

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                              |                                      |                                         |                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|---------------------------------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>CN26RE9D 001</b>                                                                                                          | <b>Auftrags-Nr.:</b><br>Order no.:   | 326128437                               | Seite 1 von 42<br>Page 1 of 42                          |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                 | 1288983                                                                                                                      | <b>Auftragsdatum:</b><br>Order date: | 2025-09-03                              |                                                         |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>IKEA of Sweden AB</b><br>Box 702, SE-343 81 Älmhult, Sweden                                                               |                                      |                                         |                                                         |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                 | LED Ceiling Lamp                                                                                                             |                                      |                                         |                                                         |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                          | T2501                                                                                                                        |                                      |                                         |                                                         |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                            | Test Report                                                                                                                  |                                      |                                         |                                                         |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC CFR47 Part 15, Subpart C Section 15.247<br>RSS-Gen Issue 5, Amendment 2, February 2021<br>RSS-247 Issue 4, July 24, 2025 |                                      |                                         |                                                         |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                | 2025-12-05                                                                                                                   | Refer to photo document.             |                                         |                                                         |
| <b>Prüfmuster-Nr.:</b><br>Test sample no:                                                                                                                                                                                                                                                                                                                                                                                                                            | A004155257-004~005<br>A004156714-001                                                                                         |                                      |                                         |                                                         |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                              | 2025-12-29 ~ 2026-01-16                                                                                                      |                                      |                                         |                                                         |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                                         | TÜV Rheinland (Shanghai)<br>Co., Ltd.                                                                                        |                                      |                                         |                                                         |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                                      | TÜV Rheinland (Shanghai)<br>Co., Ltd.                                                                                        |                                      |                                         |                                                         |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                               | Pass                                                                                                                         |                                      |                                         |                                                         |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                                    | <input checked="" type="checkbox"/> <u>Hongfei Wu</u>                                                                        |                                      | <b>genehmigt von:</b><br>authorized by: | <input checked="" type="checkbox"/> <u>Elliot Zhang</u> |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2026-02-06<br><small>Signed by: Hongfei Wu</small>                                                                           |                                      | <b>Datum:</b><br>Date:                  | 2026-02-06<br><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-T2501<br>IC: 10912A-T2501<br>HVIN: T2501<br>PMN: UNDERSEGEL<br>This report is for Thread.                        |                                      |                                         |                                                         |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br>Condition of the test item at delivery:                                                                                                                                                                                                                                                                                                                                                                      | Prüfmuster vollständig und unbeschädigt<br>Test item complete and undamaged                                                  |                                      |                                         |                                                         |
| <small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n)<br/>* Legend: P(ass) = passed a.m. test specification(s)</small>                                                                                                                                                                                                                                                                                                                                         | <small>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)<br/>F(ail) = failed a.m. test specification(s)</small>                |                                      |                                         |                                                         |
| <small>N/A = nicht anwendbar<br/>N/A = not applicable</small>                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                              |                                      |                                         |                                                         |
| <small>N/T = nicht getestet<br/>N/T = not tested</small>                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                              |                                      |                                         |                                                         |
| <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><br><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.:** CN26RE9D 001  
**Test report no.:**

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## Anmerkungen Remarks

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 4 | <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 115:2023, 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 115:2023, 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

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## 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.

Workshop 14, 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**

| Equip.    | Description                  | Model                   | Manufacturer    | Due Date   |
|-----------|------------------------------|-------------------------|-----------------|------------|
| EMC-C-196 | Wireless connectivity tester | CMW270                  | Rohde & Schwarz | 2027-08-09 |
| EMC-C-302 | Signal generator             | SMB100B (6 GHz)         | Rohde & Schwarz | 2026-11-27 |
| EMC-C-303 | Vector Signal generator      | SMW200A                 | Rohde & Schwarz | 2026-11-27 |
| EMC-C-304 | OSP                          | OSP-B157W8              | Rohde & Schwarz | 2026-12-17 |
| EMC-C-161 | Spectrum analyser            | FSV40                   | Rohde&Schwarz   | 2026-07-11 |
| EMC-C-018 | Double ridged horn antenna   | BBHA 9120 D             | Schwarzbeck     | 2026-03-24 |
| EMC-C-066 | EMI test receiver            | ESCI                    | Rohde&Schwarz   | 2026-09-28 |
| EMC-C-068 | Broadband horn antenna       | BBHA 9170               | Schwarzbeck     | 2028-06-18 |
| EMC-C-155 | BiLog antenna                | CBL 6112D               | Teseq           | 2026-09-24 |
| EMC-C-175 | Preamplifier                 | EMC051845SE             | EMCI Taiwan     | 2026-07-11 |
| EMC-C-176 | Preamplifier                 | EMC184045SE             | EMCI Taiwan     | 2026-07-11 |
| EMC-C-001 | 3 m semi-anechoic chamber    | SAC3                    | Frankonia       | 2026-12-03 |
| EMC-C-195 | EMI test receiver            | ESR3                    | Rohde&Schwarz   | 2026-08-02 |
| EMC-C-190 | Artificial mains network     | ENV432                  | Rohde&Schwarz   | 2026-09-02 |
| software  |                              |                         |                 |            |
| EMC-S-036 | RF measurement software      | WMS32-WB<br>(11.40.00)  | Rohde&Schwarz   | NA         |
| EMC-S-032 | EMI measurement software     | EMC32-E+<br>(10.60.20)  | Rohde&Schwarz   | NA         |
| EMC-S-028 | EMI measurement software     | EMC32-MEB<br>(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 an LED ceiling lamp which support Bluetooth Low Energy, Zigbee and Thread.

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

### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| General Description of EUT        |                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------|
| Product Name:                     | LED Ceiling Lamp                                                                        |
| Model No.:                        | T2501                                                                                   |
| Operation Voltage:                | AC 120V, 60Hz                                                                           |
| Test Voltage:                     | DC 3.3V for RF conducted and radiated test<br>AC 120V, 60Hz for conducted emission test |
| RF Technical:                     | 1) BLE<br>2) Zigbee<br>3) Thread                                                        |
| Technical Specification of Thread |                                                                                         |
| Frequency Range:                  | 2405~2480MHz                                                                            |
| Modulation Type:                  | OQPSK                                                                                   |
| Antenna Type:                     | PCB Antenna                                                                             |
| Antenna Gain:                     | 4.87 dBi (declared by client)                                                           |

**Table 4: Operation Channel List**

| RF Channel | Frequency [MHz] | RF Channel | Frequency [MHz] | RF Channel | Frequency [MHz] | RF Channel | Frequency [MHz] |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 11         | 2405            | 15         | 2425            | 19         | 2445            | 23         | 2465            |
| 12         | 2410            | 16         | 2430            | 20         | 2450            | 24         | 2470            |
| 13         | 2415            | 17         | 2435            | 21         | 2455            | 25         | 2475            |
| 14         | 2420            | 18         | 2440            | 22         | 2460            | 26         | 2480            |

### **3.3 Independent Operation Modes**

Test frequencies are lowest channel: 2405 MHz, middle channel: 2445 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. Thread 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 C63.10:2020 and ANSI C63.10-2020+COR. 1-2023+C63.10A-2024+ERRATA TO C63.10A-2024.

Test Software: sscom 5.13.1

**Table 5: Power parameter value**

| Mode   | Power Parameter Setting Value |
|--------|-------------------------------|
| Thread | 50                            |

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Special Accessories**

| Accessories                                       | Parameter         |
|---------------------------------------------------|-------------------|
| RF Cable between the antenna port and test system | Cable loss: 0.5dB |

Note: The RF cable used in the test was provided by

- ☒ Client  
☐ Test Lab

And the cable loss has been factored in the related test.

**Table 7: Auxiliary Equipment**

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

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## **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 PCB antenna, the directional gain of antenna is 4.87 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 8: 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:                                                                               | PCB 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 PCB 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                                                                                                                                                                                                                           |  |

**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:                                 | PCB Antenna |
| b) Manufacture:                                  | N/A         |
| c) Model No.:                                    | N/A         |
| d) Gain with reference to an isotropic radiator: | 4.87 dBi    |

**Verdict:** PASS

**5.1.2 6dB & 99% Bandwidth****RESULT:****Pass**

|                      |   |                                                                                                                                     |
|----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2025-12-29                                                                                                                          |
| Ambient temperature  | : | 20.3°C                                                                                                                              |
| Relative humidity    | : | 32.4%                                                                                                                               |
| Atmospheric pressure | : | 101kPa                                                                                                                              |
| Test requirement     | : | FCC Part 15.247(a)(2)<br>RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 6.7 |
| Test procedure       | : | ANSI C63.10:2020<br>ANSI C63.10-2020+COR. 1-2023+C63.10A-2024+ERRATA TO C63.10A-2024                                                |
| Test voltage         | : | DC 3.3V                                                                                                                             |
| Test modes applied   | : | A                                                                                                                                   |

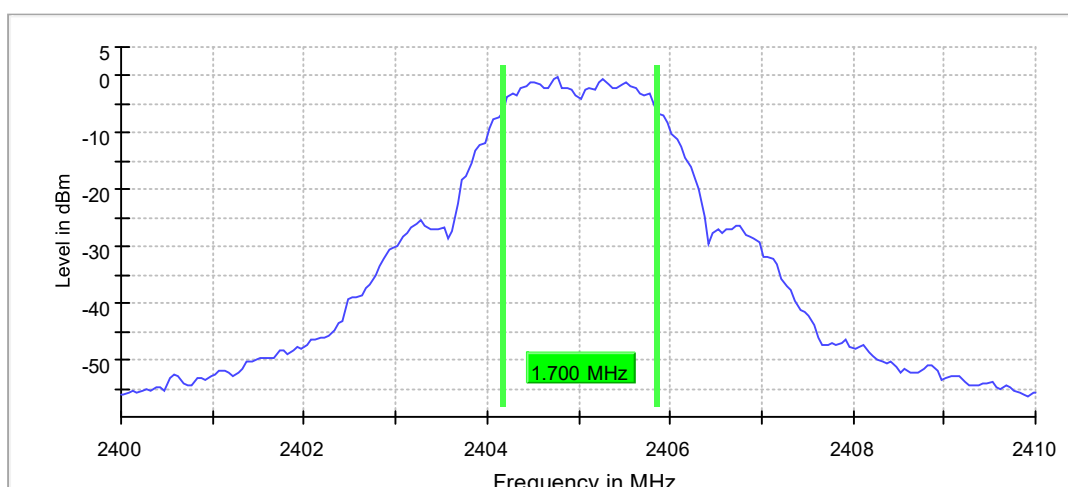
**6dB Bandwidth, 2405MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2405.000000         | 1.700000        | 0.500000        | ---             | 2404.175000          | 2405.875000           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2405.000000         | -0.3            | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz   |
| Stop Frequency        | 2.41000 GHz      | 2.41000 GHz   |
| Span                  | 10.000 MHz       | 10.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 200              | ~ 200         |
| Sweptime              | 37.969 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           | 0.50 dB          | 0.50 dB       |
| Run                   | 24 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.25 dB          | 0.50 dB       |

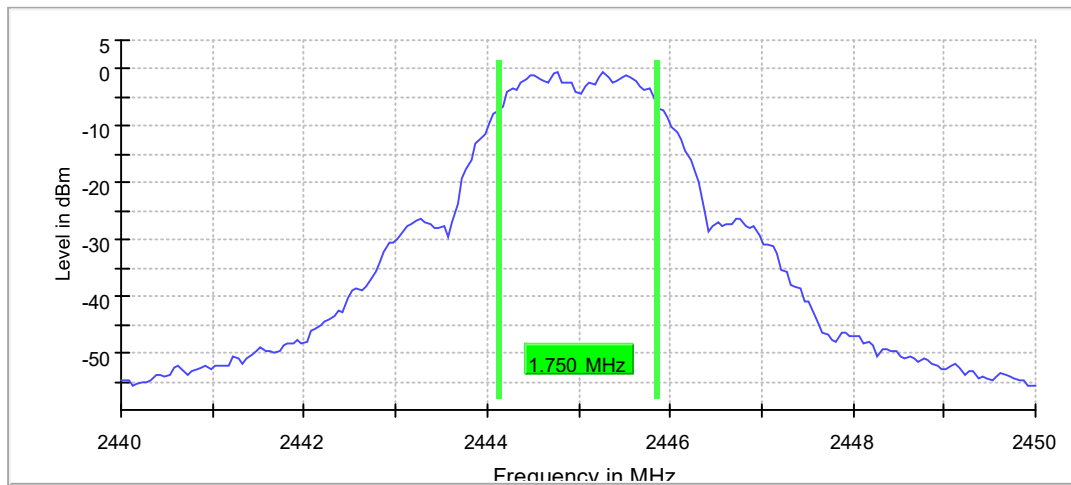
**6dB Bandwidth, 2445MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2445.000000         | 1.750000        | 0.500000        | ---             | 2444.125000          | 2445.875000           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2445.000000         | -0.6            | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz   |
| Stop Frequency        | 2.45000 GHz      | 2.45000 GHz   |
| Span                  | 10.000 MHz       | 10.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 200              | ~ 200         |
| Sweeptime             | 37.969 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          |
| Preamplifier          | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 22 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.04 dB          | 0.50 dB       |

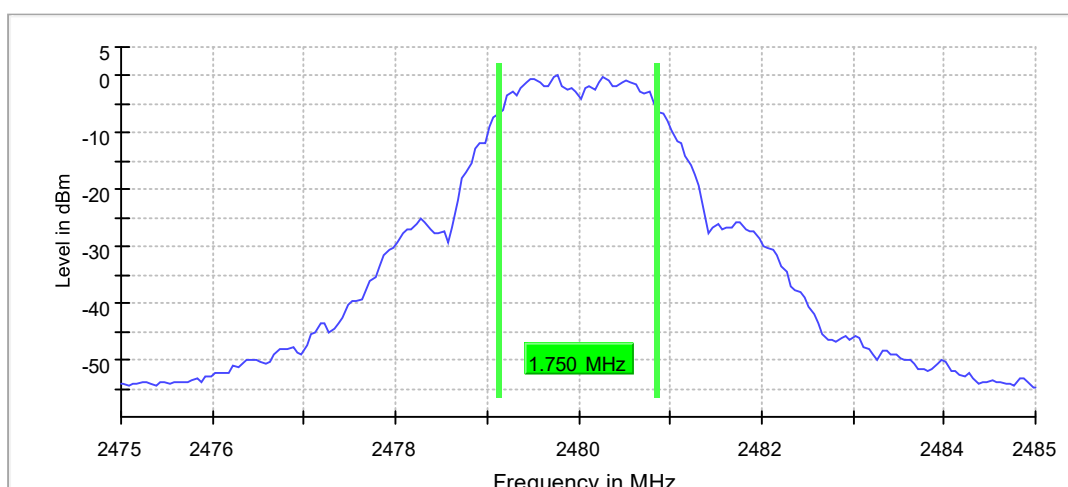
**6dB Bandwidth, 2480MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 1.750000        | 0.500000        | ---             | 2479.125000          | 2480.875000           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000         | 0.0             | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47500 GHz      | 2.47500 GHz   |
| Stop Frequency        | 2.48500 GHz      | 2.48500 GHz   |
| Span                  | 10.000 MHz       | 10.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 200              | ~ 200         |
| Sweeptime             | 37.969 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           | 0.50 dB          | 0.50 dB       |
| Run                   | 17 / max. 150    | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.30 dB          | 0.50 dB       |

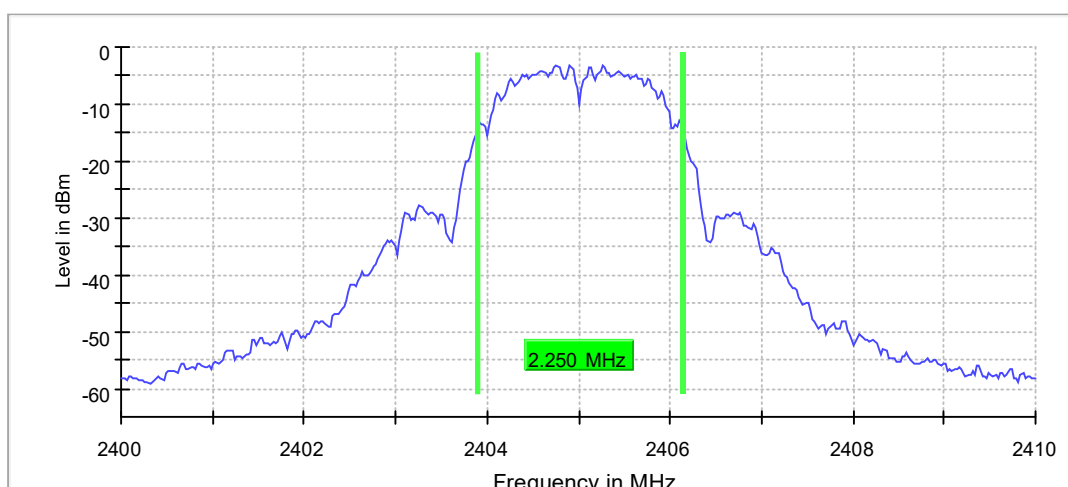
**99% Occupied Channel Bandwidth, 2405MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2405.000000         | 2.250000        | ---             | ---             | 2403.887500          | 2406.137500           |

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

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2405.000000         | PASS   |

99 % Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.41000 GHz      | 2.41000 GHz    |
| Span                  | 10.000 MHz       | 10.000 MHz     |
| RBW                   | 50.000 kHz       | >= 50.000 kHz  |
| VBW                   | 200.000 kHz      | >= 150.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 75.781 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                   | 23 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.07 dB          | 0.30 dB        |

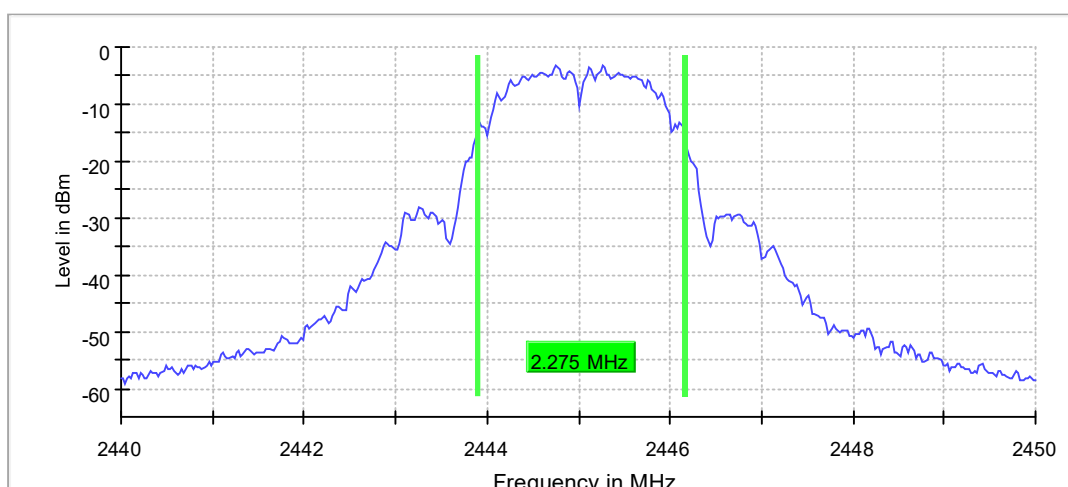
**99% Occupied Channel Bandwidth, 2445MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2445.000000         | 2.275000        | ---             | ---             | 2443.887500          | 2446.162500           |

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

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2445.000000         | PASS   |

99 % Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44000 GHz      | 2.44000 GHz    |
| Stop Frequency        | 2.45000 GHz      | 2.45000 GHz    |
| Span                  | 10.000 MHz       | 10.000 MHz     |
| RBW                   | 50.000 kHz       | >= 50.000 kHz  |
| VBW                   | 200.000 kHz      | >= 150.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 75.781 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                   | 21 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.10 dB          | 0.30 dB        |

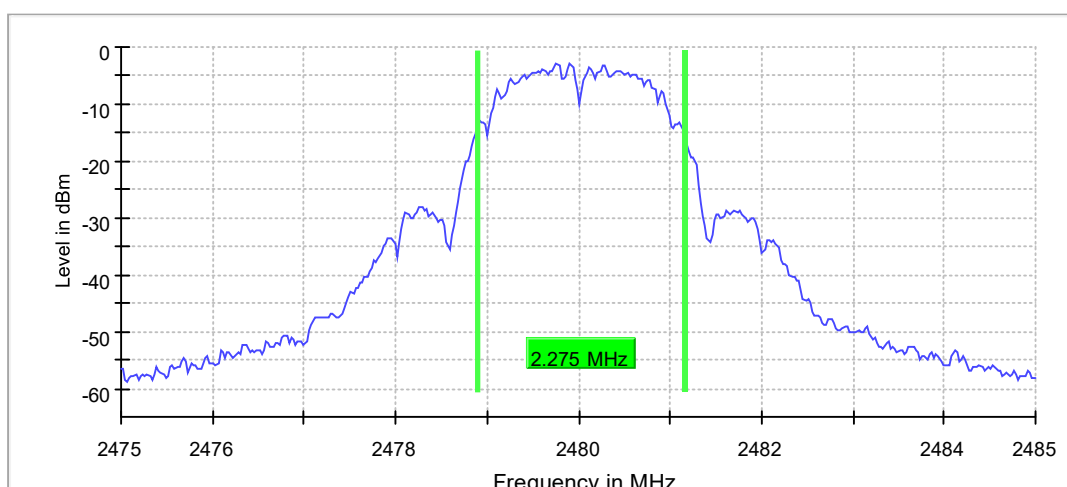
**99% Occupied Channel Bandwidth, 2480MHz**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 2.275000        | ---             | ---             | 2478.887500          | 2481.162500           |

(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       | 2.47500 GHz      | 2.47500 GHz    |
| Stop Frequency        | 2.48500 GHz      | 2.48500 GHz    |
| Span                  | 10.000 MHz       | 10.000 MHz     |
| RBW                   | 50.000 kHz       | >= 50.000 kHz  |
| VBW                   | 200.000 kHz      | >= 150.000 kHz |
| SweepPoints           | 400              | ~ 400          |
| Sweeptime             | 75.781 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                   | 12 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.08 dB          | 0.30 dB        |

### 5.1.3 Output Power

**RESULT:****Pass**

Date of testing : 2025-12-29  
Ambient temperature : 20.1°C  
Relative humidity : 32.5%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(b)(3)  
RSS-247 Issue 4, July 24, 2025, Clause 6.3.2  
Test procedure : ANSI C63.10:2020  
ANSI C63.10-2020+COR. 1-2023+C63.10A-  
2024+ERRATA TO C63.10A-2024  
Test voltage : DC 3.3V  
Test modes applied : A

**Table 9: Peak Output Power**

| Frequency<br>[MHz] | Peak Conducted Output Power<br>[dBm] | Limit<br>[dBm] |
|--------------------|--------------------------------------|----------------|
| 2405               | 5.1                                  | 30             |
| 2445               | 4.9                                  | 30             |
| 2480               | 5.0                                  | 30             |

**Note:**

EIRP=Conducted Output Power + Antenna Gain (4.87dBi), which is far below the 4 W (36dBm).

### 5.1.4 Power Spectral Density

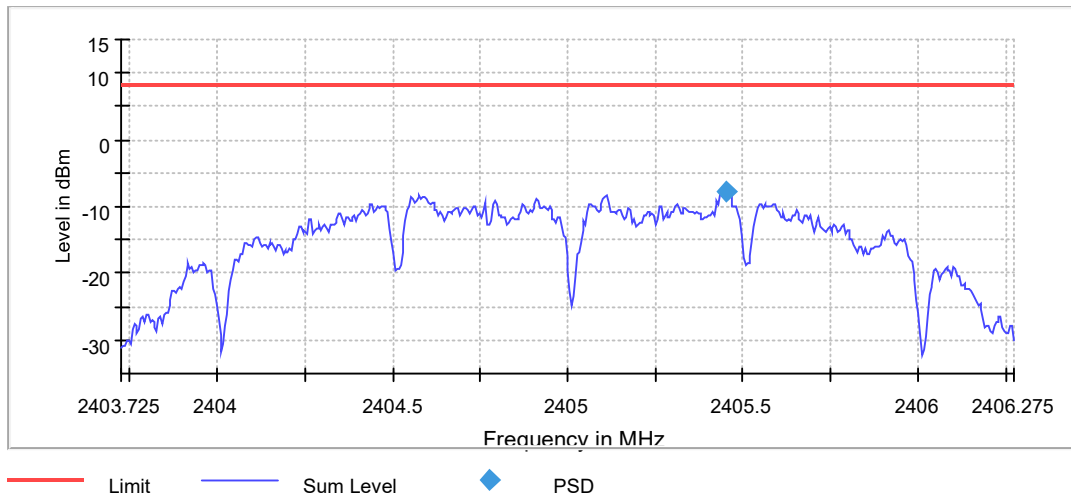
**RESULT:****Pass**

|                      |   |                                                                                          |
|----------------------|---|------------------------------------------------------------------------------------------|
| Date of testing      | : | 2025-12-29                                                                               |
| Ambient temperature  | : | 20.5°C                                                                                   |
| Relative humidity    | : | 32.8%                                                                                    |
| Atmospheric pressure | : | 101kPa                                                                                   |
| Test requirement     | : | FCC Part 15.247(e)<br>RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(b)                    |
| Test procedure       | : | ANSI C63.10:2020<br>ANSI C63.10-2020+COR. 1-2023+C63.10A-<br>2024+ERRATA TO C63.10A-2024 |
| Test voltage         | : | DC 3.3V                                                                                  |
| Test modes applied   | : | A                                                                                        |

**Power Spectral Density, 2405MHz**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2405.000000         | 2405.452500     | -7.735    | 8.0             | PASS   |

Peak Power Spectral Density

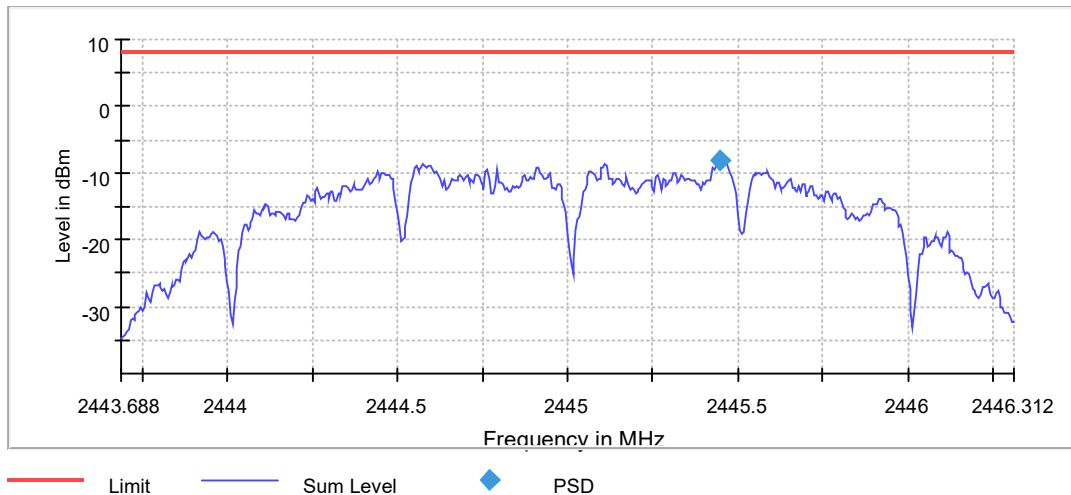

**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40373 GHz      | 2.40373 GHz   |
| Stop Frequency        | 2.40628 GHz      | 2.40628 GHz   |
| Span                  | 2.550 MHz        | 2.550 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 510              | ~ 510         |
| Sweeptime             | 2.550 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                   | 12 / max. 150    | max. 150      |
| Stable                | 2 / 2            | 2             |
| Max Stable Difference | 0.27 dB          | 0.50 dB       |

**Power Spectral Density, 2445MHz**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2445.000000         | 2445.450000     | -7.995    | 8.0             | PASS   |

Peak Power Spectral Density

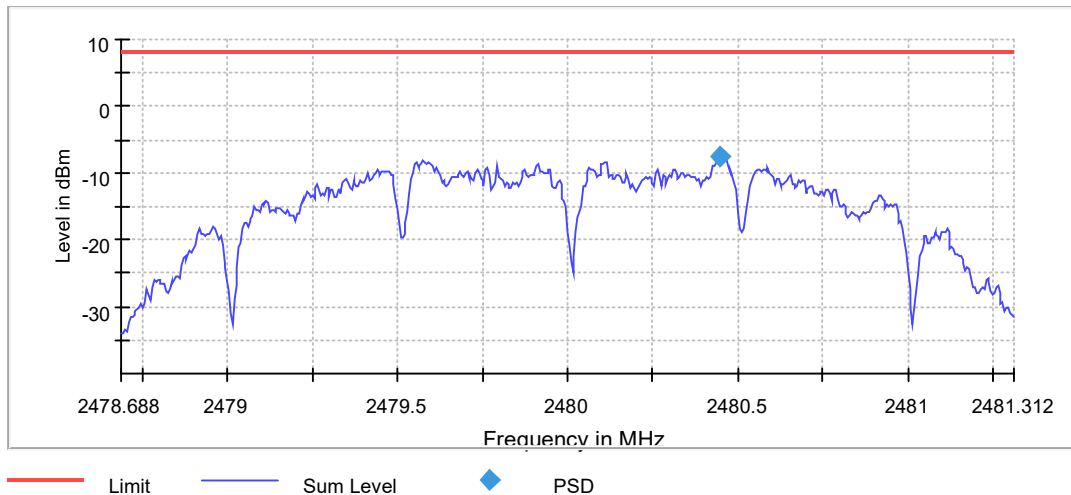

**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44369 GHz      | 2.44369 GHz   |
| Stop Frequency        | 2.44631 GHz      | 2.44631 GHz   |
| Span                  | 2.625 MHz        | 2.625 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 525              | ~ 525         |
| SweepTime             | 2.630 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                   | 12 / max. 150    | max. 150      |
| Stable                | 2 / 2            | 2             |
| Max Stable Difference | 0.37 dB          | 0.50 dB       |

**Power Spectral Density, 2480MHz**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2480.000000         | 2480.450000     | -7.464    | 8.0             | PASS   |

Peak Power Spectral Density


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47869 GHz      | 2.47869 GHz   |
| Stop Frequency        | 2.48131 GHz      | 2.48131 GHz   |
| Span                  | 2.625 MHz        | 2.625 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 525              | ~ 525         |
| Sweptime              | 2.630 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                   | 9 / max. 150     | max. 150      |
| Stable                | 2 / 2            | 2             |
| Max Stable Difference | 0.50 dB          | 0.50 dB       |

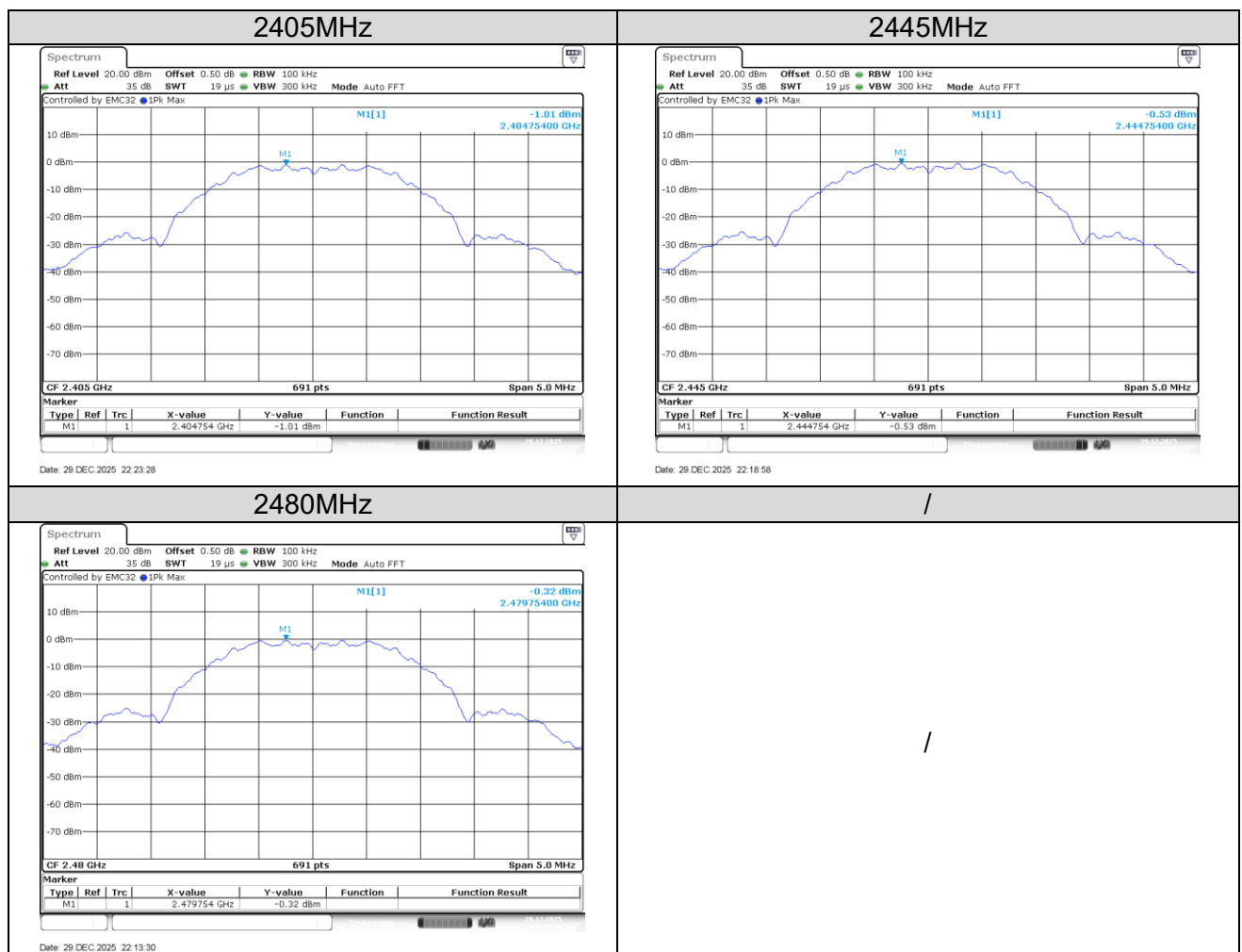
### 5.1.5 Conducted Band Edge and out-of Band Emissions

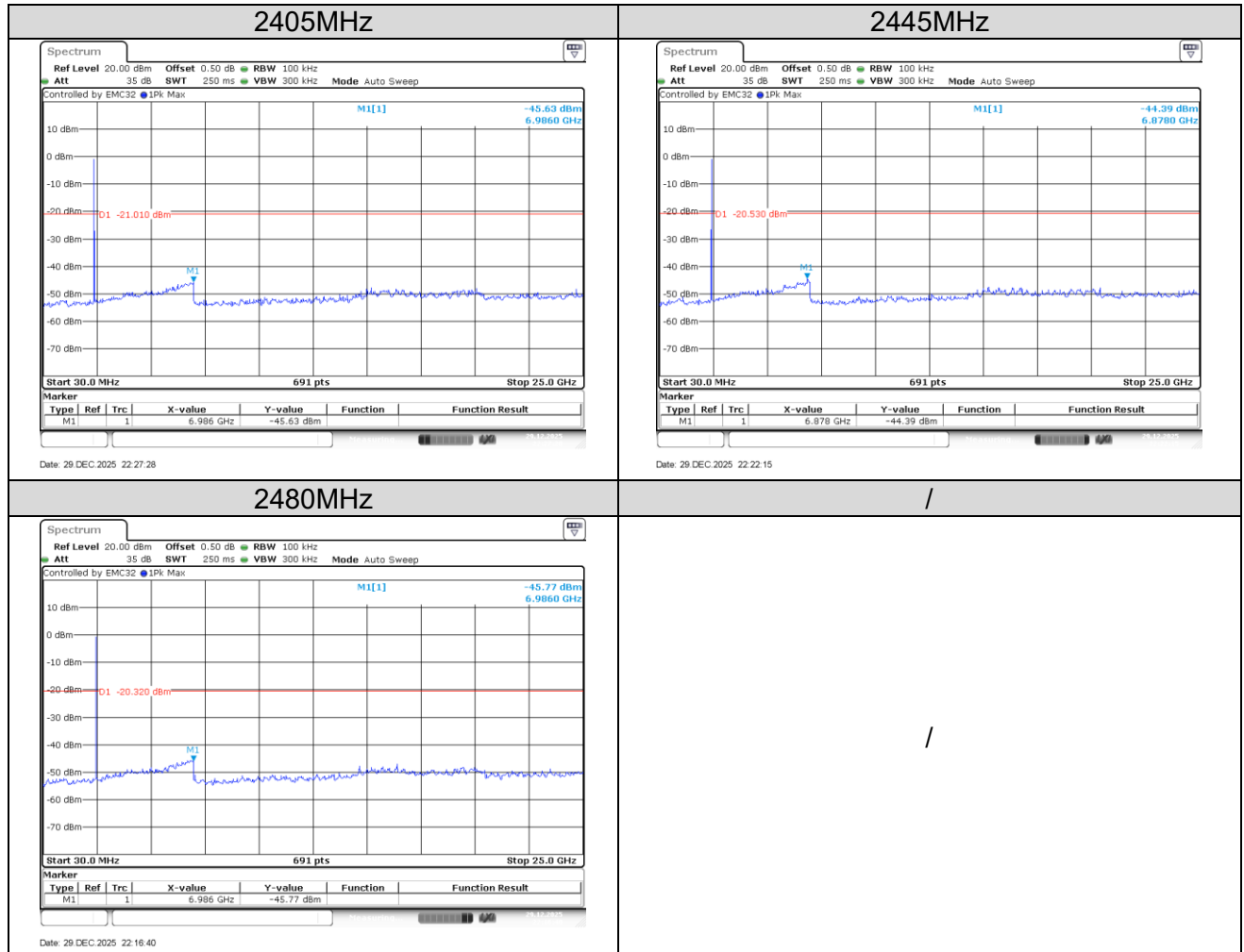
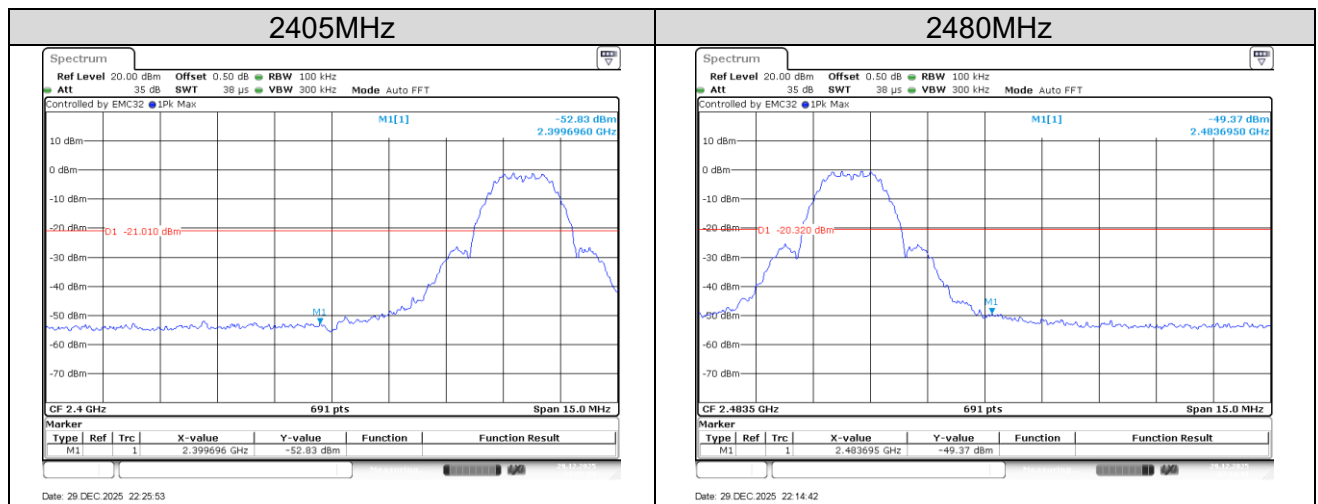
**RESULT:**

## Pass

|                      |   |                                                                                          |
|----------------------|---|------------------------------------------------------------------------------------------|
| Date of testing      | : | 2025-12-29                                                                               |
| Ambient temperature  | : | 20.3°C                                                                                   |
| Relative humidity    | : | 32.5%                                                                                    |
| Atmospheric pressure | : | 101kPa                                                                                   |
| Test requirement     | : | FCC Part 15.247(d)<br>RSS-247 Issue 4, July 24, 2025, Clause 6.6                         |
| Test procedure       | : | ANSI C63.10:2020<br>ANSI C63.10-2020+COR. 1-2023+C63.10A-<br>2024+ERRATA TO C63.10A-2024 |
| Test voltage         | : | DC 3.3V                                                                                  |
| Test modes applied   | : | A                                                                                        |

### Figure 1: Reference level



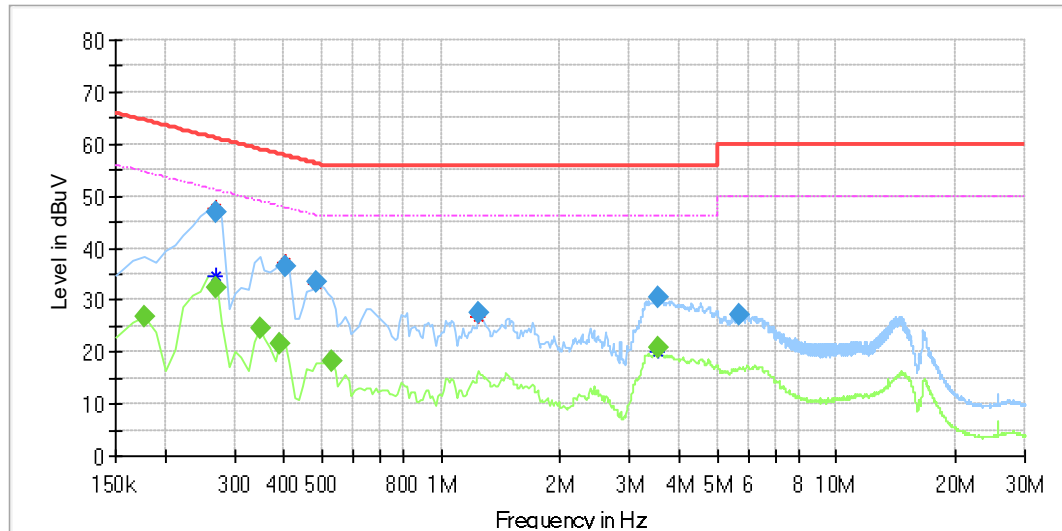
**Figure 2: Conducted Spurious Emission**

**Figure 3: Conducted Band Edge**


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

### 5.2.1 Conducted Emission

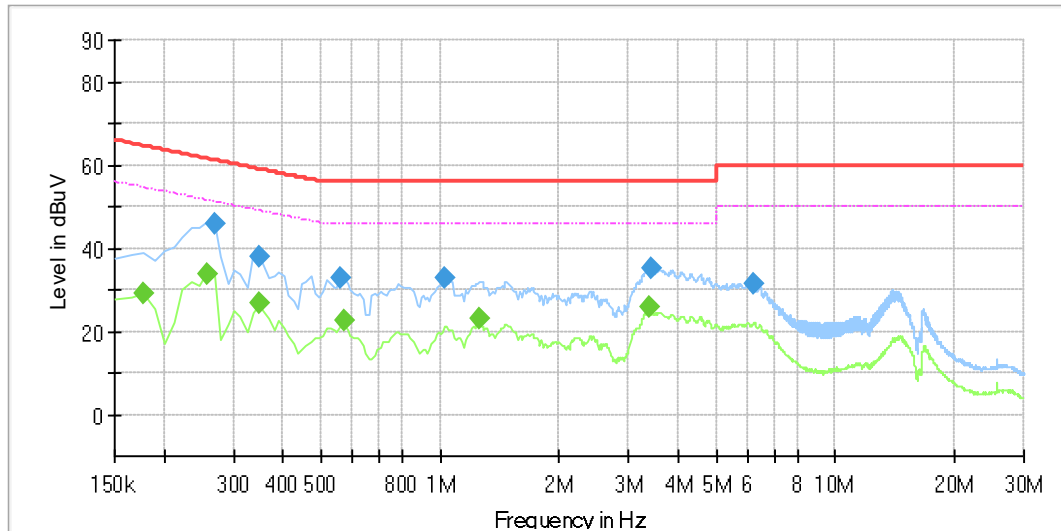
**RESULT:****Pass**

|                      |   |                                                                                          |
|----------------------|---|------------------------------------------------------------------------------------------|
| Date of testing      | : | 2026-01-05                                                                               |
| Ambient temperature  | : | 24.6°C                                                                                   |
| Relative humidity    | : | 43.4%                                                                                    |
| Atmospheric pressure | : | 101kPa                                                                                   |
| Test requirement     | : | FCC Part 15.207 (a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause<br>8.8        |
| Test procedure       | : | ANSI C63.10:2020<br>ANSI C63.10-2020+COR. 1-2023+C63.10A-<br>2024+ERRATA TO C63.10A-2024 |
| 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 |
|-----------------|------------------|-----------------|--------------|-------------|------|
| 0.178125        | ---              | 26.76           | 54.57        | 27.82       | L1   |
| 0.268125        | ---              | 32.41           | 51.18        | 18.76       | L1   |
| 0.268125        | 46.97            | ---             | 61.18        | 14.21       | L1   |
| 0.346875        | ---              | 24.62           | 49.04        | 24.42       | L1   |
| 0.391875        | ---              | 21.58           | 48.02        | 26.44       | L1   |
| 0.403125        | 36.39            | ---             | 57.79        | 21.39       | L1   |
| 0.481875        | 33.33            | ---             | 56.31        | 22.98       | L1   |
| 0.526875        | ---              | 18.19           | 46.00        | 27.81       | L1   |
| 1.246875        | 27.39            | ---             | 56.00        | 28.61       | L1   |
| 3.519375        | 30.49            | ---             | 56.00        | 25.51       | L1   |
| 3.519375        | ---              | 20.94           | 46.00        | 25.06       | L1   |
| 5.679375        | 27.03            | ---             | 60.00        | 32.97       | L1   |

**Figure 5: Conducted Emission, N**

**Final Result**

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line |
|-----------------|------------------|-----------------|--------------|-------------|------|
| 0.178125        | ---              | 28.86           | 54.57        | 25.71       | N    |
| 0.256875        | ---              | 33.78           | 51.53        | 17.75       | N    |
| 0.268125        | 45.85            | ---             | 61.18        | 15.33       | N    |
| 0.346875        | ---              | 26.83           | 49.04        | 22.21       | N    |
| 0.346875        | 37.87            | ---             | 59.04        | 21.17       | N    |
| 0.560625        | 32.76            | ---             | 56.00        | 23.24       | N    |
| 0.571875        | ---              | 22.36           | 46.00        | 23.64       | N    |
| 1.021875        | 32.85            | ---             | 56.00        | 23.15       | N    |
| 1.258125        | ---              | 23.09           | 46.00        | 22.91       | N    |
| 3.373125        | ---              | 25.58           | 46.00        | 20.42       | N    |
| 3.418125        | 34.92            | ---             | 56.00        | 21.08       | N    |
| 6.208125        | 31.62            | ---             | 60.00        | 28.38       | N    |

## 5.3 Emission in the Frequency Range above 30MHz

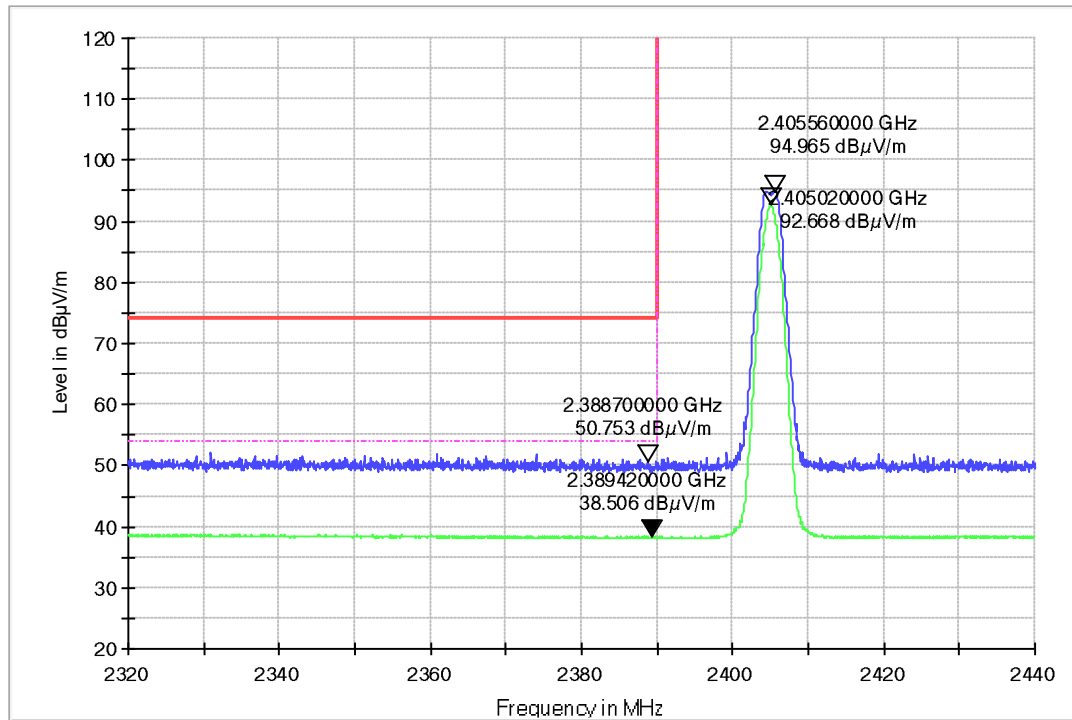
### 5.3.1 Radiated Band-Edge

**RESULT:****Pass**

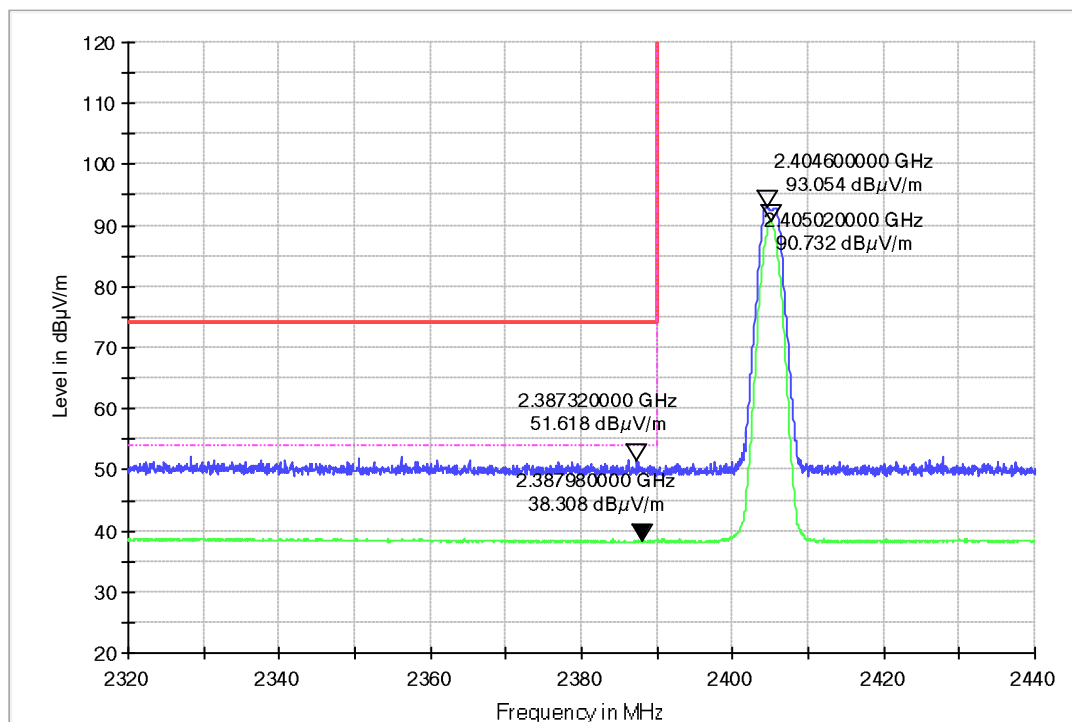
|                      |   |                                                                                                                                                                                                                                     |
|----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2026-01-15                                                                                                                                                                                                                          |
| Ambient temperature  | : | 21.6°C                                                                                                                                                                                                                              |
| Relative humidity    | : | 35.1%                                                                                                                                                                                                                               |
| Atmospheric pressure | : | 101kPa                                                                                                                                                                                                                              |
| Test requirement     | : | FCC Part 15.247(d)<br>FCC Part 15.205(a)<br>FCC Part 15.209(a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10<br>RSS-247 Issue 4, July 24, 2025, Clause 6.6 |
| Test procedure       | : | ANSI C63.10:2020<br>ANSI C63.10-2020+COR. 1-2023+C63.10A-<br>2024+ERRATA TO C63.10A-2024                                                                                                                                            |
| Test voltage         | : | DC 3.3V                                                                                                                                                                                                                             |
| Test modes applied   | : | A                                                                                                                                                                                                                                   |

**Figure 6: Radiated Band-Edge, 2405MHz, H**

XXY- 2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

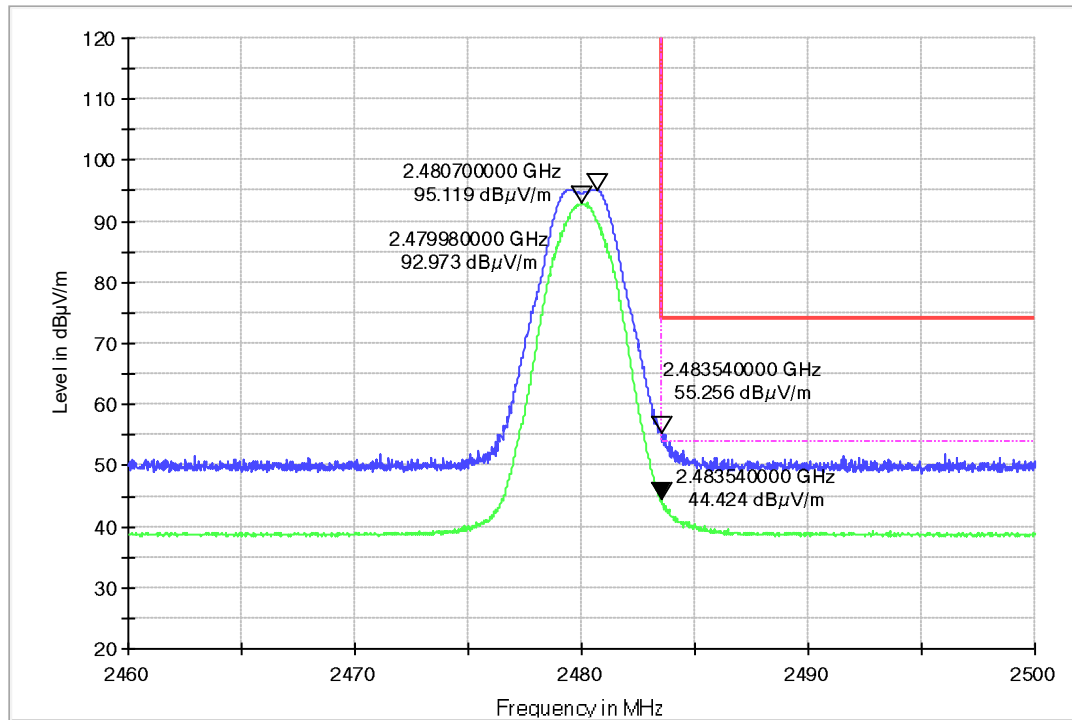

**Figure 7: Radiated Band-Edge, 2405MHz, V**

XXY- 2310~ 2410 BE 1-18GHz\_HL050\_FSV40\_Pre-10-YUNFANG

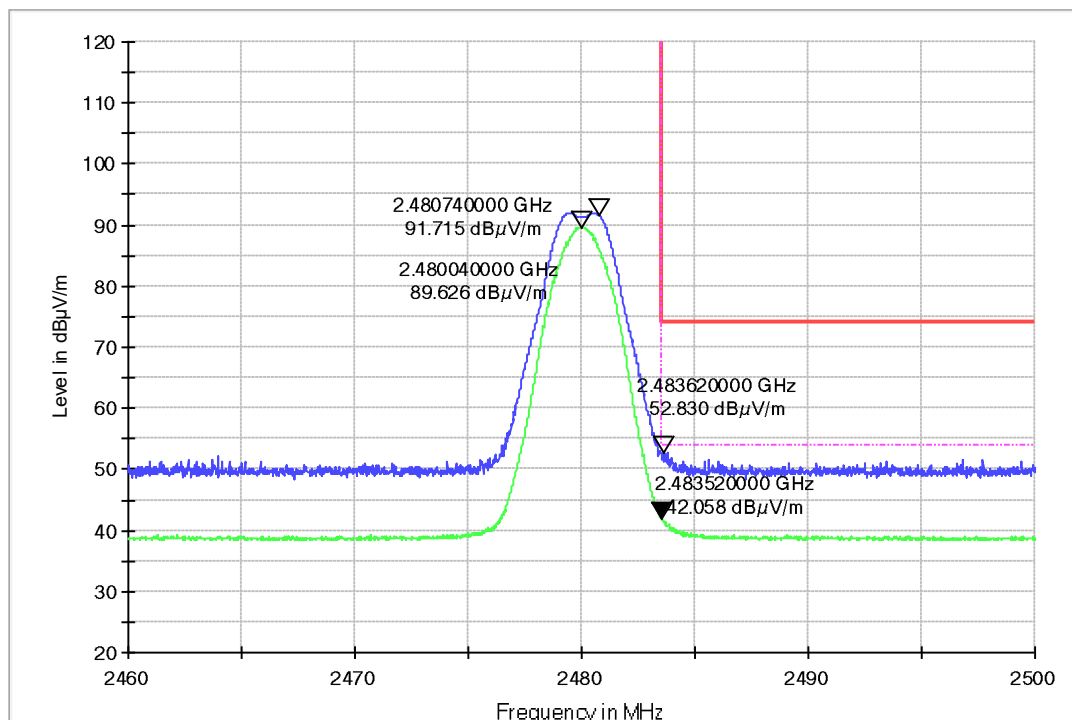


**Figure 8: Radiated Band-Edge, 2480MHz, H**

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


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

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

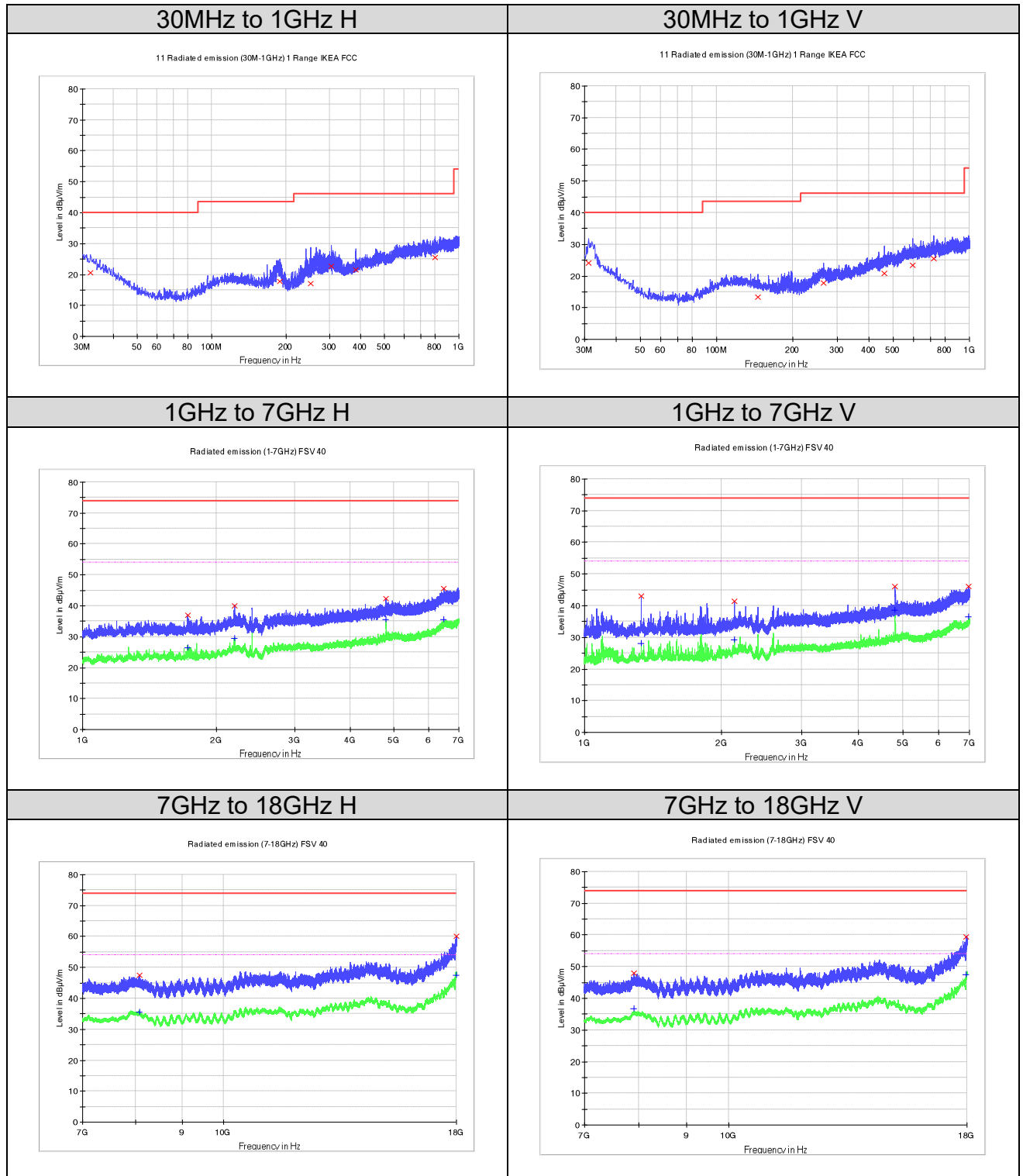


**5.3.2 Radiated Spurious Emission****RESULT:****Pass**

|                      |   |                                                                                                                                                   |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2026-01-16                                                                                                                                        |
| Ambient temperature  | : | 21.4°C                                                                                                                                            |
| Relative humidity    | : | 35.3%                                                                                                                                             |
| Atmospheric pressure | : | 101kPa                                                                                                                                            |
| Test requirement     | : | FCC Part 15.247(d)<br>FCC Part 15.209(a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9<br>RSS-247 Issue 4, July 24, 2025, Clause 6.6 |
| Test procedure       | : | ANSI C63.10-2020+COR. 1-2023+C63.10A-<br>2024+ERRATA TO C63.10A-2024                                                                              |
| Test voltage         | : | DC 3.3V                                                                                                                                           |
| Test modes applied   | : | A                                                                                                                                                 |

**Note:**

For the frequency range from 18GHz to 25GHz, no emission was found.

**Figure 10: Radiated Spurious Emission, 2405MHz**


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

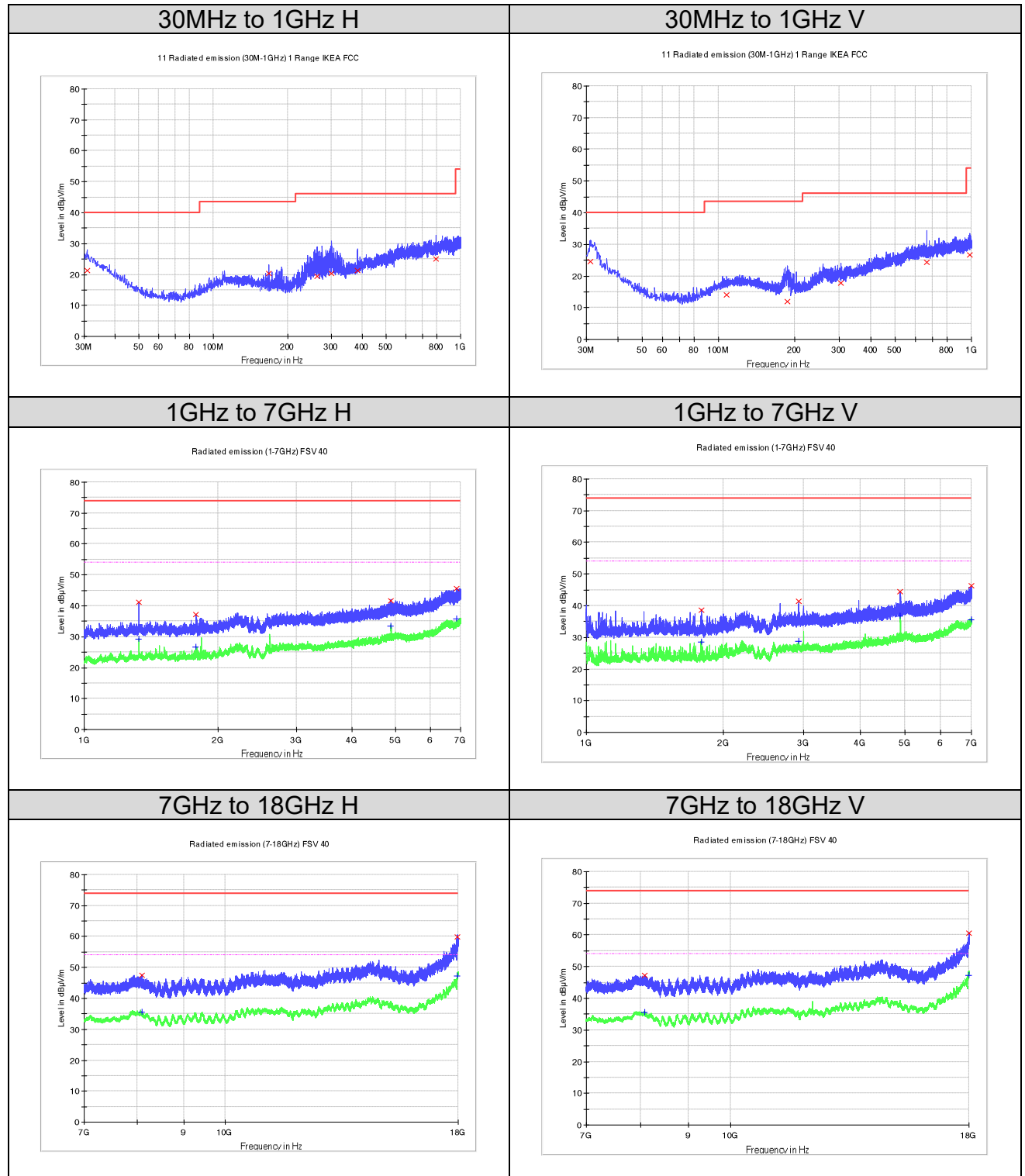
| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 32.182500       | 20.5               | H   | 24.2         | 19.5              | 40.0                 |
| 187.988750      | 17.8               | H   | 15.8         | 25.7              | 43.5                 |
| 251.766250      | 17.2               | H   | 19.5         | 28.8              | 46.0                 |
| 305.116250      | 22.6               | H   | 20.5         | 23.4              | 46.0                 |
| 384.171250      | 21.5               | H   | 22.4         | 24.5              | 46.0                 |
| 799.452500      | 25.5               | H   | 28.0         | 20.5              | 46.0                 |
| 31.091250       | 24.1               | V   | 24.8         | 15.9              | 40.0                 |
| 145.187500      | 13.5               | V   | 17.5         | 30.1              | 43.5                 |
| 264.497500      | 17.7               | V   | 21.4         | 28.3              | 46.0                 |
| 460.558750      | 20.9               | V   | 24.5         | 25.1              | 46.0                 |
| 598.298750      | 23.4               | V   | 26.4         | 22.6              | 46.0                 |
| 722.095000      | 25.5               | V   | 28.5         | 20.5              | 46.0                 |

**PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1725.454546     | 36.9             | H   | -18.8        | 37.1              | 74.0                 |
| 2192.090909     | 40.0             | H   | -15.8        | 34.0              | 74.0                 |
| 4811.363636     | 42.3             | H   | -11.2        | 31.7              | 74.0                 |
| 6488.363636     | 45.5             | H   | -7.4         | 28.5              | 74.0                 |
| 8077.312500     | 47.5             | H   | -3.7         | 26.5              | 74.0                 |
| 17994.843750    | 60.2             | H   | 12.0         | 13.8              | 74.0                 |
| 1331.636364     | 43.1             | V   | -18.7        | 30.9              | 74.0                 |
| 2131.545455     | 41.3             | V   | -16.4        | 32.7              | 74.0                 |
| 4808.636364     | 46.1             | V   | -11.2        | 27.9              | 74.0                 |
| 6985.272727     | 46.1             | V   | -6.3         | 27.9              | 74.0                 |
| 7909.562500     | 47.9             | V   | -3.7         | 26.1              | 74.0                 |
| 17979.718750    | 59.4             | V   | 11.8         | 14.6              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1725.454546     | 26.5             | H   | -18.8        | 27.6              | 54.0                 |
| 2192.090909     | 29.4             | H   | -15.8        | 24.6              | 54.0                 |
| 4811.363636     | 35.6             | H   | -11.2        | 18.4              | 54.0                 |
| 6488.363636     | 35.6             | H   | -7.4         | 18.4              | 54.0                 |
| 8077.312500     | 35.6             | H   | -3.7         | 18.4              | 54.0                 |
| 17994.843750    | 47.5             | H   | 12.0         | 6.5               | 54.0                 |
| 1331.636364     | 28.0             | V   | -18.7        | 26.0              | 54.0                 |
| 2131.545455     | 29.2             | V   | -16.4        | 24.8              | 54.0                 |
| 4808.636364     | 38.6             | V   | -11.2        | 15.4              | 54.0                 |
| 6985.272727     | 36.4             | V   | -6.3         | 17.6              | 54.0                 |
| 7909.562500     | 36.7             | V   | -3.7         | 17.3              | 54.0                 |
| 17979.718750    | 47.5             | V   | 11.8         | 6.5               | 54.0                 |

**Figure 11: Radiated Spurious Emission, 2445MHz**


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

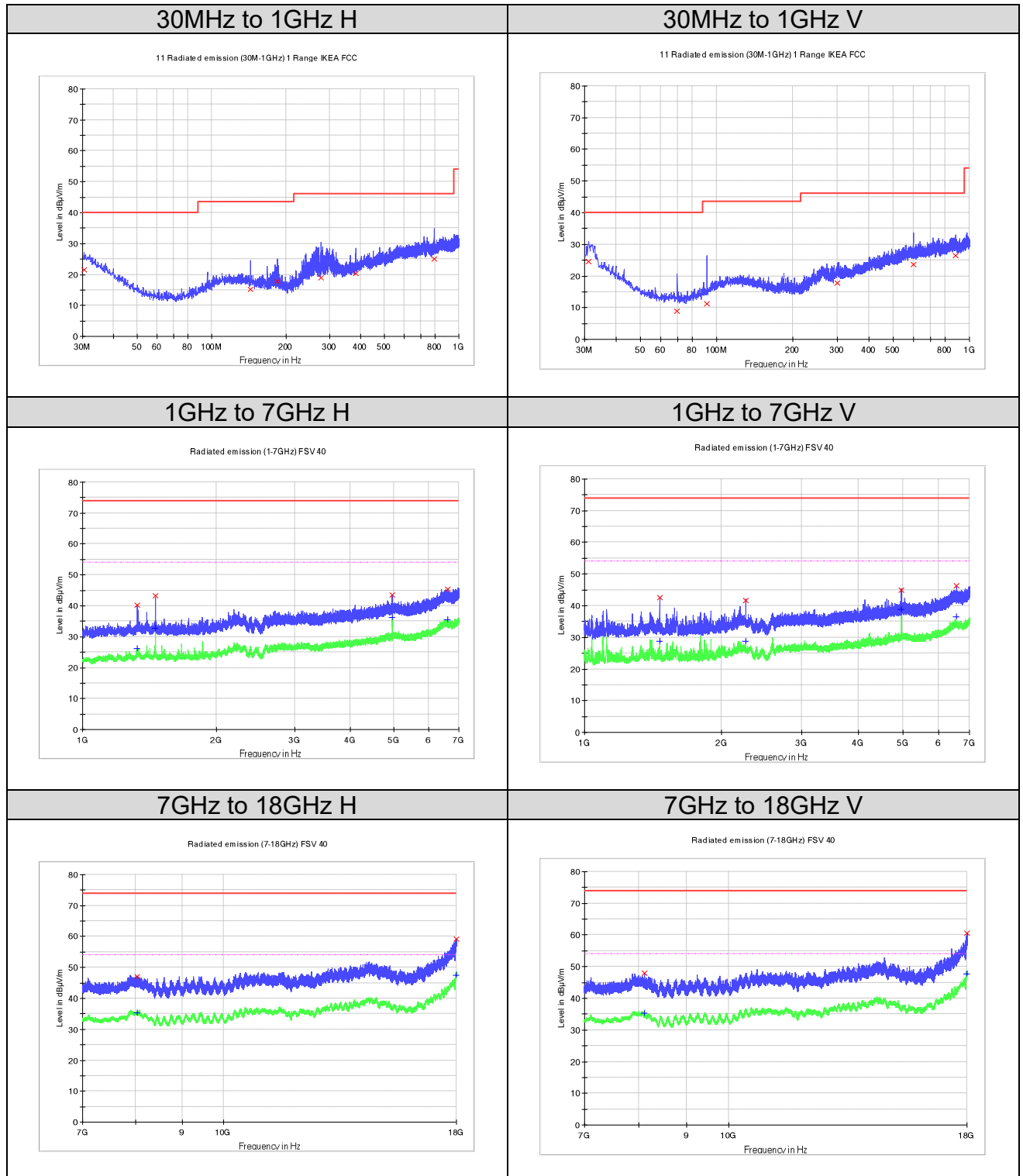
| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 30.848750       | 21.3               | H   | 25.0         | 18.7              | 40.0                 |
| 167.982500      | 20.5               | H   | 16.4         | 23.1              | 43.5                 |
| 263.163750      | 19.5               | H   | 21.5         | 26.5              | 46.0                 |
| 301.236250      | 20.3               | H   | 20.9         | 25.7              | 46.0                 |
| 384.171250      | 21.3               | H   | 22.4         | 24.7              | 46.0                 |
| 798.118750      | 25.1               | H   | 28.0         | 21.0              | 46.0                 |
| 31.212500       | 24.5               | V   | 24.8         | 15.5              | 40.0                 |
| 107.963750      | 14.0               | V   | 18.4         | 29.5              | 43.5                 |
| 186.776250      | 12.0               | V   | 15.9         | 31.5              | 43.5                 |
| 303.903750      | 17.9               | V   | 20.6         | 28.2              | 46.0                 |
| 665.713750      | 24.3               | V   | 26.6         | 21.7              | 46.0                 |
| 982.661250      | 26.7               | V   | 29.7         | 27.3              | 54.0                 |

**PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1327.272727     | 41.1             | H   | -18.7        | 32.9              | 74.0                 |
| 1779.454546     | 37.2             | H   | -18.8        | 36.8              | 74.0                 |
| 4889.090909     | 41.7             | H   | -11.1        | 32.3              | 74.0                 |
| 6867.454546     | 45.7             | H   | -7.4         | 28.3              | 74.0                 |
| 8107.218750     | 47.5             | H   | -4.0         | 26.5              | 74.0                 |
| 17973.187500    | 59.9             | H   | 11.7         | 14.1              | 74.0                 |
| 1787.090909     | 38.7             | V   | -18.8        | 35.3              | 74.0                 |
| 2927.636364     | 41.3             | V   | -15.1        | 32.7              | 74.0                 |
| 4889.363636     | 44.3             | V   | -11.1        | 29.7              | 74.0                 |
| 6994.000000     | 46.2             | V   | -6.2         | 27.8              | 74.0                 |
| 8082.812500     | 47.3             | V   | -3.8         | 26.7              | 74.0                 |
| 17986.593750    | 60.7             | V   | 11.9         | 13.3              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1327.272727     | 29.3             | H   | -18.7        | 24.7              | 54.0                 |
| 1779.454546     | 26.8             | H   | -18.8        | 27.2              | 54.0                 |
| 4889.090909     | 33.5             | H   | -11.1        | 20.5              | 54.0                 |
| 6867.454546     | 35.8             | H   | -7.4         | 18.2              | 54.0                 |
| 8107.218750     | 35.6             | H   | -4.0         | 18.4              | 54.0                 |
| 17973.187500    | 47.3             | H   | 11.7         | 6.8               | 54.0                 |
| 1787.090909     | 28.5             | V   | -18.8        | 25.5              | 54.0                 |
| 2927.636364     | 28.8             | V   | -15.1        | 25.2              | 54.0                 |
| 4889.363636     | 36.8             | V   | -11.1        | 17.2              | 54.0                 |
| 6994.000000     | 35.5             | V   | -6.2         | 18.6              | 54.0                 |
| 8082.812500     | 35.6             | V   | -3.8         | 18.4              | 54.0                 |
| 17986.593750    | 47.4             | V   | 11.9         | 6.6               | 54.0                 |

**Figure 12: Radiated Spurious Emission, 2480MHz**


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

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 30.363750       | 21.5               | H   | 25.2         | 18.5              | 40.0                 |
| 143.853750      | 15.2               | H   | 17.7         | 28.3              | 43.5                 |
| 184.957500      | 17.8               | H   | 15.9         | 25.7              | 43.5                 |
| 276.622500      | 19.0               | H   | 19.8         | 27.0              | 46.0                 |
| 383.807500      | 20.4               | H   | 22.4         | 25.6              | 46.0                 |
| 798.118750      | 25.1               | H   | 28.0         | 20.9              | 46.0                 |
| 31.212500       | 24.5               | V   | 24.8         | 15.5              | 40.0                 |
| 69.770000       | 9.0                | V   | 12.8         | 31.0              | 40.0                 |
| 91.473750       | 11.2               | V   | 15.6         | 32.3              | 43.5                 |
| 299.902500      | 17.8               | V   | 20.8         | 28.2              | 46.0                 |
| 598.783750      | 23.5               | V   | 26.4         | 22.5              | 46.0                 |
| 885.176250      | 26.3               | V   | 29.3         | 19.7              | 46.0                 |

**PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1328.909091     | 40.3             | H   | -18.7        | 33.7              | 74.0                 |
| 1460.363636     | 43.3             | H   | -18.6        | 30.7              | 74.0                 |
| 4958.909091     | 43.6             | H   | -11.0        | 30.4              | 74.0                 |
| 6596.363636     | 45.5             | H   | -7.4         | 28.5              | 74.0                 |
| 8032.625000     | 47.1             | H   | -3.4         | 26.9              | 74.0                 |
| 17985.906250    | 59.3             | H   | 11.9         | 14.8              | 74.0                 |
| 1460.909091     | 42.6             | V   | -18.6        | 31.4              | 74.0                 |
| 2258.909091     | 41.7             | V   | -15.6        | 32.3              | 74.0                 |
| 4961.090909     | 44.9             | V   | -11.0        | 29.2              | 74.0                 |
| 6569.090909     | 46.2             | V   | -7.4         | 27.8              | 74.0                 |
| 8114.093750     | 47.9             | V   | -4.0         | 26.1              | 74.0                 |
| 17992.093750    | 60.7             | V   | 12.0         | 13.4              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1328.909091     | 26.3             | H   | -18.7        | 27.7              | 54.0                 |
| 1460.363636     | 32.7             | H   | -18.6        | 21.3              | 54.0                 |
| 4958.909091     | 36.3             | H   | -11.0        | 17.7              | 54.0                 |
| 6596.363636     | 35.6             | H   | -7.4         | 18.4              | 54.0                 |
| 8032.625000     | 35.3             | H   | -3.4         | 26.9              | 54.0                 |
| 17985.906250    | 47.4             | H   | 11.9         | 14.8              | 54.0                 |
| 1460.909091     | 28.9             | V   | -18.6        | 25.1              | 54.0                 |
| 2258.909091     | 28.9             | V   | -15.6        | 25.1              | 54.0                 |
| 4961.090909     | 38.8             | V   | -11.0        | 15.3              | 54.0                 |
| 6569.090909     | 36.5             | V   | -7.4         | 17.6              | 54.0                 |
| 8114.093750     | 35.4             | V   | -4.0         | 18.6              | 54.0                 |
| 17992.093750    | 47.8             | V   | 12.0         | 6.2               | 54.0                 |

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