

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                       |                                      |                                                 |                   |                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------|-------------------|------------------------------------------------------|--|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>CN22Y9WY 001</b>                                                                                                                                                                   | <b>Auftrags-Nr.:</b><br>Order no.:   |                                                 | <b>244417092</b>  | Seite 1 von 49<br>Page 1 of 49                       |  |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>P00645001</b>                                                                                                                                                                      | <b>Auftragsdatum:</b><br>Order date: |                                                 | <b>2022-11-11</b> |                                                      |  |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | FCC: Decathlon America LLC<br>1160 Battery Street, Suite 100, San Francisco, CA 94111, United States<br>IC: DECATHLON SE<br>4 Boulevard de Mons, VILLENEUVE D'ASCQ, 59650, France     |                                      |                                                 |                   |                                                      |  |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Treadmill                                                                                                                                                                             |                                      |                                                 |                   |                                                      |  |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                           |  | W900 110V US CA<br>FCC ID:2A8UOW900<br>IC:244468-W900                                                                                                                                 |                                      |                                                 |                   |                                                      |  |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Complete test                                                                                                                                                                         |                                      |                                                 |                   |                                                      |  |
| <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 2, February 2017<br>ANSI C63.10: 2013                                     |                                      |                                                 |                   |                                                      |  |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 2022-11-08                                                                                                                                                                            |                                      |                                                 |                   |                                                      |  |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                            |  | A003368355-001                                                                                                                                                                        |                                      |                                                 |                   |                                                      |  |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Refer to test report                                                                                                                                                                  |                                      |                                                 |                   |                                                      |  |
| <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:                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | X <u>Yanli Fan</u>                                                                                                                                                                    |                                      | <b>genehmigt von:</b><br>authorized by:         |                   | X <u>Elliot Zhang</u>                                |  |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 2023-05-15<br><small>Signed by: Yanli Fan</small>                                                                                                                                     |                                      | <b>Ausstellungsdatum:</b><br>Issue date:        |                   | 2023-05-15<br><small>Signed by: Elliot Zhang</small> |  |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | PE/Yanli Fan                                                                                                                                                                          |                                      | <b>Stellung / Position:</b>                     |                   | Reviewer/Elliot Zhang                                |  |
| <b>Sonstiges /</b><br>Other:                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | HVIN: W900 110V US CA<br>Model code: 8405295<br>Conception code: 300689<br>Supplier name: Zhejiang Arcana Power Sports<br>Supplier code: 46559<br>Test request no.: L074-03-2201-0003 |                                      |                                                 |                   |                                                      |  |
| <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                                                                                                           |                                      |                                                 |                   |                                                      |  |
| * Legende:                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | P(ass) = entspricht o.g. Prüfgrundlage(n)                                                                                                                                             |                                      | F(ail) = entspricht nicht o.g. Prüfgrundlage(n) |                   | N/A = nicht anwendbar                                |  |
| * Legend:                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | P(ass) = passed a.m. test specification(s)                                                                                                                                            |                                      | F(ail) = failed a.m. test specification(s)      |                   | N/A = not applicable                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                       |                                      |                                                 |                   | N/T = nicht getestet                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                       |                                      |                                                 |                   | N/T = not tested                                     |  |
| <p><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></p> <p><i>This test report only relates to the a. m. 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></p> |  |                                                                                                                                                                                       |                                      |                                                 |                   |                                                      |  |

## TEST SUMMARY

### **5.1.1 ANTENNA REQUIREMENT**

RESULT: Pass

### **5.1.2 6dB & 99% BANDWIDTH**

RESULT: Pass

### **5.1.3 PEAK 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

Null.

## 2. Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Shanghai TUV Rheinland Building No. 177, 178 Lane 777, West Guangzhong Rd, Jing'an District, Shanghai, 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 958801.

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 2932F.

## 2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

| Equip.    | Description                       | Model       | Manufacturer    | Due Date   |
|-----------|-----------------------------------|-------------|-----------------|------------|
| G1811378  | 3m modified semi-anechoic chamber | SAC3        | Frankonia       | 10.06.2024 |
| 9042162   | EMI test receiver                 | ESR7        | Rohde&Schwarz   | 02.03.2023 |
| G1811425  | Bilog antenna                     | CBL 6112D   | Teseq           | 10.03.2023 |
| G1811417  | Log periodic antenna              | HL050       | Rohde&Schwarz   | 10.03.2023 |
| G1822695  | Spectrum analyser                 | FSP30       | Rohde&Schwarz   | 16.08.2024 |
| G1825371  | Preamplifier                      | EMC051845SE | Taiwan EMCI     | 14.05.2023 |
| G1825372  | Preamplifier                      | EMC184045SE | Taiwan EMCI     | 14.05.2023 |
| G1831065  | Broadband horn antenna            | BBHA 9170   | Schwarzbeck     | 10.07.2023 |
| G1822702  | Spectrum analyser                 | FSV40       | Rohde&Schwarz   | 04.11.2023 |
| EMC-C-304 | OSP                               | OSP-B157W8  | Rohde & Schwarz | 14.10.2023 |

## 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 | ±3.39dB     |
| 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 Treadmill which supports Bluetooth Low Energy and Bluetooth Classic.

The aim of this report is to evaluate the RF characteristic of the Bluetooth Low Energy of this EUT.

For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

| General Description of EUT                                                   |                                                                                        |
|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Product Name:                                                                | Treadmill                                                                              |
| Model No.:                                                                   | W900 110V BR                                                                           |
| Test Voltage:                                                                | DC 3.3V for RF Conducted and Radiated Test<br>AC 120V/60Hz for Conducted Emission Test |
| Technical Specification of Bluetooth Classic(Wireless module: EW-BLED-26)    |                                                                                        |
| Frequency Range:                                                             | 2402 to 2480MHz                                                                        |
| Modulation Type:                                                             | GFSK, $\pi/4$ DQPSK                                                                    |
| Data Rate:                                                                   | 1Mbps(GFSK), 2Mbps( $\pi/4$ DQPSK)                                                     |
| Antenna Type:                                                                | PCB Antenna                                                                            |
| Antenna Gain:                                                                | -6.5dBi (Provided by the Client)                                                       |
| Technical Specification of Bluetooth Low Energy(Wireless module: EW-BLED-22) |                                                                                        |
| Frequency Range:                                                             | 2402 to 2480MHz                                                                        |
| Modulation Type:                                                             | GFSK                                                                                   |
| Data Rate:                                                                   | 1Mbps                                                                                  |
| Antenna Type:                                                                | PCB Antenna                                                                            |
| Antenna Gain:                                                                | -6.5dBi (Provided by the Client)                                                       |

### 3.3 Independent Operation Modes

**Table 4: Independent Operation Modes**

| Test Mode | Operating Mode        | Channel Number | Channel Frequency [MHz] |
|-----------|-----------------------|----------------|-------------------------|
| TM1       | 1Mb/s                 | 00             | 2402                    |
| TM2       | 1Mb/s                 | 19             | 2440                    |
| TM3       | 1Mb/s                 | 39             | 2480                    |
| TM4       | Normal Operating Mode |                |                         |

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label



## 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.

**Table 5: Power parameter value**

| Channel Frequency<br>[MHz] | Power Parameter Value |
|----------------------------|-----------------------|
| 2402                       | 15                    |
| 2440                       | 15                    |
| 2480                       | 15                    |

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Auxiliary Equipment**

| Product Name | Model Name | Manufactory |
|--------------|------------|-------------|
| Laptop       | TP00001A   | Lenovo      |

### 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 for Bluetooth Classic has one PCB antenna, the EUT for Bluetooth Low Energy has one PCB antenna, the directional gain of antenna is -6.5 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:                                                                               | 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                                                                                                                                                                                                                           |  |

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Test Report No.**Seite 11 von 49**  
Page 11 of 49**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: | -6.5dBi     |

**Verdict:** PASS

### 5.1.2 6dB & 99% Bandwidth

**RESULT:****Pass**

Date of testing : 2022-12-05  
Ambient temperature : 22.4°C  
Relative humidity : 47.9%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(a)(1)  
RSS-247 Issue 2, February 2017, Clause 5.1(a)  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 3.3V  
Test modes applied : TM1 to TM3

**Table 8: 6dB & 99% Bandwidth**

| Test Mode | CH. | Freq.<br>[MHz] | 6dB Bandwidth<br>[kHz] | 6dB Bandwidth limit<br>[kHz] | 99% Bandwidth<br>[kHz] |
|-----------|-----|----------------|------------------------|------------------------------|------------------------|
| TM1       | 00  | 2402           | 673.268                | ≥500                         | 925.000                |
| TM2       | 19  | 2440           | 673.268                | ≥500                         | 930.000                |
| TM3       | 39  | 2480           | 673.268                | ≥500                         | 940.000                |

**TM1, 2402MHz**
**Minimum Emission Bandwidth 6 dB (2402 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
Expanded Uncertainty (K=2) < 2%

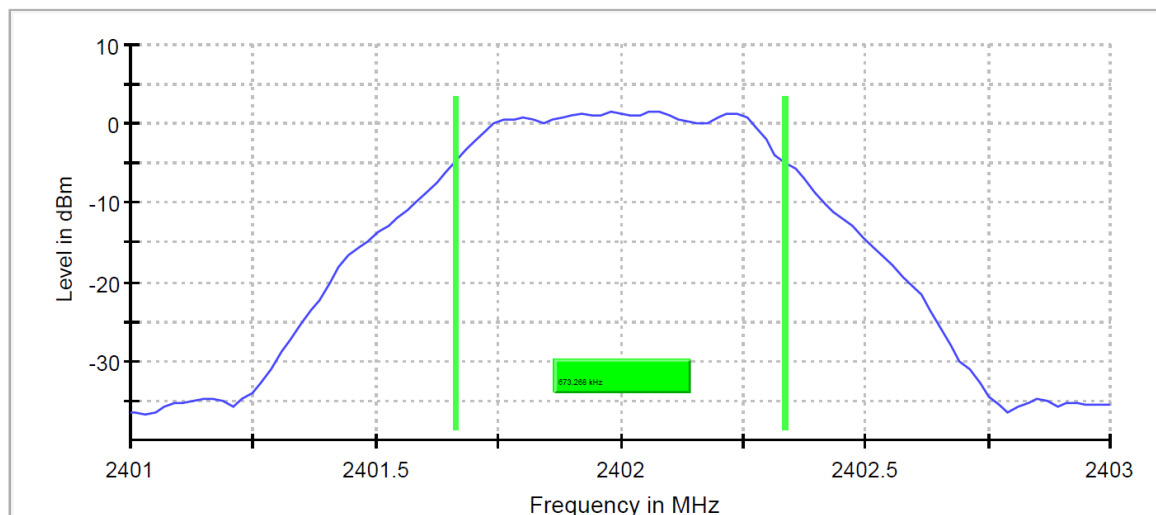
**6 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.673268        | 0.500000        | ---             | 2401.663366          | 2402.336634           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2402.000000         | 1.5             | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 101              | ~ 40          |
| SweepTime             | 18.938 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                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.09 dB          | 0.50 dB       |

**TM2, 2440MHz**
**Minimum Emission Bandwidth 6 dB (2440 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 2%

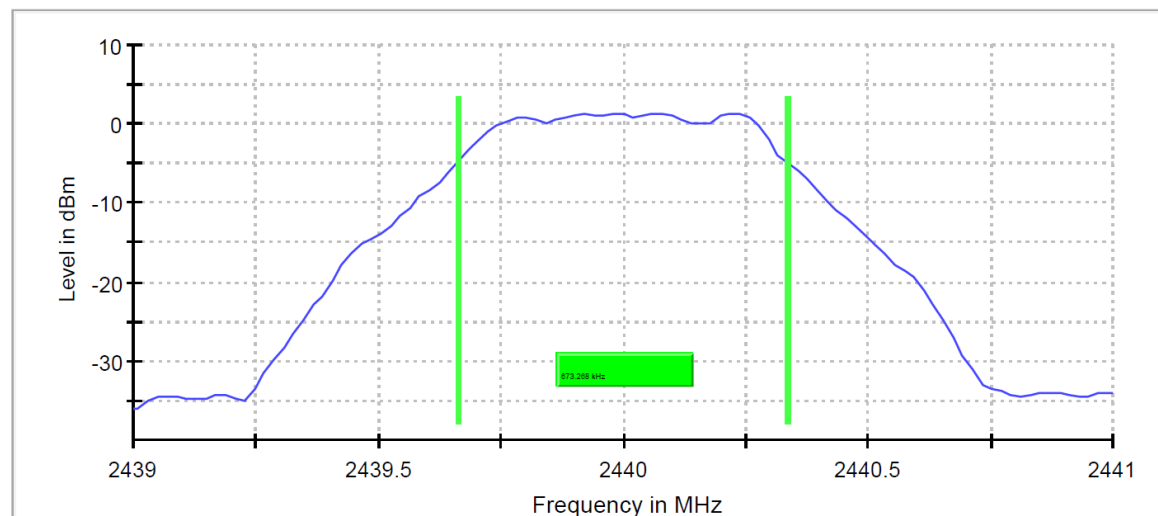
**6 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000         | 0.673268        | 0.500000        | ---             | 2439.663366          | 2440.336634           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2440.000000         | 1.4             | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.43900 GHz      | 2.43900 GHz   |
| Stop Frequency        | 2.44100 GHz      | 2.44100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 101              | ~ 40          |
| SweepTime             | 18.938 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                   | 8 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.05 dB          | 0.50 dB       |

**TM3, 2480MHz**
**Minimum Emission Bandwidth 6 dB (2480 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 2%

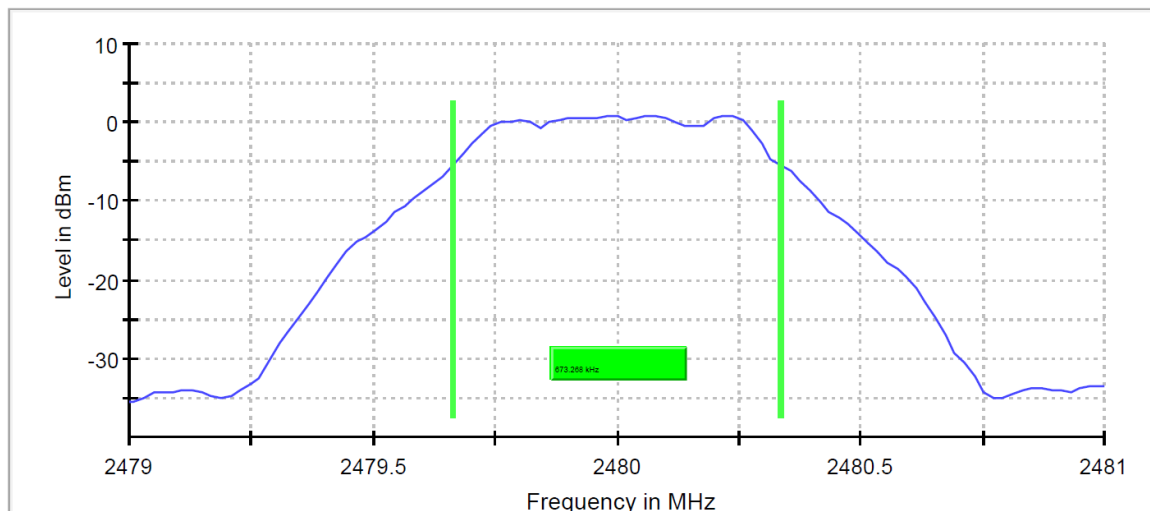
**6 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.673268        | 0.500000        | ---             | 2479.663366          | 2480.336634           |

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

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2480.000000         | 0.9             | PASS   |

6 dB Bandwidth


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 101              | ~ 40          |
| SweepTime             | 18.938 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                   | 9 / max. 150     | max. 150      |
| Stable                | 5 / 5            | 5             |
| Max Stable Difference | 0.04 dB          | 0.50 dB       |

**TM1, 2402MHz**

## Occupied Channel Bandwidth 99% (2402 MHz; 8.000 dBm; 1 MHz)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
Expanded Uncertainty (K=2) < 2%

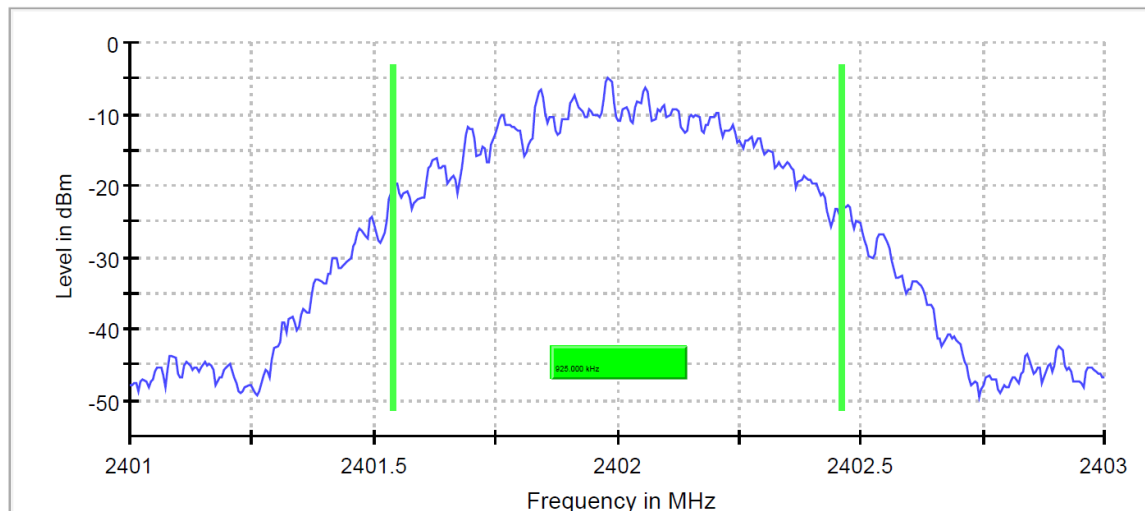
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2402.000000         | 0.925000        | ---             | ---             | 2401.537500          | 2402.462500           |

(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       | 2.40100 GHz      | 2.40100 GHz   |
| Stop Frequency        | 2.40300 GHz      | 2.40300 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 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 | 0.08 dB          | 0.30 dB       |



**TM2, 2440MHz**
**Occupied Channel Bandwidth 99% (2440 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 2%

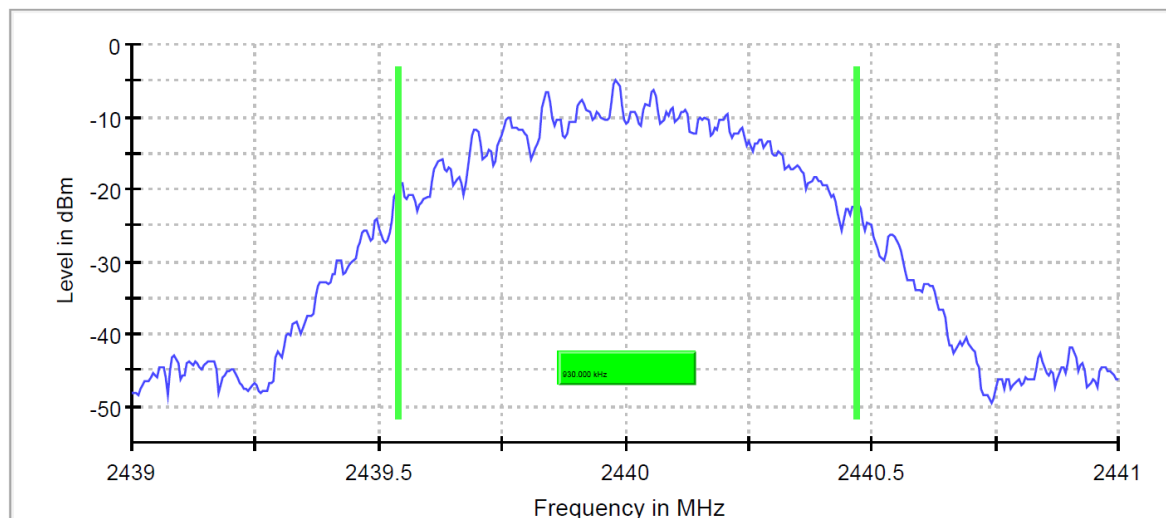
**99 % Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2440.000000         | 0.930000        | ---             | ---             | 2439.537500          | 2440.467500           |

(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       | 2.43900 GHz      | 2.43900 GHz   |
| Stop Frequency        | 2.44100 GHz      | 2.44100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 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 | 0.08 dB          | 0.30 dB       |

**TM3, 2480MHz**
**Occupied Channel Bandwidth 99% (2480 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10-2013 11.8.1

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 2%

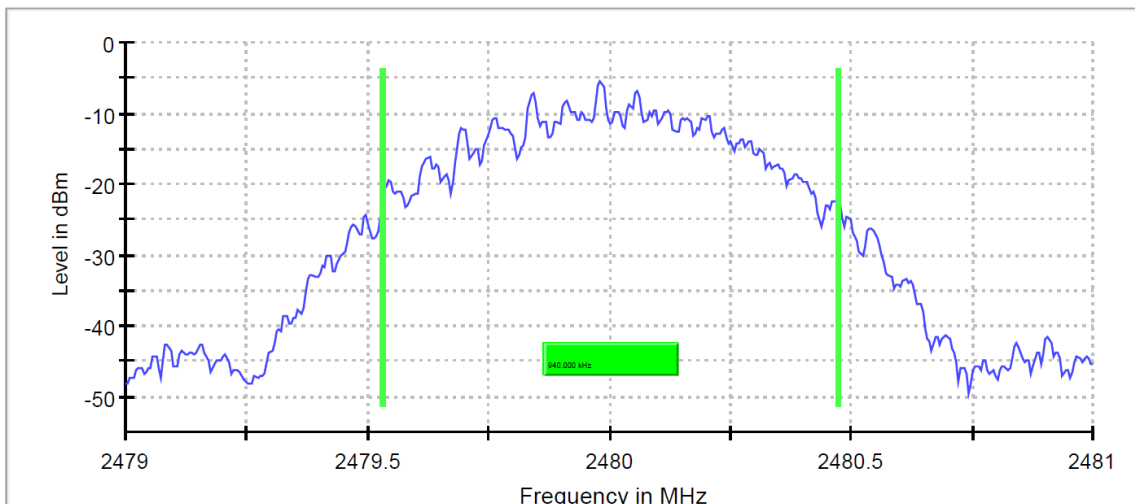
**99 % Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2480.000000         | 0.940000        | ---             | ---             | 2479.532500          | 2480.472500           |

(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       | 2.47900 GHz      | 2.47900 GHz   |
| Stop Frequency        | 2.48100 GHz      | 2.48100 GHz   |
| Span                  | 2.000 MHz        | 2.000 MHz     |
| RBW                   | 10.000 kHz       | >= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 400              | ~ 400         |
| SweepTime             | 189.648 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           | 0.30 dB          | 0.30 dB       |
| Run                   | 4 / max. 150     | max. 150      |
| Stable                | 3 / 3            | 3             |
| Max Stable Difference | 0.13 dB          | 0.30 dB       |

The cable loss=1dB was provided by the client, and was factored in the result Peak Conducted Output Power

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### 5.1.4 Power Spectral Density

**RESULT:****Pass**

|                      |   |                                                                     |
|----------------------|---|---------------------------------------------------------------------|
| Date of testing      | : | 2022-12-05                                                          |
| Ambient temperature  | : | 22.4°C                                                              |
| Relative humidity    | : | 47.9%                                                               |
| Atmospheric pressure | : | 101kPa                                                              |
| Test requirement     | : | FCC Part 15.247(e)<br>RSS-247 Issue 2, February 2017, Clause 5.2(b) |
| Test procedure       | : | ANSI C63.10: 2013                                                   |
| Test voltage         | : | DC 3.3V                                                             |
| Test modes applied   | : | TM1 to TM3                                                          |

**TM1, 2402MHz**
**Peak Power Spectral Density (2402 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.3 dB

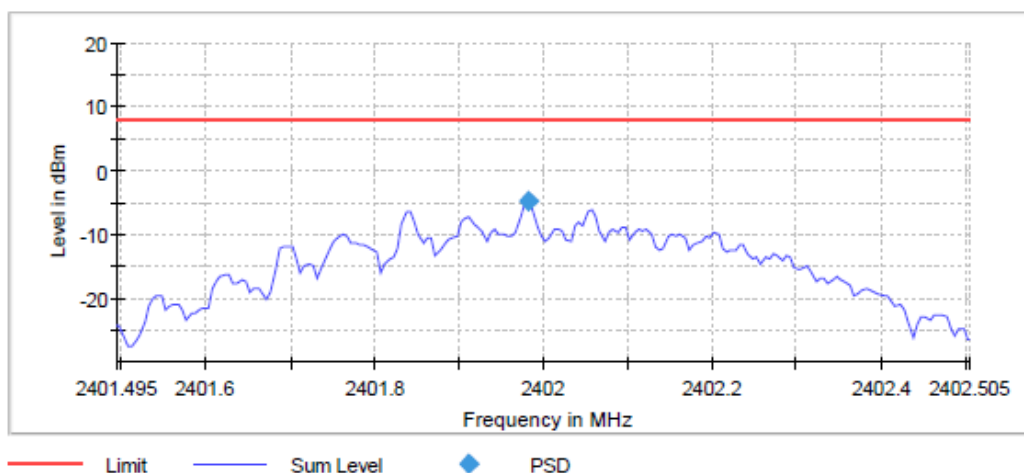
**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2402.000000         | 2401.982502     | -4.780    | 8.0             | PASS   |

**Ports**

| Port | State |
|------|-------|
| 1    | used  |

Peak Power Spectral Density


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.40150 GHz      | 2.40150 GHz   |
| Stop Frequency        | 2.40250 GHz      | 2.40250 GHz   |
| Span                  | 1.010 MHz        | 1.010 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 202              | ~ 202         |
| Sweeptime             | 1.010 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 | 0.05 dB          | 0.50 dB       |

**TM2, 2440MHz**
**Peak Power Spectral Density (2440 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.3 dB

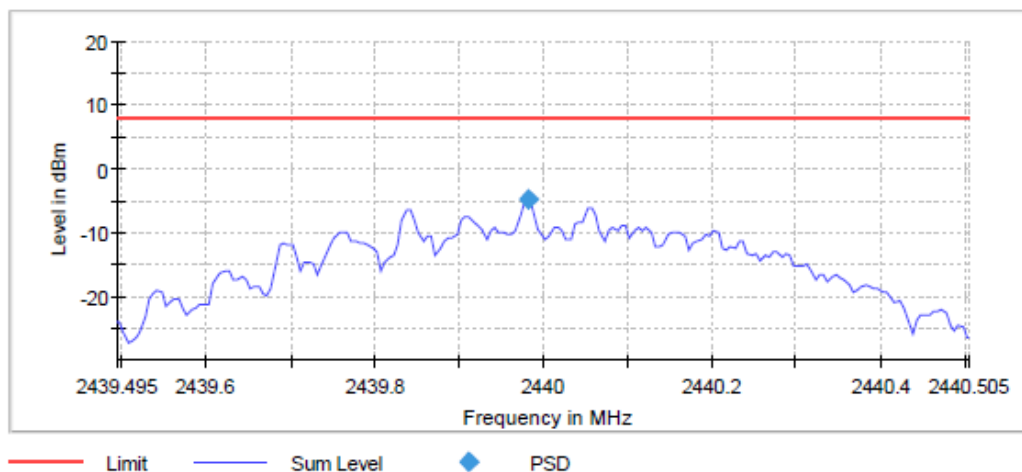
**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2440.000000         | 2439.982502     | -4.795    | 8.0             | PASS   |

**Ports**

| Port | State |
|------|-------|
| 1    | used  |

Peak Power Spectral Density


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.43950 GHz      | 2.43950 GHz   |
| Stop Frequency        | 2.44050 GHz      | 2.44050 GHz   |
| Span                  | 1.010 MHz        | 1.010 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 202              | ~ 202         |
| SweepTime             | 1.010 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       |

**TM3, 2480MHz**
**Peak Power Spectral Density (2480 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v05r02 F and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.3 dB

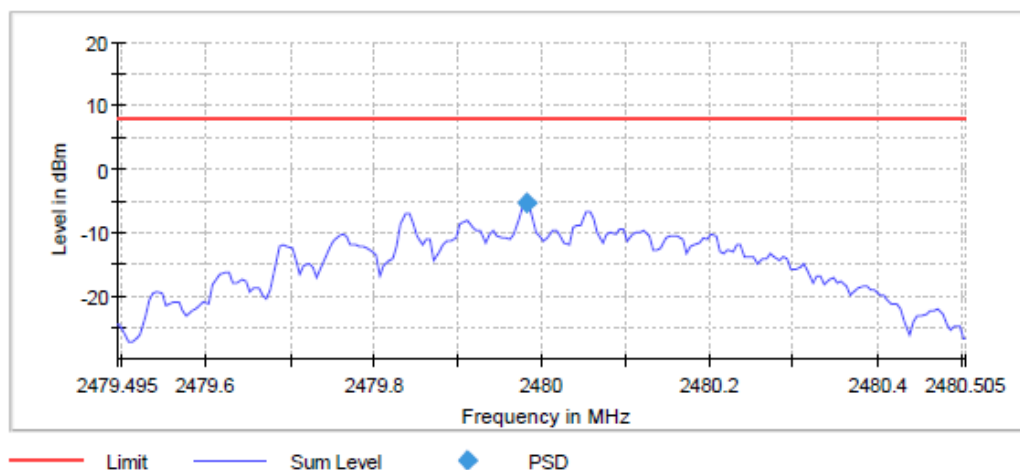
**Result**

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2480.000000         | 2479.982502     | -5.352    | 8.0             | PASS   |

**Ports**

| Port | State |
|------|-------|
| 1    | used  |

Peak Power Spectral Density


**Measurement**

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.47950 GHz      | 2.47950 GHz   |
| Stop Frequency        | 2.48050 GHz      | 2.48050 GHz   |
| Span                  | 1.010 MHz        | 1.010 MHz     |
| RBW                   | 10.000 kHz       | <= 10.000 kHz |
| VBW                   | 30.000 kHz       | >= 30.000 kHz |
| SweepPoints           | 202              | ~ 202         |
| SweepTime             | 1.010 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 | 0.11 dB          | 0.50 dB       |

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

**RESULT:****Pass**

|                      |   |                                                                  |
|----------------------|---|------------------------------------------------------------------|
| Date of testing      | : | 2022-12-05                                                       |
| Ambient temperature  | : | 22.4°C                                                           |
| Relative humidity    | : | 47.9%                                                            |
| Atmospheric pressure | : | 101kPa                                                           |
| Test requirement     | : | FCC Part 15.247(d)<br>RSS-247 Issue 2, February 2017, Clause 5.5 |
| Test procedure       | : | ANSI C63.10: 2013                                                |
| Test voltage         | : | DC 3.3V                                                          |
| Test modes applied   | : | TM1 to TM3                                                       |



**TM1, 2402MHz**
**Band Edge low (2402 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 0.8 dB

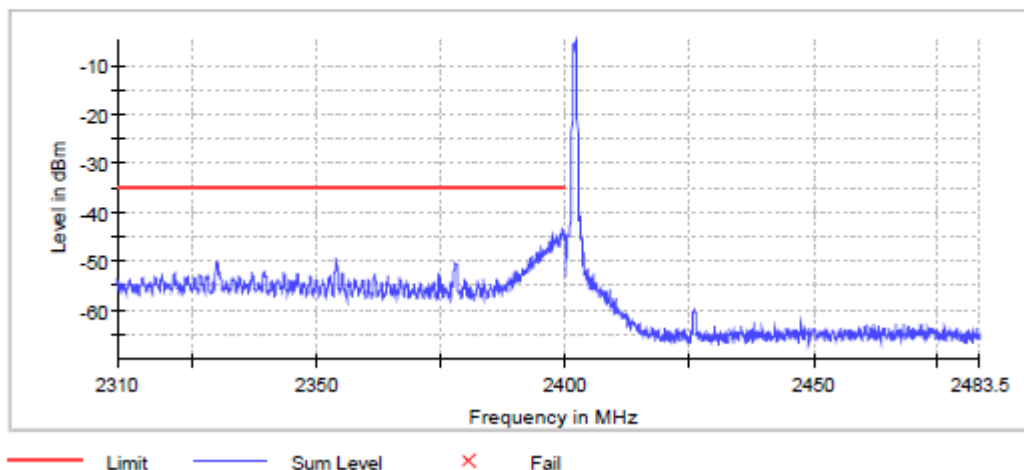
**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |

**Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2399.475000     | -43.3       | 8.2         | -35.1       | PASS   |
| 2399.425000     | -44.0       | 8.9         | -35.1       | PASS   |
| 2399.575000     | -44.0       | 8.9         | -35.1       | PASS   |
| 2399.275000     | -44.2       | 9.1         | -35.1       | PASS   |
| 2399.625000     | -44.2       | 9.1         | -35.1       | PASS   |
| 2399.225000     | -44.3       | 9.2         | -35.1       | PASS   |
| 2399.525000     | -44.4       | 9.2         | -35.1       | PASS   |
| 2399.075000     | -44.4       | 9.3         | -35.1       | PASS   |
| 2399.725000     | -44.5       | 9.4         | -35.1       | PASS   |
| 2399.125000     | -44.5       | 9.4         | -35.1       | PASS   |
| 2399.975000     | -44.6       | 9.4         | -35.1       | PASS   |
| 2399.325000     | -44.6       | 9.5         | -35.1       | PASS   |
| 2399.675000     | -44.7       | 9.6         | -35.1       | PASS   |
| 2399.375000     | -44.8       | 9.7         | -35.1       | PASS   |
| 2399.925000     | -44.8       | 9.7         | -35.1       | PASS   |

Band Edge



**Measurement 1**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.31000 GHz      | 2.31000 GHz    |
| Stop Frequency        | 2.40000 GHz      | 2.40000 GHz    |
| Span                  | 90.000 MHz       | 90.000 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1800             | ~ 1800         |
| SweepTime             | 1.800 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            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 19 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

**Measurement 2**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 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            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 9 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.12 dB          | 0.50 dB        |

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**TM3, 2480MHz**
**Band Edge high (2480 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.7 and ANSI C63.10-2013

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 0.8 dB

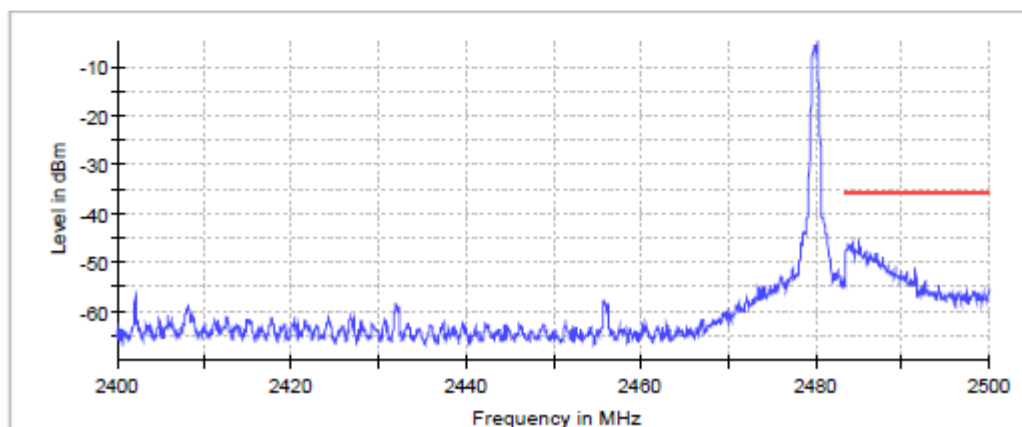
**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |

**Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2485.025000     | -45.2       | 9.6         | -35.6       | PASS   |
| 2484.975000     | -45.6       | 10.0        | -35.6       | PASS   |
| 2483.725000     | -46.1       | 10.4        | -35.6       | PASS   |
| 2484.275000     | -46.2       | 10.6        | -35.6       | PASS   |
| 2484.075000     | -46.3       | 10.7        | -35.6       | PASS   |
| 2485.075000     | -46.4       | 10.8        | -35.6       | PASS   |
| 2483.675000     | -46.7       | 11.1        | -35.6       | PASS   |
| 2485.175000     | -46.8       | 11.2        | -35.6       | PASS   |
| 2483.775000     | -46.9       | 11.3        | -35.6       | PASS   |
| 2484.325000     | -46.9       | 11.3        | -35.6       | PASS   |
| 2484.125000     | -46.9       | 11.3        | -35.6       | PASS   |
| 2484.025000     | -46.9       | 11.3        | -35.6       | PASS   |
| 2483.875000     | -47.0       | 11.4        | -35.6       | PASS   |
| 2484.225000     | -47.1       | 11.5        | -35.6       | PASS   |
| 2484.425000     | -47.1       | 11.5        | -35.6       | PASS   |

Band Edge



— Limit — Sum Level × Fail

**Measurement 1**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| SweepTime             | 1.670 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            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 8 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.02 dB          | 0.50 dB        |

**Measurement 2**

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.48350 GHz      | 2.48350 GHz    |
| Stop Frequency        | 2.50000 GHz      | 2.50000 GHz    |
| Span                  | 16.500 MHz       | 16.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 330              | ~ 330          |
| 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                   | 5 / max. 150     | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

**TM1, 2402MHz**
**Tx Spurious Emission (2402 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2013 11.11.2 & 11.11.3

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.8 dB

**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2402.000000         | PASS   |

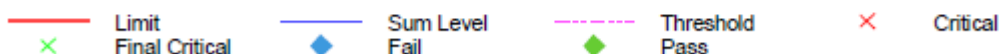
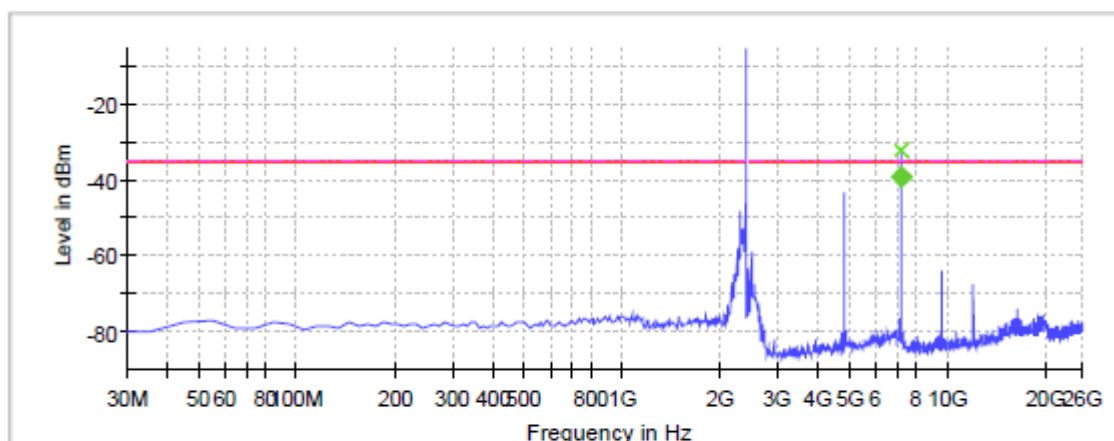
**Final measurements**

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| 7206.587104     | -35.5                       | -39.3       | -35.3       | 4.0         | PASS   |

**Pre Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 7205.789099     | -32.1       | -3.2        | -35.3       |
| 2395.021008     | -43.1       | 7.8         | -35.3       |
| 4807.166065     | -43.3       | 8.0         | -35.3       |
| 2305.399160     | -48.4       | 13.1        | -35.3       |
| 2325.315126     | -52.6       | 17.3        | -35.3       |
| 2375.105042     | -52.9       | 17.6        | -35.3       |
| 2355.189076     | -53.2       | 17.9        | -35.3       |
| 2335.273109     | -56.0       | 20.6        | -35.3       |
| 2385.063025     | -56.5       | 21.2        | -35.3       |
| 2345.231092     | -56.7       | 21.4        | -35.3       |
| 2255.609244     | -57.9       | 22.5        | -35.3       |
| 2315.357143     | -58.0       | 22.7        | -35.3       |
| 2365.147059     | -58.7       | 23.4        | -35.3       |
| 2498.491394     | -59.0       | 23.7        | -35.3       |
| 2295.441176     | -60.2       | 24.9        | -35.3       |

Spurious



## Pre Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 238              | ~ 238          |
| SweepTime             | 23.700 ms        | AUTO           |
| Reference Level       | -20.000 dBm      | -30.000 dBm    |
| Attenuation           | 10.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 3                | 3              |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 8 / max. 40      | max. 40        |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Final Measurement 1

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| RBW             | 100.000 kHz      | <= 100.000 kHz |
| VBW             | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints     | 401              | ~ 401          |
| SweepTime       | 94.768 µs        | AUTO           |
| Reference Level | -30.000 dBm      | -30.000 dBm    |
| Attenuation     | 0.000 dB         | AUTO           |
| Detector        | Sample           | Sample         |
| SweepCount      | 100              | 100            |
| Filter          | 3 dB             | 3 dB           |
| Trace Mode      | Average Linear   | Average Linear |
| SweepType       | FFT              | AUTO           |
| Preamp          | off              | off            |

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**TM2, 2440MHz**
**Tx Spurious Emission (2440 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2013 11.11.2 & 11.11.3

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.8 dB

**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2440.000000         | PASS   |

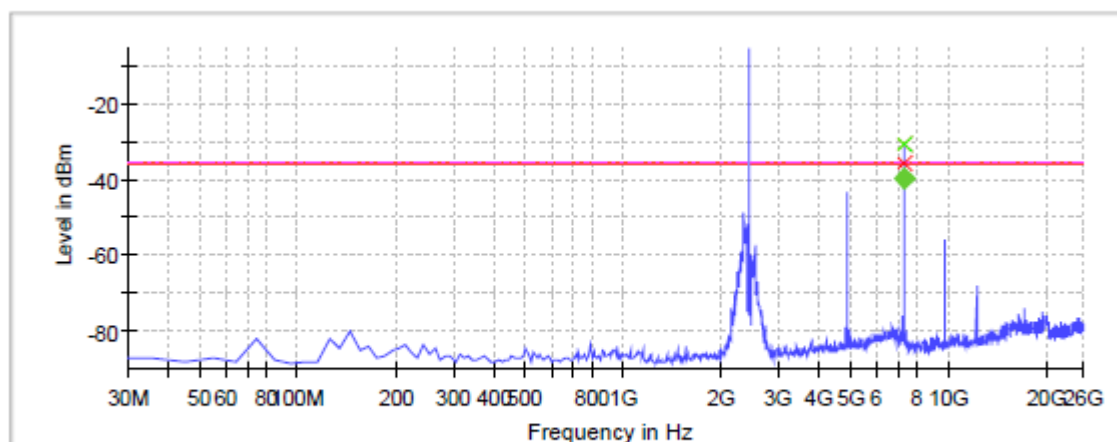
**Final measurements**

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| 7320.563893     | -33.0                       | -39.6       | -35.7       | 3.8         | PASS   |

**Pre Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 7315.725988     | -30.8       | -5.0        | -35.7       |
| 7325.720251     | -35.5       | -0.2        | -35.7       |
| 4877.125903     | -43.2       | 7.5         | -35.7       |
| 2345.231092     | -48.6       | 12.9        | -35.7       |
| 2395.021008     | -51.9       | 16.1        | -35.7       |
| 2365.147059     | -52.5       | 16.8        | -35.7       |
| 9754.326073     | -55.6       | 19.9        | -35.7       |
| 2375.105042     | -56.4       | 20.7        | -35.7       |
| 9764.320336     | -56.7       | 21.0        | -35.7       |
| 2355.189076     | -56.8       | 21.1        | -35.7       |
| 2385.063025     | -57.0       | 21.3        | -35.7       |
| 2538.468445     | -57.5       | 21.8        | -35.7       |
| 2295.441176     | -58.9       | 23.2        | -35.7       |
| 2488.497131     | -59.7       | 23.9        | -35.7       |
| 2315.357143     | -60.2       | 24.5        | -35.7       |

Spurious



x Limit Final Critical    
 ◆ Sum Level Fail    
 ◆ Threshold Pass    
 x Critical

## Pre Measurement 1

| Setting                | Instrument Value | Target Value   |
|------------------------|------------------|----------------|
| RBW                    | 100.000 kHz      | <= 100.000 kHz |
| VBW                    | 300.000 kHz      | >= 300.000 kHz |
| <del>SweepPoints</del> | 238              | ~ 238          |
| <del>Sweeptime</del>   | 23.700 ms        | AUTO           |
| Reference Level        | -30.000 dBm      | -30.000 dBm    |
| Attenuation            | 0.000 dB         | AUTO           |
| Detector               | MaxPeak          | MaxPeak        |
| <del>SweepCount</del>  | 3                | 3              |
| Filter                 | 3 dB             | 3 dB           |
| Trace Mode             | Max Hold         | Max Hold       |
| <del>SweepType</del>   | Sweep            | AUTO           |
| Preamp                 | off              | off            |
| <del>Stablemode</del>  | Trace            | Trace          |
| <del>Stablevalue</del> | 0.50 dB          | 0.50 dB        |
| Run                    | 11 / max. 40     | max. 40        |
| Stable                 | 3 / 3            | 3              |
| Max Stable Difference  | 0.00 dB          | 0.50 dB        |

## Final Measurement 1

| Setting                | Instrument Value | Target Value   |
|------------------------|------------------|----------------|
| RBW                    | 100.000 kHz      | <= 100.000 kHz |
| VBW                    | 300.000 kHz      | >= 300.000 kHz |
| <del>SweepPoints</del> | 401              | ~ 401          |
| <del>Sweeptime</del>   | 94.768 µs        | AUTO           |
| Reference Level        | -30.000 dBm      | -30.000 dBm    |
| Attenuation            | 0.000 dB         | AUTO           |
| Detector               | Sample           | Sample         |
| <del>SweepCount</del>  | 100              | 100            |
| Filter                 | 3 dB             | 3 dB           |
| Trace Mode             | Average Linear   | Average Linear |
| <del>SweepType</del>   | FFT              | AUTO           |
| Preamp                 | off              | off            |



**TM3, 2480MHz**
**Tx Spurious Emission (2480 MHz; 8.000 dBm; 1 MHz)**

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v05r02 8.5 and ANSI C63.10-2013 11.11.2 & 11.11.3

Measurement uncertainty calculated in accordance with ETSI TR 100 028-1.  
 Expanded Uncertainty (K=2) < 1.8 dB

**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2480.000000         | PASS   |

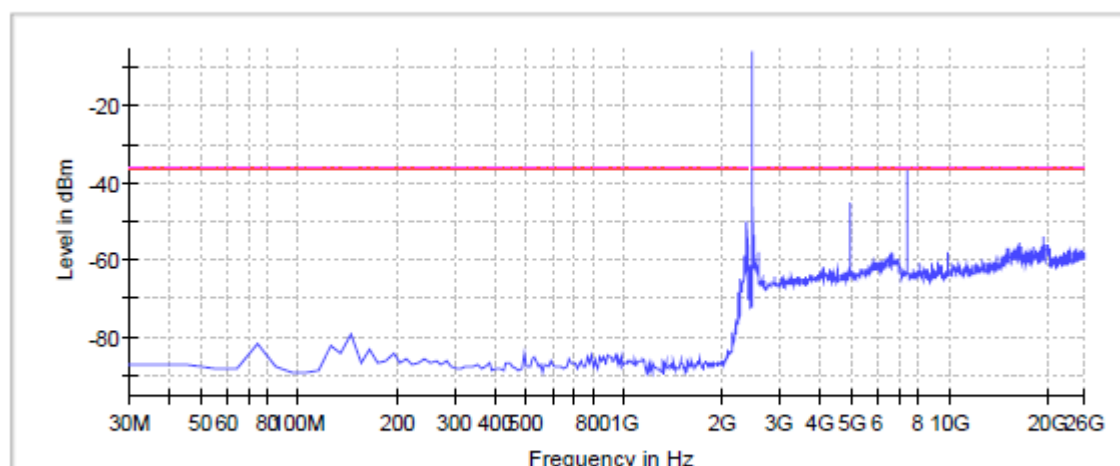
**Final measurements**

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

**Pre Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 7435.657140     | -36.9       | 0.7         | -36.2       |
| 7445.651402     | -39.1       | 2.9         | -36.2       |
| 4957.080004     | -45.0       | 8.9         | -36.2       |
| 2488.497131     | -45.6       | 9.4         | -36.2       |
| 2385.063025     | -50.0       | 13.8        | -36.2       |
| 2508.485657     | -53.4       | 17.2        | -36.2       |
| 19448.760837    | -53.9       | 17.7        | -36.2       |
| 16370.527943    | -55.6       | 19.4        | -36.2       |
| 19468.749363    | -55.6       | 19.4        | -36.2       |
| 19478.743625    | -55.7       | 19.5        | -36.2       |
| 19408.783787    | -55.8       | 19.6        | -36.2       |
| 19348.818211    | -55.8       | 19.6        | -36.2       |
| 20058.410858    | -55.9       | 19.7        | -36.2       |
| 19718.605929    | -56.0       | 19.8        | -36.2       |
| 16380.522206    | -56.1       | 20.0        | -36.2       |

Spurious



— Limit    — Sum Level    - - - Threshold    × Critical    × Final Critical

## Pre Measurement 1

| Setting                | Instrument Value | Target Value   |
|------------------------|------------------|----------------|
| RBW                    | 100.000 kHz      | <= 100.000 kHz |
| VBW                    | 300.000 kHz      | >= 300.000 kHz |
| <del>SweepPoints</del> | 238              | ~ 238          |
| <del>Sweeptime</del>   | 23.700 ms        | AUTO           |
| Reference Level        | -30.000 dBm      | -30.000 dBm    |
| Attenuation            | 0.000 dB         | AUTO           |
| Detector               | MaxPeak          | MaxPeak        |
| <del>SweepCount</del>  | 3                | 3              |
| Filter                 | 3 dB             | 3 dB           |
| Trace Mode             | Max Hold         | Max Hold       |
| <del>SweepType</del>   | Sweep            | AUTO           |
| Preamp                 | off              | off            |
| <del>Stablemode</del>  | Trace            | Trace          |
| <del>Stablevalue</del> | 0.50 dB          | 0.50 dB        |
| Run                    | 5 / max. 40      | max. 40        |
| Stable                 | 3 / 3            | 3              |
| Max Stable Difference  | 0.00 dB          | 0.50 dB        |

## Final Measurement 1

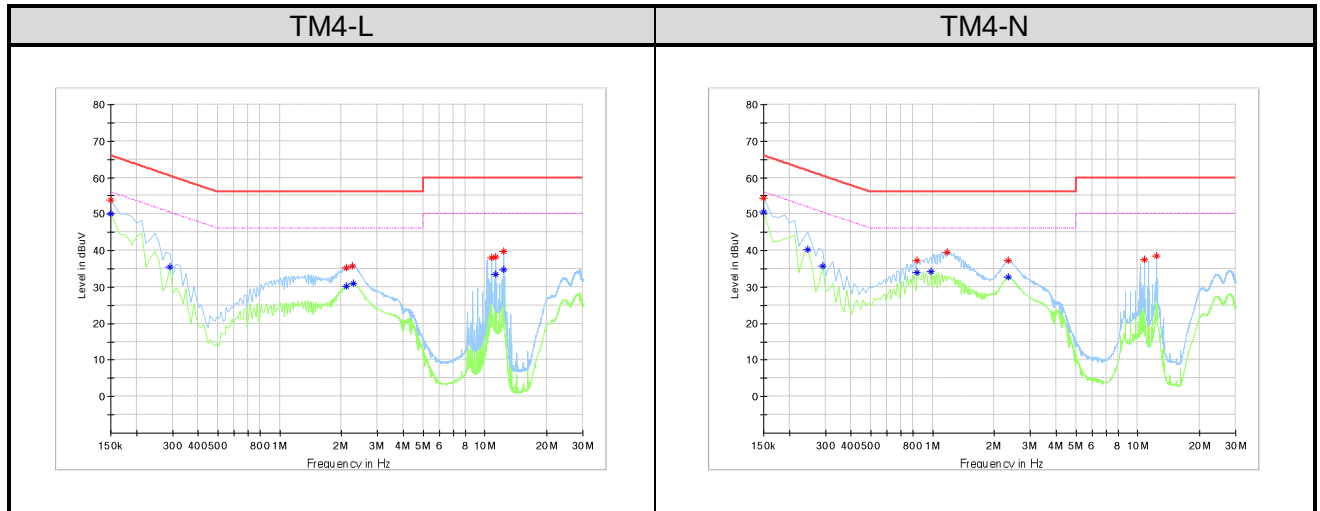
| Setting                | Instrument Value | Target Value   |
|------------------------|------------------|----------------|
| RBW                    | 100.000 kHz      | <= 100.000 kHz |
| VBW                    | 300.000 kHz      | >= 300.000 kHz |
| <del>SweepPoints</del> | 401              | ~ 401          |
| <del>Sweeptime</del>   | 94.768 µs        | AUTO           |
| Reference Level        | -30.000 dBm      | -30.000 dBm    |
| Attenuation            | 0.000 dB         | AUTO           |
| Detector               | Sample           | Sample         |
| <del>SweepCount</del>  | 100              | 100            |
| Filter                 | 3 dB             | 3 dB           |
| Trace Mode             | Average Linear   | Average Linear |
| <del>SweepType</del>   | FFT              | AUTO           |
| Preamp                 | off              | off            |

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

### 5.2.1 Conducted Emission

**RESULT:****Pass**

|                      |   |                                                                                |
|----------------------|---|--------------------------------------------------------------------------------|
| Date of testing      | : | 2022-12-07                                                                     |
| Ambient temperature  | : | 24.5°C                                                                         |
| Relative humidity    | : | 50.4%                                                                          |
| Atmospheric pressure | : | 101kPa                                                                         |
| Test requirement     | : | FCC Part 15.207 (a)<br>RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8 |
| Test procedure       | : | ANSI C63.10: 2013                                                              |
| Test voltage         | : | AC 120V/60Hz                                                                   |
| Test modes applied   | : | TM4                                                                            |

**Figure 1: Conducted Emission**


## Final Result

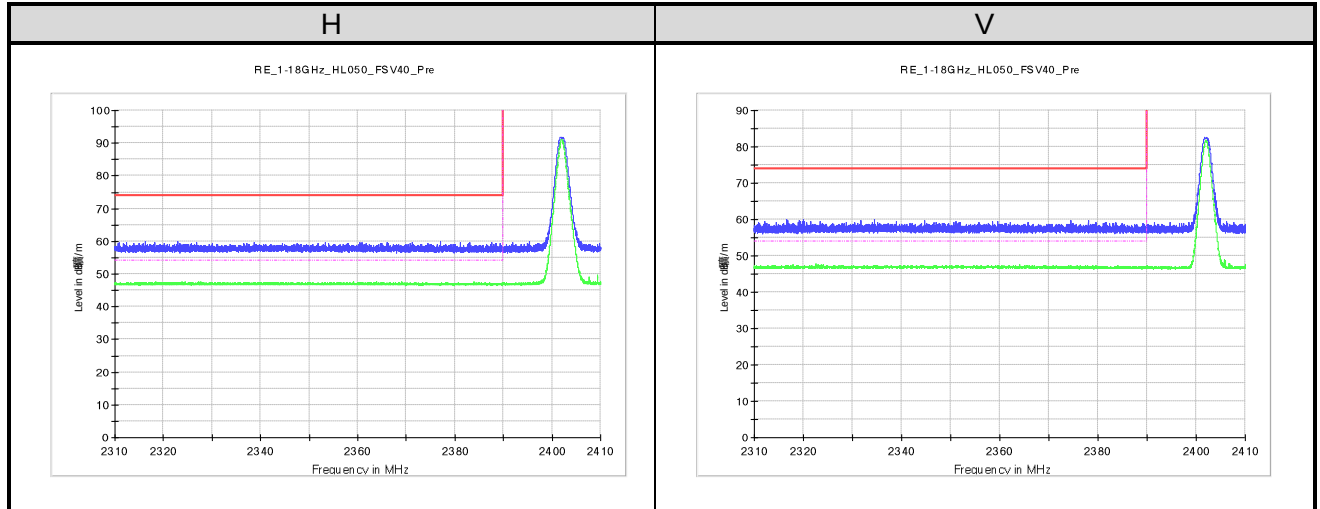
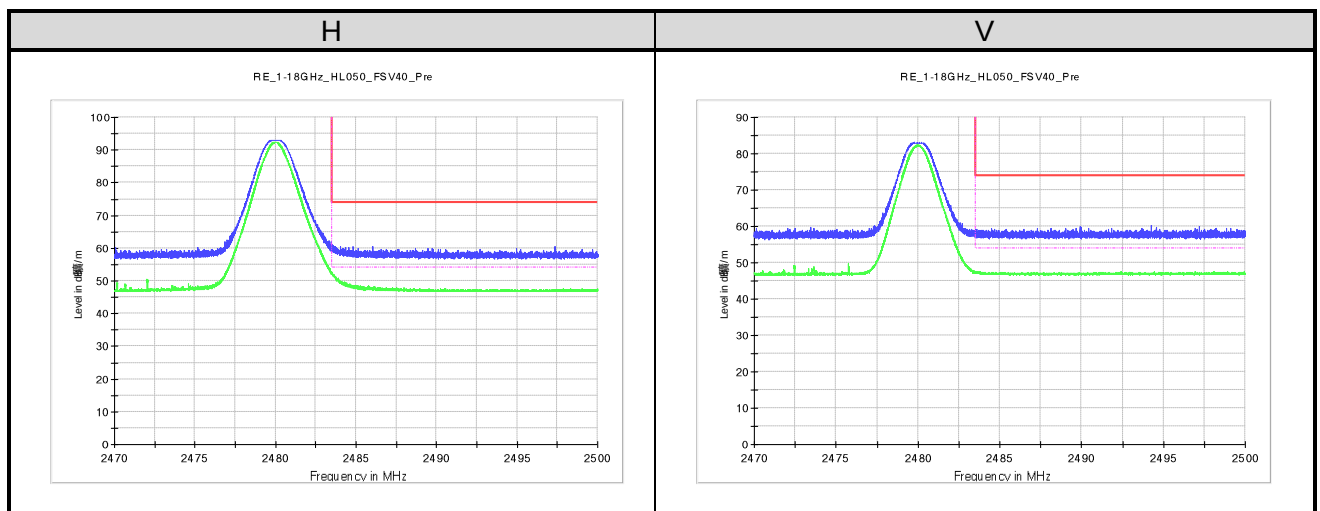
| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Comment |
|-----------------|------------------|----------------|--------------|-------------|------|---------|
| 2.113125        | 35.30            | ---            | 56.00        | 20.70       | L1   |         |
| 2.248125        | 35.77            | ---            | 56.00        | 20.23       | L1   |         |
| 10.753125       | 38.13            | ---            | 60.00        | 21.87       | L1   |         |
| 11.270625       | 38.36            | ---            | 60.00        | 21.64       | L1   |         |
| 12.294375       | 39.77            | ---            | 60.00        | 20.23       | L1   |         |
| 0.150000        | 53.94            | ---            | 66.00        | 12.06       | L1   |         |
| 12.294375       | ---              | 34.78          | 50.00        | 15.22       | L1   |         |
| 11.270625       | ---              | 33.51          | 50.00        | 16.49       | L1   |         |
| 0.150000        | ---              | 50.19          | 56.00        | 5.81        | L1   |         |
| 0.290625        | ---              | 35.47          | 50.51        | 15.03       | L1   |         |
| 2.270625        | ---              | 30.97          | 46.00        | 15.03       | L1   |         |
| 2.113125        | ---              | 30.27          | 46.00        | 15.73       | L1   |         |
| 0.841875        | 37.24            | ---            | 56.00        | 27.13       | N    |         |
| 2.338125        | 37.25            | ---            | 56.00        | 26.88       | N    |         |
| 10.764375       | 37.48            | ---            | 60.00        | 25.56       | N    |         |
| 12.305625       | 38.58            | ---            | 60.00        | 24.22       | N    |         |
| 1.179375        | 39.60            | ---            | 56.00        | 21.43       | N    |         |
| 0.150000        | 54.26            | ---            | 66.00        | 8.15        | N    |         |
| 2.338125        | ---              | 32.64          | 46.00        | 15.41       | N    |         |
| 0.245625        | ---              | 40.35          | 51.90        | 18.91       | N    |         |
| 0.150000        | ---              | 50.49          | 56.00        | 7.90        | N    |         |
| 0.290625        | ---              | 35.80          | 50.51        | 18.92       | N    |         |
| 0.976875        | ---              | 34.35          | 46.00        | 19.27       | N    |         |
| 0.841875        | ---              | 33.90          | 46.00        | 16.71       | N    |         |

## 5.3 Emission in the Frequency Range above 30MHz

### 5.3.1 Radiated Band-Edge

**RESULT:****Pass**

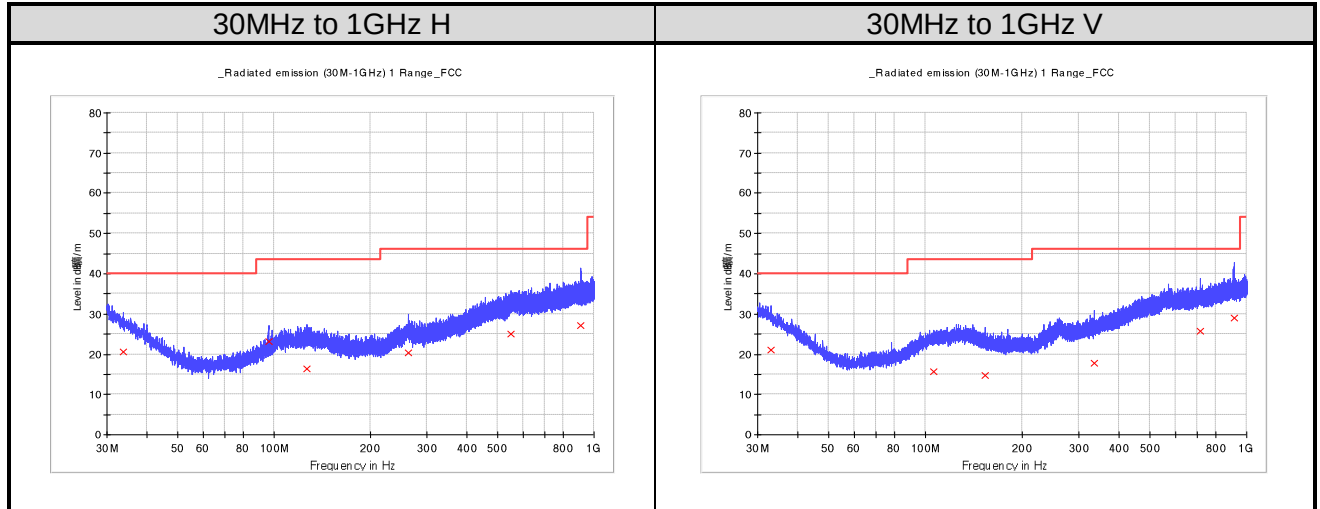
|                      |   |                                                                                                                                                                                                                                     |
|----------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2022-11-21                                                                                                                                                                                                                          |
| Ambient temperature  | : | 20.9°C                                                                                                                                                                                                                              |
| Relative humidity    | : | 50.2%                                                                                                                                                                                                                               |
| 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 2, February 2017, Clause 5.5 |
| Test procedure       | : | ANSI C63.10: 2013                                                                                                                                                                                                                   |
| Test voltage         | : | DC 3.3V                                                                                                                                                                                                                             |
| Test modes applied   | : | TM1, TM3                                                                                                                                                                                                                            |

**Figure 2: Radiated Band-Edge, TM1**

**Figure 3: Radiated Band-Edge, TM3**


### 5.3.2 Radiated Spurious Emission

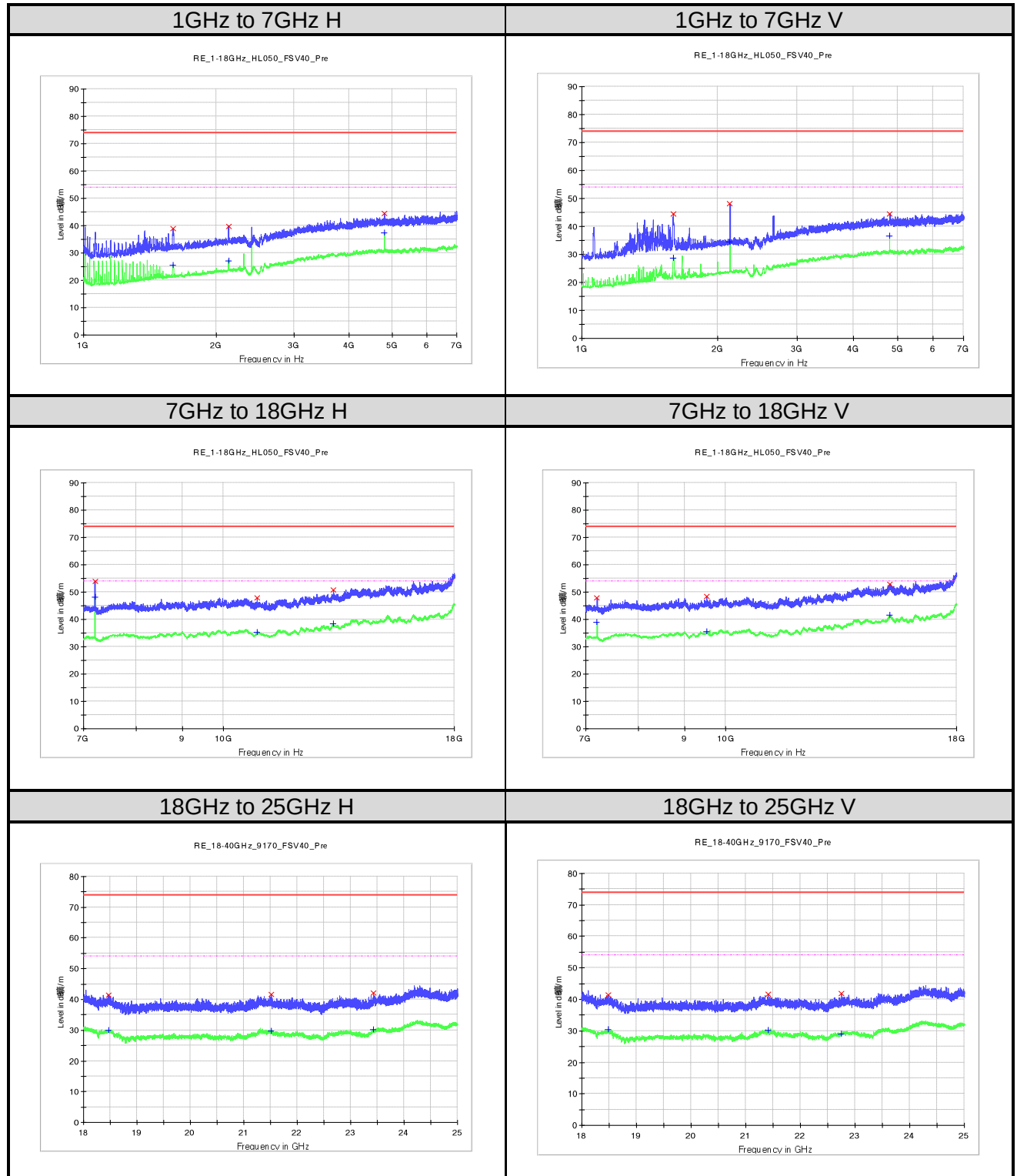
**RESULT:****Pass**

|                      |   |                                                                                                                                                   |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of testing      | : | 2022-11-21                                                                                                                                        |
| Ambient temperature  | : | 20.9°C                                                                                                                                            |
| Relative humidity    | : | 50.2%                                                                                                                                             |
| 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 2, February 2017, Clause 5.5 |
| Test procedure       | : | ANSI C63.10: 2013                                                                                                                                 |
| Test voltage         | : | DC 3.3V                                                                                                                                           |
| Test modes applied   | : | TM1 to TM3                                                                                                                                        |

**Figure 4: Radiated Spurious Emission, TM1, 30MHz to 1GHz**

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 33.815333       | 20.5               | H   | 23.4         | 19.5              | 40.0                 |
| 95.992333       | 23.2               | H   | 16.8         | 20.4              | 43.5                 |
| 126.159333      | 16.5               | H   | 18.8         | 27.1              | 43.5                 |
| 261.927000      | 20.4               | H   | 20.7         | 25.7              | 46.0                 |
| 550.502000      | 24.9               | H   | 26.3         | 21.1              | 46.0                 |
| 909.014000      | 27.0               | H   | 28.0         | 19.0              | 46.0                 |
| 33.104000       | 21.0               | V   | 23.7         | 19.0              | 40.0                 |
| 106.177333      | 15.6               | V   | 18.3         | 27.9              | 43.5                 |
| 153.448667      | 14.6               | V   | 17.0         | 28.9              | 43.5                 |
| 335.065000      | 17.9               | V   | 20.6         | 28.1              | 46.0                 |
| 717.051000      | 25.7               | V   | 26.3         | 20.3              | 46.0                 |
| 913.864000      | 28.9               | V   | 28.1         | 17.1              | 46.0                 |



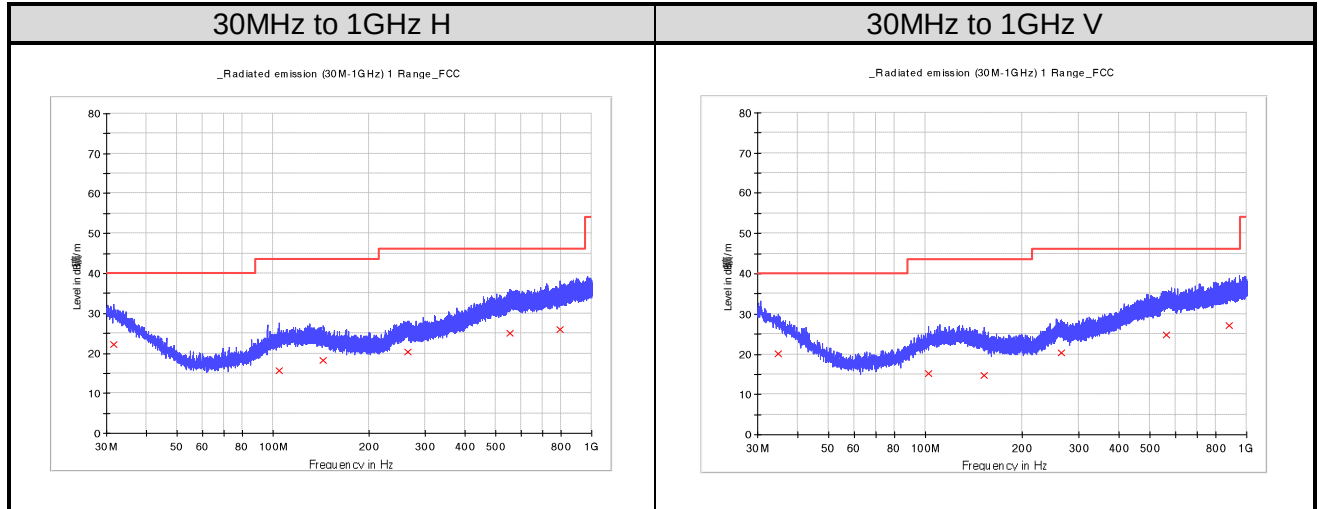
**Figure 5: Radiated Spurious Emission, TM1, 1GHz to 25GHz**


**Limit and Margin**  
**PK**

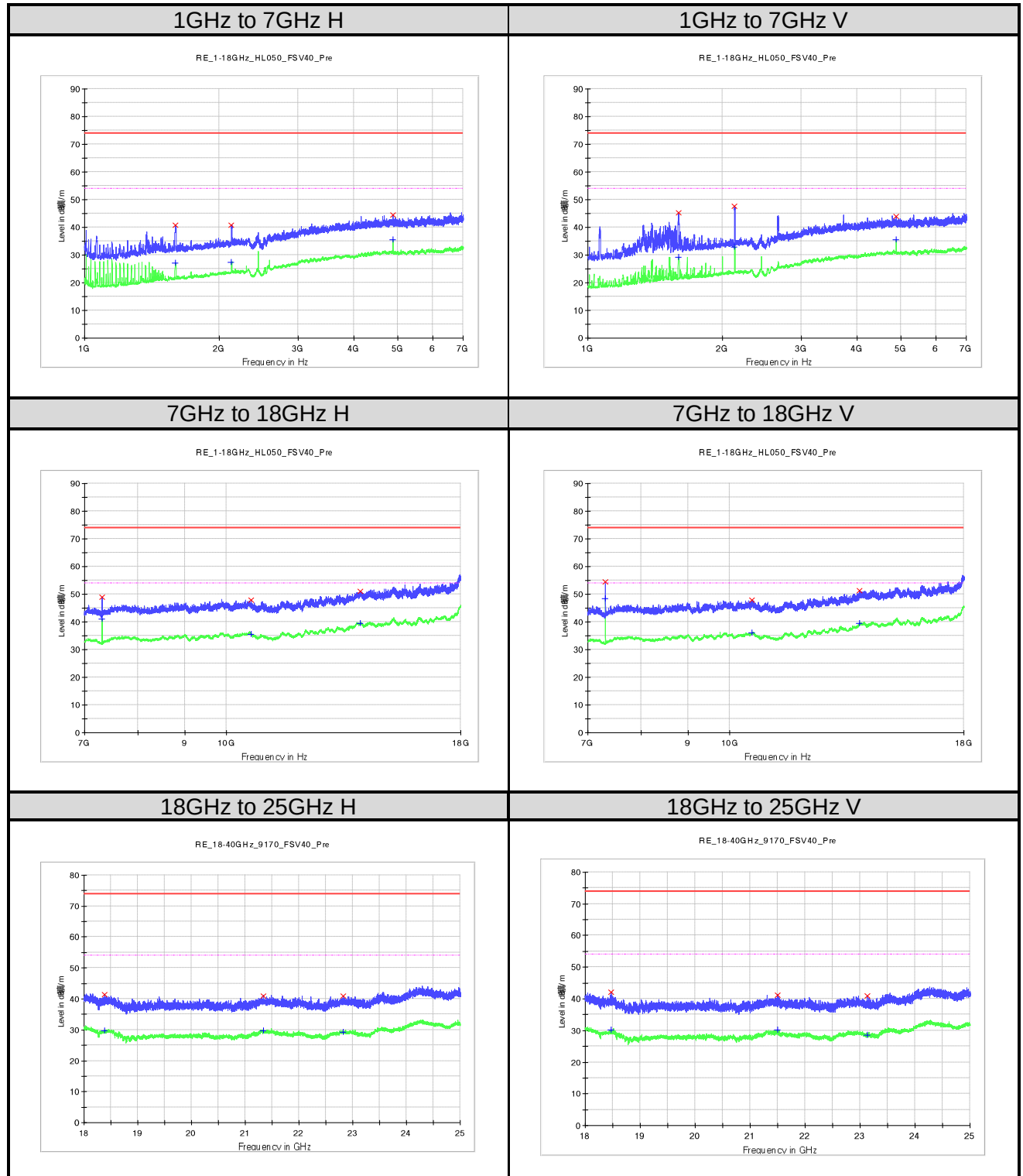
| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1597.000000     | 38.9             | H   | -18.3        | 35.1              | 74.0                 |
| 2131.750000     | 39.8             | H   | -15.7        | 34.2              | 74.0                 |
| 4804.750000     | 44.4             | H   | -6.5         | 29.6              | 74.0                 |
| 7206.250000     | 53.8             | H   | -3.9         | 20.2              | 74.0                 |
| 10895.375000    | 47.8             | H   | 0.8          | 26.2              | 74.0                 |
| 13238.375000    | 50.8             | H   | 3.3          | 23.2              | 74.0                 |
| 18476.875000    | 41.5             | H   | -9.2         | 32.5              | 74.0                 |
| 21517.500000    | 41.7             | H   | -6.0         | 32.3              | 74.0                 |
| 23431.125000    | 42.2             | H   | -4.4         | 31.8              | 74.0                 |
| 1594.000000     | 44.4             | V   | -18.4        | 29.6              | 74.0                 |
| 2123.500000     | 48.2             | V   | -15.8        | 25.8              | 74.0                 |
| 4804.000000     | 44.6             | V   | -6.5         | 29.4              | 74.0                 |
| 7204.875000     | 47.8             | V   | -3.9         | 26.2              | 74.0                 |
| 9531.375000     | 48.5             | V   | -0.7         | 25.5              | 74.0                 |
| 15195.000000    | 53.0             | V   | 6.3          | 21.0              | 74.0                 |
| 18483.875000    | 41.5             | V   | -9.2         | 32.5              | 74.0                 |
| 21412.500000    | 41.7             | V   | -6.1         | 32.3              | 74.0                 |
| 22755.625000    | 41.8             | V   | -6.1         | 32.2              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1597.000000     | 25.4             | H   | -18.3        | 28.6              | 54.0                 |
| 2131.750000     | 27.2             | H   | -15.7        | 26.8              | 54.0                 |
| 4804.750000     | 37.4             | H   | -6.5         | 16.6              | 54.0                 |
| 7206.250000     | 48.1             | H   | -3.9         | 5.9               | 54.0                 |
| 10895.375000    | 35.2             | H   | 0.8          | 18.8              | 54.0                 |
| 13238.375000    | 38.3             | H   | 3.3          | 15.7              | 54.0                 |
| 18476.875000    | 30.0             | H   | -9.2         | 24.0              | 54.0                 |
| 21517.500000    | 29.7             | H   | -6.0         | 24.3              | 54.0                 |
| 23431.125000    | 30.1             | H   | -4.4         | 23.9              | 54.0                 |
| 1594.000000     | 28.8             | V   | -18.4        | 25.2              | 54.0                 |
| 2123.500000     | 34.4             | V   | -15.8        | 19.6              | 54.0                 |
| 4804.000000     | 36.7             | V   | -6.5         | 17.3              | 54.0                 |
| 7204.875000     | 38.9             | V   | -3.9         | 15.1              | 54.0                 |
| 9531.375000     | 35.5             | V   | -0.7         | 18.5              | 54.0                 |
| 15195.000000    | 41.5             | V   | 6.3          | 12.5              | 54.0                 |
| 18483.875000    | 30.3             | V   | -9.2         | 23.7              | 54.0                 |
| 21412.500000    | 30.2             | V   | -6.1         | 23.8              | 54.0                 |
| 22755.625000    | 28.9             | V   | -6.1         | 25.1              | 54.0                 |

**Figure 6: Radiated Spurious Emission, TM2, 30MHz to 1GHz**

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 31.519667       | 22.1               | H   | 24.7         | 17.9              | 40.0                 |
| 104.787000      | 15.6               | H   | 18.2         | 27.9              | 43.5                 |
| 143.942667      | 18.3               | H   | 17.8         | 25.2              | 43.5                 |
| 264.093333      | 20.5               | H   | 20.7         | 25.6              | 46.0                 |
| 555.934000      | 25.0               | H   | 26.5         | 21.0              | 46.0                 |
| 797.076000      | 26.0               | H   | 27.5         | 20.0              | 46.0                 |
| 34.720667       | 20.0               | V   | 22.9         | 20.0              | 40.0                 |
| 101.974000      | 15.2               | V   | 17.8         | 28.3              | 43.5                 |
| 152.575667      | 14.7               | V   | 17.0         | 28.8              | 43.5                 |
| 265.128000      | 20.3               | V   | 20.7         | 25.7              | 46.0                 |
| 562.756333      | 24.8               | V   | 26.2         | 21.2              | 46.0                 |
| 883.567667      | 27.1               | V   | 28.0         | 19.0              | 46.0                 |

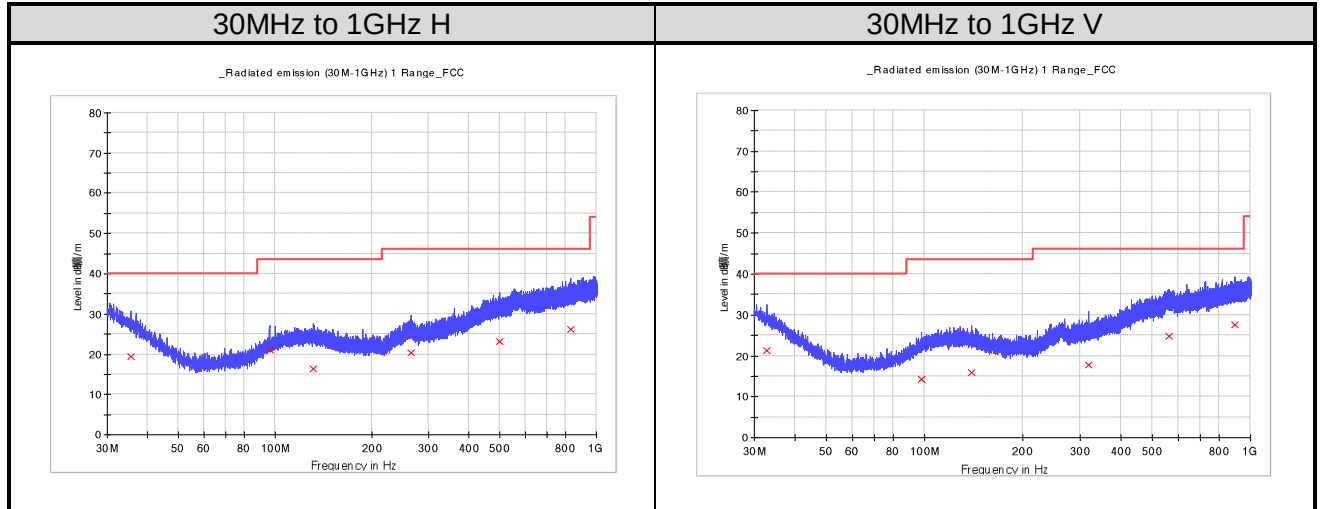
**Figure 7: Radiated Spurious Emission, TM2, 1GHz to 25GHz**


**Limit and Margin**
**PK**

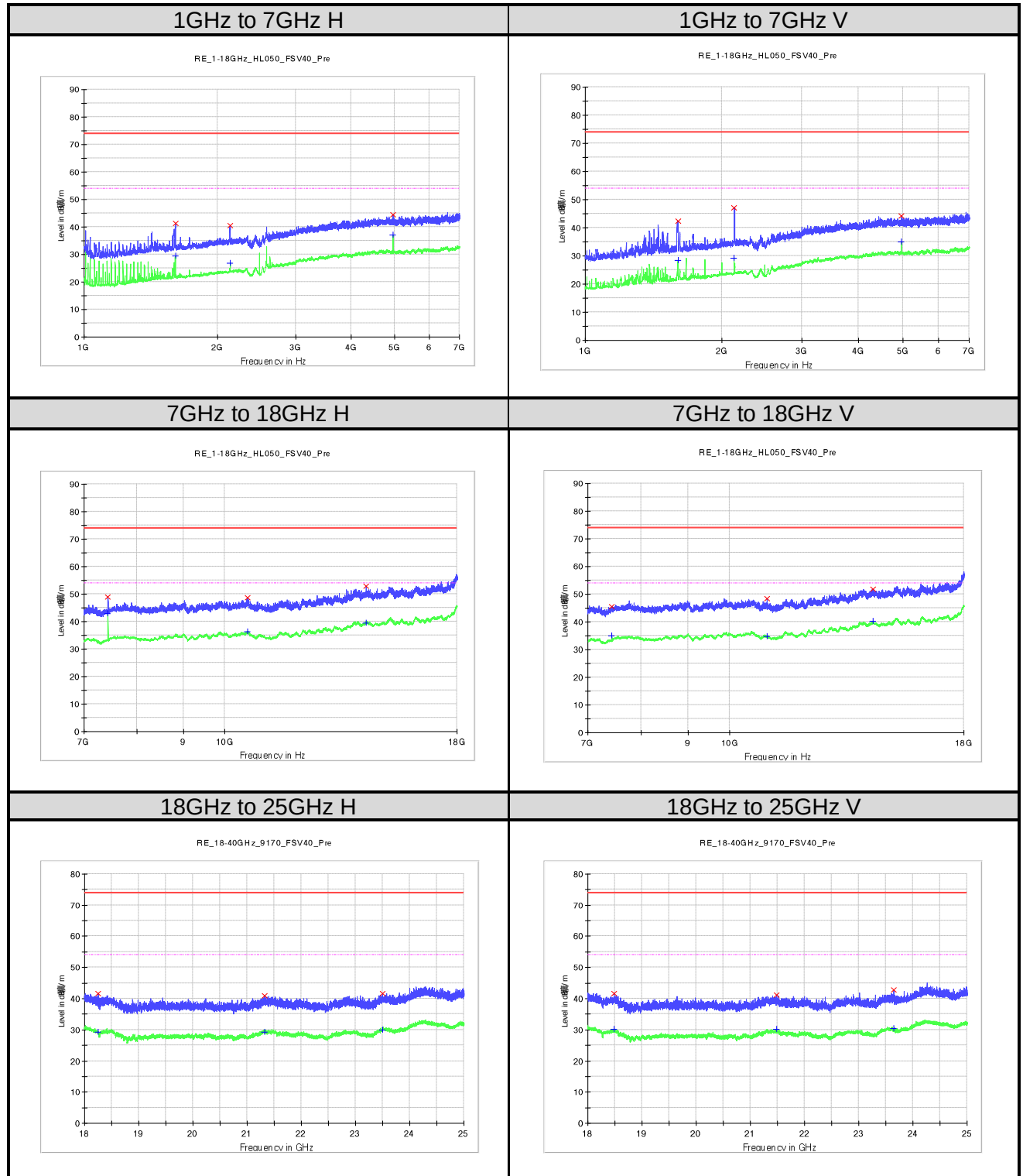
| Frequency (MHz) | MaxPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1596.250000     | 40.9             | H   | -18.3        | 33.1              | 74.0                 |
| 2124.250000     | 40.9             | H   | -15.8        | 33.1              | 74.0                 |
| 4880.500000     | 44.5             | H   | -6.5         | 29.5              | 74.0                 |
| 7320.375000     | 49.0             | H   | -4.0         | 25.0              | 74.0                 |
| 10643.750000    | 47.9             | H   | 1.0          | 26.1              | 74.0                 |
| 14001.500000    | 51.0             | H   | 4.6          | 23.0              | 74.0                 |
| 18387.625000    | 41.5             | H   | -9.1         | 32.5              | 74.0                 |
| 21335.500000    | 41.0             | H   | -6.3         | 33.0              | 74.0                 |
| 22825.625000    | 40.9             | H   | -5.9         | 33.1              | 74.0                 |
| 1595.500000     | 45.3             | V   | -18.3        | 28.7              | 74.0                 |
| 2128.000000     | 47.5             | V   | -15.7        | 26.5              | 74.0                 |
| 4879.750000     | 44.0             | V   | -6.5         | 30.0              | 74.0                 |
| 7320.375000     | 54.5             | V   | -4.0         | 19.5              | 74.0                 |
| 10580.500000    | 48.0             | V   | 1.0          | 26.0              | 74.0                 |
| 13837.875000    | 51.4             | V   | 3.9          | 22.6              | 74.0                 |
| 18476.000000    | 42.1             | V   | -9.2         | 31.9              | 74.0                 |
| 21501.750000    | 41.1             | V   | -6.0         | 32.9              | 74.0                 |
| 23125.750000    | 41.0             | V   | -5.1         | 33.0              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBµV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1596.250000     | 27.2             | H   | -18.3        | 26.8              | 54.0                 |
| 2124.250000     | 27.5             | H   | -15.8        | 26.5              | 54.0                 |
| 4880.500000     | 35.5             | H   | -6.5         | 18.5              | 54.0                 |
| 7320.375000     | 41.0             | H   | -4.0         | 13.0              | 54.0                 |
| 10643.750000    | 35.5             | H   | 1.0          | 18.5              | 54.0                 |
| 14001.500000    | 39.6             | H   | 4.6          | 14.4              | 54.0                 |
| 18387.625000    | 29.6             | H   | -9.1         | 24.4              | 54.0                 |
| 21335.500000    | 29.7             | H   | -6.3         | 24.3              | 54.0                 |
| 22825.625000    | 29.3             | H   | -5.9         | 24.7              | 54.0                 |
| 1595.500000     | 29.2             | V   | -18.3        | 24.8              | 54.0                 |
| 2128.000000     | 32.9             | V   | -15.7        | 21.1              | 54.0                 |
| 4879.750000     | 35.5             | V   | -6.5         | 18.5              | 54.0                 |
| 7320.375000     | 48.3             | V   | -4.0         | 5.7               | 54.0                 |
| 10580.500000    | 36.0             | V   | 1.0          | 18.0              | 54.0                 |
| 13837.875000    | 39.4             | V   | 3.9          | 14.6              | 54.0                 |
| 18476.000000    | 30.1             | V   | -9.2         | 23.9              | 54.0                 |
| 21501.750000    | 30.1             | V   | -6.0         | 23.9              | 54.0                 |
| 23125.750000    | 28.6             | V   | -5.1         | 25.4              | 54.0                 |

**Figure 8: Radiated Spurious Emission, TM3, 30MHz to 1GHz**

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Pol | Corr. (dB/m) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----|--------------|-------------------|----------------------|
| 35.529000       | 19.4               | H   | 22.5         | 20.6              | 40.0                 |
| 95.960000       | 21.1               | H   | 16.8         | 22.4              | 43.5                 |
| 131.656000      | 16.4               | H   | 18.6         | 27.1              | 43.5                 |
| 265.322000      | 20.4               | H   | 20.6         | 25.6              | 46.0                 |
| 501.355333      | 23.2               | H   | 25.0         | 22.8              | 46.0                 |
| 833.936000      | 26.3               | H   | 27.5         | 19.7              | 46.0                 |
| 32.813000       | 21.3               | V   | 23.9         | 18.7              | 40.0                 |
| 97.673667       | 14.2               | V   | 17.0         | 29.3              | 43.5                 |
| 139.545333      | 15.8               | V   | 18.1         | 27.7              | 43.5                 |
| 319.286333      | 17.7               | V   | 20.6         | 28.3              | 46.0                 |
| 560.557667      | 24.9               | V   | 26.3         | 21.2              | 46.0                 |
| 895.466333      | 27.5               | V   | 28.4         | 18.5              | 46.0                 |

**Figure 9: Radiated Spurious Emission, TM3, 1GHz to 25GHz**


**Limit and Margin**
**PK**

| Frequency (MHz) | MaxPeak (dBμV/m) | Pol | Corr. (dB/m) | Margin - PK+ (dB) | Limit - PK+ (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1606.750000     | 41.2             | H   | -18.3        | 32.8              | 74.0                 |
| 2131.000000     | 40.4             | H   | -15.7        | 33.6              | 74.0                 |
| 4960.000000     | 44.5             | H   | -6.6         | 29.5              | 74.0                 |
| 7440.000000     | 49.0             | H   | -3.1         | 25.0              | 74.0                 |
| 10587.375000    | 48.6             | H   | 1.1          | 25.4              | 74.0                 |
| 14287.500000    | 52.8             | H   | 4.8          | 21.2              | 74.0                 |
| 18246.750000    | 41.6             | H   | -9.0         | 32.4              | 74.0                 |
| 21324.125000    | 40.9             | H   | -6.3         | 33.1              | 74.0                 |
| 23503.750000    | 41.6             | H   | -4.2         | 32.4              | 74.0                 |
| 1599.250000     | 42.5             | V   | -18.3        | 31.5              | 74.0                 |
| 2124.250000     | 47.1             | V   | -15.8        | 26.9              | 74.0                 |
| 4960.000000     | 44.3             | V   | -6.6         | 29.7              | 74.0                 |
| 7440.000000     | 45.5             | V   | -3.1         | 28.5              | 74.0                 |
| 10979.250000    | 48.4             | V   | 1.0          | 25.6              | 74.0                 |
| 14324.625000    | 51.8             | V   | 4.9          | 22.2              | 74.0                 |
| 18482.125000    | 41.7             | V   | -9.2         | 32.3              | 74.0                 |
| 21478.125000    | 41.1             | V   | -6.0         | 32.9              | 74.0                 |
| 23645.500000    | 42.7             | V   | -4.2         | 31.3              | 74.0                 |

**AV**

| Frequency (MHz) | Average (dBμV/m) | Pol | Corr. (dB/m) | Margin - AVG (dB) | Limit - AVG (dBμV/m) |
|-----------------|------------------|-----|--------------|-------------------|----------------------|
| 1606.750000     | 29.5             | H   | -18.3        | 24.5              | 54.0                 |
| 2131.000000     | 26.9             | H   | -15.7        | 27.1              | 54.0                 |
| 4960.000000     | 37.2             | H   | -6.6         | 16.8              | 54.0                 |
| 7440.000000     | 42.8             | H   | -3.1         | 11.2              | 54.0                 |
| 10587.375000    | 36.4             | H   | 1.1          | 17.6              | 54.0                 |
| 14287.500000    | 39.4             | H   | 4.8          | 14.6              | 54.0                 |
| 18246.750000    | 29.2             | H   | -9.0         | 24.8              | 54.0                 |
| 21324.125000    | 29.2             | H   | -6.3         | 24.8              | 54.0                 |
| 23503.750000    | 30.0             | H   | -4.2         | 24.0              | 54.0                 |
| 1599.250000     | 28.5             | V   | -18.3        | 25.5              | 54.0                 |
| 2124.250000     | 29.1             | V   | -15.8        | 24.9              | 54.0                 |
| 4960.000000     | 35.0             | V   | -6.6         | 19.0              | 54.0                 |
| 7440.000000     | 35.1             | V   | -3.1         | 18.9              | 54.0                 |
| 10979.250000    | 34.8             | V   | 1.0          | 19.2              | 54.0                 |
| 14324.625000    | 40.2             | V   | 4.9          | 13.8              | 54.0                 |
| 18482.125000    | 30.2             | V   | -9.2         | 23.8              | 54.0                 |
| 21478.125000    | 30.2             | V   | -6.0         | 23.8              | 54.0                 |
| 23645.500000    | 30.5             | V   | -4.2         | 23.5              | 54.0                 |



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