

**CFR 47 FCC PART 15 SUBPART E
ISED RSS-247 ISSUE 3 (U-NII)**

TEST REPORT

For

Outdoor Access Point

MODEL NUMBER: AP-T565

REPORT NUMBER: E04A23010057F01304

ISSUE DATE: March 28, 2024

FCC ID: 2A2PW149657

IC: 29598-149657

Brand:  FS

Prepared for

FS.COM Inc.

380 Centerpoint Blvd, New Castle, DE 19720, United States

Prepared by

Guangdong Global Testing Technology Co., Ltd.

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**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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Global Testing Technology Co., Ltd.**

Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|----------------|---------------|------------|
| V0 | March 28, 2024 | Initial Issue | Jok Yang |

Summary of Test Results

| Test Item | Clause | Limit/Requirement | Result |
|--|---|---|--------|
| ON TIME AND DUTY CYCLE | ANSI C63.10-2013, Clause 12.2 | None; for reporting purposes only. | Pass |
| 6dB AND 26dB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH | KDB 789033 D02 v02r01 Section C.1 | FCC Part 15.407 (a)(2)(5), RSS-247 ISSUE 3, Clause 6.2.1.2 ,RSS-Gen Clause 6.6 | Pass |
| CONDUCTED OUTPUT POWER | KDB 789033 D02 v02r01 Section E.3.a (Method PM) | FCC 15.407 (a) ,RSS-247 Clause 6.2 | Pass |
| POWER SPECTRAL DENSITY | KDB 789033 D02 v02r01 Section F | FCC 15.407 (a), RSS-247 Clause 6.2 | Pass |
| AC Power Line Conducted Emission | ANSI C63.10-2013, Clause 6.2. | FCC 15.207, RSS-GEN Clause 8.8 | Pass |
| Radiated Emissions and Band Edge Measurement | KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6 | FCC 15.407 (b) FCC 15.209 FCC 15.205, RSS-247 Clause 6.2 RSS-GEN Clause 8.9 | Pass |
| FREQUENCY STABILITY | N/A | FCC 15.407 (g),RSS-247 ISSUE 3 Clause6 | Pass |
| Dynamic Frequency Selection (Master) | KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02 | FCC Part 15.407 (h), RSS-247 ISSUE 3 Clause6.3 | Pass |
| Antenna Requirement | N/A | FCC 47 CFR Part 15.203/ 15.407(a)(1) (2), RSS-Gen Issue 5, Clause 6.8 | Pass |

*This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

*The measurement result for the sample received is <Pass> according to <CFR 47 FCC PART 15 SUBPART E, ISED RSS-247 ISSUE 3 (U-NII)> when <Accuracy Method> decision rule is applied.

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1. ATTESTATION OF TEST RESULTS


Applicant Information

Company Name: FS.COM Inc.
Address: 380 Centerpoint Blvd, New Castle,DE 19720, United States

Manufacturer Information

Company Name: FS.COM Inc.
Address: 380 Centerpoint Blvd, New Castle,DE 19720, United States

EUT Information

Product Description: Outdoor Access Point
Model: AP-T565
Brand: 
Sample Received Date: January 4, 2023
Sample Status: Normal
Sample ID: A23010057 007
Date of Tested: February 24, 2023 to March 20, 2024

| APPLICABLE STANDARDS | |
|--|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART E ISED RSS-247 ISSUE 3 (U-NII) | Pass |

Prepared By:



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Approved By:



Shawn Wen
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Checked By:



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Laboratory Leader

2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC PART 15 SUBPART E ISED RSS-247 ISSUE 3 (U-NII)

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 |
|-----------------------------|------|--|
| Emission Bandwidth | 1.96 | ±9.0 PPM |
| Conduct Output Power | 1.96 | ± 1.12 dB |
| Power Spectral Density | 1.96 | ± 2.1 dB |
| Conducted Spurious Emission | 1.96 | 9 kHz-30 MHz: ± 0.95 dB 30 MHz-1 GHz: ± 1.5 dB 1GHz-12.75GHz: ± 1.8 dB 12.75 GHz-26.5 GHz: ± 2.1dB 26.5 GHz-40 GHz: ± 2.6 dB |
| Frequency Stability | 1.96 | ±9.0 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 | 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 | | Outdoor Access Point |
| Model | | AP-T565 |
| EUT Classification | | Class B |
| Hardware Version | | V1.0 |
| Software Version | | V1.0 |
| Ratings | | DC 48V / POE 48V |
| Power Supply | DC | 48V |

| | |
|-----------------------|---|
| Frequency Band: | 5150 MHz to 5250 MHz (U-NII-1) 5250 MHz to 5350 MHz (U-NII-2A) 5470 MHz to 5725 MHz (U-NII-2C) 5725 MHz to 5850 MHz (U-NII-3) |
| Frequency Range: | 5180 MHz to 5240 MHz 5260 MHz to 5320 MHz 5500 MHz to 5700 MHz 5745 MHz to 5825 MHz |
| Support Standards: | IEEE 802.11a/n/ac/ax |
| TPC Function: | Support |
| DFS Operational mode: | Master |
| Type of Modulation: | IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Channel Spacing: | IEEE 802.11a/n HT20/ac VHT20/ax HE20: 20 MHz IEEE 802.11n HT40/ac VHT40/ax HE40: 40 MHz IEEE 802.11ac VHT80/ax HE80: 80 MHz |
| Data Rate: | IEEE 802.11a: Up to 54 Mbps IEEE 802.11n HT20: Up to MCS15 IEEE 802.11n HT40: Up to MCS15 IEEE 802.11ac VHT20: Up to MCS9 IEEE 802.11ac VHT40: Up to MCS9 IEEE 802.11ac VHT80: Up to MCS9 IEEE 802.11ax HE20: Up to MCS11 IEEE 802.11ax HE40: Up to MCS11 IEEE 802.11ax HE80: Up to MCS11 |
| Number of Channels: | 5150 MHz to 5250 MHz: 4 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11ac VHT80/ax HE80 5250 MHz to 5350 MHz: 4 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11acVHT80/ax HE80 5470 MHz to 5725 MHz: 11 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 |

| | |
|---------------------------------|---|
| | <p>5 for IEEE 802.11n HT40/ac VHT40/ax HE40 2 for IEEE 802.11ac VHT80/ax HE80 5725 MHz to 5850 MHz: 5 for IEEE 802.11a/n HT20/ac VHT20/ax HE20 2 for IEEE 802.11n HT40/ac VHT40/ax HE40 1 for IEEE 802.11ac VHT80/ax HE80</p> |
| Maximum conducted output power: | <p>U-NII-1 IEEE 802.11a: 13.2 dBm IEEE 802.11n HT20: 11.03 dBm IEEE 802.11n HT40: 11.8 dBm IEEE 802.11ac VHT20: 11.06 dBm IEEE 802.11ac VHT40: 11.51 dBm IEEE 802.11ac VHT80: 11.57 dBm IEEE 802.11ax HE20: 11.37 dBm IEEE 802.11ax HE40: 11.84 dBm IEEE 802.11ax HE80: 11.74 dBm U-NII-2A IEEE 802.11a: 13.22 dBm IEEE 802.11n HT20: 10.98 dBm IEEE 802.11n HT40: 10.55 dBm IEEE 802.11ac VHT20: 10.91 dBm IEEE 802.11ac VHT40: 10.31 dBm IEEE 802.11ac VHT80: 10.48 dBm IEEE 802.11ax HE20: 11.13 dBm IEEE 802.11ax HE40: 10.51 dBm IEEE 802.11ax HE80: 10.69 dBm U-NII-2C IEEE 802.11a: 12.75 dBm IEEE 802.11n HT20: 10.74 dBm IEEE 802.11n HT40: 10.58 dBm IEEE 802.11ac VHT20: 10.88 dBm IEEE 802.11ac VHT40: 10.28 dBm IEEE 802.11ac VHT80: 10.16 dBm IEEE 802.11ax HE20: 10.97 dBm IEEE 802.11ax HE40: 10.62 dBm IEEE 802.11ax HE80: 10.64 dBm U-NII-3 IEEE 802.11a: 8.5 dBm IEEE 802.11n HT20: 10.99 dBm IEEE 802.11n HT40: 10.74 dBm IEEE 802.11ac VHT20: 10.88 dBm IEEE 802.11ac VHT40: 10.64 dBm IEEE 802.11ac VHT80: 10.84 dBm IEEE 802.11ax HE20: 11.23 dBm IEEE 802.11ax HE40: 10.76 dBm IEEE 802.11ax HE80: 11.16 dBm</p> |
| Antenna Type: | Internal Antenna |
| Antenna Gain: | 6 dBi for antenna 1 6 dBi for antenna 2 |
| EUT Test software: | accessMtool |

5.2. CHANNEL LIST

| UNII-1 (For Bandwidth = 20 MHz) | | UNII-1 (For Bandwidth = 40 MHz) | | UNII-1 (For Bandwidth = 80 MHz) | |
|------------------------------------|-----------------|------------------------------------|-----------------|------------------------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 36 | 5180 | 38 | 5190 | 42 | 5210 |
| 40 | 5200 | 46 | 5230 | | |
| 44 | 5220 | | | | |
| 48 | 5240 | | | | |

| UNII-2A (For Bandwidth = 20 MHz) | | UNII-2A (For Bandwidth = 40 MHz) | | UNII-2A (For Bandwidth = 80 MHz) | |
|-------------------------------------|-----------------|-------------------------------------|-----------------|-------------------------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 52 | 5260 | 54 | 5270 | 58 | 5290 |
| 56 | 5280 | 62 | 5310 | | |
| 60 | 5300 | | | | |
| 64 | 5320 | | | | |

| UNII-2C (For Bandwidth = 20 MHz) | | UNII-2C (For Bandwidth = 40 MHz) | | UNII-2C (For Bandwidth = 80 MHz) | |
|-------------------------------------|-----------------|-------------------------------------|-----------------|-------------------------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 100 | 5500 | 102 | 5510 | 106 | 5530 |
| 104 | 5520 | 110 | 5550 | 122 | 5610 |
| 108 | 5540 | 118 | 5590 | | |
| 112 | 5560 | 126 | 5630 | | |
| 116 | 5580 | 134 | 5670 | | |
| 120 | 5600 | | | | |
| 124 | 5620 | | | | |
| 128 | 5640 | | | | |
| 132 | 5660 | | | | |
| 136 | 5680 | | | | |
| 140 | 5700 | | | | |

| UNII-3 (For Bandwidth=20MHz) | | UNII-3 (For Bandwidth=40MHz) | | UNII-3 (For Bandwidth=80MHz) | |
|---------------------------------|-----------------|---------------------------------|-----------------|---------------------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 149 | 5745 | 151 | 5755 | 155 | 5775 |
| 153 | 5765 | 159 | 5795 | | |
| 157 | 5785 | | | | |
| 161 | 5805 | | | | |
| 165 | 5825 | | | | |

5.3. MAXIMUM AVERAGE EIRP**UNII-1 BAND(FCC&ISED)**

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power (dBm) | Max Average EIRP (dBm) |
|------------------|-----------------|---------------------------------------|------------------------|
| a | 5150 ~ 5250 | 13.2 | 19.2 |
| n HT20 | | 11.03 | 17.03 |
| n HT40 | | 11.8 | 17.8 |
| ac VHT20 | | 11.06 | 17.06 |
| ac VHT40 | | 11.51 | 17.51 |
| ac VHT80 | | 11.57 | 17.57 |
| ax HE20 | | 11.37 | 17.37 |
| ax HE40 | | 11.84 | 17.84 |
| ax HE80 | | 11.74 | 17.74 |

UNII-2A BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power(dBm) | Max Average EIRP (dBm) |
|------------------|-----------------|--------------------------------------|------------------------|
| a | 5250 ~ 5350 | 13.22 | 19.22 |
| n HT20 | | 10.98 | 16.98 |
| n HT40 | | 10.55 | 16.55 |
| ac VHT20 | | 10.91 | 16.91 |
| ac VHT40 | | 10.31 | 16.31 |
| ac VHT80 | | 10.48 | 16.48 |
| ax HE20 | | 11.13 | 17.13 |
| ax HE40 | | 10.51 | 16.51 |
| ax HE80 | | 10.69 | 16.69 |

UNII-2C BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power(dBm) | Max Average EIRP (dBm) |
|------------------|-----------------|--------------------------------------|------------------------|
| a | 5470 ~ 5725 | 12.75 | 18.75 |
| n HT20 | | 10.74 | 16.74 |
| n HT40 | | 10.58 | 16.58 |
| ac VHT20 | | 10.88 | 16.88 |
| ac VHT40 | | 10.28 | 16.28 |
| ac VHT80 | | 10.16 | 16.16 |
| ax HE20 | | 10.97 | 16.97 |
| ax HE40 | | 10.62 | 16.62 |
| ax HE80 | | 10.64 | 16.64 |

UNII-3 BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power(dBm) | Max Average EIRP (dBm) |
|------------------|-----------------|--------------------------------------|------------------------|
| a | 5725 ~ 5850 | 8.5 | 14.5 |
| n HT20 | | 10.99 | 16.99 |
| n HT40 | | 10.74 | 16.74 |

| | | | |
|----------|--|-------|-------|
| ac VHT20 | | 10.88 | 16.88 |
| ac VHT40 | | 10.64 | 16.64 |
| ac VHT80 | | 10.84 | 16.84 |
| ax HE20 | | 11.23 | 17.23 |
| ax HE40 | | 10.76 | 16.76 |
| ax HE80 | | 11.16 | 17.16 |

5.4. THE WORSE CASE POWER SETTING PARAMETER

| The Worse Case Power Setting Parameter | |
|--|-------------|
| Test Software | accessMtool |

UNII-1

| Mode | Rate | Channel | Soft set value | |
|------------|------|---------|----------------|-------|
| | | | ANT 1 | ANT 2 |
| 11a | 6M | 36 | 60 | 60 |
| | | 40 | 60 | 60 |
| | | 48 | 60 | 60 |
| 11n HT20 | MCS8 | 36 | 40 | 40 |
| | | 40 | 40 | 40 |
| | | 48 | 40 | 40 |
| 11n HT40 | MCS8 | 38 | 40 | 40 |
| | | 46 | 40 | 40 |
| 11ac VHT20 | MCS0 | 36 | 40 | 40 |
| | | 40 | 40 | 40 |
| | | 48 | 40 | 40 |
| 11ac VHT40 | MCS0 | 38 | 40 | 40 |
| | | 46 | 40 | 40 |
| 11ac VHT80 | MCS0 | 42 | 40 | 40 |
| 11ax HE20 | MCS0 | 36 | 40 | 40 |
| | | 40 | 40 | 40 |
| | | 48 | 40 | 40 |
| 11ax HE40 | MCS0 | 38 | 40 | 40 |
| | | 46 | 40 | 40 |
| 11ax HE80 | MCS0 | 42 | 40 | 40 |

UNII-2A

| Mode | Rate | Channel | Soft set value | |
|------------|------|---------|----------------|-------|
| | | | ANT 1 | ANT 2 |
| 11a | 6M | 52 | 60 | 60 |
| | | 56 | 60 | 60 |
| | | 64 | 60 | 60 |
| 11n HT20 | MCS8 | 52 | 40 | 40 |
| | | 56 | 40 | 40 |
| | | 64 | 40 | 40 |
| 11n HT40 | MCS8 | 54 | 40 | 40 |
| | | 62 | 40 | 40 |
| 11ac VHT20 | MCS0 | 52 | 40 | 40 |

| | | | | |
|------------|------|----|----|----|
| | | 56 | 40 | 40 |
| | | 64 | 40 | 40 |
| 11ac VHT40 | MCS0 | 54 | 40 | 40 |
| | | 62 | 40 | 40 |
| 11ac VHT80 | MCS0 | 58 | 40 | 40 |
| 11ax HE20 | MCS0 | 52 | 40 | 40 |
| | | 56 | 40 | 40 |
| | | 64 | 40 | 40 |
| 11ax HE40 | MCS0 | 54 | 40 | 40 |
| | | 62 | 40 | 40 |
| 11ax HE80 | MCS0 | 58 | 40 | 40 |

UNII-2C

| Mode | Rate | Channel | Soft set value | |
|------------|------|---------|----------------|-------|
| | | | ANT 1 | ANT 2 |
| 11a | 6M | 100 | 60 | 60 |
| | | 116 | 60 | 60 |
| | | 140 | 60 | 60 |
| 11n HT20 | MCS8 | 100 | 40 | 40 |
| | | 116 | 40 | 40 |
| | | 140 | 40 | 40 |
| 11n HT40 | MCS8 | 102 | 40 | 40 |
| | | 118 | 40 | 40 |
| | | 134 | 40 | 40 |
| 11ac VHT20 | MCS0 | 100 | 40 | 40 |
| | | 116 | 40 | 40 |
| | | 140 | 40 | 40 |
| 11ac VHT40 | MCS0 | 102 | 40 | 40 |
| | | 118 | 40 | 40 |
| | | 134 | 40 | 40 |
| 11ac VHT80 | MCS0 | 106 | 40 | 40 |
| | | 122 | 40 | 40 |
| 11ax HE20 | MCS0 | 100 | 40 | 40 |
| | | 116 | 40 | 40 |
| | | 140 | 40 | 40 |
| 11ax HE40 | MCS0 | 102 | 40 | 40 |
| | | 118 | 40 | 40 |
| | | 134 | 40 | 40 |
| 11ax HE80 | MCS0 | 106 | 40 | 40 |
| | | 122 | 40 | 40 |

UNII-3

| Mode | Rate | Channel | Soft set value | |
|----------|------|---------|----------------|-------|
| | | | ANT1 | ANT 2 |
| 11a | 6M | 149 | 60 | 60 |
| | | 157 | 60 | 60 |
| | | 165 | 60 | 60 |
| 11n HT20 | MCS0 | 149 | 40 | 40 |
| | | 157 | 40 | 40 |
| | | 165 | 40 | 40 |
| 11n HT40 | MCS0 | 151 | 40 | 40 |
| | | 159 | 40 | 40 |

| | | | | |
|------------|------|-----|----|----|
| 11ac VHT20 | MCS0 | 149 | 40 | 40 |
| | | 157 | 40 | 40 |
| | | 165 | 40 | 40 |
| 11ac VHT40 | MCS0 | 151 | 40 | 40 |
| | | 159 | 40 | 40 |
| 11ac VHT80 | MCS0 | 155 | 40 | 40 |
| 11ax HE20 | MCS0 | 149 | 40 | 40 |
| | | 157 | 40 | 40 |
| | | 165 | 40 | 40 |
| 11ax HE40 | MCS0 | 151 | 40 | 40 |
| | | 159 | 40 | 40 |
| 11ax HE80 | MCS0 | 155 | 40 | 40 |

THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.4.

Worst case Data Rates declared by the customer:

802.11a mode: 6 Mbps
 802.11n HT20 mode: MCS8
 802.11n HT40 mode: MCS8
 802.11ac VHT20 mode: MCS0
 802.11ac VHT40 mode: MCS0
 802.11ac VHT80 mode: MCS0
 802.11ax HE20 mode: MCS0
 802.11ax HE40 mode: MCS0
 802.11ax HE80 mode: MCS0

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna No. | Frequency Band | Antenna Type | Max Antenna Gain (dBi) |
|-------------|----------------|------------------|------------------------|
| 1 | 5150-5850 | Internal Antenna | 6 |
| 2 | 5150-5850 | Internal Antenna | 6 |

MIMO output power port and MIMO PSD port summing were performed in accordance with KDB 662911 D01. For the MIMO results the Directional Gain was calculated in accordance with the following method.

For output power measurements:

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = (6 + 0) \text{ dBi} = 6 \text{ dBi}$$

Note:

G_{ANT} : Antenna gain.

Array Gain = 0 dB for $N_{\text{ANT}} \leq 4$ when all antennas have the same gain.

N_{ANT} : the total number of antennas.

For power spectral density (PSD) measurements:

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = (6 + 3.01) \text{ dBi} = 9.01 \text{ dBi}$$

Note:

G_{ANT} : Antenna gain.

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB} = 10 \log(2/1) \text{ dB} = 3.01 \text{ dB}$$

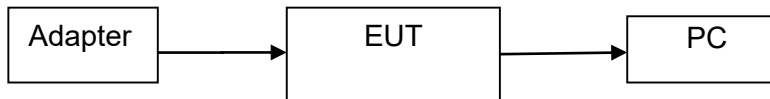
| IEE Std. 802.11 | Transmit and Receive Mode | Description |
|-----------------|---------------------------|--|
| 802.11a | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11n HT20 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11n HT40 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ac VHT20 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ac VHT40 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ac VHT80 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ax HE20 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ax HE40 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |
| 802.11ax HE80 | ☒2TX, 2RX | ANT 1 and ANT 2 can be used as transmitting/receiving antenna. |

5.6. SUPPORT UNITS FOR SYSTEM TEST

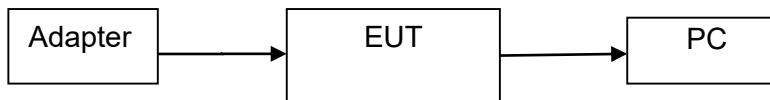
| Equipment | Manufacturer | Model No. |
|-----------|--------------|-----------|
| Adapter | Lulian | CD170 |
| PC | Lenovo | T14 |

5.7. SETUP DIAGRAM

AC conducted emission :



Radiated Emission:



RF conducted:



6. MEASURING EQUIPMENT AND SOFTWARE USED

| Test Equipment of Conducted RF | | | | | |
|-------------------------------------|-----------------|----------------------|-------------|------------|------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 102257 | 2023/09/18 | 2024/09/17 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51285127 | 2023/09/18 | 2024/09/17 |
| EXG Analog Signal Generator | KEYSIGHT | N5173B | MY61253075 | 2023/09/18 | 2024/09/17 |
| Vector Signal Generator | Rohde & Schwarz | SMM100A | 101899 | 2023/09/18 | 2024/09/17 |
| RF Control box | MWRF-test | MW100-RFCB | MW220926GTG | 2023/09/18 | 2024/09/17 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW270 | 102792 | 2023/09/18 | 2024/09/17 |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 103235 | 2023/09/18 | 2024/09/17 |
| temperature humidity chamber | Espec | SH-241 | SH-241-2014 | 2023/09/18 | 2024/09/17 |
| 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 | 2023/09/18 | 2024/09/17 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2023/09/18 | 2024/09/17 |
| Pre-Amplifier | HZEMC | HPA-9K0130 | HYP A21001 | 2023/09/18 | 2024/09/17 |
| Biconilog Antenna | Schwarzbeck | VULB 9168 | 01315 | 2022/10/10 | 2025/10/09 |
| Biconilog Antenna | ETS | 3142E | 00243646 | 2022/03/23 | 2025/03/22 |
| Loop Antenna | ETS | 6502 | 243668 | 2022/03/30 | 2025/03/29 |
| 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 | 2023/09/18 | 2024/09/17 |
| Spectrum Analyzer | KEYSIGHT | N9020A | MY51283932 | 2023/09/18 | 2024/09/17 |
| Pre-Amplifier | A-INFO | HPA-1G1850 | HYP A21003 | 2023/09/18 | 2024/09/17 |
| Horn antenna | A-INFO | 3117 | 246069 | 2022/03/11 | 2025/03/10 |
| Pre-Amplifier | ZKJC | HPA-184057 | HYP A21004 | 2023/09/18 | 2024/09/17 |

| | | | | | |
|---------------|-------|--------------------------------|--------|------------|------------|
| Horn antenna | ZKJC | 3116C | 246265 | 2022/03/29 | 2025/03/28 |
| Test Software | Farad | EZ-EMC (Ver.FA-03A2 RE+) | N/A | N/A | N/A |

| Test Equipment of Conducted emissions | | | | | |
|--|---------------------|------------------------------------|-------------------|------------------|-----------------|
| Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Due Date |
| Shielded Room | CHENG YU | 8m*5m*4m | N/A | 2022/10/29 | 2025/10/28 |
| EMI Test Receiver | Rohde & Schwarz | ESR3 | 102647 | 2023/09/18 | 2024/09/17 |
| LISN/AMN | Rohde & Schwarz | ENV216 | 102843 | 2023/09/18 | 2024/09/17 |
| NNLK 8129 RC | Schwarzbeck | NNLK 8129 RC | 5046 | 2023/09/18 | 2024/09/17 |
| Test Software | Farad | EZ-EMC (Ver. EMC-con-3A1 1+) | N/A | N/A | N/A |

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

LIMITS

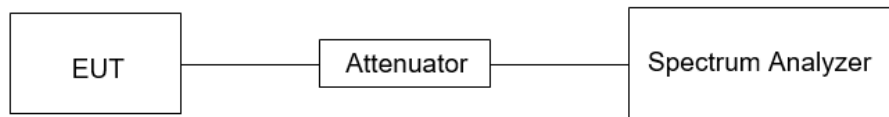
None; for reporting purposes only.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq EBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.5°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.2. 6DB AND 26DB EMISSION BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

| CFR 47 FCC Part15, Subpart E ISED RSS-247 ISSUE 3 | | |
|--|---|---|
| Test Item | Limit | Frequency Range (MHz) |
| 26 dB Emission Bandwidth | For reporting purposes only. | 5150 ~ 5250 |
| 26 dB Emission Bandwidth | For reporting purposes only. | 5250 ~ 5350 |
| 26 dB Emission Bandwidth | For reporting purposes only. | 5470 ~ 5725 (For FCC) 5470 ~ 5600 (For ISED) 5650 ~ 5725 (For ISED) |
| 6 dB Emission Bandwidth | The minimum 6 dB emission bandwidth shall be 500 kHz. | 5725 ~ 5850 |
| 99 % Occupied Bandwidth | For reporting purposes only. | 5150 ~ 5850 (For ISED) |

TEST PROCEDURE

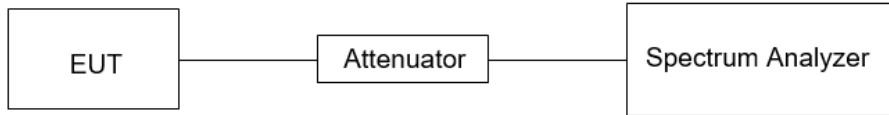
Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

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

| | |
|------------------|---|
| Center Frequency | The center frequency of the channel under test |
| Detector | Peak |
| RBW | For 6 dB Emission Bandwidth: RBW=100 kHz For 26 dB Emission bandwidth: approximately 1 % of the EBW. For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW. |
| VBW | For 6 dB Bandwidth: $\geq 3 \cdot \text{RBW}$ For 26 dB Bandwidth: $> 3 \cdot \text{RBW}$ For 99 % Bandwidth: $> 3 \cdot \text{RBW}$ |
| Trace | Max hold |
| Sweep | Auto couple |

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- 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 6/26 dB relative to the maximum level measured in the fundamental emission.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.5°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.3. CONDUCTED OUTPUT POWER

LIMITS

| CFR 47 FCC Part15, Subpart E | | |
|------------------------------|--|----------------------------|
| Test Item | Limit | Frequency Range (MHz) |
| Conducted Output Power | <input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input checked="" type="checkbox"/> Outdoor Access Point: 1 W (30 dBm) <input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm) <input type="checkbox"/> Client Devices: 250 mW (24 dBm) | 5150 ~ 5250 |
| | Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. | 5250 ~ 5350 5470 ~ 5725 |
| | Shall not exceed 1 Watt (30 dBm). | 5725 ~ 5850 |

| ISED RSS-247 ISSUE 3 | | |
|------------------------------------|--|---|
| Test Item | Limit | Frequency Range (MHz) |
| Conducted Output Power or e.i.r.p. | The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log ₁₀ B, dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz. | 5150 ~ 5250 |
| | a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log ₁₀ B dBm, whichever is less. b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or 17 + 10 log ₁₀ B dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W. | 5250 ~ 5350 5470 ~ 5600 5650 ~ 5725 |
| | Shall not exceed 1 Watt (30 dBm). | 5725 ~ 5850 |

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW ≥ 3 MHz.

- (iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

Method PM (Measurement using an RF average power meter):

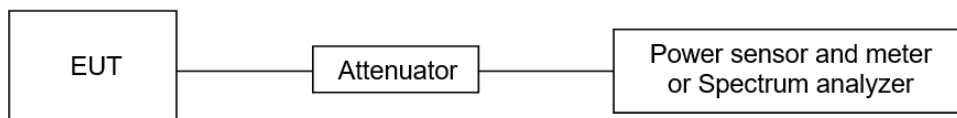
- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
 - b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding $10 \log (1/x)$ where x is the duty cycle (e.g., $10 \log (1/0.25)$ if the duty cycle is 25 %).

Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.5°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.4. POWER SPECTRAL DENSITY

LIMITS

| CFR 47 FCC Part15, Subpart E | | |
|------------------------------|---|----------------------------|
| Test Item | Limit | Frequency Range (MHz) |
| Power Spectral Density | <input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input checked="" type="checkbox"/> Outdoor Access Point: 17 dBm/MHz <input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz <input type="checkbox"/> Client Devices: 11 dBm/MHz | 5150 ~ 5250 |
| | 11 dBm/MHz | 5250 ~ 5350 5470 ~ 5725 |
| | 30 dBm/500kHz | 5725 ~ 5850 |

| ISED RSS-247 ISSUE 3 | | |
|------------------------|--|---|
| Test Item | Limit | Frequency Range (MHz) |
| Power Spectral Density | The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. | 5150 ~ 5250 |
| | The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. | 5250 ~ 5350 5470 ~ 5600 5650 ~ 5725 |
| | 30 dBm / 500 kHz | 5725 ~ 5850 |

Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

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

For U-NII-1, U-NII-2A and U-NII-2C band:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | RMS |
| RBW | 1 MHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |

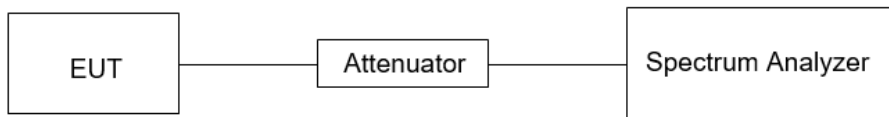
For U-NII-3:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | RMS |
| RBW | 500 kHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.5°C | Relative Humidity | 52% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.5. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -20 °C ~ 50 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.
3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

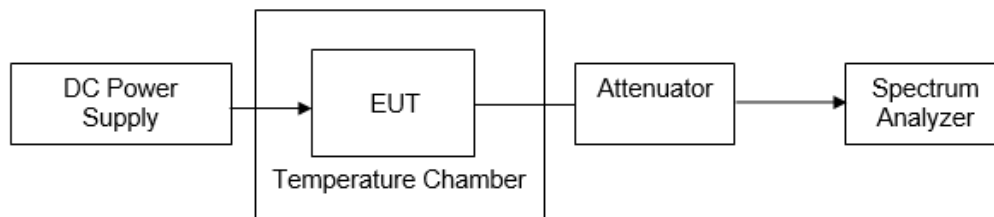
Connect the EUT to the spectrum analyser and use the following settings:

| | |
|------------------|--|
| Center Frequency | The center frequency of the channel under test |
| Detector | Peak |
| RBW | 10 kHz |
| VBW | $\geq 3 \times \text{RBW}$ |
| Span | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace | Max hold |
| Sweep time | Auto |

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 20°C | Relative Humidity | 53% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

7.6. DYNAMIC FREQUENCY SELECTION (MASTER)

LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) |
|--|-------------------------------|
| EIRP \geq 200 milliwatt | -64 dBm |
| EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz | -62 dBm |
| EIRP < 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.
 Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.
 Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

| Parameter | Value |
|-----------------------------------|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds See Note 1. |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2. |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3. |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.
 Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.
 Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.

Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

| Requirement | Operational Mode | | |
|---------------------------------|--|---|--|
| | <input checked="" type="checkbox"/> Master | <input type="checkbox"/> Client Without Radar Detection | <input type="checkbox"/> Client With Radar Detection |
| Non-Occupancy Period | Yes | Not required | Yes |
| DFS Detection Threshold | Yes | Not required | Yes |
| Channel Availability Check Time | Yes | Not required | Not required |
| U-NII Detection Bandwidth | Yes | Not required | Yes |

Table 2: Applicability of DFS requirements during normal operation

| Requirement | Operational Mode | |
|-----------------------------------|--|---|
| | <input checked="" type="checkbox"/> Master Device or Client with Radar Detection | <input type="checkbox"/> Client Without Radar Detection |
| DFS Detection Threshold | Yes | Not required |
| Channel Closing Transmission Time | Yes | Yes |
| Channel Move Time | Yes | Yes |
| U-NII Detection Bandwidth | Yes | Not required |

| Additional requirements for devices with multiple bandwidth modes | <input checked="" type="checkbox"/> Master Device or Client with Radar Detection | <input type="checkbox"/> Client Without Radar Detection |
|---|--|---|
| U-NII Detection Bandwidth and Statistical Performance Check | All BW modes must be tested | Not required |
| Channel Move Time and Channel Closing Transmission Time | Test using widest BW mode available | Test using the widest BW mode available for the link |
| All other tests | Any single BW mode | Not required |

Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

PARAMETERS OF RADAR TEST WAVEFORMS

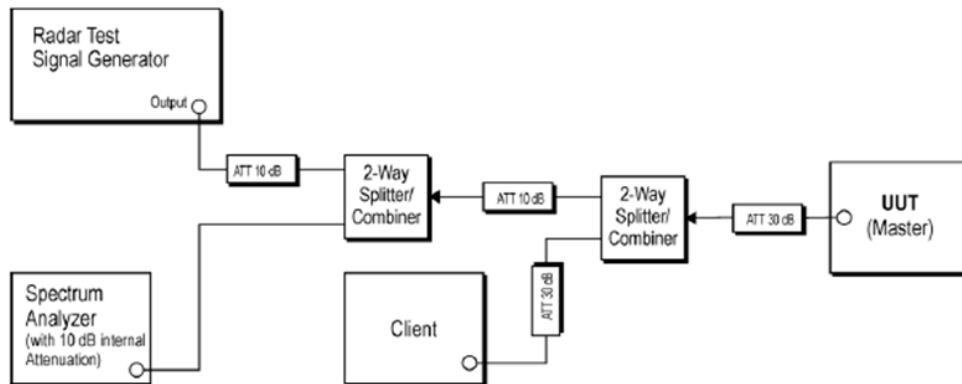
This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|--|--------------------|------------|---|--|--------------------------|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 |
| 1 | 1 | Test A | Roundup $\left\{ \begin{matrix} \frac{1}{360} \\ \frac{19 \cdot 10^6}{PRI_{\mu sec}} \end{matrix} \right\}$ | 60% | 30 |
| | | Test B | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |
| Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests. Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A | | | | | |

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP



TEST ENVIRONMENT

| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.3°C | Relative Humidity | 55% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section "Test Data" - Appendix A

8. RADIATED TEST RESULTS

LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz | | | |
|--|------------------------------------|--------------------------------------|---------|
| 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 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 38.6 |
| 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 - 5480 | |
| 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 38.6 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 refer to FCC §15.205 (a):

| 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

Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISED RSS-247 6.2.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)

| Frequency Range (MHz) | EIRP Limit | Field Strength Limit (dBuV/m) at 3 m |
|---|---|---|
| 5150~5250 MHz | PK: -27 (dBm/MHz) | PK:68.2(dBμV/m) |
| 5250~5350 MHz | | |
| 5470~5725 MHz | | |
| 5725~5850 MHz | PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4 |
| <p>Note:</p> <p>*1 beyond 75 MHz or more above of the band edge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> | | |

TEST PROCEDURE

Below 30 MHz

The setting of the spectrum analyser

| | |
|-------|--|
| 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 |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
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 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m 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. For measurement below 1 GHz, 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 and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field

strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to $Y-51.5 = Z$ dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

The setting of the spectrum analyser

| | |
|----------|----------|
| 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 clause 6.5.
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 80 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 measurement below 1 GHz, 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. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

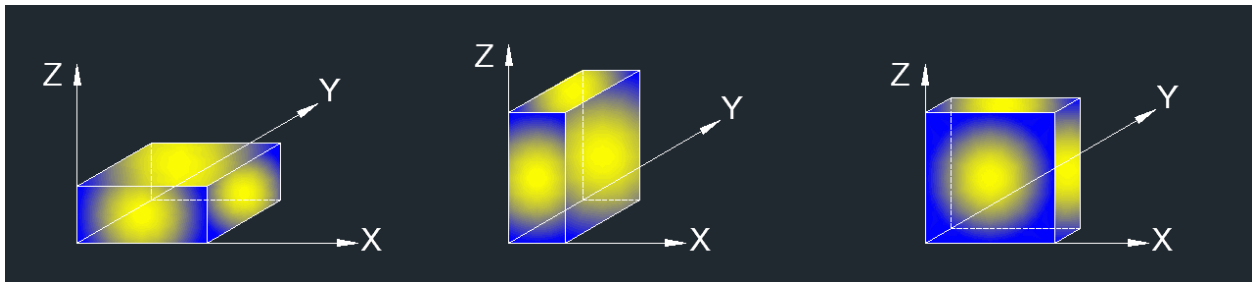
Above 1 GHz

The setting of the spectrum analyser

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

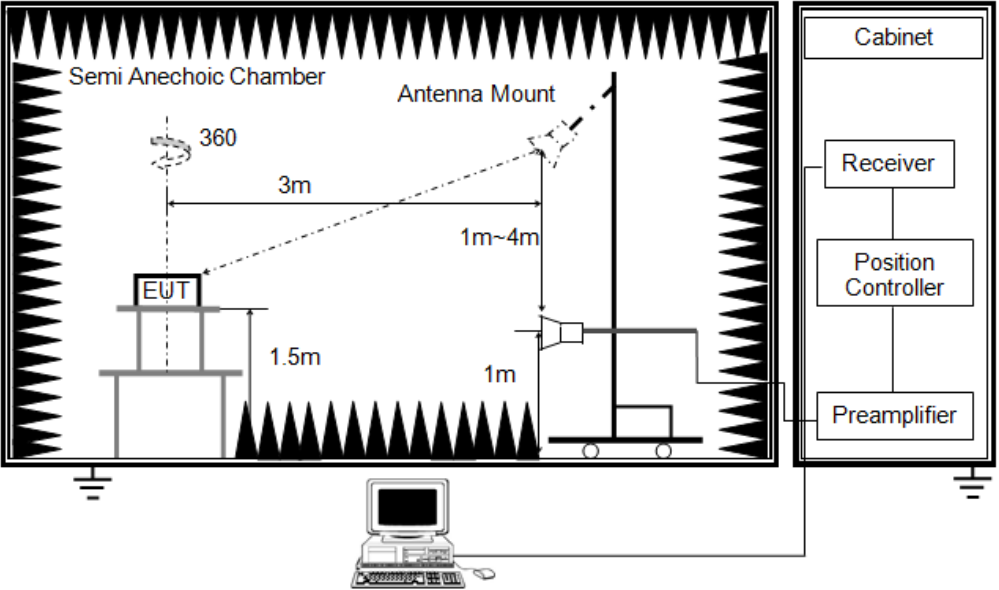
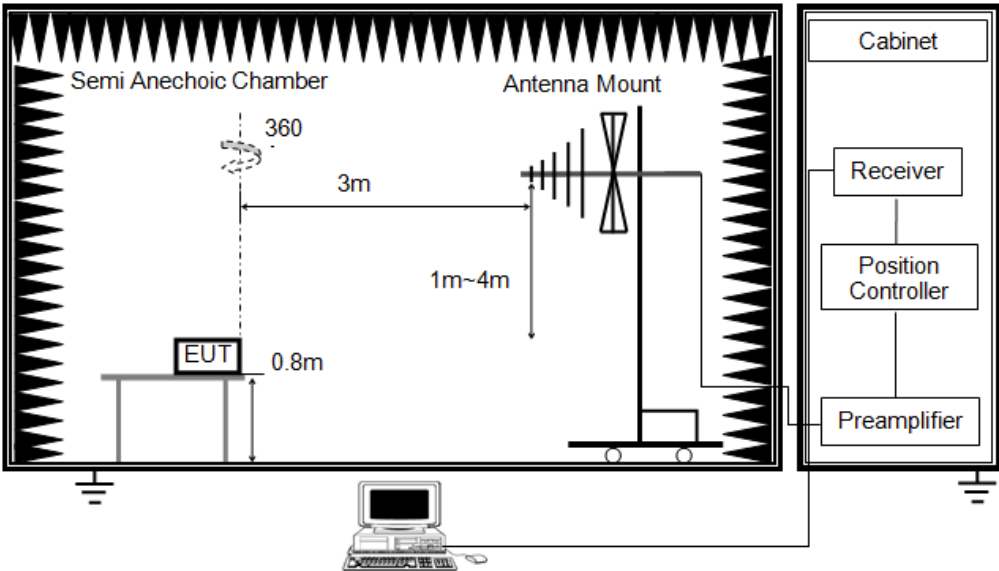
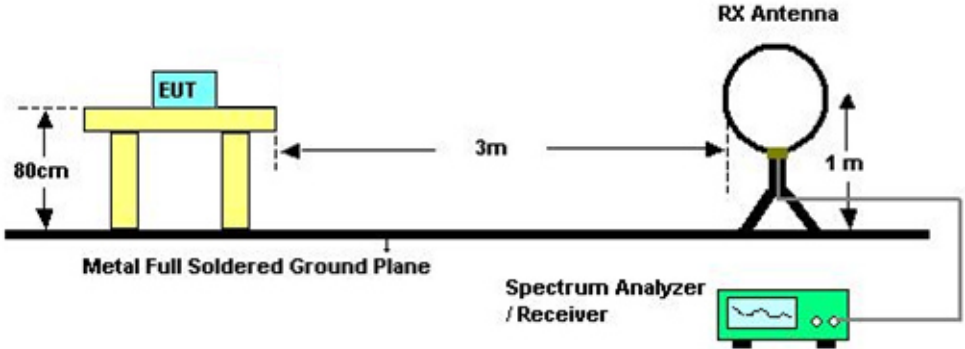
1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp 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 1.5 m 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 measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. 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 and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.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 SETUP



TEST ENVIRONMENT

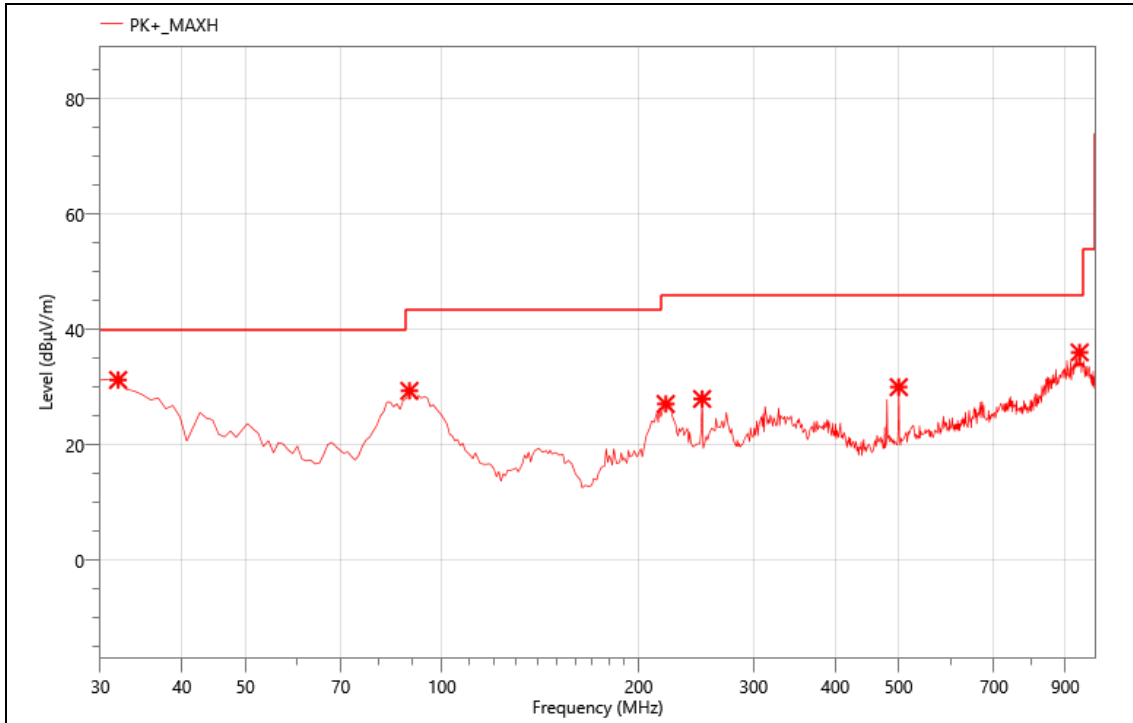
| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 24.3°C | Relative Humidity | 54% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS

Please refer to section 8.1.

8.1. RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

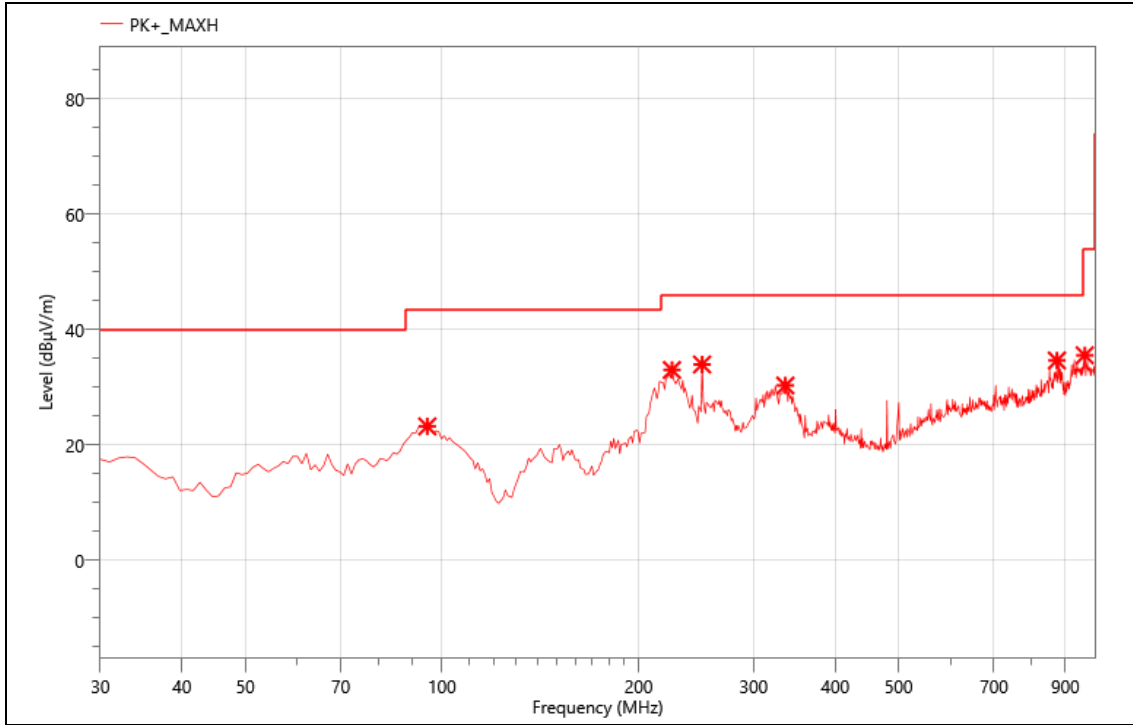
| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.3°C/54%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dBµV/m) | Det. | Pol. | Corr. (dB) |
|-----|-------------|----------------|----------------|----------------|-----------------|------|------|------------|
| 1 | 31.940 | 46.62 | 31.29 | 40.00 | 8.71 | PK+ | V | -15.33 |
| 2 | 89.170 | 54.78 | 29.41 | 43.50 | 14.09 | PK+ | V | -25.37 |
| 3 | 220.120 | 47.92 | 27.13 | 46.00 | 18.87 | PK+ | V | -20.79 |
| 4 | 250.190 | 47.08 | 28.01 | 46.00 | 17.99 | PK+ | V | -19.07 |
| 5 | 500.450 | 42.17 | 30.06 | 46.00 | 15.94 | PK+ | V | -12.11 |
| 6 | 946.650 | 39.42 | 36.08 | 46.00 | 9.92 | PK+ | V | -3.34 |

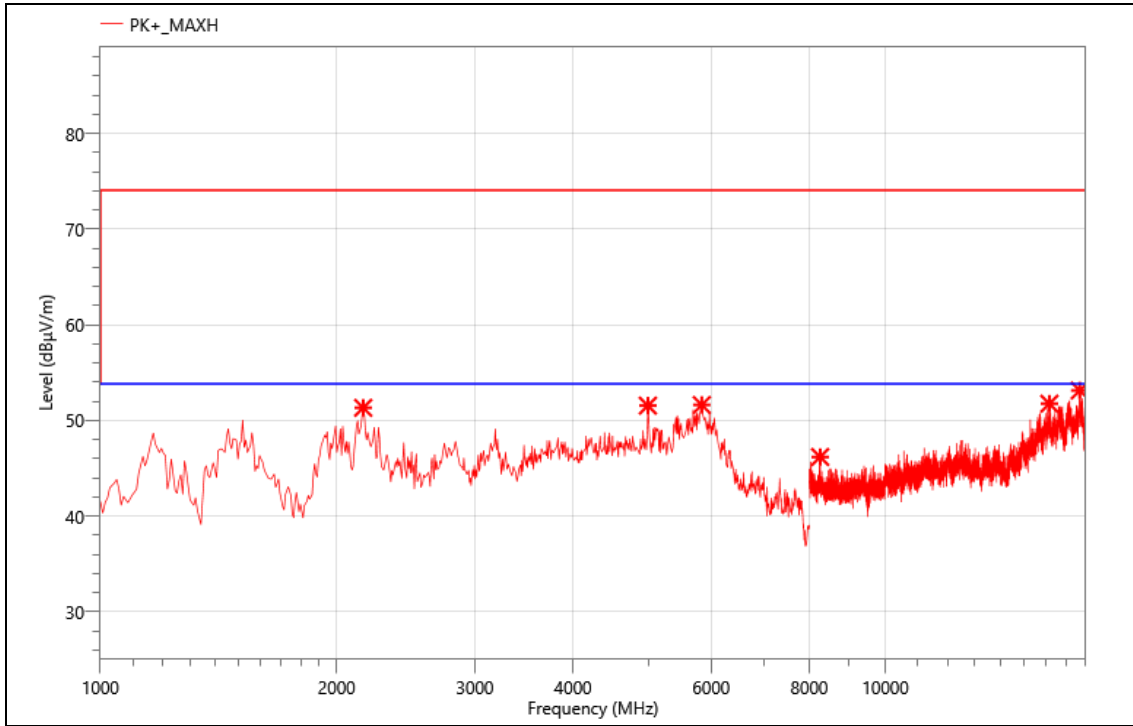
| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.3□/54%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dBµV/m) | Det. | Pol. | Corr. (dB) |
|-----|-------------|----------------|----------------|----------------|-----------------|------|------|------------|
| 1 | 94.990 | 47.88 | 23.25 | 43.50 | 20.25 | PK+ | H | -24.63 |
| 2 | 224.970 | 53.59 | 33.03 | 46.00 | 12.97 | PK+ | H | -20.56 |
| 3 | 250.190 | 53.06 | 33.99 | 46.00 | 12.01 | PK+ | H | -19.07 |
| 4 | 335.550 | 47.45 | 30.34 | 46.00 | 15.66 | PK+ | H | -17.11 |
| 5 | 873.900 | 40.15 | 34.68 | 46.00 | 11.32 | PK+ | H | -5.47 |
| 6 | 964.110 | 39.41 | 35.58 | 53.90 | 18.32 | PK+ | H | -3.83 |

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5260MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5°C/54%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2162.000 | 60.31 | -8.99 | 51.32 | 74.00 | 22.68 | PK+ | H |
| 2 | 4983.000 | 53.25 | -1.7 | 51.55 | 74.00 | 22.45 | PK+ | H |
| 3 | 5837.000 | 50.87 | 0.75 | 51.62 | 74.00 | 22.38 | PK+ | H |
| 4 | 8259.000 | 51.18 | -5 | 46.18 | 74.00 | 27.82 | PK+ | H |
| 5 | 16179.000 | 46.05 | 5.7 | 51.75 | 74.00 | 22.25 | PK+ | H |
| 6 | 17686.000 | 46.69 | 6.44 | 53.13 | 74.00 | 20.87 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5260MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5□/54%/101Kpa |

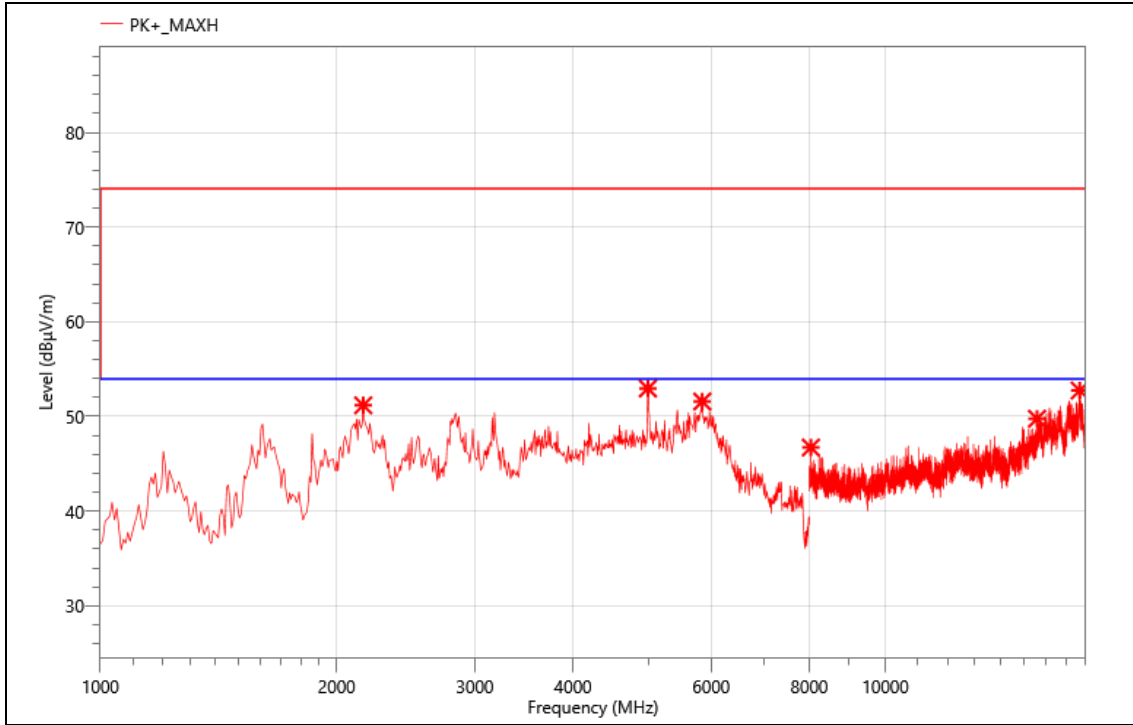


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2169.000 | 59.90 | -8.95 | 50.95 | 74.00 | 23.05 | PK+ | V |
| 2 | 2827.000 | 57.90 | -7.6 | 50.30 | 74.00 | 23.70 | PK+ | V |
| 3 | 4983.000 | 55.03 | -1.7 | 53.33 | 74.00 | 20.67 | PK+ | V |
| 4 | 12606.000 | 48.35 | -0.08 | 48.27 | 74.00 | 25.73 | PK+ | V |
| 5 | 16440.000 | 48.09 | 4.39 | 52.48 | 74.00 | 21.52 | PK+ | V |
| 6 | 17677.000 | 46.47 | 6.48 | 52.95 | 74.00 | 21.05 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr]

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5300MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5□/54%/101Kpa |

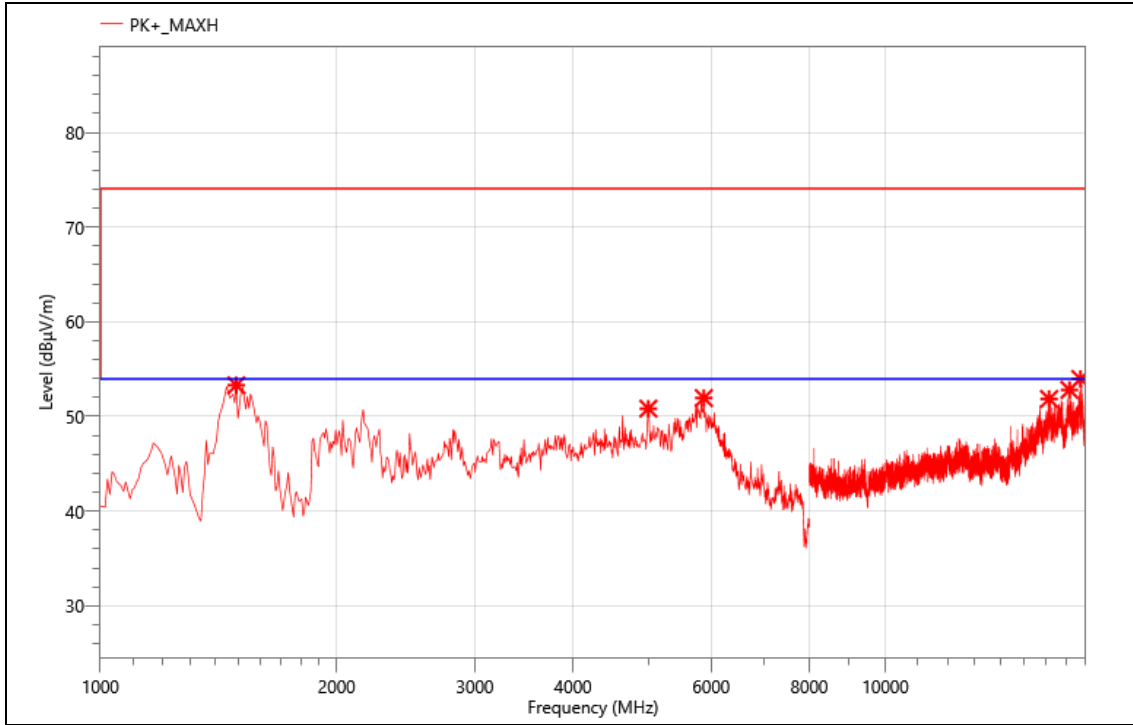


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2162.000 | 60.17 | -8.99 | 51.18 | 74.00 | 22.82 | PK+ | V |
| 2 | 4983.000 | 54.65 | -1.7 | 52.95 | 74.00 | 21.05 | PK+ | V |
| 3 | 5844.000 | 50.85 | 0.73 | 51.58 | 74.00 | 22.42 | PK+ | V |
| 4 | 8038.000 | 52.17 | -5.45 | 46.72 | 74.00 | 27.28 | PK+ | V |
| 5 | 15604.000 | 47.10 | 2.66 | 49.76 | 74.00 | 24.24 | PK+ | V |
| 6 | 17684.000 | 46.29 | 6.45 | 52.74 | 74.00 | 21.26 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5300MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5□/54%/101Kpa |

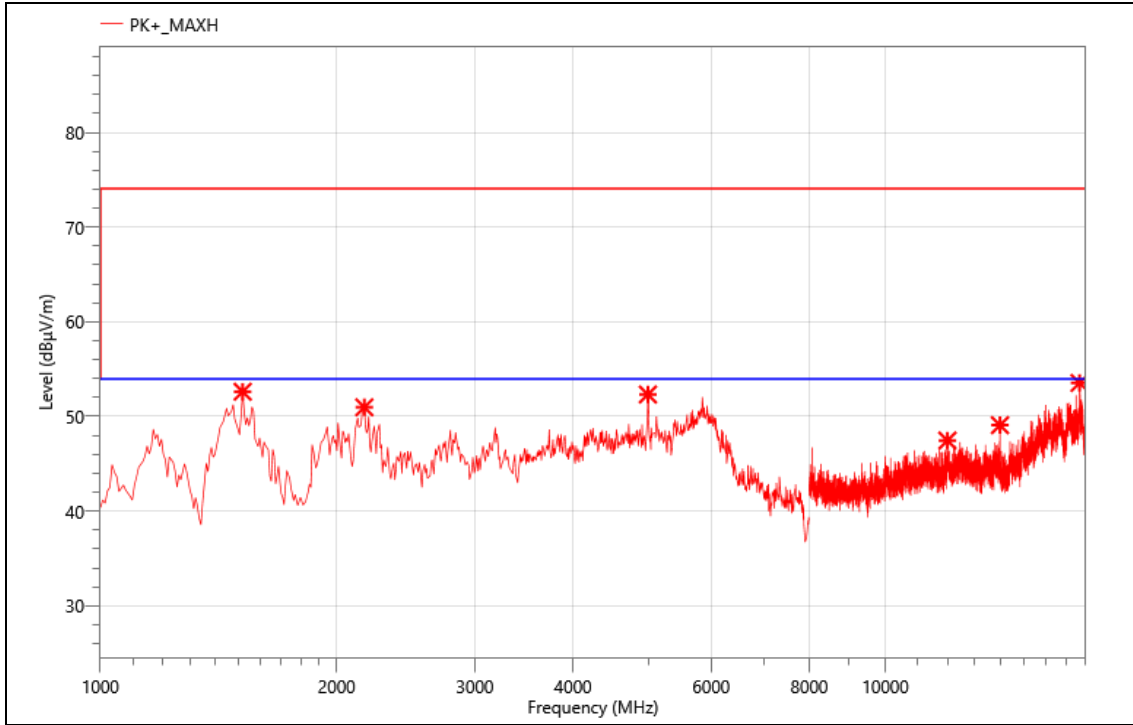


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 1490.000 | 66.85 | -13.56 | 53.29 | 74.00 | 20.71 | PK+ | H |
| 2 | 4990.000 | 52.47 | -1.64 | 50.83 | 74.00 | 23.17 | PK+ | H |
| 3 | 5872.000 | 51.51 | 0.44 | 51.95 | 74.00 | 22.05 | PK+ | H |
| 4 | 16167.000 | 46.06 | 5.79 | 51.85 | 74.00 | 22.15 | PK+ | H |
| 5 | 17163.000 | 46.81 | 6 | 52.81 | 74.00 | 21.19 | PK+ | H |
| 6 | 17720.000 | 47.88 | 6.09 | 53.97 | 74.00 | 20.03 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5□/54%/101Kpa |

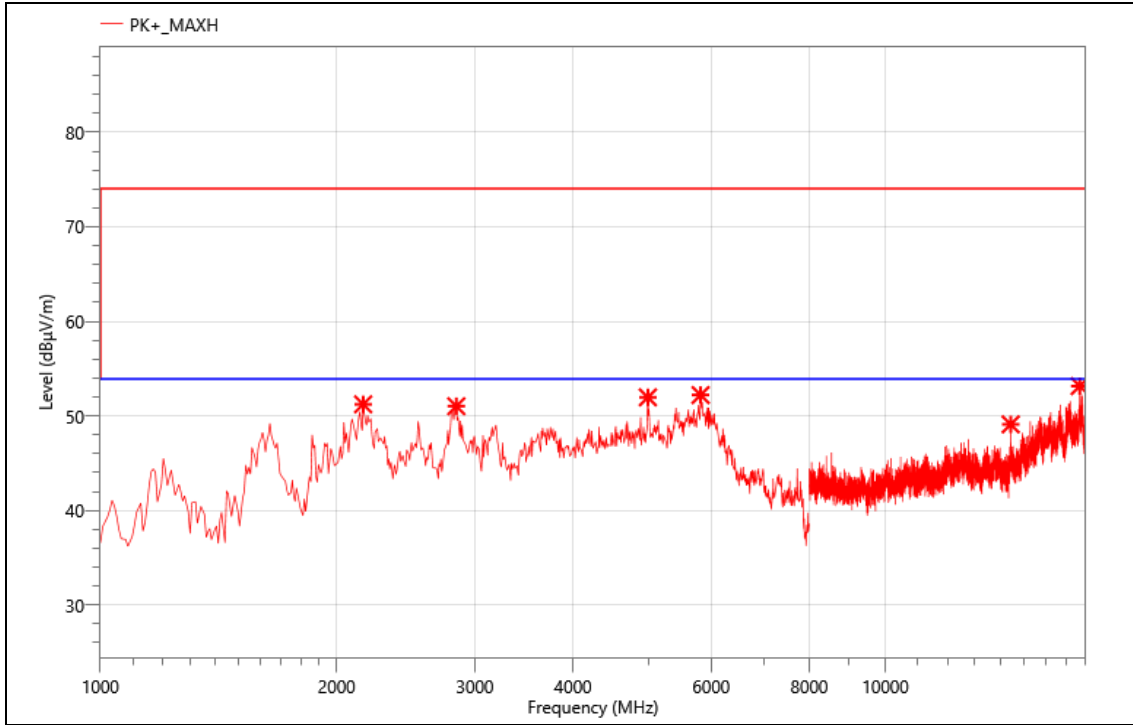


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 1518.000 | 65.83 | -13.22 | 52.61 | 74.00 | 21.39 | PK+ | H |
| 2 | 2169.000 | 59.92 | -8.95 | 50.97 | 74.00 | 23.03 | PK+ | H |
| 3 | 4983.000 | 54.02 | -1.7 | 52.32 | 74.00 | 21.68 | PK+ | H |
| 4 | 11998.000 | 48.07 | -0.61 | 47.46 | 74.00 | 26.54 | PK+ | H |
| 5 | 13996.000 | 48.36 | 0.72 | 49.08 | 74.00 | 24.92 | PK+ | H |
| 6 | 17677.000 | 47.06 | 6.48 | 53.54 | 74.00 | 20.46 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|-------------------------|
| Mode: | 5G WIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/14 |
| T/A/P | 24.5□/54%/101Kpa |



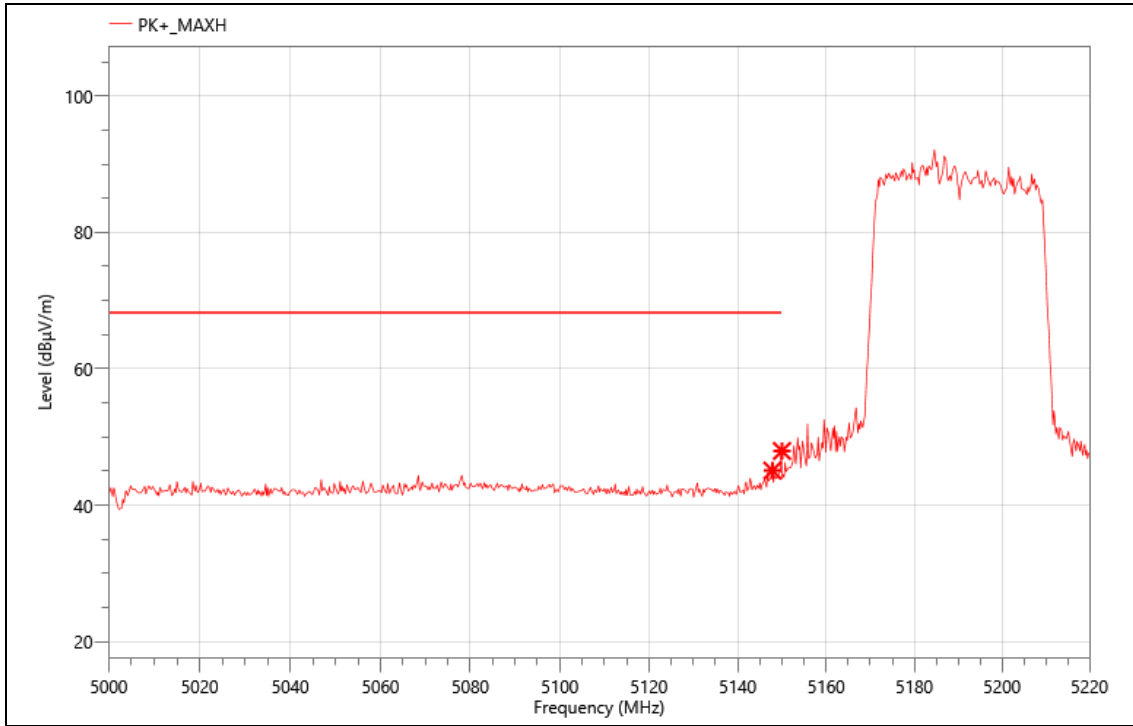
Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 2162.000 | 60.22 | -8.99 | 51.23 | 74.00 | 22.77 | PK+ | V |
| 2 | 2841.000 | 58.44 | -7.41 | 51.03 | 74.00 | 22.97 | PK+ | V |
| 3 | 4983.000 | 53.67 | -1.7 | 51.97 | 74.00 | 22.03 | PK+ | V |
| 4 | 5816.000 | 51.54 | 0.67 | 52.21 | 74.00 | 21.79 | PK+ | V |
| 5 | 14443.000 | 48.27 | 0.84 | 49.11 | 74.00 | 24.89 | PK+ | V |
| 6 | 17685.000 | 46.71 | 6.44 | 53.15 | 74.00 | 20.85 | 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.
5. The frequency, which started from 18 GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.
6. 802.11a,802.11n HT20,802.11n HT40,802.11ac VHT20,802.11ac VHT40,802.11ac VHT80 ,802.11ax HE20,802.11ax HE40, and 802.11ax HE80 were all tested, and only 802.11a was recorded in the report as the worst mode.

| | |
|--------|------------------------------|
| Mode: | 5GWIFI 802.11ax HE40 5190MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3°C/54%/101Kpa |

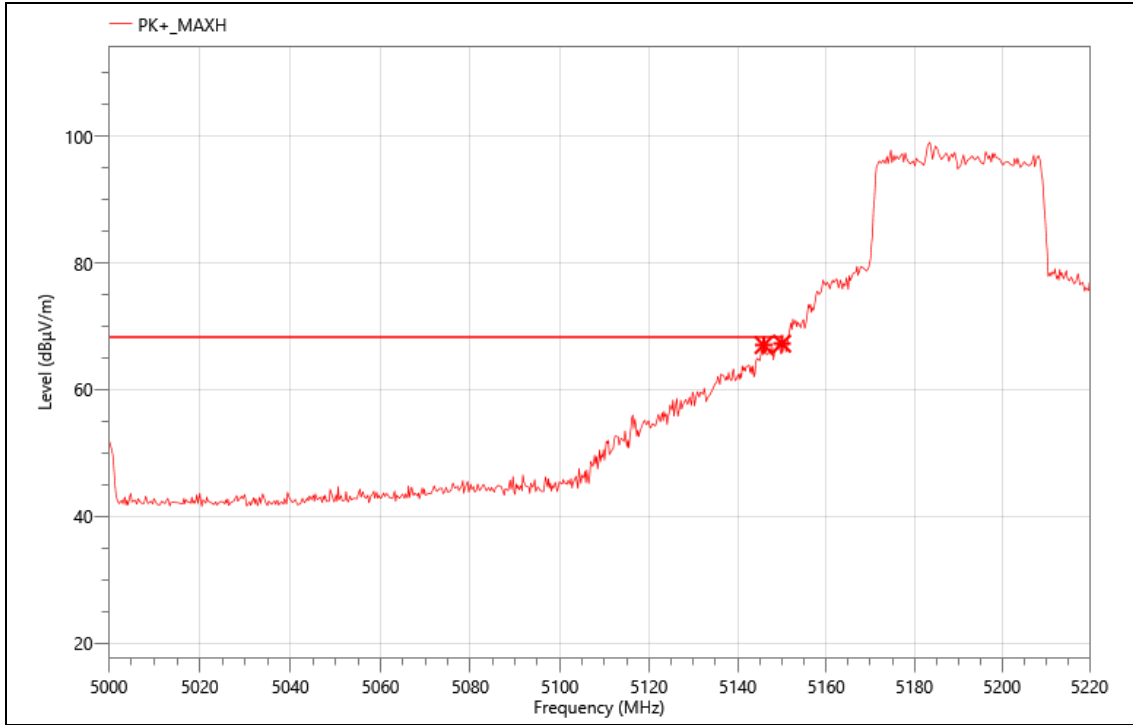


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5147.840 | 55.96 | -10.86 | 45.10 | 68.20 | 23.10 | PK+ | H |
| 2 | 5150.000 | 58.81 | -10.84 | 47.97 | 68.20 | 20.23 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------------|
| Mode: | 5GWIFI 802.11ax HE40 5190MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |

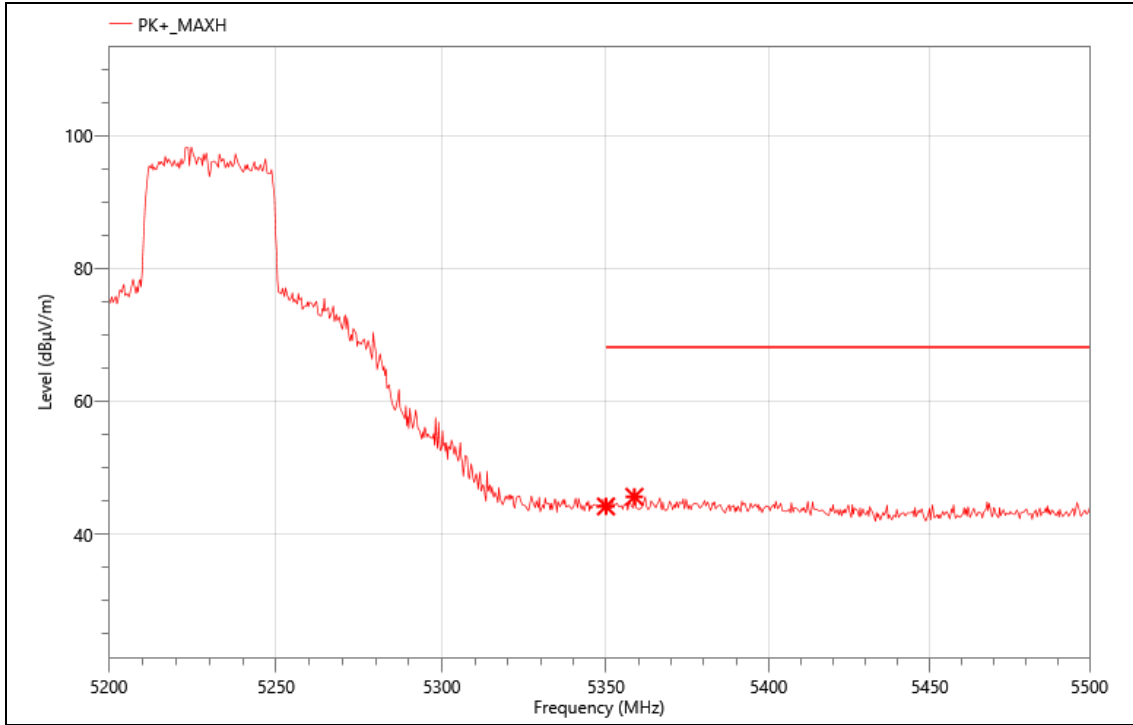


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5145.860 | 77.94 | -10.89 | 67.05 | 68.20 | 1.15 | PK+ | V |
| 2 | 5150.000 | 78.12 | -10.84 | 67.28 | 68.20 | 0.92 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------------|
| Mode: | 5GWIFI 802.11ax HE40 5230MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |

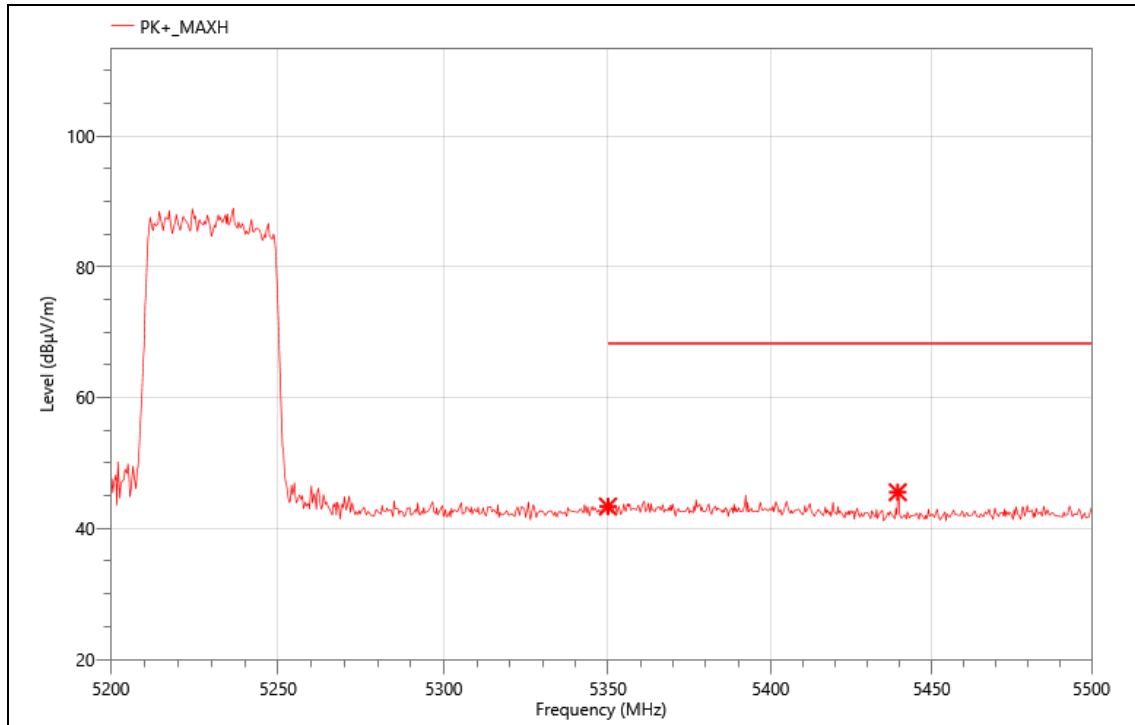


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5350.000 | 54.22 | -10.03 | 44.19 | 68.20 | 24.01 | PK+ | V |
| 2 | 5358.700 | 55.49 | -9.85 | 45.64 | 68.20 | 22.56 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------------|
| Mode: | 5GWIFI 802.11ax HE40 5230MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |



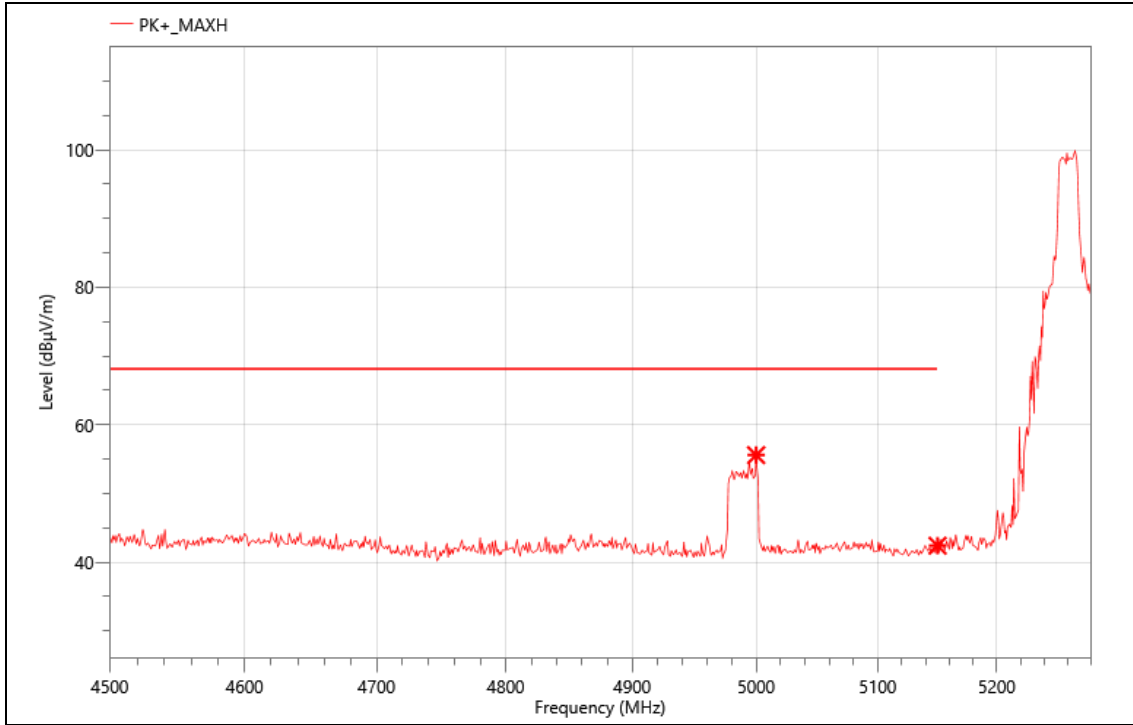
Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5350.000 | 53.35 | -10.03 | 43.32 | 68.20 | 24.88 | PK+ | H |
| 2 | 5439.400 | 55.74 | -10.24 | 45.50 | 68.20 | 22.70 | 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. 802.11a,802.11n HT20,802.11n HT40,802.11ac VHT20,802.11ac VHT40,802.11ac VHT80 ,802.11ax HE20,802.11ax HE40, and 802.11ax HE80 were all tested, and only 802.11ax HE40 was recorded in the report as the worst mode.

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5260MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |

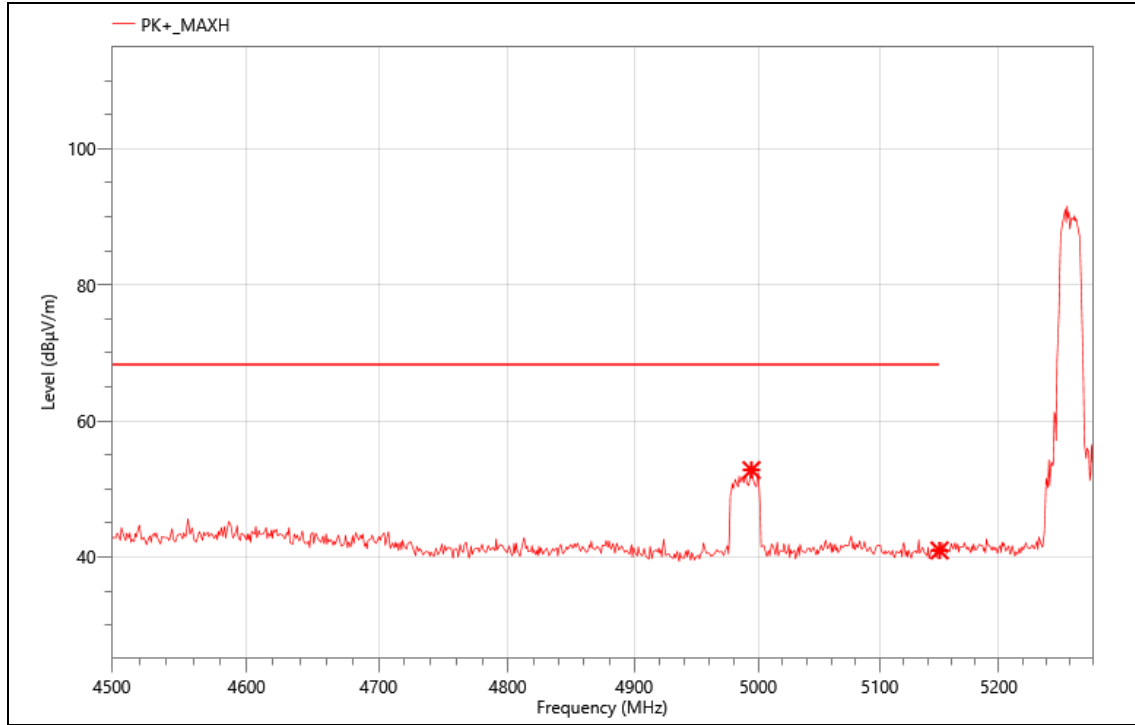


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 4999.980 | 66.97 | -11.38 | 55.59 | 68.20 | 12.61 | PK+ | V |
| 2 | 5150.000 | 53.25 | -10.84 | 42.41 | 68.20 | 25.79 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5260MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |

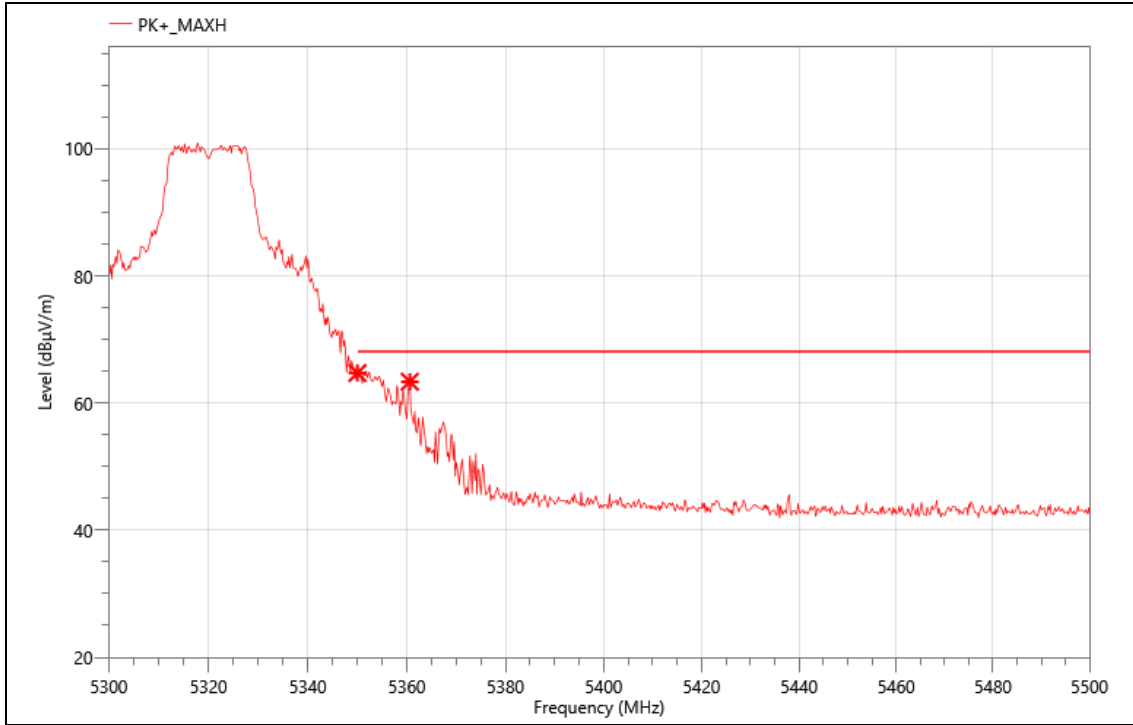


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 4994.520 | 64.20 | -11.42 | 52.78 | 68.20 | 15.42 | PK+ | H |
| 2 | 5150.000 | 51.80 | -10.84 | 40.96 | 68.20 | 27.24 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |

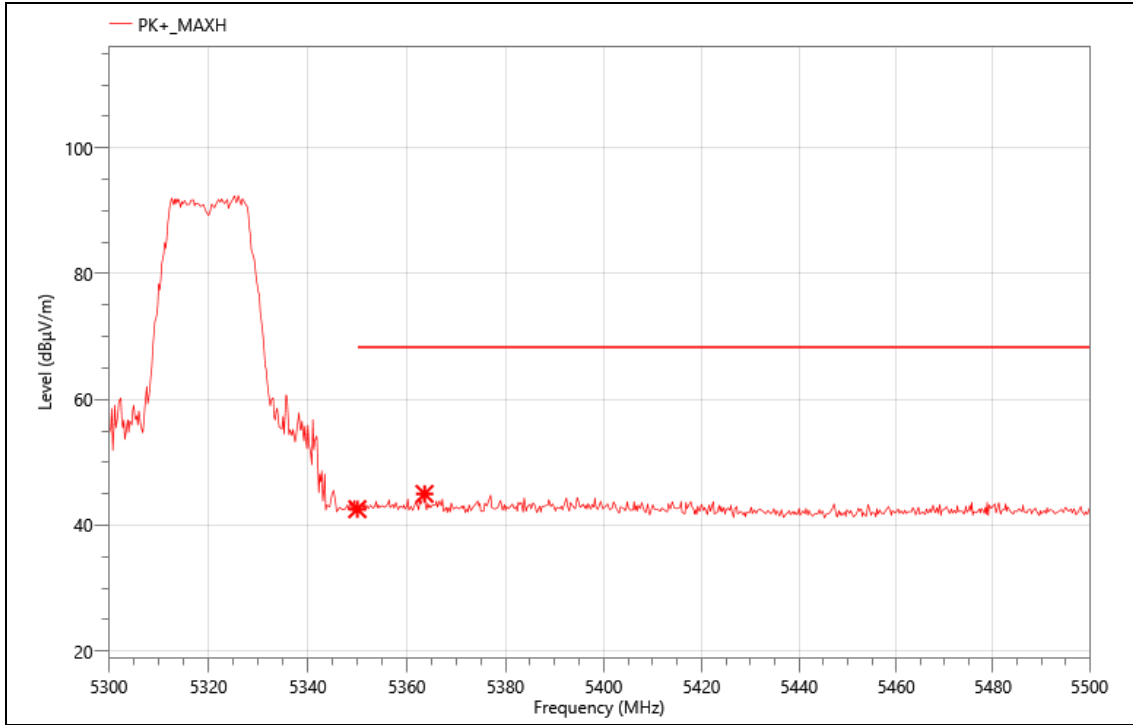


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5350.000 | 74.76 | -10.03 | 64.73 | 68.20 | 3.47 | PK+ | V |
| 2 | 5360.600 | 73.19 | -9.83 | 63.36 | 68.20 | 4.84 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5320MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2023/3/14 |
| T/A/P | 24.3□/54%/101Kpa |



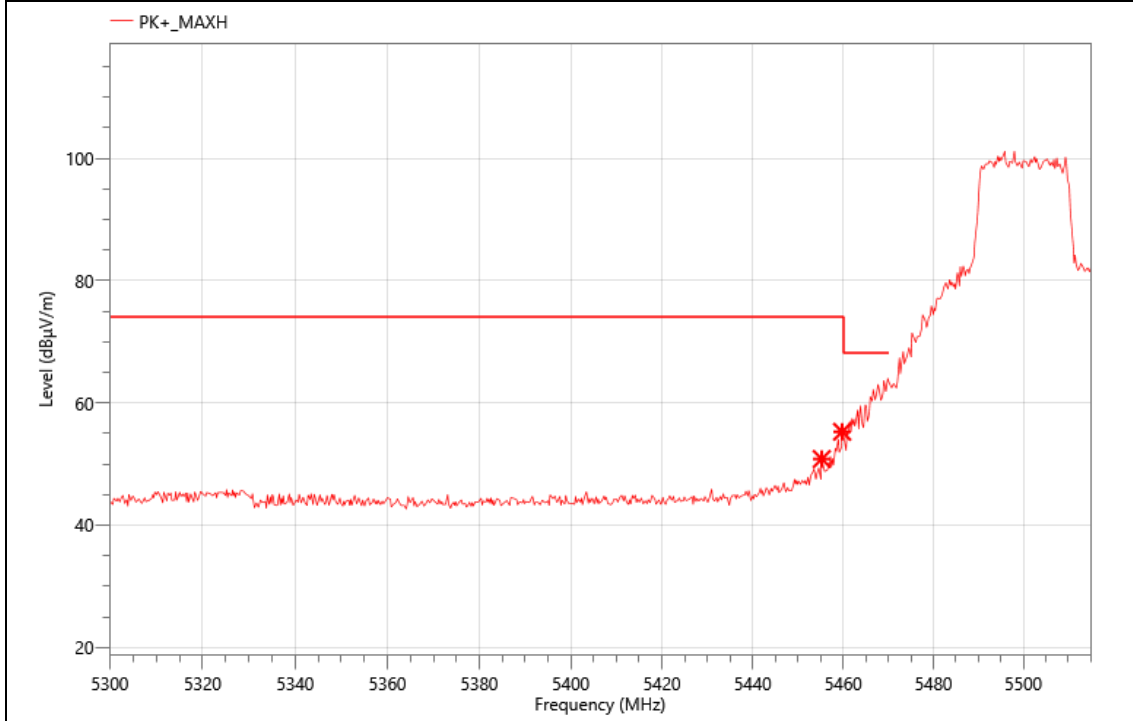
Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5350.000 | 52.59 | -10.03 | 42.56 | 68.20 | 25.64 | PK+ | H |
| 2 | 5363.600 | 54.78 | -9.79 | 44.99 | 68.20 | 23.21 | 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. 802.11a,802.11n HT20,802.11n HT40,802.11ac VHT20,802.11ac VHT40,802.11ac VHT80 ,802.11ax HE20,802.11ax HE40, and 802.11ax HE80 were all tested, and only 802.11a was recorded in the report as the worst mode.

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5500MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/19 |
| T/A/P | 24.5°C/54%/101Kpa |

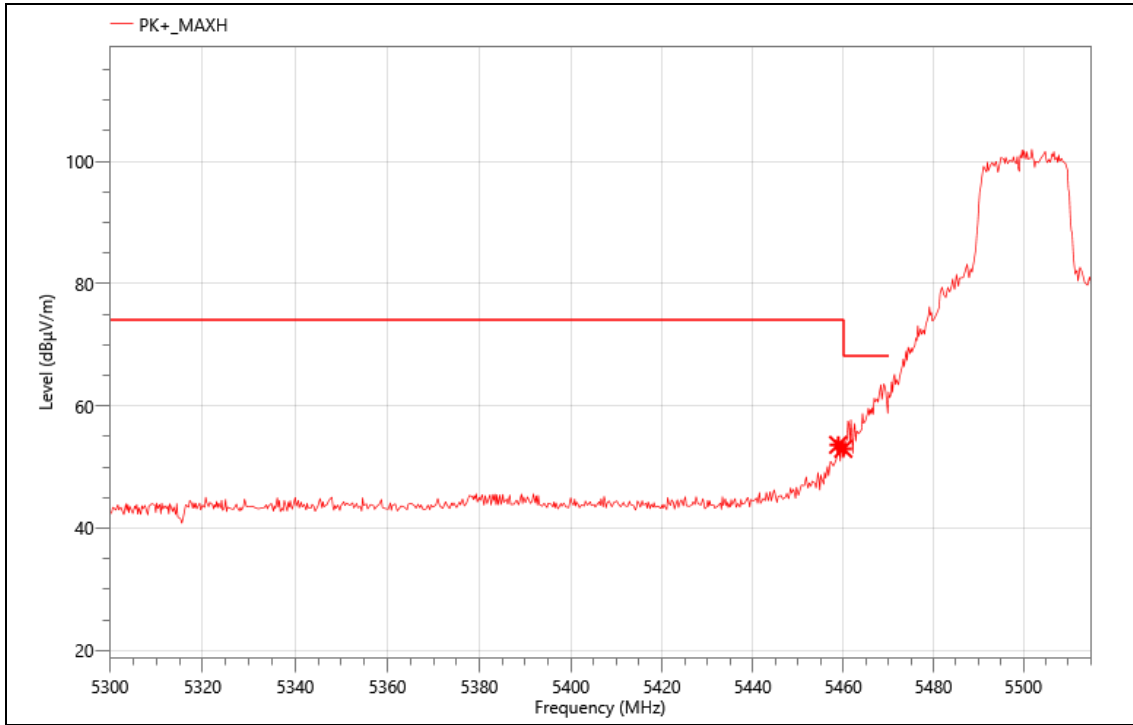


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5455.230 | 61.11 | -10.28 | 50.83 | 74.00 | 23.17 | PK+ | H |
| 2 | 5459.745 | 65.54 | -10.26 | 55.28 | 74.00 | 18.72 | PK+ | H |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5500MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/19 |
| T/A/P | 24.5°C/54%/101Kpa |

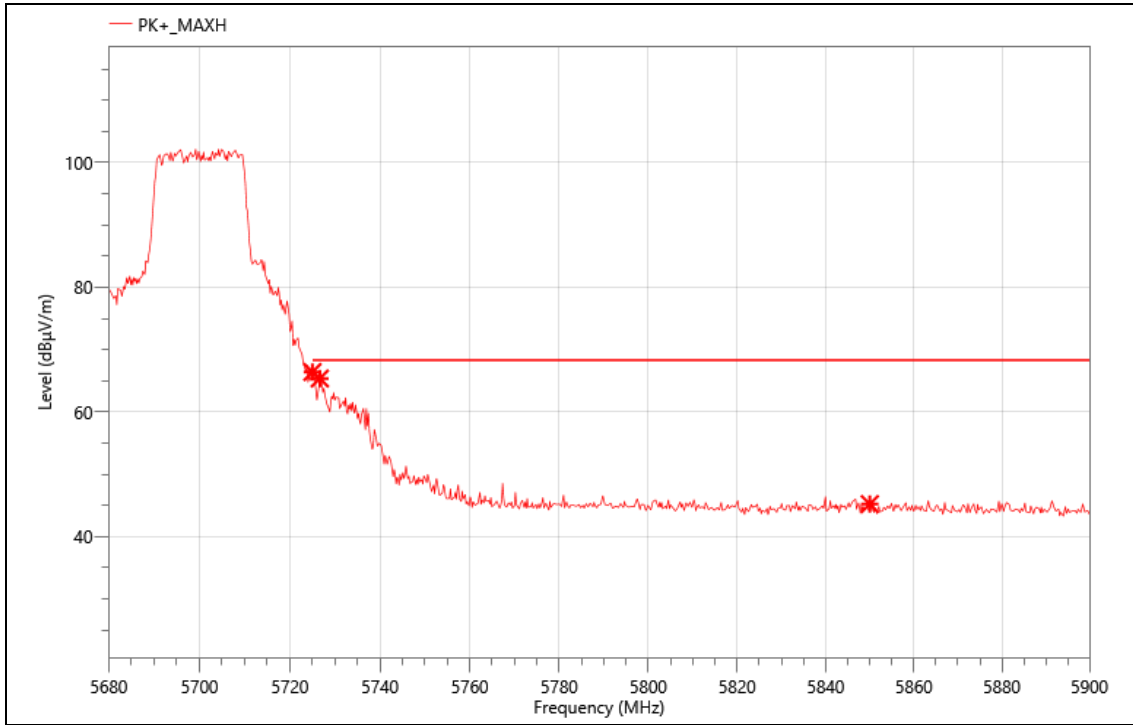


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5458.885 | 63.90 | -10.27 | 53.63 | 74.00 | 20.37 | PK+ | V |
| 2 | 5460.000 | 63.24 | -10.26 | 52.98 | 68.20 | 15.22 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5700MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/19 |
| T/A/P | 24.5°C/54%/101Kpa |

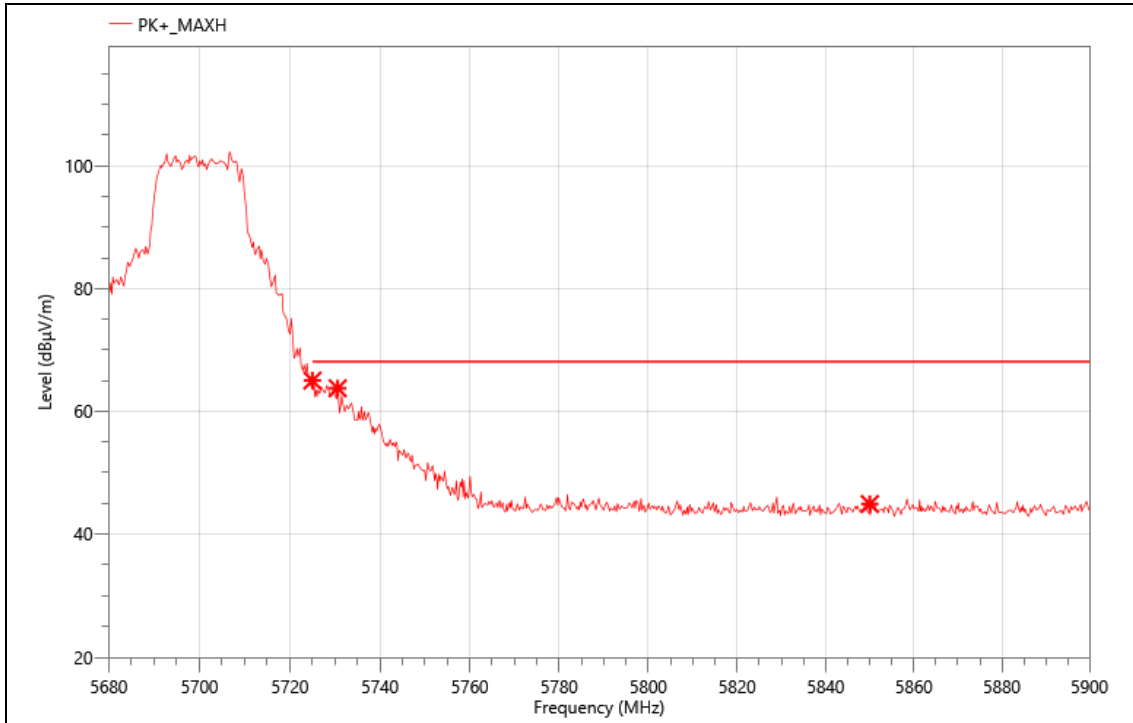


Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5725.000 | 75.70 | -9.29 | 66.41 | 68.20 | 1.79 | PK+ | V |
| 2 | 5726.640 | 75.24 | -9.87 | 65.37 | 68.20 | 2.83 | PK+ | V |
| 3 | 5850.000 | 54.67 | -9.45 | 45.22 | 68.20 | 22.98 | PK+ | V |

Note: [Margin=Limit-Meas.]; [Meas.=Reading+Corr.]

| | |
|--------|------------------------|
| Mode: | 5GWIFI 802.11a 5700MHz |
| Power: | AC 120V/60Hz |
| TE: | Berny |
| Date | 2024/3/19 |
| T/A/P | 24.5°C/54%/101Kpa |



Critical_Freqs

| No. | Freq. (MHz) | Reading (dBµV) | Corr. (dB) | Meas. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Det. | Pol. |
|-----|-------------|----------------|------------|----------------|----------------|-------------|------|------|
| 1 | 5725.000 | 74.29 | -9.29 | 65.00 | 68.20 | 3.20 | PK+ | H |
| 2 | 5730.600 | 73.68 | -9.93 | 63.75 | 68.20 | 4.45 | PK+ | H |
| 3 | 5850.000 | 54.34 | -9.45 | 44.89 | 68.20 | 23.31 | 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. 802.11a,802.11n HT20,802.11n HT40,802.11ac VHT20,802.11ac VHT40,802.11ac VHT80 ,802.11ax HE20,802.11ax HE40, and 802.11ax HE80 were all tested, and only 802.11a was recorded in the report as the worst mode.

Band IV(5.725-5.85 GHz)

Note: The main frequency is too far away from the restricted band and does not require testing.

9. AC POWER LINE CONDUCTED EMISSION

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 |

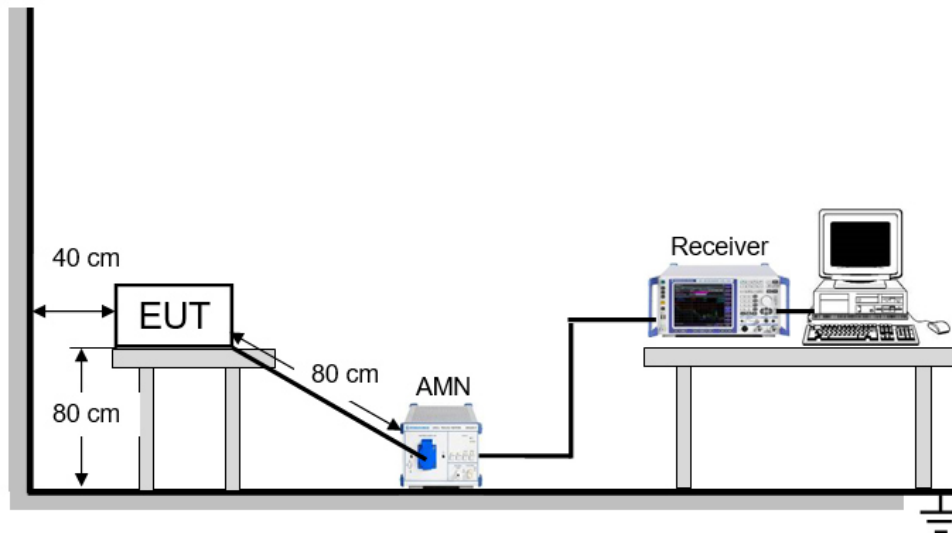
TEST PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

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.

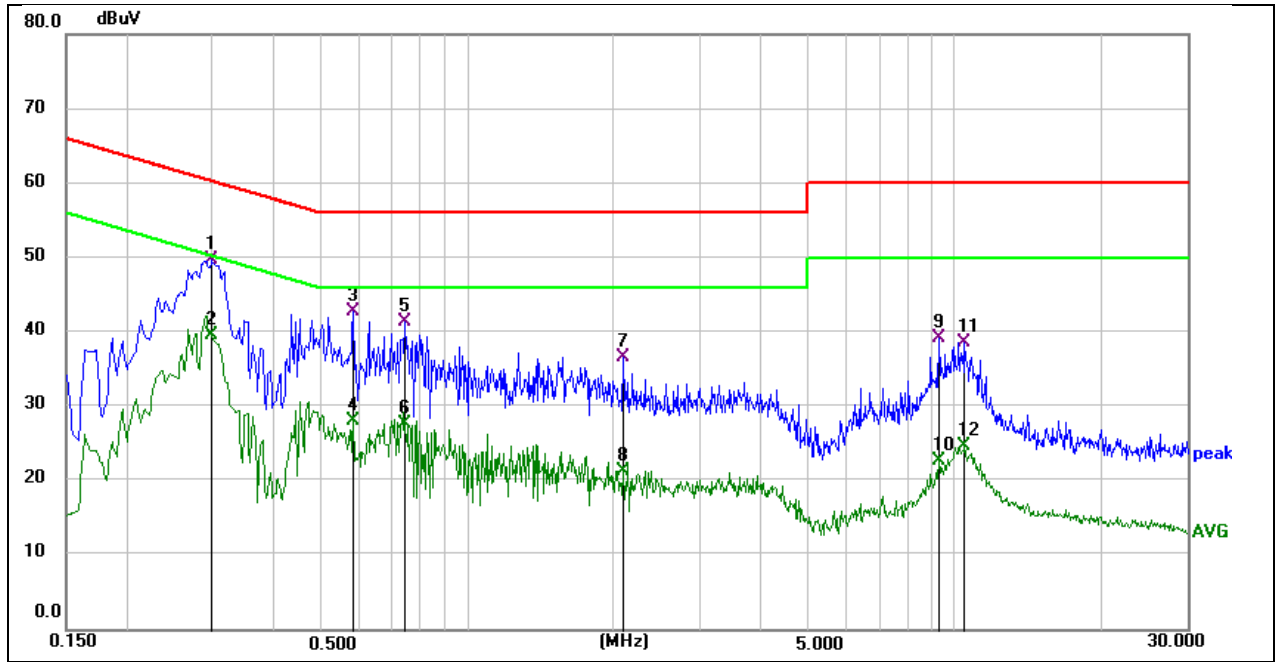
TEST SETUP



TEST ENVIRONMENT

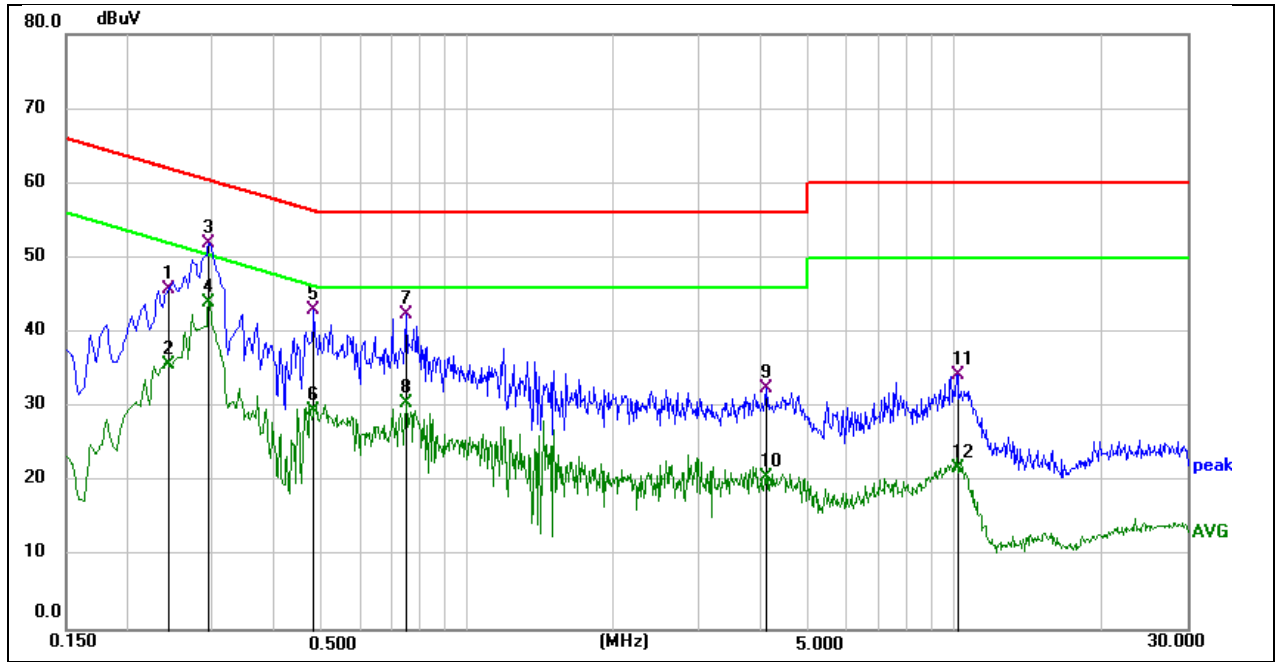
| | | | |
|---------------------|--------|-------------------|-----|
| Temperature | 26°C | Relative Humidity | 54% |
| Atmosphere Pressure | 101kPa | | |

TEST RESULTS



| | |
|-----------|-----------------------|
| Phase: L1 | Mode: 802.11a 5320MHz |
|-----------|-----------------------|

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.2987 | 39.81 | 9.90 | 49.71 | 60.28 | -10.57 | QP |
| 2 | 0.2987 | 29.77 | 9.90 | 39.67 | 50.28 | -10.61 | AVG |
| 3 | 0.5823 | 32.95 | 9.78 | 42.73 | 56.00 | -13.27 | QP |
| 4 | 0.5823 | 18.33 | 9.78 | 28.11 | 46.00 | -17.89 | AVG |
| 5 | 0.7430 | 31.58 | 9.82 | 41.40 | 56.00 | -14.60 | QP |
| 6 | 0.7430 | 17.96 | 9.82 | 27.78 | 46.00 | -18.22 | AVG |
| 7 | 2.0879 | 26.83 | 9.83 | 36.66 | 56.00 | -19.34 | QP |
| 8 | 2.0879 | 11.53 | 9.83 | 21.36 | 46.00 | -24.64 | AVG |
| 9 | 9.2532 | 29.23 | 10.04 | 39.27 | 60.00 | -20.73 | QP |
| 10 | 9.2532 | 12.76 | 10.04 | 22.80 | 50.00 | -27.20 | AVG |
| 11 | 10.4524 | 28.65 | 10.03 | 38.68 | 60.00 | -21.32 | QP |
| 12 | 10.4524 | 14.75 | 10.03 | 24.78 | 50.00 | -25.22 | AVG |



| | |
|----------|-----------------------|
| Phase: N | Mode: 802.11a 5320MHz |
|----------|-----------------------|

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1 | 0.2430 | 35.87 | 9.84 | 45.71 | 61.99 | -16.28 | QP |
| 2 | 0.2430 | 25.80 | 9.84 | 35.64 | 51.99 | -16.35 | AVG |
| 3 | 0.2940 | 42.13 | 9.70 | 51.83 | 60.41 | -8.58 | QP |
| 4 | 0.2940 | 34.35 | 9.70 | 44.05 | 50.41 | -6.36 | AVG |
| 5 | 0.4830 | 33.01 | 9.87 | 42.88 | 56.29 | -13.41 | QP |
| 6 | 0.4830 | 19.53 | 9.87 | 29.40 | 46.29 | -16.89 | AVG |
| 7 | 0.7485 | 32.62 | 9.85 | 42.47 | 56.00 | -13.53 | QP |
| 8 | 0.7485 | 20.63 | 9.85 | 30.48 | 46.00 | -15.52 | AVG |
| 9 | 4.1010 | 22.58 | 9.92 | 32.50 | 56.00 | -23.50 | QP |
| 10 | 4.1010 | 10.59 | 9.92 | 20.51 | 46.00 | -25.49 | AVG |
| 11 | 10.1310 | 24.17 | 10.02 | 34.19 | 60.00 | -25.81 | QP |
| 12 | 10.1310 | 11.65 | 10.02 | 21.67 | 50.00 | -28.33 | AVG |

10. ANTENNA REQUIREMENT

REQUIREMENT

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 §15.407(a)(1)(2)(3)

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced 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 than the maximum gain indicated for any type listed are strictly prohibited for use with this device.</p> |

| | |
|--|---|
| | 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. |
|--|---|

DESCRIPTION

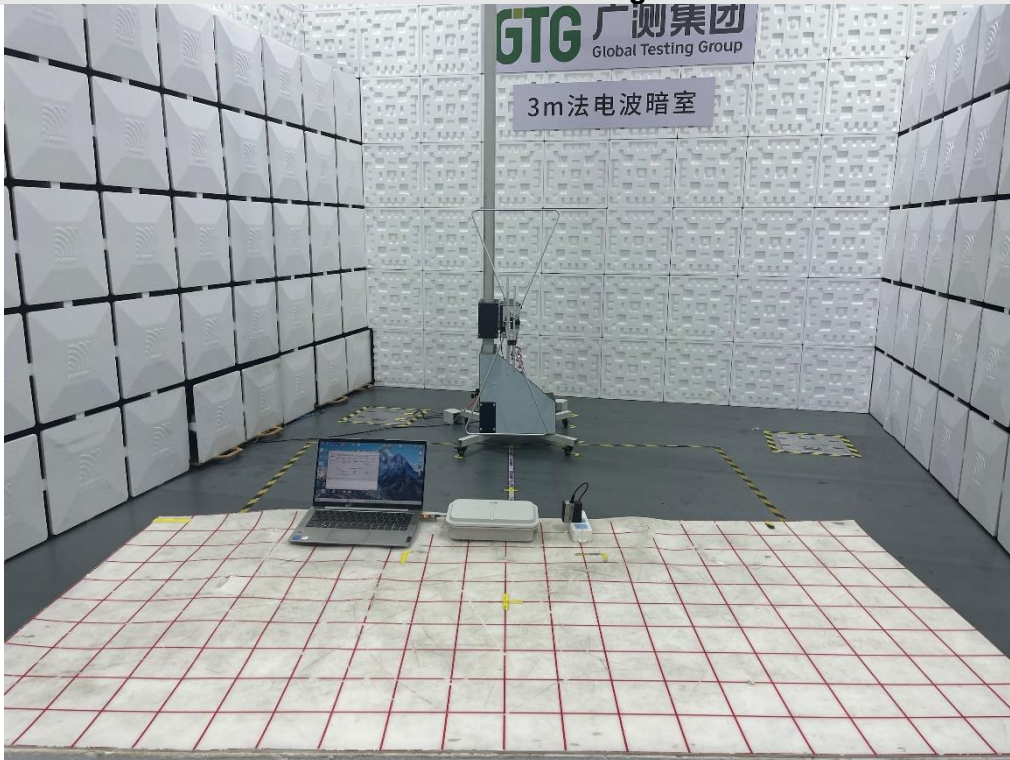
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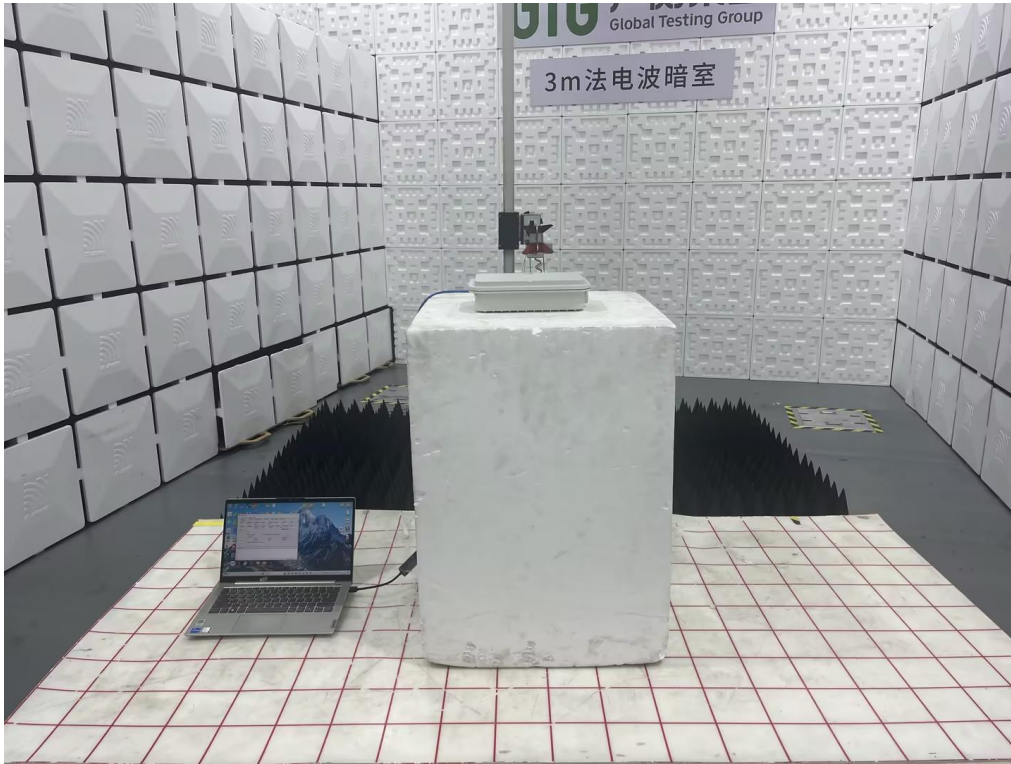
APPENDIX: PHOTOGRAPHS OF TEST CONFIGURATION

AC Power Line Conducted Emission



Radiated Emissions and Band Edge Measurement





END OF REPORT