

RF TEST REPORT

For

Shenzhen Olin Precision Mould Plastic Co.,Ltd

Product Name: Wireless Mouse

Test Model(s): U6P

Report Reference No. : DACE241104020RL001

FCC ID : 2BL20-U6P

Applicant's Name : Shenzhen Olin Precision Mould Plastic Co.,Ltd

Address : East Building 2, Huazhan Technology Park, No.30 ,Tianfu Road, Tianliao Community, Gongming Street, Guangming New District, Shenzhen

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

Address : 102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Test Specification Standard : 47 CFR Part 15.249

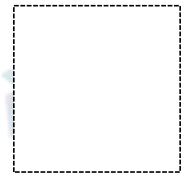
Date of Receipt : November 4, 2024

Date of Test : November 4, 2024 to November 13, 2024

Data of Issue : November 13, 2024

Result : Pass

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Apply for company information

| | | |
|---------------------------------------|---|---|
| Applicant's Name | : | Shenzhen Olin Precision Mould Plastic Co.,Ltd |
| Address | : | East Building 2, Huazhan Technology Park, No.30 ,Tianfu Road, Tianliao Community, Gongming Street, Guangming New District, Shenzhen |
| Product Name | : | Wireless Mouse |
| Test Model(s) | : | U6P |
| Test Specification Standard(s) | : | 47 CFR Part 15.249 |

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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Tom Chen / Manager

Revision History Of Report

| Version | Description | REPORT No. | Issue Date |
|---------|-------------|--------------------|-------------------|
| V1.0 | Original | DACE241104020RL001 | November 13, 2024 |
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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.249: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz, and 24.0-24.25 GHz

1.2 Summary of Test Result

| Item | Standard | Method | Requirement | Result |
|---|--------------------|---------------------------------|--|--------|
| Antenna requirement | 47 CFR Part 15.249 | / | 47 CFR Part 15.203 | Pass |
| Conducted Emission at AC power line | 47 CFR Part 15.249 | ANSI C63.10-2013 section 6.2 | 47 CFR 15.207(a) | Pass |
| Occupied Bandwidth | 47 CFR Part 15.249 | ANSI C63.10-2013, section 6.9.2 | 47 CFR 15.215(c) | Pass |
| Field strength of fundamental | 47 CFR Part 15.249 | ANSI C63.10-2013 section 6.6 | 47 CFR 15.249(a) 47 CFR 15.249(b)(1) | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15.249 | ANSI C63.10-2013 section 6.6.4 | 47 CFR 15.249(d) | Pass |
| Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.249 | ANSI C63.10-2013 section 6.5 | 47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e) | Pass |
| Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.249 | ANSI C63.10-2013 section 6.6 | 47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e) | Pass |

2 GENERAL INFORMATION

2.1 Client Information

Applicant's Name : Shenzhen Olin Precision Mould Plastic Co.,Ltd
Address : East Building 2, Huazhan Technology Park, No.30 ,Tianfu Road, Tianliao Community, Gongming Street, Guangming New District, Shenzhen

Manufacturer : Shenzhen Olin Precision Mould Plastic Co.,Ltd
Address : East Building 2, Huazhan Technology Park, No.30 ,Tianfu Road, Tianliao Community, Gongming Street, Guangming New District, Shenzhen

2.2 Description of Device (EUT)*

| | |
|-----------------------|---------------------------|
| Product Name: | Wireless Mouse |
| Model/Type reference: | U6P |
| Series Model: | N/A |
| Trade Mark: | UINEER |
| Power Supply: | DC3.0V from AAA*2 battery |
| Operation Frequency: | 2402-2480MHz |
| Number of Channels: | 40 |
| Modulation Type: | GFSK |
| Antenna Type: | PCB ANT |
| Antenna Gain: | 1.74dBi |
| Hardware Version: | V4 |
| Software Version: | N/A |

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 11 | 2422MHz | 21 | 2442MHz | 31 | 2462MHz |
| 2 | 2404MHz | 12 | 2424MHz | 22 | 2444MHz | 32 | 2464MHz |
| 3 | 2406MHz | 13 | 2426MHz | 23 | 2446MHz | 33 | 2466MHz |
| 4 | 2408MHz | 14 | 2428MHz | 24 | 2448MHz | 34 | 2468MHz |
| 5 | 2410MHz | 15 | 2430MHz | 25 | 2450MHz | 35 | 2470MHz |
| 6 | 2412MHz | 16 | 2432MHz | 26 | 2452MHz | 36 | 2472MHz |
| 7 | 2414MHz | 17 | 2434MHz | 27 | 2454MHz | 37 | 2474MHz |
| 8 | 2416MHz | 18 | 2436MHz | 28 | 2456MHz | 38 | 2476MHz |
| 9 | 2418MHz | 19 | 2438MHz | 29 | 2458MHz | 39 | 2448MHz |
| 10 | 2420MHz | 20 | 2440MHz | 30 | 2460MHz | 40 | 2480MHz |

2.3 Description of Test Modes

| No | Title | Description |
|-----|-------|--|
| TM1 | 2.4G | Continuous transmission using GFSK modulation signal |

2.4 Description of Support Units

The EUT was tested as an independent device.

2.5 Equipments Used During The Test

| Conducted Emission at AC power line | | | | | |
|-------------------------------------|-----------------|-----------------------------------|----------------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Pulse Limiter | SCHWARZ BECK | VTSD 9561-F Pulse limiter 10dB | 561-G071 | 2023-12-12 | 2024-12-11 |
| 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | / | / |
| Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | 1164.6607K03 -102109-MH | 2024-06-12 | 2025-06-11 |
| L.I.S.N | R&S | ESH3-Z5 | 831.5518.52 | 2023-12-12 | 2024-12-11 |
| L.I.S.N | SCHWARZ BECK | NSLK 8126 | 05055 | 2024-06-14 | 2025-06-13 |
| Pulse Limiter | CYBERTEK | EM5010A | / | 2024-09-27 | 2025-09-26 |
| EMI test software | EZ -EMC | EZ | V1.1.42 | / | / |

| Occupied Bandwidth | | | | | |
|--------------------|--------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| RF Test Software | Tachoy Information | RTS-01 | V1.0.0 | / | / |
| Power divider | MIDEWEST | PWD-2533 | SMA-79 | 2023-05-11 | 2026-05-10 |
| RF Sensor Unit | Tachoy Information | TR1029-2 | 000001 | / | / |
| Signal Generator | Keysight | N5181A | MY48180415 | 2023-12-11 | 2024-12-10 |
| Signal Generator | Keysight | N5182A | MY50143455 | 2023-12-12 | 2024-12-11 |
| Spectrum Analyzer | Keysight | N9020A | MY53420323 | 2023-12-12 | 2024-12-11 |

**Field strength of fundamental
Band edge emissions (Radiated)
Emissions in frequency bands (below 1GHz)
Emissions in frequency bands (above 1GHz)**

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|------------------------|----------------|------------------|----------------------------|------------|--------------|
| EMI Test software | Farad | EZ -EMC | V1.1.42 | / | / |
| Positioning Controller | / | MF-7802 | / | / | / |
| Amplifier(18-40G) | COM-POWER | AH-1840 | 10100008-1 | 2022-04-05 | 2025-04-04 |
| Horn antenna | COM-POWER | AH-1840 (18-40G) | 10100008 | 2023-04-05 | 2025-04-04 |
| Loop antenna | ZHINAN | ZN30900C | ZN30900C | 2024-06-14 | 2026-06-13 |
| Cable(LF)#2 | Schwarzbeck | / | / | 2024-02-19 | 2025-02-18 |
| Cable(LF)#1 | Schwarzbeck | / | / | 2024-02-19 | 2025-02-18 |
| Cable(HF)#2 | Schwarzbeck | AK9515E | 96250 | 2024-03-20 | 2025-03-19 |
| Cable(HF)#1 | Schwarzbeck | SYV-50-3-1 | / | 2024-03-20 | 2025-03-19 |
| Power amplifier(LF) | Schwarzbeck | BBV9743 | 9743-151 | 2024-06-12 | 2025-06-11 |
| Power amplifier(HF) | Schwarzbeck | BBV9718 | 9718-282 | 2024-06-12 | 2025-06-11 |
| Spectrum Analyzer | R&S | FSP30 | 1321.3008K40 -101729-jR | 2024-06-12 | 2025-06-11 |
| Test Receiver | R&S | ESCI 3 | 1166.5950K03 -101431-Jq | 2024-06-13 | 2025-06-12 |
| Horn Antenna | Sunol Sciences | DRH-118 | A091114 | 2023-05-13 | 2025-05-12 |
| Broadband Antenna | Sunol Sciences | JB6 Antenna | A090414 | 2024-09-28 | 2026-09-27 |

2.6 Statement Of The Measurement Uncertainty

| Test Item | Measurement Uncertainty |
|---|-------------------------|
| Conducted Disturbance (0.15~30MHz) | ±3.41dB |
| Occupied Bandwidth | ±3.63% |
| Radiated Emission (Above 1GHz) | ±5.46dB |
| Radiated Emission (Below 1GHz) | ±5.79dB |
| Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. | |

2.7 Identification of Testing Laboratory

| | |
|---------------|--|
| Company Name: | Shenzhen DACE Testing Technology Co., Ltd. |
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |

Identification of the Responsible Testing Location

| | |
|-----------------------------|--|
| Company Name: | Shenzhen DACE Testing Technology Co., Ltd. |
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |
| FCC Registration Number: | 0032847402 |
| Designation Number: | CN1342 |
| Test Firm Registration No.: | 778666 |
| A2LA Certificate Number: | 6270.01 |

2.8 Announcement

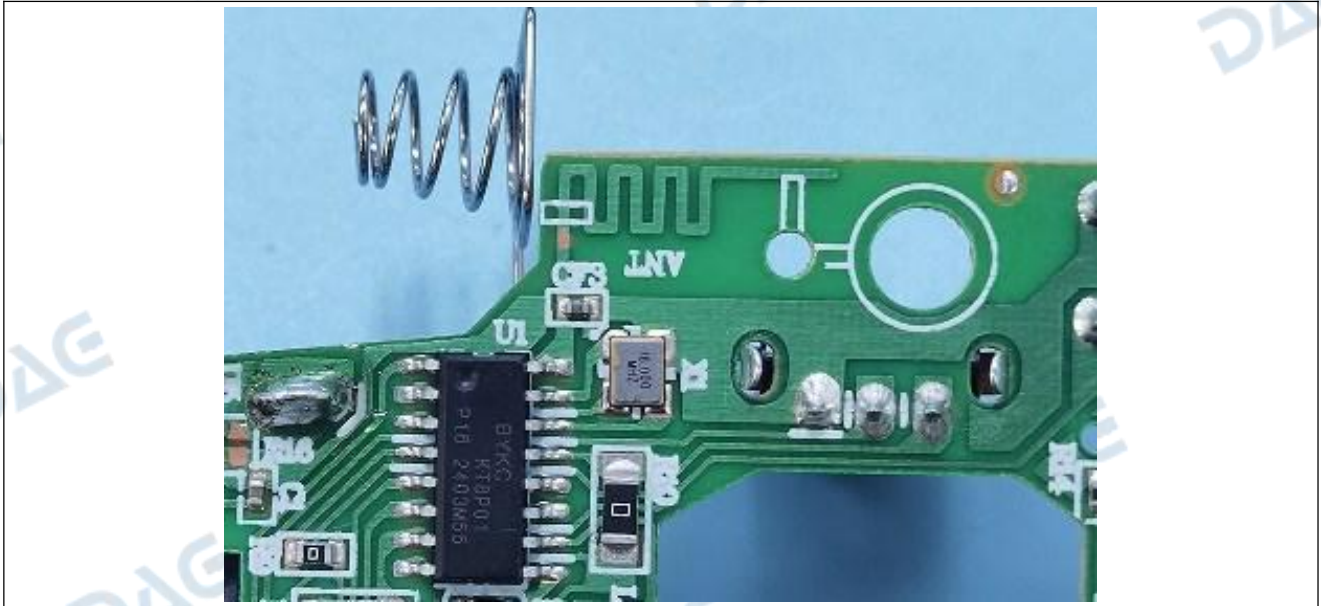
- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) We hereby declare that the laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant(information with "*" provided by applicant). the laboratory is not responsible for the accuracy of the information provided by the client. When the information provided by the customer may affect the effectiveness of the results, the responsibility lies with the customer, and the laboratory does not assume any responsibility.

3 Evaluation Results (Evaluation)

3.1 Antenna requirement

| | |
|-------------------|---|
| Test Requirement: | Refer to 47 CFR Part 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. |
|-------------------|---|

3.1.1 Conclusion:



4 Radio Spectrum Matter Test Results (RF)

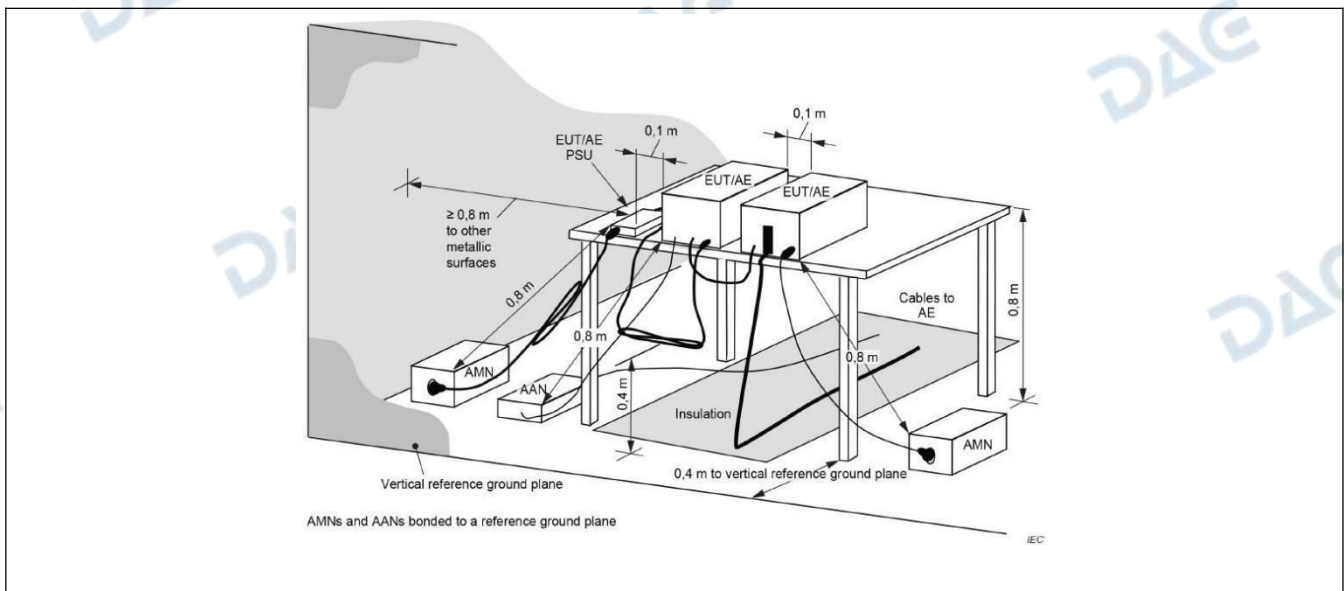
4.1 Conducted Emission at AC power line

| | | | |
|-------------------|--|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). | | |
| Test Limit: | Frequency of emission (MHz) | Conducted limit (dB μ V) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| | *Decreases with the logarithm of the frequency. | | |
| Test Method: | ANSI C63.10-2013 section 6.2 | | |
| Procedure: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | |

4.1.1 E.U.T. Operation:

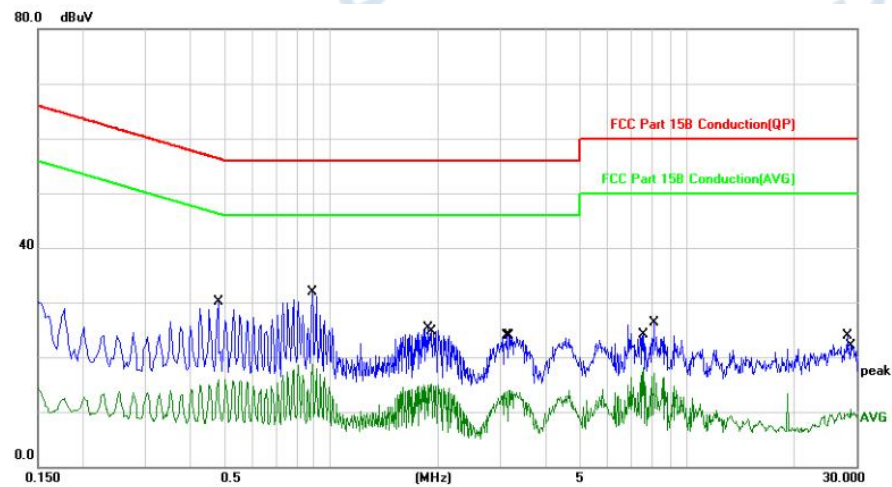
| | | | | | |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: | | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: | 102 kPa |
| Pretest mode: | | TM1 | | | |
| Final test mode: | | TM1 | | | |

4.1.2 Test Setup Diagram:



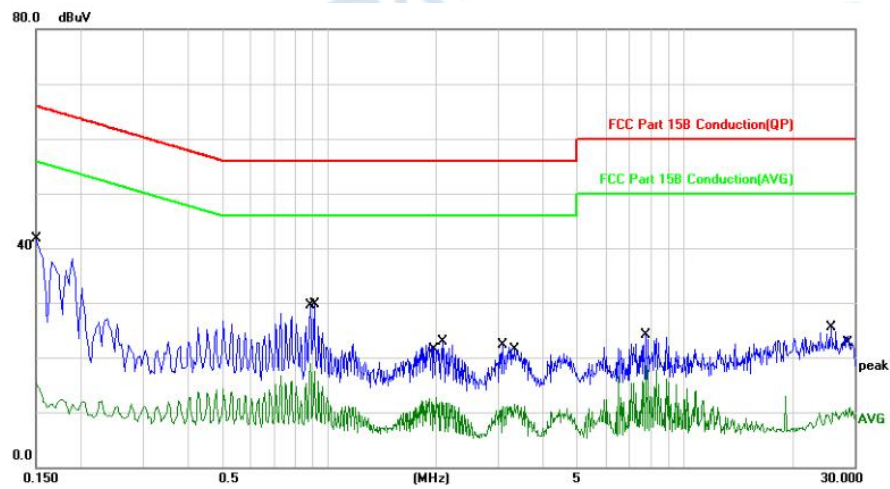
4.1.3 Test Data:

TM1 / Line: Line / Band: 2.4G / BW: 3 / CH: L



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | 0.4820 | 19.97 | 10.08 | 30.05 | 56.30 | -26.25 | QP | |
| 2 | 0.4820 | 5.91 | 10.08 | 15.99 | 46.30 | -30.31 | AVG | |
| 3 * | 0.8860 | 21.85 | 10.08 | 31.93 | 56.00 | -24.07 | QP | |
| 4 | 0.8860 | 8.60 | 10.08 | 18.68 | 46.00 | -27.32 | AVG | |
| 5 | 1.8700 | 15.37 | 10.01 | 25.38 | 56.00 | -30.62 | QP | |
| 6 | 1.9220 | 5.05 | 10.00 | 15.05 | 46.00 | -30.95 | AVG | |
| 7 | 3.1099 | 13.89 | 10.08 | 23.97 | 56.00 | -32.03 | QP | |
| 8 | 3.1619 | 3.91 | 10.08 | 13.99 | 46.00 | -32.01 | AVG | |
| 9 | 7.5260 | 7.88 | 10.25 | 18.13 | 50.00 | -31.87 | AVG | |
| 10 | 8.0980 | 16.02 | 10.28 | 26.30 | 60.00 | -33.70 | QP | |
| 11 | 28.2940 | 12.87 | 11.04 | 23.91 | 60.00 | -36.09 | QP | |
| 12 | 28.7940 | -0.52 | 11.07 | 10.55 | 50.00 | -39.45 | AVG | |

TM1 / Line: Neutral / Band: 2.4G / BW: 3 / CH: L



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | * | 0.1500 | 31.51 | 10.10 | 41.61 | 65.99 | -24.38 | QP | |
| 2 | | 0.1500 | 5.20 | 10.10 | 15.30 | 55.99 | -40.69 | AVG | |
| 3 | | 0.8860 | 8.88 | 10.08 | 18.96 | 46.00 | -27.04 | AVG | |
| 4 | | 0.9100 | 19.62 | 10.08 | 29.70 | 56.00 | -26.30 | QP | |
| 5 | | 1.9980 | 2.79 | 9.99 | 12.78 | 46.00 | -33.22 | AVG | |
| 6 | | 2.0980 | 12.90 | 10.01 | 22.91 | 56.00 | -33.09 | QP | |
| 7 | | 3.0860 | 12.19 | 10.08 | 22.27 | 56.00 | -33.73 | QP | |
| 8 | | 3.3380 | 1.33 | 10.10 | 11.43 | 46.00 | -34.57 | AVG | |
| 9 | | 7.7700 | 13.80 | 10.27 | 24.07 | 60.00 | -35.93 | QP | |
| 10 | | 7.7700 | 8.19 | 10.27 | 18.46 | 50.00 | -31.54 | AVG | |
| 11 | | 25.7420 | 14.60 | 10.87 | 25.47 | 60.00 | -34.53 | QP | |
| 12 | | 29.1340 | -0.21 | 11.09 | 10.88 | 50.00 | -39.12 | AVG | |

4.2 Occupied Bandwidth

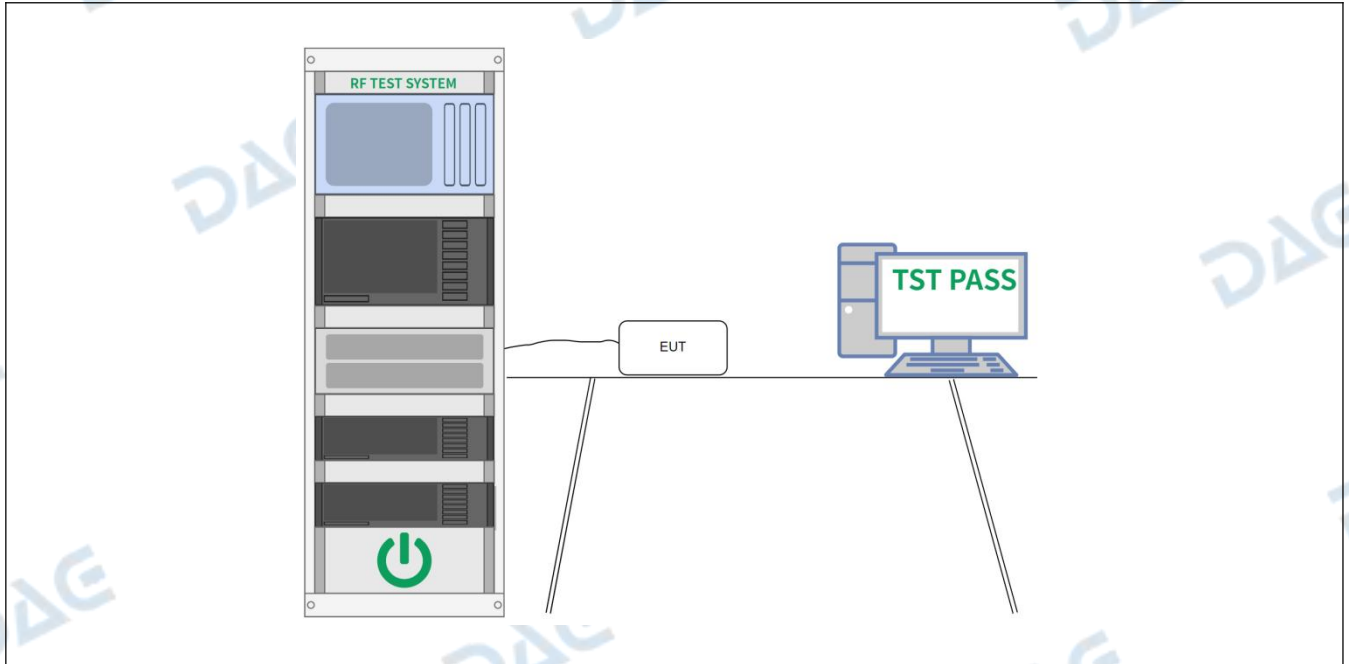
| | |
|-------------------|--|
| Test Requirement: | 47 CFR 15.215(c) |
| Test Limit: | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |
| Test Method: | ANSI C63.10-2013, section 6.9.2 |
| Procedure: | <p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p> |

4.2.1 E.U.T. Operation:

| | | | | | |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: | | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: | 102 kPa |
| Pretest mode: | TM1 | | | | |

Final test mode: TM1

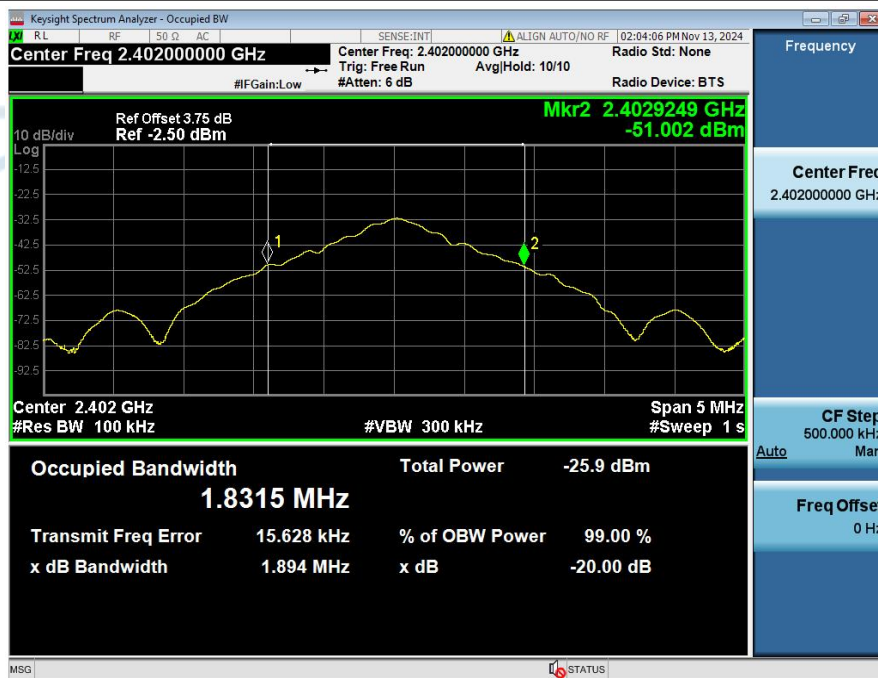
4.2.2 Test Setup Diagram:



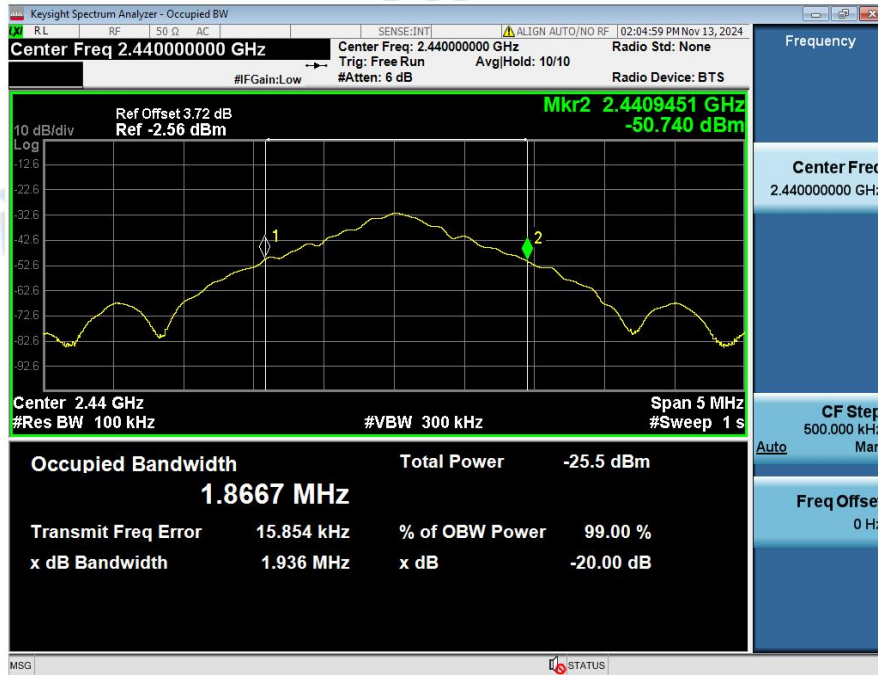
4.2.3 Test Data:

| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) |
|-----------|---------|------------|-----------------|---------------|
| NVNT | ANT1 | GFSK | 2402.00 | 1.894 |
| NVNT | ANT1 | GFSK | 2440.00 | 1.936 |
| NVNT | ANT1 | GFSK | 2480.00 | 1.995 |

Occupied_Channel_Bandwidth_NVNT_ANT1_1-DH5_2402



Occupied_Channel_Bandwidth_NVNT_ANT1_1-DH5_2440



Occupied_Channel_Bandwidth_NVNT_ANT1_1-DH5_2480



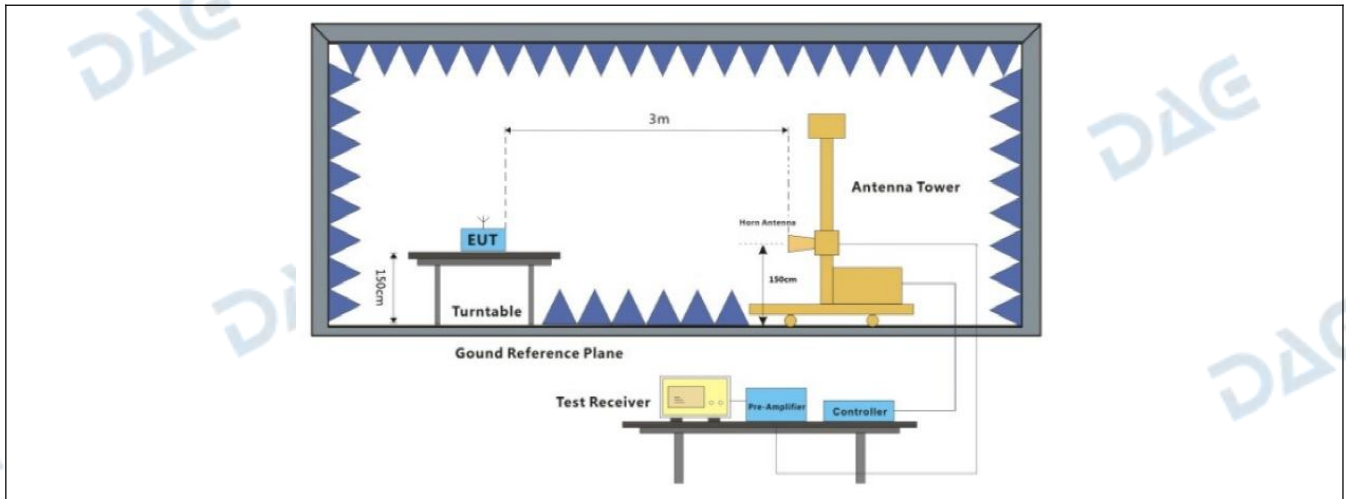
4.3 Field strength of fundamental

| | | | |
|-------------------|--|--|--|
| Test Requirement: | Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following: | | |
| | Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
| | 902-928 MHz | 50 | 500 |
| | 2400-2483.5 MHz | 50 | 500 |
| | 5725-5875 MHz | 50 | 500 |
| | 24.0-24.25 GHz | 250 | 2500 |
| | The field strength of emissions in this band shall not exceed 2500 millivolts/meter. | | |
| Test Method: | ANSI C63.10-2013 section 6.6 | | |
| Procedure: | ANSI C63.10-2013 section 6.6 | | |

4.3.1 E.U.T. Operation:

| | | | | | |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: | | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: | 102 kPa |
| Pretest mode: | TM1 | | | | |
| Final test mode: | TM1 | | | | |

4.3.2 Test Setup Diagram:



4.3.3 Test Data:

| Frequency (MHz) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dBuV/m) | Detector (PK/AV) | Polarization (H/V) |
|-----------------|-------------------------|-----------------|-----------------|------------------|--------------------|
| 2402 | 78.26 | 114.00 | -35.74 | PK | H |
| 2402 | 78.64 | 94.00 | -15.36 | PK | V |
| 2440 | 78.57 | 114.00 | -35.43 | PK | H |
| 2440 | 78.33 | 94.00 | -15.67 | PK | V |
| 2480 | 77.98 | 114.00 | -36.02 | PK | H |
| 2480 | 78.60 | 94.00 | -15.40 | PK | V |

Note: Margin = Emission Level – Limit; For fundamental frequency, RBW>20dB BW, VBW>=3XRBW

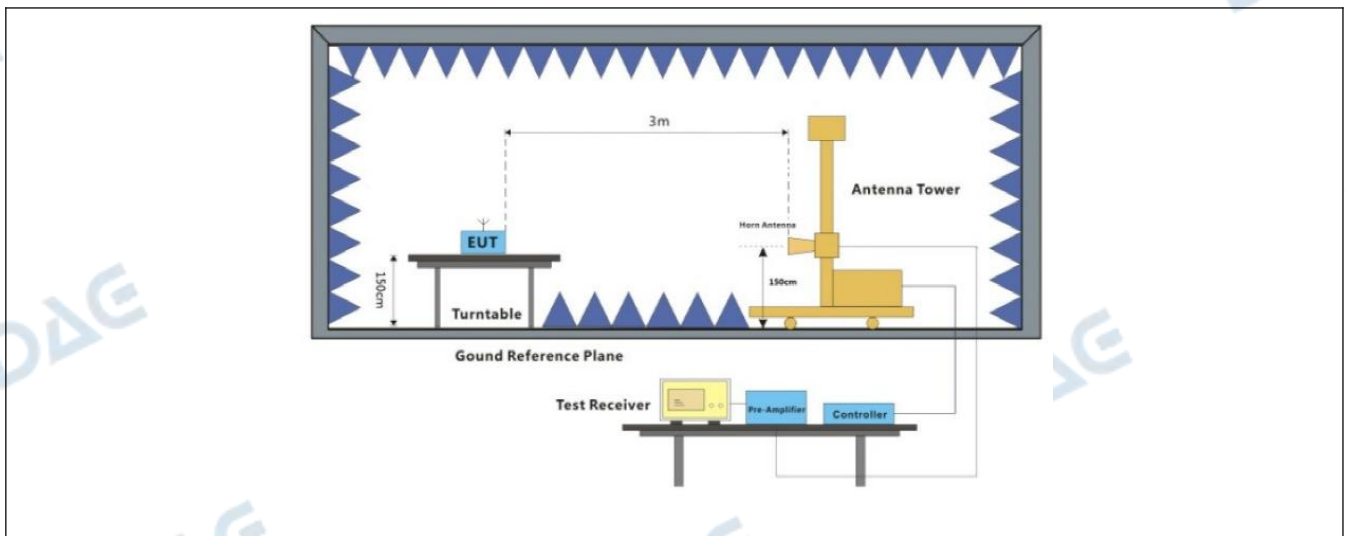
4.4 Band edge emissions (Radiated)

| | | | |
|-------------------|---|-----------------------------------|-------------------------------|
| Test Requirement: | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. | | |
| Test Limit: | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation. | | |
| | 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 |
| | 30-88 | 100 ** | 3 |
| | 88-216 | 150 ** | 3 |
| | 216-960 | 200 ** | 3 |
| | Above 960 | 500 | 3 |
| | <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table 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.</p> | | |
| Test Method: | ANSI C63.10-2013 section 6.6.4 | | |
| Procedure: | ANSI C63.10-2013 section 6.6.4 | | |

4.4.1 E.U.T. Operation:

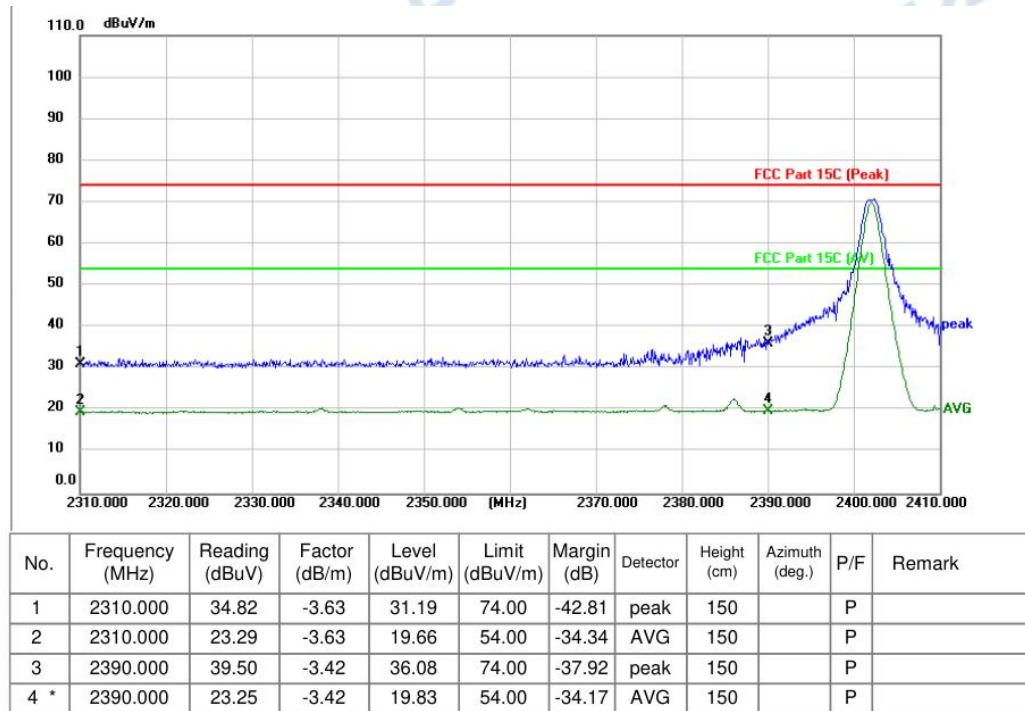
| | | | | |
|------------------------|---------|-----------|------|-------------------------------|
| Operating Environment: | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: 102 kPa |
| Pretest mode: | TM1 | | | |
| Final test mode: | TM1 | | | |

4.4.2 Test Setup Diagram:

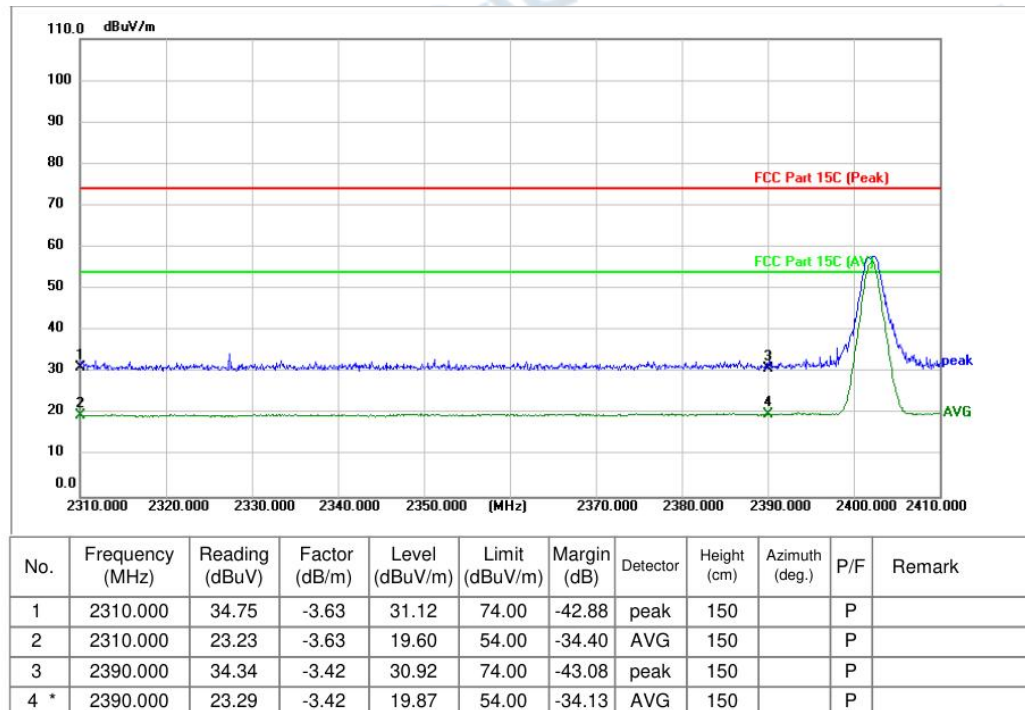


4.4.3 Test Data:

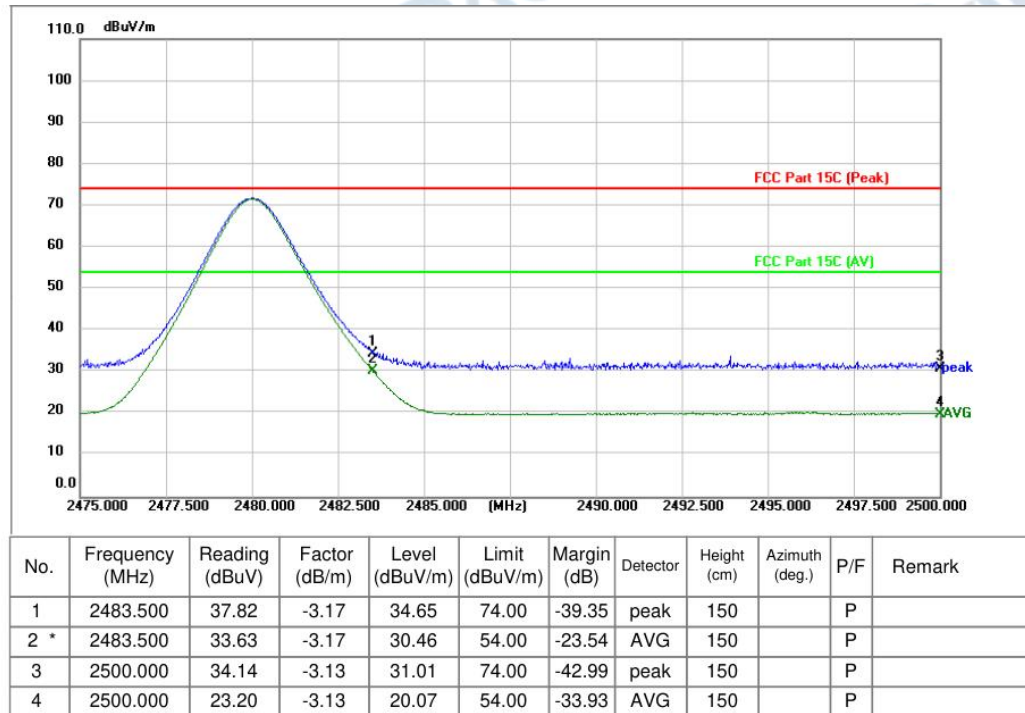
TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: L



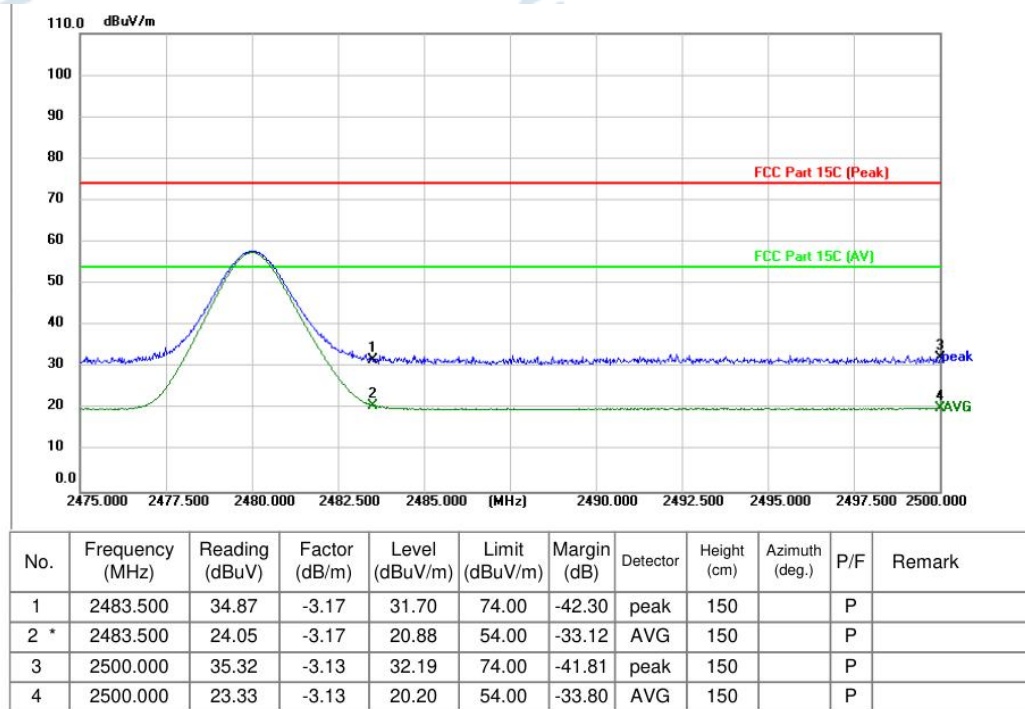
TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: L



TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: H



TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: H



1. Margin = Measurement Level - Limit ; Measurement Level=Test receiver reading + correction factor
2. The test software will only record the worst test angle and height, and only the worst case will be recorded in the test report.

4.5 Emissions in frequency bands (below 1GHz)

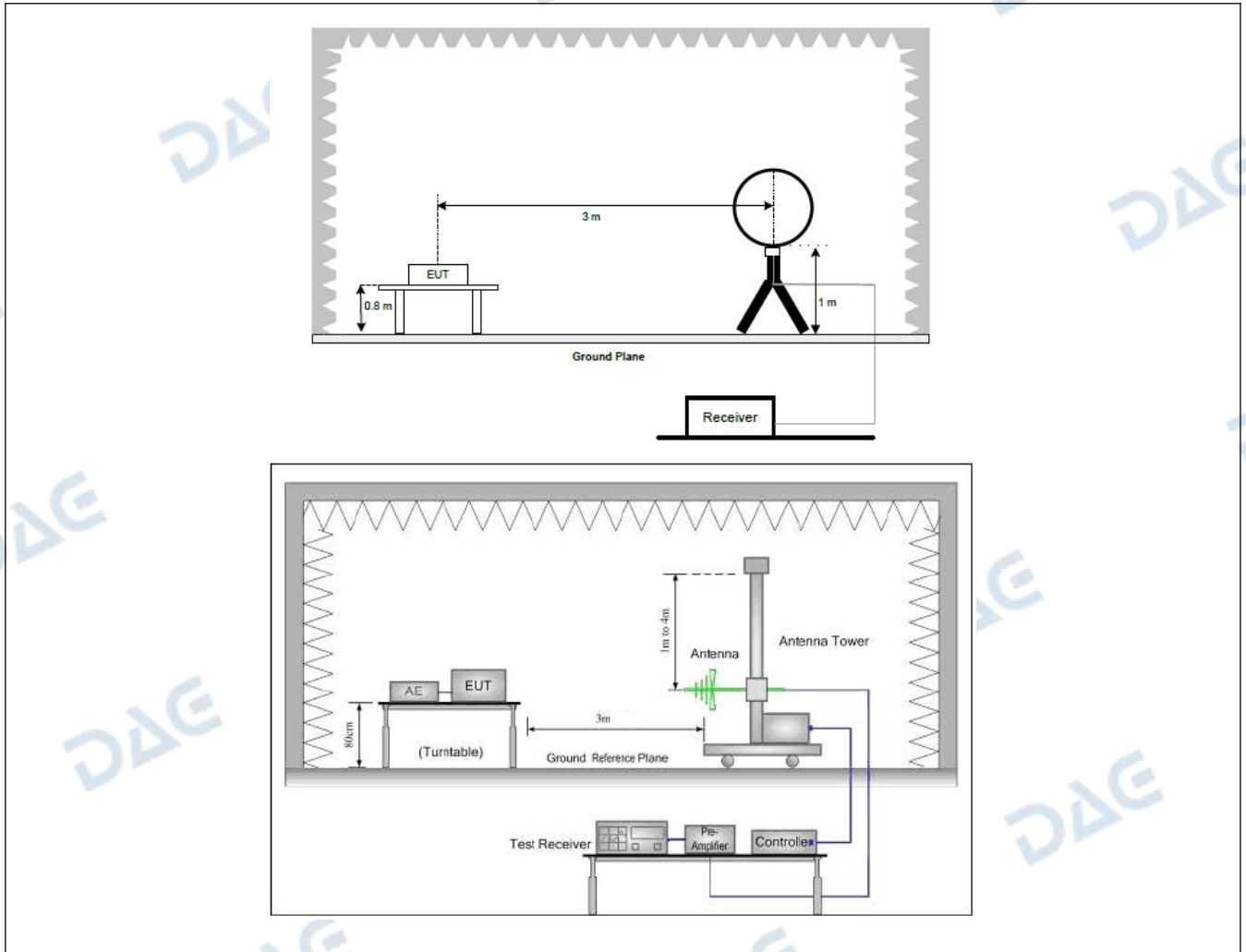
| Test Requirement: | 47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|-----------------------|--|--|-------------|----|-----|-----------------|----|-----|---------------|----|-----|----------------|-----|------|-----------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Test Limit: | <p>Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:</p> <table border="1"> <thead> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> </thead> <tbody> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </tbody> </table> <p>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.</p> <table border="1"> <thead> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> </thead> <tbody> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </tbody> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> | | Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | 902-928 MHz | 50 | 500 | 2400-2483.5 MHz | 50 | 500 | 5725-5875 MHz | 50 | 500 | 24.0-24.25 GHz | 250 | 2500 | 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 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 902-928 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2400-2483.5 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5725-5875 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.0-24.25 GHz | 250 | 2500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30-88 | 100 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-216 | 150 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 216-960 | 200 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Above 960 | 500 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Method: | ANSI C63.10-2013 section 6.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Procedure: | ANSI C63.10-2013 section 6.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

4.5.1 E.U.T. Operation:

| | | | | | |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: | | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: | 102 kPa |
| Pretest mode: | | TM1 | | | |

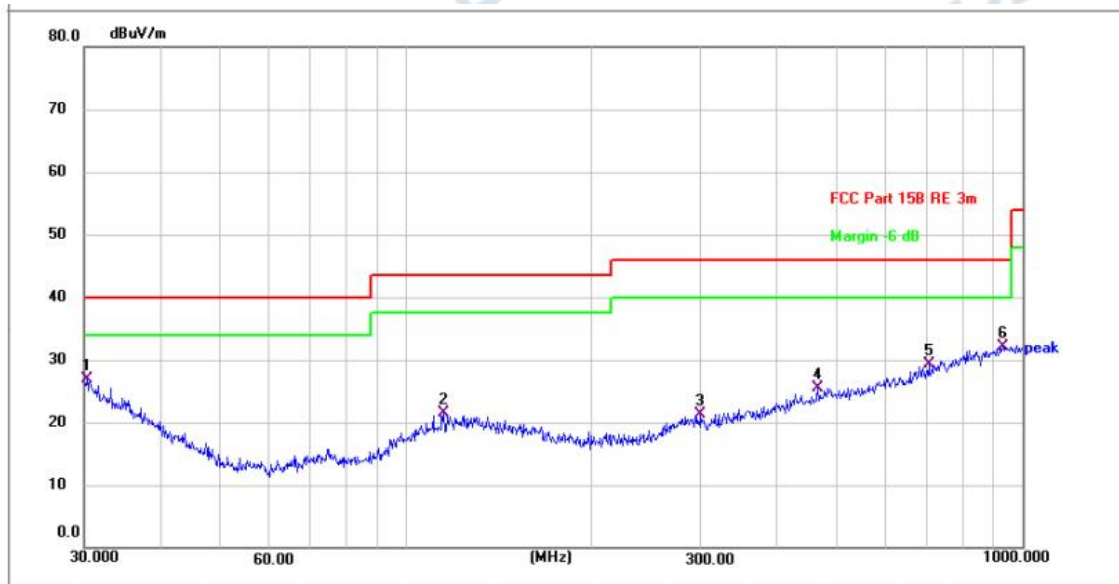
| | |
|------------------|-----|
| Final test mode: | TM1 |
|------------------|-----|

4.5.2 Test Setup Diagram:



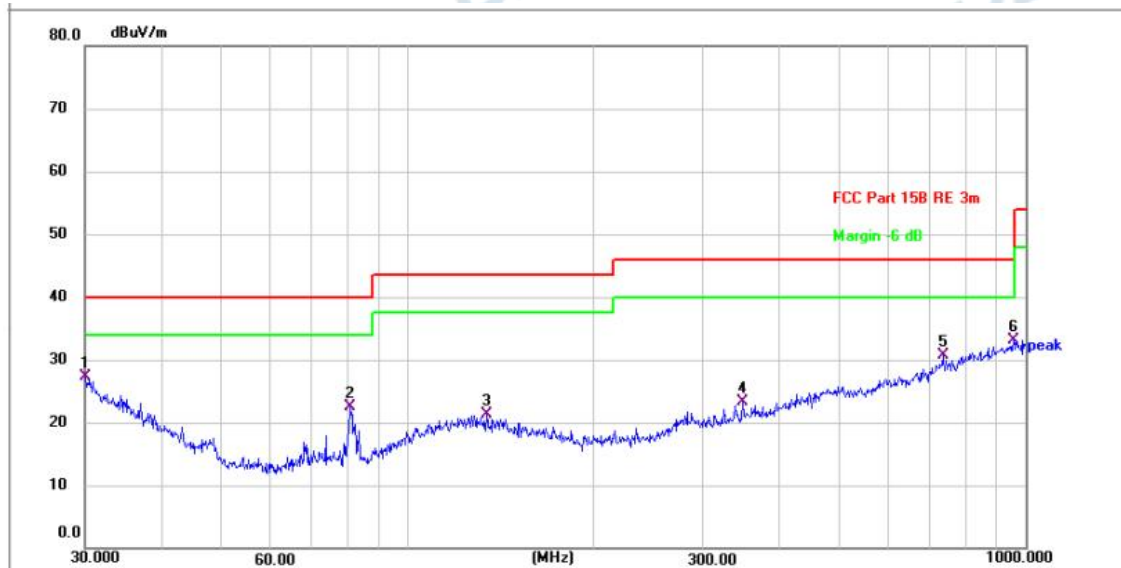
4.5.3 Test Data:

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 30.3173 | 26.29 | 0.62 | 26.91 | 40.00 | -13.09 | QP | 100 | | P | |
| 2 | 114.9169 | 27.21 | -5.79 | 21.42 | 43.50 | -22.08 | QP | 100 | | P | |
| 3 | 300.3672 | 27.02 | -5.74 | 21.28 | 46.00 | -24.72 | QP | 100 | | P | |
| 4 | 465.5994 | 27.20 | -1.71 | 25.49 | 46.00 | -20.51 | QP | 100 | | P | |
| 5 | 704.2261 | 27.13 | 2.08 | 29.21 | 46.00 | -16.79 | QP | 100 | | P | |
| 6 | 929.0082 | 26.28 | 5.81 | 32.09 | 46.00 | -13.91 | QP | 100 | | P | |

TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 * | 30.1054 | 26.46 | 0.77 | 27.23 | 40.00 | -12.77 | QP | 100 | | P | |
| 2 | 80.6442 | 34.45 | -11.86 | 22.59 | 40.00 | -17.41 | QP | 100 | | P | |
| 3 | 134.0882 | 27.01 | -5.67 | 21.34 | 43.50 | -22.16 | QP | 100 | | P | |
| 4 | 348.0274 | 27.88 | -4.66 | 23.22 | 46.00 | -22.78 | QP | 100 | | P | |
| 5 | 734.4913 | 27.97 | 2.78 | 30.75 | 46.00 | -15.25 | QP | 100 | | P | |
| 6 | 955.4381 | 27.37 | 5.71 | 33.08 | 46.00 | -12.92 | QP | 100 | | P | |

4.6 Emissions in frequency bands (above 1GHz)

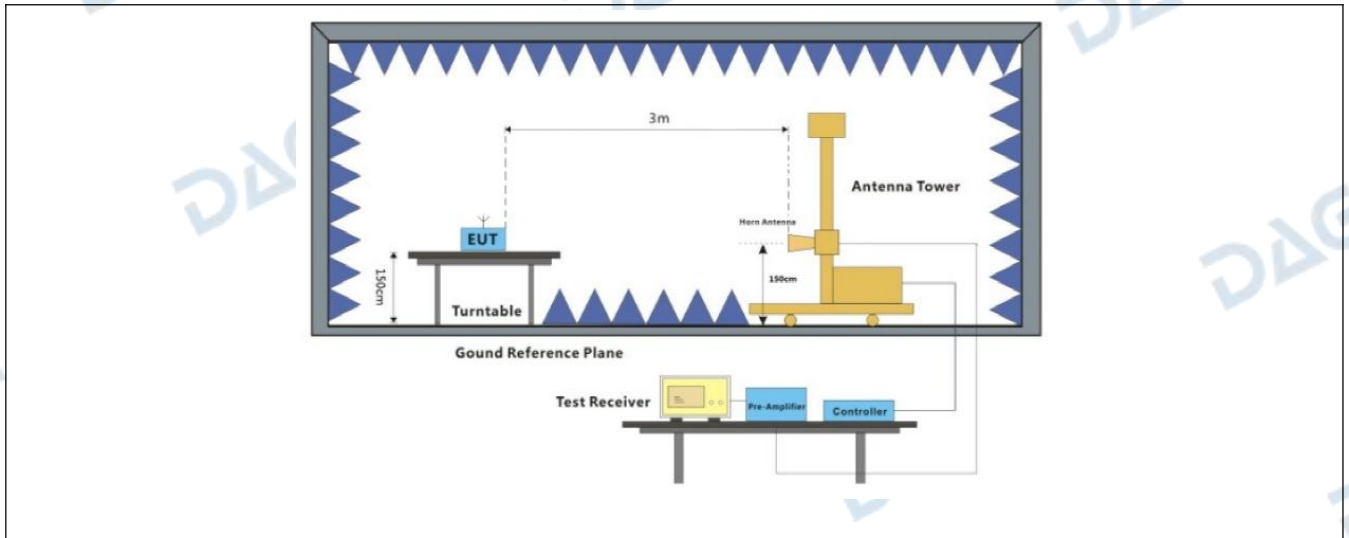
| Test Requirement: | 47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|--|-----------------------|--|--|-------------|----|-----|-----------------|----|-----|---------------|----|-----|----------------|-----|------|-----------------|-----------------------------------|-------------------------------|-------------|-------------|-----|-------------|--------------|----|------------|----|----|-------|--------|---|--------|--------|---|---------|--------|---|-----------|-----|---|
| Test Limit: | <p>Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:</p> <table> <tr> <th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr> <tr> <td>902-928 MHz</td><td>50</td><td>500</td></tr> <tr> <td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr> <tr> <td>5725-5875 MHz</td><td>50</td><td>500</td></tr> <tr> <td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr> </table> <p>Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.</p> <table> <tr> <th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr> <tr> <td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr> <tr> <td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr> <tr> <td>1.705-30.0</td><td>30</td><td>30</td></tr> <tr> <td>30-88</td><td>100 **</td><td>3</td></tr> <tr> <td>88-216</td><td>150 **</td><td>3</td></tr> <tr> <td>216-960</td><td>200 **</td><td>3</td></tr> <tr> <td>Above 960</td><td>500</td><td>3</td></tr> </table> <p>** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.</p> <p>In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table 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. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.</p> | | Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | 902-928 MHz | 50 | 500 | 2400-2483.5 MHz | 50 | 500 | 5725-5875 MHz | 50 | 500 | 24.0-24.25 GHz | 250 | 2500 | 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 | 30-88 | 100 ** | 3 | 88-216 | 150 ** | 3 | 216-960 | 200 ** | 3 | Above 960 | 500 | 3 |
| Fundamental frequency | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 902-928 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2400-2483.5 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5725-5875 MHz | 50 | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24.0-24.25 GHz | 250 | 2500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30-88 | 100 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88-216 | 150 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 216-960 | 200 ** | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Above 960 | 500 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Method: | ANSI C63.10-2013 section 6.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Procedure: | ANSI C63.10-2013 section 6.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

4.6.1 E.U.T. Operation:

| | | | | | |
|------------------------|---------|-----------|------|-----------------------|---------|
| Operating Environment: | | | | | |
| Temperature: | 22.5 °C | Humidity: | 53 % | Atmospheric Pressure: | 102 kPa |
| Pretest mode: | TM1 | | | | |

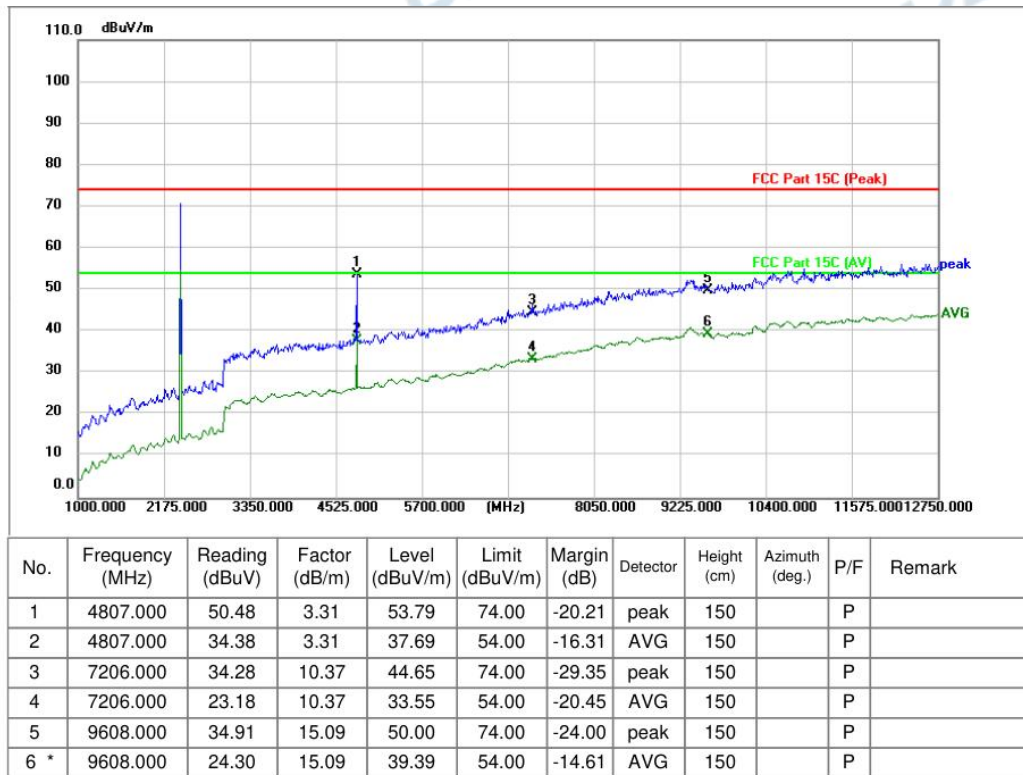
| | |
|------------------|-----|
| Final test mode: | TM1 |
|------------------|-----|

4.6.2 Test Setup Diagram:

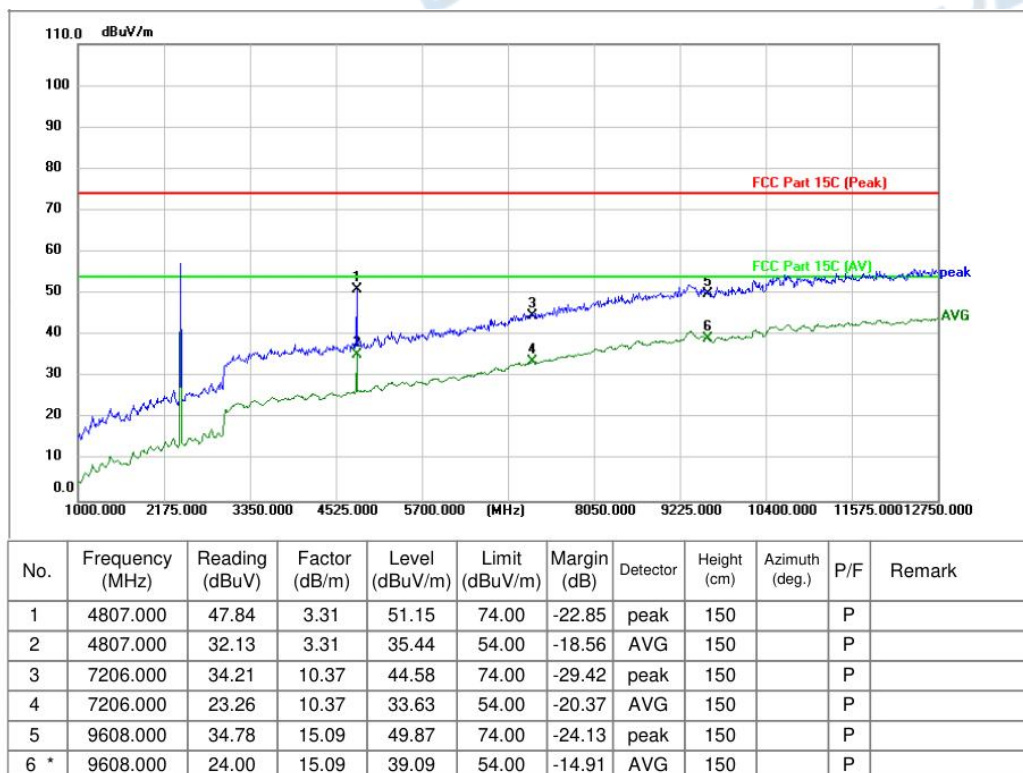


4.6.3 Test Data:

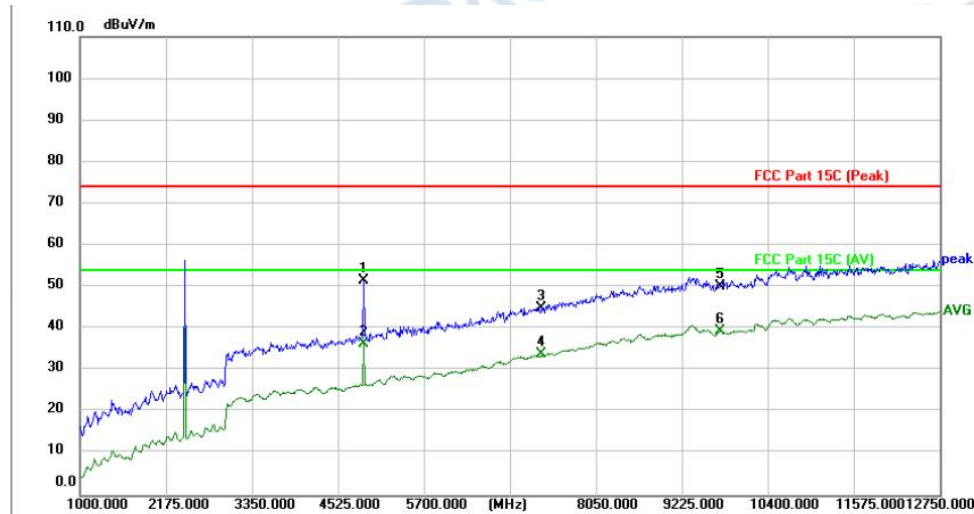
TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: L



TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: L

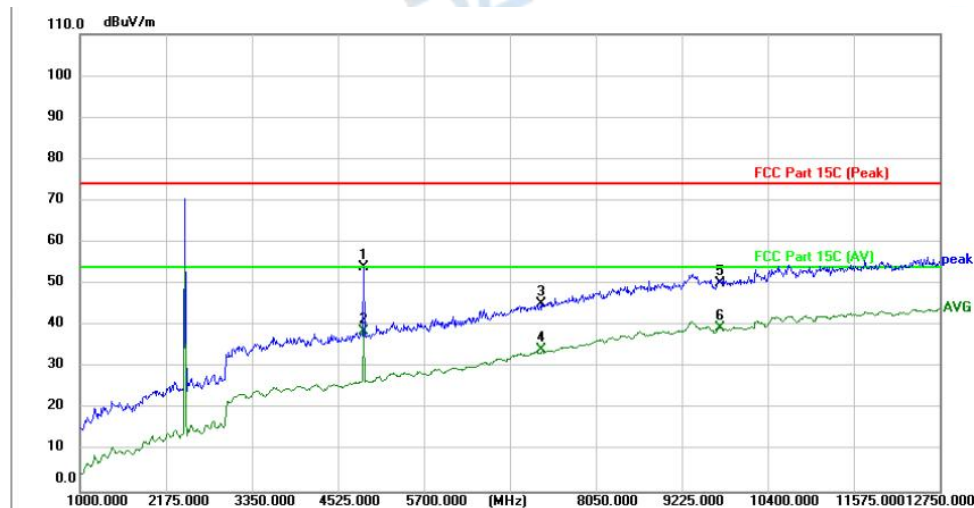


TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: M



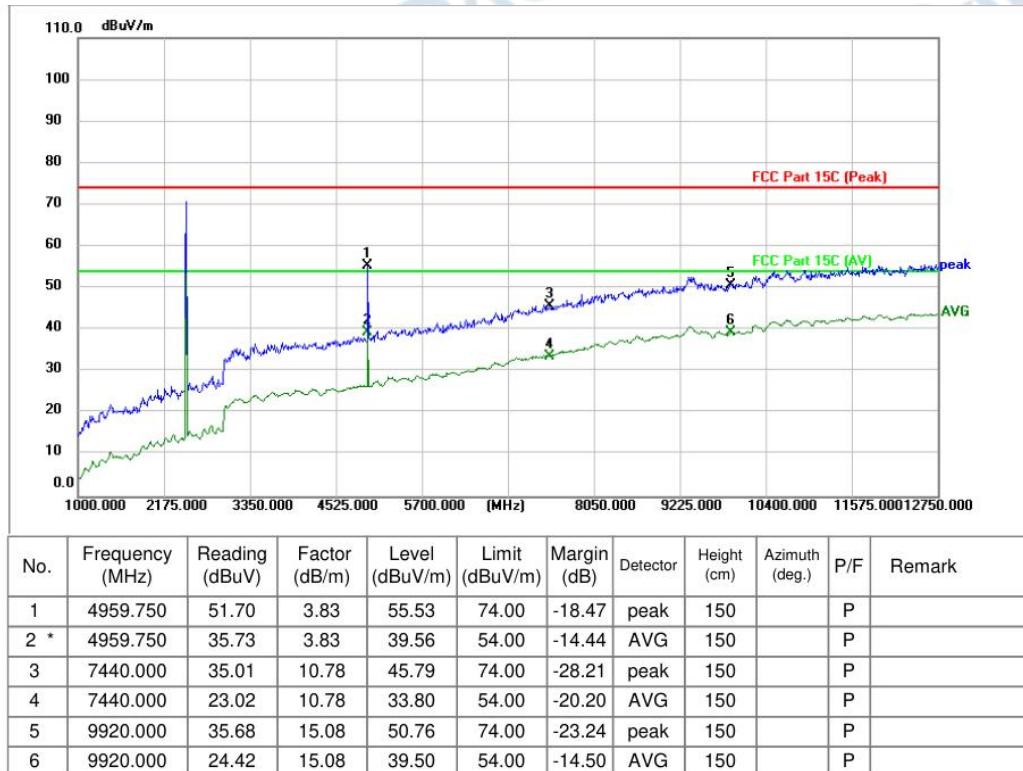
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 4877.500 | 47.92 | 3.55 | 51.47 | 74.00 | -22.53 | peak | 150 | | P | |
| 2 | 4877.500 | 32.80 | 3.55 | 36.35 | 54.00 | -17.65 | AVG | 150 | | P | |
| 3 | 7320.000 | 34.36 | 10.57 | 44.93 | 74.00 | -29.07 | peak | 150 | | P | |
| 4 | 7320.000 | 23.39 | 10.57 | 33.96 | 54.00 | -20.04 | AVG | 150 | | P | |
| 5 | 9760.000 | 35.19 | 15.09 | 50.28 | 74.00 | -23.72 | peak | 150 | | P | |
| 6 * | 9760.000 | 24.27 | 15.09 | 39.36 | 54.00 | -14.64 | AVG | 150 | | P | |

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: M

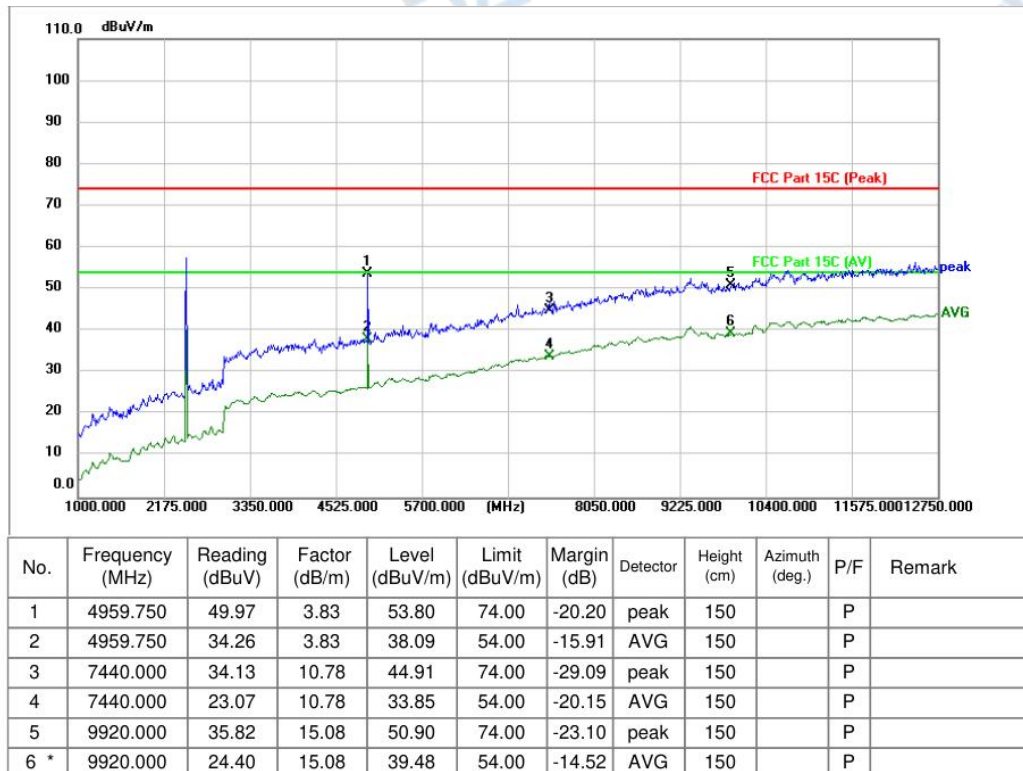


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-------------|----------------|-----|--------|
| 1 | 4877.500 | 50.40 | 3.55 | 53.95 | 74.00 | -20.05 | peak | 150 | | P | |
| 2 | 4877.500 | 35.01 | 3.55 | 38.56 | 54.00 | -15.44 | AVG | 150 | | P | |
| 3 | 7320.000 | 34.69 | 10.57 | 45.26 | 74.00 | -28.74 | peak | 150 | | P | |
| 4 | 7320.000 | 23.79 | 10.57 | 34.36 | 54.00 | -19.64 | AVG | 150 | | P | |
| 5 | 9760.000 | 34.98 | 15.09 | 50.07 | 74.00 | -23.93 | peak | 150 | | P | |
| 6 * | 9760.000 | 24.36 | 15.09 | 39.45 | 54.00 | -14.55 | AVG | 150 | | P | |

TM1 / Polarization: Horizontal / Band: 2.4G / BW: 3 / CH: H

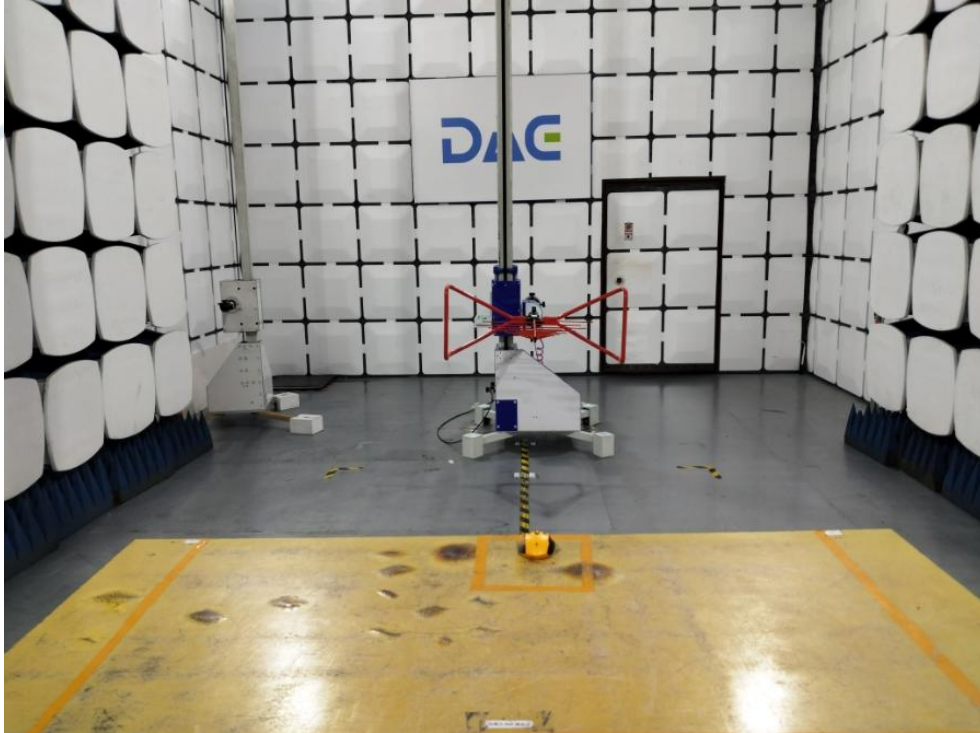


TM1 / Polarization: Vertical / Band: 2.4G / BW: 3 / CH: H



5 TEST SETUP PHOTOS

Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



Conducted Emission at AC power line

6 PHOTOS OF THE EUT

External



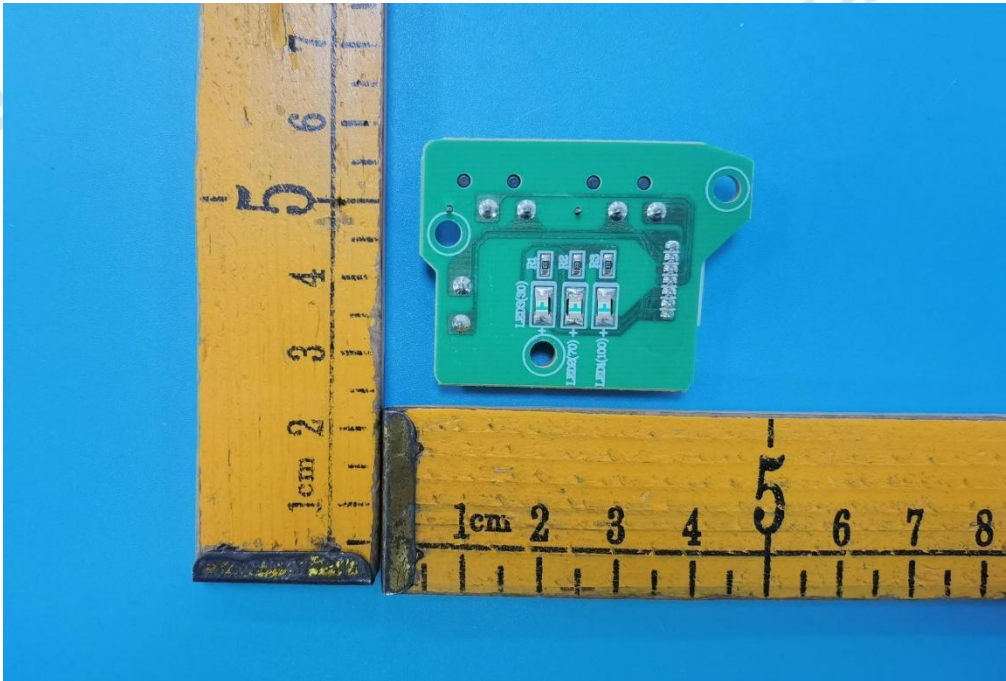
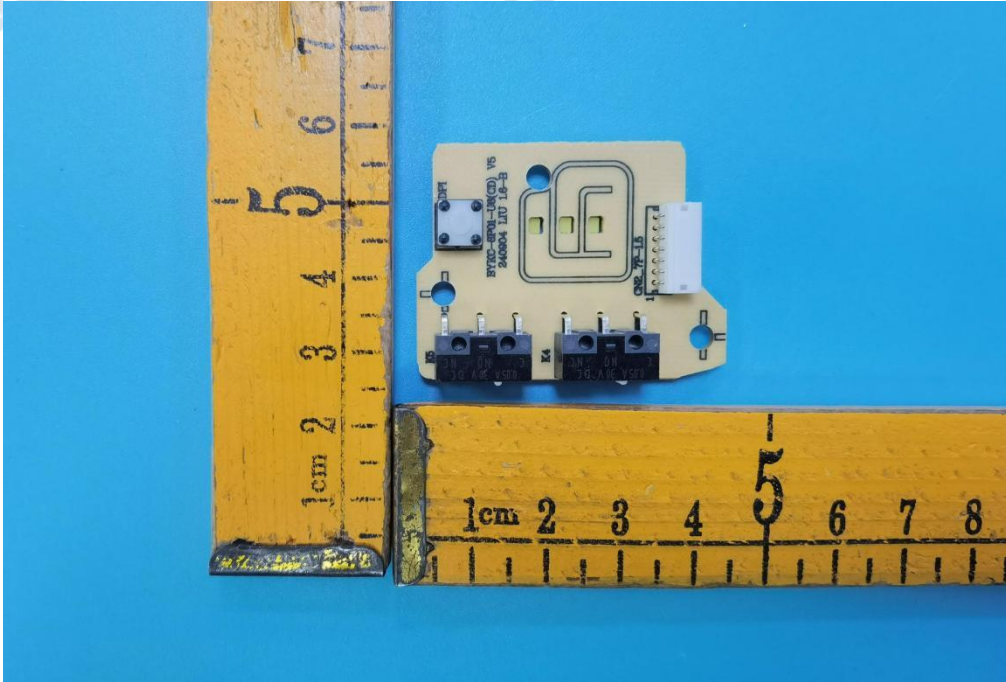


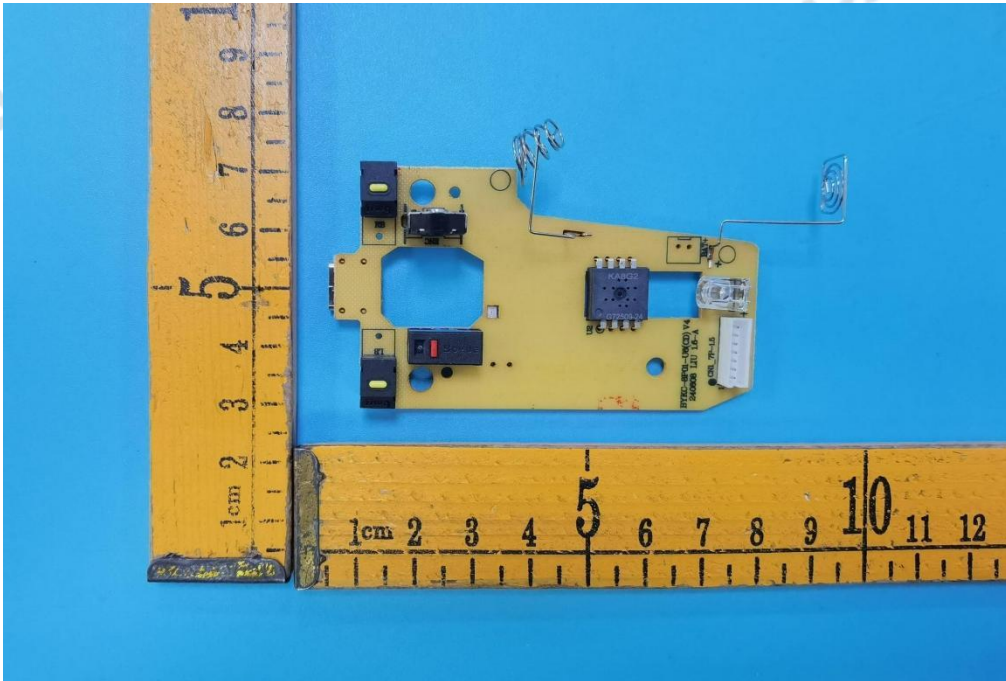


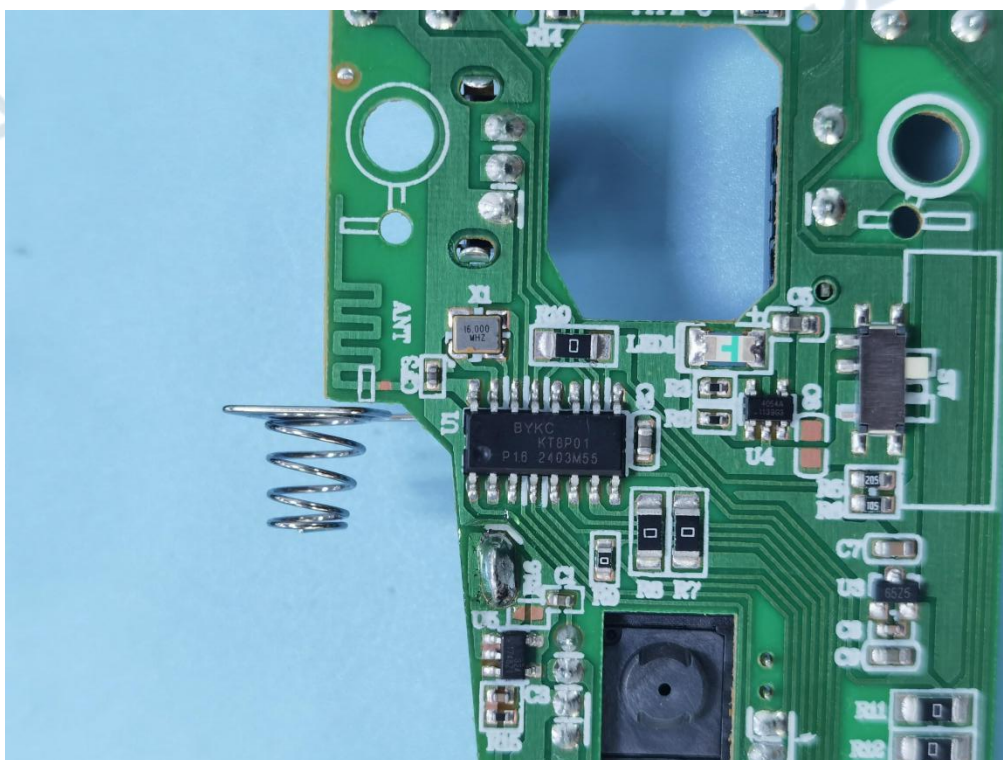
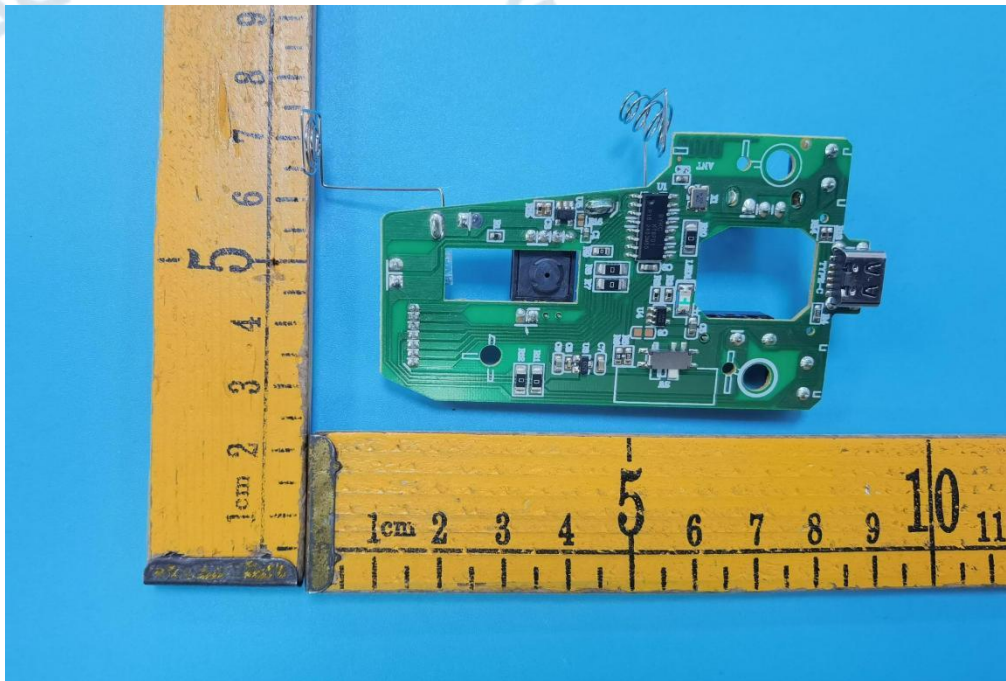


Internal









***** End of Report *****