



**CFR 47 FCC PART 15 SUBPART C
ISED RSS-210 ISSUE 10**

TEST REPORT

For

RC WHIRL BIG WHEEL STUNT CAR

MODEL NUMBER: 1003928

FCC ID: 2ACFM1003928001

REPORT NUMBER: E04A25051105F002

ISSUE DATE: June 12 2025

Prepared for

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**Baisha Industry Areas,Chenghai Borough, Shantou City,Guangdong Province,
China**

Prepared by

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Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above mentioned product, it does not imply an assessment of the production of the products.
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Guangdong Global Testing Technology Co., Ltd.**

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|-----------------|---------------|------------|
| V0 | June 12 2025 | Initial Issue | |

| Summary of Test Results | | | |
|--|---|--|--------------|
| Clause | Test Items | FCC/ISED Rules | Test Results |
| 1 | 20 dB Bandwidth and 99 % Occupied Bandwidth | CFR 47 FCC §15.215 (c) ISED RSS-Gen Clause 6.7 | Pass |
| 2 | Radiated Emission | CFR 47 FCC §15.249 (a)(d)(e) ISED RSS-210 Annex B B.10 CFR 47 FCC §15.205 and §15.209 RSS-GEN Clause 8.9 RSS-GEN Clause 8.10 | Pass |
| 3 | Conducted Emission Test for AC Power Port | CFR 47 FCC §15.207 RSS-GEN Clause 8.8 | Pass |
| 4 | Antenna Requirement | CFR 47 FCC §15.203 ISED RSS-Gen Clause 6.3 | Pass |
| <p>Note 1: N/A: In this whole report not applicable.</p> <p>Note 2: This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>Note 3: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C, ISED RSS-210 Issue 10 and ISED RSS-GEN Issue 5 > when <Accuracy Method> decision rule is applied.</p> | | | |

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Shantou City Daye Plastic Toys Co.,Ltd
Address: Baisha Industry Areas,Chenghai Borough, Shantou
City,Guangdong Province, China

Manufacturer Information

Company Name: Shantou City Daye Plastic Toys Co.,Ltd
Address: Baisha Industry Areas,Chenghai Borough, Shantou
City,Guangdong Province, China

EUT Information

EUT Name: RC WHIRL BIG WHEEL STUNT CAR
Model: 1003928
Serial Model: /
Brand: /
Sample Received Date: May 30, 2025
Sample Status: Normal
Sample ID: A25051105 003
Date of Tested: May 30, 2025 to June 12 2025

| APPLICABLE STANDARDS | |
|------------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART C | PASS |
| ISED RSS-210 ISSUE 10 | PASS |
| ISED RSS-GEN Issue 5 | PASS |

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 414788 D01 Radiated Test Site v01r01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, ISED RSS-210 Issue 10 and RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

| | |
|---------------------------|--|
| Accreditation Certificate | <p>A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules</p> <p>ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.</p> |
|---------------------------|--|

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Items | k | Uncertainty |
|--|------|-------------|
| 20dB Emission Bandwidth | 1.96 | ±9.2 PPM |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96. | | |

| Test Item | Measurement Frequency Range | K | U(dB) |
|---|-----------------------------|---|-------|
| Conducted emissions from the AC mains power ports (AMN) | 150 kHz ~ 30 MHz | 2 | 3.37 |
| Radiated emissions | 9 kHz ~ 30 MHz | 2 | 4.16 |
| Radiated emissions | 30 MHz ~ 1 GHz | 2 | 3.79 |
| Radiated emissions | 1 GHz ~ 18 GHz | 2 | 5.62 |
| Radiated emissions | 18 GHz ~ 40 GHz | 2 | 5.54 |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | | | |

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

| | | | |
|---------------------|------------------------------|---------------------------|---------------------|
| EUT Name | RC WHIRL BIG WHEEL STUNT CAR | | |
| Model | 1003928 | | |
| Series Model | / | | |
| Model Difference | / | | |
| Product Description | Operation Frequency | | 2405 MHz ~ 2475 MHz |
| | Modulation Type | | GFSK |
| Ratings | DC 5 V | | |
| Power Supply | Power Adapter | Input | / |
| | | Output | / |
| | Battery | DC 3.7V 500mAh, 1.85Wh | |

5.2. MAXIMUM FIELD STRENGTH

| Frequency (MHz) | Channel Number | Max PEAK field strength (dBμV/m) |
|-----------------|----------------|----------------------------------|
| 2440 | 4[4] | 64.58 |

5.3. CHANNEL LIST

| Channel | Frequency (MHz) |
|---------|-----------------|
| 1 | 2405 |
| 2 | 2440 |
| 3 | 2462 |
| 4 | 2475 |

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

| Ant. | Frequency (MHz) | Antenna Type | Antenna Gain (dBi) |
|------|-----------------|--------------|--------------------|
| 1 | 2405~ 2475 | Wire Antenna | 0.17 |

| Test Mode | Transmit and Receive Mode | Description |
|-----------|--|--|
| GFSK | <input checked="" type="checkbox"/> 1TX, 1RX | Antenna 1 can be used as transmitting/receiving antenna. |

Note: The value of the antenna gain was declared by customer.

5.5. TEST CHANNEL CONFIGURATION

| Test Mode | Test Channel | Frequency |
|-----------|---|------------------------------|
| GFSK | CH 1(Low Channel), CH 2(MID Channel), CH 4(High Channel) | 2405 MHz, 2440 MHz, 2475 MHz |

5.6. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter under 2405 MHz ~ 2475 MHz Band | | | | |
|---|-------------------------|--------------|---------|---------|
| Test Software Version | | / | | |
| Modulation Type | Transmit Antenna Number | Test Channel | | |
| | | CH 1 | CH 2 | CH 4 |
| GFSK | 1 | Default | Default | Default |

5.7. TEST ENVIRONMENT

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|---|
| Relative Humidity | 50 ~ 60% | |
| Atmospheric Pressure: | 1001Pa | |
| Temperature | TN | -10 ~ +60 °C |
| Voltage: | VL | / |
| | VN | Adapter(AC 120V 60Hz) to DC 5V, DC 3.7V |
| | VH | / |

Note: VL= Lower Extreme Test Voltage
 VN= Nominal Voltage
 VH= Upper Extreme Test Voltage
 TN= Normal Temperature

5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Note |
|------|-----------|-----------|----------------|------------|-------------|
| E-1 | Adapter | Xiaomi | MDY-11-EX | N/A | GTG Support |

I/O CABLES

No I/O cable.

ACCESSORY

| Cable | |
|------------|-------------|
| Accessory: | USB-A Cable |

| | |
|--------------|----------------------------|
| Model No.: | / |
| Description: | USB-A Cable |
| Cable Type: | Unshielded without ferrite |
| Length: | 0.26 Meter |

TEST SETUP

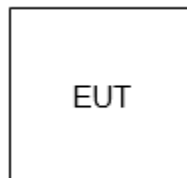
The EUT have an engineer mode inside.

SETUP DIAGRAM FOR TEST

AC Power Line Conducted Emission:



Radiated emissions:



Note: New battery was used during all tests.

6. MEASURING INSTRUMENT AND SOFTWARE USED

| Test Equipment of Conducted RF | | | | | |
|-------------------------------------|-----------------|----------------------|-------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 102257 | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51285127 | 2024/09/14 | 2025/09/13 |
| EXG Analog Signal Generator | KEYSIGHT | N5173B | MY61253075 | 2024/09/14 | 2025/09/13 |
| Vector Signal Generator | Rohde & Schwarz | SMM100A | 101899 | 2024/09/14 | 2025/09/13 |
| RF Control box | MWRF-test | MW100-RFCB | MW220926GTG | 2024/09/14 | 2025/09/13 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW270 | 102792 | 2024/09/14 | 2025/09/13 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 103235 | 2024/09/14 | 2025/09/13 |
| temperature humidity chamber | Espec | SH-241 | SH-241-2014 | 2024/09/14 | 2025/09/13 |
| RF Test Software | MWRF-test | MTS8310E (Ver. V2/0) | N/A | N/A | N/A |

| Test Equipment of Radiated emissions below 1GHz | | | | | |
|---|-----------------|-------------------------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| 3m Semi-anechoic Chamber | ETS | 9m*6m*6m | Q2146 | 2022/08/30 | 2025/08/29 |
| EMI Test Receiver | Rohde & Schwarz | ESCI3 | 101409 | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2024/09/14 | 2025/09/13 |
| Pre-Amplifier | HzEMC | HPA-9K0130 | HYPA21001 | 2024/09/14 | 2025/09/13 |
| Biconilog Antenna | Schwarzbeck | VULB 9168 | 01315 | 2022/10/10 | 2025/10/09 |
| Biconilog Antenna | ETS | 3142E | 00243651 | 2025/02/22 | 2028/02/21 |
| Loop Antenna | ETS | 6502 | 00243668 | 2025/02/22 | 2028/02/21 |
| Test Software | Farad | EZ-EMC (Ver.FA-03A2 RE) | N/A | N/A | N/A |

| Test Equipment of Radiated emissions above 1GHz | | | | | |
|---|-----------------|------------|------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| 3m Semi-anechoic Chamber | ETS | 9m*6m*6m | Q2149 | 2022/08/30 | 2025/08/29 |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101413 | 2024/09/14 | 2025/09/13 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2024/09/14 | 2025/09/13 |
| Pre-Amplifier | HzEMC | HPA-1G1850 | HYPA21003 | 2024/09/14 | 2025/09/13 |
| Horn antenna | ETS | 3117 | 00246069 | 2025/02/22 | 2028/02/21 |

| | | | | | |
|----------------|-------|--------------------------------|-------------|------------|------------|
| Pre-Amplifier | HzEMC | HPA-184057 | HYP A21004 | 2024/09/14 | 2025/09/13 |
| Horn antenna | ETS | 3116C | 00246265 | 2025/02/22 | 2028/02/21 |
| RF Filter Bank | HzEMC | HSW-F18 | HSWF2218E01 | 2024/09/14 | 2025/09/13 |
| RF Filter Bank | HzEMC | HPF18 | HPF2218E02 | 2024/09/14 | 2025/09/13 |
| Test Software | Farad | EZ-EMC (Ver.FA-03A2 RE+) | N/A | N/A | N/A |

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

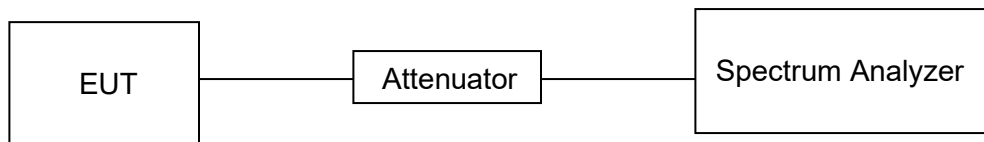
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------|
| Temperature | 22.9 °C | Relative Humidity | 53 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | DC 3.7 V |

RESULTS

| Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (db) |
|------|----------------|---------------|-----------------------|----------------|-----------------------------------|
| GFSK | 32.87 | 100 | 0.3287 | 32.87 | -9.66 |

Note:

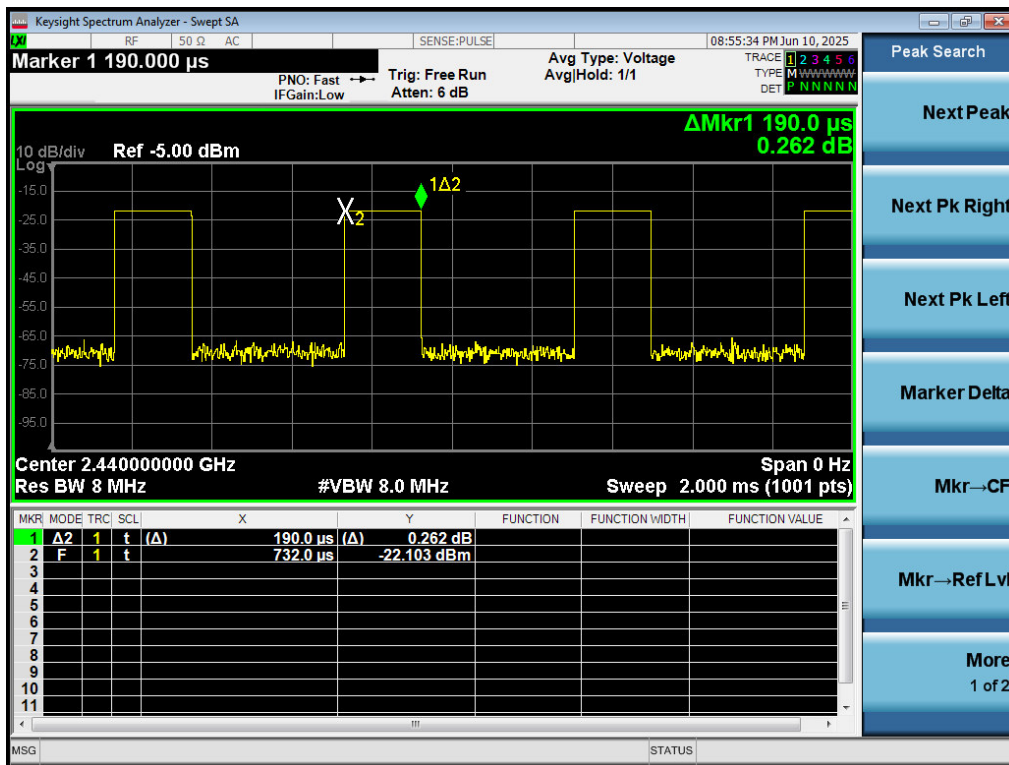
On Time = On Time * On Time Burst Number = 0.190 * 173 = 32.87 ms;

Duty Cycle = On Time / Period % = 32.87/100*% = 32.87%;

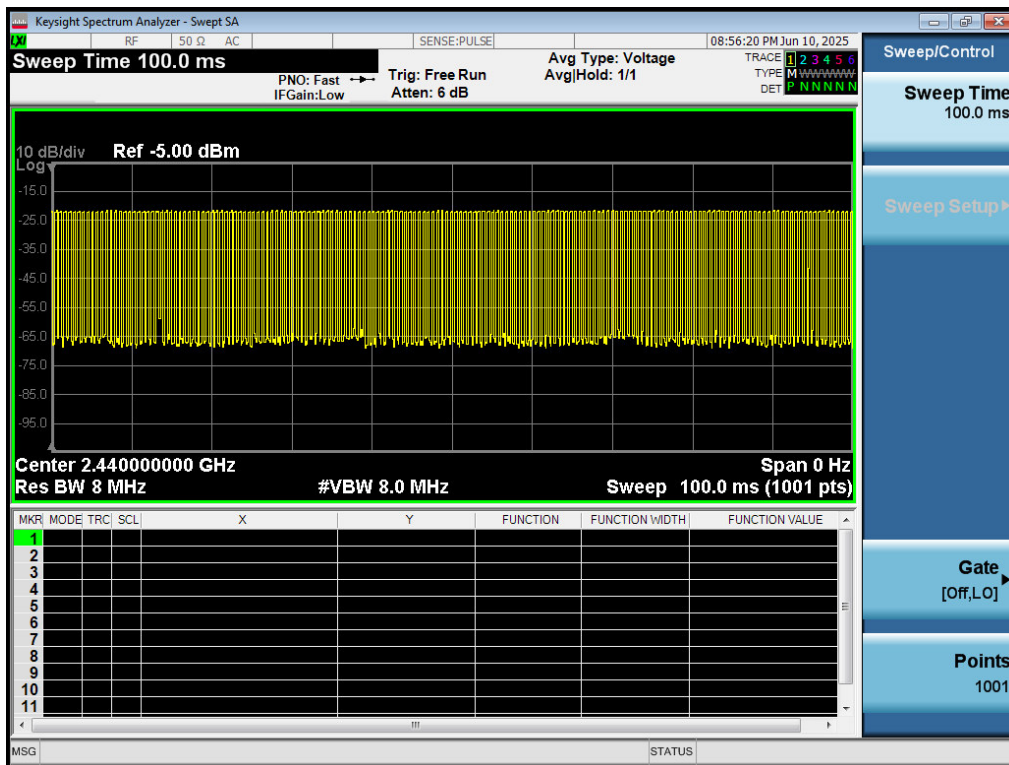
Duty Cycle Correction Factor=20log(x);

Where: x is Duty Cycle

ON TIME AND DUTY CYCLE MID CH PLOT



ON TIME AND DUTY CYCLE MID CH PLOT-2



Note: All the modes had been tested, but only the worst duty cycle recorded in the report.

TRF No.: 04-E001-0B

Global Testing , Great Quality.

7.2. 20 dB BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

LIMITS

| CFR 47 FCC Part15 (15.249) Subpart C RSS-Gen Issue 5 | | | |
|---|-------------------------|------------------------------|-----------------------|
| Section | Test Item | Limit | Frequency Range (MHz) |
| CFR 47 FCC §15.215 (c) | 20 dB Bandwidth | for reporting purposes only | 2400-2483.5 |
| ISED RSS-Gen Clause 6.7 Issue 5 | 99 % Occupied Bandwidth | For reporting purposes only. | 2400-2483.5 |

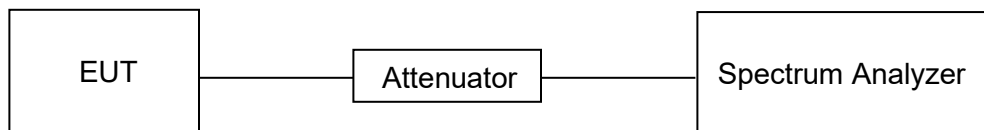
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | Peak |
| RBW | 1 % to 5 % of the occupied bandwidth |
| VBW | approximately 3×RBW |
| Trace | Max hold |
| Sweep | Auto couple |

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB / 99 % relative to the maximum level measured in the fundamental emission.

TEST SETUP



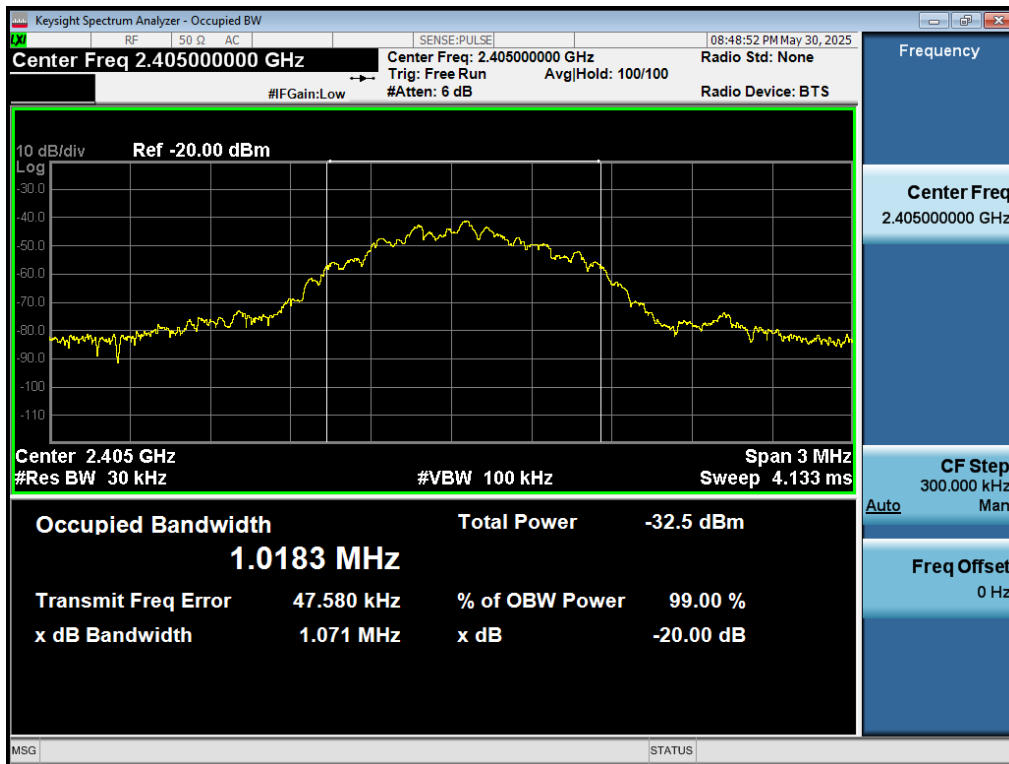
TEST ENVIRONMENT

| | | | |
|---------------------|---------|-------------------|----------|
| Temperature | 22.9 °C | Relative Humidity | 53 % |
| Atmosphere Pressure | 101 kPa | Test Voltage | DC 3.7 V |

RESULTS

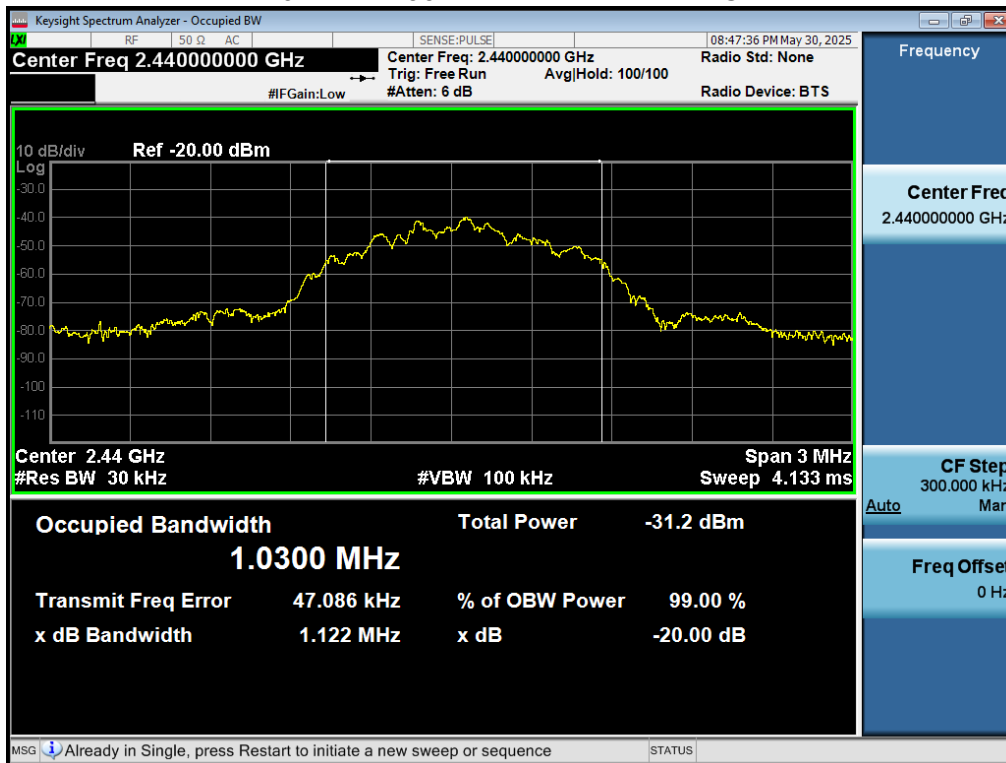
| Frequency (MHz) | 20 dB bandwidth (MHz) | 99 % bandwidth (MHz) | Result |
|-----------------|-----------------------|----------------------|--------|
| 2405 | 1.071 | 1.0183 | PASS |

20 dB and 99% BANDWIDTH LOW CH



| Frequency (MHz) | 20 dB bandwidth (MHz) | 99 % bandwidth (MHz) | Result |
|-----------------|-----------------------|----------------------|--------|
| 2440 | 1.122 | 1.0300 | PASS |

20 dB and 99% BANDWIDTH MID CH



| Frequency (MHz) | 20 dB bandwidth (MHz) | 99 % bandwidth (MHz) | Result |
|-----------------|-----------------------|----------------------|--------|
| 2475 | 1.122 | 1.0346 | PASS |

20 dB and 99% HIG CH



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

CFR 47 FCC §15.205 and §15.209

CFR 47 FCC §15.249 (a)(d)(c)(e)

ISED RSS-210 Issue 10 Annex B B.10

RSS-GEN Clause 8.9

| The field strength of emissions from intentional radiators operated within these frequency bands | | | |
|--|-------------------------------|-----------------------------|--------------|
| Frequency (MHz) | Field strength of Fundamental | Field strength of Harmonics | Distance (m) |
| 902 - 928 | 50 mV/m (94 dBuV/m) | 500 uV/m (54 dBuV/m) | 3 |
| 2400 – 2483.5 | 50 mV/m (94 dBuV/m) | 500 uV/m (54 dBuV/m) | 3 |
| 5725 – 5875 | 50 mV/m (94 dBuV/m) | 500 uV/m (54 dBuV/m) | 3 |

| Emissions radiated outside of the specified frequency bands above 30MHz | | | |
|---|------------------------------------|--------------------------------------|---------|
| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m | |
| | | Quasi-Peak | |
| 30 - 88 | 100 | 40 | |
| 88 - 216 | 150 | 43.5 | |
| 216 - 960 | 200 | 46 | |
| Above 960 | 500 | 54 | |
| Above 1000 | 500 | Peak | Average |
| | | 74 | 54 |

| FCC Emissions radiated outside of the specified frequency bands below 30 MHz | | |
|--|-----------------------------------|-------------------------------|
| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz

| Frequency | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) |
|-------------------------------|--|--------------------------|
| 9 - 490 kHz ^{Note 1} | 6.37/F (F in kHz) | 300 |
| 490 - 1705 kHz | 63.7/F (F in kHz) | 30 |
| 1.705 - 30 MHz | 0.08 | 30 |

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

Table 7 – Restricted frequency bands^{Note 1}

| MHz | MHz | GHz |
|---------------------|-----------------------|---------------|
| 0.090 - 0.110 | 149.9 - 150.05 | 9.0 - 9.2 |
| 0.495 - 0.505 | 156.52475 - 156.52525 | 9.3 - 9.5 |
| 2.1735 - 2.1905 | 156.7 - 156.9 | 10.6 - 12.7 |
| 3.020 - 3.026 | 162.0125 - 167.17 | 13.25 - 13.4 |
| 4.125 - 4.128 | 167.72 - 173.2 | 14.47 - 14.5 |
| 4.17725 - 4.17775 | 240 - 285 | 15.35 - 16.2 |
| 4.20725 - 4.20775 | 322 - 335.4 | 17.7 - 21.4 |
| 5.677 - 5.683 | 399.9 - 410 | 22.01 - 23.12 |
| 6.215 - 6.218 | 608 - 614 | 23.6 - 24.0 |
| 6.26775 - 6.26825 | 960 - 1427 | 31.2 - 31.8 |
| 6.31175 - 6.31225 | 1435 - 1626.5 | 36.43 - 36.5 |
| 8.291 - 8.294 | 1645.5 - 1646.5 | Above 36.6 |
| 8.362 - 8.366 | 1660 - 1710 | |
| 8.37625 - 8.38675 | 1718.8 - 1722.2 | |
| 8.41425 - 8.41475 | 2200 - 2300 | |
| 12.29 - 12.293 | 2310 - 2390 | |
| 12.51975 - 12.52025 | 2483.5 - 2500 | |
| 12.57675 - 12.57725 | 2655 - 2900 | |
| 13.36 - 13.41 | 3260 - 3267 | |
| 16.42 - 16.423 | 3332 - 3339 | |
| 16.69475 - 16.69525 | 3345.8 - 3358 | |
| 16.80425 - 16.80475 | 3500 - 4400 | |
| 25.5 - 25.67 | 4500 - 5150 | |
| 37.5 - 38.25 | 5350 - 5460 | |
| 73 - 74.6 | 7250 - 7750 | |
| 74.8 - 75.2 | 8025 - 8500 | |
| 108 - 138 | | |

Note 1: Certain frequency bands listed in table 7 and in bands above 36.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation:

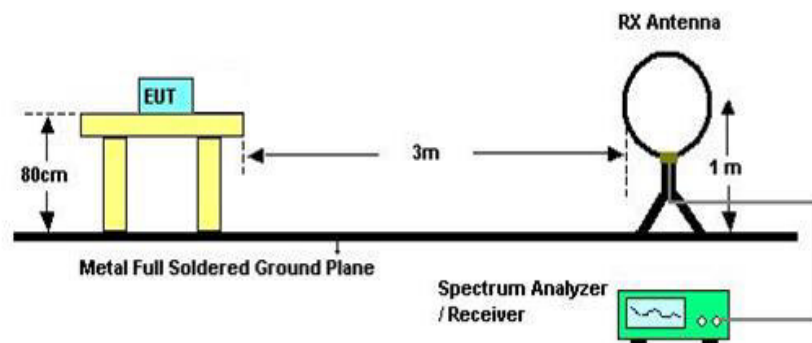
| MHz | MHz | MHz | GHz |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| ¹ 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (²) |
| 13.36-13.41 | | | |

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30 MHz



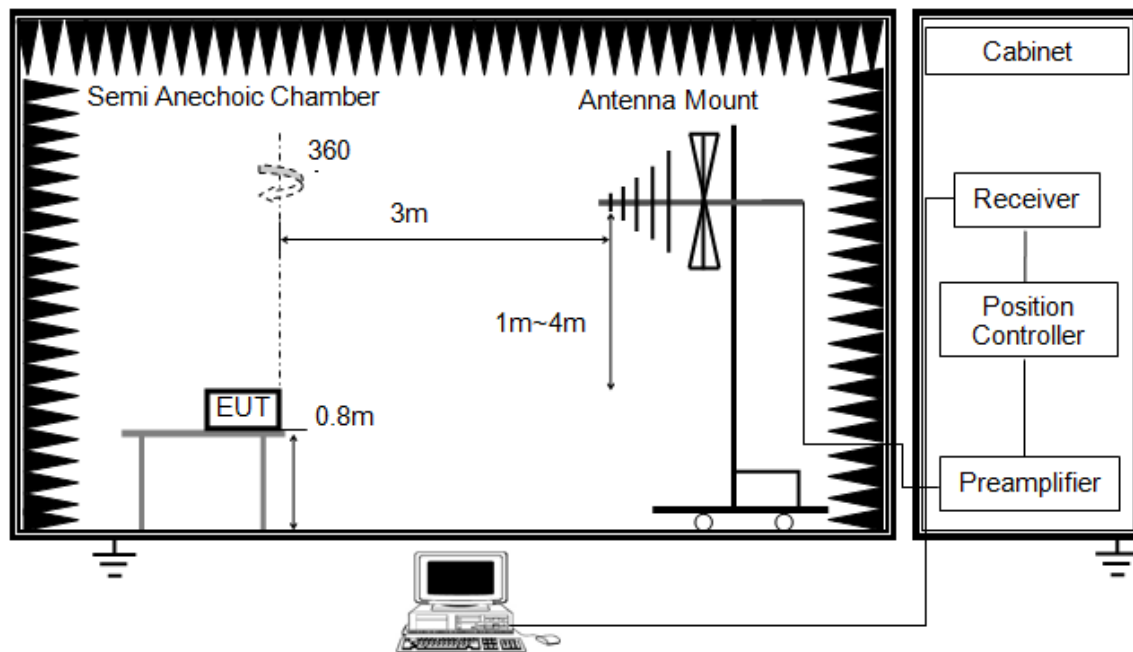
The setting of the spectrum analyzer

| | |
|----------|--|
| RBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| VBW | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto |
| Detector | Peak/QP/ Average |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1GHz



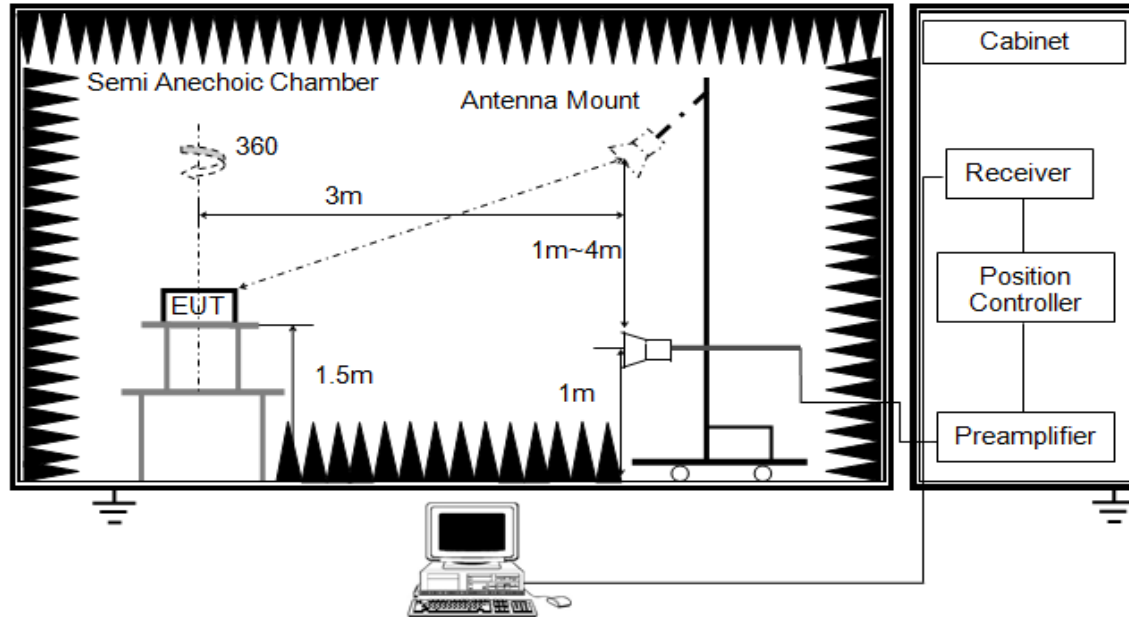
The setting of the spectrum analyzer

| | |
|----------|----------|
| RBW | 120 kHz |
| VBW | 300 kHz |
| Sweep | Auto |
| Detector | Peak/QP |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.

4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured

Above 1 GHz

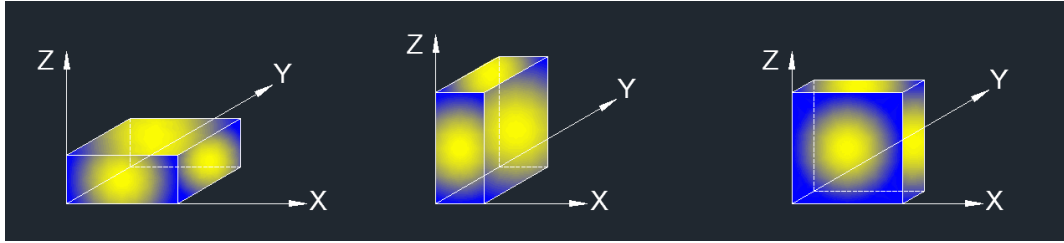


The setting of the spectrum analyzer

| | |
|----------|--------------------------------|
| RBW | 1 MHz |
| VBW | PEAK: 3 MHz AVG: see note 6 |
| Sweep | Auto |
| Detector | Peak |
| Trace | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 150 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements. Where necessary, average emission are determined by applying the Duty Cycle Correction Factor to the peak measurements. For the Duty Cycle and Correction Factor please refer to clause 6.1. ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

TEST ENVIRONMENT

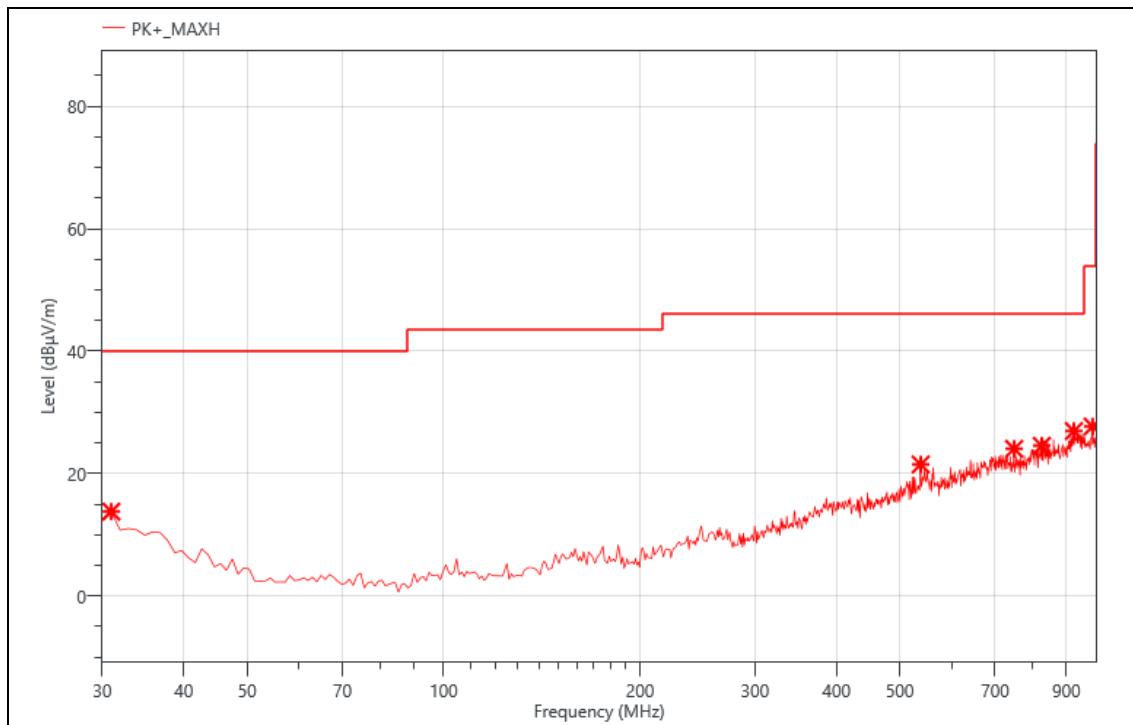
| | | | |
|---------------------|---------|-------------------|---------|
| Temperature | 23.6°C | Relative Humidity | 51% |
| Atmosphere Pressure | 101 kPa | Test Voltage | DC 3.7V |

TEST RESULTS

Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)

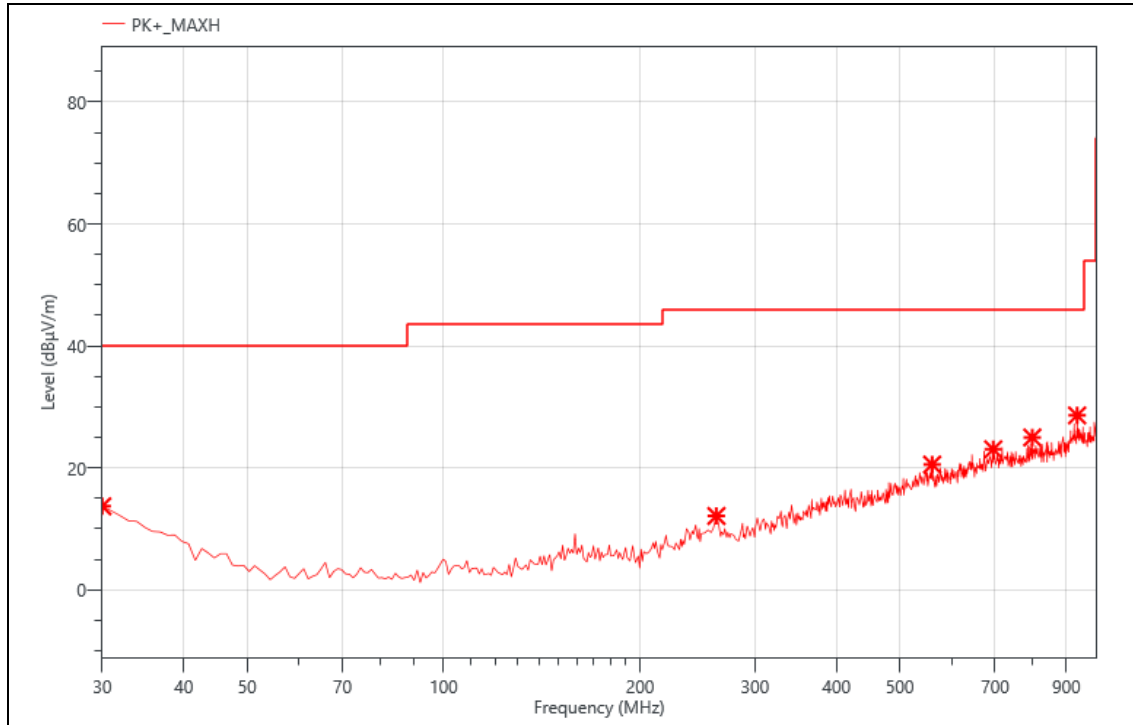
All modes have been tested and the worst result as bellow:

| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Big |
| Date | 2025/06/3 |
| T/A/P | 23.5°C/51%/101Kpa |

**Critical_Freqs**

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 30.970 | 28.64 | -14.87 | 13.77 | 40.00 | 26.23 | PK+ | H |
| 2 | 538.280 | 31.57 | -10.09 | 21.48 | 46.00 | 24.52 | PK+ | H |
| 3 | 748.770 | 30.69 | -6.65 | 24.04 | 46.00 | 21.96 | PK+ | H |
| 4 | 825.400 | 29.91 | -5.37 | 24.54 | 46.00 | 21.46 | PK+ | H |
| 5 | 924.340 | 29.45 | -2.51 | 26.94 | 46.00 | 19.06 | PK+ | H |
| 6 | 987.390 | 30.22 | -2.54 | 27.68 | 53.90 | 26.22 | PK+ | H |

| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Big |
| Date | 2025/06/3 |
| T/A/P | 23.5°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 30.000 | 28.02 | -14.32 | 13.70 | 40.00 | 26.30 | PK+ | V |
| 2 | 261.830 | 30.37 | -18.26 | 12.11 | 46.00 | 33.89 | PK+ | V |
| 3 | 560.590 | 30.58 | -10.04 | 20.54 | 46.00 | 25.46 | PK+ | V |
| 4 | 695.420 | 30.15 | -7.1 | 23.05 | 46.00 | 22.95 | PK+ | V |
| 5 | 798.240 | 30.82 | -5.83 | 24.99 | 46.00 | 21.01 | PK+ | V |
| 6 | 935.010 | 30.77 | -2.16 | 28.61 | 46.00 | 17.39 | PK+ | V |

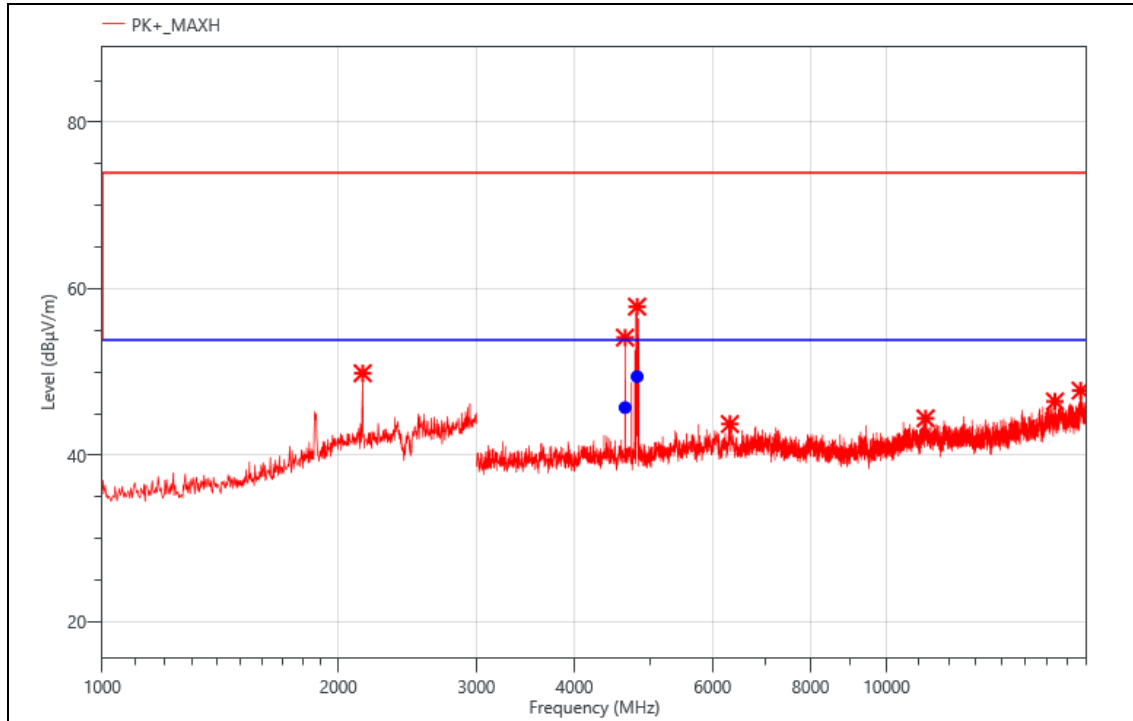
Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)

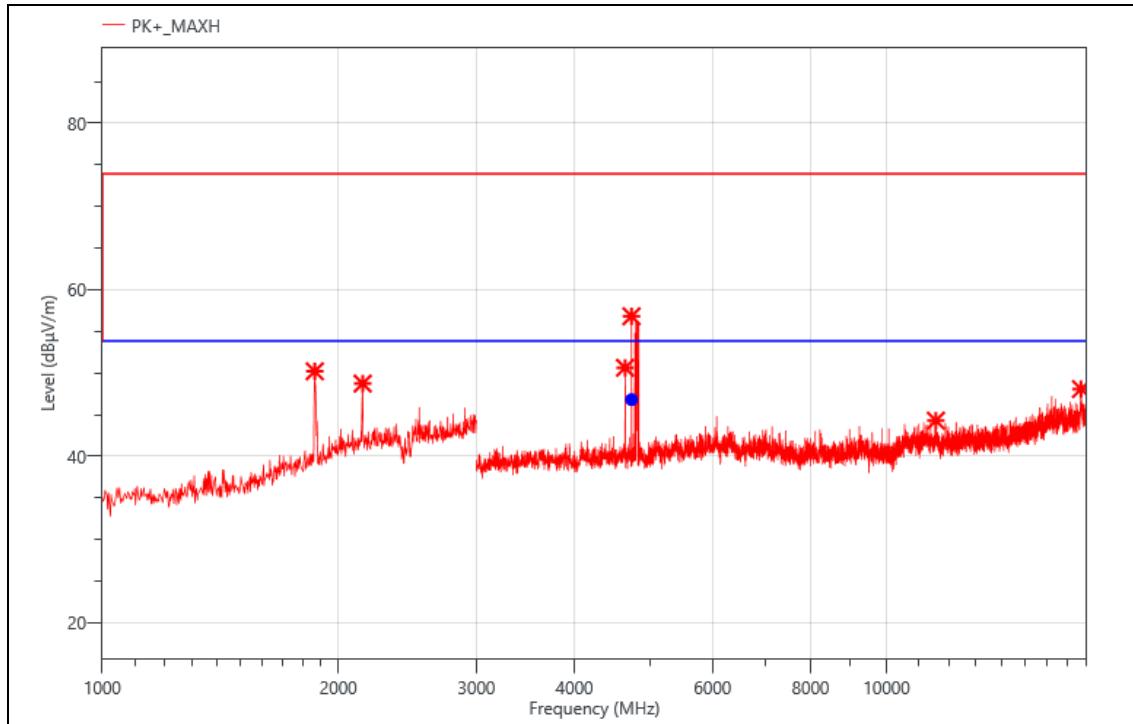
All modes have been tested and the worst result as bellow:

| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |

**Critical_Freqs**

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2148.000 | 58.91 | -9.05 | 49.86 | 74.00 | 24.14 | PK+ | V |
| 2 | 4641.000 | 65.67 | -11.53 | 54.14 | 74.00 | 19.86 | PK+ | V |
| / | / | / | / | 44.48 | 53.90 | 9.42 | AVG | V |
| 3 | 4807.500 | 69.22 | -11.36 | 57.86 | 74.00 | 16.14 | PK+ | V |
| / | / | / | / | 48.20 | 53.90 | 5.70 | AVG | V |
| 4 | 6313.500 | 51.38 | -7.62 | 43.76 | 74.00 | 30.24 | PK+ | V |
| 5 | 11215.500 | 48.59 | -4.14 | 44.45 | 74.00 | 29.55 | PK+ | V |
| 6 | 16395.000 | 47.66 | -1.18 | 46.48 | 74.00 | 27.52 | PK+ | V |
| 7 | 17679.000 | 47.49 | 0.29 | 47.78 | 74.00 | 26.22 | PK+ | V |

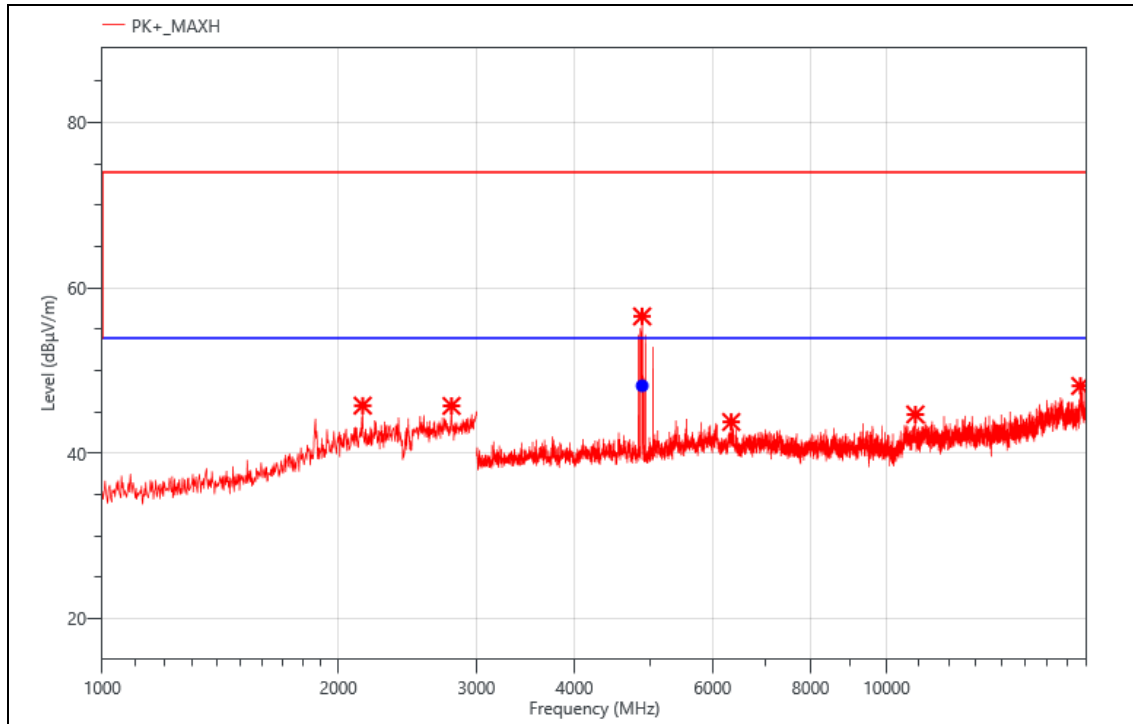
| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 1866.000 | 60.61 | -10.39 | 50.22 | 74.00 | 23.78 | PK+ | H |
| 2 | 2148.000 | 57.80 | -9.05 | 48.75 | 74.00 | 25.25 | PK+ | H |
| 3 | 4641.000 | 62.17 | -11.53 | 50.64 | 74.00 | 23.36 | PK+ | H |
| 4 | 4729.500 | 68.47 | -11.65 | 56.82 | 74.00 | 17.18 | PK+ | H |
| / | / | / | / | 47.16 | 53.90 | 6.74 | AVG | H |
| 5 | 11557.500 | 48.52 | -4.22 | 44.30 | 74.00 | 29.70 | PK+ | H |
| 6 | 17698.500 | 47.89 | 0.19 | 48.08 | 74.00 | 25.92 | PK+ | H |

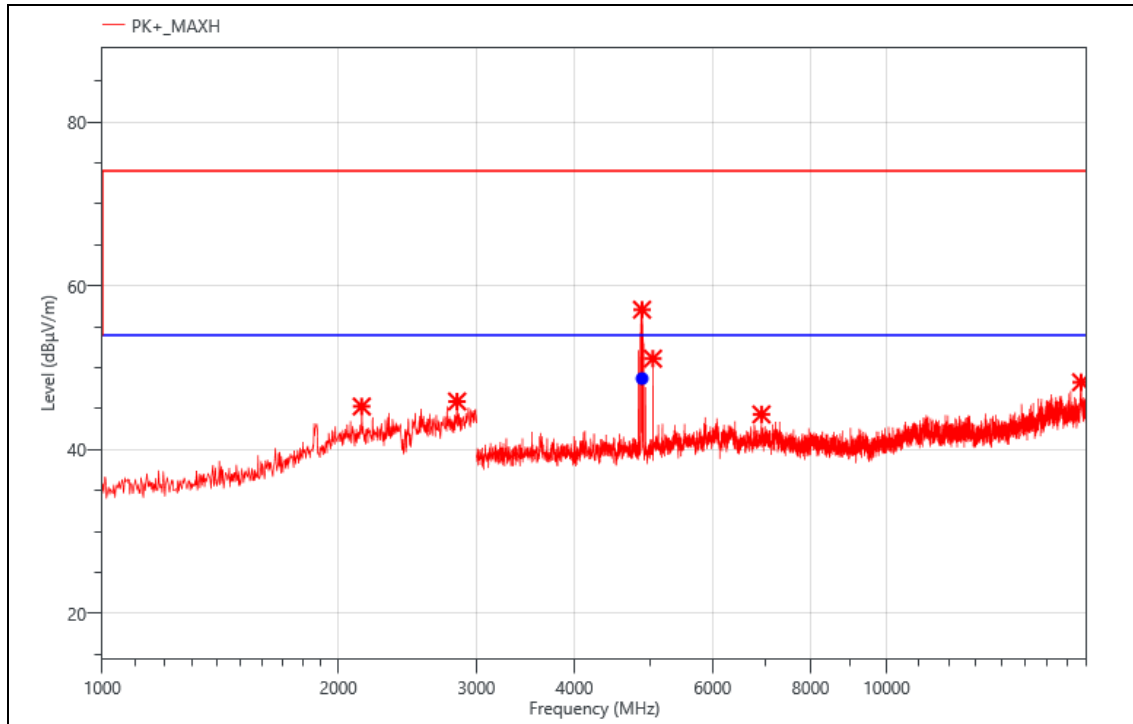
| | |
|--------|-------------------|
| Mode: | 2440 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2148.000 | 54.80 | -9.05 | 45.75 | 74.00 | 28.25 | PK+ | H |
| 2 | 2788.000 | 54.15 | -8.43 | 45.72 | 74.00 | 28.28 | PK+ | H |
| 3 | 4879.500 | 67.69 | -11.14 | 56.55 | 74.00 | 17.45 | PK+ | H |
| / | / | / | / | 46.89 | 53.90 | 7.01 | AVG | H |
| 4 | 6337.500 | 51.79 | -8.02 | 43.77 | 74.00 | 30.23 | PK+ | H |
| 5 | 10882.500 | 49.81 | -5.13 | 44.68 | 74.00 | 29.32 | PK+ | H |
| 6 | 17664.000 | 47.96 | 0.17 | 48.13 | 74.00 | 25.87 | PK+ | H |

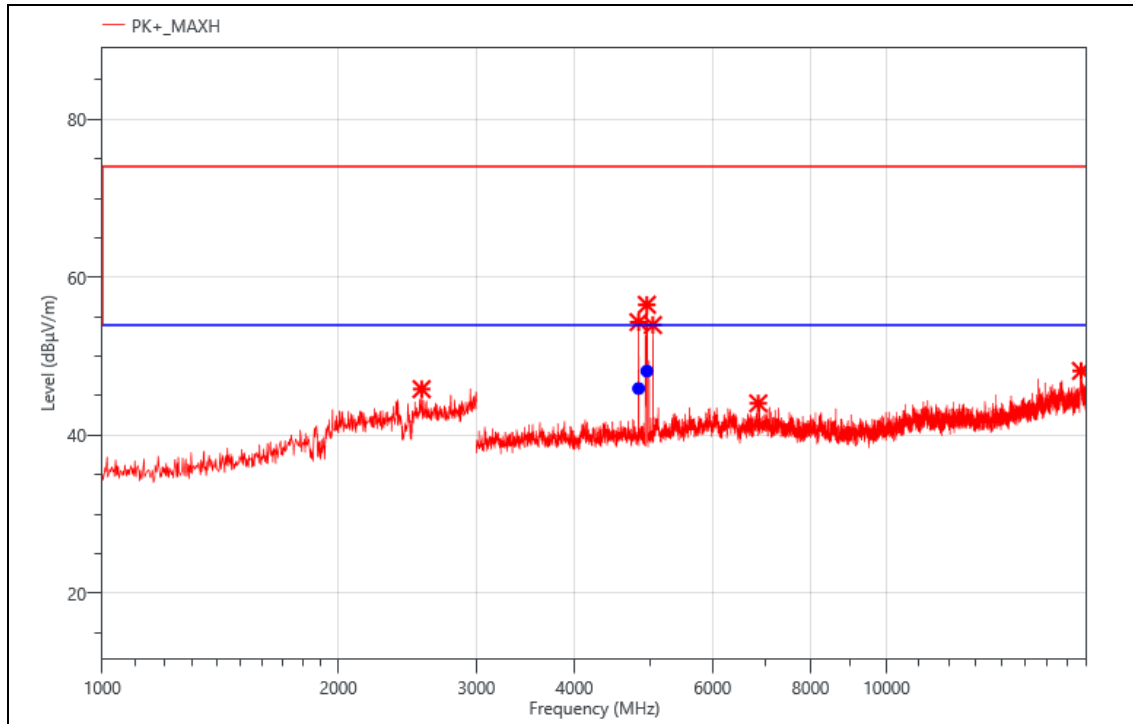
| | |
|--------|-------------------|
| Mode: | 2440 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2142.000 | 54.31 | -9.05 | 45.26 | 74.00 | 28.74 | PK+ | V |
| 2 | 2834.000 | 53.64 | -7.77 | 45.87 | 74.00 | 28.13 | PK+ | V |
| 3 | 4878.000 | 68.21 | -11.14 | 57.07 | 74.00 | 16.93 | PK+ | V |
| / | / | / | / | 47.41 | 53.90 | 6.49 | AVG | V |
| 4 | 5035.500 | 62.19 | -11.09 | 51.10 | 74.00 | 22.90 | PK+ | V |
| 5 | 6925.500 | 52.39 | -8.1 | 44.29 | 74.00 | 29.71 | PK+ | V |
| 6 | 17704.500 | 48.14 | 0.08 | 48.22 | 74.00 | 25.78 | PK+ | V |

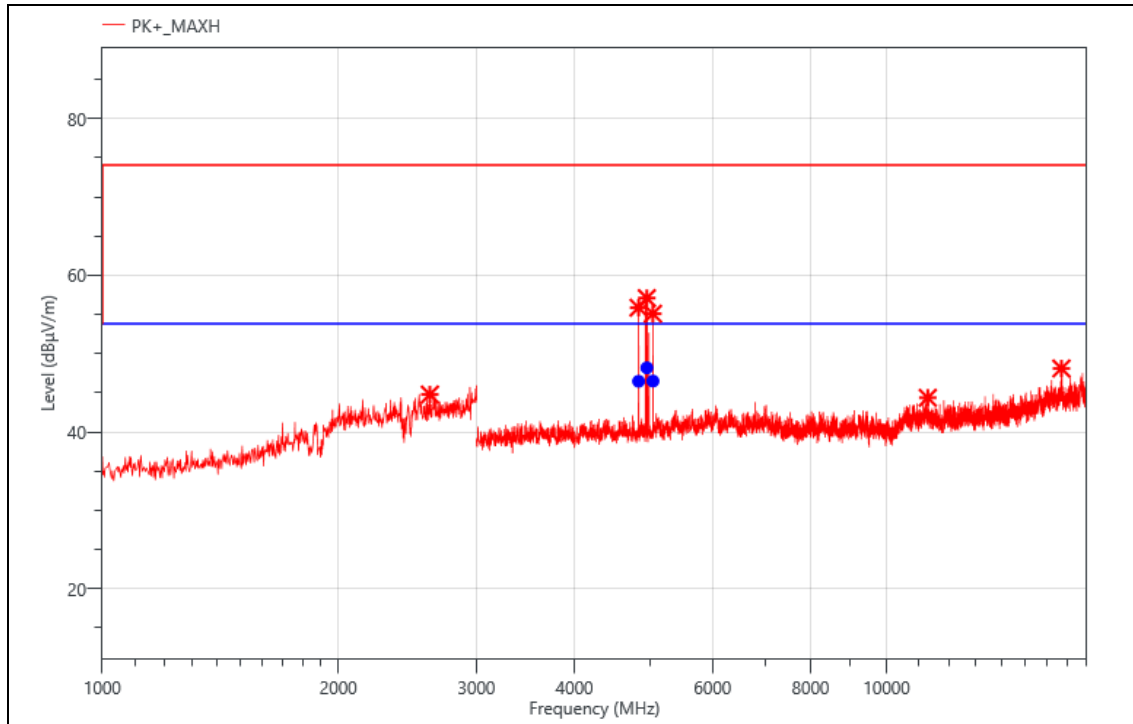
| | |
|--------|-------------------|
| Mode: | 2475 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2554.000 | 53.92 | -8.07 | 45.85 | 74.00 | 28.15 | PK+ | V |
| 2 | 4828.500 | 65.82 | -11.5 | 54.32 | 74.00 | 19.68 | PK+ | V |
| / | / | / | / | 44.66 | 53.90 | 9.24 | AVG | V |
| 3 | 4947.000 | 67.78 | -11.25 | 56.53 | 74.00 | 17.47 | PK+ | V |
| / | / | / | / | 46.87 | 53.90 | 7.03 | AVG | V |
| 4 | 5035.500 | 65.05 | -11.09 | 53.96 | 74.00 | 20.04 | PK+ | V |
| 5 | 6862.500 | 52.23 | -8.18 | 44.05 | 74.00 | 29.95 | PK+ | V |
| 6 | 17701.500 | 48.01 | 0.14 | 48.15 | 74.00 | 25.85 | PK+ | V |

| | |
|--------|-------------------|
| Mode: | 2475 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2616.000 | 53.14 | -8.36 | 44.78 | 74.00 | 29.22 | PK+ | H |
| 2 | 4828.500 | 67.37 | -11.5 | 55.87 | 74.00 | 18.13 | PK+ | H |
| / | / | / | / | 46.21 | 53.90 | 7.69 | AVG | H |
| 3 | 4947.000 | 68.34 | -11.25 | 57.09 | 74.00 | 16.91 | PK+ | H |
| / | / | / | / | 47.43 | 53.90 | 6.47 | AVG | H |
| 4 | 5035.500 | 66.19 | -11.09 | 55.10 | 74.00 | 18.90 | PK+ | H |
| / | / | / | / | 45.44 | 53.90 | 8.46 | AVG | H |
| 5 | 11286.000 | 48.56 | -4.2 | 44.36 | 74.00 | 29.64 | PK+ | H |
| 6 | 16708.500 | 48.83 | -0.73 | 48.10 | 74.00 | 25.90 | PK+ | H |

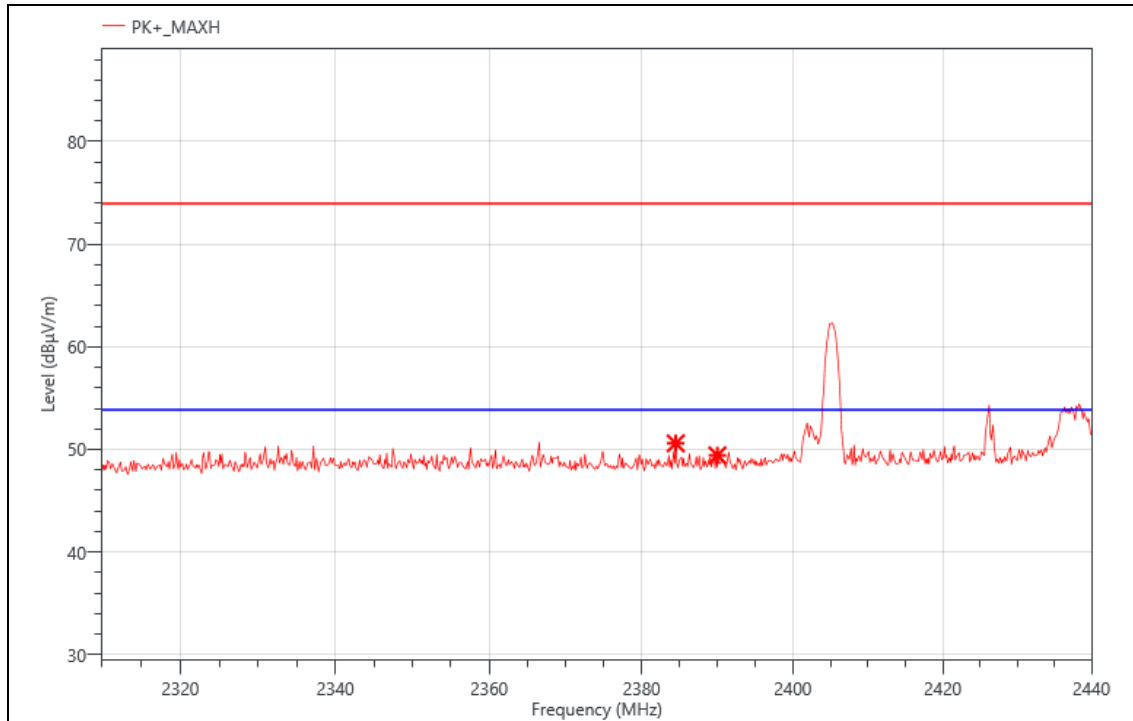
Note:

1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
 5. AVG Meas = Peak Meas - Duty Cycle Correction Factor (db).
- For 9KHz to the frequency above 18 GHz, a pre-scan was performed, and the result was 20 dB lower than the limit line, the test data was not shown in the report.

Band Edge

All modes have been tested and the worst result as bellow:

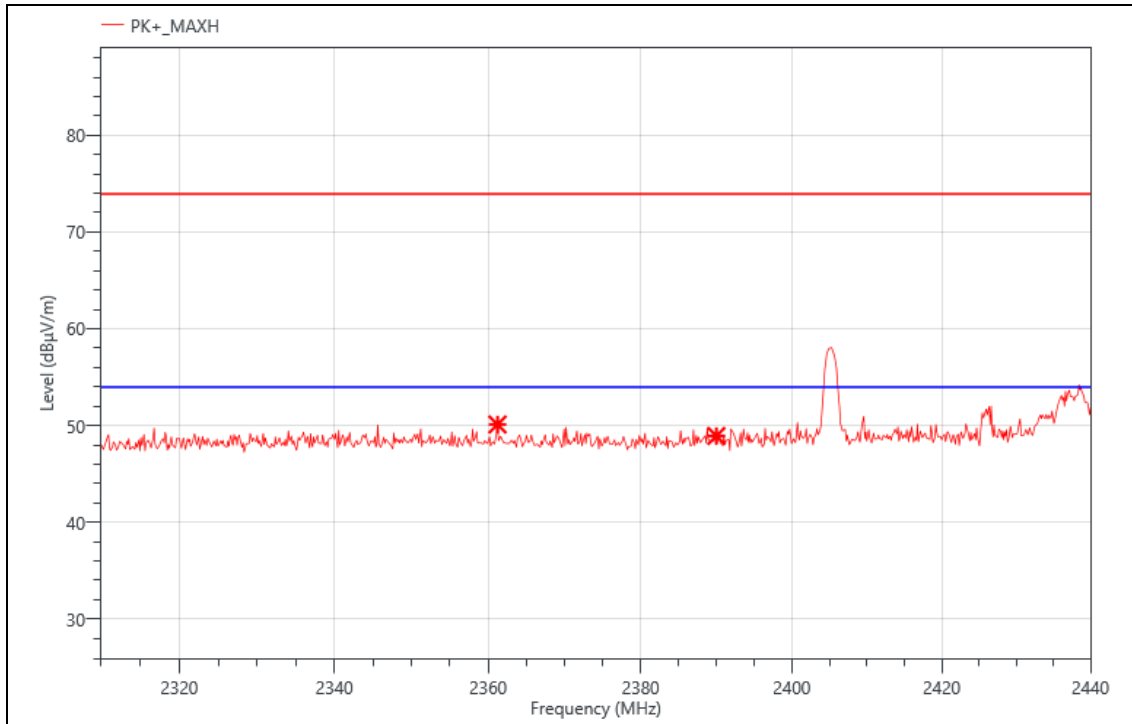
| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2384.490 | 27.99 | 22.61 | 50.60 | 74.00 | 23.40 | PK+ | H |
| 2 | 2390.000 | 26.71 | 22.72 | 49.43 | 74.00 | 24.57 | PK+ | H |

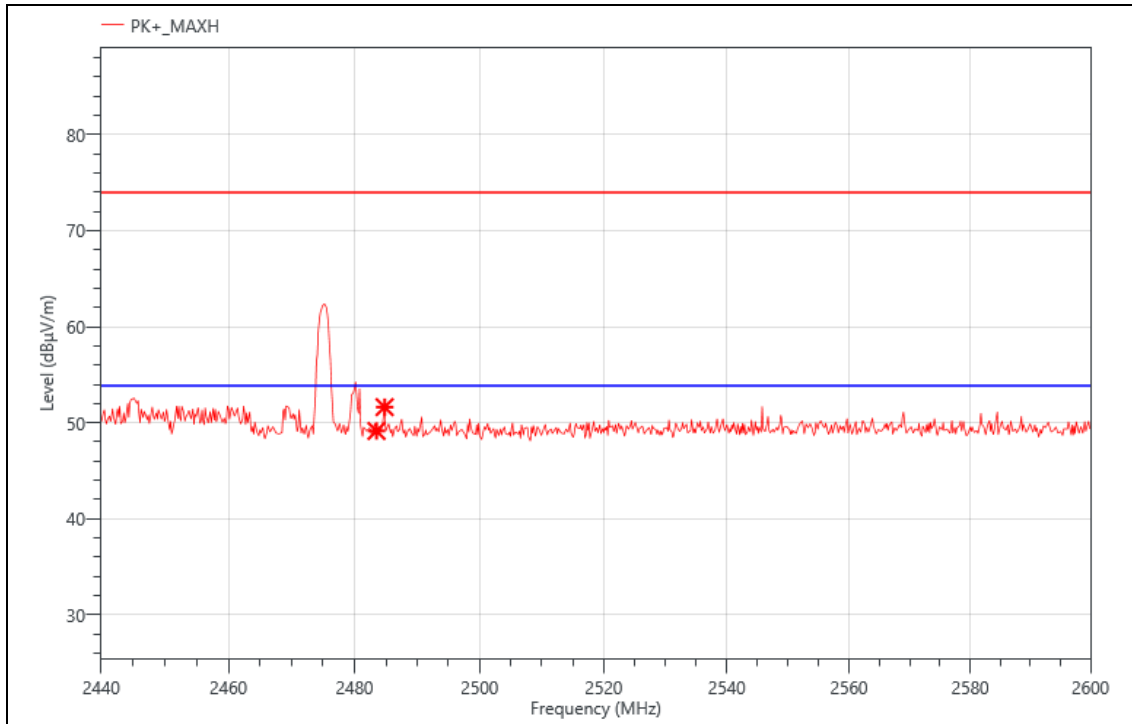
| | |
|--------|-------------------|
| Mode: | 2405 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2361.220 | 27.40 | 22.71 | 50.11 | 74.00 | 23.89 | PK+ | V |
| 2 | 2390.000 | 26.20 | 22.72 | 48.92 | 74.00 | 25.08 | PK+ | V |

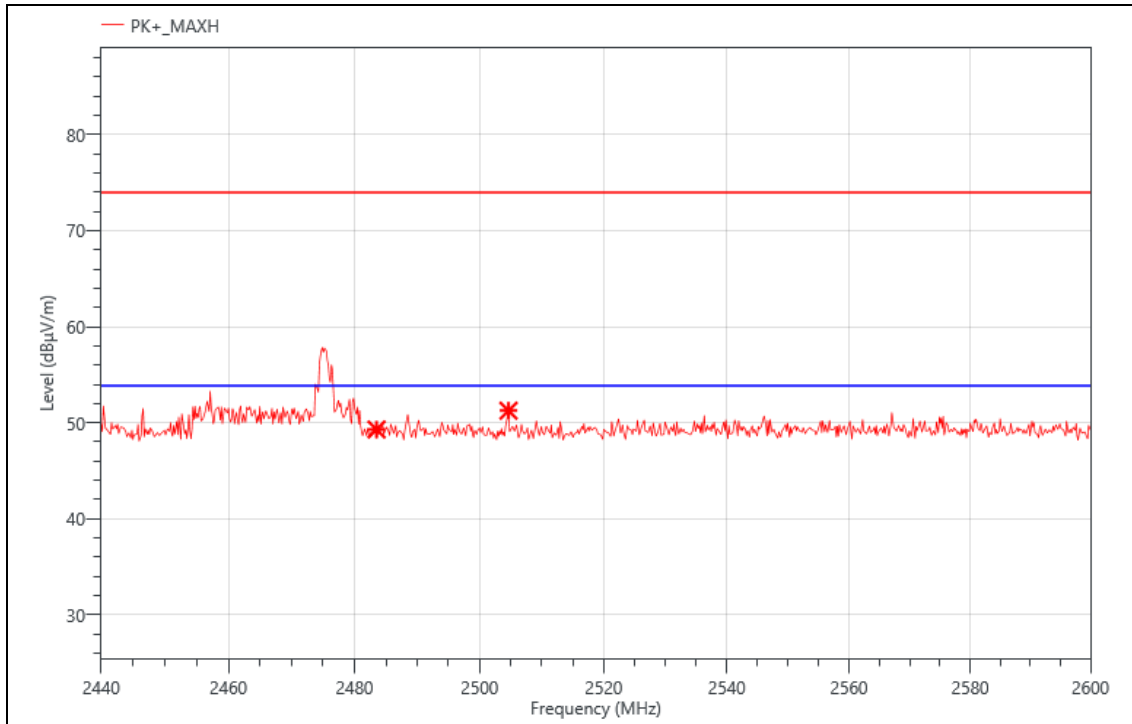
| | |
|--------|-------------------|
| Mode: | 2475 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2483.500 | 25.99 | 23.15 | 49.14 | 74.00 | 24.86 | PK+ | H |
| 2 | 2484.800 | 28.48 | 23.15 | 51.63 | 74.00 | 22.37 | PK+ | H |

| | |
|--------|-------------------|
| Mode: | 2475 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2483.500 | 26.15 | 23.15 | 49.30 | 74.00 | 24.70 | PK+ | V |
| 2 | 2504.640 | 28.16 | 23.1 | 51.26 | 74.00 | 22.74 | PK+ | V |

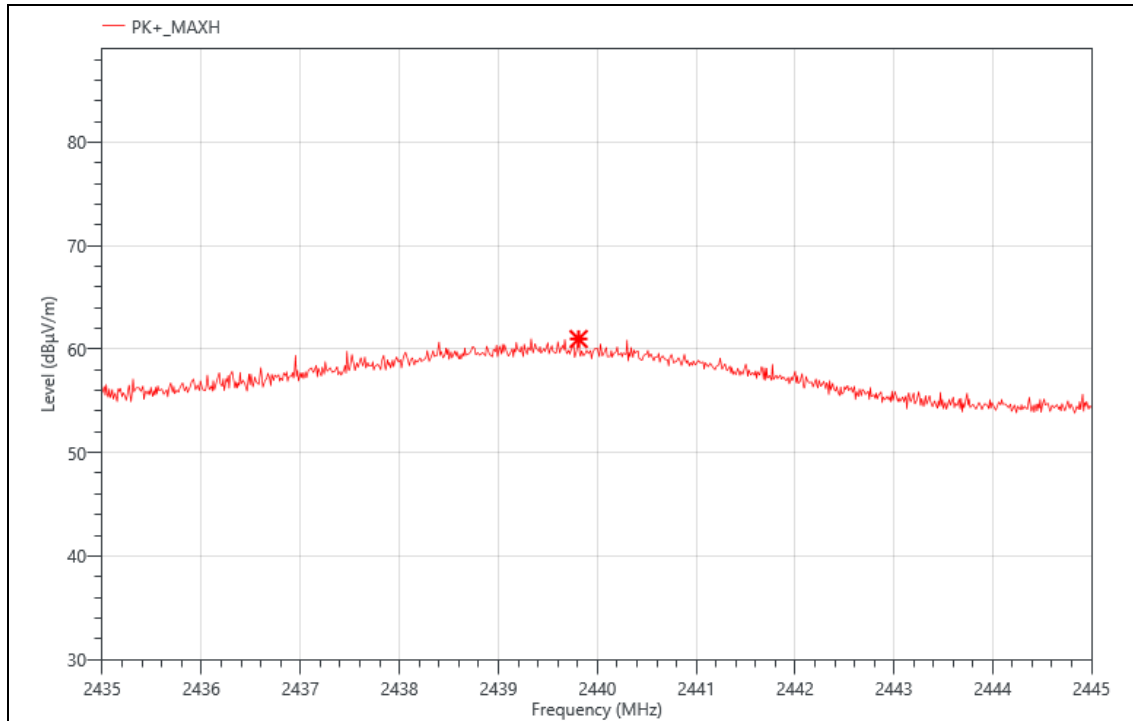
Note:

1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Maximum Field Strength

All modes have been tested and the worst result as bellow:

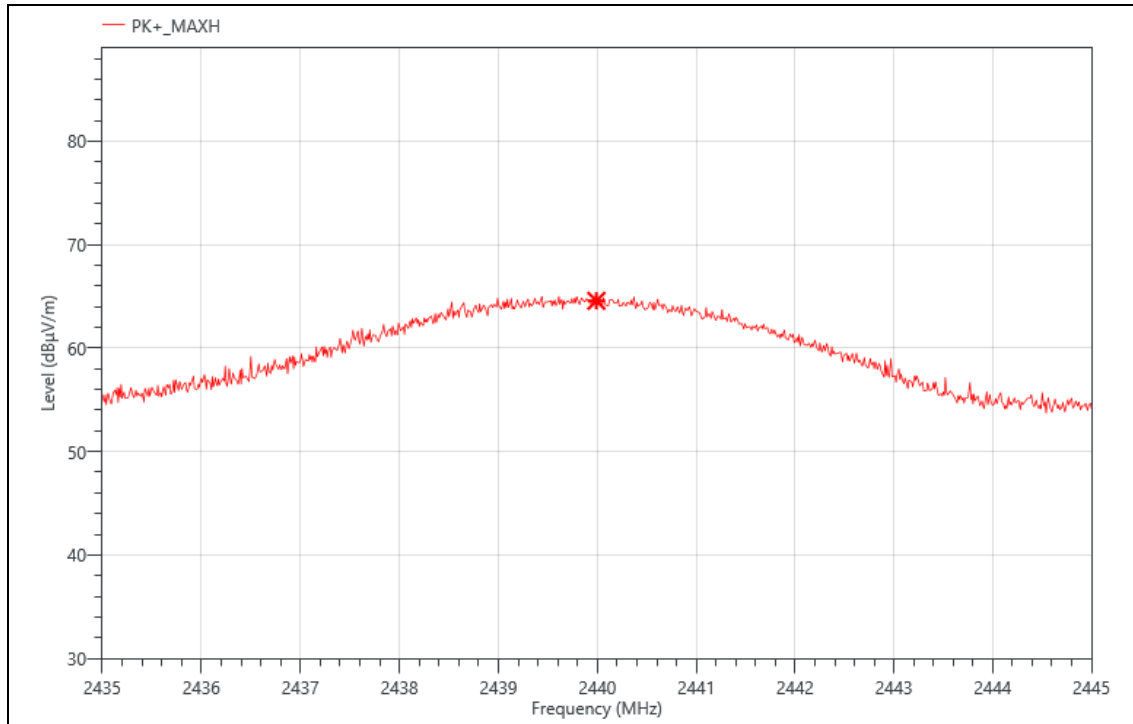
| | |
|--------|-------------------|
| Mode: | 2440 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2439.810 | 37.89 | 23.09 | 60.98 | 114.00 | 53.02 | PK+ | V |

| | |
|--------|-------------------|
| Mode: | 2440 |
| Power: | DC 3.7V |
| TE: | Berny |
| Date | 2025/06/10 |
| T/A/P | 23.6°C/51%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBμV) | Corr. (dB) | Meas. (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2439.990 | 41.49 | 23.09 | 64.58 | 114.00 | 49.42 | PK+ | H |

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

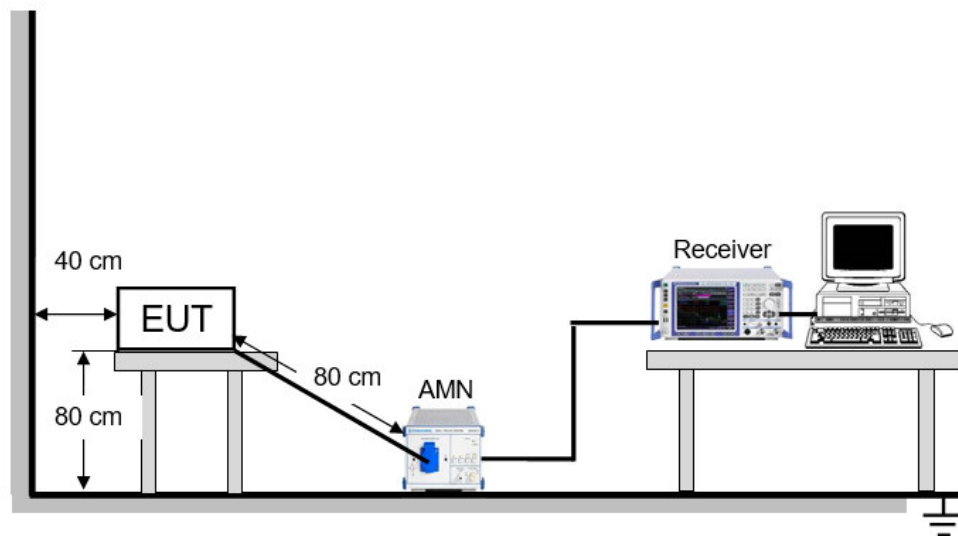
Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

| FREQUENCY (MHz) | Quasi-peak | Average |
|-----------------|------------|-----------|
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * |
| 0.50 -5.0 | 56.00 | 46.00 |
| 5.0 -30.0 | 60.00 | 50.00 |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

TEST SETUP AND PROCEDURE



The following table is the setting of the receiver

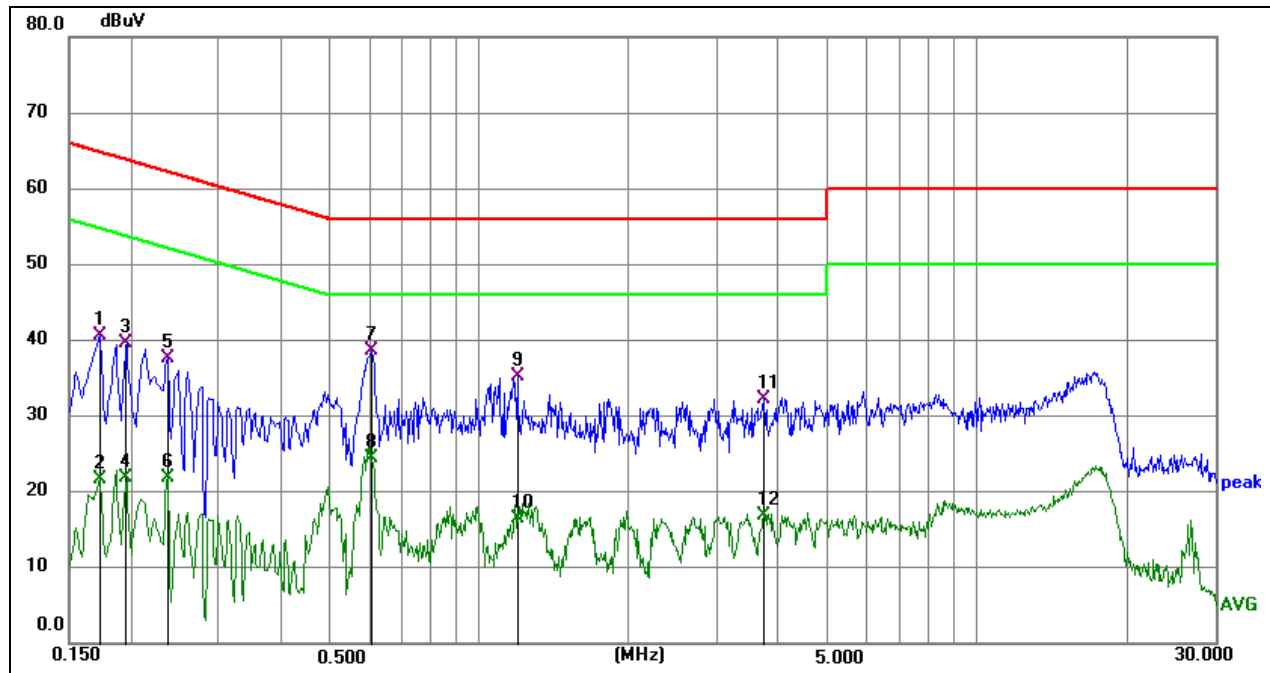
| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

1. The testing follows the guidelines in ANSI C63.10-2013.

2. The EUT was placed on the top of a rotating table 0.8 meters above the horizontal ground plane and being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
3. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
4. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
5. LISN at least 80 cm from nearest part of EUT chassis.
6. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode.
7. The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

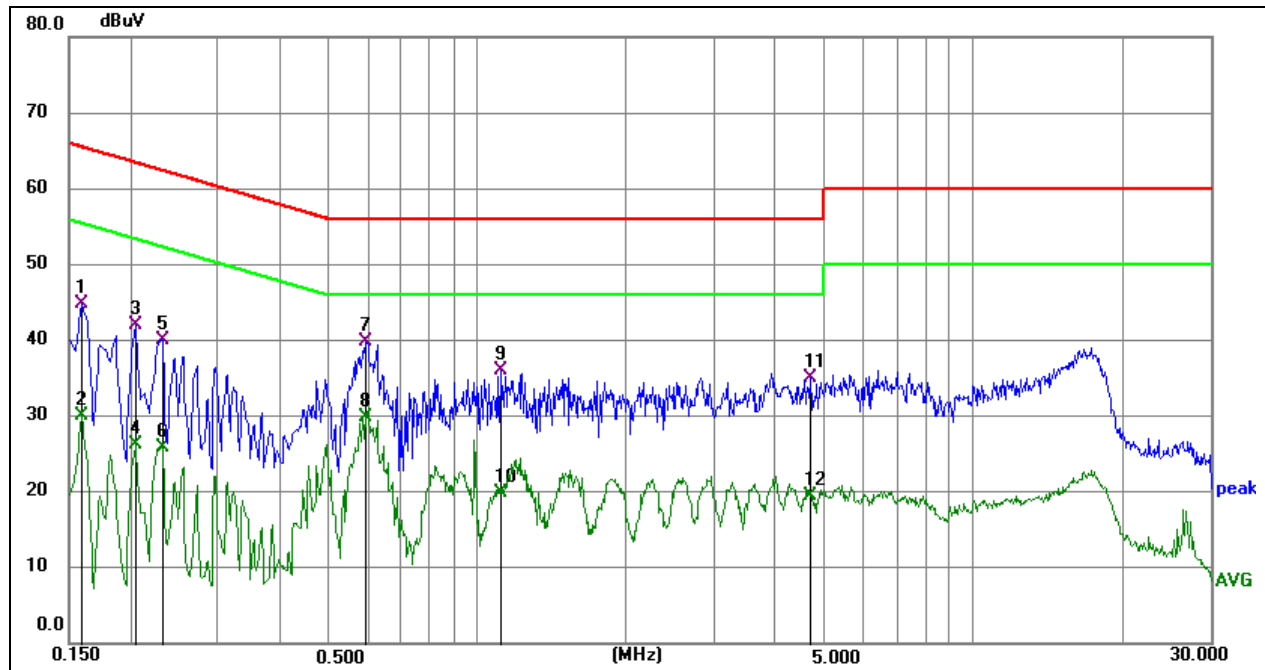
| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 23.2°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa | Test Voltage | |

TEST RESULTS

Phase:N

Mode: 2.4G

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.1725 | 31.00 | 9.67 | 40.67 | 64.84 | -24.17 | QP |
| 2 | 0.1725 | 11.96 | 9.67 | 21.63 | 54.84 | -33.21 | AVG |
| 3 | 0.1949 | 29.93 | 9.68 | 39.61 | 63.83 | -24.22 | QP |
| 4 | 0.1949 | 12.12 | 9.68 | 21.80 | 53.83 | -32.03 | AVG |
| 5 | 0.2355 | 27.86 | 9.68 | 37.54 | 62.25 | -24.71 | QP |
| 6 | 0.2355 | 12.22 | 9.68 | 21.90 | 52.25 | -30.35 | AVG |
| 7 | 0.6090 | 28.83 | 9.69 | 38.52 | 56.00 | -17.48 | QP |
| 8 | 0.6090 | 14.67 | 9.69 | 24.36 | 46.00 | -21.64 | AVG |
| 9 | 1.1940 | 25.50 | 9.71 | 35.21 | 56.00 | -20.79 | QP |
| 10 | 1.1940 | 6.77 | 9.71 | 16.48 | 46.00 | -29.52 | AVG |
| 11 | 3.7230 | 22.48 | 9.75 | 32.23 | 56.00 | -23.77 | QP |
| 12 | 3.7230 | 7.09 | 9.75 | 16.84 | 46.00 | -29.16 | AVG |



Phase:L1

Mode: 2.4G

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|--------------|---------------|--------------|-------------|--------|
| 1 | 0.1590 | 35.03 | 9.77 | 44.80 | 65.52 | -20.72 | QP |
| 2 | 0.1590 | 20.26 | 9.77 | 30.03 | 55.52 | -25.49 | AVG |
| 3 | 0.2040 | 32.20 | 9.78 | 41.98 | 63.45 | -21.47 | QP |
| 4 | 0.2040 | 16.38 | 9.78 | 26.16 | 53.45 | -27.29 | AVG |
| 5 | 0.2310 | 30.31 | 9.78 | 40.09 | 62.41 | -22.32 | QP |
| 6 | 0.2310 | 16.12 | 9.78 | 25.90 | 52.41 | -26.51 | AVG |
| 7 | 0.5955 | 30.01 | 9.79 | 39.80 | 56.00 | -16.20 | QP |
| 8 | 0.5955 | 19.98 | 9.79 | 29.77 | 46.00 | -16.23 | AVG |
| 9 | 1.1130 | 26.18 | 9.81 | 35.99 | 56.00 | -20.01 | QP |
| 10 | 1.1130 | 10.04 | 9.81 | 19.85 | 46.00 | -26.15 | AVG |
| 11 | 4.6815 | 25.20 | 9.87 | 35.07 | 56.00 | -20.93 | QP |
| 12 | 4.6815 | 9.66 | 9.87 | 19.53 | 46.00 | -26.47 | AVG |

10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

| Standard | Requirement |
|----------------------|--|
| RSS-Gen issue 5 6.8. | <p>The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.</p> <p>For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).</p> <p>When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.</p> <p>The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.</p> <p>For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:</p> <p>This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater</p> |

| | |
|--|--|
| | than the maximum gain indicated for any type listed are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type. |
|--|--|

RESULTS

Complies.

END OF REPORT