

|                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                         |                                                  |                                         |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------|--------------------------------|
| <b>Prüfbericht-Nr.:</b><br>Test report no.:                                                                                                                                                                                                                                                                                                                                                                                                                | <b>CN25NQ2K 001</b>                                                                                                                                                                                                                                                                                                                     | <b>Auftrags-Nr.:</b><br>Order no.:               | 180324816                               | Seite 1 von 48<br>Page 1 of 48 |
| <b>Kunden-Referenz-Nr.:</b><br>Client reference no.:                                                                                                                                                                                                                                                                                                                                                                                                       | N/A                                                                                                                                                                                                                                                                                                                                     | <b>Auftragsdatum:</b><br>Order date:             | 2025.02.25                              |                                |
| <b>Auftraggeber:</b><br>Client:                                                                                                                                                                                                                                                                                                                                                                                                                            | Ningbo Dooya Mechanic & Electronic Technology Co., Ltd.<br>No.168 Shengguang Road, Luotuo, Zhenhai, Ningbo ZHEJIANG, China                                                                                                                                                                                                              |                                                  |                                         |                                |
| <b>Prüfgegenstand:</b><br>Test item:                                                                                                                                                                                                                                                                                                                                                                                                                       | Controller                                                                                                                                                                                                                                                                                                                              |                                                  |                                         |                                |
| <b>Bezeichnung / Typ-Nr.:</b><br>Identification / Type no.:                                                                                                                                                                                                                                                                                                                                                                                                | DC1583L, DC1583R                                                                                                                                                                                                                                                                                                                        |                                                  |                                         |                                |
| <b>Auftrags-Inhalt:</b><br>Order content:                                                                                                                                                                                                                                                                                                                                                                                                                  | TÜV Rheinland – FCC&IC Service                                                                                                                                                                                                                                                                                                          |                                                  |                                         |                                |
| <b>Prüfgrundlage:</b><br>Test specification:                                                                                                                                                                                                                                                                                                                                                                                                               | <b>FCC Part 15.203</b><br><b>FCC Part 15.247</b>                                                                                                                                                                                                                                                                                        | <b>RSS-247 Issue 3</b><br><b>RSS-Gen Issue 5</b> |                                         |                                |
| <b>Wareneingangsdatum:</b><br>Date of sample receipt:                                                                                                                                                                                                                                                                                                                                                                                                      | 2025.04.24                                                                                                                                                                                                                                                                                                                              | Refer to Photo Documentation                     |                                         |                                |
| <b>Prüfmuster-Nr.:</b><br>Test sample no.:                                                                                                                                                                                                                                                                                                                                                                                                                 | A003979383-001                                                                                                                                                                                                                                                                                                                          |                                                  |                                         |                                |
| <b>Prüfzeitraum:</b><br>Testing period:                                                                                                                                                                                                                                                                                                                                                                                                                    | 2025.04.28 - 2025.05.16                                                                                                                                                                                                                                                                                                                 |                                                  |                                         |                                |
| <b>Ort der Prüfung:</b><br>Place of testing:                                                                                                                                                                                                                                                                                                                                                                                                               | Refer to section 1.1                                                                                                                                                                                                                                                                                                                    |                                                  |                                         |                                |
| <b>Prüflaboratorium:</b><br>Testing laboratory:                                                                                                                                                                                                                                                                                                                                                                                                            | TÜV Rheinland / CCIC<br>(Ningbo) Co., Ltd.                                                                                                                                                                                                                                                                                              |                                                  |                                         |                                |
| <b>Prüfergebnis*:</b><br>Test result*:                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Pass</b>                                                                                                                                                                                                                                                                                                                             |                                                  |                                         |                                |
| <b>geprüft von:</b><br>tested by:                                                                                                                                                                                                                                                                                                                                                                                                                          | <i>Keda Zhou</i>                                                                                                                                                                                                                                                                                                                        |                                                  | <b>genehmigt von:</b><br>authorized by: | <i>Chonghai Liang</i>          |
| <b>Datum:</b><br>Date:                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2025.07.17                                                                                                                                                                                                                                                                                                                              |                                                  | <b>Ausstelldatum:</b><br>Issue date:    | 2025.07.17                     |
| <b>Stellung / Position:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                | Keda Zhou/PE                                                                                                                                                                                                                                                                                                                            |                                                  | <b>Stellung / Position:</b>             | Chonghai Liang/Authorizer      |
| <b>Sonstiges / Other:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | FCC ID: VYYDC1583RL<br>IC: 21396-DC1583RL<br>HVIN: DC1583L, DC1583R<br>Both models use the same schematic design and BLE module, and the different between them is the layout of the base board. According to above information, the conducted tests are performed on model DC1583L, and the radiated test is performed on both models. |                                                  |                                         |                                |
| <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 N/T = nicht getestet<br>* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                         |                                                  |                                         |                                |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><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> |                                                                                                                                                                                                                                                                                                                                         |                                                  |                                         |                                |

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Test report no.:

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## Anmerkungen Remarks

Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.

Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.

*The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system.*

*Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*

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Prüfklausel mit der Note \* wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.

*Test clauses with remark of \* are subcontracted to qualified subcontractors and described under the respective test clause in the report.*

*Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*

Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.

*The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.*

## Test Summary

### 4.1.1 ANTENNA REQUIREMENT

Result:

Pass

### 4.1.2 6dB BANDWIDTH

Result:

Pass

Pass

### 4.1.3 99% EMISSION BANDWIDTH MEASUREMENT

Result:

Pass

### 4.1.4 MAXIMUM PEAK CONDUCTED OUTPUT POWER

Result:

Pass

### 4.1.5 EQUIVALENT ISOTROPICALLY RADIATED POWER

Result:

Pass

### 4.1.6 POWER SPECTRAL DENSITY

Result:

Pass

### 4.1.7 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

Result:

Pass

### 4.1.8 CONDUCTED EMISSION (AC POWER-LINE)

Result:

N/A

### 4.1.9 RADIATED EMISSION

Result:

Pass

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## 1. Test Sites

### 1.1 Test Facilities

**Laboratory: TÜV Rheinland /CCIC (Ningbo) Co., Ltd.**

**1st Floor, Building 11, Scholar Innovation Park, No.1188 Zhongguan Road, Zhenhai District, Ningbo 315200 P.R. China**

**FCC Designation Number: CN1237**

**FCC Test Firm Registration Number: 647754**

**IC Company Number: 24297**

**CAB identifier: CN0047**

The test equipment used is in accordance with CISPR 16-1 series standards.

### 1.2 List of Test and Measurement Instruments

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

| Kind of Equipment       | Type          | Serial No.   | Last cal. date | Cal. due date |
|-------------------------|---------------|--------------|----------------|---------------|
| EMI test receiver       | ESR3          | 102331       | 2024.10.23     | 2025.10.22    |
| LISN                    | ENV216        | 102250       | 2024.10.23     | 2025.10.22    |
| EMI test receiver       | ESR7          | 101929       | 2024.10.23     | 2025.10.22    |
| Spectrum analyzer       | FSV40         | 101412       | 2024.10.23     | 2025.10.22    |
| Bilog Antenna           | CBL6112D      | 49033        | 2024.03.17     | 2027.03.16    |
| Horn antenna            | HF907         | 102653       | 2023.07.20     | 2026.07.19    |
| Broad-Band Horn Antenna | BBHA 9170     | 899          | 2024.01.05     | 2027.01.04    |
| Pre-amplifier           | SCU-18F       | 180051       | 2024.10.23     | 2025.10.22    |
| Pre-amplifier           | LNPA_1840G-50 | SK2021040801 | 2024.10.28     | 2025.10.27    |
| RF control Unit         | JS0806-2      | 22G8060598   | 2024.10.25     | 2025.10.24    |
| Mains control unit      | JS0806-4ADC   | 21L8060536   | 2024.10.23     | 2025.10.22    |

### 1.3 Uncertainty of Measurement

**Table 2: Measurement Uncertainty**

| Test Item                       | Expanded Measurement Uncertainty (k=2) |
|---------------------------------|----------------------------------------|
| Conducted Emission (9-150kHz)   | ±3.70 dB                               |
| Conducted Emission (150k-30MHz) | ±3.30 dB                               |
| Occupied Channel Bandwidth      | ±5 %                                   |
| Radiated Emission (30-1000MHz)  | ±4.39 dB                               |
| Radiated Emission (1-18GHz)     | ±4.67 dB                               |

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## 2. General Product Information

### 2.1 Product Function and Intended Use

The EUT (equipment under test) is a Controller operated at 2400-2483.5MHz.

For more detailed information, refer to the user's manual.

### 2.2 Ratings and System Details

**Table 3: General Description of EUT**

| General Description of EUT                 |                                |
|--------------------------------------------|--------------------------------|
| Input Voltage:                             | DC 7.2V                        |
| Protection Class:                          | Class III                      |
| Technical Specification of Bluetooth (BLE) |                                |
| Frequency Range:                           | 2402 – 2480MHz                 |
| Modulation Type:                           | GFSK                           |
| Data Rate:                                 | 1Mbps, 2Mbps, 125Kbps, 500Kbps |
| Channel:                                   | 0-39                           |
| Antenna Type:                              | Chip Antenna                   |
| Antenna Gain:                              | 2.62 dBi                       |

**Table 4: Channel List**

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

## **2.3 Independent Operation Modes**

There are some modes:

Mode A: Transmitting continuously of BLE 1Mbps

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode B: Transmitting continuously of BLE 2Mbps

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode C: Transmitting continuously of BLE 125Kbps

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Mode D: Transmitting continuously of BLE 500Kbps

1. Channel 2402MHz
2. Channel 2440MHz
3. Channel 2480MHz

Refer to the user's manual for further information.

## **2.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram for further information.

## **2.5 Submitted Documents**

Circuit diagram, label, user manual etc.

### 3. Test Set-up and Operation Modes

#### 3.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

#### 3.2 Test Operation and Test Software

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power was selected according to the instruction given by the manufacturer. The setting of the RF output power expected by the customer shall be fixed on the firmware of the final end product.

All testing were performed according to the procedures in ANSI C63.10: 2020.

Test Software EMC32 V10.30 was used in the radiated emission test.

More details refer to the related paragraph of this report.

#### 3.3 Special Accessories and Auxiliary Equipment

Table 5: List of Auxiliary Equipment

| Description | Manufacturer | Model No.          |
|-------------|--------------|--------------------|
| Battery Bar | Ningbo Dooya | DC1756             |
| DC Motor*2  | Ningbo Dooya | DV24AG             |
| Notebook    | Lenovo       | ThinkPad X380 Yoga |

#### 3.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Circuit Diagram. No additional measures were employed to achieve compliance.

### 3.5 Test set-up

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

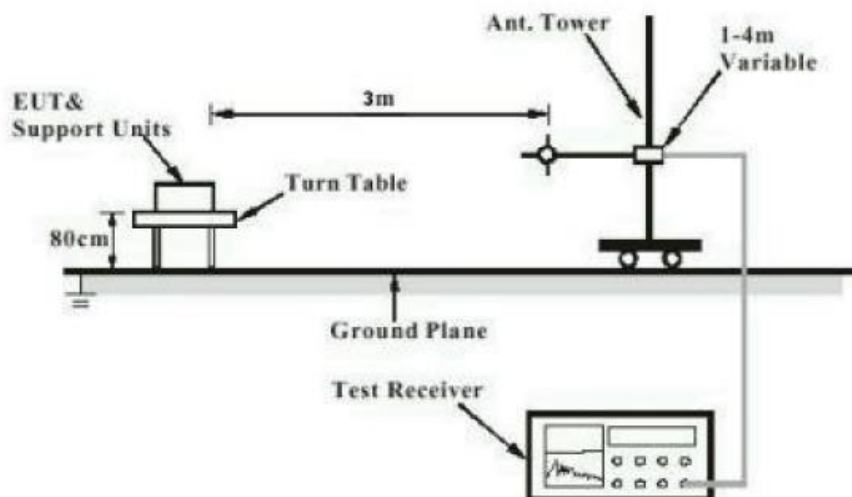


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

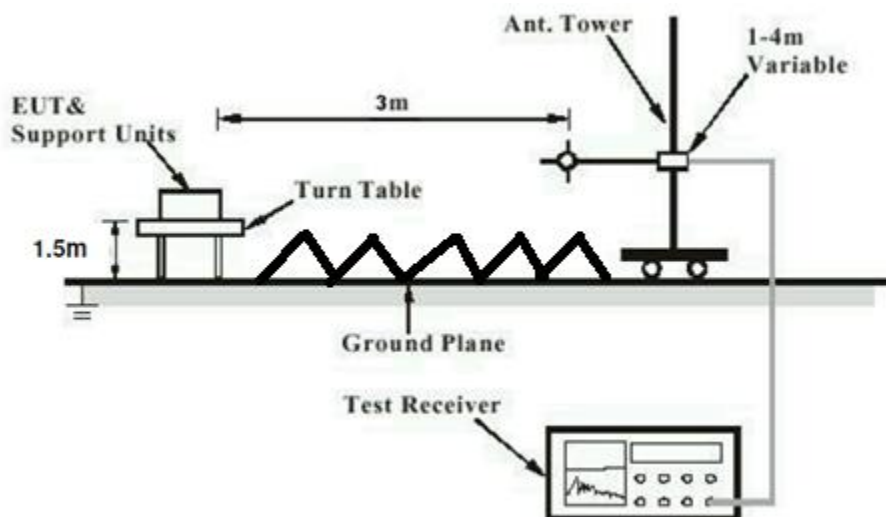
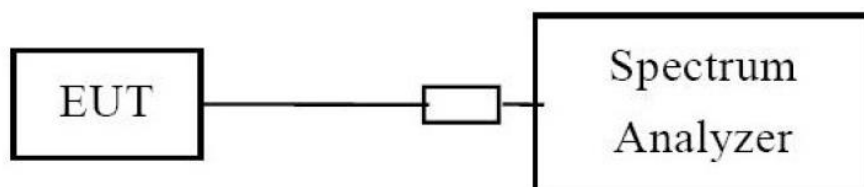


Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 4. Test Results

### 4.1 Transmitter Requirement & Test Suites

#### 4.1.1 Antenna Requirement

**Result:**

**Pass**

Test Specification

Test standard

: FCC Part 15.203  
RSS-Gen Issue 5

Limit

: FCC: the use of antennas with directional gains that do not exceed 6 dBi  
RSS: Use of approved antennas only

According to the manufacturer declared, the EUT has a chip antenna (Antenna Gain: 2.62 dBi), and no consideration of replacement. Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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## 4.1.2 6dB Bandwidth

### Result:

Pass

Test Specification

Test standard : FCC Part 15.247 (a)(2)  
RSS-247 Issue 3, Clause 5.2(a)

Basic standard : ANSI C63.10: 2020, Clause 11.8.1

Limits : At least 500kHz

Kind of test site : Shielded Room

### Test Setup

Date of testing : 2025.05.16

Input voltage : DC 7.2V

Operational mode : A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

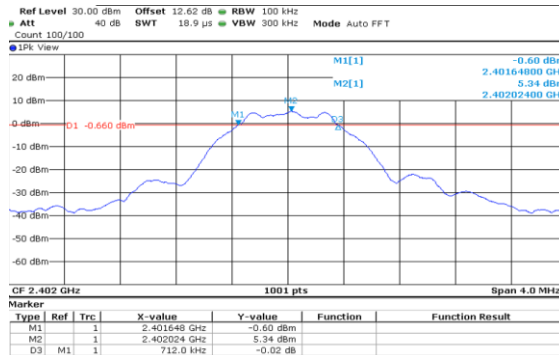
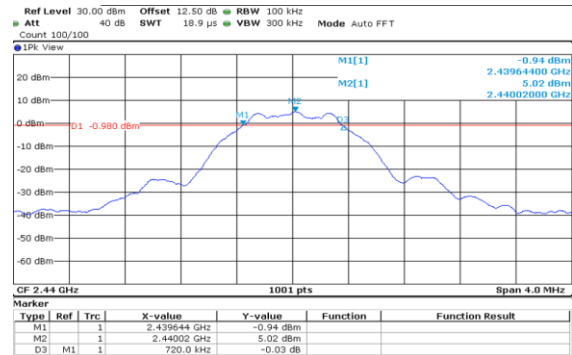
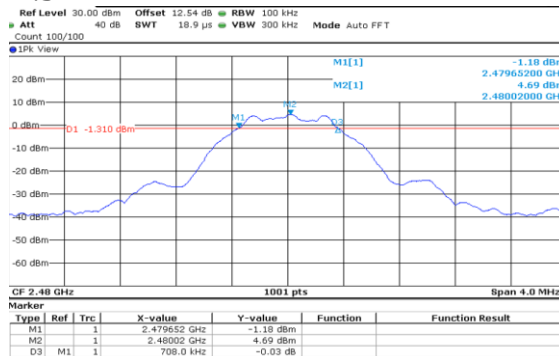
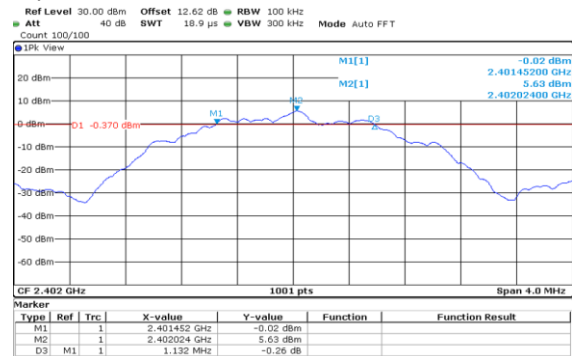
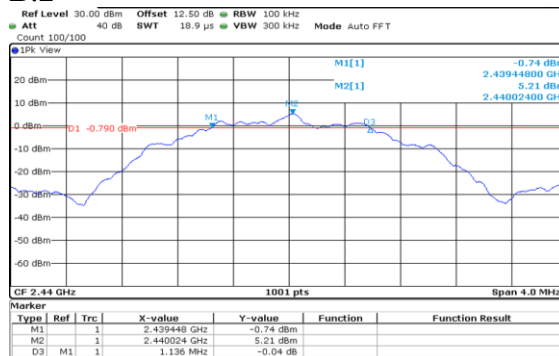
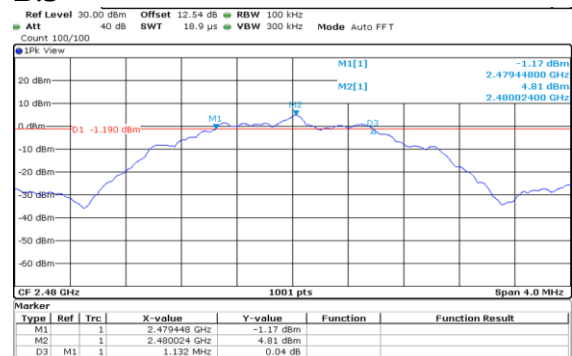
Temperature : 23°C

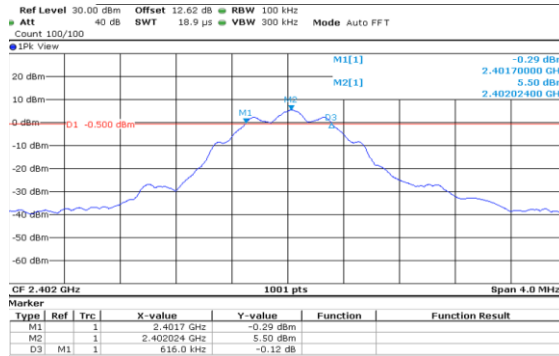
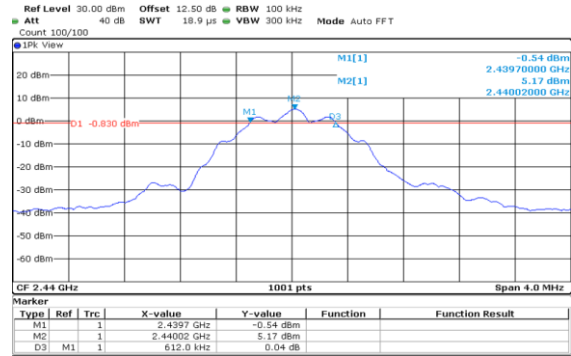
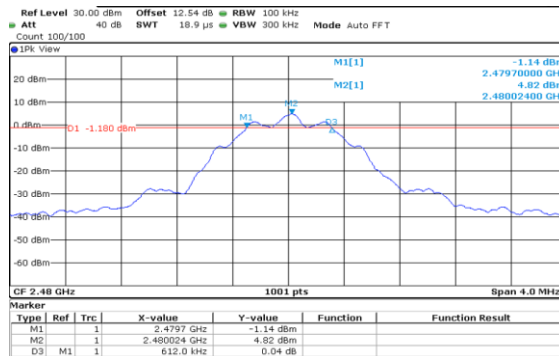
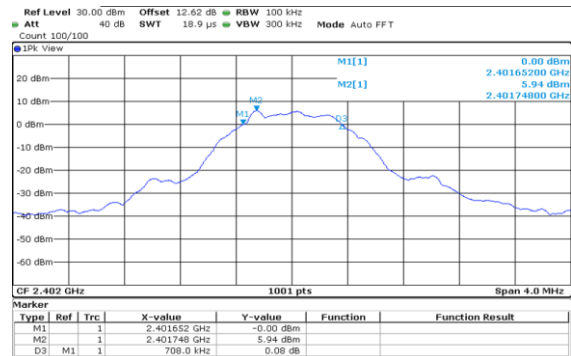
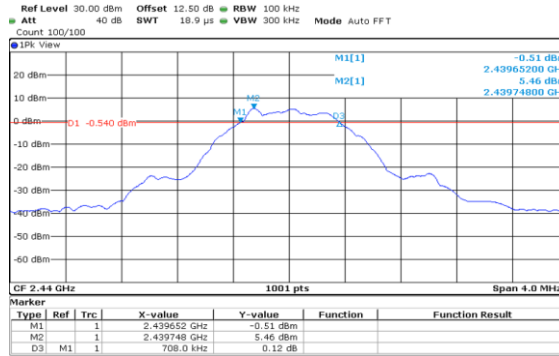
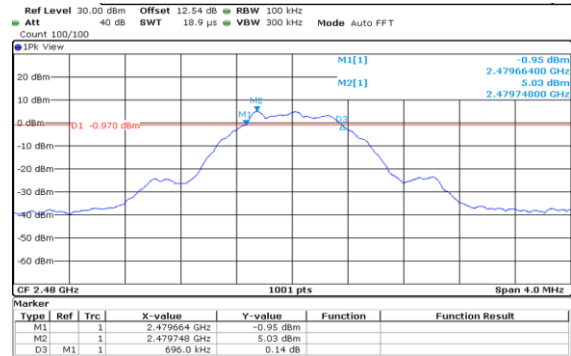
Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

**Table 6: Test result of 6dB Bandwidth**

| Mode | Bandwidth (kHz) | Limit (kHz) | Verdict |
|------|-----------------|-------------|---------|
| A.1  | 710             | ≥500        | Pass    |
| A.2  | 720             | ≥500        | Pass    |
| A.3  | 710             | ≥500        | Pass    |
| B.1  | 1130            | ≥500        | Pass    |
| B.2  | 1140            | ≥500        | Pass    |
| B.3  | 1130            | ≥500        | Pass    |
| C.1  | 610             | ≥500        | Pass    |
| C.2  | 610             | ≥500        | Pass    |
| C.3  | 610             | ≥500        | Pass    |
| D.1  | 710             | ≥500        | Pass    |
| D.2  | 710             | ≥500        | Pass    |
| D.3  | 700             | ≥500        | Pass    |

**Figure 1: 6dB Bandwidth Measurement**
**A.1**

**A.2**

**A.3**

**B.1**

**B.2**

**B.3**


**C.1**

**C.2**

**C.3**

**D.1**

**D.2**

**D.3**


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### 4.1.3 99% Emission Bandwidth Measurement

Result:

Pass

Test Specification

Test standard : RSS-Gen Issue 5, Clause 6.7

Basic standard : ANSI C63.10: 2020, Clause 6.9.3

Kind of test site : Shielded Room

#### Test Setup

Date of testing : 2025.05.16

Input voltage : DC 7.2V

Operational mode : A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

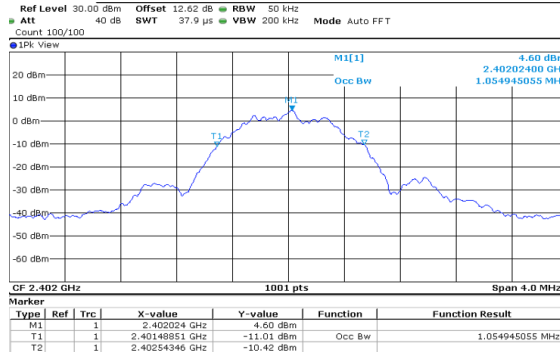
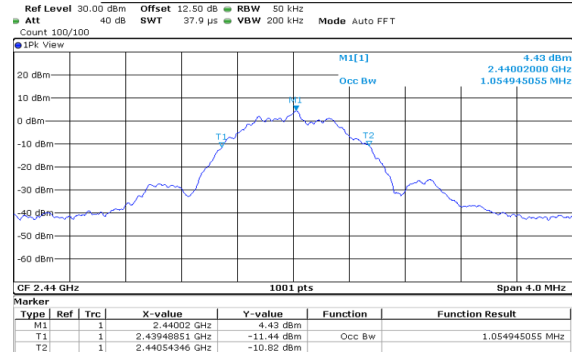
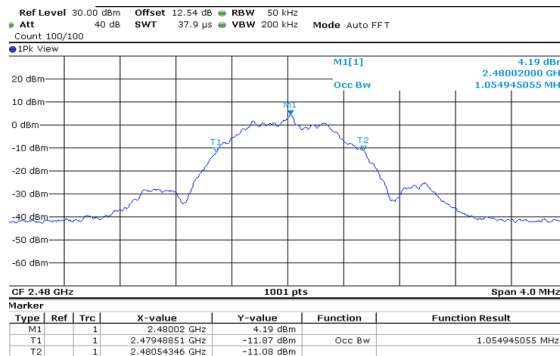
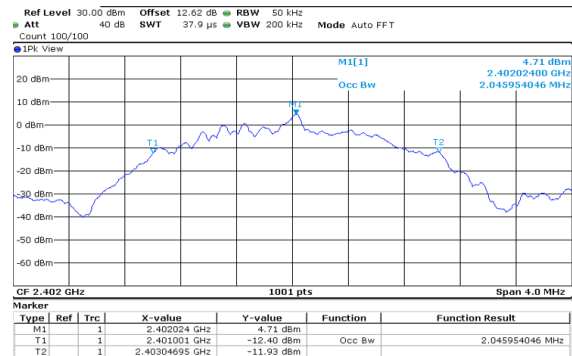
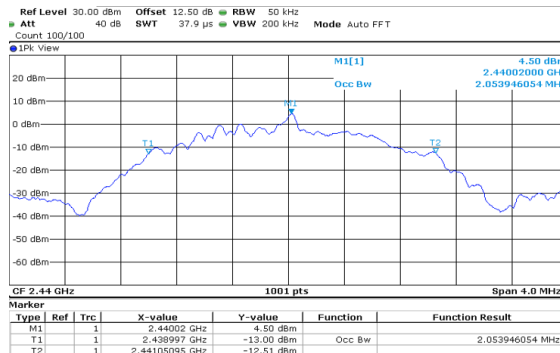
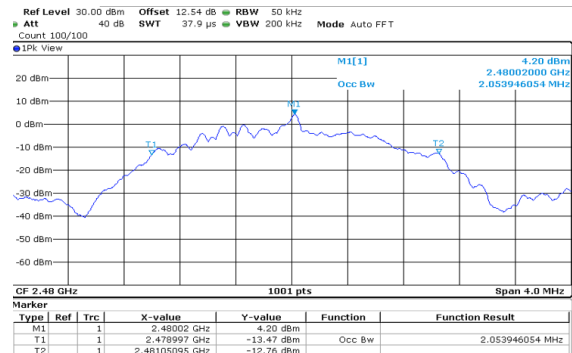
Temperature : 23°C

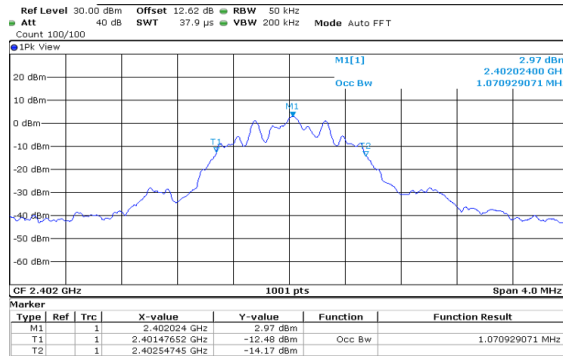
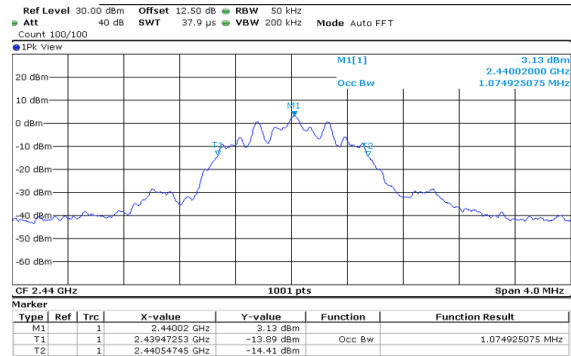
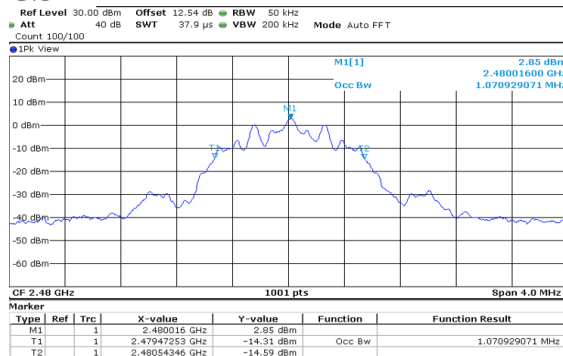
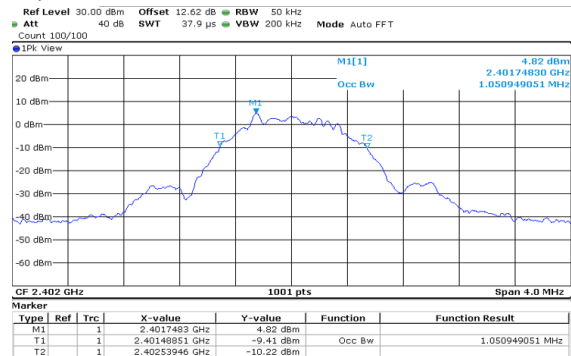
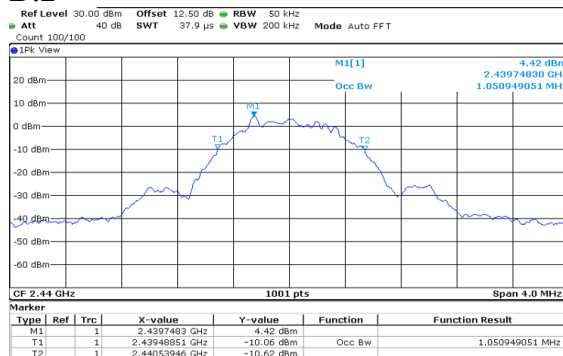
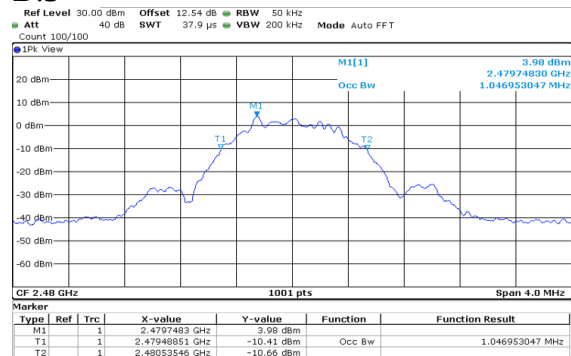
Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

Table 7: Test result of 99% Emission Bandwidth

| Mode | Bandwidth (MHz) | Limit (MHz) | Verdict |
|------|-----------------|-------------|---------|
| A.1  | 1.055           | N/A         | Pass    |
| A.2  | 1.055           | N/A         | Pass    |
| A.3  | 1.055           | N/A         | Pass    |
| B.1  | 2.046           | N/A         | Pass    |
| B.2  | 2.054           | N/A         | Pass    |
| B.3  | 2.054           | N/A         | Pass    |
| C.1  | 1.071           | N/A         | Pass    |
| C.2  | 1.075           | N/A         | Pass    |
| C.3  | 1.071           | N/A         | Pass    |
| D.1  | 1.051           | N/A         | Pass    |
| D.2  | 1.051           | N/A         | Pass    |
| D.3  | 1.047           | N/A         | Pass    |

**Figure 2: 99% Emission Bandwidth Measurement**
**A.1**

**A.2**

**A.3**

**B.1**

**B.2**

**B.3**


**C.1**

**C.2**

**C.3**

**D.1**

**D.2**

**D.3**


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#### 4.1.4 Maximum Peak Conducted Output Power

**Result:**

**Pass**

Test Specification

Test standard : FCC Part 15.247 (b)(3)

RSS-247 Issue 3, Clause 5.4(d)

Basic standard : ANSI C63.10: 2020, Clause 11.9.1

Limits : Not more than 1Watt(30dBm)

Kind of test site : Shielded Room

#### Test Setup

Date of testing : 2025.05.16

Input voltage : DC 7.2V

Operational mode : A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

Temperature : 23°C

Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

**Table 8: Test result of Maximum Peak Conducted Output Power**

| Mode | Output Power (dBm) | Limit (dBm) | Verdict |
|------|--------------------|-------------|---------|
| A.1  | 5.72               | ≤30         | Pass    |
| A.2  | 5.39               | ≤30         | Pass    |
| A.3  | 5.03               | ≤30         | Pass    |
| B.1  | 6.01               | ≤30         | Pass    |
| B.2  | 5.55               | ≤30         | Pass    |
| B.3  | 5.15               | ≤30         | Pass    |
| C.1  | 6.15               | ≤30         | Pass    |
| C.2  | 5.65               | ≤30         | Pass    |
| C.3  | 5.25               | ≤30         | Pass    |
| D.1  | 6.19               | ≤30         | Pass    |
| D.2  | 5.72               | ≤30         | Pass    |
| D.3  | 5.32               | ≤30         | Pass    |

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## 4.1.5 Equivalent Isotropically Radiated Power

**Result:**

**Pass**

Test Specification

Test standard : RSS-247 Issue 3, Clause 5.4(d)

Basic standard : ANSI C63.10: 2020, Clause 9.5

Limits : Not more than 4Watt(36dBm)

Kind of test site : Shielded Room

### Test Setup

Date of testing : 2025.05.16

Input voltage : DC 7.2V

Operational mode : A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

Temperature : 23°C

Relative humidity : 56%

Atmospheric pressure : 101.2 kPa

**Table 9: Test result of E.I.R.P.**

| Mode | Peak Output Power (dBm) | Antenna Gain (dBi) | E.I.R.P. (dBm) | Limit (dBm) | Verdict |
|------|-------------------------|--------------------|----------------|-------------|---------|
| A.1  | 5.72                    | 2.62               | 8.34           | ≤36         | Pass    |
| A.2  | 5.39                    | 2.62               | 8.01           | ≤36         | Pass    |
| A.3  | 5.03                    | 2.62               | 7.65           | ≤36         | Pass    |
| B.1  | 6.01                    | 2.62               | 8.63           | ≤36         | Pass    |
| B.2  | 5.55                    | 2.62               | 8.17           | ≤36         | Pass    |
| B.3  | 5.15                    | 2.62               | 7.77           | ≤36         | Pass    |
| C.1  | 6.15                    | 2.62               | 8.77           | ≤36         | Pass    |
| C.2  | 5.65                    | 2.62               | 8.27           | ≤36         | Pass    |
| C.3  | 5.25                    | 2.62               | 7.87           | ≤36         | Pass    |
| D.1  | 6.19                    | 2.62               | 8.81           | ≤36         | Pass    |
| D.2  | 5.72                    | 2.62               | 8.34           | ≤36         | Pass    |
| D.3  | 5.32                    | 2.62               | 7.94           | ≤36         | Pass    |

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## 4.1.6 Power Spectral Density

### Result:

Pass

Test Specification

Test standard

: FCC Part 15.247 (e)  
RSS-247 Issue 3, Clause 5.2(b)

Basic standard

: ANSI C63.10: 2020, Clause 11.10.3

Limits

: Not more than 8 dBm in any 3 kHz band

Kind of test site

: Shielded Room

### Test Setup

Date of testing

: 2025.05.16

Input voltage

: DC 7.2V

Operational mode

: A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

Temperature

: 23°C

Relative humidity

: 56%

Atmospheric pressure

: 101.2 kPa

**Table 10: Test result of Peak Power Spectral Density**

| Mode | Peak PSD (dBm/3KHz) | Limit (dBm/3KHz) | Verdict |
|------|---------------------|------------------|---------|
| A.1  | -9.95               | ≤8               | Pass    |
| A.2  | -10.39              | ≤8               | Pass    |
| A.3  | -10.84              | ≤8               | Pass    |
| B.1  | -11.89              | ≤8               | Pass    |
| B.2  | -12.68              | ≤8               | Pass    |
| B.3  | -13.19              | ≤8               | Pass    |
| C.1  | -0.09               | ≤8               | Pass    |
| C.2  | -0.52               | ≤8               | Pass    |
| C.3  | -0.94               | ≤8               | Pass    |
| D.1  | -0.22               | ≤8               | Pass    |
| D.2  | -0.66               | ≤8               | Pass    |
| D.3  | -1.10               | ≤8               | Pass    |

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#### **4.1.7 Conducted Spurious Emissions Measured in 100 kHz Bandwidth**

**Result:**

**Pass**

Test Specification

Test standard

: FCC Part 15.247 (d)  
RSS-247 Issue 3, Clause 5.5

Basic standard

: ANSI C63.10: 2020, Clause 11.11

Limits

: 20dB (below that in the 100kHz bandwidth within the  
band that contains the highest level of the desired power)

Kind of test site

: Shielded Room

#### **Test Setup**

Date of testing

: 2025.05.16

Input voltage

: DC 7.2V

Operational mode

: A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

Temperature

: 23°C

Relative humidity

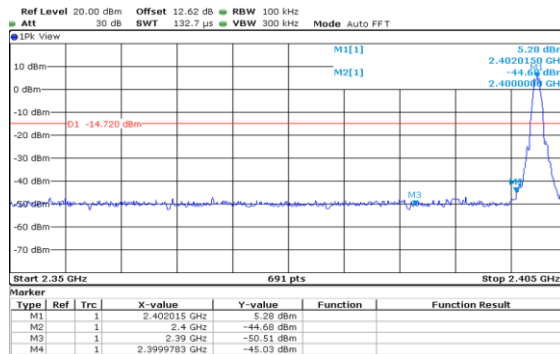
: 56%

Atmospheric pressure

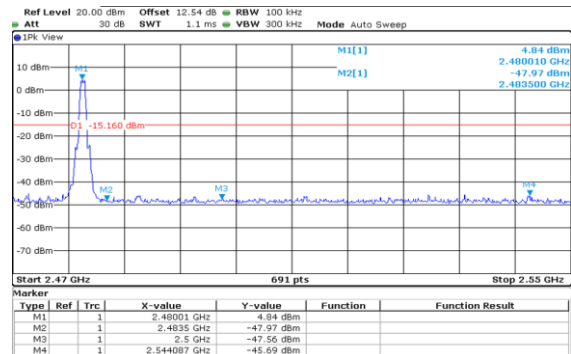
: 101.2 kPa

**Figure 3: Band Edge**

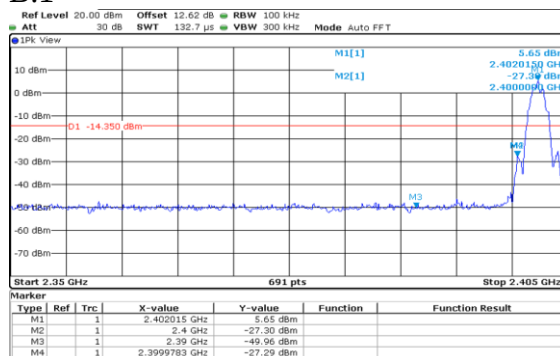
**A.1**



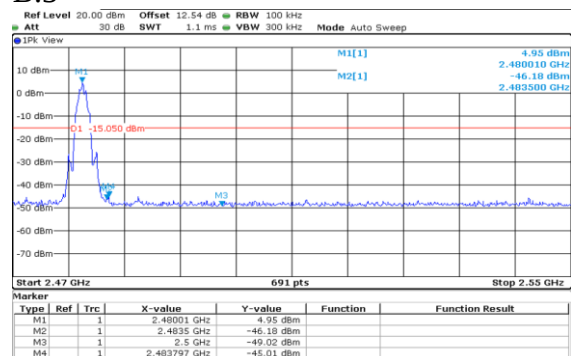
**A.3**



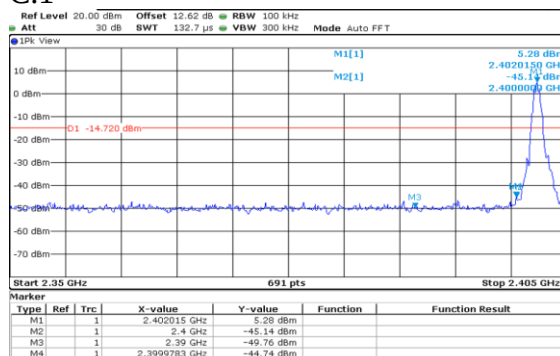
**B.1**



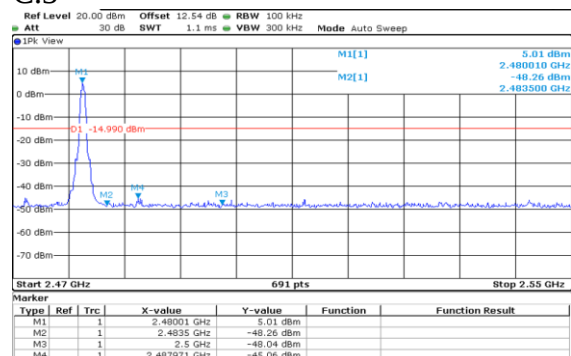
**B.3**



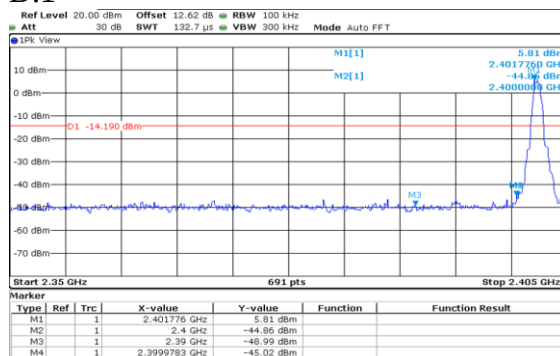
**C.1**



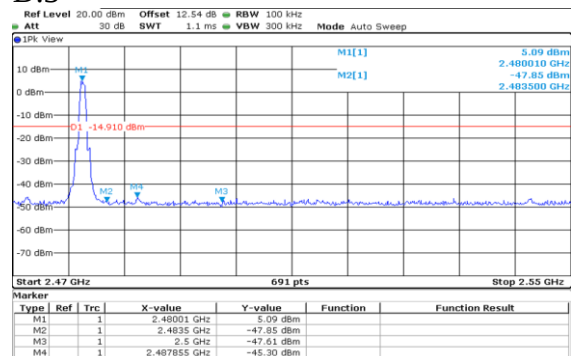
**C.3**



**D.1**

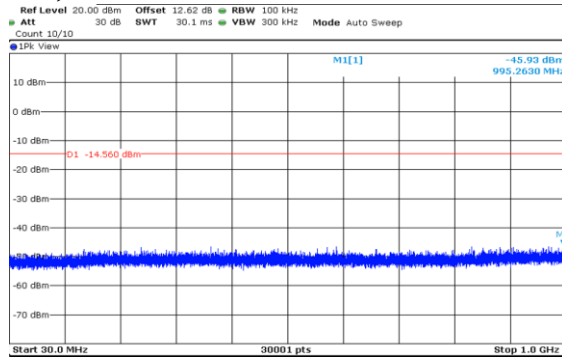


**D.3**

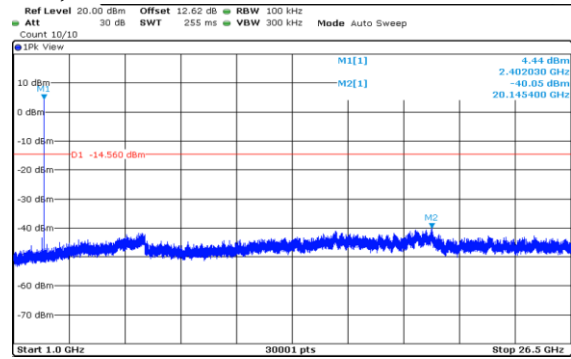


**Figure 4: Conducted Spurious Emission**

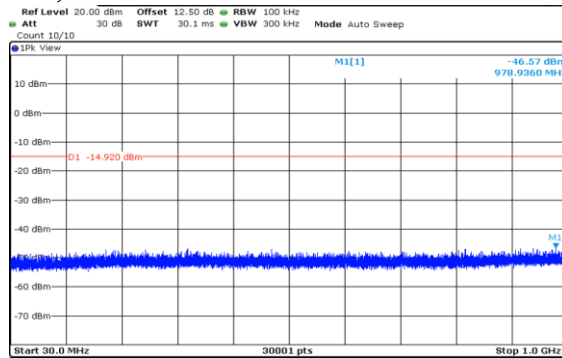
**A.1, 30MHz-1000MHz**



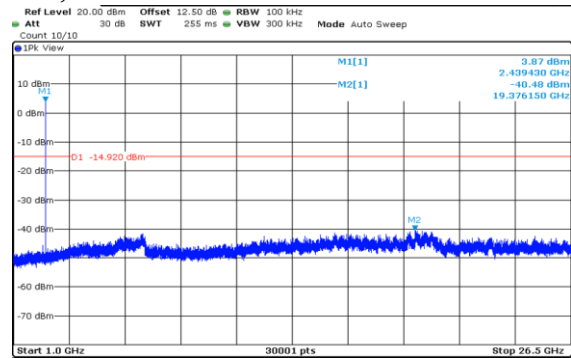
**A.1, 1GHz-26.5GHz**



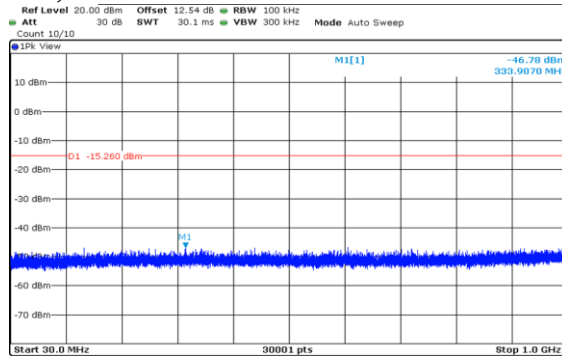
**A.2, 30MHz-1000MHz**



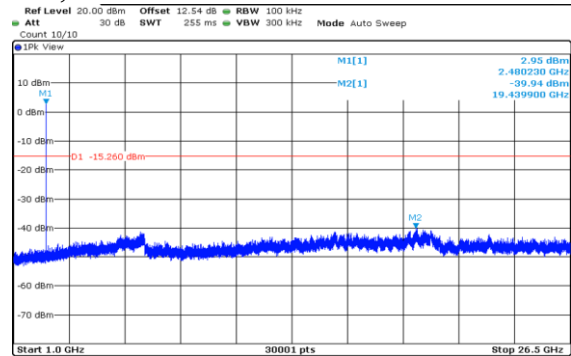
**A.2, 1GHz-26.5GHz**



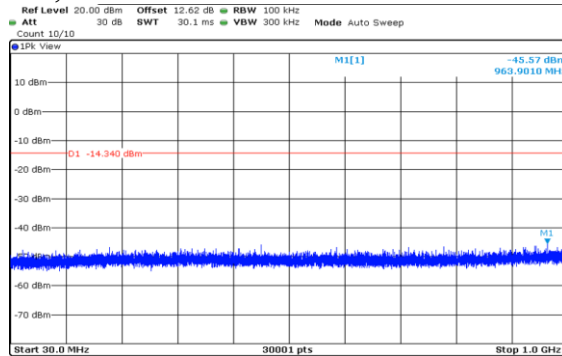
**A.3, 30MHz-1000MHz**



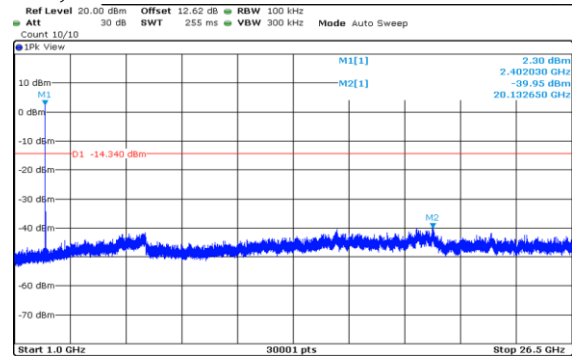
**A.3, 1GHz-26.5GHz**



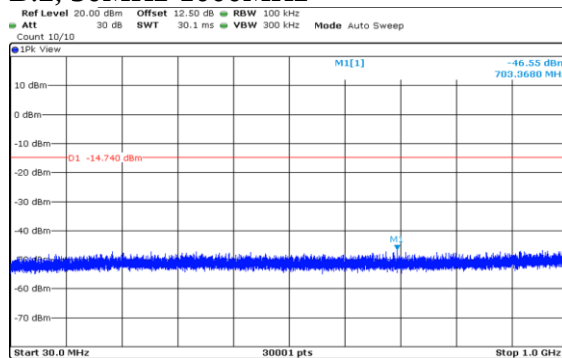
### B.1, 30MHz-1000MHz



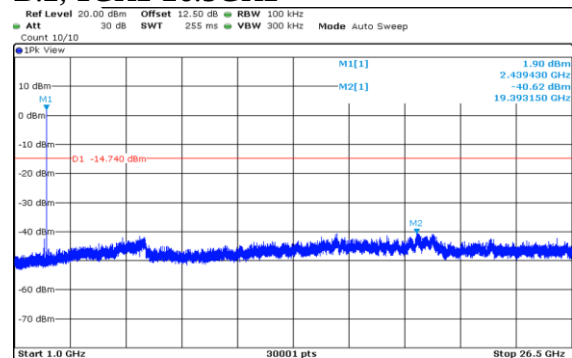
### B.1, 1GHz-26.5GHz



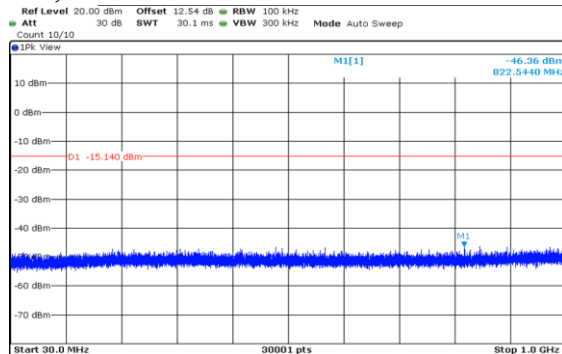
### B.2, 30MHz-1000MHz



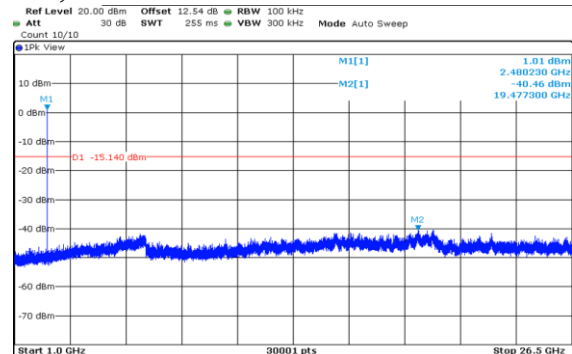
### B.2, 1GHz-26.5GHz



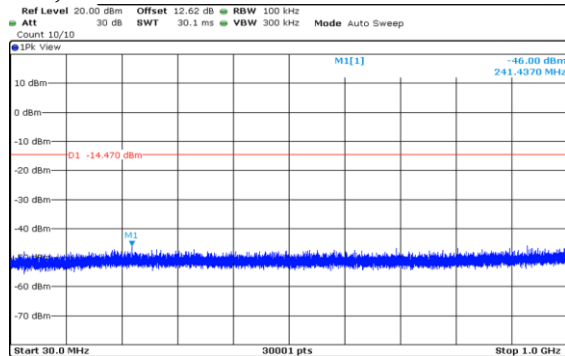
### B.3, 30MHz-1000MHz



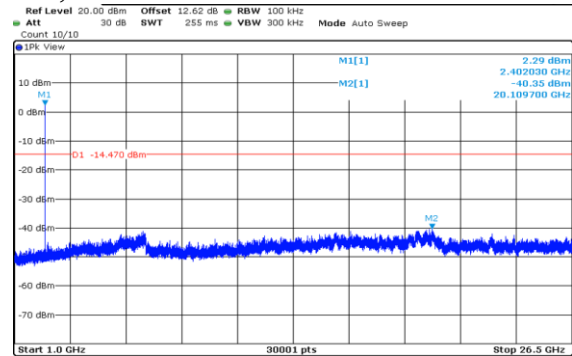
### B.3, 1GHz-26.5GHz



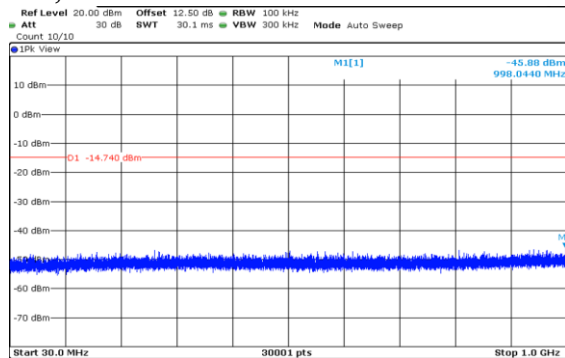
### C.1, 30MHz-1000MHz



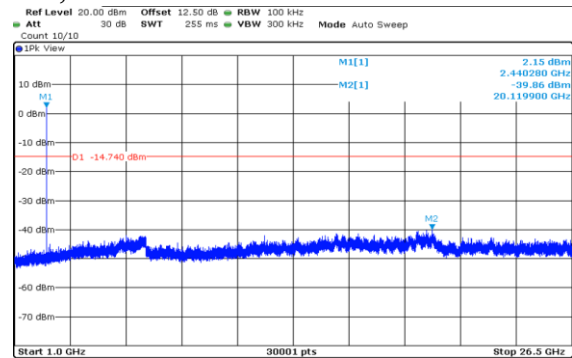
### C.1, 1GHz-26.5GHz



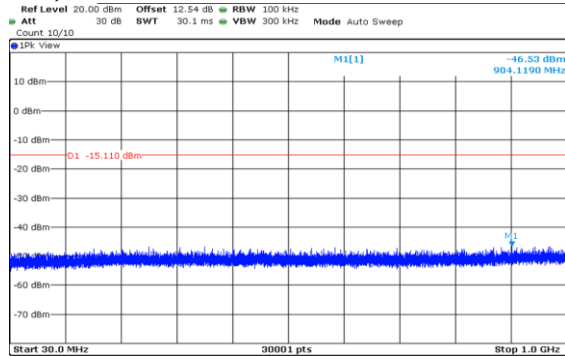
### C.2, 30MHz-1000MHz



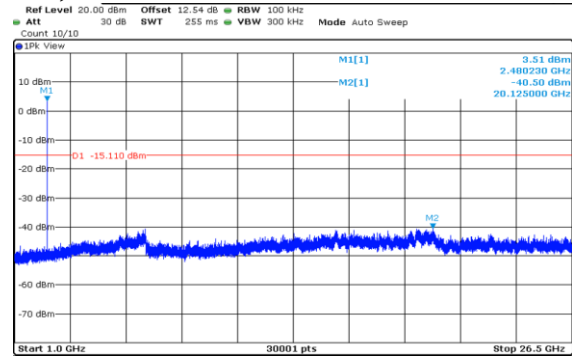
### C.2, 1GHz-26.5GHz



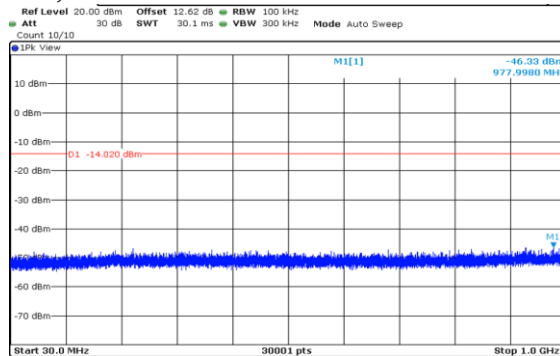
### C.3, 30MHz-1000MHz



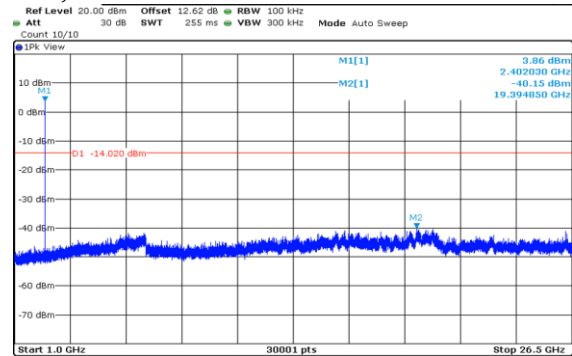
### C.3, 1GHz-26.5GHz



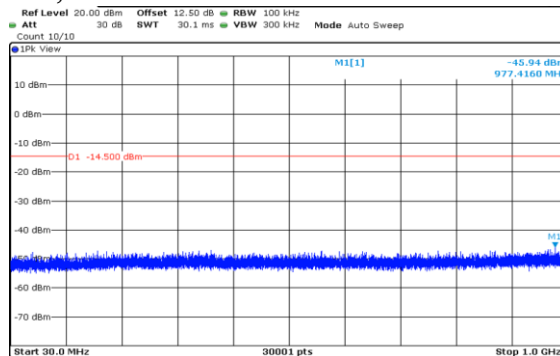
### D.1, 30MHz-1000MHz



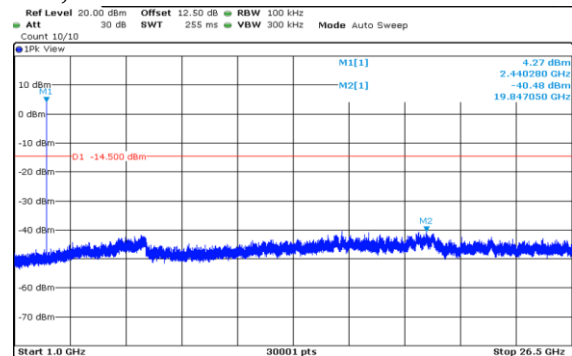
### D.1, 1GHz-26.5GHz



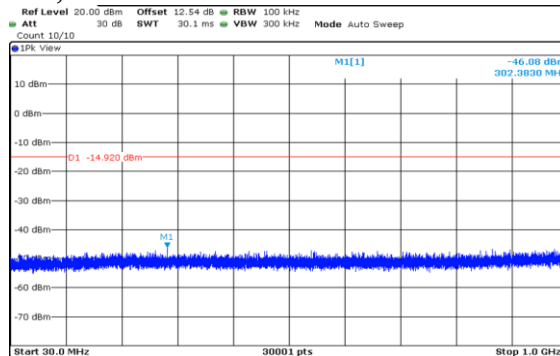
### D.2, 30MHz-1000MHz



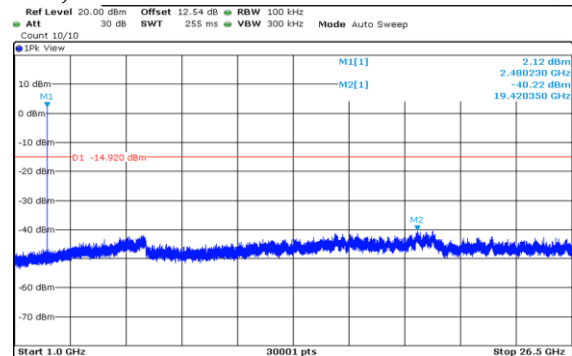
### D.2, 1GHz-26.5GHz



### D.3, 30MHz-1000MHz



### D.3, 1GHz-26.5GHz



Remark: All emissions are more than 20dB below fundamental, compliance is achieved as well.

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#### 4.1.8 Conducted Emission (AC power-line)

**Result:**

N/A

Test Specification

Test standard

: FCC Part 15.207(a)  
RSS-Gen Issue 5, Clause 8.8

Basic standard

: ANSI C63.10: 2020, Clause 6.2

Port

: Mains

Frequency range

: 0.15 – 30MHz

Limits

: FCC Part 15.207(a)  
RSS-Gen Issue 5, table 4

Kind of test site

: Shielding Room

The EUT is powered by battery, so this requirement does not apply.

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#### **4.1.9 Radiated Emission**

**Result:**

**Pass**

Test Specification

Test standard

: FCC Part 15.209(a)  
RSS-Gen Issue 5, Clause 8.9, 8.10

Basic standard

: ANSI C63.10: 2020, Clause 11.12

Port

: Enclosure

Frequency range

: 30MHz-10<sup>th</sup> Harmonic for intentional radiator

Limits

: FCC Part 15.205(a)  
FCC Part 15.209(a)  
RSS-Gen Issue 5, table 6, table 7

Kind of test site

: 3m Semi-anechoic Chamber

**Test Setup**

Date of testing

: 2025.04.28 - 2025.05.13

Input voltage

: DC 7.2V

Operational mode

: A.1, A.2, A.3, B.1, B.2, B.3, C.1, C.2, C.3, D.1, D.2, D.3

Temperature

: 21°C

Relative humidity

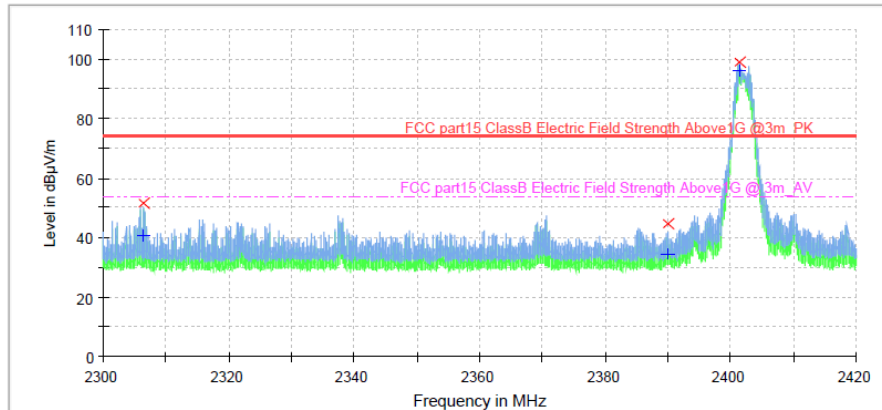
: 68%

Atmospheric pressure

: 101.2 kPa

The radiated measurement result is calculated based on the following formula by the test software: Emission Level = Reading level + Correction (Antenna factor + Cable loss Preamplifier)

**Figure 5: Spectral Diagrams, Restricted frequency bands, Mode B.1, DC1583L**  
2310MHz-2390MHz, Horizontal



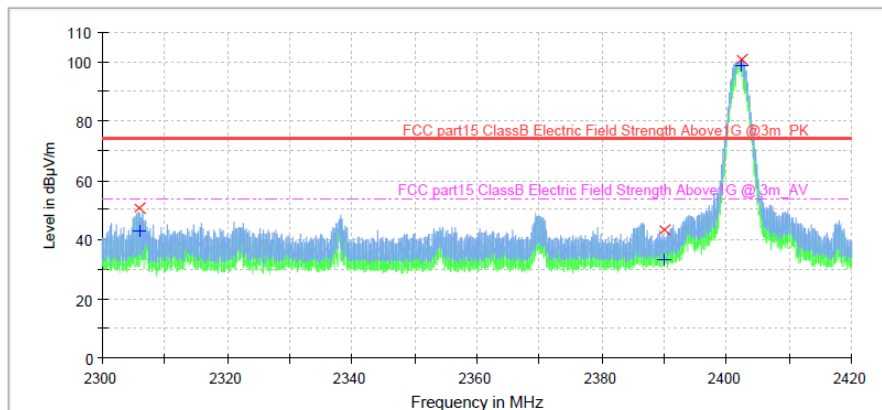
#### Limit and Margin-PK

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2306.530000     | 51.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -5.4       | 22.5              | 74.0                 |
| 2390.000000     | 44.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -5.0       | 29.6              | 74.0                 |
| 2401.465000     | 98.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.9       | -24.8             | 74.0                 |

#### Limit and Margin-AV

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2306.530000     | 40.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -5.4       | 13.5              | 54.0                 |
| 2390.000000     | 34.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -5.0       | 19.7              | 54.0                 |
| 2401.465000     | 96.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.9       | -42.2             | 54.0                 |

#### 2310MHz-2390MHz, Vertical



#### Limit and Margin-PK

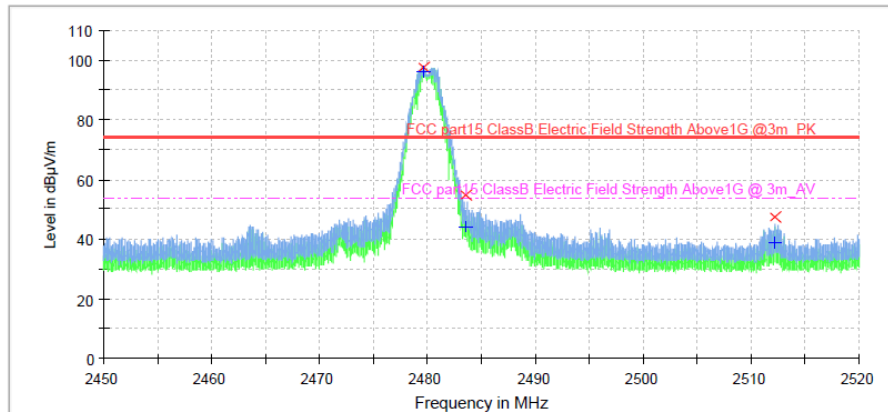
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2306.050000     | 50.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.4       | 23.2              | 74.0                 |
| 2390.000000     | 43.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.0       | 30.6              | 74.0                 |
| 2402.390000     | 100.8            | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.9       | -26.8             | 74.0                 |

#### Limit and Margin-AV

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2306.050000     | 42.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.4       | 11.2              | 54.0                 |
| 2390.000000     | 33.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.0       | 20.7              | 54.0                 |
| 2402.390000     | 98.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.9       | -44.3             | 54.0                 |

**Figure 6: Spectral Diagrams, Restricted frequency bands, Mode B.3, DC1583L**

2483.5MHz-2500MHz, Horizontal

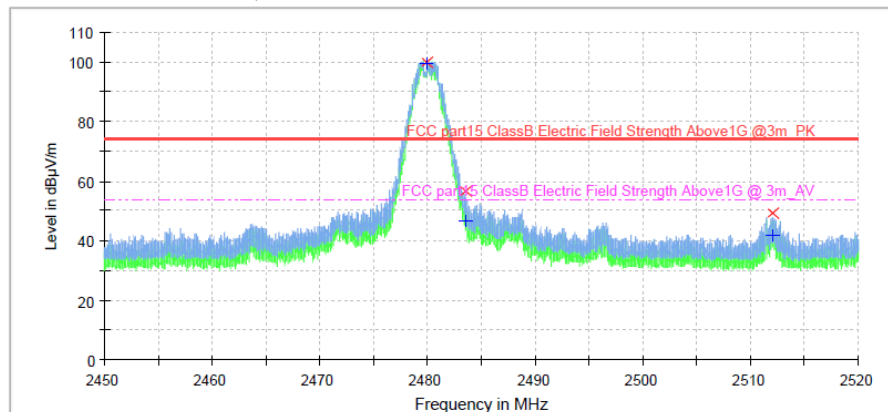

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2479.680000     | 97.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | -23.6             | 74.0                 |
| 2483.500000     | 55.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 19.0              | 74.0                 |
| 2512.195000     | 47.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.3       | 26.7              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2479.680000     | 96.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | -42.3             | 54.0                 |
| 2483.500000     | 44.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 9.9               | 54.0                 |
| 2512.195000     | 38.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.3       | 15.2              | 54.0                 |

2483.5MHz-2500MHz, Vertical


**Limit and Margin-PK**

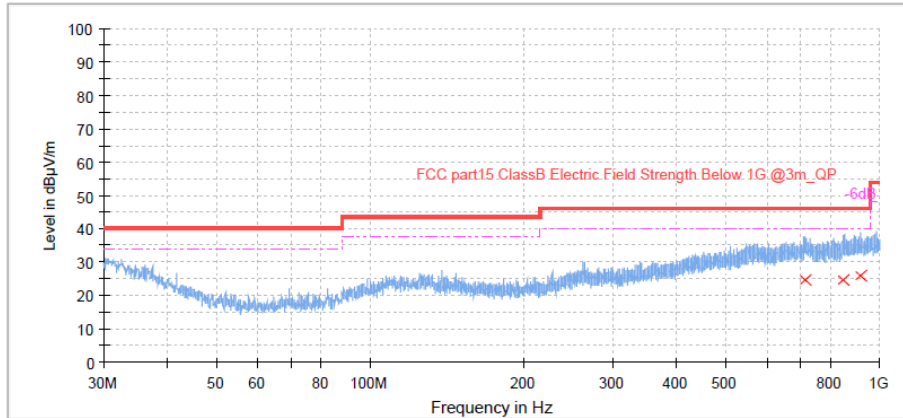
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2479.955000     | 100.0            | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | -26.0             | 74.0                 |
| 2483.500000     | 56.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 17.3              | 74.0                 |
| 2512.005000     | 49.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.3       | 24.6              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 2479.955000     | 99.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | -45.3             | 54.0                 |
| 2483.500000     | 46.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 7.5               | 54.0                 |
| 2512.005000     | 41.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.3       | 12.3              | 54.0                 |

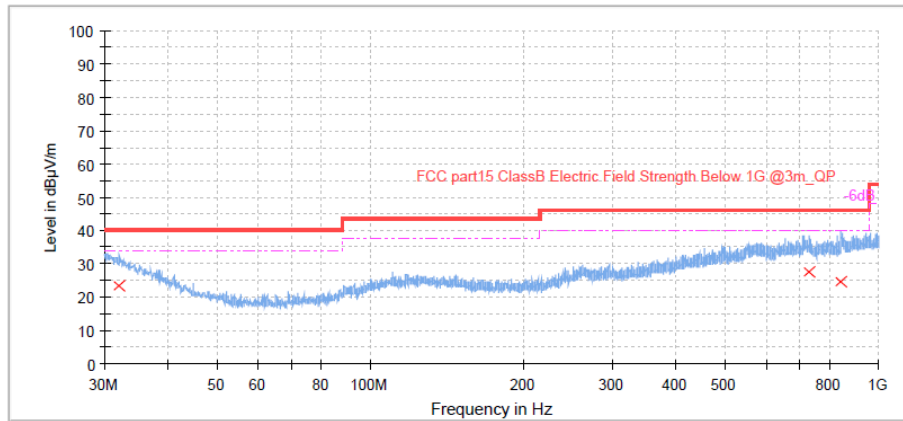
**Figure 7: Spectral Diagrams, Radiated Emission, Mode B.1, DC1583L**

30MHz-1000MHz, Horizontal

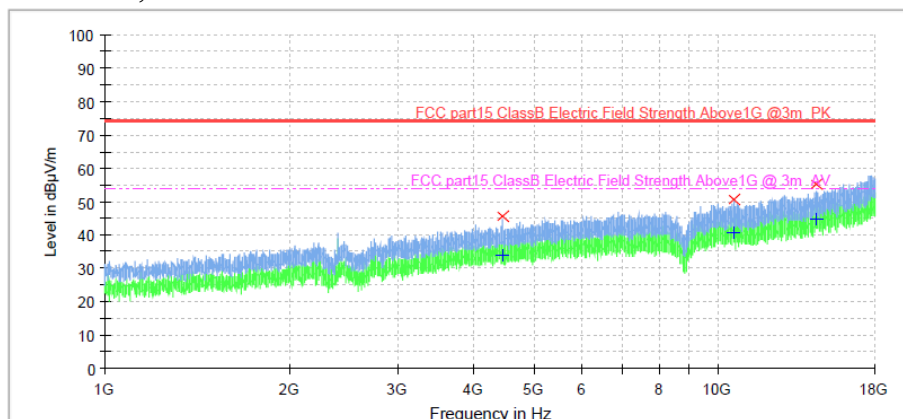

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 714.440000      | 24.8               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 27.1       | 21.2              | 46.0                 |
| 845.280000      | 24.6               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 28.4       | 21.4              | 46.0                 |
| 919.220000      | 25.9               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 29.4       | 20.1              | 46.0                 |

30MHz-1000MHz, Vertical


**Limit and Margin**

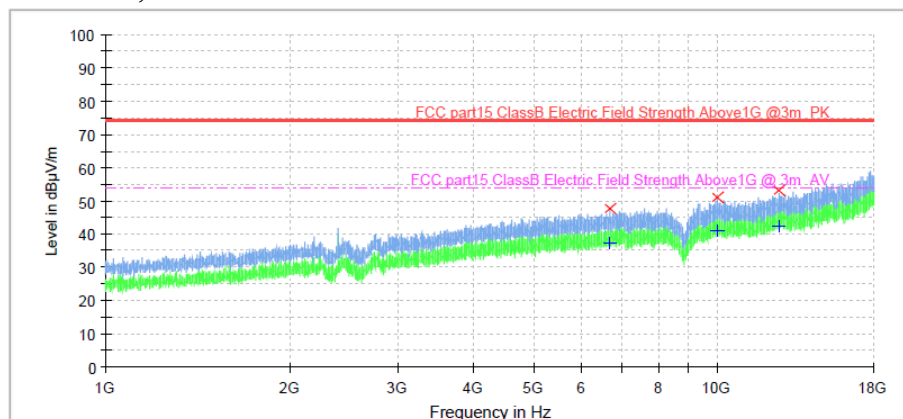
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 32.100000       | 23.6               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 24.3       | 16.4              | 40.0                 |
| 729.260000      | 27.4               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 27.4       | 18.6              | 46.0                 |
| 844.850000      | 24.8               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 28.4       | 21.2              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 4453.655000     | 45.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 2.8        | 28.3              | 74.0                 |
| 10628.905000    | 50.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.8       | 23.5              | 74.0                 |
| 14439.030000    | 55.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.2       | 18.7              | 74.0                 |

**Limit and Margin-AV**

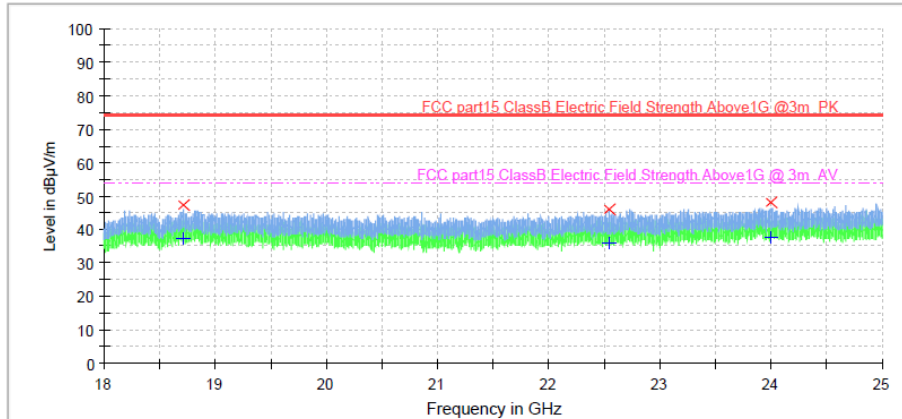
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 4453.655000     | 34.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 2.8        | 20.0              | 54.0                 |
| 10628.905000    | 40.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.8       | 13.6              | 54.0                 |
| 14439.030000    | 44.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.2       | 9.3               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6648.250000     | 47.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 7.8        | 26.4              | 74.0                 |
| 10006.810000    | 51.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.7       | 22.8              | 74.0                 |
| 12618.435000    | 53.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 14.6       | 21.0              | 74.0                 |

**Limit and Margin-AV**

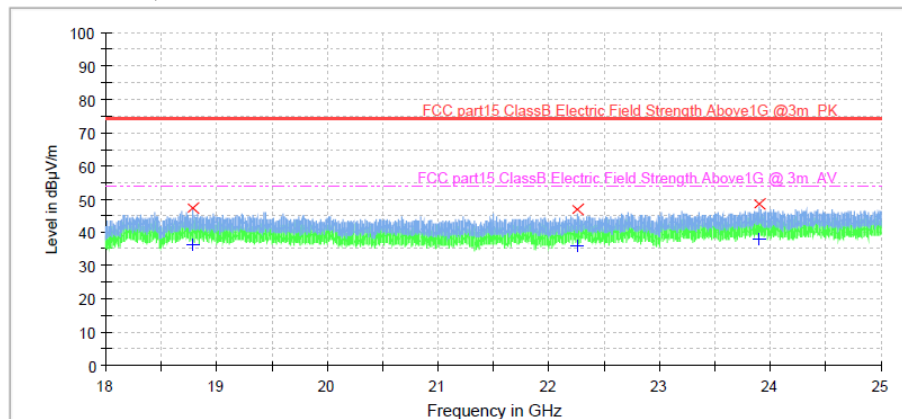
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6648.250000     | 37.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 7.8        | 16.6              | 54.0                 |
| 10006.810000    | 40.9             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.7       | 13.1              | 54.0                 |
| 12618.435000    | 42.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 14.6       | 11.6              | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18715.750000    | 47.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 26.6              | 74.0                 |
| 22539.280000    | 46.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -6.1       | 27.8              | 74.0                 |
| 23999.220000    | 47.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 26.1              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18715.750000    | 37.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 16.7              | 54.0                 |
| 22539.280000    | 35.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -6.1       | 18.2              | 54.0                 |
| 23999.220000    | 37.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 16.5              | 54.0                 |

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

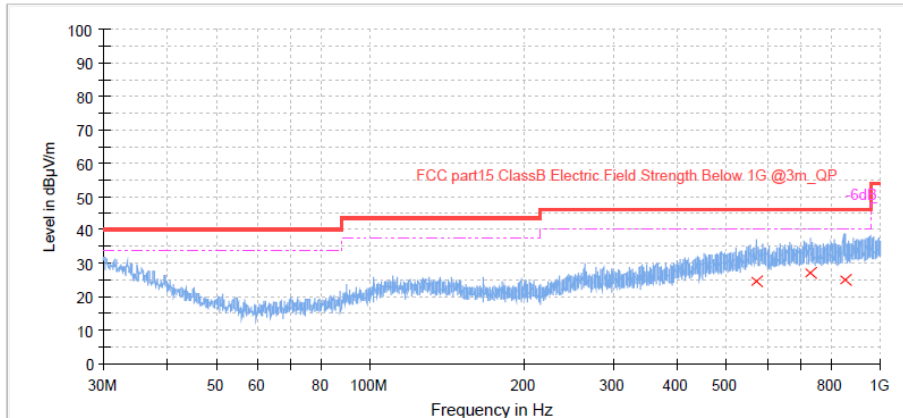
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18784.655000    | 47.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 26.9              | 74.0                 |
| 22262.560000    | 47.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -6.7       | 27.0              | 74.0                 |
| 23904.280000    | 48.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 25.4              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18784.655000    | 36.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 17.8              | 54.0                 |
| 22262.560000    | 35.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -6.7       | 18.2              | 54.0                 |
| 23904.280000    | 38.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 16.0              | 54.0                 |

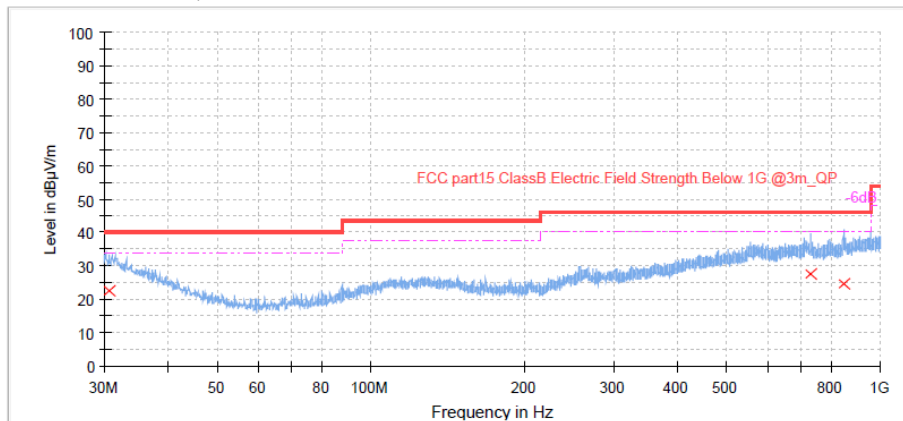
**Figure 8: Spectral Diagrams, Radiated Emission, Mode B.2, DC1583L**

30MHz-1000MHz, Horizontal

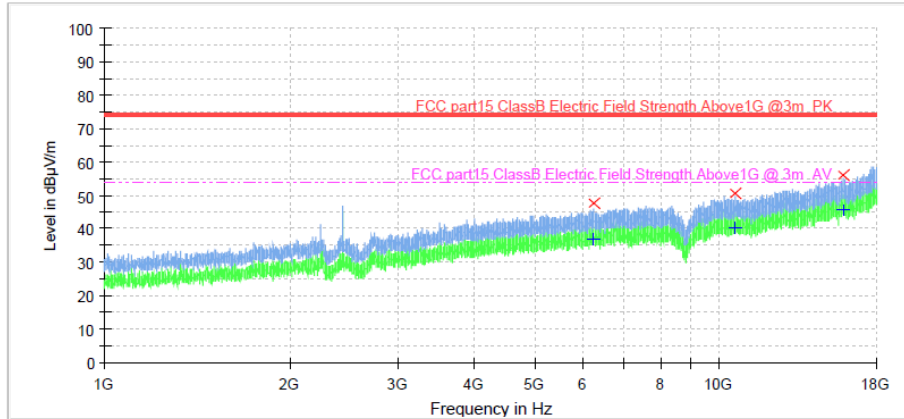

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 572.010000      | 24.5               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 27.2       | 21.5              | 46.0                 |
| 729.150000      | 27.4               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 27.4       | 18.6              | 46.0                 |
| 852.830000      | 24.9               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 28.5       | 21.1              | 46.0                 |

30MHz-1000MHz, Vertical


**Limit and Margin**

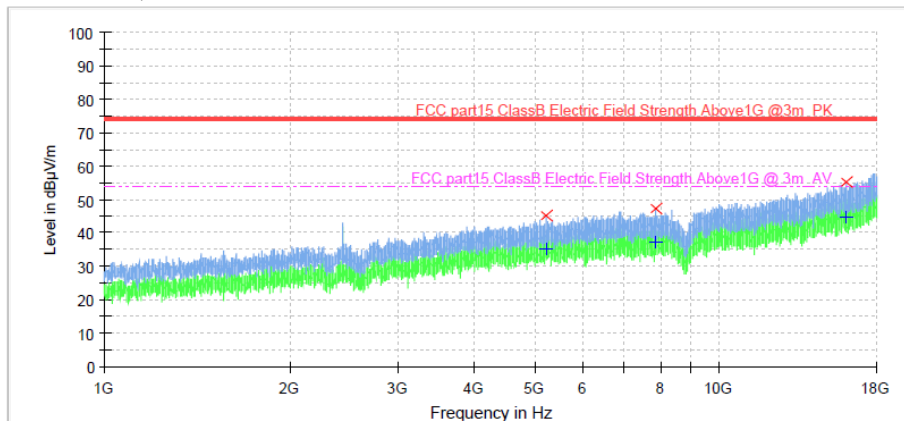
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 30.700000       | 22.4               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 25.1       | 17.6              | 40.0                 |
| 729.320000      | 27.5               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 27.4       | 18.5              | 46.0                 |
| 845.340000      | 24.8               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 28.4       | 21.2              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6230.685000     | 47.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 7.1        | 26.2              | 74.0                 |
| 10614.030000    | 50.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.8       | 23.4              | 74.0                 |
| 15889.875000    | 56.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 17.9              | 74.0                 |

**Limit and Margin-AV**

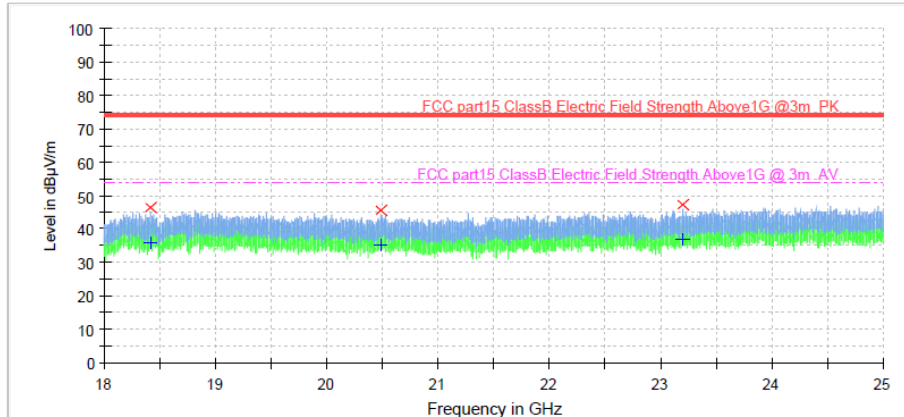
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6230.685000     | 36.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 7.1        | 17.3              | 54.0                 |
| 10614.030000    | 40.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.8       | 14.0              | 54.0                 |
| 15889.875000    | 45.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 8.3               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5224.500000     | 45.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 4.9        | 28.6              | 74.0                 |
| 7892.435000     | 47.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.8        | 26.6              | 74.0                 |
| 16065.720000    | 55.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 18.1       | 18.7              | 74.0                 |

**Limit and Margin-AV**

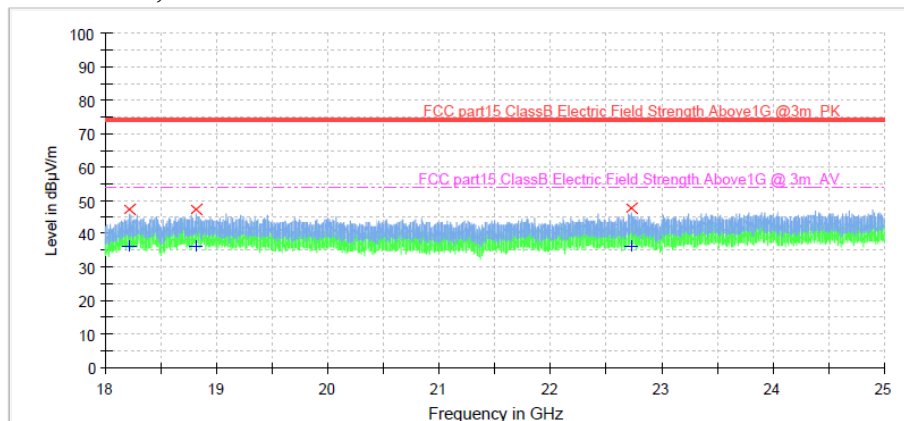
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5224.500000     | 35.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 4.9        | 18.8              | 54.0                 |
| 7892.435000     | 37.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.8        | 16.9              | 54.0                 |
| 16065.720000    | 44.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 18.1       | 9.3               | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18413.000000    | 46.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.3       | 27.6              | 74.0                 |
| 20482.595000    | 45.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.1       | 28.3              | 74.0                 |
| 23202.095000    | 47.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.9       | 26.6              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18413.000000    | 35.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.3       | 38.2              | 74.0                 |
| 20482.595000    | 35.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.1       | 38.7              | 74.0                 |
| 23202.095000    | 36.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.9       | 37.4              | 74.0                 |

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

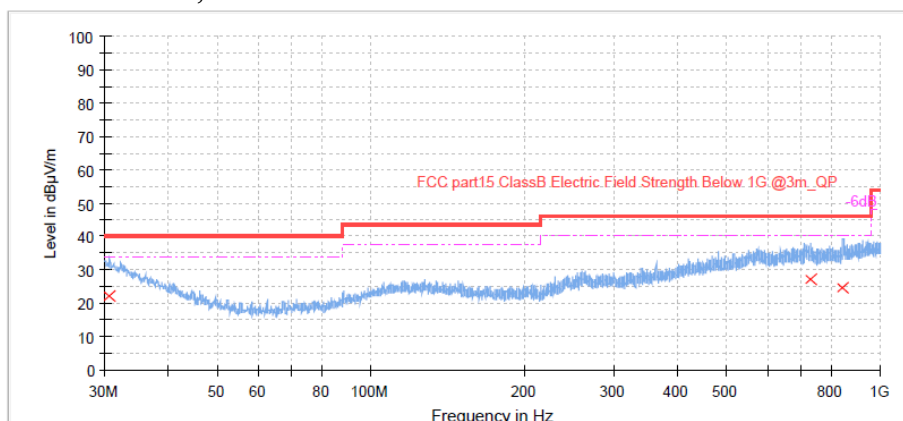
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18214.155000    | 47.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.4       | 26.6              | 74.0                 |
| 18814.185000    | 47.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 26.8              | 74.0                 |
| 22731.345000    | 47.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.7       | 26.4              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18214.155000    | 36.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.4       | 17.7              | 54.0                 |
| 18814.185000    | 36.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 17.6              | 54.0                 |
| 22731.345000    | 36.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.7       | 17.4              | 54.0                 |

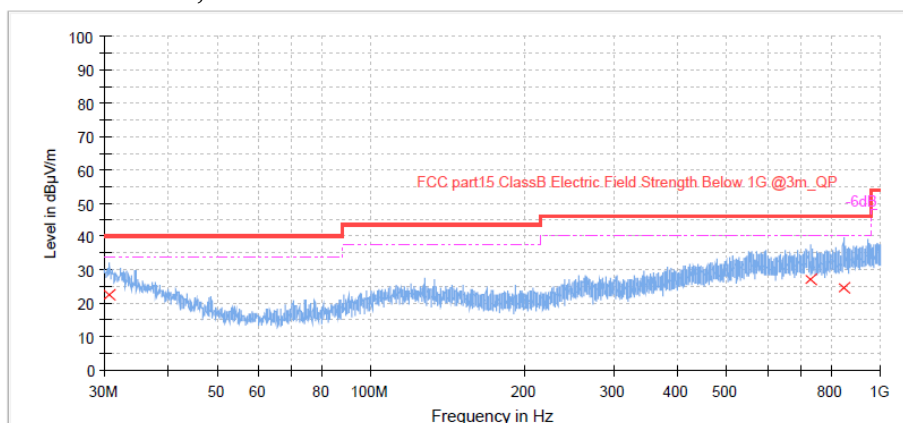
**Figure 9: Spectral Diagrams, Radiated Emission, Mode B.3, DC1583L**

30MHz-1000MHz, Horizontal

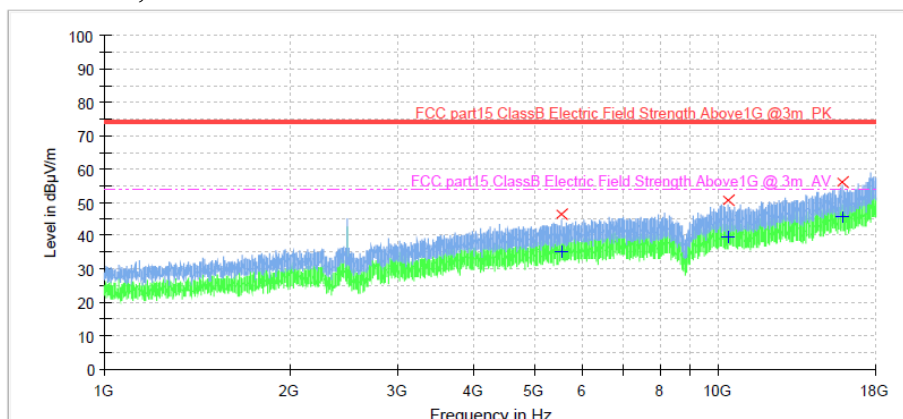

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 30.700000       | 22.3               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 25.1       | 17.7              | 40.0                 |
| 728.400000      | 27.4               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 27.4       | 18.6              | 46.0                 |
| 844.910000      | 24.8               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 28.4       | 21.2              | 46.0                 |

30MHz-1000MHz, Vertical


**Limit and Margin**

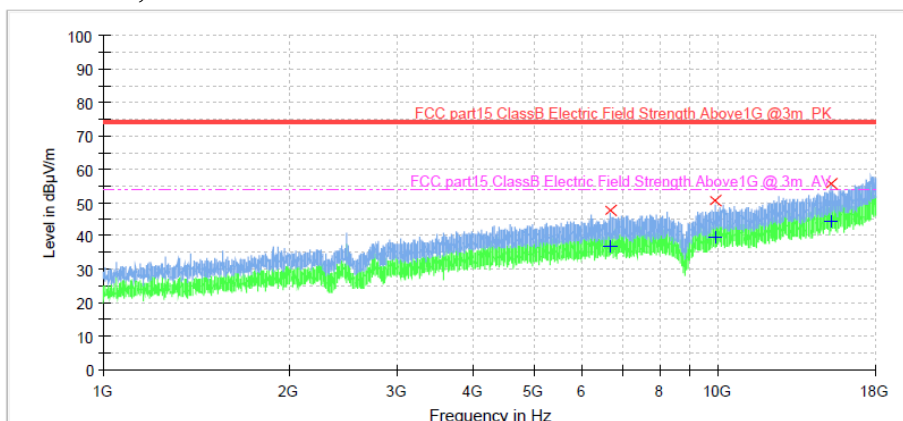
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 30.700000       | 22.5               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 25.1       | 17.5              | 40.0                 |
| 728.560000      | 27.4               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 27.4       | 18.6              | 46.0                 |
| 845.180000      | 24.8               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 28.4       | 21.2              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5537.405000     | 46.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 5.8        | 27.5              | 74.0                 |
| 10341.500000    | 50.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.6       | 23.2              | 74.0                 |
| 15911.125000    | 55.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 18.1              | 74.0                 |

**Limit and Margin-AV**

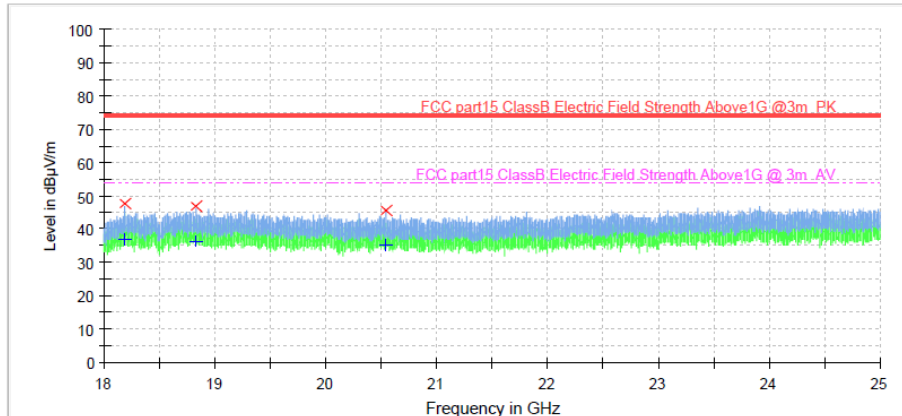
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5537.405000     | 35.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 5.8        | 19.0              | 54.0                 |
| 10341.500000    | 39.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.6       | 14.4              | 54.0                 |
| 15911.125000    | 45.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 8.4               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6679.595000     | 47.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 7.8        | 26.3              | 74.0                 |
| 9880.905000     | 50.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.4       | 23.5              | 74.0                 |
| 15277.345000    | 55.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.4       | 18.3              | 74.0                 |

**Limit and Margin-AV**

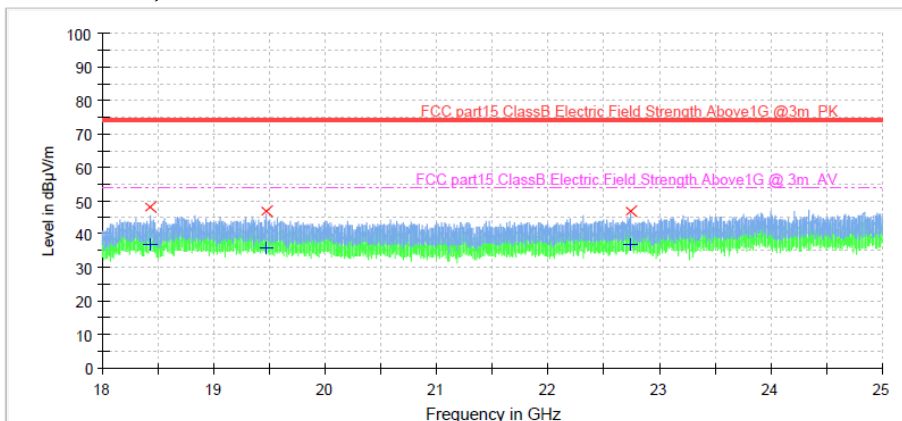
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6679.595000     | 36.9             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 7.8        | 17.1              | 54.0                 |
| 9880.905000     | 39.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.4       | 14.2              | 54.0                 |
| 15277.345000    | 44.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.4       | 9.5               | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18189.435000    | 47.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.4       | 26.4              | 74.0                 |
| 18826.655000    | 46.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 27.3              | 74.0                 |
| 20544.060000    | 45.4             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.1       | 28.6              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18189.435000    | 36.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.4       | 17.2              | 54.0                 |
| 18826.655000    | 36.3             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 17.7              | 54.0                 |
| 20544.060000    | 35.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.1       | 19.0              | 54.0                 |

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

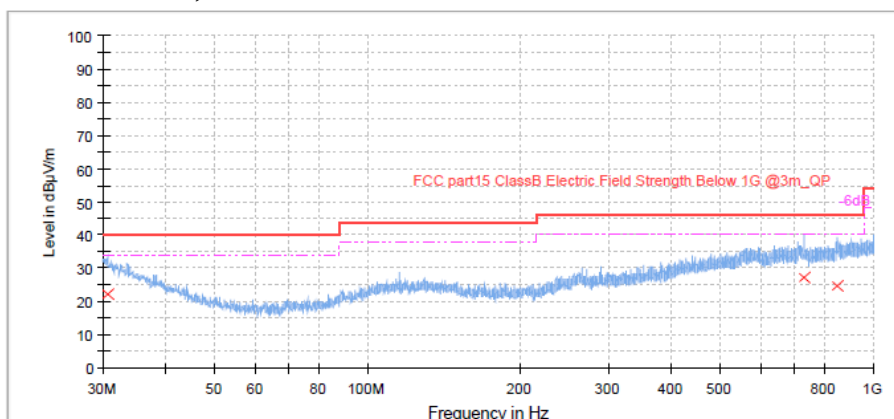
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18432.905000    | 48.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 25.9              | 74.0                 |
| 19466.280000    | 46.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.4       | 27.3              | 74.0                 |
| 22737.905000    | 46.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.6       | 27.2              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18432.905000    | 36.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 17.3              | 54.0                 |
| 19466.280000    | 36.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.4       | 17.9              | 54.0                 |
| 22737.905000    | 36.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.6       | 17.3              | 54.0                 |

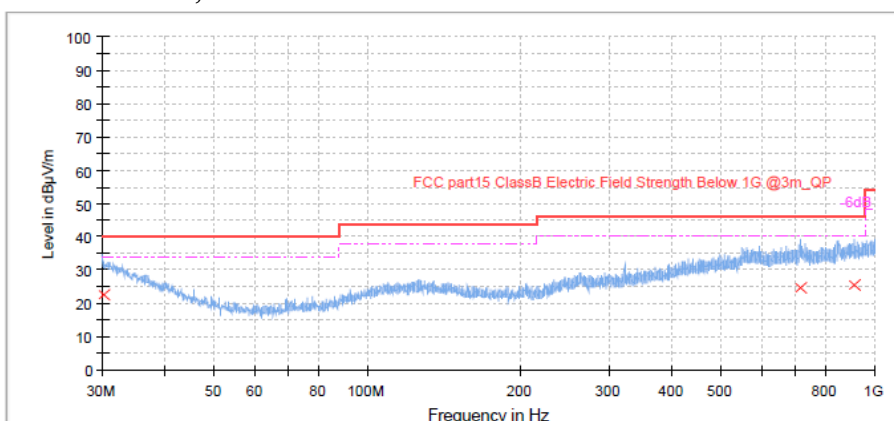
**Figure 10: Spectral Diagrams, Radiated Emission, Mode B.1, DC1583R**

30MHz-1000MHz, Horizontal

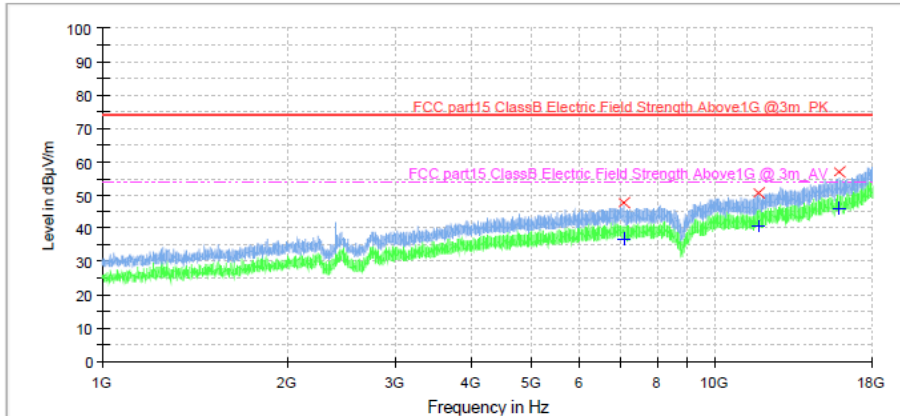

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 30.590000       | 22.3               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 25.1       | 17.7              | 40.0                 |
| 728.450000      | 27.3               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 27.4       | 18.7              | 46.0                 |
| 845.450000      | 24.7               | 1000.0          | 120.000         | 100.0       | H   | 11.0          | 28.4       | 21.3              | 46.0                 |

30MHz-1000MHz, Vertical


**Limit and Margin**

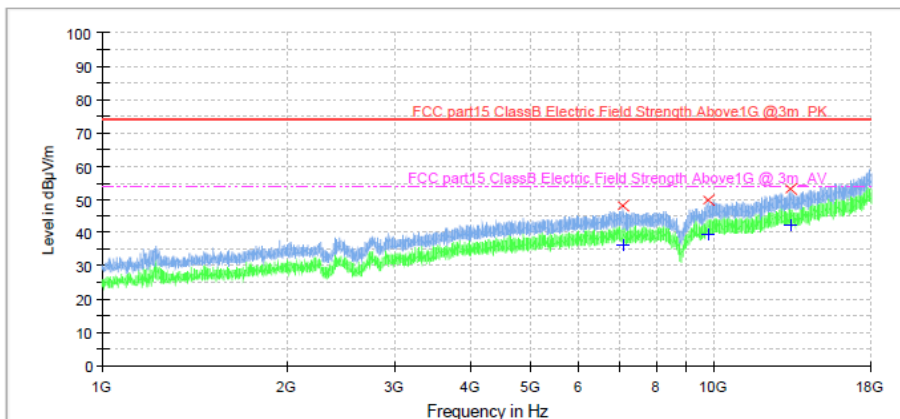
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 30.270000       | 22.8               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 25.3       | 17.2              | 40.0                 |
| 712.990000      | 24.6               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 27.1       | 21.4              | 46.0                 |
| 912.210000      | 25.7               | 1000.0          | 120.000         | 100.0       | V   | 11.0          | 29.4       | 20.3              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7063.155000     | 47.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 8.3        | 26.5              | 74.0                 |
| 11741.345000    | 50.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 13.2       | 23.3              | 74.0                 |
| 15844.720000    | 56.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 17.2              | 74.0                 |

**Limit and Margin-AV**

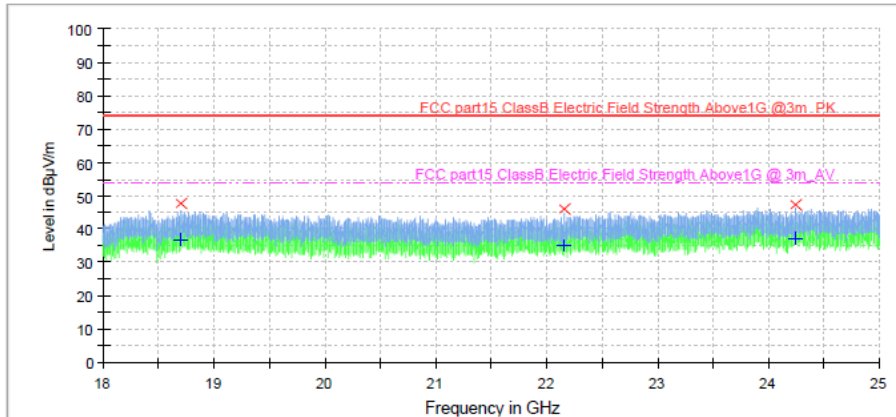
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7063.155000     | 36.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 8.3        | 17.4              | 54.0                 |
| 11741.345000    | 40.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 13.2       | 13.4              | 54.0                 |
| 15844.720000    | 46.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 17.8       | 8.0               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7096.625000     | 48.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.3        | 25.9              | 74.0                 |
| 9729.500000     | 50.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 10.9       | 24.0              | 74.0                 |
| 13253.280000    | 53.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 15.2       | 21.1              | 74.0                 |

**Limit and Margin-AV**

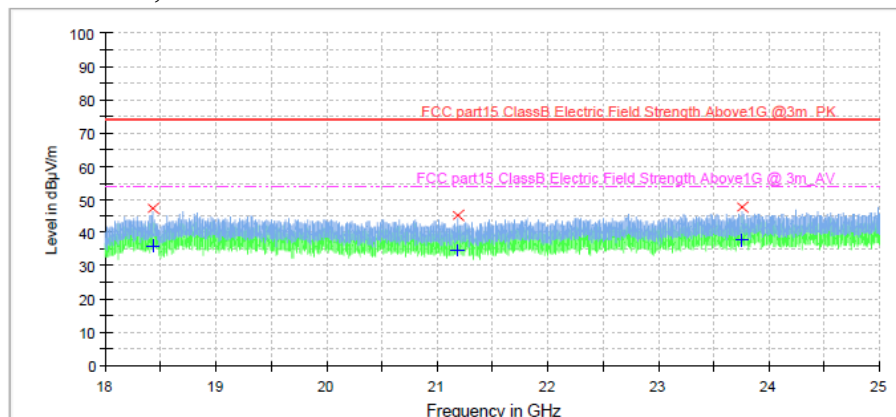
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7096.625000     | 36.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.3        | 17.6              | 54.0                 |
| 9729.500000     | 39.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 10.9       | 14.5              | 54.0                 |
| 13253.280000    | 42.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 15.2       | 11.7              | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18703.935000    | 47.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 26.1              | 74.0                 |
| 22160.845000    | 45.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -7.0       | 28.1              | 74.0                 |
| 24245.310000    | 47.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 26.8              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18703.935000    | 36.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 17.3              | 54.0                 |
| 22160.845000    | 35.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -7.0       | 18.9              | 54.0                 |
| 24245.310000    | 37.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 16.8              | 54.0                 |

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

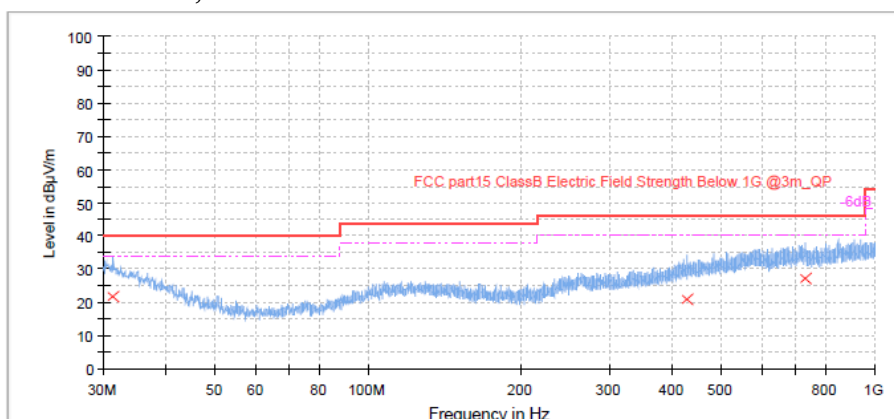
| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18432.030000    | 47.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 26.7              | 74.0                 |
| 21181.060000    | 45.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -8.6       | 28.7              | 74.0                 |
| 23759.030000    | 47.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.6       | 26.4              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18432.030000    | 35.9             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 18.1              | 54.0                 |
| 21181.060000    | 34.8             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -8.6       | 19.2              | 54.0                 |
| 23759.030000    | 37.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.6       | 16.5              | 54.0                 |

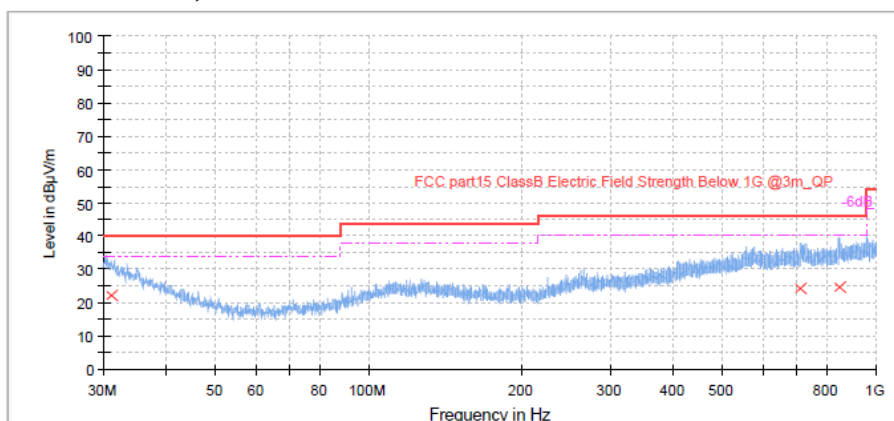
**Figure 11: Spectral Diagrams, Radiated Emission, Mode B.2, DC1583R**

30MHz-1000MHz, Horizontal

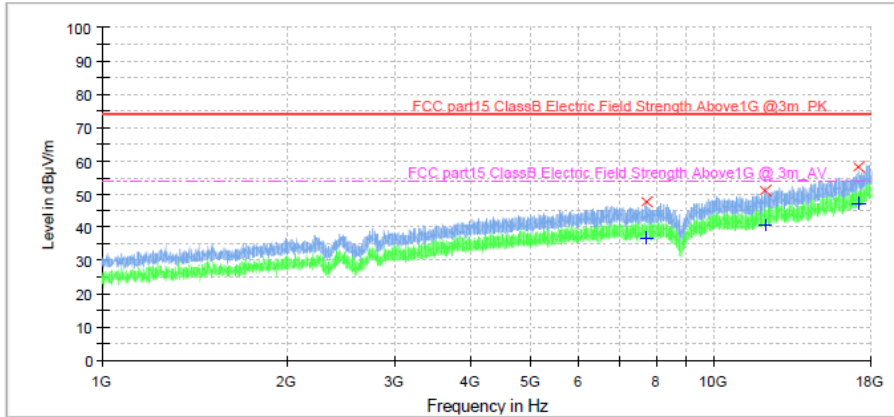

**Limit and Margin**

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 31.350000       | 21.9               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 24.7       | 18.1              | 40.0                 |
| 425.600000      | 20.8               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 24.2       | 25.2              | 46.0                 |
| 728.510000      | 27.2               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 27.4       | 18.8              | 46.0                 |

30MHz-1000MHz, Vertical


**Limit and Margin**

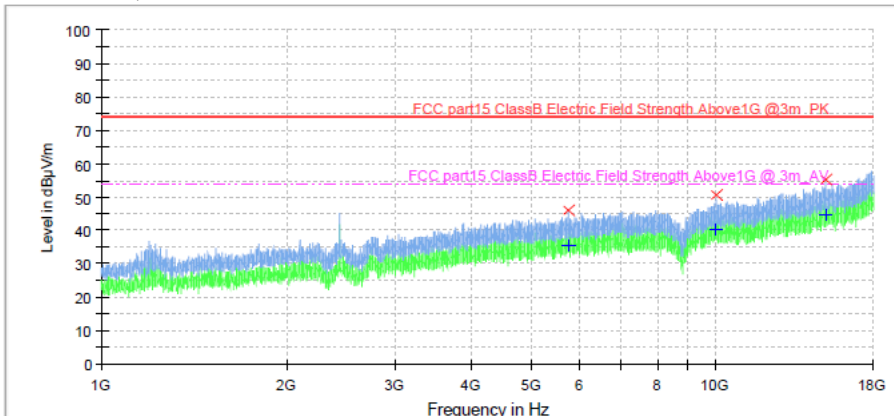
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 31.130000       | 22.1               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 24.8       | 17.9              | 40.0                 |
| 709.380000      | 24.4               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 26.9       | 21.6              | 46.0                 |
| 845.020000      | 24.6               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 28.4       | 21.4              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7743.685000     | 47.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 8.7        | 26.3              | 74.0                 |
| 12054.780000    | 51.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 13.7       | 22.8              | 74.0                 |
| 17156.905000    | 58.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 20.9       | 16.0              | 74.0                 |

**Limit and Margin-AV**

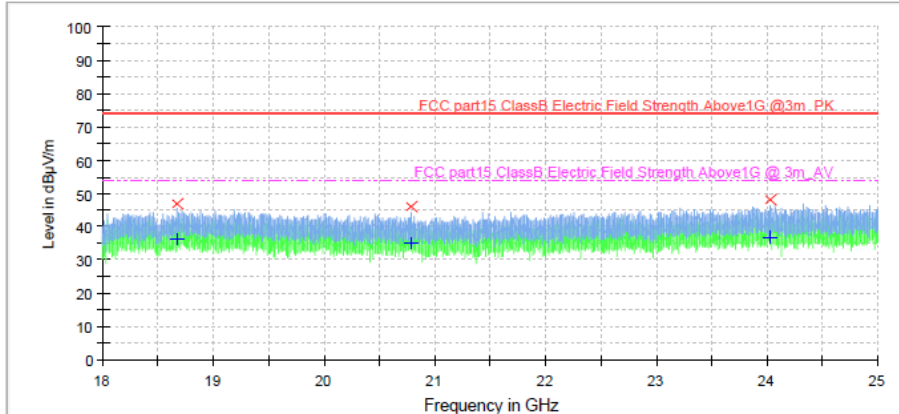
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 7743.685000     | 36.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 8.7        | 17.2              | 54.0                 |
| 12054.780000    | 40.7             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 13.7       | 13.3              | 54.0                 |
| 17156.905000    | 47.1             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 20.9       | 6.9               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5749.375000     | 46.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 6.2        | 28.0              | 74.0                 |
| 10002.030000    | 50.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.7       | 23.3              | 74.0                 |
| 15054.750000    | 55.2             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.4       | 18.8              | 74.0                 |

**Limit and Margin-AV**

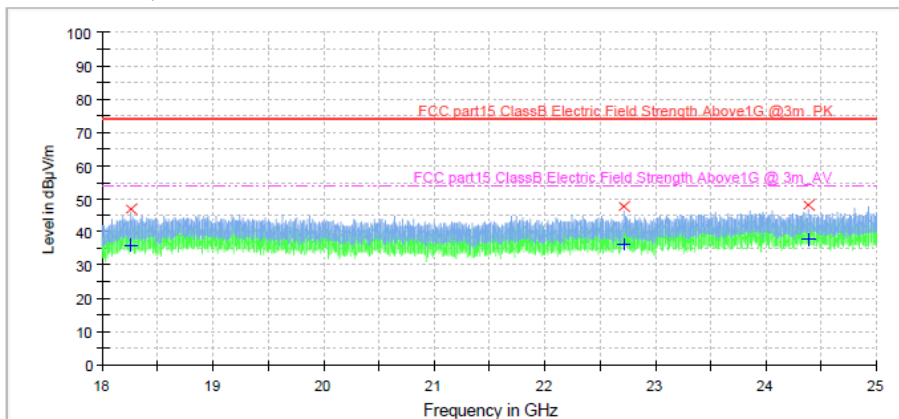
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 5749.375000     | 35.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 6.2        | 18.5              | 54.0                 |
| 10002.030000    | 40.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 11.7       | 14.0              | 54.0                 |
| 15054.750000    | 44.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.4       | 9.4               | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18673.530000    | 47.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 27.0              | 74.0                 |
| 20790.810000    | 46.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.0       | 27.8              | 74.0                 |
| 24032.470000    | 47.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 26.1              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18673.530000    | 36.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 17.5              | 54.0                 |
| 20790.810000    | 35.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.0       | 19.1              | 54.0                 |
| 24032.470000    | 37.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 17.0              | 54.0                 |

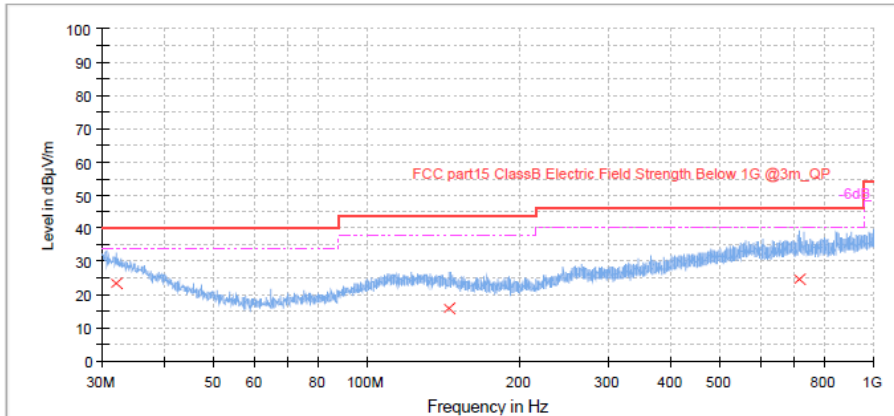
**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18250.685000    | 47.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.3       | 27.0              | 74.0                 |
| 22720.185000    | 47.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.7       | 26.5              | 74.0                 |
| 24383.560000    | 47.9             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 26.1              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18250.685000    | 36.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.3       | 18.1              | 54.0                 |
| 22720.185000    | 36.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.7       | 17.5              | 54.0                 |
| 24383.560000    | 37.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -4.5       | 16.4              | 54.0                 |

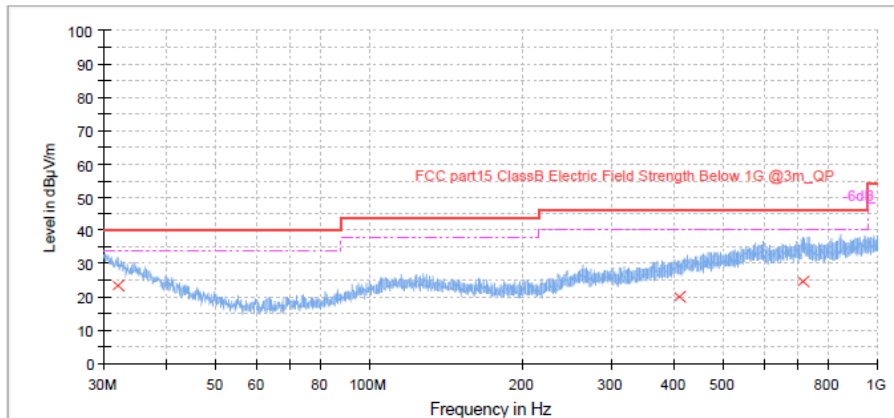
**Figure 12: Spectral Diagrams, Radiated Emission, Mode B.3, DC1583R**  
30MHz-1000MHz, Horizontal



#### Limit and Margin

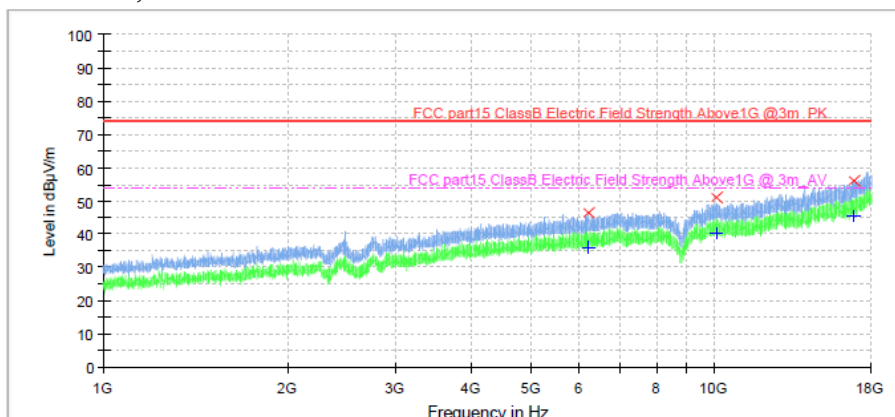
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 31.940000       | 23.6               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 24.3       | 16.4              | 40.0                 |
| 145.160000      | 15.7               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 18.0       | 27.8              | 43.5                 |
| 715.790000      | 24.6               | 1000.0          | 120.000         | 150.0       | H   | 11.0          | 27.2       | 21.4              | 46.0                 |

#### 30MHz-1000MHz, Vertical



#### Limit and Margin

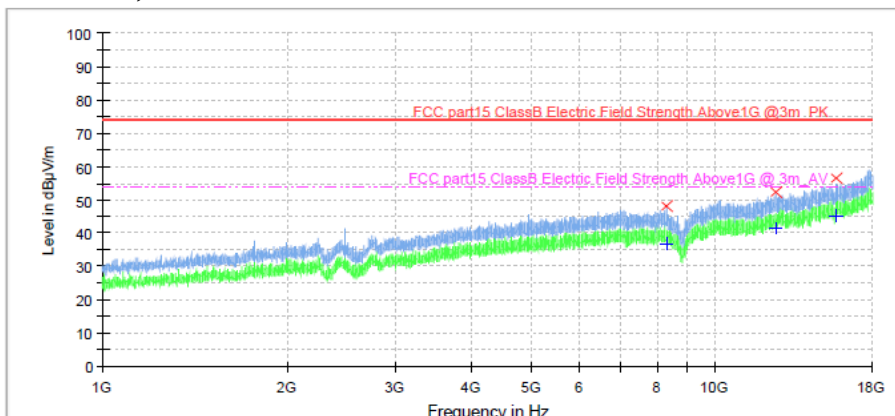
| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 32.050000       | 23.6               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 24.3       | 16.4              | 40.0                 |
| 409.320000      | 20.1               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 23.8       | 25.9              | 46.0                 |
| 714.390000      | 24.5               | 1000.0          | 120.000         | 150.0       | V   | 11.0          | 27.1       | 21.5              | 46.0                 |

**1GHz-18GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6196.685000     | 46.5             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 7.1        | 27.5              | 74.0                 |
| 10039.220000    | 51.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.7       | 23.0              | 74.0                 |
| 16881.185000    | 55.9             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 20.1       | 18.1              | 74.0                 |

**Limit and Margin-AV**

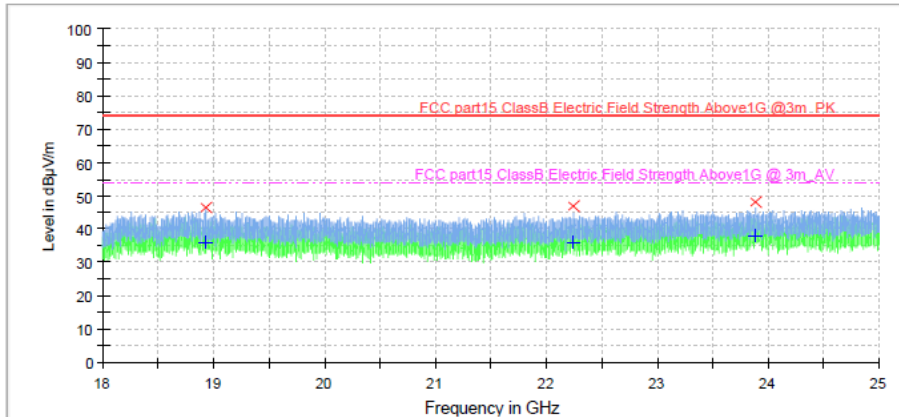
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 6196.685000     | 36.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 7.1        | 18.0              | 54.0                 |
| 10039.220000    | 40.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 11.7       | 14.0              | 54.0                 |
| 16881.185000    | 45.8             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | 20.1       | 8.2               | 54.0                 |

**1GHz-18GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 8284.500000     | 48.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.9        | 25.7              | 74.0                 |
| 12536.095000    | 52.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 14.5       | 21.7              | 74.0                 |
| 15732.095000    | 56.7             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.6       | 17.3              | 74.0                 |

**Limit and Margin-AV**

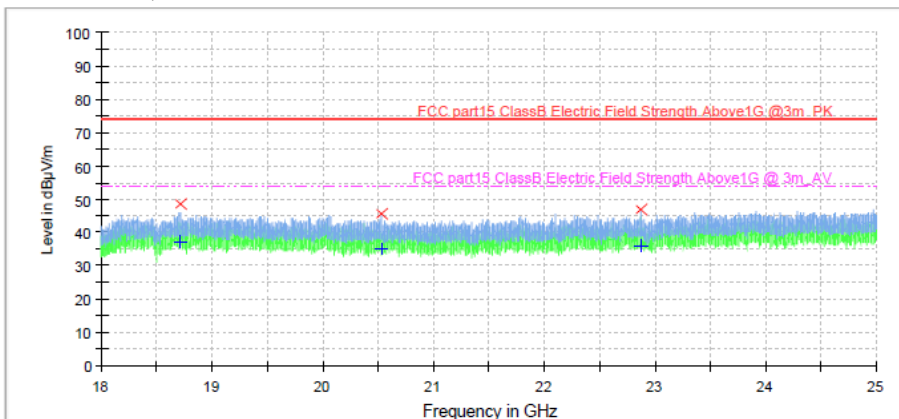
| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 8284.500000     | 37.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 8.9        | 17.0              | 54.0                 |
| 12536.095000    | 41.5             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 14.5       | 12.5              | 54.0                 |
| 15732.095000    | 45.3             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | 17.6       | 8.7               | 54.0                 |

**18GHz-25GHz, Horizontal**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18926.185000    | 46.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 27.4              | 74.0                 |
| 22241.125000    | 47.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -6.8       | 27.0              | 74.0                 |
| 23880.655000    | 48.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 25.8              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18926.185000    | 46.6             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -9.2       | 18.0              | 54.0                 |
| 22241.125000    | 47.0             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -6.8       | 18.1              | 54.0                 |
| 23880.655000    | 48.2             | 1000.0          | 1000.000        | 150.0       | H   | 0.0           | -4.5       | 16.0              | 54.0                 |

**18GHz-25GHz, Vertical**

**Limit and Margin-PK**

| Frequency (MHz) | MaxPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - PK+ (dB) | Limit - PK+ (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18708.095000    | 48.4             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 25.6              | 74.0                 |
| 20530.935000    | 45.6             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.1       | 28.4              | 74.0                 |
| 22865.655000    | 46.9             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.3       | 27.2              | 74.0                 |

**Limit and Margin-AV**

| Frequency (MHz) | Average (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - AVG (dB) | Limit - AVG (dBµV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|-----|---------------|------------|-------------------|----------------------|
| 18708.095000    | 37.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.2       | 16.9              | 54.0                 |
| 20530.935000    | 35.0             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -9.1       | 19.1              | 54.0                 |
| 22865.655000    | 36.1             | 1000.0          | 1000.000        | 150.0       | V   | 0.0           | -5.3       | 17.9              | 54.0                 |

Remark: All the modes had been tested, but only the worst data was recorded in the report.

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--The END --