中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

# TEST REPORT

**Applicant:** **Globalscale Technologies INC**

Address: Building43,lndustrial zone5,Huaidecuigang Fuyong Street,Baoan District

**FCC ID:** **YCJ-GTIRW610N**

**Product Name:** **Wi-Fi6+BLE module**

**Standard(s):** **47 CFR Part 15, Subpart E(15.407)**
**ANSI C63.10-2013**
**KDB 789033 D02 General U-NII Test Procedures New Rules v02r01**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number:** **CR230848801-00CM1**

**Date Of Issue:** **2023/12/14**

**Reviewed By:** **Julie Tan** Julie Tan
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## Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

## Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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# CONTENTS


**DOCUMENT REVISION HISTORY ..... 5**

**1. GENERAL INFORMATION ..... 6**

**1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) ..... 6**

**1.2 DESCRIPTION OF TEST CONFIGURATION ..... 8**

1.2.1 EUT Operation Condition: ..... 8
1.2.2 Support Equipment List and Details ..... 9
1.2.3 Support Cable List and Details ..... 9
1.2.4 Block Diagram of Test Setup ..... 9

**1.3 MEASUREMENT UNCERTAINTY ..... 11**

**2. SUMMARY OF TEST RESULTS ..... 12**

**3. REQUIREMENTS AND TEST PROCEDURES ..... 13**

**3.1 AC LINE CONDUCTED EMISSIONS ..... 13**

3.1.1 Applicable Standard ..... 13
3.1.2 EUT Setup ..... 14
3.1.3 EMI Test Receiver Setup ..... 14
3.1.4 Test Procedure ..... 15
3.1.5 Corrected Amplitude & Margin Calculation ..... 15

**3.2 RADIATION SPURIOUS EMISSIONS ..... 16**

3.2.1 Applicable Standard ..... 16
3.2.2 EUT Setup ..... 17
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup ..... 17
3.2.4 Test Procedure ..... 18
3.2.5 Corrected Amplitude & Margin Calculation ..... 18

**3.3 EMISSION BANDWIDTH ..... 19**

3.3.1 Applicable Standard ..... 19
3.3.2 EUT Setup ..... 19
3.3.3 Test Procedure ..... 19

**3.4 MAXIMUM CONDUCTED OUTPUT POWER ..... 21**

3.4.1 Applicable Standard ..... 21
3.4.2 EUT Setup ..... 21
3.4.3 Test Procedure ..... 21

**3.5 MAXIMUM POWER SPECTRAL DENSITY ..... 22**

3.5.1 Applicable Standard ..... 22
3.5.2 EUT Setup ..... 22
3.5.3 Test Procedure ..... 23

**3.7 DUTY CYCLE ..... 24**

3.7.1 EUT Setup ..... 24
3.7.2 Test Procedure ..... 24

**3.8 ANTENNA REQUIREMENT ..... 24**

3.8.1 Applicable Standard ..... 24
3.8.2 Judgment ..... 24

**4. Test DATA AND RESULTS ..... 25**
**4.1 AC LINE CONDUCTED EMISSIONS ..... 25**
**4.2 RADIATION SPURIOUS EMISSIONS ..... 28**
**4.3 EMISSION BANDWIDTH: ..... 87**
**4.4 MAXIMUM CONDUCTED OUTPUT POWER: ..... 119**
**4.5 MAXIMUM POWER SPECTRAL DENSITY: ..... 122**
**4.6 DUTY CYCLE: ..... 140**
**5. EUT PHOTOGRAPHS ..... 142**
**6. TEST SETUP PHOTOGRAPHS ..... 143**

# DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|---|---|---|---|
| 1.0 | CR230848801-00C | Original Report | 2023/10/13 |
| 2.0 | CR230848801-00CM1 | Added 5720MHz Radiated Spurious Emission test | 2023/12/14 |

# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment under Test (EUT)

### 1.1.1 General:

| | |
|---|---|
| **EUT Name:** | Wi-Fi6+BLE module |
| **EUT Model:** | GTI-RW610N |
| **Operation Frequency:** | 5180-5240 MHz (802.11a/n ht20/ac vht20/ax hew20)<br>5260-5320 MHz (802.11a/n ht20/ac vht20/ax hew20)<br>5500-5720 MHz (802.11a/n ht20/ac vht20/ax hew20)<br>5745-5825 MHz (802.11a/n ht20/ac vht20/ax hew20) |
| **Maximum Average Output Power (Conducted):** | 14.06 dBm in 5150-5250 MHz Band<br>12.64 dBm in 5250-5350 MHz Band<br>15.59 dBm in 5470-5725 MHz Band<br>15.94 dBm in 5725-5850 MHz Band |
| **Modulation Type:** | 802.11a/n/ac/ax:OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM |
| **Rated Input Voltage:** | DC 3.3V |
| **Serial Number:** | 2A8G-2 (For RF Conducted Test)<br>2A8G-4 (For AC line conducted emission and radiated spurious emission Test) |
| **EUT Received Date:** | 2023/8/22 |
| **EUT Received Status:** | Good |

### 1.1.2 Operation Frequency Detail:

**For 802.11a/n ht20/ac vht20/ax hew20:**

| 5150-5250MHz Band | | 5250-5350 MHz Band | | 5470-5725 MHz Band | | 5725-5850MHz Band | |
|---|---|---|---|---|---|---|---|
| **Channel** | **Frequency (MHz)** | **Channel** | **Frequency (MHz)** | **Channel** | **Frequency (MHz)** | **Channel** | **Frequency (MHz)** |
| 36 | 5180 | 52 | 5260 | 100 | 5500 | 149 | 5745 |
| 40 | 5200 | 56 | 5280 | 104 | 5520 | 153 | 5765 |
| 44 | 5220 | 60 | 5300 | 108 | 5540 | 157 | 5785 |
| 48 | 5240 | 64 | 5320 | 112 | 5560 | 161 | 5805 |
| / | / | / | / | 116 | 5580 | 165 | 5825 |
| / | / | / | / | 120 | 5600 | / | / |
| / | / | / | / | 124 | 5620 | / | / |
| / | / | / | / | 128 | 5640 | / | / |
| / | / | / | / | 132 | 5660 | / | / |
| / | / | / | / | 136 | 5680 | / | / |
| / | / | / | / | 140 | 5700 | / | / |
| / | / | / | / | 144 | 5720 | / | / |

Per section 15.31(m), the below channels were performed the test as below:

| Test Channel | Test Frequency (MHz) | | | |
|---|---|---|---|---|
| | 5150-5250MHz Band | 5250-5350 MHz Band | 5470-5725 MHz Band | 5725-5850MHz Band |
| Lowest | 5180 | 5260 | 5500 | 5745 |
| Middle | 5200 | 5280 | 5580 | 5785 |
| Highest | 5240 | 5320 | 5700 | 5825 |
| Additional | / | / | 5720 | / |

Note: Additional channels cross the band 5470-5725MHz and 5725-5850 MHz, Conducted output power/ Power Spectral Density/bandwidth test with the additional channel to compliance with stricter limit of the two bands(5470-5725MHz more stricter).

### 1.1.3 Antenna Information Detail▲:

| Antenna Manufacturer | Antenna Type | input impedance (Ohm) | Frequency Range | Antenna Gain(dBi) |
|---|---|---|---|---|
| SHENZHEN HANGYANG ANTENNA DESIGN CO., LTD. | PIFA | 50 | 5.15~5.25GHz | 0.97 |
| | | | 5.25~5.35GHz | 1.35 |
| | | | 5.47~5.725 GHz | 1.88 |
| | | | 5.725~5.85 GHz | 2.24 |

The Method of §15.203 Compliance:

☒Antenna was permanently attached to the unit.

☐Antenna use a unique type of connector to attach to the EUT.

☐Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

### 1.1.4 Accessory Information:

| Accessory Description | Manufacturer | Model | Parameters |
|---|---|---|---|
| / | / | / | / |

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

| | |
|---|---|
| **EUT Operation Mode:** | The system was configured for testing in Engineering Mode, which was provided by the manufacturer. |
| **Equipment Modifications:** | No |
| **EUT Exercise Software:** | DutApiSisoApApp_RW610.exe |

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲:

**5150-5250 MHz Band:**

| Test Modes | Test Channels | Test Frequency | Data rate | Power Level Setting |
|---|---|---|---|---|
| 802.11a | Lowest | 5180 | 6Mbps | 18 |
| | Middle | 5200 | 6Mbps | 18 |
| | Highest | 5240 | 6Mbps | 18 |
| 802.11n ht20 | Lowest | 5180 | MCS0 | 17 |
| | Middle | 5200 | MCS0 | 17 |
| | Highest | 5240 | MCS0 | 17 |
| 802.11ax hew20 | Lowest | 5180 | MCS0 | 17 |
| | Middle | 5200 | MCS0 | 17 |
| | Highest | 5240 | MCS0 | 17 |

**5250-5350 MHz Band:**

| Test Modes | Test Channels | Test Frequency | Data rate | Power Level Setting |
|---|---|---|---|---|
| 802.11a | Lowest | 5260 | 6Mbps | 18 |
| | Middle | 5280 | 6Mbps | 18 |
| | Highest | 5320 | 6Mbps | 18 |
| 802.11n ht20 | Lowest | 5260 | MCS0 | 18 |
| | Middle | 5280 | MCS0 | 18 |
| | Highest | 5320 | MCS0 | 18 |
| 802.11ax hew20 | Lowest | 5260 | MCS0 | 18 |
| | Middle | 5280 | MCS0 | 18 |
| | Highest | 5320 | MCS0 | 18 |

**5470-5725 MHz Band:**

| Test Modes | Test Channels | Test Frequency | Data rate | Power Level Setting |
|---|---|---|---|---|
| 802.11a | Lowest | 5500 | 6Mbps | 18 |
| | Middle | 5580 | 6Mbps | 18 |
| | Highest | 5700 | 6Mbps | 18 |
| | Cross | 5720 | 6Mbps | 18 |
| 802.11n ht20 | Lowest | 5500 | MCS0 | 18 |
| | Middle | 5580 | MCS0 | 18 |
| | Highest | 5700 | MCS0 | 18 |
| | Cross | 5720 | MCS0 | 18 |
| 802.11ax hew20 | Lowest | 5500 | MCS0 | 16 |
| | Middle | 5580 | MCS0 | 16 |
| | Highest | 5700 | MCS0 | 16 |
| | Cross | 5720 | MCS0 | 16 |

**5725-5850 MHz Band:**

| Test Modes | Test Channels | Test Frequency | Data rate | Power Level Setting |
|---|---|---|---|---|
| 802.11a | Lowest | 5745 | 6Mbps | 18 |
| | Middle | 5785 | 6Mbps | 18 |
| | Highest | 5825 | 6Mbps | 18 |
| 802.11n ht20 | Lowest | 5745 | MCS0 | 18 |
| | Middle | 5785 | MCS0 | 18 |
| | Highest | 5825 | MCS0 | 18 |
| 802.11ax hew20 | Lowest | 5745 | MCS0 | 18 |
| | Middle | 5785 | MCS0 | 18 |
| | Highest | 5825 | MCS0 | 18 |

Note:
The system support 802.11a/n ht20/ac vht20/ax hew20, the ac vht20 were reduced since the identical parameters with 802.11n ht20.
The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.

### 1.2.2 Support Equipment List and Details

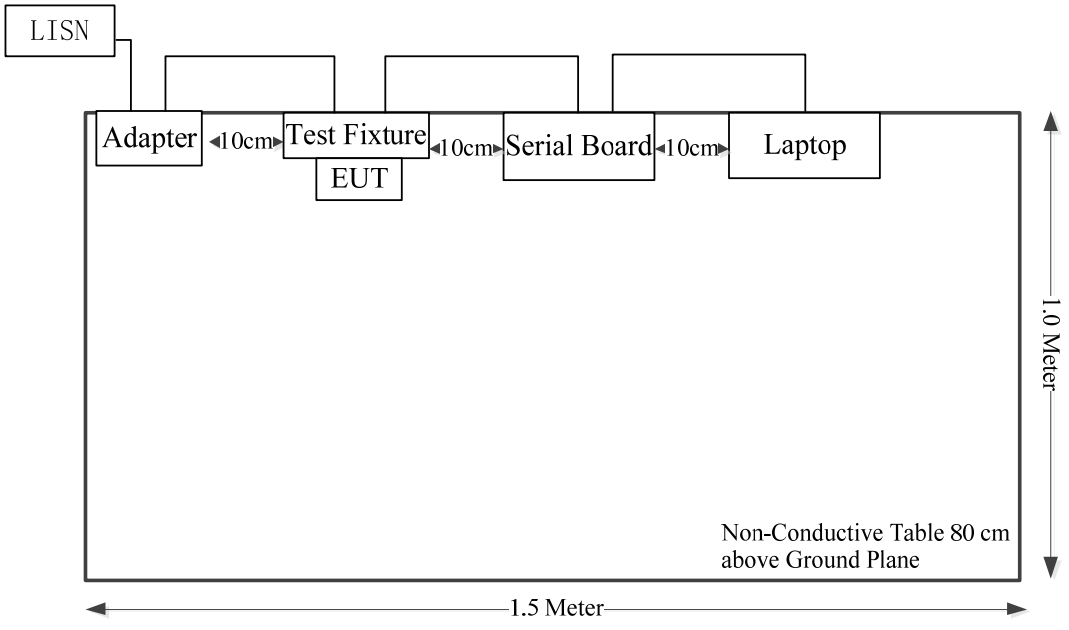
| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Qihoo | Adapter | SK05T-2400200C | ZB1911120300180 |
| Waveshare | Debug board | Serial | EMZBCB220330011 |
| Lenovo | Laptop | E440 | 00331-10000-00001-AA380_01 |

### 1.2.3 Support Cable List and Details

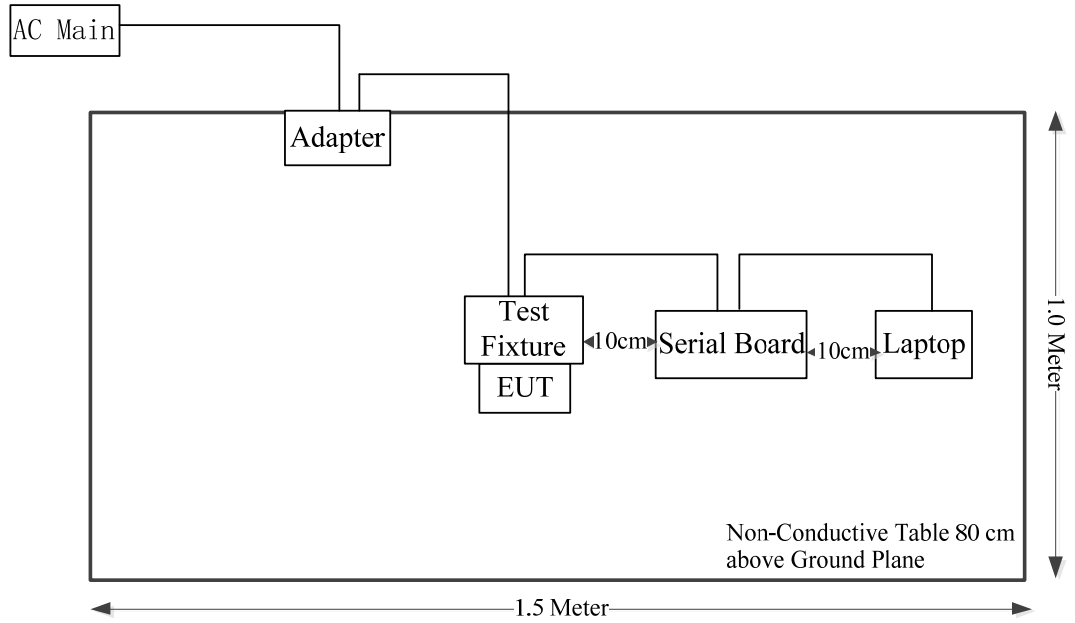
| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | To |
|---|---|---|---|---|---|
| Serial Cable | No | No | 1.2 | Serial Board | EUT |
| USB Cable | No | No | 1.5 | Laptop | Serial Board |
| DC Cable | No | No | 0.8 | Adapter | EUT |

### 1.2.4 Block Diagram of Test Setup

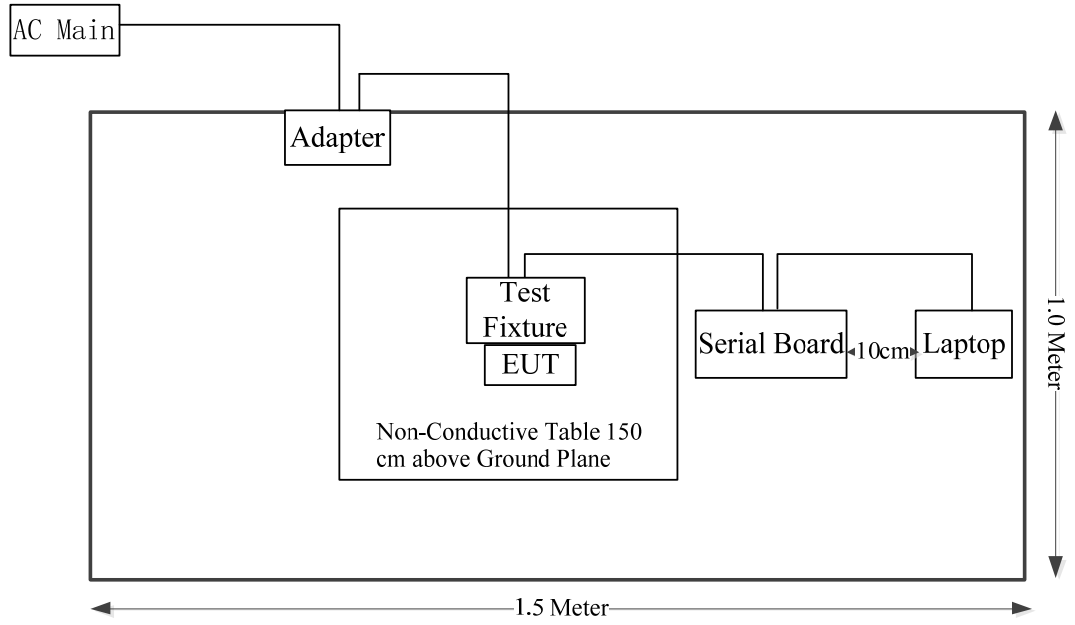
AC Line Conducted Emissions:



Radiated Spurious Emissions:
Below 1GHz:




Above 1GHz:



## 1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

| Parameter | Measurement Uncertainty |
|---|---|
| Occupied Channel Bandwidth | ±5 % |
| RF output power, conducted | ±0.61dB |
| Power Spectral Density, conducted | ±0.61 dB |
| Unwanted Emissions, radiated | 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB |
| Unwanted Emissions, conducted | ±1.26 dB |
| Temperature | ±1℃ |
| Humidity | ±5% |
| DC and low frequency voltages | ±0.4% |
| Duty Cycle | 1% |
| AC Power Lines Conducted Emission | 2.8 dB (150 kHz to 30 MHz) |

# 2. SUMMARY OF TEST RESULTS

| Standard(s) Section | Test Items | Result |
|---|---|---|
| §15.207(a) | AC line conducted emissions | Compliant |
| FCC§15.205& §15.209 &§15.407(b) | Radiated Spurious Emissions | Compliant |
| FCC§15.407(a) (e) | Emission Bandwidth | Compliant |
| FCC§15.407(a) | Maximum Conducted Output Power | Compliant |
| FCC§15.407 (a) | Power Spectral Density | Compliant |
| §15.203 | Antenna Requirement | Compliant |

# 3. REQUIREMENTS AND TEST PROCEDURES

## 3.1 AC Line Conducted Emissions

### 3.1.1 Applicable Standard

FCC§15.207(a).

(a) 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 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| | Conducted limit (dBμV) | |
|---|---|---|
| Frequency of emission (MHz) | 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.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

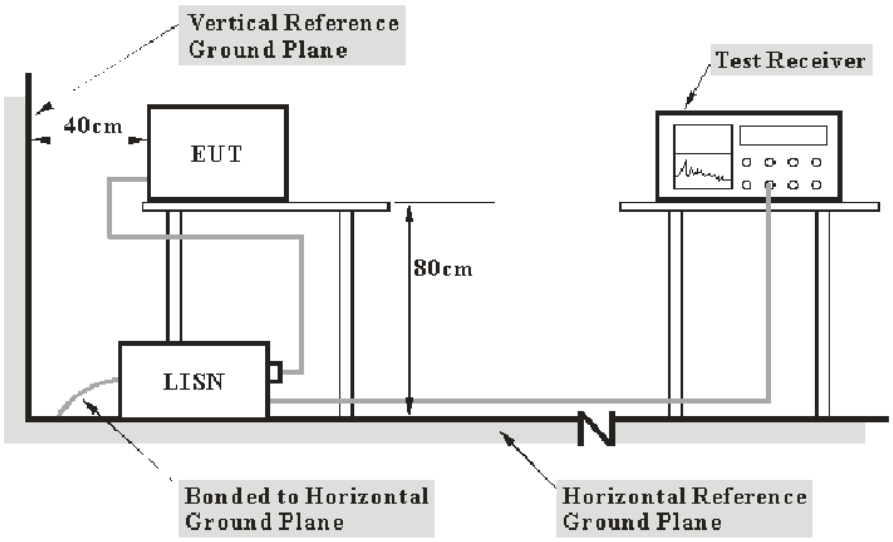
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtainig their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### 3.1.2 EUT Setup




Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

### 3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|---|---|
| 150 kHz – 30 MHz | 9 kHz |

### 3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

### 3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor
Factor = attenuation caused by cable loss + voltage division factor of AMN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

## 3.2 Radiation Spurious Emissions

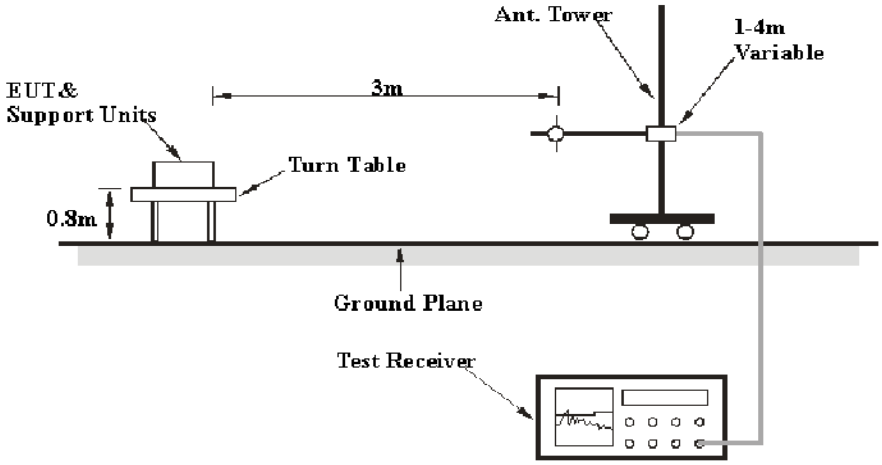
### 3.2.1 Applicable Standard

FCC §15.407 (b);

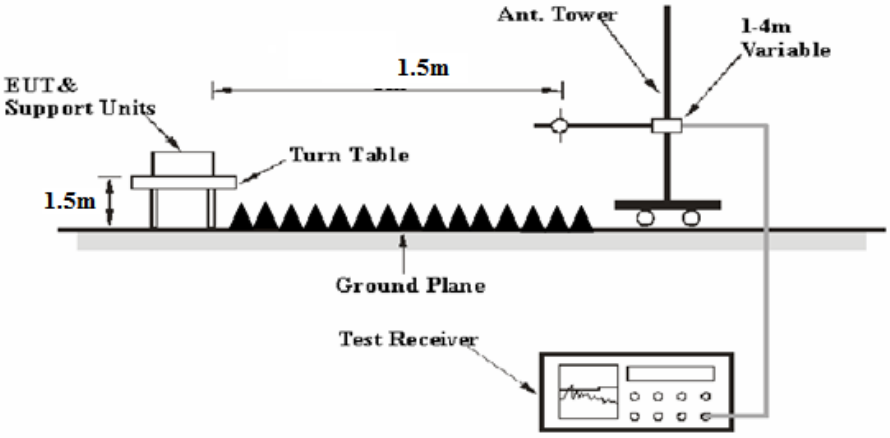
*Undesirable emission limits.* Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of – 27 dBm/MHz.
(4) For transmitters operating solely in the 5.725-5.850 GHz band:
(i) All emissions shall be limited to a level of – 27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.
(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

### 3.2.2 EUT Setup

**Below 1GHz:**




**1-40 GHz:**




The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

### 3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

30MHz-1000MHz:

| Measurement | RBW | Video B/W | IF B/W |
|---|---|---|---|
| QP | 120 kHz | 300 kHz | 120kHz |

1GHz- 40GHz:

| Measurement | Duty cycle | RBW | Video B/W |
|---|---|---|---|
| PK | Any | 1MHz | 3 MHz |
| AV | >98% | 1MHz | 10 Hz |
| | <98% | 1MHz | ≥1/T |

Note: T is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

### 3.2.4 Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

All emissions under the average limit and under the noise floor have not recorded in the report.

### 3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 30MHz-1GHz:
Result = Reading + Factor

For 1GHz-40GHz
Result = Reading + Factor-Distance extrapolation Factor

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

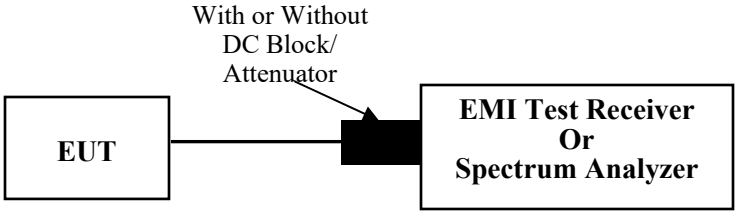
## 3.3 Emission Bandwidth

### 3.3.1 Applicable Standard

FCC §15.407 (a),(h)
(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)
Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 3.3.2 EUT Setup




### 3.3.3 Test Procedure

**26dB Emission Bandwidth:**

According to ANSI C63.10-2013 Section 12.4.1

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = peak.
d) Trace mode = max hold
e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

**6 dB emission bandwidth:**

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

**99% Occupied Bandwidth:**

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
The following procedure shall be used for measuring 99% power bandwidth:
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
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.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) 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).

## 3.4 Maximum Conducted Output Power

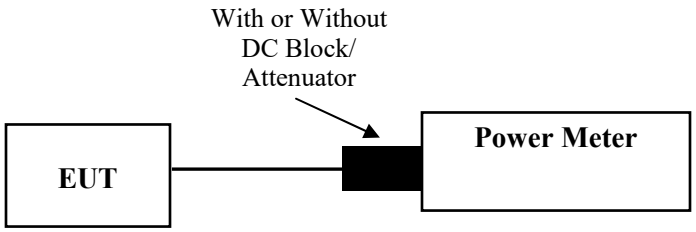
### 3.4.1 Applicable Standard

FCC §15.407(a) (1)(iv)
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

FCC §15.407(a) (2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### 3.4.2 EUT Setup




### 3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1

Method PM-G is 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. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

## 3.5 Maximum Power Spectral Density

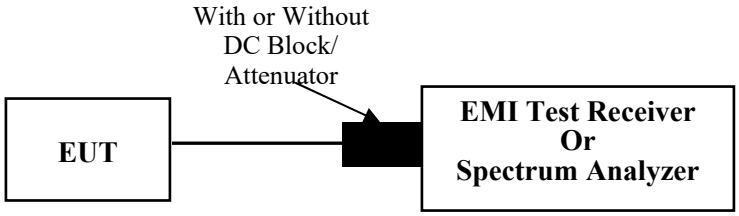
### 3.5.1 Applicable Standard

FCC §15.407(a) (1)(iv)
For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

FCC §15.407(a) (2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. 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.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

### 3.5.2 EUT Setup



### 3.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

**Duty cycle ≥98%**

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

**Duty cycle <98%, duty cycle variations are less than ±2%**

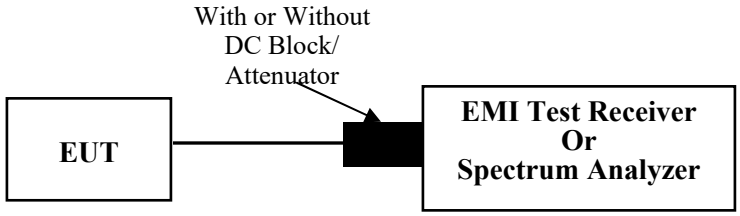
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

**Duty cycle <98%, duty cycle variations exceed ±2%**

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

## 3.7 Duty Cycle

### 3.7.1 EUT Setup




### 3.7.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

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:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T 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 the duty cycle shall not be used if T ≤ 16.7 μs.)

## 3.8 Antenna Requirement

### 3.8.1 Applicable Standard

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 3.8.2 Judgment

**Result: Compliant.** Please refer to the Antenna Information detail in Section 1.

# 4. Test DATA AND RESULTS

## 4.1 AC Line Conducted Emissions

| | | | |
|---|---|---|---|
| Serial Number: | 2A8G-4 | Test Date: | 2023/9/26 |
| Test Site: | CE | Test Mode: | Transmitting<br>maximum output power mode<br>(802.11ax 5785MHz was tested) |
| Tester: | David Huang | Test Result: | Pass |

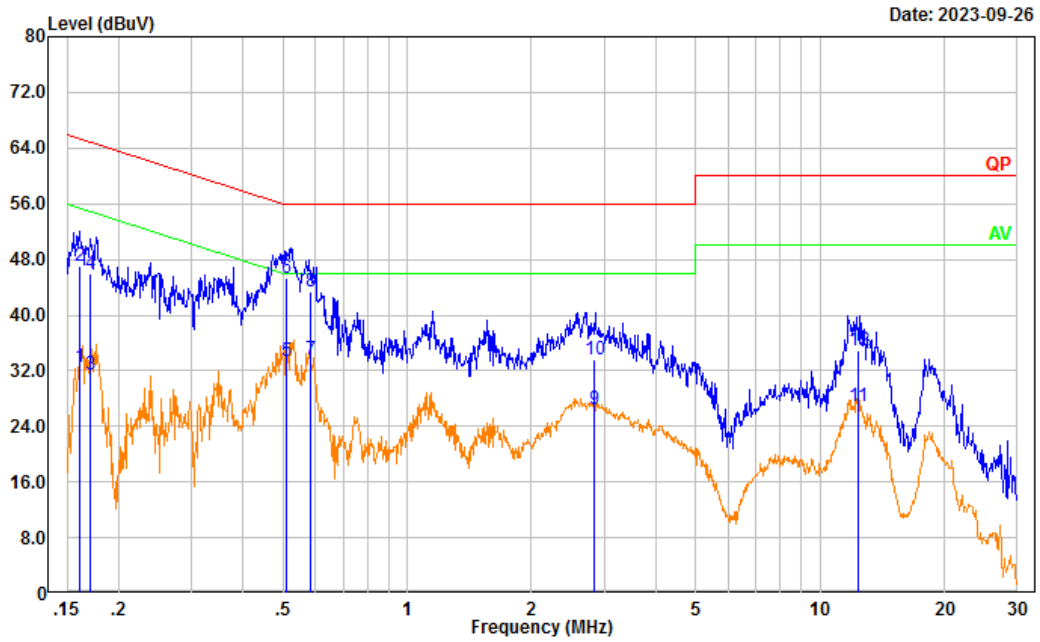
| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.5 | Relative Humidity: (%) | 54 | ATM Pressure: (kPa) | 100.1 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | LISN | ENV216 | 101134 | 2023/3/31 | 2024/3/30 |
| R&S | EMI Test Receiver | ESR3 | 102726 | 2023/3/31 | 2024/3/30 |
| MICRO-COAX | Coaxial Cable | UTIFLEX | C-0200-01 | 2023/8/6 | 2024/8/5 |
| Audix | Test Software | E3 | 190306 (V9) | N/A | N/A |

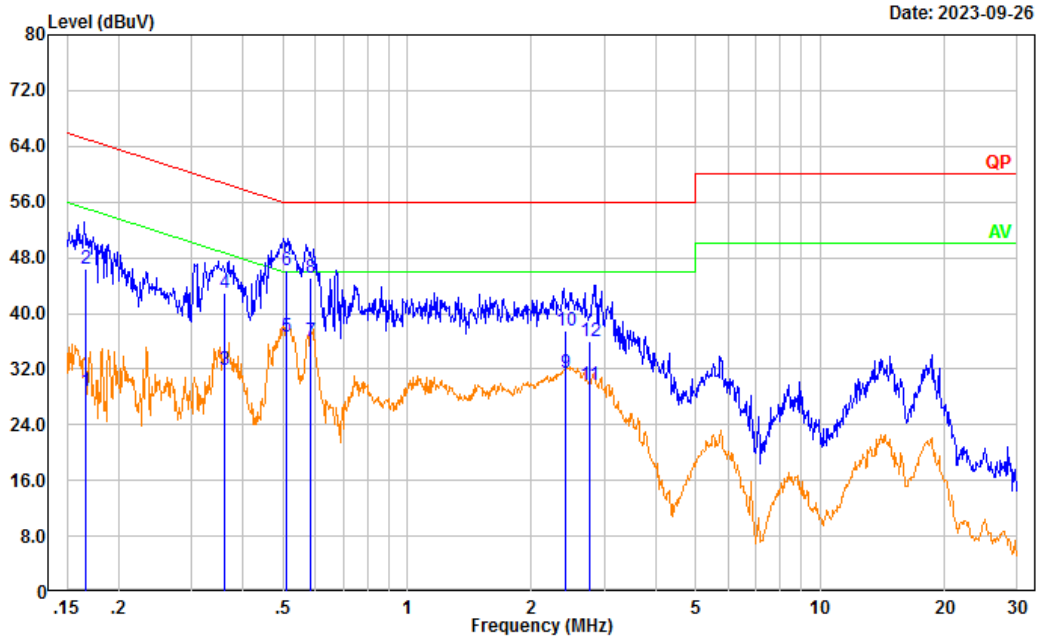
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Project No.: CR230848801-RF
Tester: David Huang
Port: Line
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.161 | 22.97 | 9.61 | 32.58 | 55.40 | 22.82 | Average |
| 2 | 0.161 | 37.46 | 9.61 | 47.07 | 65.40 | 18.33 | QP |
| 3 | 0.171 | 21.73 | 9.61 | 31.34 | 54.93 | 23.59 | Average |
| 4 | 0.171 | 36.39 | 9.61 | 46.00 | 64.93 | 18.93 | QP |
| 5 | 0.511 | 23.88 | 9.61 | 33.49 | 46.00 | 12.51 | Average |
| 6 | 0.511 | 35.78 | 9.61 | 45.39 | 56.00 | 10.61 | QP |
| 7 | 0.585 | 24.09 | 9.62 | 33.71 | 46.00 | 12.29 | Average |
| 8 | 0.585 | 33.68 | 9.62 | 43.30 | 56.00 | 12.70 | QP |
| 9 | 2.848 | 16.76 | 9.65 | 26.41 | 46.00 | 19.59 | Average |
| 10 | 2.848 | 23.85 | 9.65 | 33.50 | 56.00 | 22.50 | QP |
| 11 | 12.341 | 17.24 | 9.67 | 26.91 | 50.00 | 23.09 | Average |
| 12 | 12.341 | 25.15 | 9.67 | 34.82 | 60.00 | 25.18 | QP |

Project No.: CR230848801-RF
Tester: David Huang
Port: neutral
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB) | Result (dBµV) | Limit (dBµV) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 0.166 | 19.15 | 9.61 | 28.76 | 55.14 | 26.38 | Average |
| 2 | 0.166 | 36.68 | 9.61 | 46.29 | 65.14 | 18.85 | QP |
| 3 | 0.361 | 22.33 | 9.61 | 31.94 | 48.70 | 16.76 | Average |
| 4 | 0.361 | 33.23 | 9.61 | 42.84 | 58.70 | 15.86 | QP |
| 5 | 0.511 | 27.08 | 9.61 | 36.69 | 46.00 | 9.31 | Average |
| 6 | 0.511 | 36.62 | 9.61 | 46.23 | 56.00 | 9.77 | QP |
| 7 | 0.582 | 26.42 | 9.62 | 36.04 | 46.00 | 9.96 | Average |
| 8 | 0.582 | 35.49 | 9.62 | 45.11 | 56.00 | 10.89 | QP |
| 9 | 2.414 | 21.76 | 9.64 | 31.40 | 46.00 | 14.60 | Average |
| 10 | 2.414 | 27.81 | 9.64 | 37.45 | 56.00 | 18.55 | QP |
| 11 | 2.766 | 20.02 | 9.65 | 29.67 | 46.00 | 16.33 | Average |
| 12 | 2.766 | 26.34 | 9.65 | 35.99 | 56.00 | 20.01 | QP |

## 4.2 Radiation Spurious Emissions

| | | | |
|---|---|---|---|
| Serial Number: | 2A8G-4 | Test Date: | 2023/9/9~2023/12/12 |
| Test Site: | 966-2,966-1 | Test Mode: | Transmitting |
| Tester: | Jeff Luo, Tao Zhu, Mack Huang | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.1~26.7 | Relative Humidity: (%) | 58~68 | ATM Pressure: (kPa) | 100.1~101.3 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Sunol Sciences | Antenna | JB6 | A082520-6 | 2023/9/18 | 2026/9/17 |
| R&S | EMI Test Receiver | ESR3 | 102724 | 2023/3/31 | 2024/3/30 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0470-02 | 2023/7/16 | 2024/7/15 |
| TIMES MICROWAVE | Coaxial Cable | LMR-600-UltraFlex | C-0780-01 | 2023/7/16 | 2024/7/15 |
| Sonoma | Amplifier | 310N | 186165 | 2023/7/16 | 2024/7/15 |
| ETS-Lindgren | Horn Antenna | 3115 | 9912-5985 | 2020/10/13 | 2023/10/12 |
| AH | Double Ridge Guide Horn Antenna | SAS-571 | 1394 | 2023/2/22 | 2026/2/21 |
| R&S | Spectrum Analyzer | FSV40 | 101591 | 2023/3/31 | 2024/3/30 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-1200-70U300 | 217423-008 | 2023/8/6 | 2024/8/5 |
| MICRO-COAX | Coaxial Cable | UFA210A-1-2362-300300 | 235780-001 | 2023/8/6 | 2024/8/5 |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2022/11/9 | 2023/11/8 |
| Mini | Pre-amplifier | ZVA-183-S+ | 5969001149 | 2023/11/8 | 2024/11/7 |
| Audix | Test Software | E3 | 201021 (V9) | N/A | N/A |
| PASTERNACK | Horn Antenna | PE9852/2F-20 | 112002 | 2021/2/5 | 2024/2/4 |
| Quinstar | Preamplifier | QLW-18405536-JO | 15964001005 | 2022/9/16 | 2023/9/15 |
| Quinstar | Preamplifier | QLW-18405536-JO | 15964001005 | 2023/9/15 | 2024/9/14 |
| MICRO-COAX | Coaxial Cable | UFB142A-1-2362-200200 | 235772-001 | 2023/8/6 | 2024/8/5 |
| E-Microwave | Band Rejection Filter | 5150-5850MHz | OE01902423 | 2023/8/6 | 2024/8/5 |
| Mini Circuits | High Pass Filter | VHF-6010+ | 31119 | 2023/8/6 | 2024/8/5 |
| PASTERNACK | Horn Antenna | PE9850/2F-20 | 072001 | 2021/2/5 | 2024/2/4 |

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

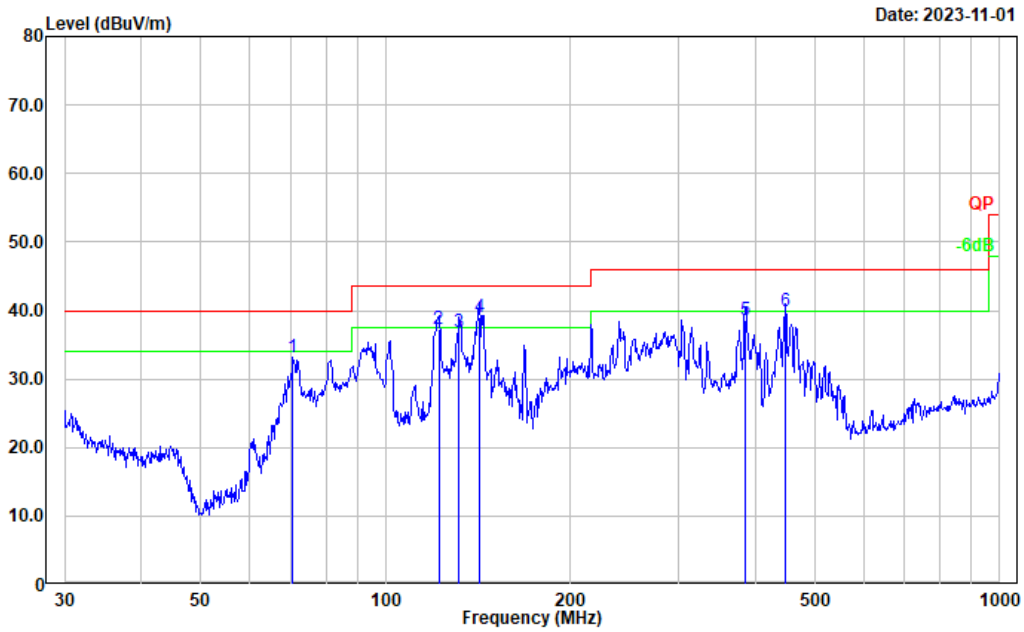
**Test Data:**

Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

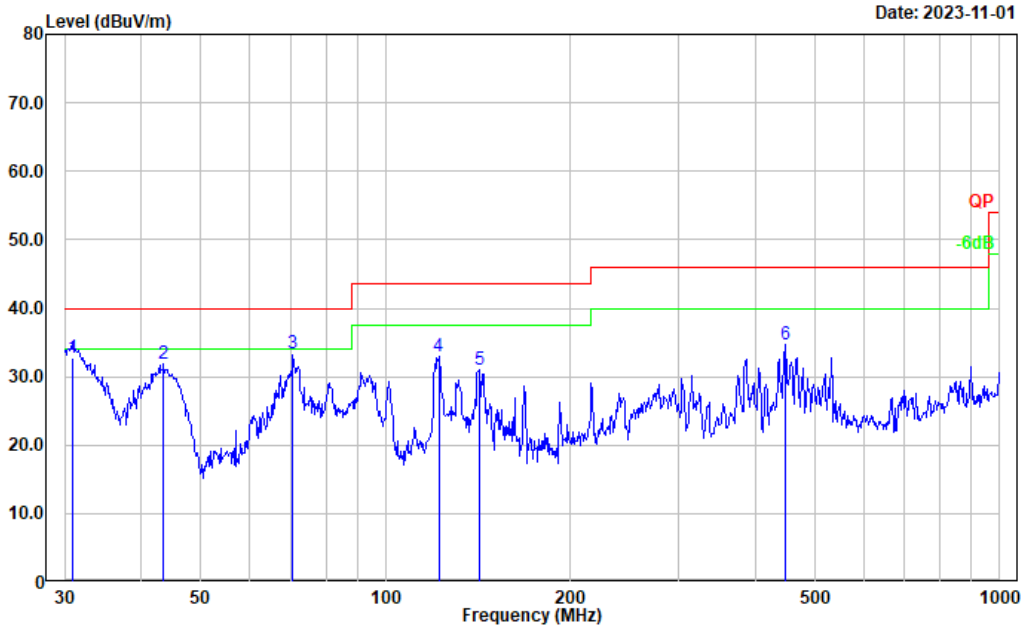
**1) 30MHz-1GHz** (maximum output power mode)
5150-5250MHz(802.11a mode): Low channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 70.584 | 49.85 | -16.62 | 33.23 | 40.00 | 6.77 | Peak |
| 2 | 121.976 | 48.64 | -11.42 | 37.22 | 43.50 | 6.28 | QP |
| 3 | 131.758 | 48.33 | -11.37 | 36.96 | 43.50 | 6.54 | QP |
| 4 | 142.324 | 50.95 | -11.82 | 39.13 | 43.50 | 4.37 | QP |
| 5 | 385.281 | 47.63 | -9.00 | 38.63 | 46.00 | 7.37 | QP |
| 6 | 446.414 | 46.98 | -7.08 | 39.90 | 46.00 | 6.10 | QP |

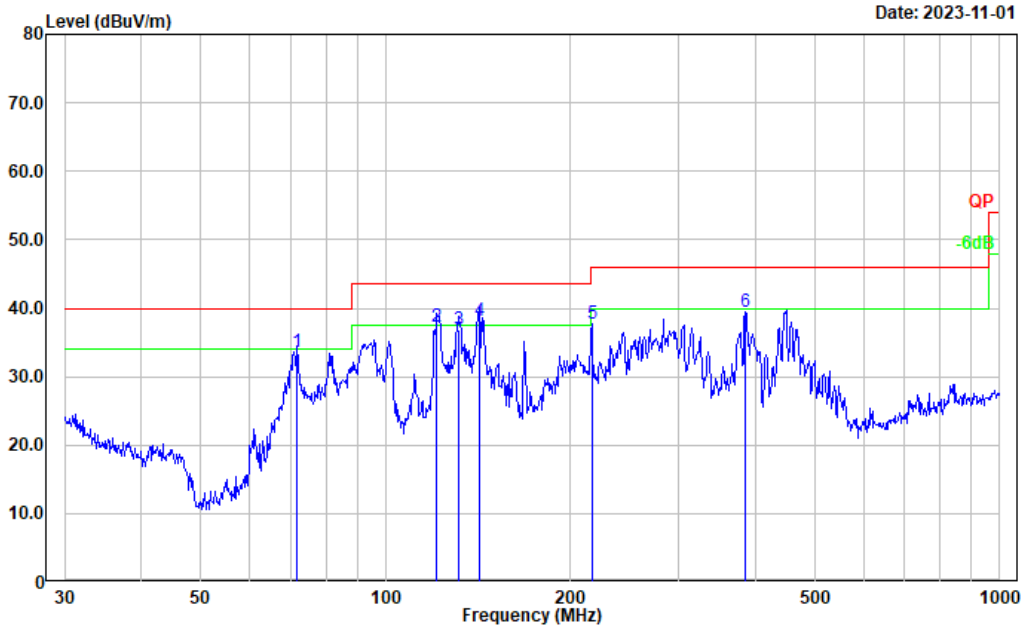
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.853 | 37.28 | -4.45 | 32.83 | 40.00 | 7.17 | QP |
| 2 | 43.506 | 45.17 | -13.40 | 31.77 | 40.00 | 8.23 | Peak |
| 3 | 70.584 | 49.90 | -16.62 | 33.28 | 40.00 | 6.72 | Peak |
| 4 | 121.976 | 44.32 | -11.42 | 32.90 | 43.50 | 10.60 | Peak |
| 5 | 142.324 | 42.91 | -11.82 | 31.09 | 43.50 | 12.41 | Peak |
| 6 | 447.982 | 41.60 | -7.02 | 34.58 | 46.00 | 11.42 | Peak |

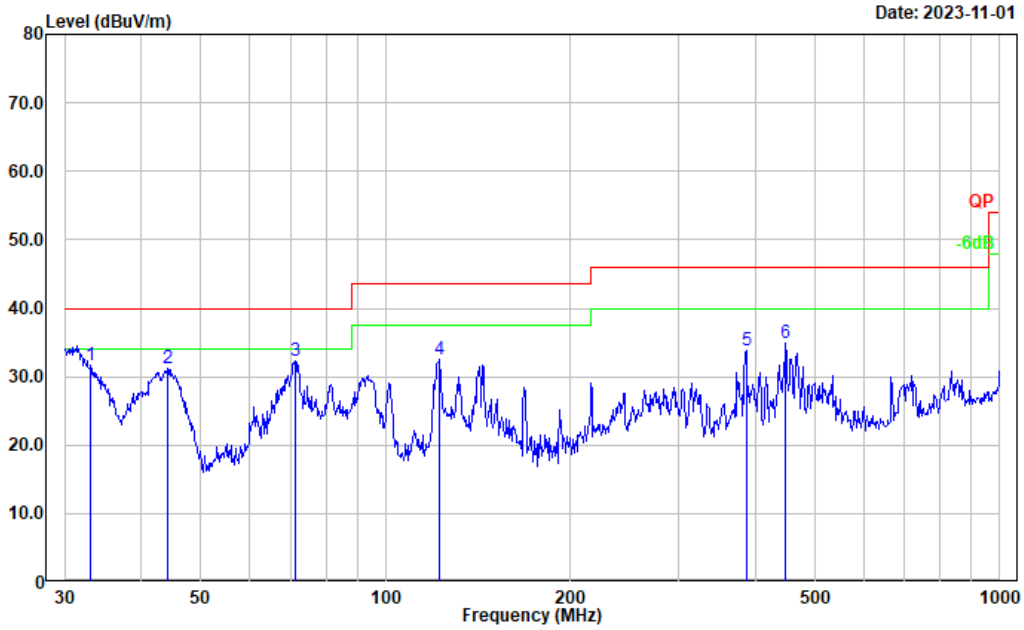
5150-5250MHz(802.11a mode): Middle channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 71.832 | 50.31 | -16.74 | 33.57 | 40.00 | 6.43 | QP |
| 2 | 121.123 | 48.71 | -11.44 | 37.27 | 43.50 | 6.23 | QP |
| 3 | 131.297 | 48.09 | -11.34 | 36.75 | 43.50 | 6.75 | QP |
| 4 | 141.826 | 50.00 | -11.82 | 38.18 | 43.50 | 5.32 | QP |
| 5 | 216.783 | 50.41 | -12.72 | 37.69 | 46.00 | 8.31 | Peak |
| 6 | 385.281 | 48.48 | -9.00 | 39.48 | 46.00 | 6.52 | Peak |

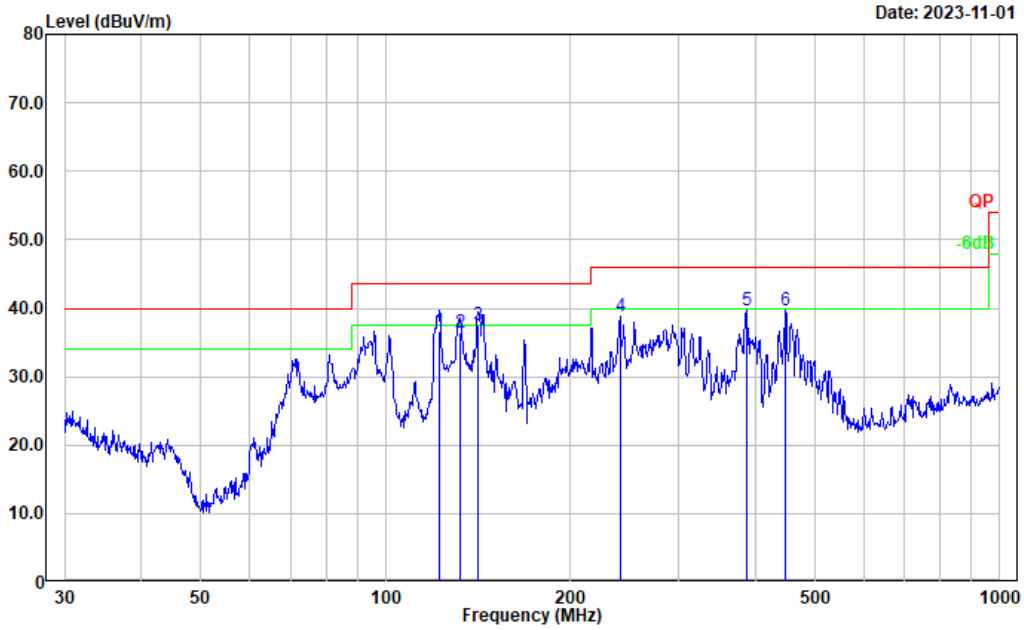
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 33.095 | 37.89 | -6.16 | 31.73 | 40.00 | 8.27 | Peak |
| 2 | 44.120 | 44.98 | -13.75 | 31.23 | 40.00 | 8.77 | Peak |
| 3 | 71.330 | 49.00 | -16.70 | 32.30 | 40.00 | 7.70 | Peak |
| 4 | 122.404 | 43.90 | -11.41 | 32.49 | 43.50 | 11.01 | Peak |
| 5 | 386.634 | 42.72 | -8.97 | 33.75 | 46.00 | 12.25 | Peak |
| 6 | 447.982 | 42.02 | -7.02 | 35.00 | 46.00 | 11.00 | Peak |

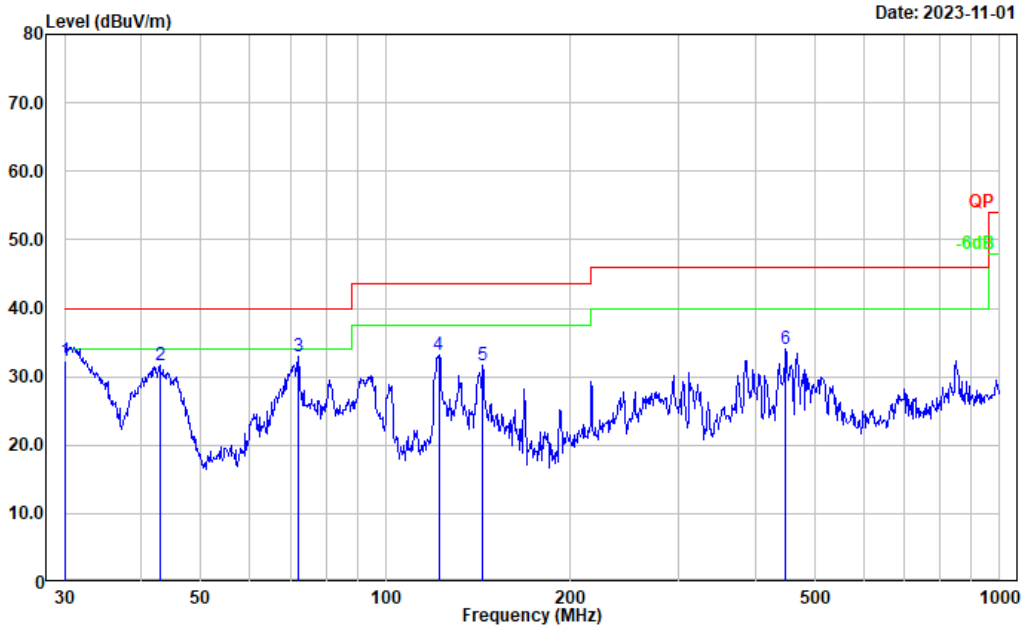
5150-5250MHz(802.11a mode): High channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 122.404 | 48.01 | -11.41 | 36.60 | 43.50 | 6.90 | QP |
| 2 | 132.221 | 47.92 | -11.40 | 36.52 | 43.50 | 6.98 | QP |
| 3 | 141.330 | 49.33 | -11.83 | 37.50 | 43.50 | 6.00 | QP |
| 4 | 240.830 | 51.93 | -13.10 | 38.83 | 46.00 | 7.17 | Peak |
| 5 | 386.634 | 48.74 | -8.97 | 39.77 | 46.00 | 6.23 | Peak |
| 6 | 447.982 | 46.75 | -7.02 | 39.73 | 46.00 | 6.27 | Peak |

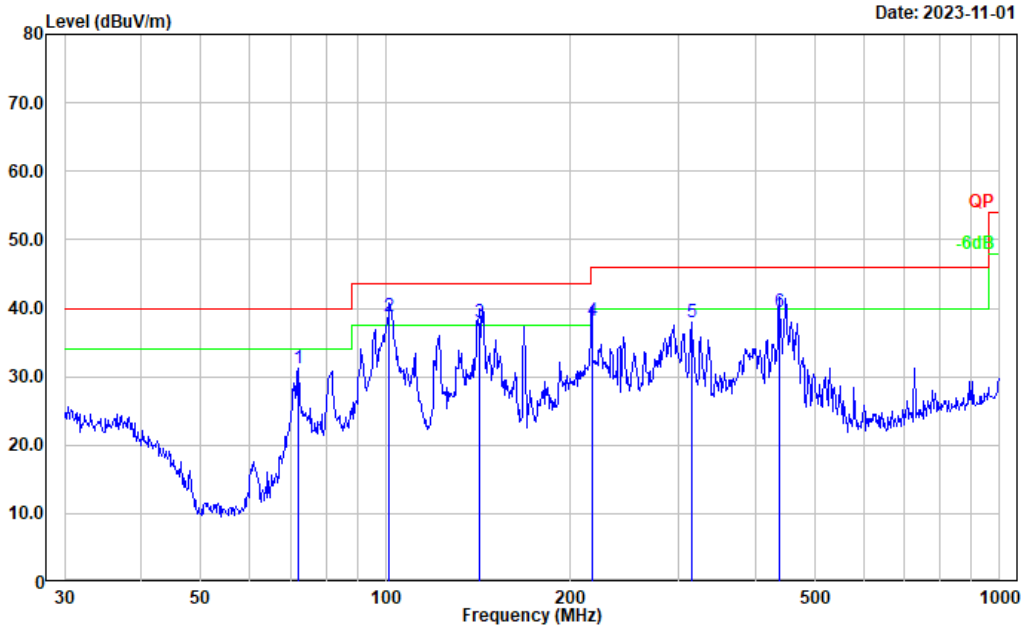
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 30.000 | 36.10 | -3.80 | 32.30 | 40.00 | 7.70 | QP |
| 2 | 42.900 | 44.79 | -13.05 | 31.74 | 40.00 | 8.26 | Peak |
| 3 | 72.084 | 49.80 | -16.77 | 33.03 | 40.00 | 6.97 | Peak |
| 4 | 121.976 | 44.49 | -11.42 | 33.07 | 43.50 | 10.43 | Peak |
| 5 | 143.830 | 43.55 | -11.86 | 31.69 | 43.50 | 11.81 | Peak |
| 6 | 447.982 | 41.02 | -7.02 | 34.00 | 46.00 | 12.00 | Peak |

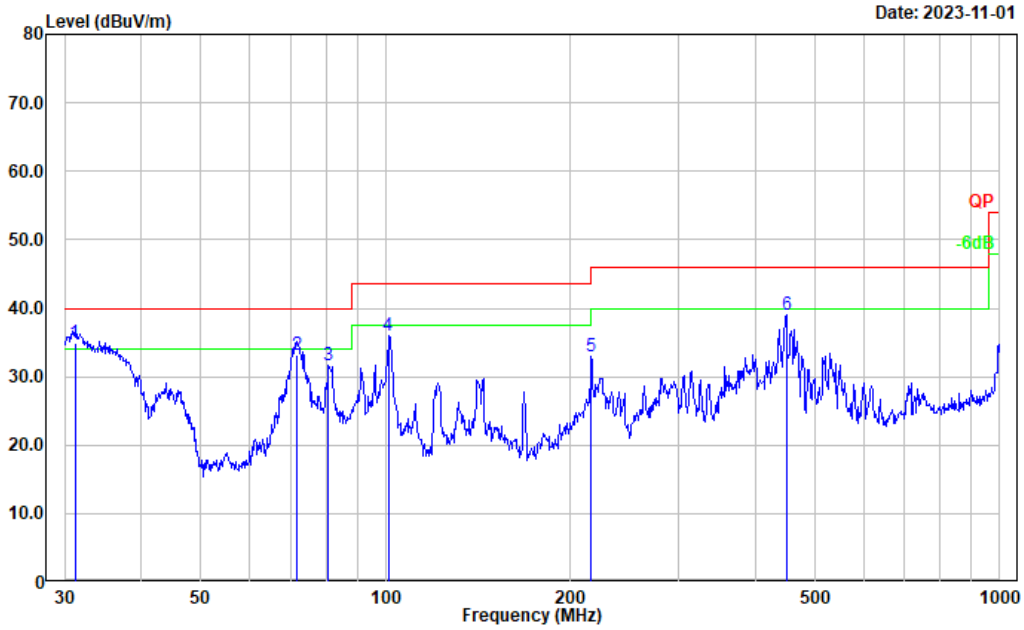
5250-5350MHz(802.11a mode): Low channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 72.084 | 48.05 | -16.77 | 31.28 | 40.00 | 8.72 | Peak |
| 2 | 101.289 | 52.77 | -14.06 | 38.71 | 43.50 | 4.79 | QP |
| 3 | 142.324 | 49.74 | -11.82 | 37.92 | 43.50 | 5.58 | QP |
| 4 | 216.783 | 50.95 | -12.72 | 38.23 | 46.00 | 7.77 | QP |
| 5 | 314.377 | 48.62 | -10.60 | 38.02 | 46.00 | 7.98 | Peak |
| 6 | 437.120 | 46.87 | -7.32 | 39.55 | 46.00 | 6.45 | QP |

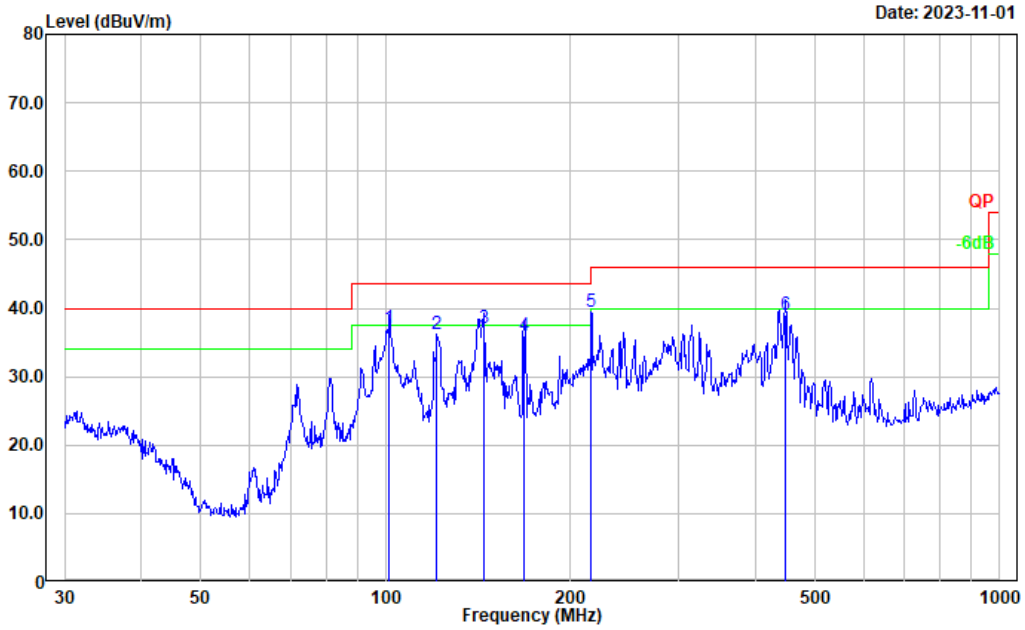
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.180 | 39.52 | -4.69 | 34.83 | 40.00 | 5.17 | QP |
| 2 | 71.832 | 49.97 | -16.74 | 33.23 | 40.00 | 6.77 | QP |
| 3 | 80.644 | 48.96 | -17.41 | 31.55 | 40.00 | 8.45 | Peak |
| 4 | 100.934 | 50.01 | -14.10 | 35.91 | 43.50 | 7.59 | Peak |
| 5 | 216.024 | 45.62 | -12.68 | 32.94 | 46.00 | 13.06 | Peak |
| 6 | 449.556 | 45.91 | -6.97 | 38.94 | 46.00 | 7.06 | Peak |

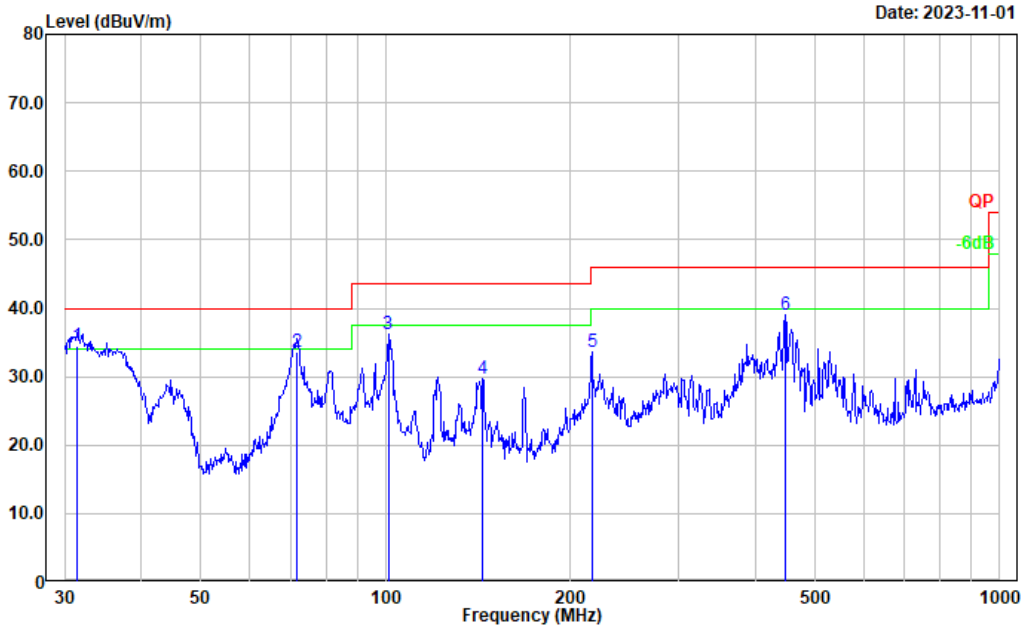
5250-5350MHz(802.11a mode): Middle channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 101.289 | 51.18 | -14.06 | 37.12 | 43.50 | 6.38 | QP |
| 2 | 121.123 | 47.59 | -11.44 | 36.15 | 43.50 | 7.35 | Peak |
| 3 | 144.842 | 48.99 | -11.84 | 37.15 | 43.50 | 6.35 | QP |
| 4 | 168.414 | 48.76 | -12.68 | 36.08 | 43.50 | 7.42 | QP |
| 5 | 216.024 | 52.22 | -12.68 | 39.54 | 46.00 | 6.46 | Peak |
| 6 | 446.414 | 46.19 | -7.08 | 39.11 | 46.00 | 6.89 | QP |

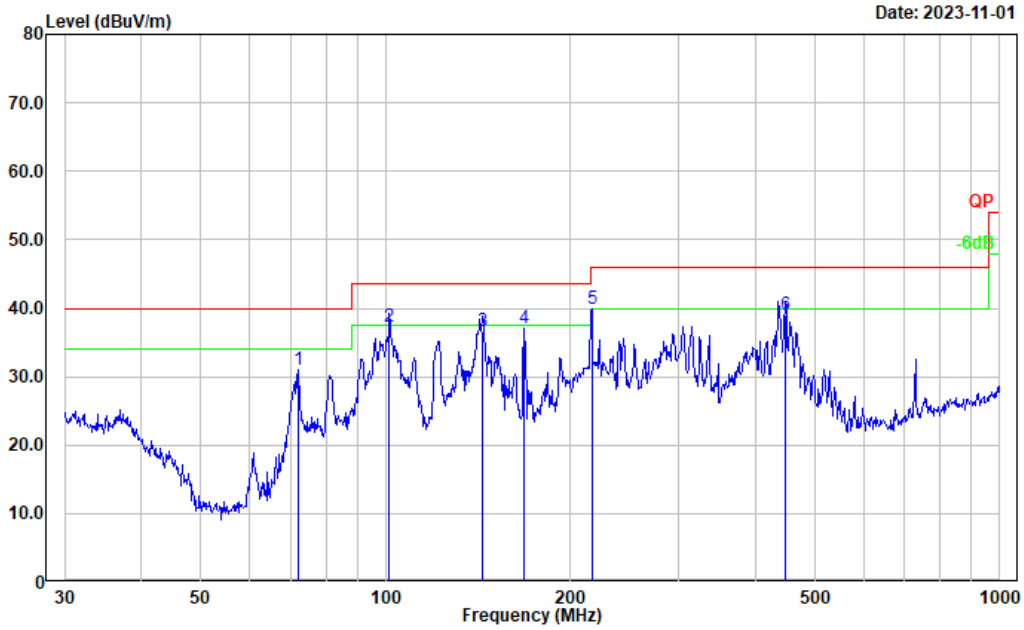
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.510 | 39.34 | -4.93 | 34.41 | 40.00 | 5.59 | QP |
| 2 | 71.832 | 50.31 | -16.74 | 33.57 | 40.00 | 6.43 | QP |
| 3 | 100.934 | 50.28 | -14.10 | 36.18 | 43.50 | 7.32 | Peak |
| 4 | 143.830 | 41.46 | -11.86 | 29.60 | 43.50 | 13.90 | Peak |
| 5 | 216.783 | 46.34 | -12.72 | 33.62 | 46.00 | 12.38 | Peak |
| 6 | 446.414 | 46.18 | -7.08 | 39.10 | 46.00 | 6.90 | Peak |

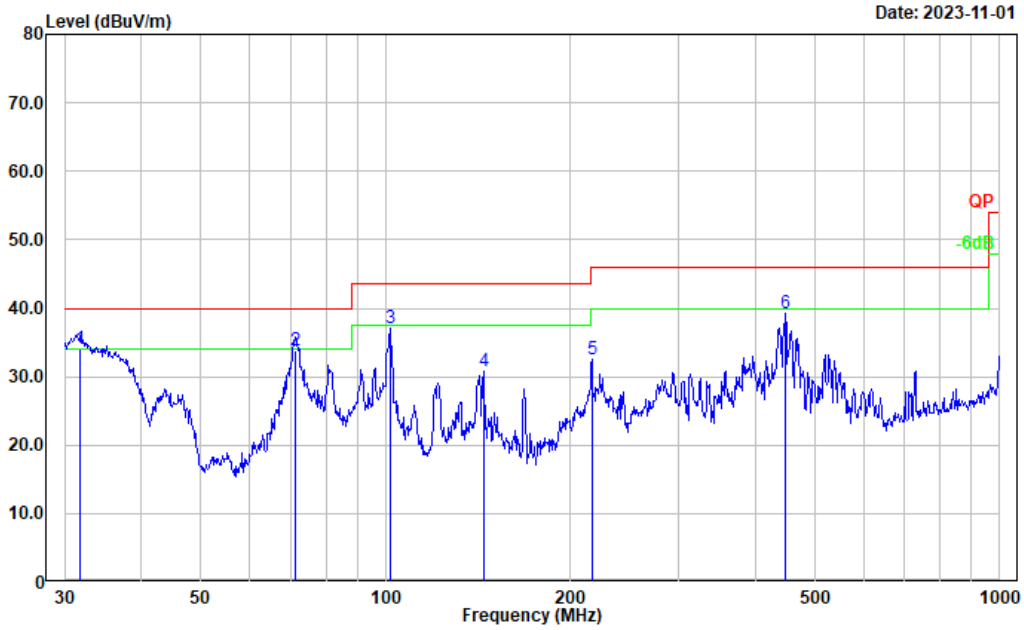
5250-5350MHz(802.11a mode): High channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 72.084 | 47.71 | -16.77 | 30.94 | 40.00 | 9.06 | Peak |
| 2 | 101.289 | 51.40 | -14.06 | 37.34 | 43.50 | 6.16 | QP |
| 3 | 143.830 | 48.59 | -11.86 | 36.73 | 43.50 | 6.77 | QP |
| 4 | 167.824 | 49.76 | -12.63 | 37.13 | 43.50 | 6.37 | Peak |
| 5 | 216.783 | 52.64 | -12.72 | 39.92 | 46.00 | 6.08 | Peak |
| 6 | 447.982 | 46.04 | -7.02 | 39.02 | 46.00 | 6.98 | QP |

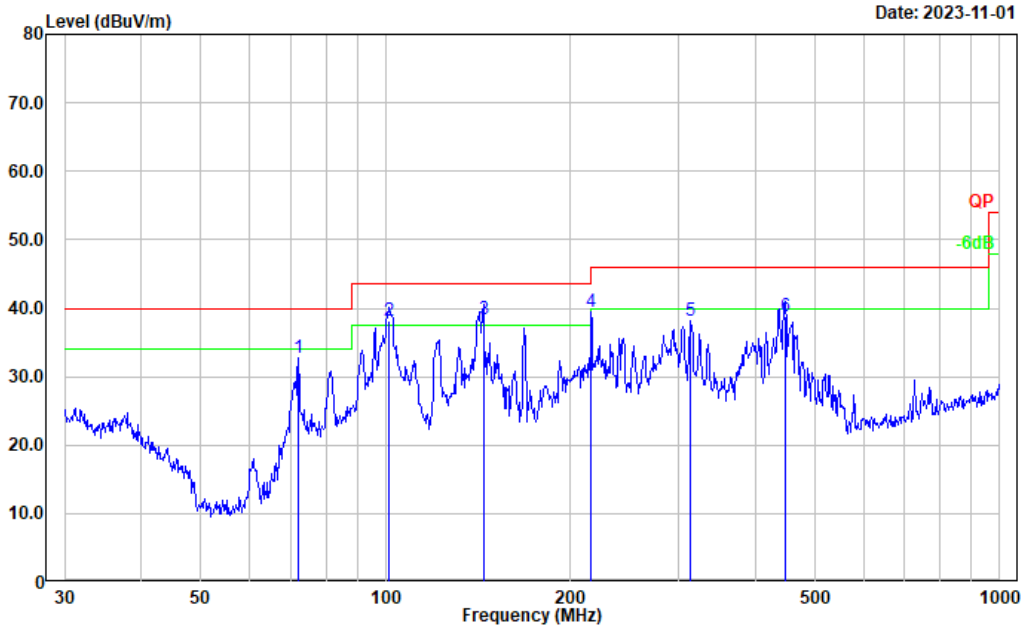
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.843 | 39.15 | -5.18 | 33.97 | 40.00 | 6.03 | QP |
| 2 | 71.330 | 50.54 | -16.70 | 33.84 | 40.00 | 6.16 | QP |
| 3 | 101.644 | 50.99 | -14.02 | 36.97 | 43.50 | 6.53 | Peak |
| 4 | 144.335 | 42.68 | -11.86 | 30.82 | 43.50 | 12.68 | Peak |
| 5 | 216.783 | 45.26 | -12.72 | 32.54 | 46.00 | 13.46 | Peak |
| 6 | 447.982 | 46.23 | -7.02 | 39.21 | 46.00 | 6.79 | Peak |

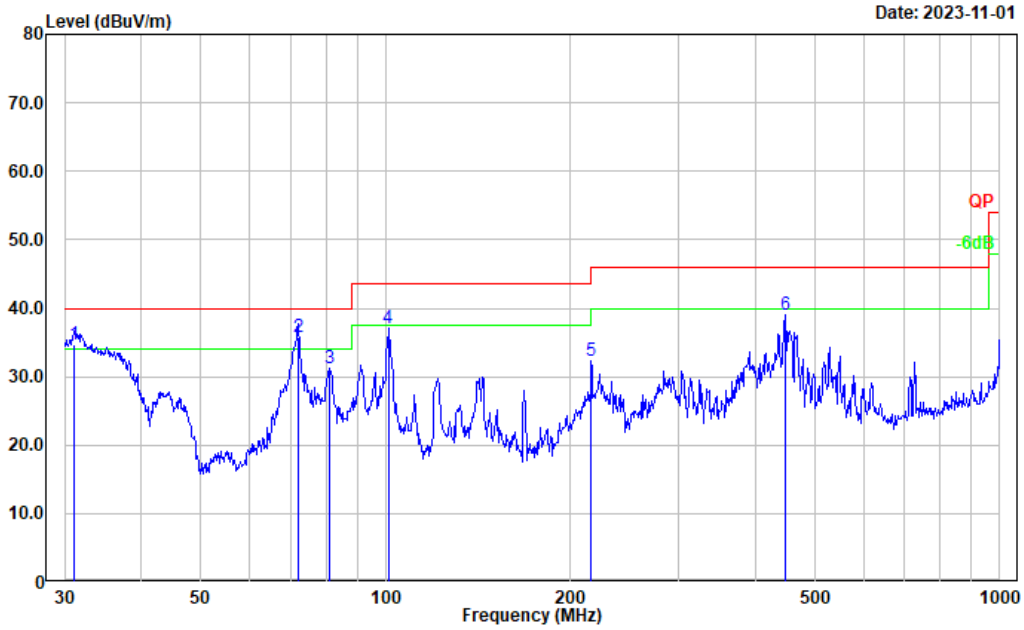
5470-5725MHz (802.11n ht20): Low channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 72.084 | 49.48 | -16.77 | 32.71 | 40.00 | 7.29 | Peak |
| 2 | 101.289 | 52.11 | -14.06 | 38.05 | 43.50 | 5.45 | QP |
| 3 | 144.335 | 50.30 | -11.86 | 38.44 | 43.50 | 5.06 | QP |
| 4 | 216.024 | 52.10 | -12.68 | 39.42 | 46.00 | 6.58 | Peak |
| 5 | 313.276 | 48.76 | -10.60 | 38.16 | 46.00 | 7.84 | Peak |
| 6 | 446.414 | 45.95 | -7.08 | 38.87 | 46.00 | 7.13 | QP |

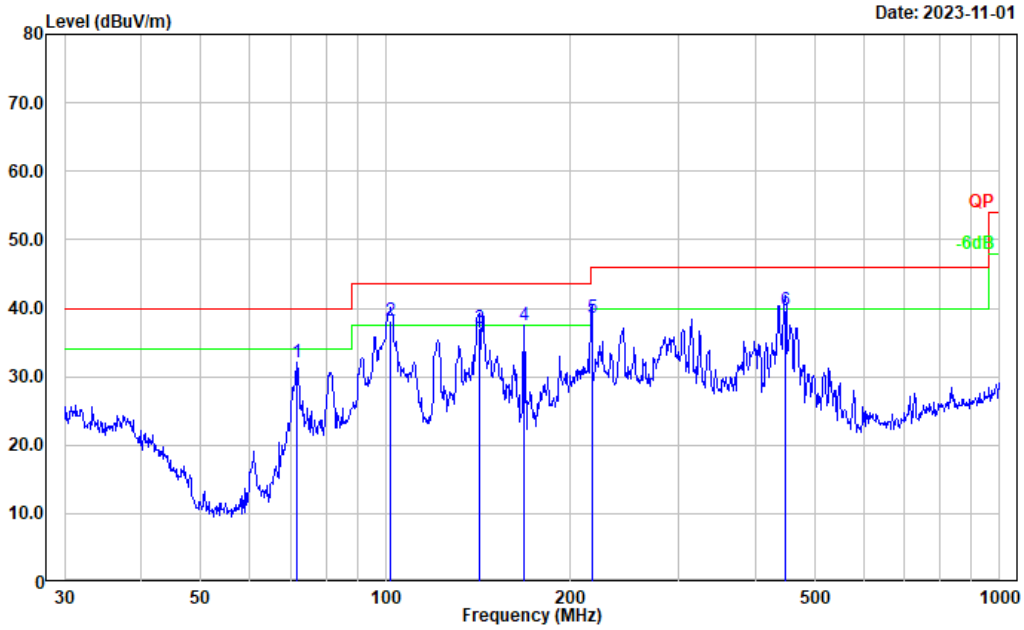
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.071 | 39.27 | -4.61 | 34.66 | 40.00 | 5.34 | QP |
| 2 | 72.084 | 52.54 | -16.77 | 35.77 | 40.00 | 4.23 | QP |
| 3 | 81.212 | 48.55 | -17.38 | 31.17 | 40.00 | 8.83 | Peak |
| 4 | 100.934 | 51.07 | -14.10 | 36.97 | 43.50 | 6.53 | Peak |
| 5 | 216.024 | 45.07 | -12.68 | 32.39 | 46.00 | 13.61 | Peak |
| 6 | 446.414 | 46.07 | -7.08 | 38.99 | 46.00 | 7.01 | Peak |

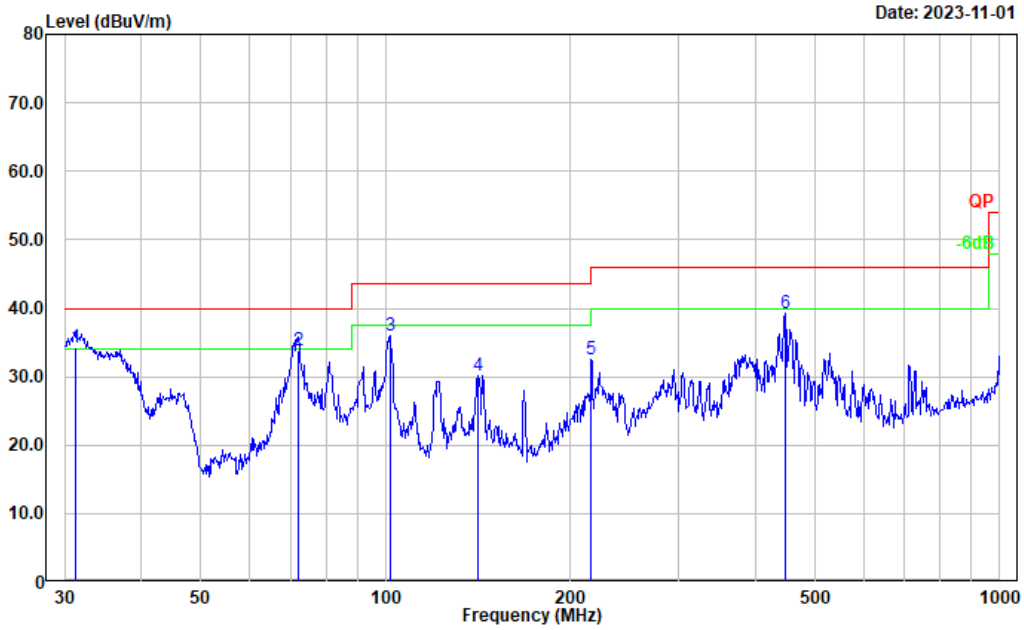
5470-5725MHz (802.11n ht20): Middle channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 71.832 | 48.76 | -16.74 | 32.02 | 40.00 | 7.98 | Peak |
| 2 | 101.644 | 52.21 | -14.02 | 38.19 | 43.50 | 5.31 | QP |
| 3 | 141.826 | 48.97 | -11.82 | 37.15 | 43.50 | 6.35 | QP |
| 4 | 167.824 | 50.11 | -12.63 | 37.48 | 43.50 | 6.02 | Peak |
| 5 | 216.783 | 51.22 | -12.72 | 38.50 | 46.00 | 7.50 | QP |
| 6 | 446.414 | 46.85 | -7.08 | 39.77 | 46.00 | 6.23 | QP |

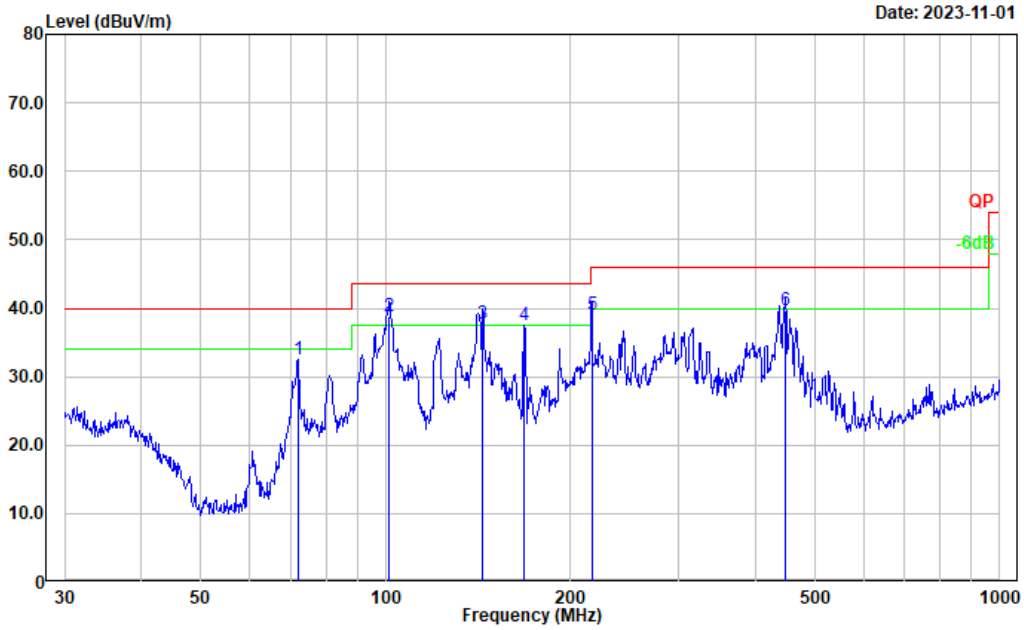
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.289 | 39.11 | -4.77 | 34.34 | 40.00 | 5.66 | QP |
| 2 | 72.084 | 50.55 | -16.77 | 33.78 | 40.00 | 6.22 | QP |
| 3 | 101.644 | 49.99 | -14.02 | 35.97 | 43.50 | 7.53 | Peak |
| 4 | 141.330 | 42.06 | -11.83 | 30.23 | 43.50 | 13.27 | Peak |
| 5 | 216.024 | 45.25 | -12.68 | 32.57 | 46.00 | 13.43 | Peak |
| 6 | 446.414 | 46.26 | -7.08 | 39.18 | 46.00 | 6.82 | Peak |

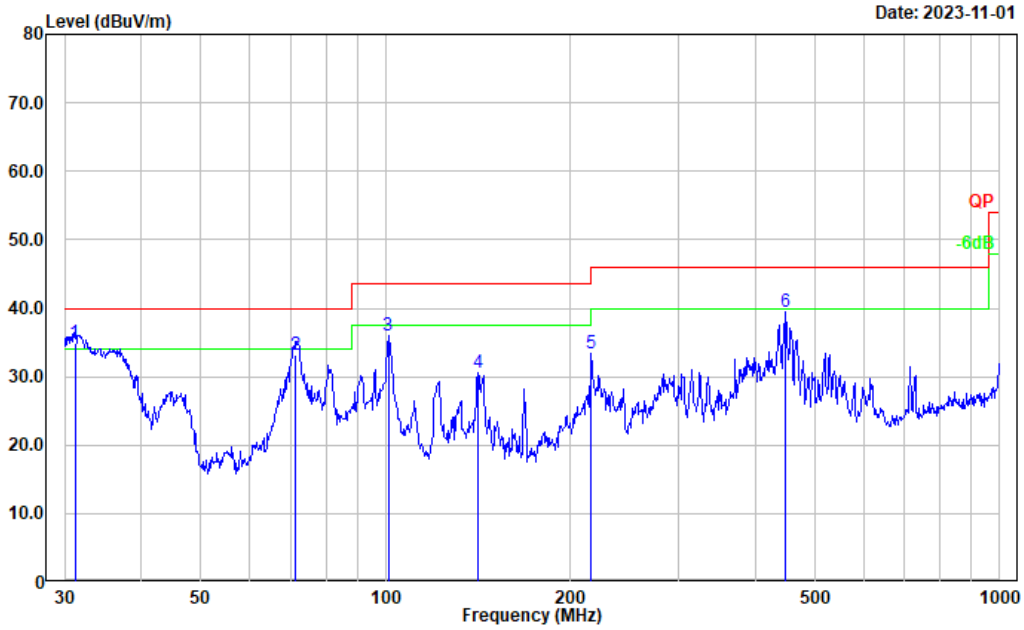
5470-5725MHz (802.11n ht20): High channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 72.084 | 49.36 | -16.77 | 32.59 | 40.00 | 7.41 | Peak |
| 2 | 101.289 | 52.97 | -14.06 | 38.91 | 43.50 | 4.59 | QP |
| 3 | 143.830 | 49.69 | -11.86 | 37.83 | 43.50 | 5.67 | QP |
| 4 | 168.414 | 50.16 | -12.68 | 37.48 | 43.50 | 6.02 | Peak |
| 5 | 216.783 | 51.76 | -12.72 | 39.04 | 46.00 | 6.96 | QP |
| 6 | 447.982 | 46.70 | -7.02 | 39.68 | 46.00 | 6.32 | QP |

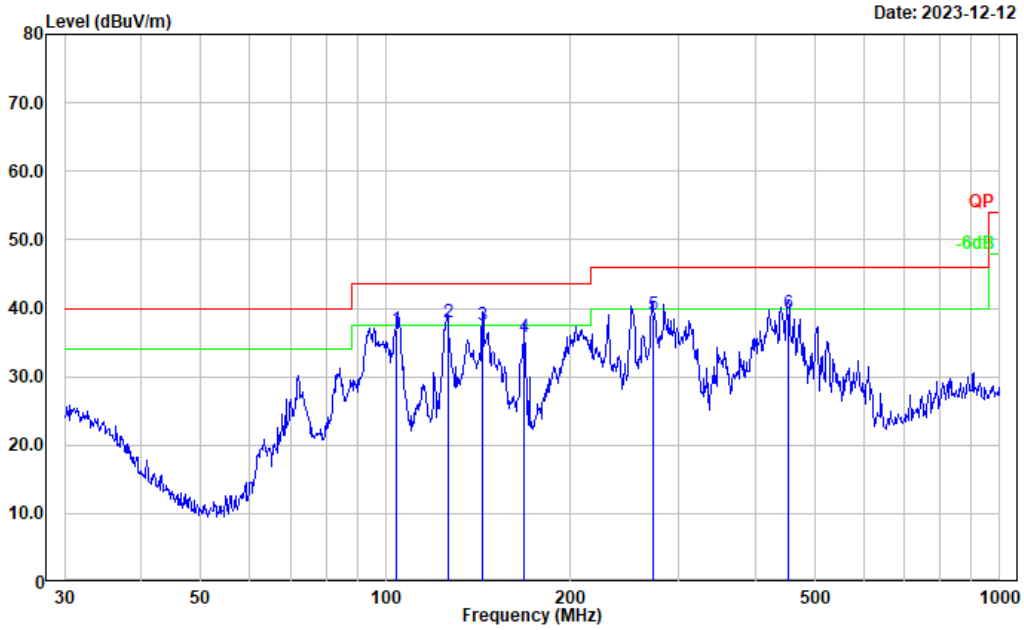
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.180 | 39.49 | -4.69 | 34.80 | 40.00 | 5.20 | QP |
| 2 | 71.330 | 49.80 | -16.70 | 33.10 | 40.00 | 6.90 | QP |
| 3 | 100.934 | 50.10 | -14.10 | 36.00 | 43.50 | 7.50 | Peak |
| 4 | 141.330 | 42.39 | -11.83 | 30.56 | 43.50 | 12.94 | Peak |
| 5 | 216.024 | 46.07 | -12.68 | 33.39 | 46.00 | 12.61 | Peak |
| 6 | 447.982 | 46.48 | -7.02 | 39.46 | 46.00 | 6.54 | Peak |

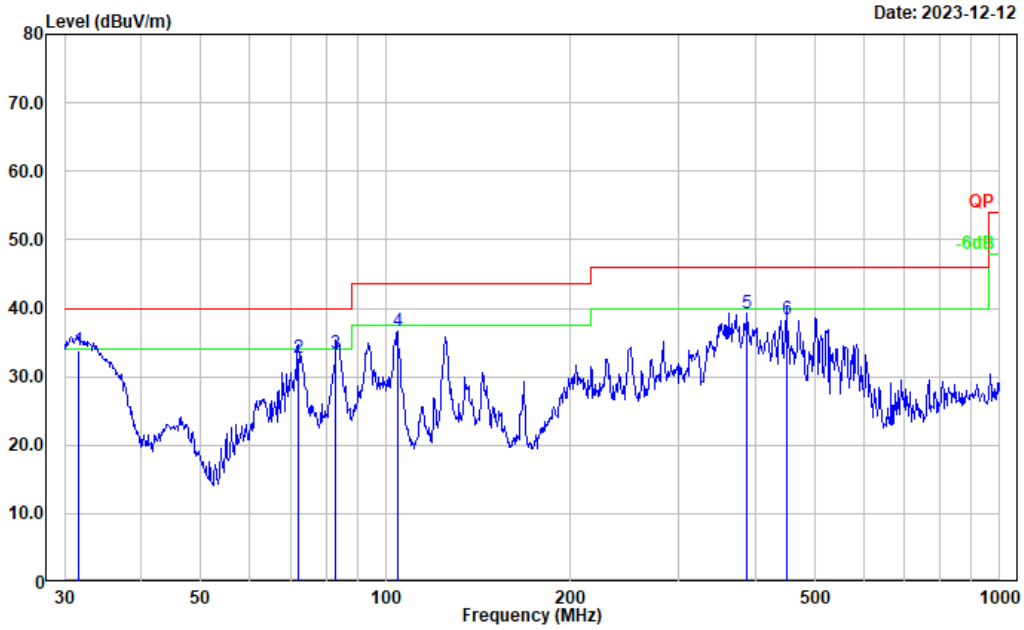
5470-5725MHz (802.11n ht20): Cross channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 104.170 | 50.39 | -13.51 | 36.88 | 43.50 | 6.62 | QP |
| 2 | 126.329 | 49.36 | -11.32 | 38.04 | 43.50 | 5.46 | QP |
| 3 | 143.830 | 49.33 | -11.86 | 37.47 | 43.50 | 6.03 | QP |
| 4 | 168.414 | 48.47 | -12.68 | 35.79 | 43.50 | 7.71 | QP |
| 5 | 272.278 | 51.08 | -12.06 | 39.02 | 46.00 | 6.98 | QP |
| 6 | 452.720 | 46.03 | -6.85 | 39.18 | 46.00 | 6.82 | QP |

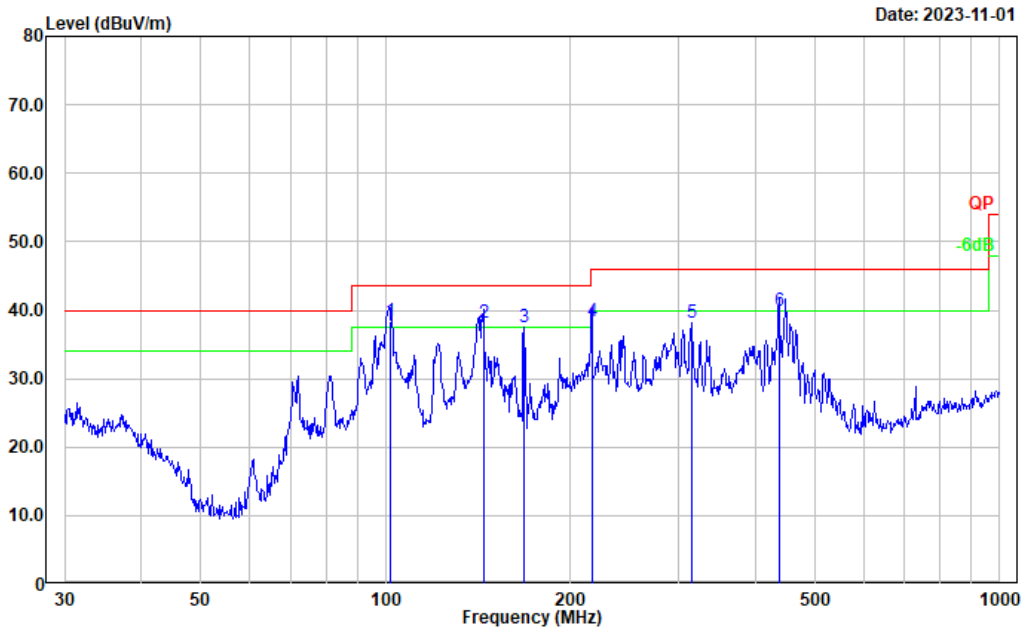
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.620 | 38.89 | -5.02 | 33.87 | 40.00 | 6.13 | QP |
| 2 | 72.084 | 49.51 | -16.77 | 32.74 | 40.00 | 7.26 | QP |
| 3 | 82.938 | 50.53 | -17.23 | 33.30 | 40.00 | 6.70 | QP |
| 4 | 104.536 | 50.00 | -13.44 | 36.56 | 43.50 | 6.94 | Peak |
| 5 | 387.992 | 48.14 | -8.93 | 39.21 | 46.00 | 6.79 | Peak |
| 6 | 449.556 | 45.27 | -6.97 | 38.30 | 46.00 | 7.70 | QP |

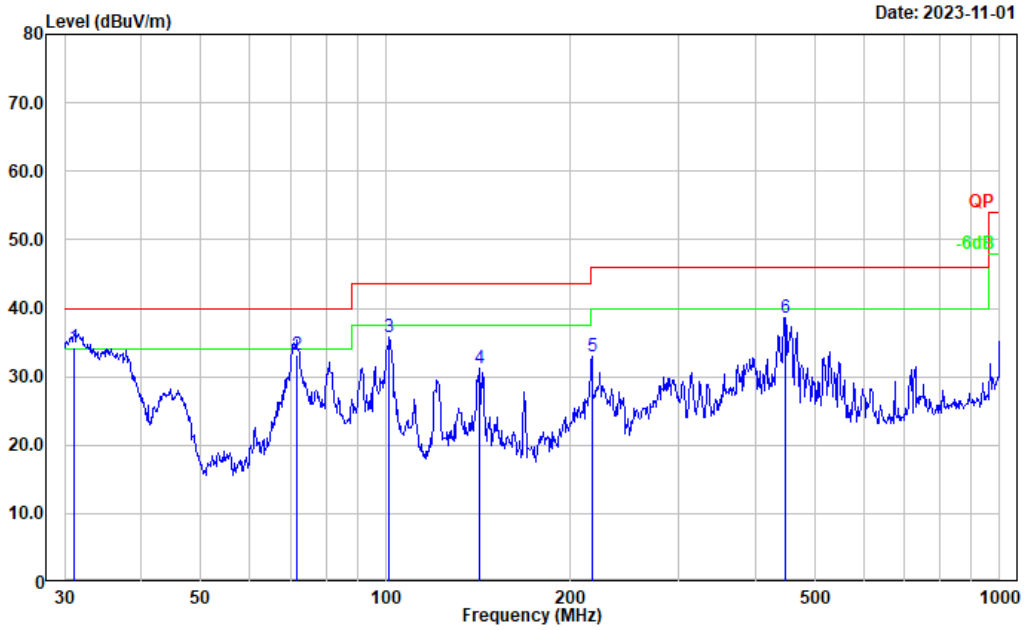
5725-5850MHz (802.11ax hew20): Low channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 101.644 | 52.36 | -14.02 | 38.34 | 43.50 | 5.16 | QP |
| 2 | 144.335 | 49.94 | -11.86 | 38.08 | 43.50 | 5.42 | QP |
| 3 | 167.824 | 50.13 | -12.63 | 37.50 | 43.50 | 6.00 | Peak |
| 4 | 216.783 | 51.01 | -12.72 | 38.29 | 46.00 | 7.71 | QP |
| 5 | 314.377 | 48.67 | -10.60 | 38.07 | 46.00 | 7.93 | Peak |
| 6 | 437.120 | 47.23 | -7.32 | 39.91 | 46.00 | 6.09 | QP |

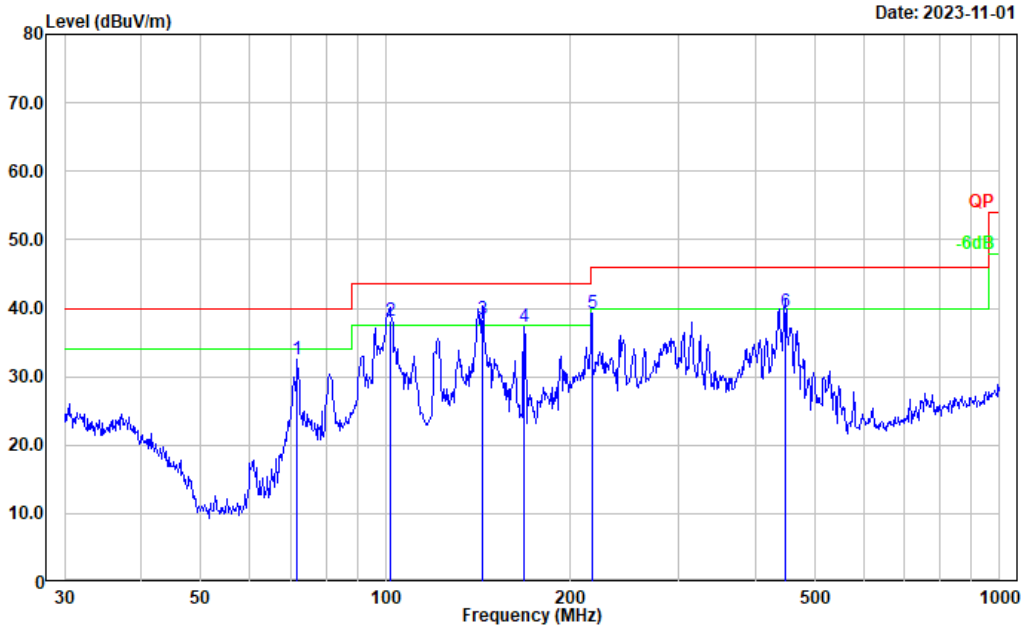
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.071 | 38.81 | -4.61 | 34.20 | 40.00 | 5.80 | QP |
| 2 | 71.581 | 49.95 | -16.72 | 33.23 | 40.00 | 6.77 | QP |
| 3 | 101.289 | 49.79 | -14.06 | 35.73 | 43.50 | 7.77 | Peak |
| 4 | 141.826 | 42.96 | -11.82 | 31.14 | 43.50 | 12.36 | Peak |
| 5 | 216.783 | 45.65 | -12.72 | 32.93 | 46.00 | 13.07 | Peak |
| 6 | 446.414 | 45.63 | -7.08 | 38.55 | 46.00 | 7.45 | Peak |

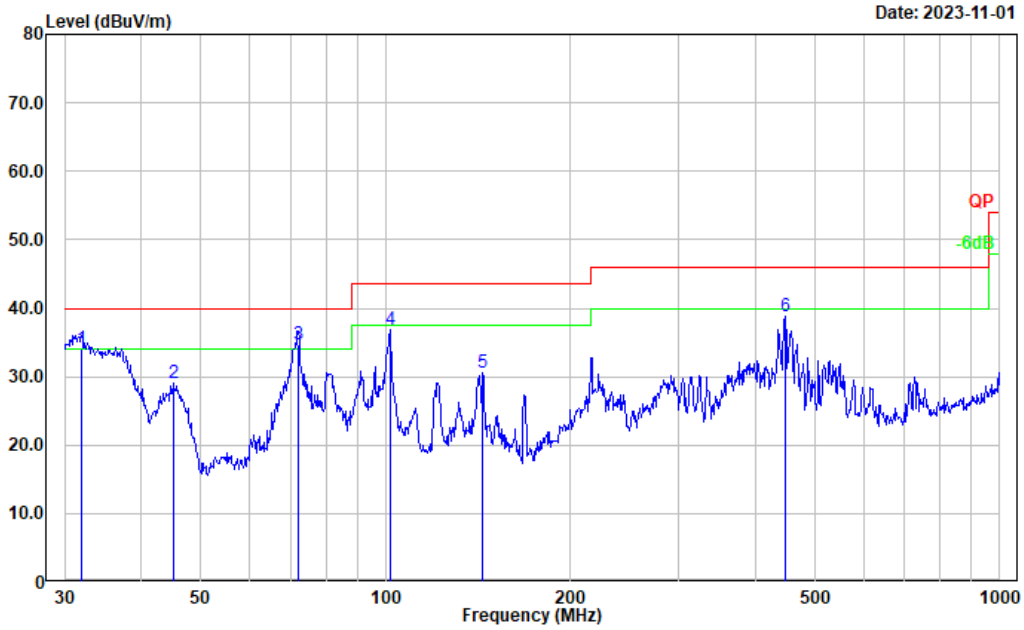
5725-5850MHz (802.11ax hew20): Middle channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 71.832 | 49.32 | -16.74 | 32.58 | 40.00 | 7.42 | Peak |
| 2 | 101.644 | 52.16 | -14.02 | 38.14 | 43.50 | 5.36 | QP |
| 3 | 143.830 | 50.25 | -11.86 | 38.39 | 43.50 | 5.11 | QP |
| 4 | 167.824 | 49.98 | -12.63 | 37.35 | 43.50 | 6.15 | Peak |
| 5 | 216.783 | 51.90 | -12.72 | 39.18 | 46.00 | 6.82 | Peak |
| 6 | 446.414 | 46.53 | -7.08 | 39.45 | 46.00 | 6.55 | QP |

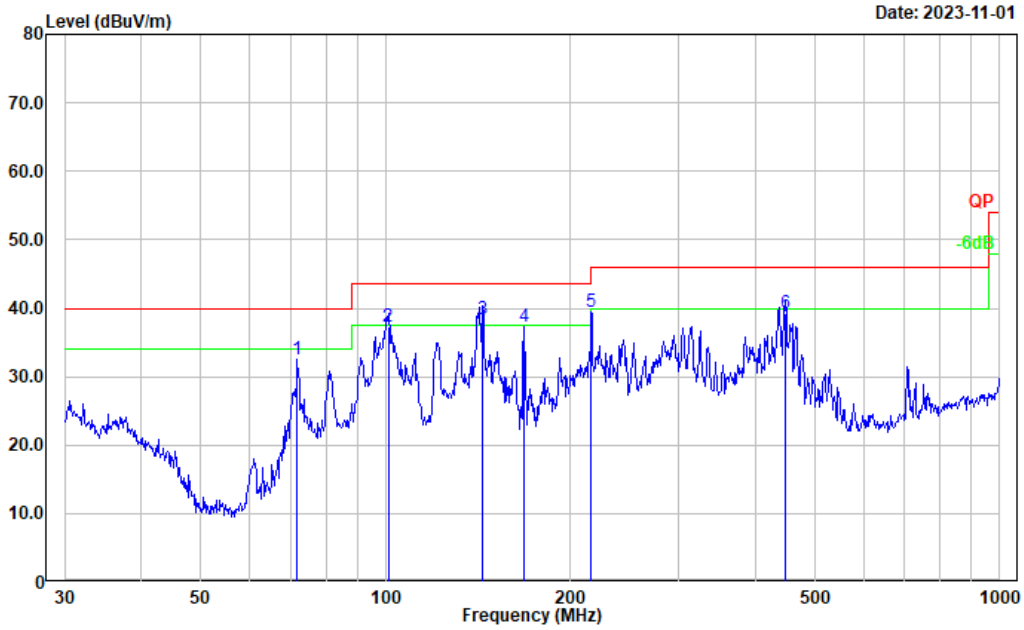
Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.955 | 39.33 | -5.27 | 34.06 | 40.00 | 5.94 | QP |
| 2 | 45.058 | 43.29 | -14.25 | 29.04 | 40.00 | 10.96 | Peak |
| 3 | 72.084 | 51.51 | -16.77 | 34.74 | 40.00 | 5.26 | QP |
| 4 | 102.001 | 50.76 | -13.97 | 36.79 | 43.50 | 6.71 | Peak |
| 5 | 143.830 | 42.33 | -11.86 | 30.47 | 43.50 | 13.03 | Peak |
| 6 | 446.414 | 45.87 | -7.08 | 38.79 | 46.00 | 7.21 | Peak |

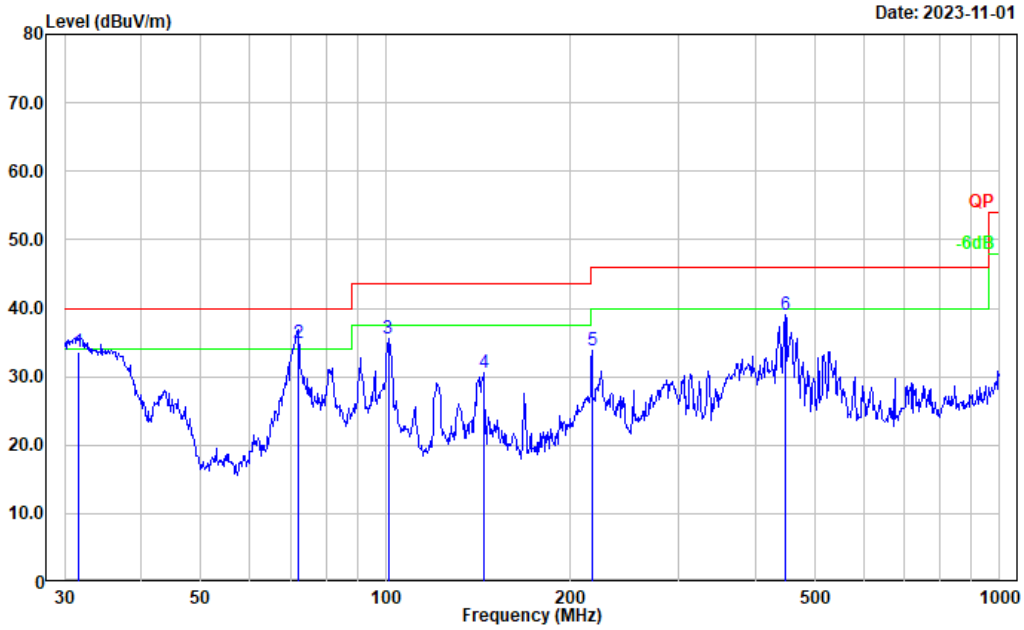
5725-5850MHz (802.11ax hew20): High channel

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 71.832 | 49.32 | -16.74 | 32.58 | 40.00 | 7.42 | Peak |
| 2 | 100.934 | 51.32 | -14.10 | 37.22 | 43.50 | 6.28 | QP |
| 3 | 143.830 | 50.24 | -11.86 | 38.38 | 43.50 | 5.12 | QP |
| 4 | 168.414 | 49.96 | -12.68 | 37.28 | 43.50 | 6.22 | Peak |
| 5 | 216.024 | 52.24 | -12.68 | 39.56 | 46.00 | 6.44 | Peak |
| 6 | 446.414 | 46.29 | -7.08 | 39.21 | 46.00 | 6.79 | QP |

Project No.: CR230848801-RF
Tester: Jeff Luo
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 31.620 | 38.63 | -5.02 | 33.61 | 40.00 | 6.39 | QP |
| 2 | 72.084 | 51.63 | -16.77 | 34.86 | 40.00 | 5.14 | QP |
| 3 | 100.934 | 49.75 | -14.10 | 35.65 | 43.50 | 7.85 | Peak |
| 4 | 144.335 | 42.44 | -11.86 | 30.58 | 43.50 | 12.92 | Peak |
| 5 | 216.783 | 46.61 | -12.72 | 33.89 | 46.00 | 12.11 | Peak |
| 6 | 447.982 | 46.02 | -7.02 | 39.00 | 46.00 | 7.00 | Peak |

**2) 1GHz-40GHz:**

**5150-5250MHz:**

**802.11a:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5180 MHz | | | | | | | |
| 5180.000 | 72.32 | PK | H | 38.68 | 104.98 | N/A | N/A |
| 5180.000 | 62.21 | AV | H | 38.68 | 94.87 | N/A | N/A |
| 5180.000 | 73.52 | PK | V | 38.68 | 106.18 | N/A | N/A |
| 5180.000 | 63.44 | AV | V | 38.68 | 96.10 | N/A | N/A |
| 5150.000 | 38.15 | PK | V | 38.64 | 70.77 | 74.00 | 3.23 |
| 5150.000 | 19.52 | AV | V | 38.64 | 52.14 | 54.00 | 1.86 |
| 10360.000 | 38.62 | PK | V | 19.18 | 51.78 | 68.20 | 16.42 |
| 15540.000 | 35.77 | PK | V | 22.44 | 52.19 | 74.00 | 21.81 |
| 15540.000 | 22.58 | AV | V | 22.44 | 39.00 | 54.00 | 15.00 |
| Middle Channel: 5200 MHz | | | | | | | |
| 5200.000 | 72.45 | PK | H | 38.70 | 105.13 | N/A | N/A |
| 5200.000 | 62.56 | AV | H | 38.70 | 95.24 | N/A | N/A |
| 5200.000 | 73.46 | PK | V | 38.70 | 106.14 | N/A | N/A |
| 5200.000 | 63.59 | AV | V | 38.70 | 96.27 | N/A | N/A |
| 10400.000 | 37.66 | PK | V | 19.16 | 50.80 | 68.20 | 17.40 |
| 15600.000 | 37.03 | PK | V | 22.41 | 53.42 | 74.00 | 20.58 |
| 15600.000 | 24.55 | AV | V | 22.41 | 40.94 | 54.00 | 13.06 |
| High Channel: 5240 MHz | | | | | | | |
| 5240.000 | 72.41 | PK | H | 38.85 | 105.24 | N/A | N/A |
| 5240.000 | 62.45 | AV | H | 38.85 | 95.28 | N/A | N/A |
| 5240.000 | 73.13 | PK | V | 38.85 | 105.96 | N/A | N/A |
| 5240.000 | 63.20 | AV | V | 38.85 | 96.03 | N/A | N/A |
| 5350.000 | 29.88 | PK | V | 39.03 | 62.89 | 74.00 | 11.11 |
| 5350.000 | 16.77 | AV | V | 39.03 | 49.78 | 54.00 | 4.22 |
| 10480.000 | 37.57 | PK | V | 18.86 | 50.41 | 68.20 | 17.79 |
| 15720.000 | 38.33 | PK | V | 22.28 | 54.59 | 74.00 | 19.41 |
| 15720.000 | 25.47 | AV | V | 22.28 | 41.73 | 54.00 | 12.27 |

**802.11n ht20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: | | | | 5180 | MHz | | |
| 5180.000 | 70.23 | PK | H | 38.68 | 102.89 | N/A | N/A |
| 5180.000 | 60.47 | AV | H | 38.68 | 93.13 | N/A | N/A |
| 5180.000 | 71.13 | PK | V | 38.68 | 103.79 | N/A | N/A |
| 5180.000 | 61.44 | AV | V | 38.68 | 94.10 | N/A | N/A |
| 5150.000 | 38.31 | PK | V | 38.64 | 70.93 | 74.00 | 3.07 |
| 5150.000 | 18.88 | AV | V | 38.64 | 51.50 | 54.00 | 2.50 |
| 10360.000 | 35.66 | PK | V | 19.18 | 48.82 | 68.20 | 19.38 |
| 15540.000 | 37.68 | PK | V | 22.44 | 54.10 | 74.00 | 19.90 |
| 15540.000 | 24.52 | AV | V | 22.44 | 40.94 | 54.00 | 13.06 |
| Middle Channel: | | | | 5200 | MHz | | |
| 5200.000 | 70.25 | PK | H | 38.70 | 102.93 | N/A | N/A |
| 5200.000 | 60.78 | AV | H | 38.70 | 93.46 | N/A | N/A |
| 5200.000 | 71.55 | PK | V | 38.70 | 104.23 | N/A | N/A |
| 5200.000 | 61.38 | AV | V | 38.70 | 94.06 | N/A | N/A |
| 10400.000 | 34.63 | PK | V | 19.16 | 47.77 | 68.20 | 20.43 |
| 15600.000 | 36.37 | PK | V | 22.41 | 52.76 | 74.00 | 21.24 |
| 15600.000 | 23.57 | AV | V | 22.41 | 39.96 | 54.00 | 14.04 |
| High Channel: | | | | 5240 | MHz | | |
| 5240.000 | 71.25 | PK | H | 38.85 | 104.08 | N/A | N/A |
| 5240.000 | 61.44 | AV | H | 38.85 | 94.27 | N/A | N/A |
| 5240.000 | 71.85 | PK | V | 38.85 | 104.68 | N/A | N/A |
| 5240.000 | 61.82 | AV | V | 38.85 | 94.65 | N/A | N/A |
| 5350.000 | 29.77 | PK | V | 39.03 | 62.78 | 74.00 | 11.22 |
| 5350.000 | 16.87 | AV | V | 39.03 | 49.88 | 54.00 | 4.12 |
| 10480.000 | 34.22 | PK | V | 18.86 | 47.06 | 68.20 | 21.14 |
| 15720.000 | 38.45 | PK | V | 22.28 | 54.71 | 74.00 | 19.29 |
| 15720.000 | 25.41 | AV | V | 22.28 | 41.67 | 54.00 | 12.33 |

**802.11ax hew20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5180 MHz | | | | | | | |
| 5180.000 | 72.21 | PK | H | 38.68 | 104.87 | N/A | N/A |
| 5180.000 | 60.23 | AV | H | 38.68 | 92.89 | N/A | N/A |
| 5180.000 | 73.77 | PK | V | 38.68 | 106.43 | N/A | N/A |
| 5180.000 | 61.23 | AV | V | 38.68 | 93.89 | N/A | N/A |
| 5150.000 | 38.37 | PK | V | 38.64 | 70.99 | 74.00 | 3.01 |
| 5150.000 | 19.88 | AV | V | 38.64 | 52.50 | 54.00 | 1.50 |
| 10360.000 | 34.54 | PK | V | 19.18 | 47.70 | 68.20 | 20.50 |
| 15540.000 | 36.72 | PK | V | 22.44 | 53.14 | 74.00 | 20.86 |
| 15540.000 | 23.49 | AV | V | 22.44 | 39.91 | 54.00 | 14.09 |
| Middle Channel: 5200 MHz | | | | | | | |
| 5200.000 | 71.45 | PK | H | 38.70 | 104.13 | N/A | N/A |
| 5200.000 | 59.82 | AV | H | 38.70 | 92.50 | N/A | N/A |
| 5200.000 | 72.13 | PK | V | 38.70 | 104.81 | N/A | N/A |
| 5200.000 | 70.56 | AV | V | 38.70 | 103.24 | N/A | N/A |
| 10400.000 | 34.55 | PK | V | 19.16 | 47.69 | 68.20 | 20.51 |
| 15600.000 | 38.25 | PK | V | 22.41 | 54.64 | 74.00 | 19.36 |
| 15600.000 | 25.48 | AV | V | 22.41 | 41.87 | 54.00 | 12.13 |
| High Channel: 5240 MHz | | | | | | | |
| 5240.000 | 71.66 | PK | H | 38.85 | 104.49 | N/A | N/A |
| 5240.000 | 59.88 | AV | H | 38.85 | 92.71 | N/A | N/A |
| 5240.000 | 72.55 | PK | V | 38.85 | 105.38 | N/A | N/A |
| 5240.000 | 70.48 | AV | V | 38.85 | 103.31 | N/A | N/A |
| 5350.000 | 30.28 | PK | V | 39.03 | 63.29 | 74.00 | 10.71 |
| 5350.000 | 17.66 | AV | V | 39.03 | 50.67 | 54.00 | 3.33 |
| 10480.000 | 34.55 | PK | V | 18.86 | 47.39 | 68.20 | 20.81 |
| 15720.000 | 39.09 | PK | V | 22.28 | 55.35 | 74.00 | 18.65 |
| 15720.000 | 26.51 | AV | V | 22.28 | 42.77 | 54.00 | **11.23** |

**5250-5350MHz:**

**802.11a:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5260 MHz | | | | | | | |
| 5260.000 | 71.42 | PK | H | 38.90 | 104.30 | N/A | N/A |
| 5260.000 | 61.57 | AV | H | 38.90 | 94.45 | N/A | N/A |
| 5260.000 | 72.70 | PK | V | 38.90 | 105.58 | N/A | N/A |
| 5260.000 | 62.81 | AV | V | 38.90 | 95.69 | N/A | N/A |
| 5150.000 | 30.12 | PK | V | 38.64 | 62.74 | 74.00 | 11.26 |
| 5150.000 | 16.82 | AV | V | 38.64 | 49.44 | 54.00 | 4.56 |
| 10520.000 | 32.92 | PK | V | 18.93 | 45.83 | 68.20 | 22.37 |
| 15780.000 | 37.47 | PK | V | 22.26 | 53.71 | 74.00 | 20.29 |
| 15780.000 | 24.66 | AV | V | 22.26 | 40.90 | 54.00 | 13.10 |
| Middle Channel: 5280 MHz | | | | | | | |
| 5280.000 | 71.82 | PK | H | 38.91 | 104.71 | N/A | N/A |
| 5280.000 | 61.54 | AV | H | 38.91 | 94.43 | N/A | N/A |
| 5280.000 | 72.69 | PK | V | 38.91 | 105.58 | N/A | N/A |
| 5280.000 | 62.82 | AV | V | 38.91 | 95.71 | N/A | N/A |
| 10560.000 | 33.76 | PK | V | 19.20 | 46.94 | 68.20 | 21.26 |
| 15840.000 | 36.66 | PK | V | 22.34 | 52.98 | 74.00 | 21.02 |
| 15840.000 | 23.48 | AV | V | 22.34 | 39.80 | 54.00 | 14.20 |
| High Channel: 5320 MHz | | | | | | | |
| 5320.000 | 71.23 | PK | H | 38.97 | 104.18 | N/A | N/A |
| 5320.000 | 61.44 | AV | H | 38.97 | 94.39 | N/A | N/A |
| 5320.000 | 72.12 | PK | V | 38.97 | 105.07 | N/A | N/A |
| 5320.000 | 61.68 | AV | V | 38.97 | 94.63 | N/A | N/A |
| 5350.000 | 31.52 | PK | V | 39.03 | 64.53 | 74.00 | 9.47 |
| 5350.000 | 16.72 | AV | V | 39.03 | 49.73 | 54.00 | 4.27 |
| 10640.000 | 33.21 | PK | V | 19.50 | 46.69 | 74.00 | 27.31 |
| 10640.000 | 20.53 | AV | V | 19.50 | 34.01 | 54.00 | 19.99 |
| 15960.000 | 38.07 | PK | V | 22.22 | 54.27 | 74.00 | 19.73 |
| 15960.000 | 25.38 | AV | V | 22.22 | 41.58 | 54.00 | 12.42 |

**802.11n ht20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5260 MHz | | | | | | | |
| 5260.000 | 71.24 | PK | H | 38.90 | 104.12 | N/A | N/A |
| 5260.000 | 60.21 | AV | H | 38.90 | 93.09 | N/A | N/A |
| 5260.000 | 71.82 | PK | V | 38.90 | 104.70 | N/A | N/A |
| 5260.000 | 61.55 | AV | V | 38.90 | 94.43 | N/A | N/A |
| 5150.000 | 30.27 | PK | V | 38.64 | 62.89 | 74.00 | 11.11 |
| 5150.000 | 16.85 | AV | V | 38.64 | 49.47 | 54.00 | 4.53 |
| 10520.000 | 32.63 | PK | V | 18.93 | 45.54 | 68.20 | 22.66 |
| 15780.000 | 36.13 | PK | V | 22.26 | 52.37 | 74.00 | 21.63 |
| 15780.000 | 23.52 | AV | V | 22.26 | 39.76 | 54.00 | 14.24 |
| Middle Channel: 5280 MHz | | | | | | | |
| 5280.000 | 70.54 | PK | H | 38.91 | 103.43 | N/A | N/A |
| 5280.000 | 60.19 | AV | H | 38.91 | 93.08 | N/A | N/A |
| 5280.000 | 71.68 | PK | V | 38.91 | 104.57 | N/A | N/A |
| 5280.000 | 61.33 | AV | V | 38.91 | 94.22 | N/A | N/A |
| 10560.000 | 33.45 | PK | V | 19.20 | 46.63 | 68.20 | 21.57 |
| 15840.000 | 36.62 | PK | V | 22.34 | 52.94 | 74.00 | 21.06 |
| 15840.000 | 23.28 | AV | V | 22.34 | 39.60 | 54.00 | 14.40 |
| High Channel: 5320 MHz | | | | | | | |
| 5320.000 | 70.25 | PK | H | 38.97 | 103.20 | N/A | N/A |
| 5320.000 | 60.54 | AV | H | 38.97 | 93.49 | N/A | N/A |
| 5320.000 | 71.27 | PK | V | 38.97 | 104.22 | N/A | N/A |
| 5320.000 | 61.39 | AV | V | 38.97 | 94.34 | N/A | N/A |
| 5350.000 | 33.91 | PK | V | 39.03 | 66.92 | 74.00 | 7.08 |
| 5350.000 | 16.85 | AV | V | 39.03 | 49.86 | 54.00 | 4.14 |
| 10640.000 | 33.80 | PK | V | 19.50 | 47.28 | 74.00 | 26.72 |
| 10640.000 | 20.77 | AV | V | 19.50 | 34.25 | 54.00 | 19.75 |
| 15960.000 | 37.90 | PK | V | 22.22 | 54.10 | 74.00 | 19.90 |
| 15960.000 | 24.58 | AV | V | 22.22 | 40.78 | 54.00 | 13.22 |

**802.11 ax hew20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5260 MHz | | | | | | | |
| 5260.000 | 72.56 | PK | H | 38.90 | 105.44 | N/A | N/A |
| 5260.000 | 60.20 | AV | H | 38.90 | 93.08 | N/A | N/A |
| 5260.000 | 73.10 | PK | V | 38.90 | 105.98 | N/A | N/A |
| 5260.000 | 61.08 | AV | V | 38.90 | 93.96 | N/A | N/A |
| 5150.000 | 30.22 | PK | V | 38.64 | 62.84 | 74.00 | 11.16 |
| 5150.000 | 16.85 | AV | V | 38.64 | 49.47 | 54.00 | 4.53 |
| 10520.000 | 34.29 | PK | V | 18.93 | 47.20 | 68.20 | 21.00 |
| 15780.000 | 37.55 | PK | V | 22.26 | 53.79 | 74.00 | 20.21 |
| 15780.000 | 24.61 | AV | V | 22.26 | 40.85 | 54.00 | 13.15 |
| Middle Channel: 5280 MHz | | | | | | | |
| 5280.000 | 72.41 | PK | H | 38.91 | 105.30 | N/A | N/A |
| 5280.000 | 59.89 | AV | H | 38.91 | 92.78 | N/A | N/A |
| 5280.000 | 73.45 | PK | V | 38.91 | 106.34 | N/A | N/A |
| 5280.000 | 60.19 | AV | V | 38.91 | 93.08 | N/A | N/A |
| 10560.000 | 34.13 | PK | V | 19.20 | 47.31 | 68.20 | 20.89 |
| 15840.000 | 36.92 | PK | V | 22.34 | 53.24 | 74.00 | 20.76 |
| 15840.000 | 23.58 | AV | V | 22.34 | 39.90 | 54.00 | 14.10 |
| High Channel: 5320 MHz | | | | | | | |
| 5320.000 | 72.14 | PK | H | 38.97 | 105.09 | N/A | N/A |
| 5320.000 | 60.37 | AV | H | 38.97 | 93.32 | N/A | N/A |
| 5320.000 | 73.94 | PK | V | 38.97 | 106.89 | N/A | N/A |
| 5320.000 | 60.73 | AV | V | 38.97 | 93.68 | N/A | N/A |
| 5350.000 | 35.24 | PK | V | 39.03 | 68.25 | 74.00 | 5.75 |
| 5350.000 | 17.02 | AV | V | 39.03 | 50.03 | 54.00 | 3.97 |
| 10640.000 | 33.83 | PK | V | 19.50 | 47.31 | 74.00 | 26.69 |
| 10640.000 | 20.19 | AV | V | 19.50 | 33.67 | 54.00 | 20.33 |
| 15960.000 | 37.90 | PK | V | 22.22 | 54.10 | 74.00 | 19.90 |
| 15960.000 | 24.63 | AV | V | 22.22 | 40.83 | 54.00 | 13.17 |

**5470-5725MHz**

**802.11a:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5500 MHz | | | | | | | |
| 5500.000 | 70.89 | PK | H | 39.32 | 104.19 | N/A | N/A |
| 5500.000 | 60.58 | AV | H | 39.32 | 93.88 | N/A | N/A |
| 5500.000 | 71.65 | PK | V | 39.32 | 104.95 | N/A | N/A |
| 5500.000 | 61.39 | AV | V | 39.32 | 94.69 | N/A | N/A |
| 5470.000 | 29.87 | PK | V | 39.27 | 63.12 | 68.20 | 5.08 |
| 11000.000 | 33.61 | PK | V | 19.83 | 47.42 | 74.00 | 26.58 |
| 11000.000 | 20.18 | AV | V | 19.83 | 33.99 | 54.00 | 20.01 |
| 16500.000 | 35.89 | PK | V | 22.73 | 52.60 | 68.20 | 15.60 |
| Middle Channel: 5580 MHz | | | | | | | |
| 5580.000 | 70.58 | PK | H | 39.43 | 103.99 | N/A | N/A |
| 5580.000 | 61.08 | AV | H | 39.43 | 94.49 | N/A | N/A |
| 5580.000 | 72.12 | PK | V | 39.43 | 105.53 | N/A | N/A |
| 5580.000 | 62.33 | AV | V | 39.43 | 95.74 | N/A | N/A |
| 11160.000 | 35.15 | PK | V | 19.97 | 49.10 | 74.00 | 24.90 |
| 11160.000 | 22.49 | AV | V | 19.97 | 36.44 | 54.00 | 17.56 |
| 16740.000 | 36.34 | PK | V | 23.68 | 54.00 | 68.20 | 14.20 |
| High Channel: 5700 MHz | | | | | | | |
| 5700.000 | 71.38 | PK | H | 39.51 | 104.87 | N/A | N/A |
| 5700.000 | 61.44 | AV | H | 39.51 | 94.93 | N/A | N/A |
| 5700.000 | 72.20 | PK | V | 39.51 | 105.69 | N/A | N/A |
| 5700.000 | 62.51 | AV | V | 39.51 | 96.00 | N/A | N/A |
| 5725.000 | 33.27 | PK | V | 39.48 | 66.73 | 68.20 | 1.47 |
| 11400.000 | 33.62 | PK | V | 20.93 | 48.53 | 74.00 | 25.47 |
| 11400.000 | 20.37 | AV | V | 20.93 | 35.28 | 54.00 | 32.92 |
| 17100.000 | 34.46 | PK | V | 26.19 | 54.63 | 68.20 | 14.23 |
| Cross Channel: 5720 MHz | | | | | | | |
| 5720.000 | 69.44 | PK | H | 39.49 | 102.91 | N/A | N/A |
| 5720.000 | 60.34 | AV | H | 39.49 | 93.81 | N/A | N/A |
| 5720.000 | 71.53 | PK | V | 39.49 | 105.00 | N/A | N/A |
| 5720.000 | 61.39 | AV | V | 39.49 | 94.86 | N/A | N/A |
| 11440.000 | 34.55 | PK | V | 20.81 | 49.34 | 74.00 | 24.66 |
| 11440.000 | 22.03 | AV | V | 20.81 | 36.82 | 54.00 | 17.18 |
| 17160.000 | 33.59 | PK | V | 26.41 | 53.98 | 68.20 | 14.22 |

**802.11n ht20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5500 MHz | | | | | | | |
| 5500.000 | 69.38 | PK | H | 39.32 | 102.68 | N/A | N/A |
| 5500.000 | 59.77 | AV | H | 39.32 | 93.07 | N/A | N/A |
| 5500.000 | 70.69 | PK | V | 39.32 | 103.99 | N/A | N/A |
| 5500.000 | 60.38 | AV | V | 39.32 | 93.68 | N/A | N/A |
| 5470.000 | 30.21 | PK | V | 39.27 | 63.46 | 68.20 | 4.74 |
| 11000.000 | 33.05 | PK | V | 19.83 | 46.86 | 74.00 | 27.14 |
| 11000.000 | 20.52 | AV | V | 19.83 | 34.33 | 54.00 | 19.67 |
| 16500.000 | 35.32 | PK | V | 22.73 | 52.03 | 68.20 | 16.17 |
| Middle Channel: 5580 MHz | | | | | | | |
| 5580.000 | 70.22 | PK | H | 39.43 | 103.63 | N/A | N/A |
| 5580.000 | 60.32 | AV | H | 39.43 | 93.73 | N/A | N/A |
| 5580.000 | 71.12 | PK | V | 39.43 | 104.53 | N/A | N/A |
| 5580.000 | 61.85 | AV | V | 39.43 | 95.26 | N/A | N/A |
| 11160.000 | 35.17 | PK | V | 19.97 | 49.12 | 74.00 | 24.88 |
| 11160.000 | 22.28 | AV | V | 19.97 | 36.23 | 54.00 | 17.77 |
| 16740.000 | 35.22 | PK | V | 23.68 | 52.88 | 68.20 | 15.32 |
| High Channel: 5700 MHz | | | | | | | |
| 5700.000 | 70.65 | PK | H | 39.51 | 104.14 | N/A | N/A |
| 5700.000 | 60.44 | AV | H | 39.51 | 93.93 | N/A | N/A |
| 5700.000 | 71.62 | PK | V | 39.51 | 105.11 | N/A | N/A |
| 5700.000 | 61.76 | AV | V | 39.51 | 95.25 | N/A | N/A |
| 5725.000 | 33.76 | PK | V | 39.48 | 67.22 | 68.20 | 0.98 |
| 11400.000 | 36.52 | PK | V | 20.93 | 51.43 | 74.00 | 22.57 |
| 11400.000 | 23.46 | AV | V | 20.93 | 38.37 | 54.00 | 15.63 |
| 17100.000 | 33.98 | PK | V | 26.19 | 54.15 | 68.20 | 14.05 |
| Cross Channel: 5720 MHz | | | | | | | |
| 5720.000 | 69.33 | PK | H | 39.49 | 102.80 | N/A | N/A |
| 5720.000 | 59.78 | AV | H | 39.49 | 93.25 | N/A | N/A |
| 5720.000 | 70.49 | PK | V | 39.49 | 103.96 | N/A | N/A |
| 5720.000 | 60.27 | AV | V | 39.49 | 93.74 | N/A | N/A |
| 11440.000 | 34.75 | PK | V | 20.81 | 49.54 | 74.00 | 24.46 |
| 11440.000 | 22.01 | AV | V | 20.81 | 36.80 | 54.00 | 17.20 |
| 17160.000 | 33.41 | PK | V | 26.41 | 53.80 | 68.20 | 14.40 |

**802.11 ax hew20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5500 MHz | | | | | | | |
| 5500.000 | 71.45 | PK | H | 39.32 | 104.75 | N/A | N/A |
| 5500.000 | 58.69 | AV | H | 39.32 | 91.99 | N/A | N/A |
| 5500.000 | 72.54 | PK | V | 39.32 | 105.84 | N/A | N/A |
| 5500.000 | 59.87 | AV | V | 39.32 | 93.17 | N/A | N/A |
| 5470.000 | 30.21 | PK | V | 39.27 | 63.46 | 68.20 | 4.74 |
| 11000.000 | 33.61 | PK | V | 19.83 | 47.42 | 74.00 | 26.58 |
| 11000.000 | 20.45 | AV | V | 19.83 | 34.26 | 54.00 | 19.74 |
| 16500.000 | 34.69 | PK | V | 22.73 | 51.40 | 68.20 | 16.80 |
| Middle Channel: 5580 MHz | | | | | | | |
| 5580.000 | 71.41 | PK | H | 39.43 | 104.82 | N/A | N/A |
| 5580.000 | 58.22 | AV | H | 39.43 | 91.63 | N/A | N/A |
| 5580.000 | 72.31 | PK | V | 39.43 | 105.72 | N/A | N/A |
| 5580.000 | 59.38 | AV | V | 39.43 | 92.79 | N/A | N/A |
| 11160.000 | 34.19 | PK | V | 19.97 | 48.14 | 74.00 | 25.86 |
| 11160.000 | 21.53 | AV | V | 19.97 | 35.48 | 54.00 | 18.52 |
| 16740.000 | 36.34 | PK | V | 23.68 | 54.00 | 68.20 | 14.20 |
| High Channel: 5700 MHz | | | | | | | |
| 5700.000 | 72.23 | PK | H | 39.51 | 105.72 | N/A | N/A |
| 5700.000 | 59.71 | AV | H | 39.51 | 93.20 | N/A | N/A |
| 5700.000 | 73.18 | PK | V | 39.51 | 106.67 | N/A | N/A |
| 5700.000 | 60.13 | AV | V | 39.51 | 93.62 | N/A | N/A |
| 5725.000 | 33.72 | PK | V | 39.48 | 67.18 | 68.20 | 1.02 |
| 11400.000 | 33.28 | PK | V | 20.93 | 48.19 | 74.00 | 25.81 |
| 11400.000 | 20.53 | AV | V | 20.93 | 35.44 | 54.00 | 18.56 |
| 17100.000 | 34.25 | PK | V | 26.19 | 54.42 | 68.20 | 13.78 |
| High Channel: 5720 MHz | | | | | | | |
| 5720.000 | 70.41 | PK | H | 39.49 | 103.88 | N/A | N/A |
| 5720.000 | 58.84 | AV | H | 39.49 | 92.31 | N/A | N/A |
| 5720.000 | 72.69 | PK | V | 39.49 | 106.16 | N/A | N/A |
| 5720.000 | 60.12 | AV | V | 39.49 | 93.59 | N/A | N/A |
| 11440.000 | 35.69 | PK | V | 20.81 | 50.48 | 74.00 | 23.52 |
| 11440.000 | 23.44 | AV | V | 20.81 | 38.23 | 54.00 | 15.77 |
| 17160.000 | 33.64 | PK | V | 26.41 | 54.03 | 68.20 | 14.17 |

**5725-5850MHz**

**802.11a:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5745 MHz | | | | | | | |
| 5745.000 | 71.15 | PK | H | 39.46 | 104.59 | N/A | N/A |
| 5745.000 | 61.35 | AV | H | 39.46 | 94.79 | N/A | N/A |
| 5745.000 | 72.73 | PK | V | 39.46 | 106.17 | N/A | N/A |
| 5745.000 | 62.29 | AV | V | 39.46 | 95.73 | N/A | N/A |
| 11490.000 | 34.83 | PK | V | 20.67 | 49.48 | 74.00 | 24.52 |
| 11490.000 | 21.41 | AV | V | 20.67 | 36.06 | 54.00 | 17.94 |
| 17235.000 | 34.28 | PK | V | 26.76 | 55.02 | 68.20 | 13.18 |
| Middle Channel: 5785 MHz | | | | | | | |
| 5785.000 | 70.23 | PK | H | 39.44 | 103.65 | N/A | N/A |
| 5785.000 | 60.49 | AV | H | 39.44 | 93.91 | N/A | N/A |
| 5785.000 | 71.48 | PK | V | 39.44 | 104.90 | N/A | N/A |
| 5785.000 | 61.53 | AV | V | 39.44 | 94.95 | N/A | N/A |
| 11570.000 | 34.28 | PK | V | 20.83 | 49.09 | 74.00 | 24.91 |
| 11570.000 | 21.30 | AV | V | 20.83 | 36.11 | 54.00 | 17.89 |
| 17355.000 | 34.72 | PK | V | 27.74 | 56.44 | 68.20 | 11.76 |
| High Channel: 5825 MHz | | | | | | | |
| 5825.000 | 69.52 | PK | H | 39.46 | 102.96 | N/A | N/A |
| 5825.000 | 59.83 | AV | H | 39.46 | 93.27 | N/A | N/A |
| 5825.000 | 70.55 | PK | V | 39.46 | 103.99 | N/A | N/A |
| 5825.000 | 60.78 | AV | V | 39.46 | 94.22 | N/A | N/A |
| 11650.000 | 35.88 | PK | V | 21.07 | 50.93 | 74.00 | 23.07 |
| 11650.000 | 22.12 | AV | V | 21.07 | 37.17 | 54.00 | 16.83 |
| 17475.000 | 34.23 | PK | V | 28.61 | 56.82 | 68.20 | 11.38 |

**802.11n ht20:**

| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5745 MHz | | | | | | | |
| 5745.000 | 71.58 | PK | H | 39.46 | 105.02 | N/A | N/A |
| 5745.000 | 61.43 | AV | H | 39.46 | 94.87 | N/A | N/A |
| 5745.000 | 72.79 | PK | V | 39.46 | 106.23 | N/A | N/A |
| 5745.000 | 62.20 | AV | V | 39.46 | 95.64 | N/A | N/A |
| 11490.000 | 34.86 | PK | V | 20.67 | 49.51 | 74.00 | 24.49 |
| 11490.000 | 21.20 | AV | V | 20.67 | 35.85 | 54.00 | 18.15 |
| 17235.000 | 35.21 | PK | V | 26.76 | 55.95 | 68.20 | 12.25 |
| Middle Channel: 5785 MHz | | | | | | | |
| 5785.000 | 70.56 | PK | H | 39.44 | 103.98 | N/A | N/A |
| 5785.000 | 60.63 | AV | H | 39.44 | 94.05 | N/A | N/A |
| 5785.000 | 71.48 | PK | V | 39.44 | 104.90 | N/A | N/A |
| 5785.000 | 61.49 | AV | V | 39.44 | 94.91 | N/A | N/A |
| 11570.000 | 33.86 | PK | V | 20.83 | 48.67 | 74.00 | 25.33 |
| 11570.000 | 20.47 | AV | V | 20.83 | 35.28 | 54.00 | 18.72 |
| 17355.000 | 33.85 | PK | V | 27.74 | 55.57 | 68.20 | 12.63 |
| High Channel: 5825 MHz | | | | | | | |
| 5825.000 | 69.86 | PK | H | 39.46 | 103.30 | N/A | N/A |
| 5825.000 | 59.77 | AV | H | 39.46 | 93.21 | N/A | N/A |
| 5825.000 | 70.41 | PK | V | 39.46 | 103.85 | N/A | N/A |
| 5825.000 | 60.33 | AV | V | 39.46 | 93.77 | N/A | N/A |
| 11650.000 | 35.47 | PK | V | 21.07 | 50.52 | 74.00 | 23.48 |
| 11650.000 | 22.42 | AV | V | 21.07 | 37.47 | 54.00 | 16.53 |
| 17475.000 | 33.79 | PK | V | 28.61 | 56.38 | 68.20 | 11.82 |

**802.11 ax hew20:**

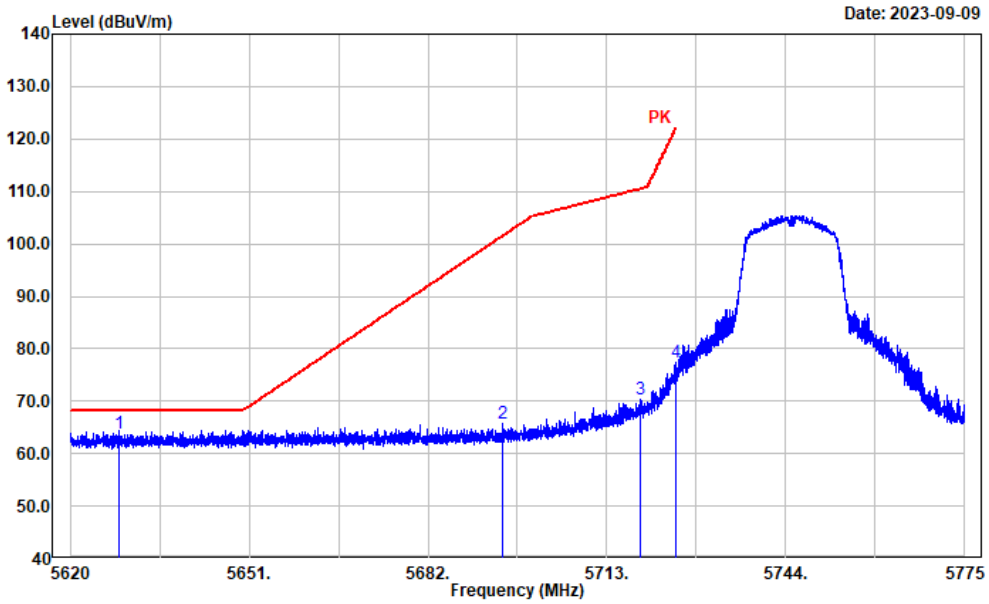
| Frequency (MHz) | Receiver | | Polar (H/V) | Factor (dB/m) | Result (dBμV/m) | Limit (dBμV/m) | Margin (dB) |
|---|---|---|---|---|---|---|---|
| | Reading (dBμV) | Detector | | | | | |
| Low Channel: 5745 MHz | | | | | | | |
| 5745.000 | 73.20 | PK | H | 39.46 | 106.64 | N/A | N/A |
| 5745.000 | 60.23 | AV | H | 39.46 | 93.67 | N/A | N/A |
| 5745.000 | 74.12 | PK | V | 39.46 | 107.56 | N/A | N/A |
| 5745.000 | 62.04 | AV | V | 39.46 | 95.48 | N/A | N/A |
| 11490.000 | 33.27 | PK | V | 20.67 | 47.92 | 74.00 | 26.08 |
| 11490.000 | 20.45 | AV | V | 20.67 | 35.10 | 54.00 | 18.90 |
| 17235.000 | 34.56 | PK | V | 26.76 | 55.30 | 68.20 | 12.90 |
| Middle Channel: 5785 MHz | | | | | | | |
| 5785.000 | 72.14 | PK | H | 39.44 | 105.56 | N/A | N/A |
| 5785.000 | 59.37 | AV | H | 39.44 | 92.79 | N/A | N/A |
| 5785.000 | 73.65 | PK | V | 39.44 | 107.07 | N/A | N/A |
| 5785.000 | 60.45 | AV | V | 39.44 | 93.87 | N/A | N/A |
| 11570.000 | 33.31 | PK | V | 20.83 | 48.12 | 74.00 | 25.88 |
| 11570.000 | 20.69 | AV | V | 20.83 | 35.50 | 54.00 | 18.50 |
| 17355.000 | 33.43 | PK | V | 27.74 | 55.15 | 68.20 | 13.05 |
| High Channel: 5825 MHz | | | | | | | |
| 5825.000 | 71.45 | PK | H | 39.46 | 104.89 | N/A | N/A |
| 5825.000 | 58.77 | AV | H | 39.46 | 92.21 | N/A | N/A |
| 5825.000 | 72.56 | PK | V | 39.46 | 106.00 | N/A | N/A |
| 5825.000 | 59.44 | AV | V | 39.46 | 92.88 | N/A | N/A |
| 11650.000 | 33.38 | PK | V | 21.07 | 48.43 | 74.00 | 25.57 |
| 11650.000 | 20.39 | AV | V | 21.07 | 35.44 | 54.00 | 18.56 |
| 17475.000 | 33.39 | PK | V | 28.61 | 55.98 | 68.20 | 12.22 |

*Note:*
*Result = Reading + Factor- Distance extrapolation Factor*
*Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB*

**Worst Test plots for Band Edge Measurements (Radiated)**

| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5620-5775MHz** | **Ant. Polar. :** | **Horizontal** |

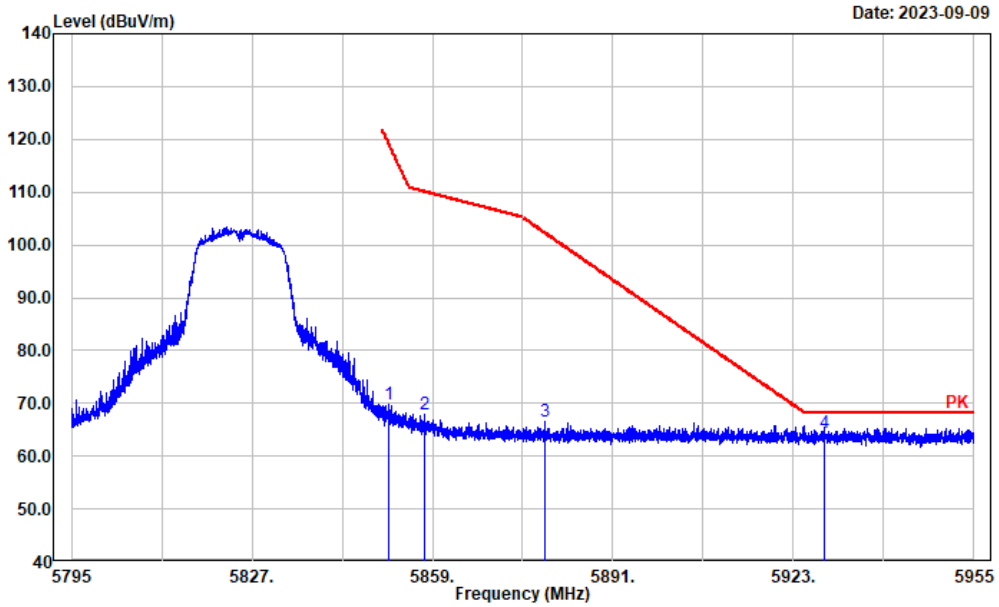
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5628.589 | 30.53 | 33.45 | 63.98 | 68.20 | 4.22 | Peak |
| 2 | 5694.911 | 32.27 | 33.51 | 65.78 | 101.45 | 35.67 | Peak |
| 3 | 5718.848 | 36.88 | 33.49 | 70.37 | 110.48 | 40.11 | Peak |
| 4 | 5724.832 | 44.02 | 33.48 | 77.50 | 121.82 | 44.32 | Peak |

| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5795-5955MHz** | **Ant. Polar. :** | **Horizontal** |

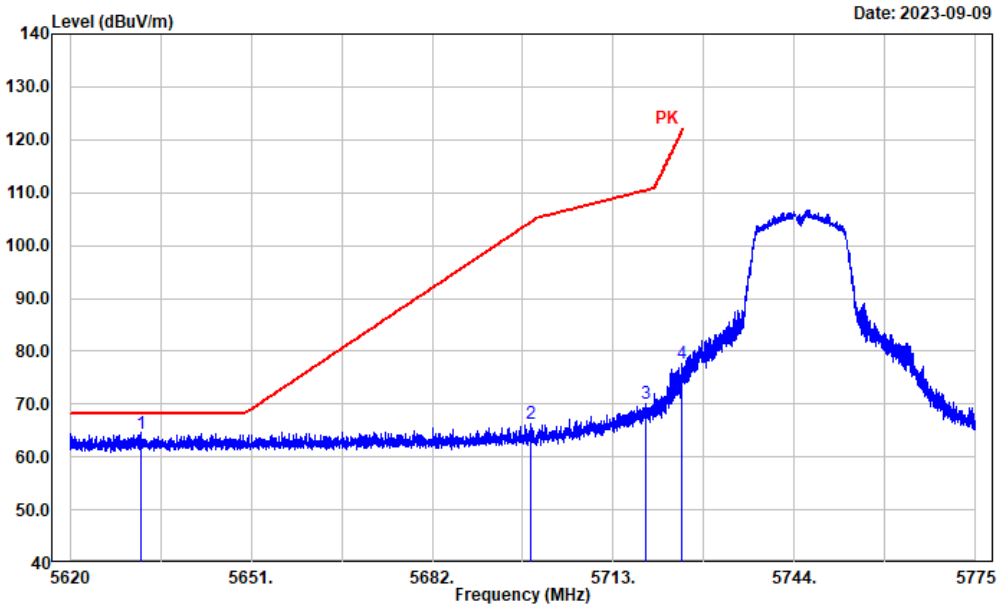
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5851.299 | 36.20 | 33.50 | 69.70 | 119.24 | 49.54 | Peak |
| 2 | 5857.541 | 34.40 | 33.52 | 67.92 | 110.09 | 42.17 | Peak |
| 3 | 5879.017 | 32.93 | 33.62 | 66.55 | 102.22 | 35.67 | Peak |
| 4 | 5928.371 | 30.65 | 33.67 | 64.32 | 68.20 | 3.88 | Peak |

| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5620-5775MHz** | **Ant. Polar. :** | **Vertical** |

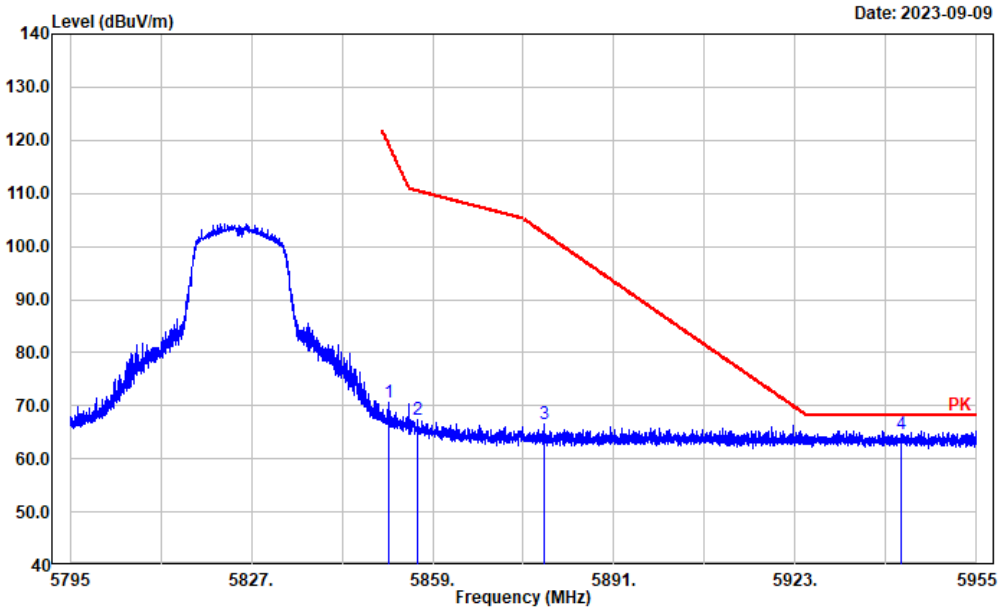
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5632.216 | 30.88 | 33.46 | 64.34 | 68.20 | 3.86 | Peak |
| 2 | 5698.942 | 32.89 | 33.51 | 66.40 | 104.42 | 38.02 | Peak |
| 3 | 5718.631 | 36.66 | 33.49 | 70.15 | 110.42 | 40.27 | Peak |
| 4 | 5724.708 | 44.24 | 33.48 | 77.72 | 121.53 | 43.81 | Peak |

| 802.11a | | | |
|---|---|---|---|
| **Test Channel:** | **5795-5955MHz** | **Ant. Polar. :** | **Vertical** |

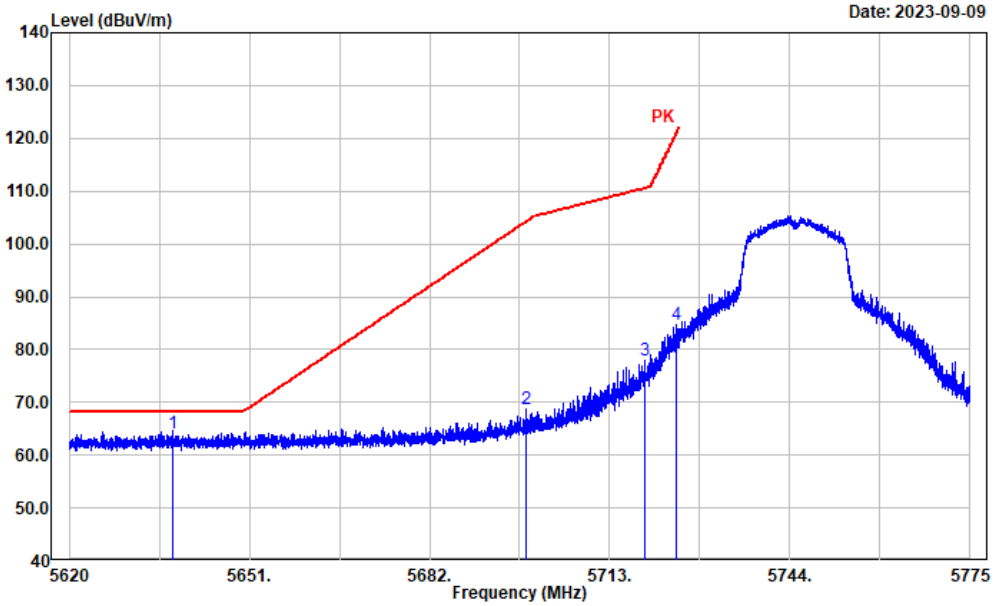
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5851.139 | 37.13 | 33.49 | 70.62 | 119.60 | 48.98 | Peak |
| 2 | 5856.260 | 33.78 | 33.52 | 67.30 | 110.45 | 43.15 | Peak |
| 3 | 5878.601 | 32.97 | 33.61 | 66.58 | 102.52 | 35.94 | Peak |
| 4 | 5941.621 | 30.87 | 33.66 | 64.53 | 68.20 | 3.67 | Peak |

| 802.11n ht20 | | | |
|---|---|---|---|
| **Test Channel:** | **5620-5775MHz** | **Ant. Polar. :** | **Horizontal** |

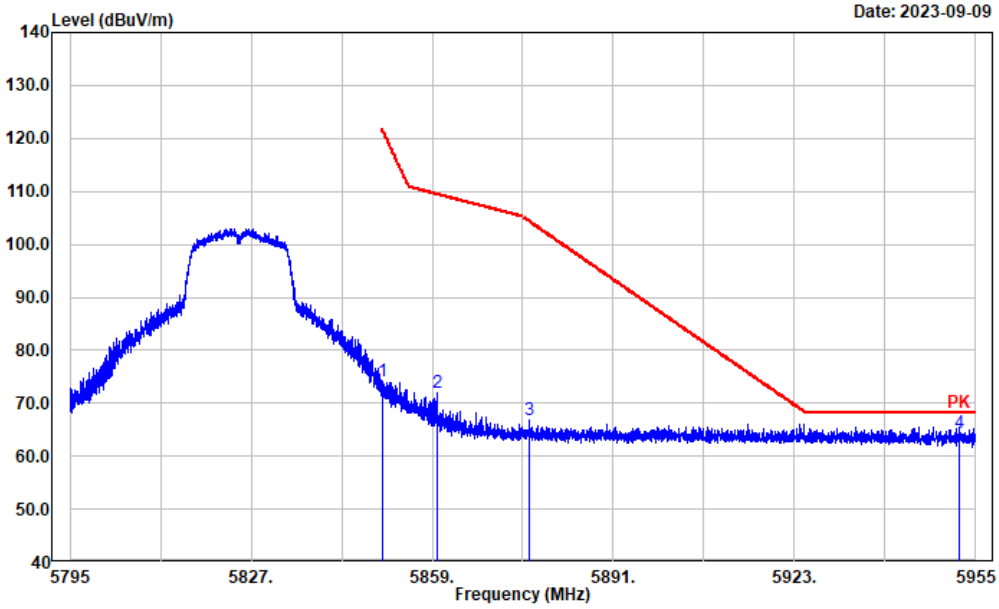
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5637.859 | 30.55 | 33.48 | 64.03 | 68.20 | 4.17 | Peak |
| 2 | 5698.632 | 35.22 | 33.51 | 68.73 | 104.19 | 35.46 | Peak |
| 3 | 5719.065 | 44.32 | 33.49 | 77.81 | 110.54 | 32.73 | Peak |
| 4 | 5724.429 | 51.10 | 33.48 | 84.58 | 120.90 | 36.32 | Peak |

| 802.11 n ht20 | | | |
|---|---|---|---|
| **Test Channel:** | **5795-5955MHz** | **Ant. Polar. :** | **Horizontal** |

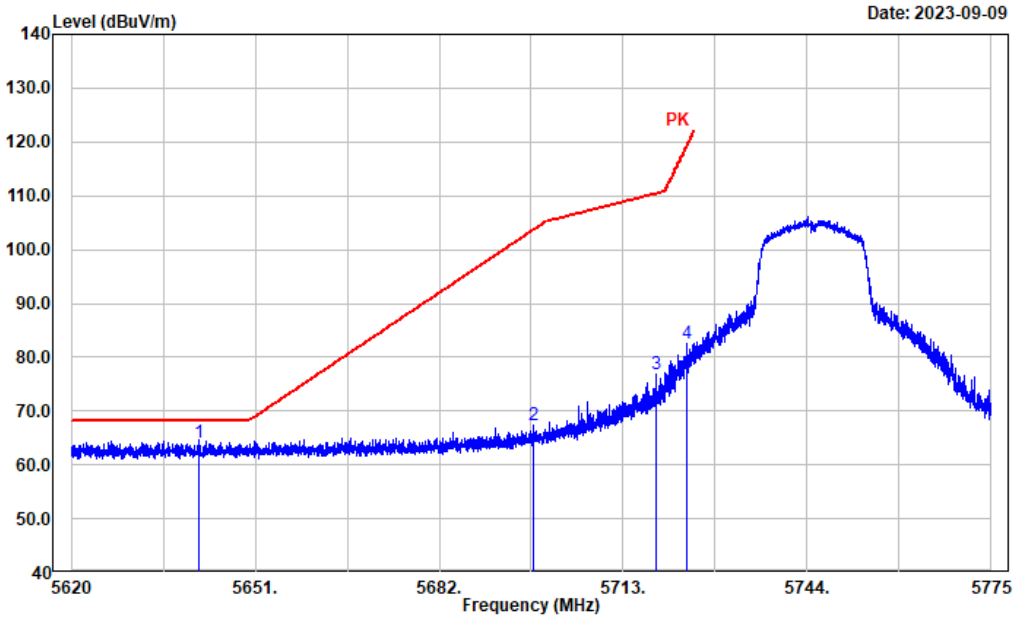
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5850.339 | 40.62 | 33.49 | 74.11 | 121.43 | 47.32 | Peak |
| 2 | 5859.973 | 38.41 | 33.53 | 71.94 | 109.41 | 37.47 | Peak |
| 3 | 5876.136 | 33.31 | 33.60 | 66.91 | 104.36 | 37.45 | Peak |
| 4 | 5952.087 | 30.78 | 33.64 | 64.42 | 68.20 | 3.78 | Peak |

| 802.11 n ht20 | | | |
|---|---|---|---|
| **Test Channel:** | **5620-5775MHz** | **Ant. Polar. :** | **Vertical** |

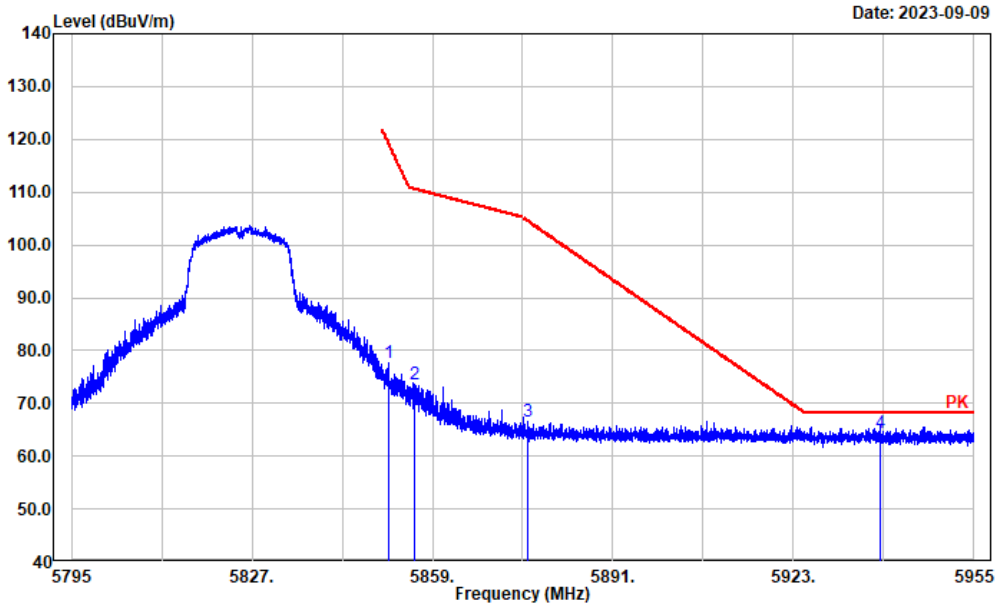
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5641.518 | 30.77 | 33.48 | 64.25 | 68.20 | 3.95 | Peak |
| 2 | 5697.980 | 33.77 | 33.51 | 67.28 | 103.71 | 36.43 | Peak |
| 3 | 5718.631 | 43.42 | 33.49 | 76.91 | 110.42 | 33.51 | Peak |
| 4 | 5723.623 | 49.00 | 33.48 | 82.48 | 119.06 | 36.58 | Peak |

| 802.11 n ht20 | | | |
|---|---|---|---|
| **Test Channel:** | **5795-5955MHz** | **Ant. Polar. :** | **Vertical** |

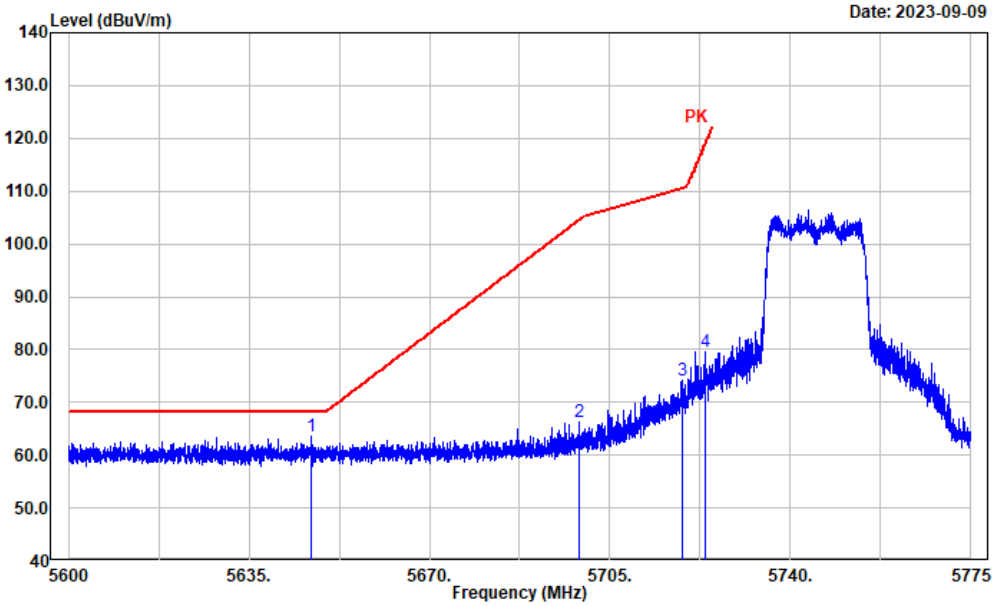
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5851.139 | 44.06 | 33.49 | 77.55 | 119.60 | 42.05 | Peak |
| 2 | 5855.812 | 40.05 | 33.51 | 73.56 | 110.57 | 37.01 | Peak |
| 3 | 5875.912 | 33.00 | 33.60 | 66.60 | 104.52 | 37.92 | Peak |
| 4 | 5938.421 | 30.69 | 33.66 | 64.35 | 68.20 | 3.85 | Peak |

| 802.11ax hew20 | | | |
|---|---|---|---|
| **Test Channel:** | **5600-5775MHz** | **Ant. Polar. :** | **Horizontal** |

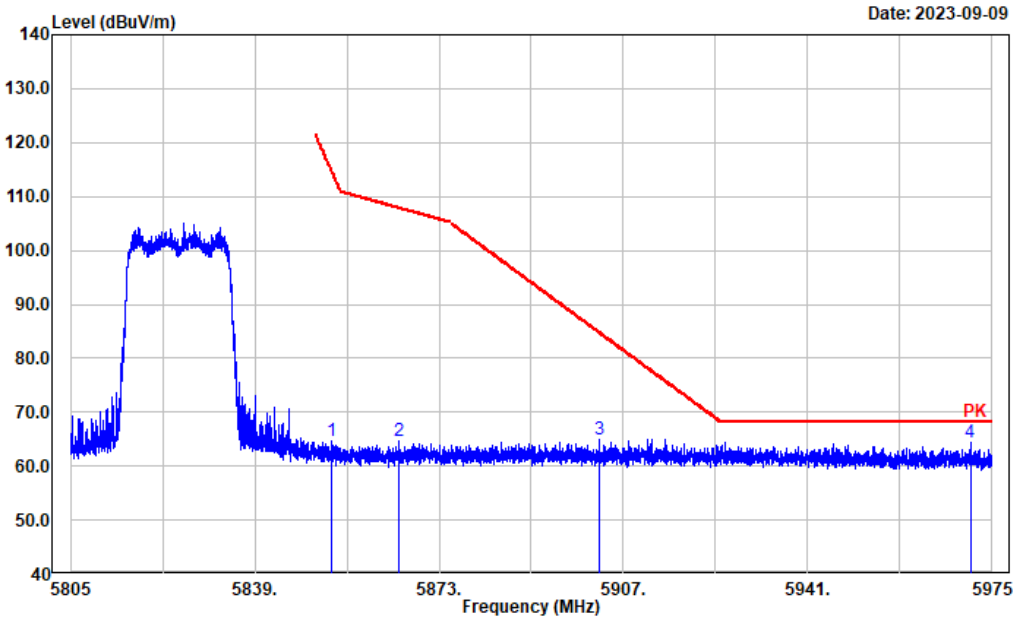
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5646.979 | 29.97 | 33.49 | 63.46 | 68.20 | 4.74 | Peak |
| 2 | 5699.070 | 32.68 | 33.51 | 66.19 | 104.51 | 38.32 | Peak |
| 3 | 5719.094 | 40.59 | 33.49 | 74.08 | 110.55 | 36.47 | Peak |
| 4 | 5723.400 | 45.99 | 33.48 | 79.47 | 118.55 | 39.08 | Peak |

| 802.11ax hew20 | | | |
|---|---|---|---|
| **Test Channel:** | **5805-5975MHz** | **Ant. Polar. :** | **Horizontal** |

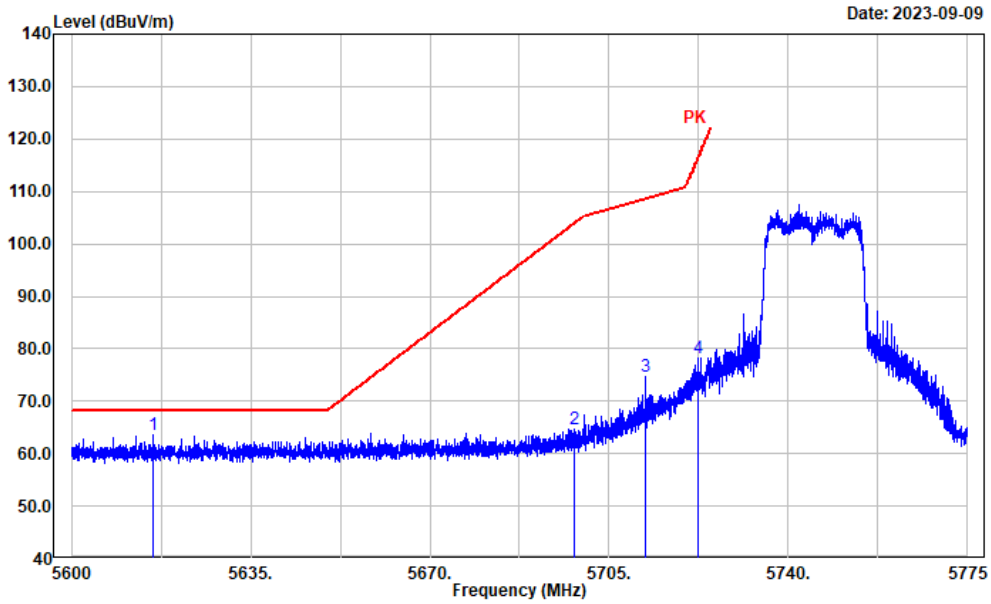
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5853.222 | 31.12 | 33.50 | 64.62 | 114.85 | 50.23 | Peak |
| 2 | 5865.634 | 30.99 | 33.56 | 64.55 | 107.82 | 43.27 | Peak |
| 3 | 5902.633 | 31.32 | 33.71 | 65.03 | 84.71 | 19.68 | Peak |
| 4 | 5970.987 | 30.59 | 33.69 | 64.28 | 68.20 | 3.92 | Peak |

| 802.11ax hew20 | | | |
|---|---|---|---|
| **Test Channel:** | **5600-5775MHz** | **Ant. Polar. :** | **Vertical** |

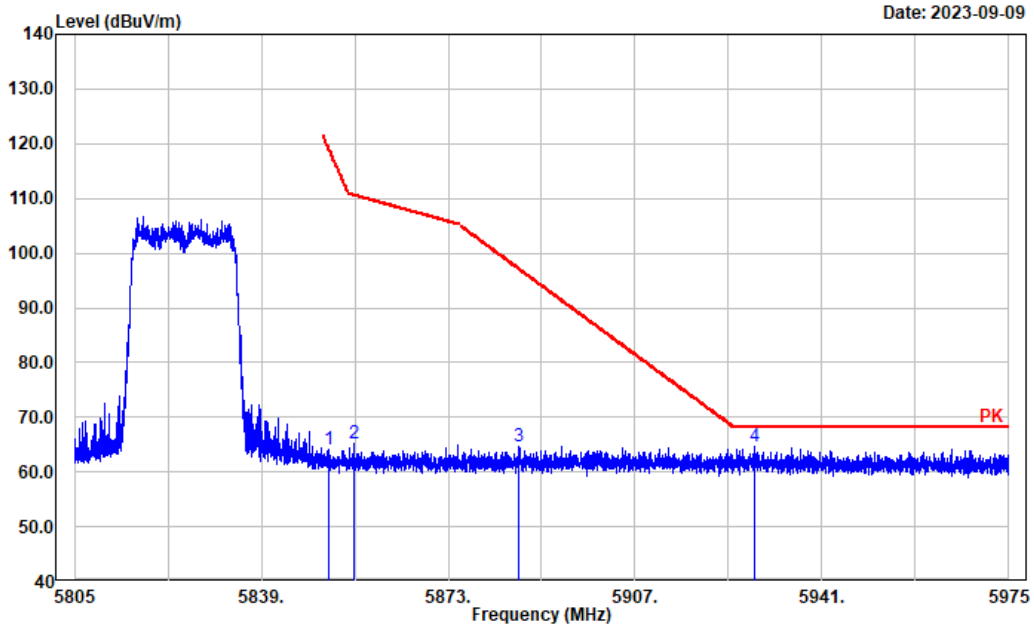
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5616.068 | 30.20 | 33.44 | 63.64 | 68.20 | 4.56 | Peak |
| 2 | 5698.195 | 31.15 | 33.51 | 64.66 | 103.87 | 39.21 | Peak |
| 3 | 5712.163 | 41.24 | 33.49 | 74.73 | 108.61 | 33.88 | Peak |
| 4 | 5722.314 | 44.83 | 33.48 | 78.31 | 116.08 | 37.77 | Peak |

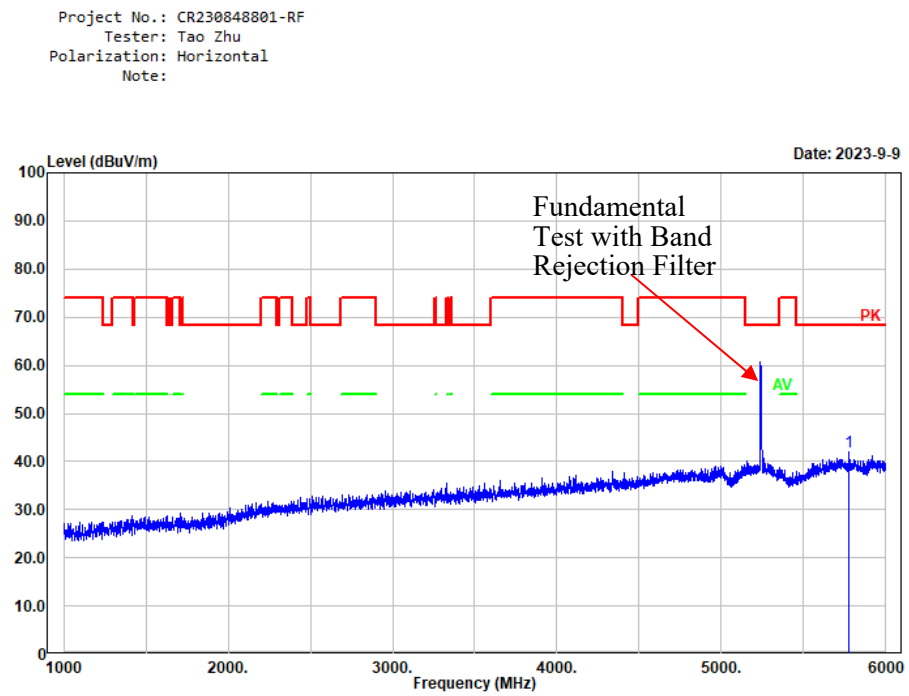
| 802.11ax hew20 | | | |
|---|---|---|---|
| **Test Channel:** | **5805-5975MHz** | **Ant. Polar. :** | **Vertical** |

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5851.283 | 30.51 | 33.50 | 64.01 | 119.27 | 55.26 | Peak |
| 2 | 5855.738 | 31.57 | 33.51 | 65.08 | 110.59 | 45.51 | Peak |
| 3 | 5885.868 | 31.06 | 33.64 | 64.70 | 97.13 | 32.43 | Peak |
| 4 | 5928.615 | 31.01 | 33.67 | 64.68 | 68.20 | 3.52 | Peak |

**Worst Test plots** (802.11ax hew20 5240 MHz)

| Horizontal | |
|---|---|
| 1-6GHz |  |

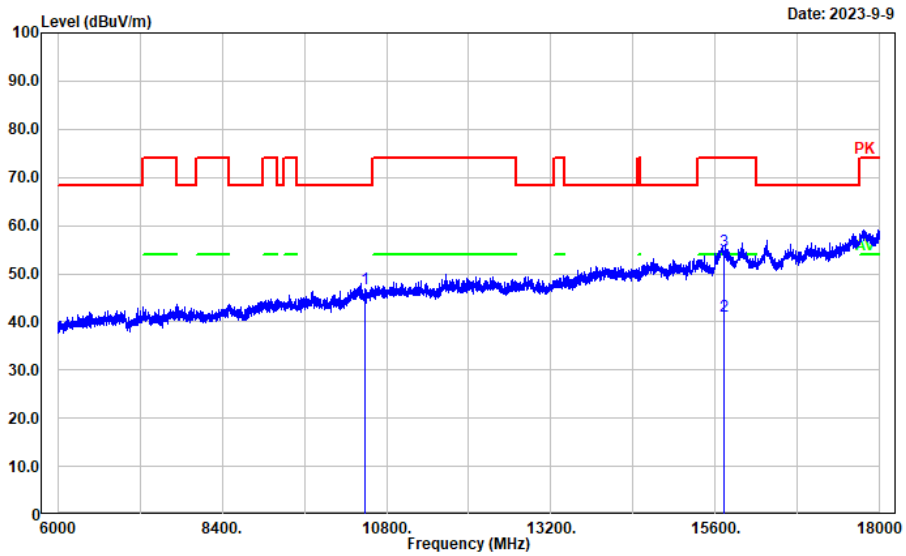


| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5775.955 | 35.01 | 6.99 | 42.00 | 68.20 | 26.20 | Peak |

**Horizontal**

6-18GHz

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

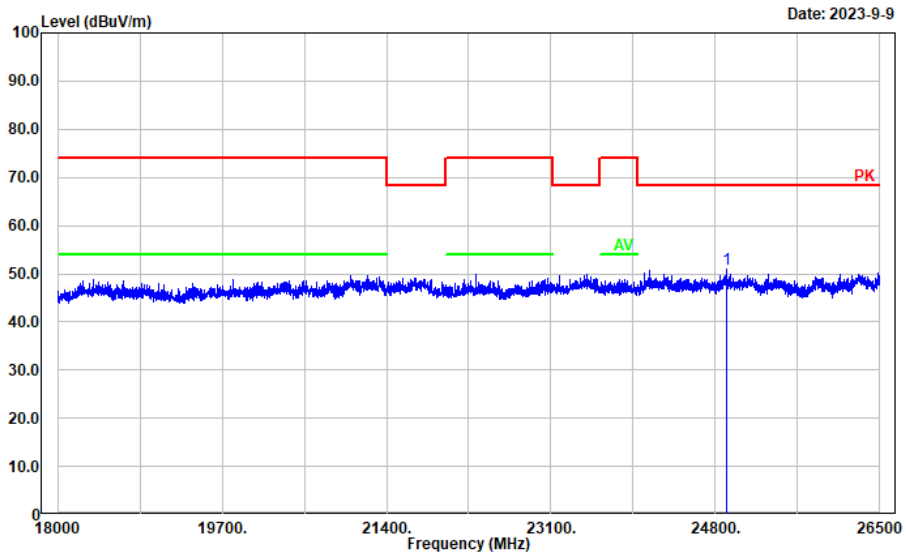



| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 34.04 | 12.84 | 46.88 | 68.20 | 21.32 | Peak |
| 2 | 15720.000 | 24.94 | 16.26 | 41.20 | 54.00 | 12.80 | Average |
| 3 | 15720.000 | 38.42 | 16.26 | 54.68 | 74.00 | 19.32 | Peak |

**Horizontal**

18-26.5GHz

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

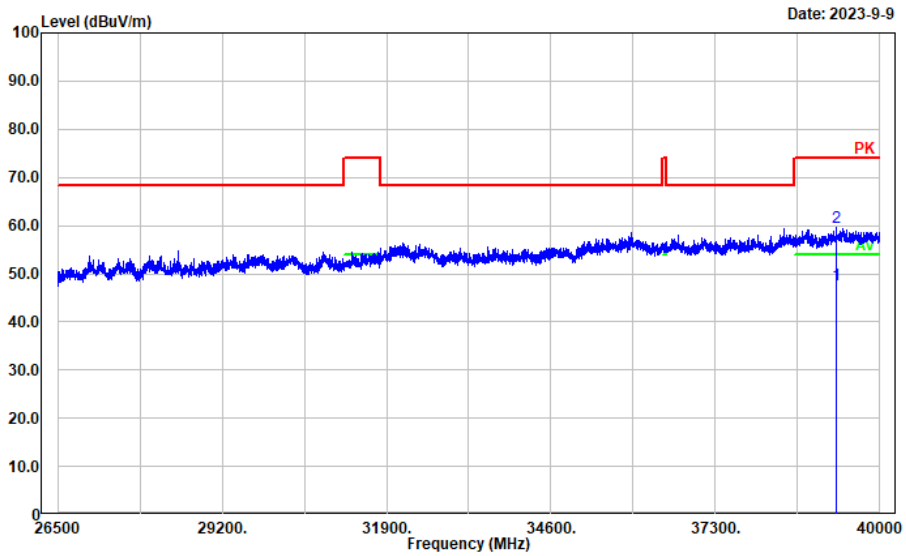



| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 24910.180 | 50.67 | 0.29 | 50.96 | 68.20 | 17.24 | Peak |

**Horizontal**

26.5-40GHz

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Horizontal
Note:

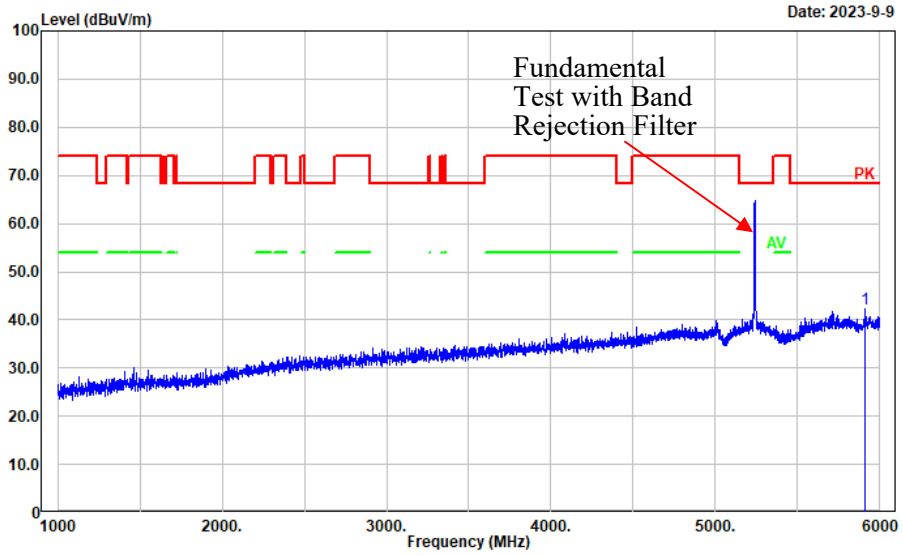



| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 39289.760 | 37.40 | 10.18 | 47.58 | 54.00 | 6.42 | Average |
| 2 | 39289.760 | 49.53 | 10.18 | 59.71 | 74.00 | 14.29 | Peak |

**Vertical**

1-6GHz

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: vertical
Note:

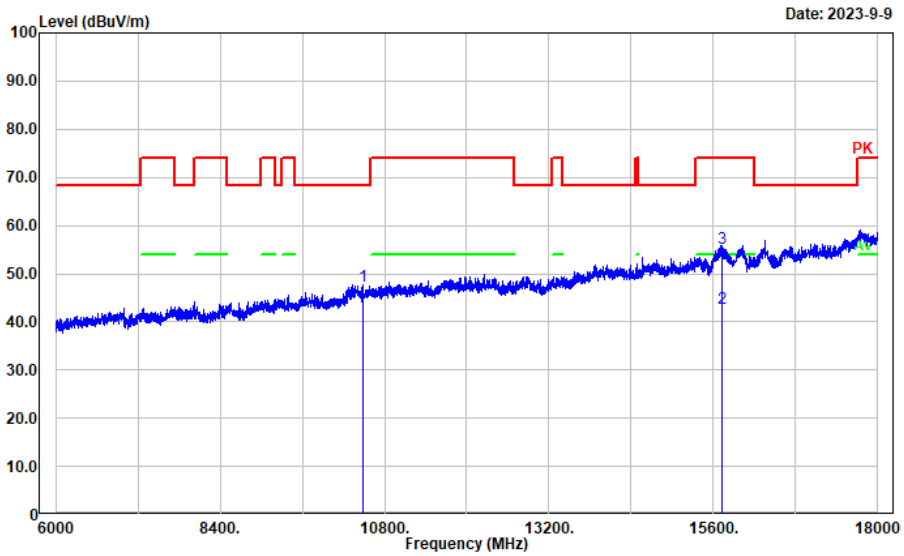



| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 5910.982 | 35.10 | 7.21 | 42.31 | 68.20 | 25.89 | Peak |

**Vertical**

6-18GHz

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:

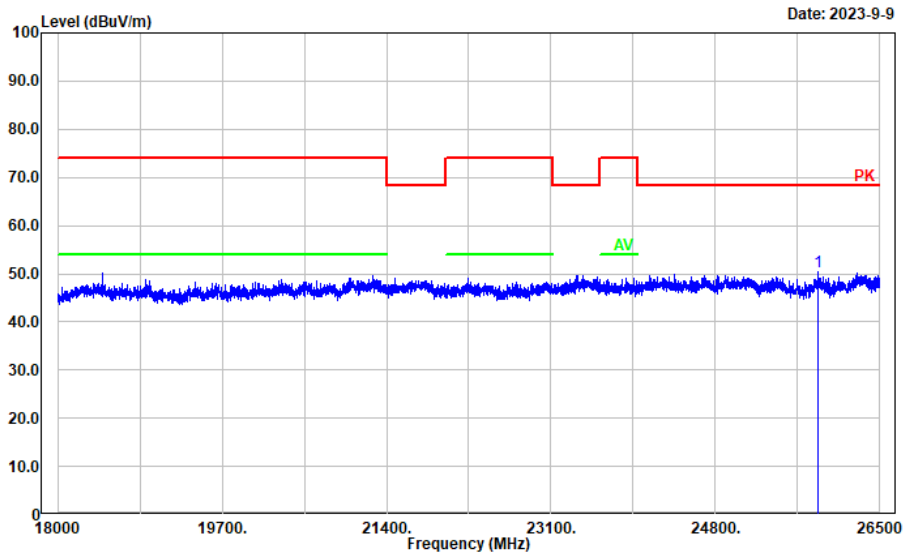



| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 10480.000 | 34.55 | 12.84 | 47.39 | 68.20 | 20.81 | Peak |
| 2 | 15720.000 | 26.51 | 16.26 | 42.77 | 54.00 | 11.23 | Average |
| 3 | 15720.000 | 39.09 | 16.26 | 55.35 | 74.00 | 18.65 | Peak |

**Vertical**

18-26.5GHz

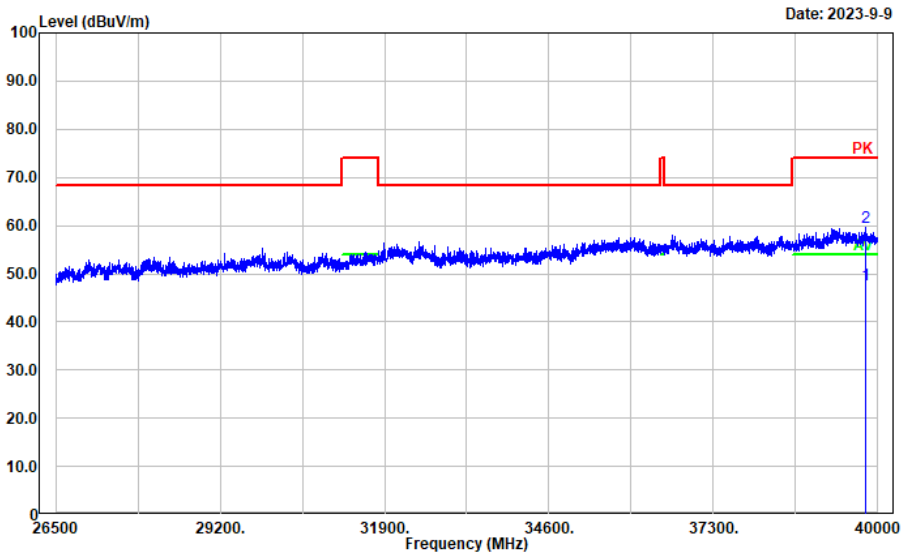
Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 25865.770 | 50.23 | 0.21 | 50.44 | 68.20 | 17.76 | Peak |

| Vertical | |
|---|---|
| 26.5-40GHz | |

Project No.: CR230848801-RF
Tester: Tao Zhu
Polarization: Vertical
Note:




| No. | Frequency (MHz) | Reading (dBµV) | Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector |
|---|---|---|---|---|---|---|---|
| 1 | 39789.360 | 38.71 | 8.95 | 47.66 | 54.00 | 6.34 | Average |
| 2 | 39789.360 | 50.62 | 8.95 | 59.57 | 74.00 | 14.43 | Peak |

## 4.3 Emission Bandwidth:

| | | | |
|---|---|---|---|
| Serial Number: | 2A8G-2 | Test Date: | 2023/9/11-2023/9/12 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | LingLing Li | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.9-26.2 | Relative Humidity: (%) | 60-62 | ATM Pressure: (kPa) | 100.2-100.5 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 100147 | 2023/3/31 | 2024/3/30 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211002 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---|---|---|---|
| 802.11a | 5180 | 20.288 | 16.987 |
| | 5200 | 20.288 | 16.987 |
| | 5240 | 20.385 | 16.987 |
| 802.11n ht20 | 5180 | 20.481 | 17.821 |
| | 5200 | 20.673 | 17.821 |
| | 5240 | 20.673 | 17.756 |
| 802.11ax hew20 | 5180 | 20.865 | 18.910 |
| | 5200 | 20.769 | 18.910 |
| | 5240 | 20.769 | 18.846 |
| Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth | | | |

5250-5350 MHz:

| Test Modes | Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---|---|---|---|
| 802.11a | 5260 | 20.673 | 16.987 |
| | 5280 | 20.481 | 16.987 |
| | 5320 | 20.577 | 16.987 |
| 802.11n ht20 | 5260 | 20.865 | 17.756 |
| | 5280 | 20.769 | 17.821 |
| | 5320 | 20.769 | 17.756 |
| 802.11ax hew20 | 5260 | 20.962 | 18.91 |
| | 5280 | 20.865 | 18.91 |
| | 5320 | 20.865 | 18.91 |

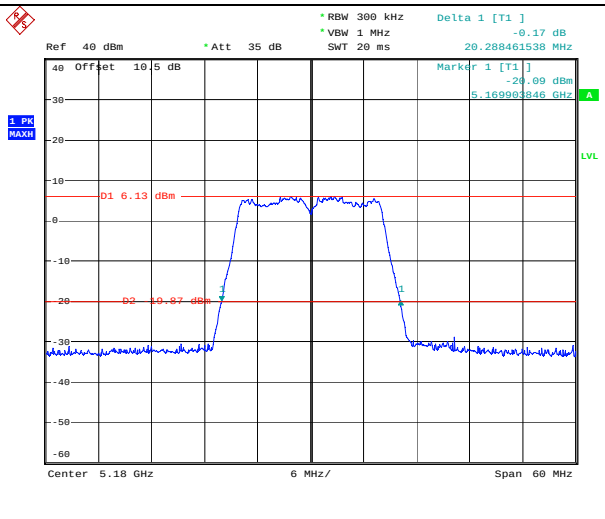
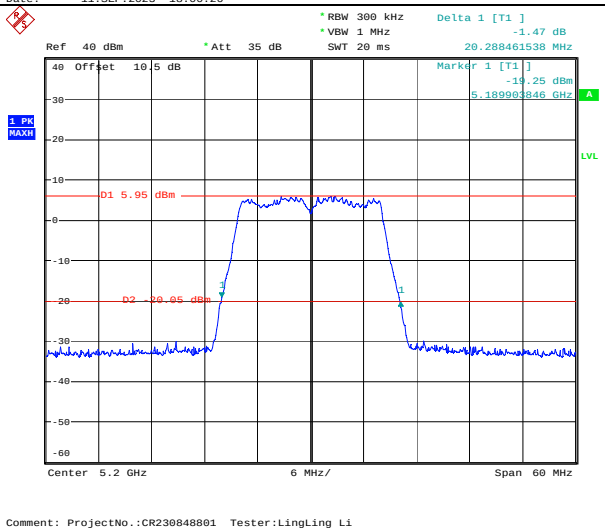
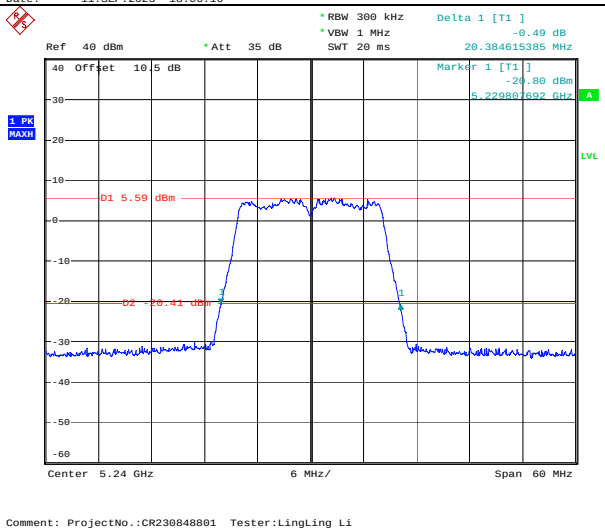
5470-5725 MHz:

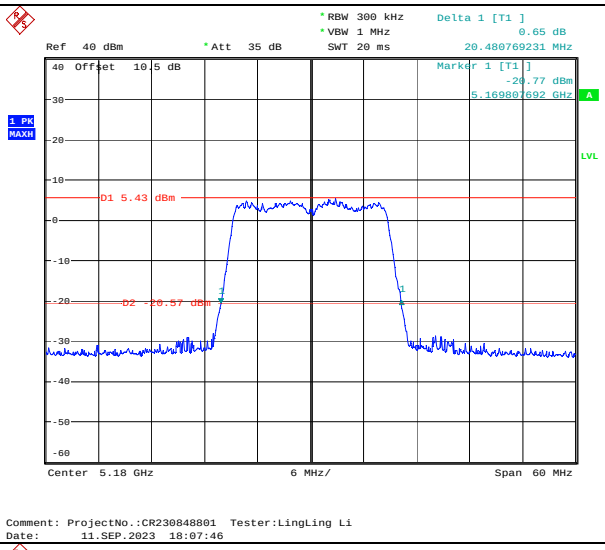
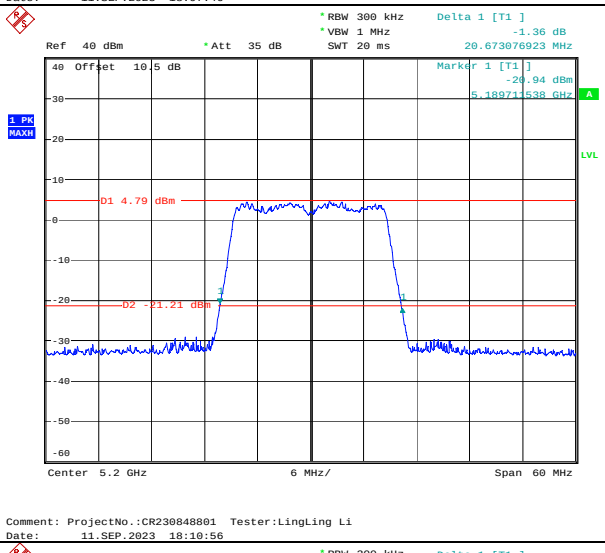
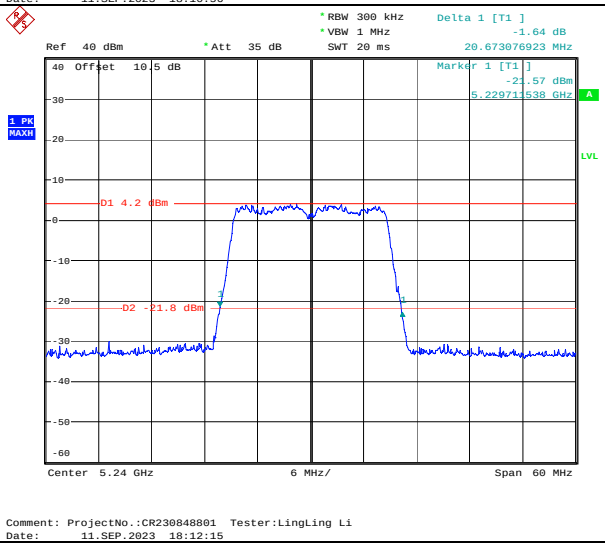
| Test Modes | Test Frequency (MHz) | 26 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---|---|---|---|
| 802.11a | 5500 | 25.385 | 17.115 |
| | 5580 | 34.231 | 17.5 |
| | 5700 | 47.115 | 28.045 |
| | 5720 | 45.833 | 27.724 |
| 802.11n ht20 | 5500 | 28.077 | 17.885 |
| | 5580 | 41.987 | 18.782 |
| | 5700 | 49.519 | 32.051 |
| | 5720 | 46.795 | 32.772 |
| 802.11ax hew20 | 5500 | 20.962 | 18.91 |
| | 5580 | 26.923 | 18.91 |
| | 5700 | 46.314 | 19.936 |
| | 5720 | 47.115 | 22.179 |

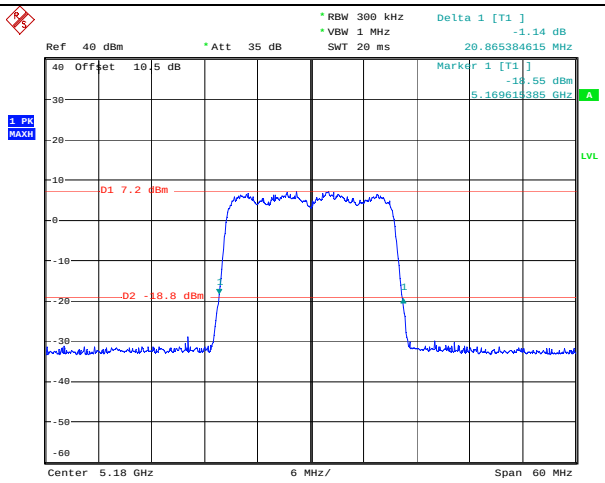
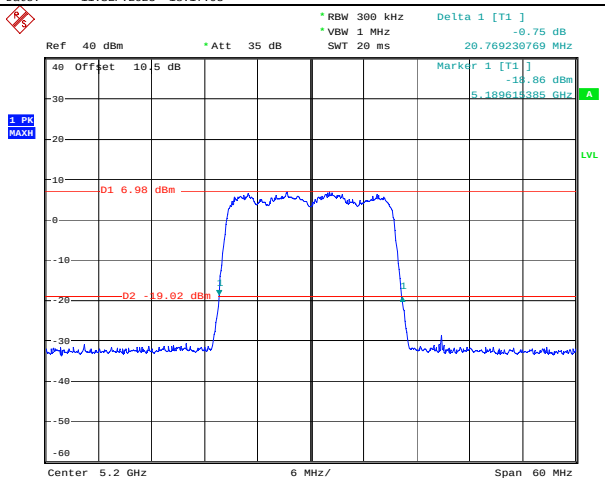
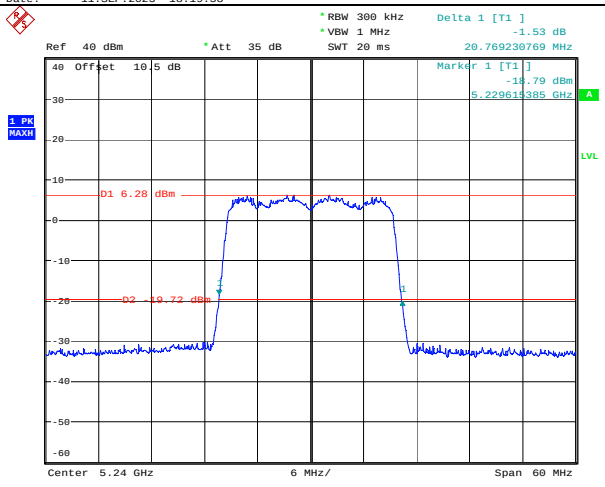
5725-5850 MHz:

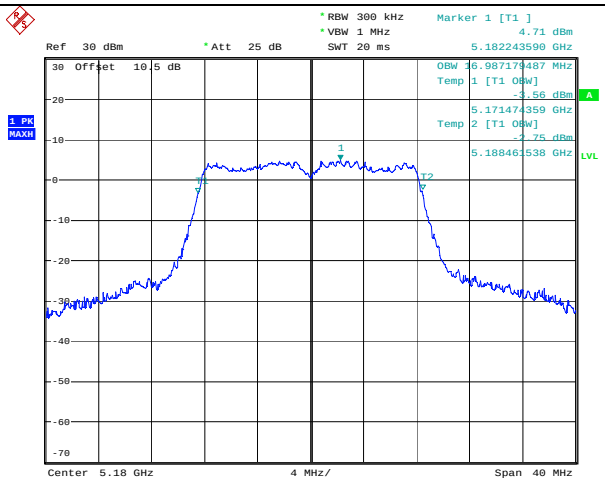
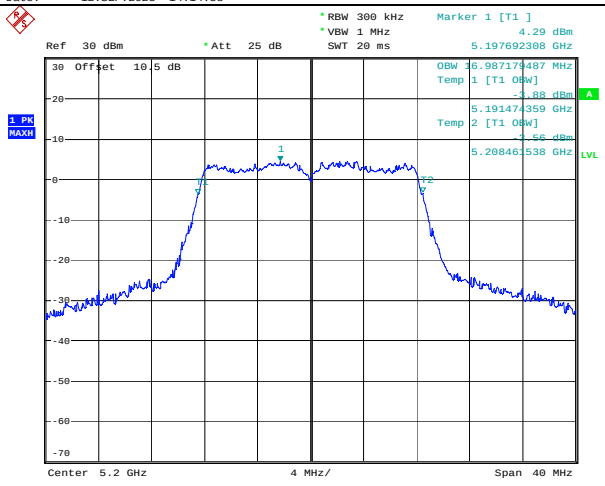
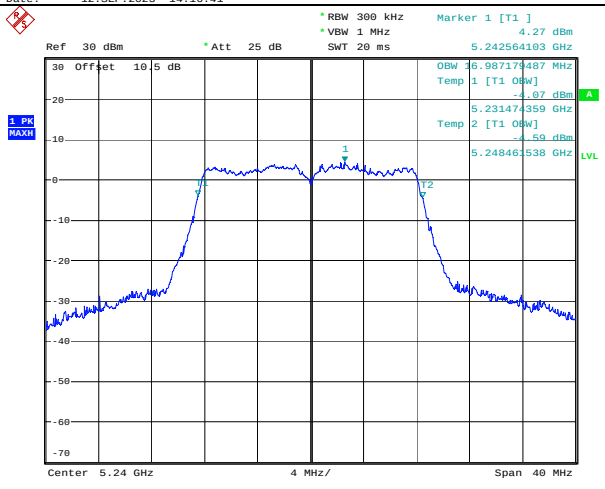
| Test Modes | Test Frequency (MHz) | 6 dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) |
|---|---|---|---|
| 802.11a | 5745 | 16.474 | 37.692 |
| | 5785 | 16.474 | 36.538 |
| | 5825 | 16.474 | 32.5 |
| 802.11n ht20 | 5745 | 17.628 | 39.327 |
| | 5785 | 17.628 | 39.038 |
| | 5825 | 17.5 | 33.365 |
| 802.11ax hew20 | 5745 | 18.782 | 34.615 |
| | 5785 | 18.526 | 33.077 |
| | 5825 | 18.269 | 27.019 |
| Note:6dB Emission Bandwidth Limit: ≥0.5 MHz<br>The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth. | | | |

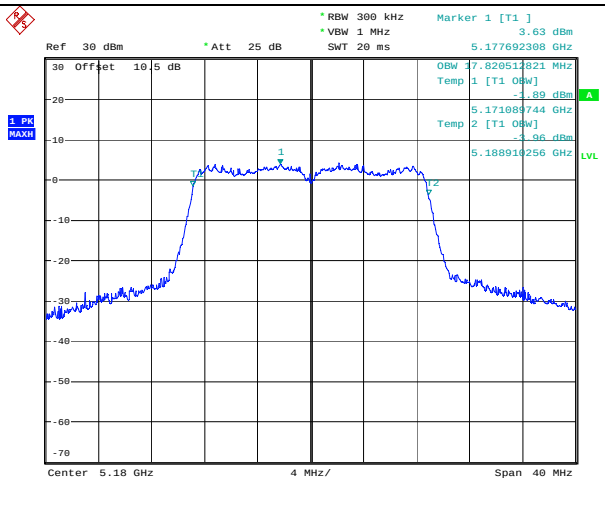
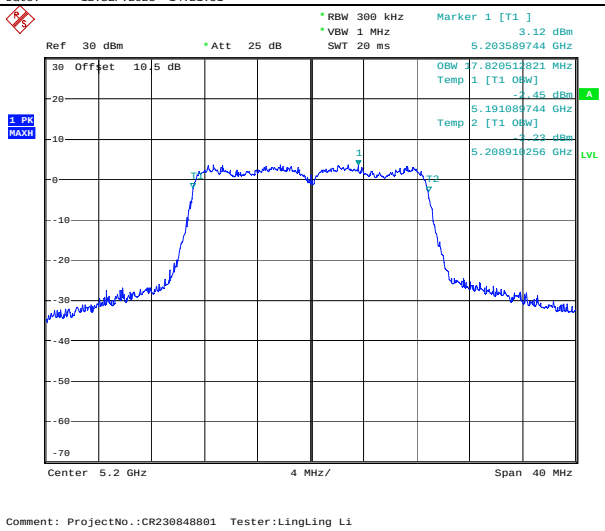
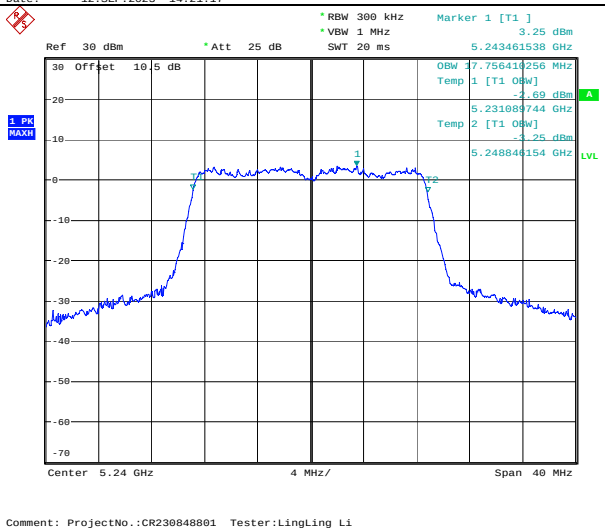
**5150-5250MHz:**

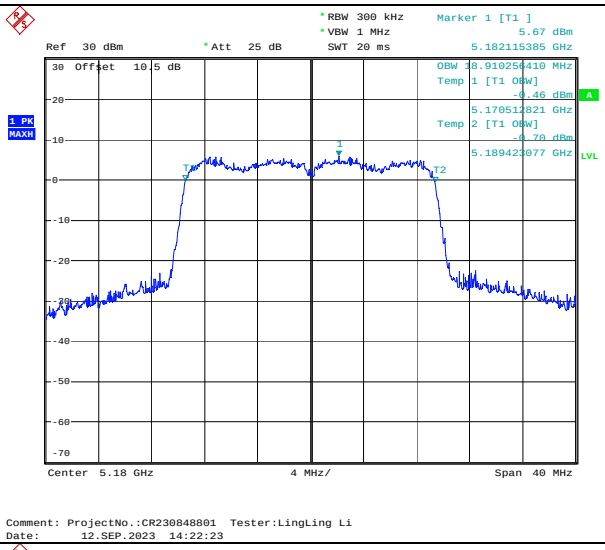
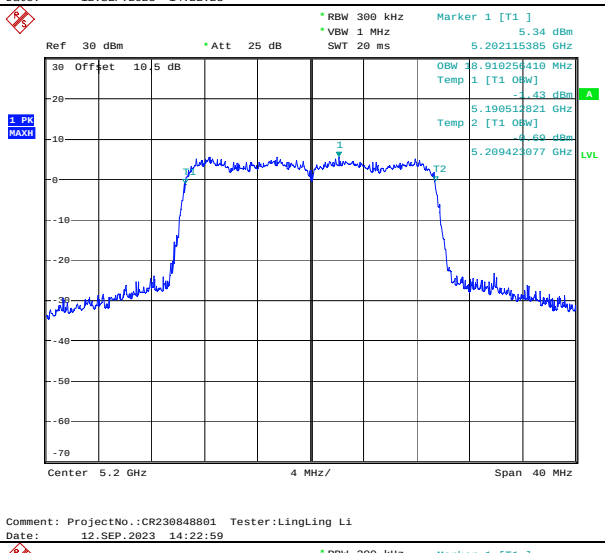
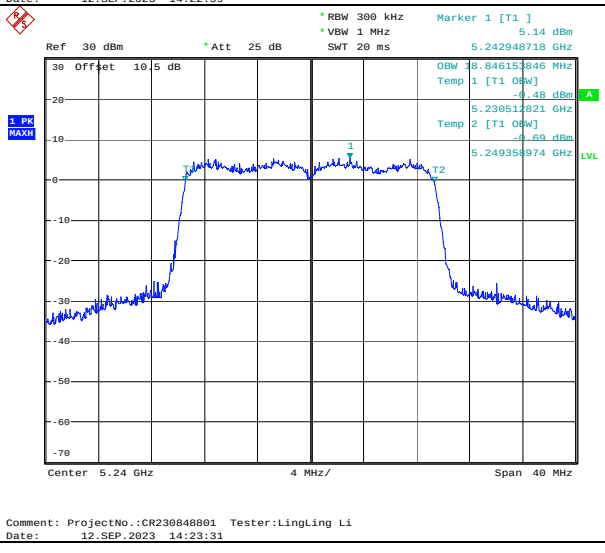
| 26dB Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| 26dB Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

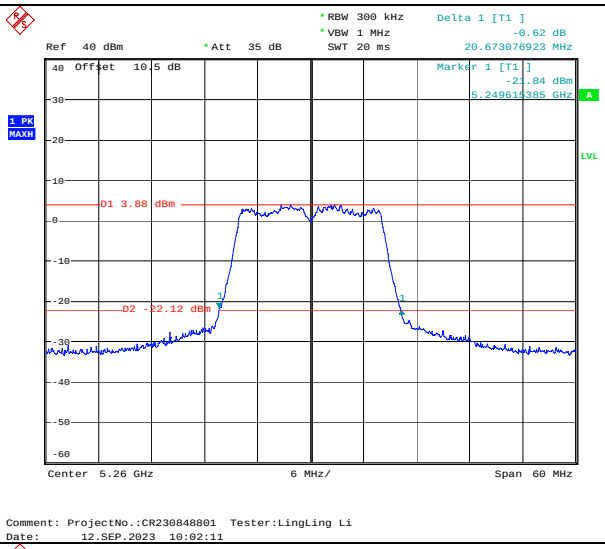
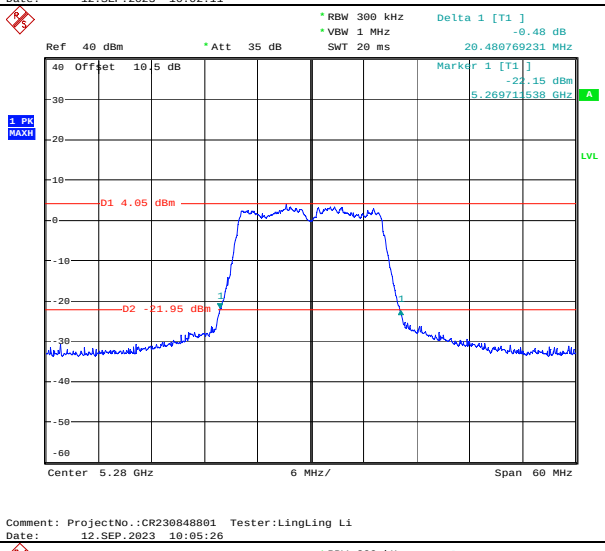
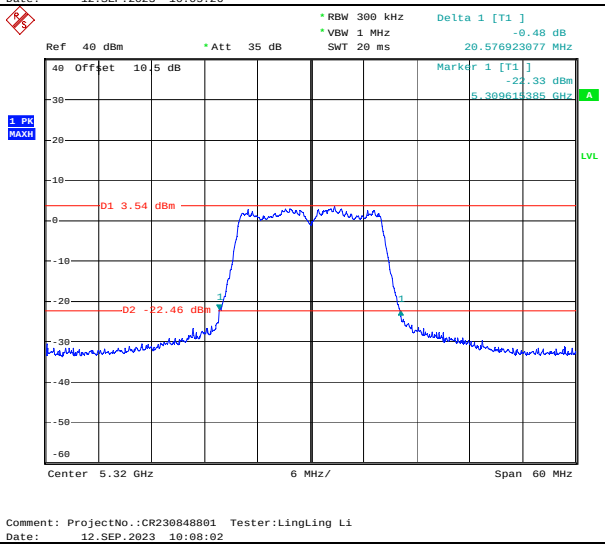
| 26dB Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

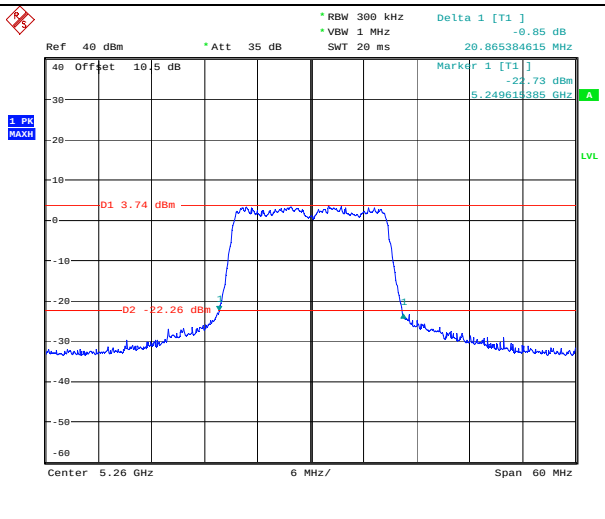
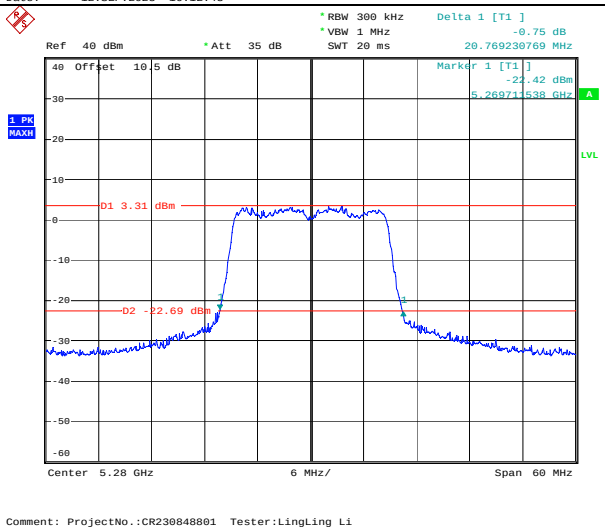
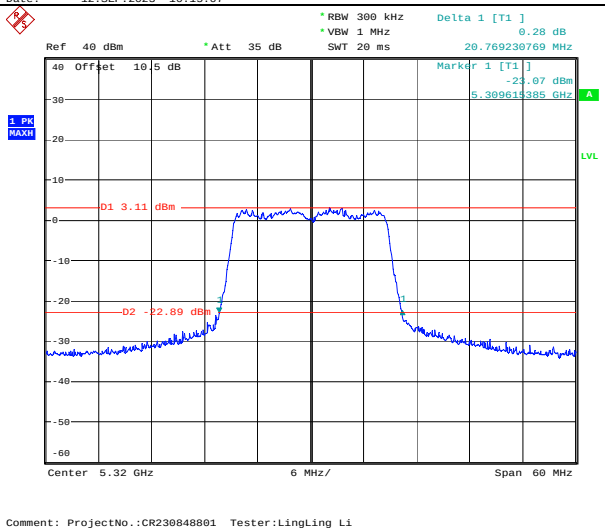
| 99% Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:14:58 |
| 802.11a<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:16:41 |
| 802.11a<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:18:21 |

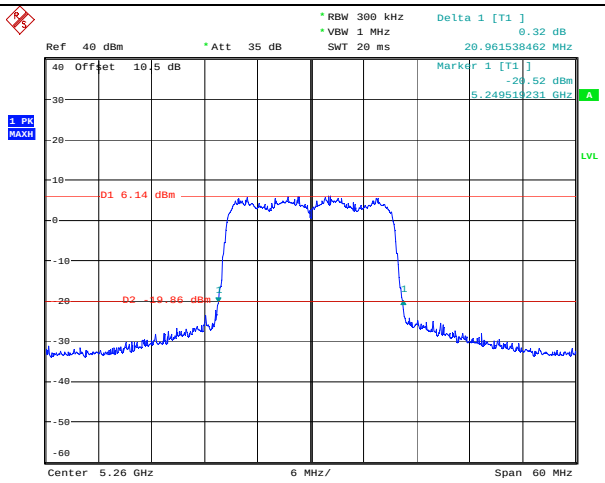
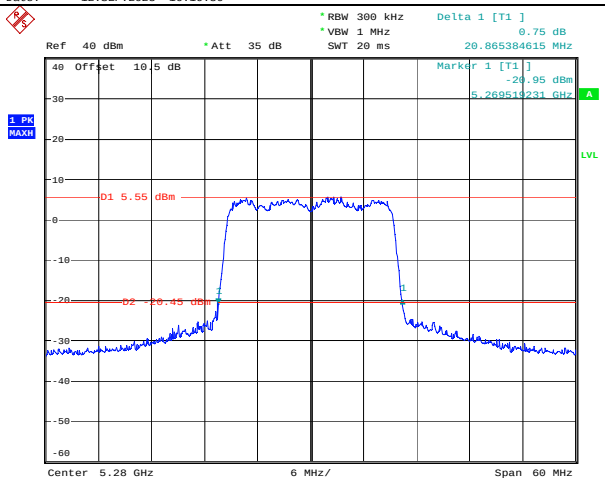
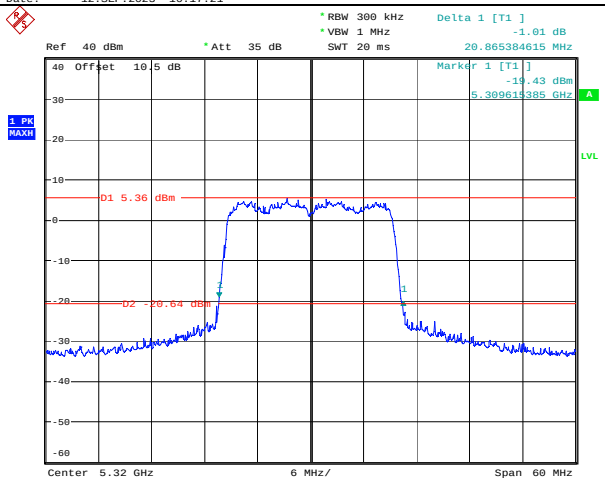
| 99% Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

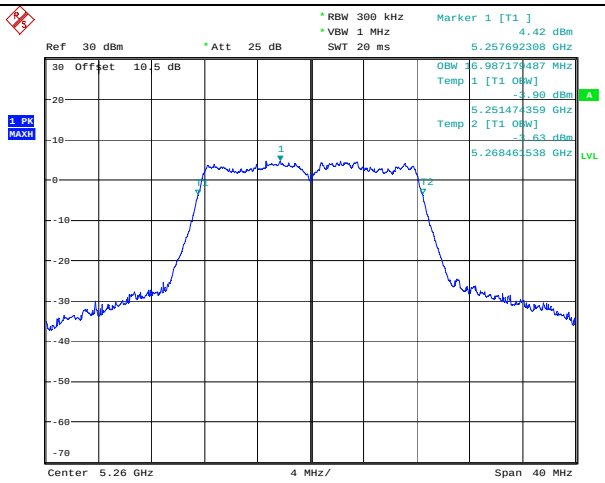
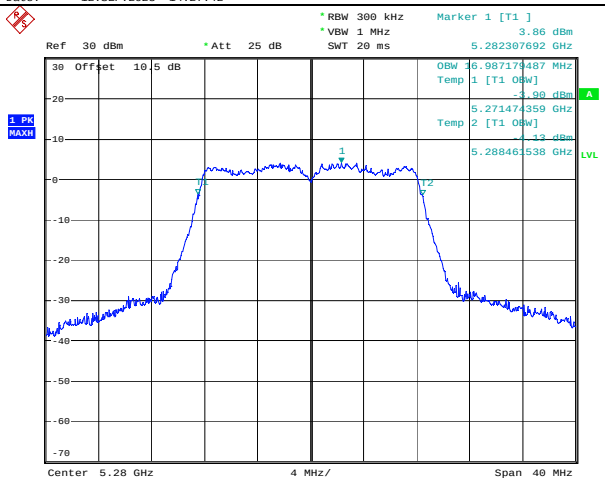
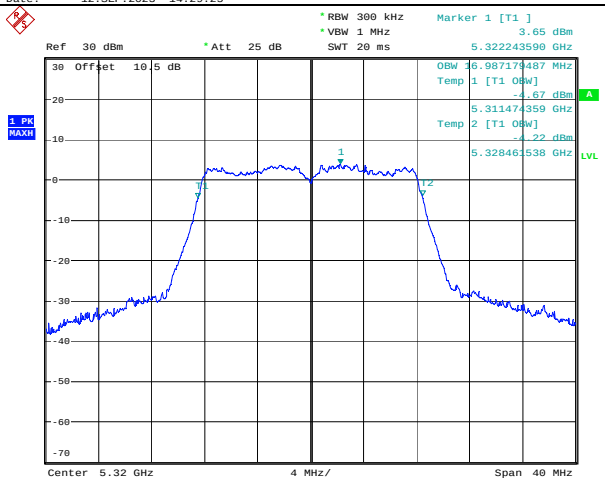
| 99% Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:22:23 |
| 802.11ax hew20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:22:59 |
| 802.11ax hew20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:23:31 |

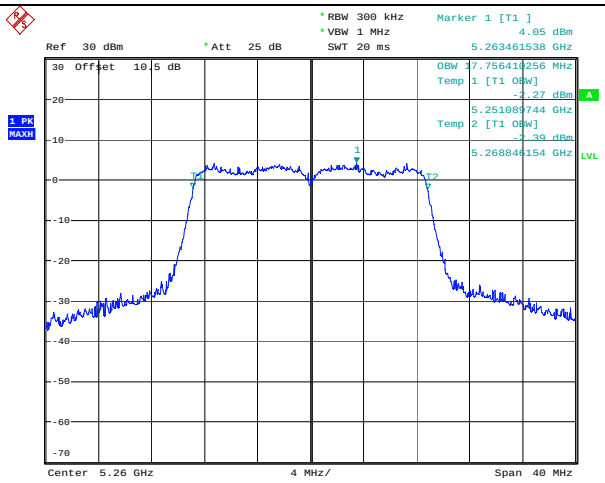
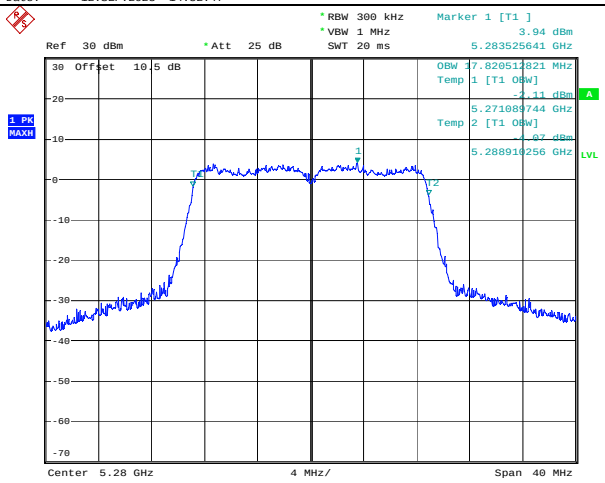
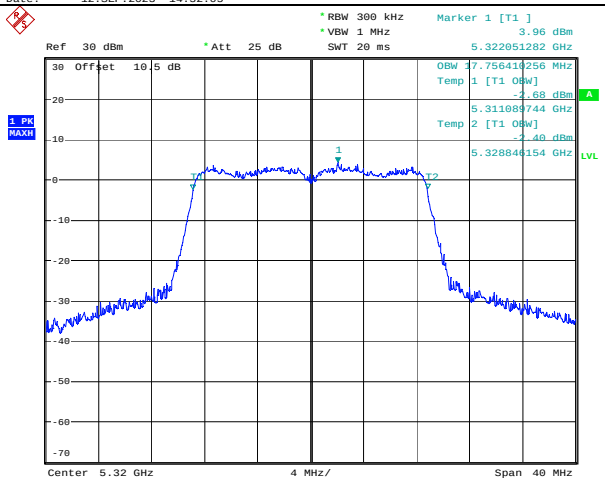
**5250-5350MHz:**

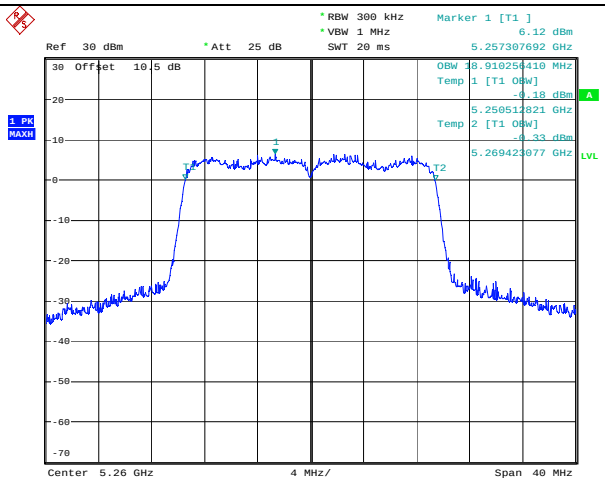
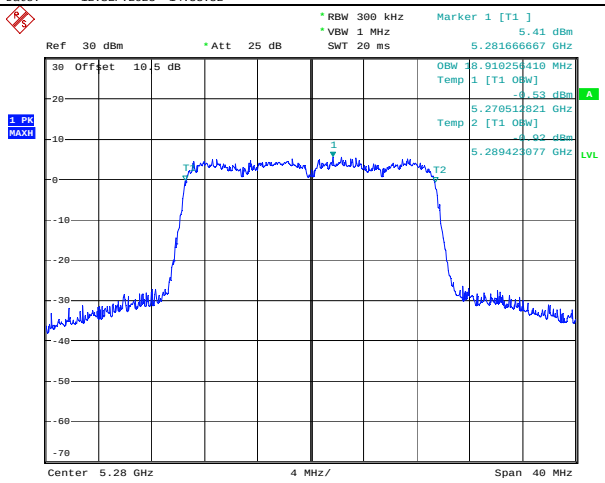
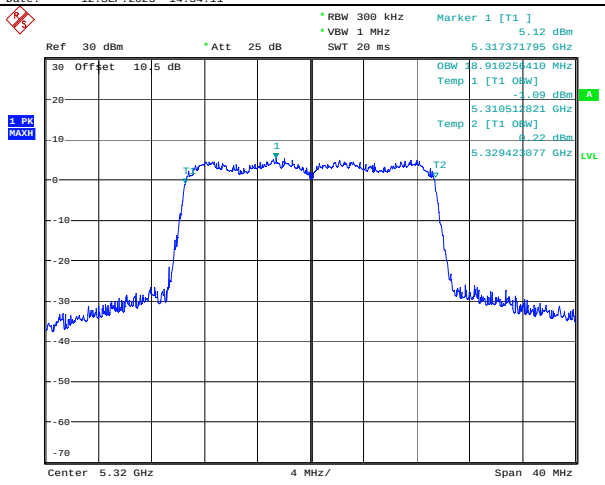
| 26dB Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| 26dB Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

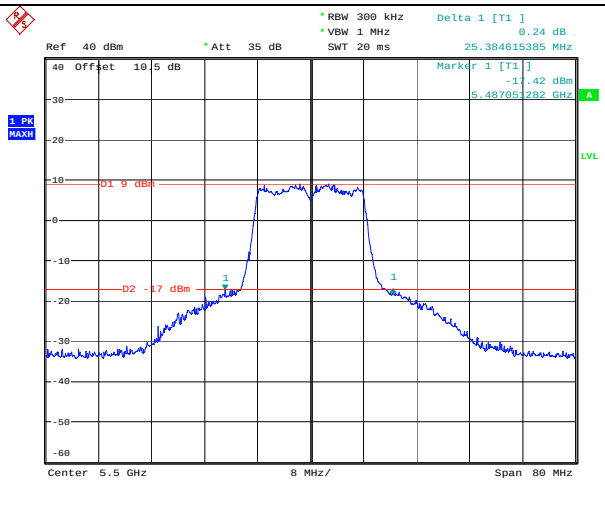
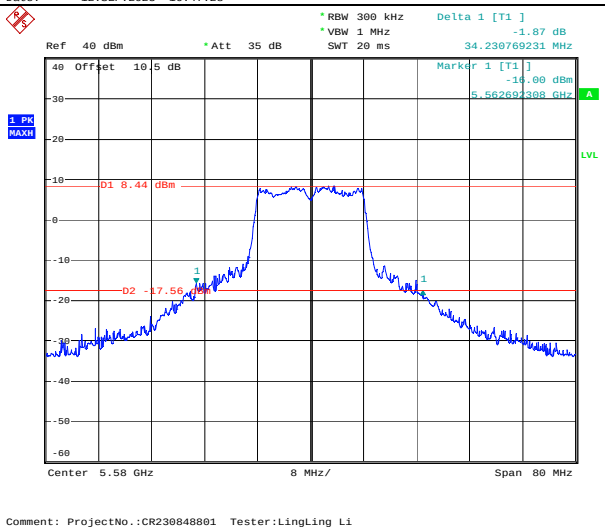
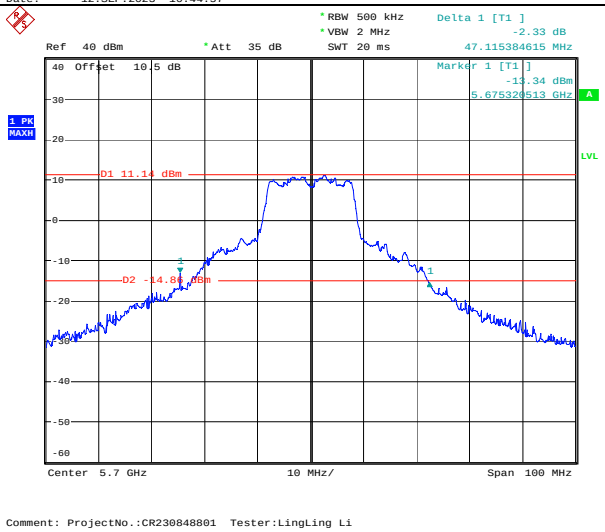
| 26dB Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

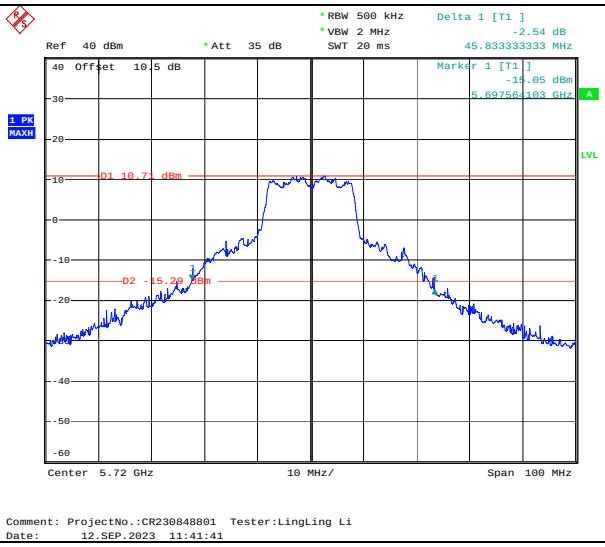
| 99% Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:27:42 |
| 802.11a<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:29:25 |
| 802.11a<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:30:24 |

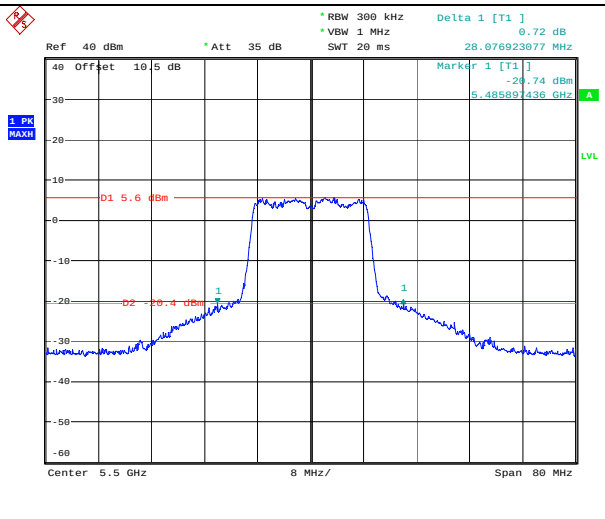
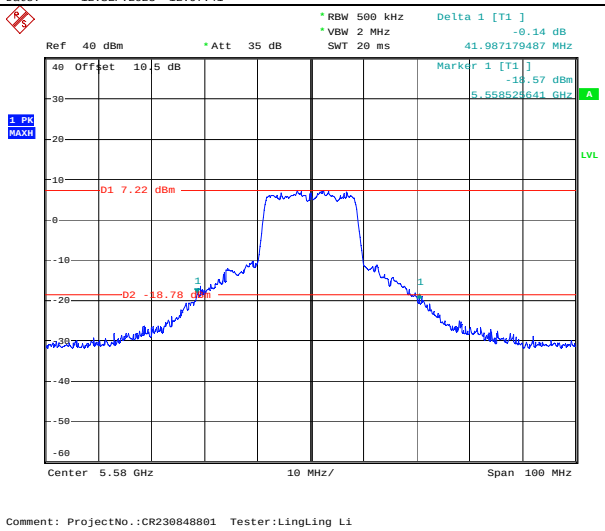
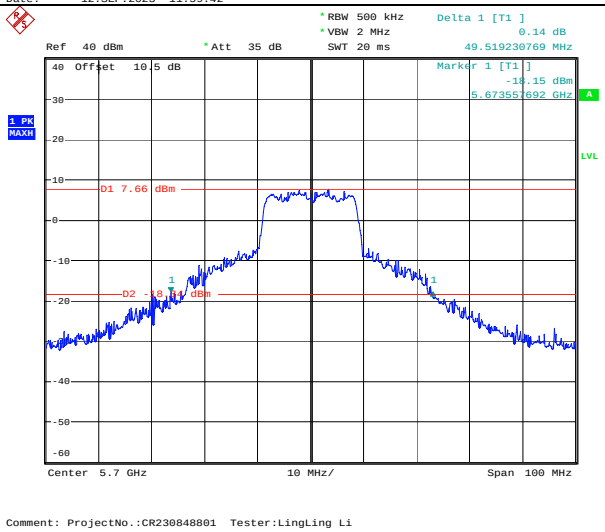
| 99% Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:32:47 |
| 802.11n ht20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:32:05 |
| 802.11n ht20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:31:03 |

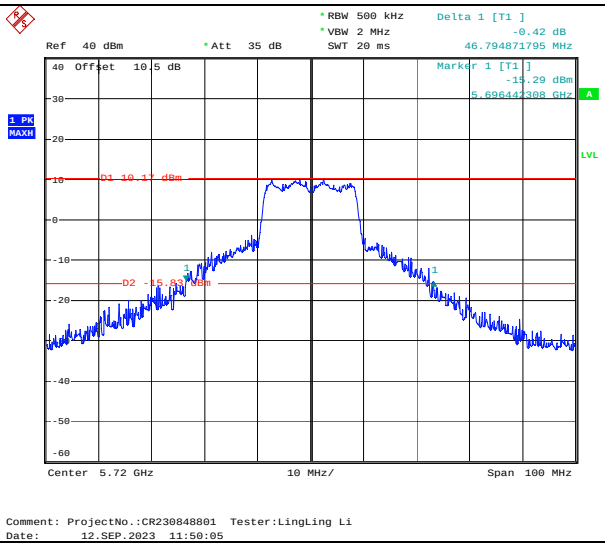
| 99% Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:33:32 |
| 802.11ax hew20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:34:11 |
| 802.11ax hew20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:34:47 |

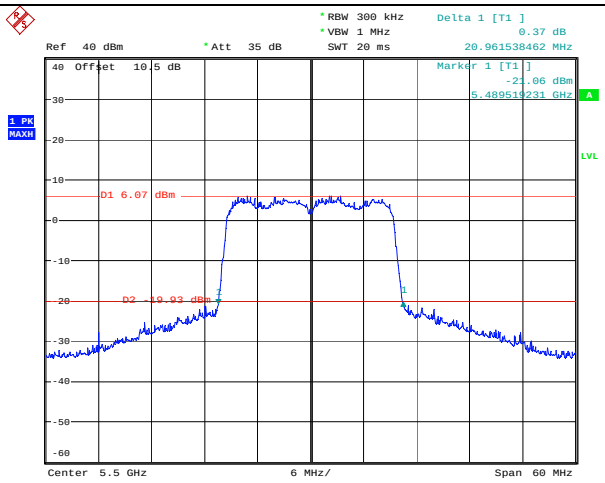
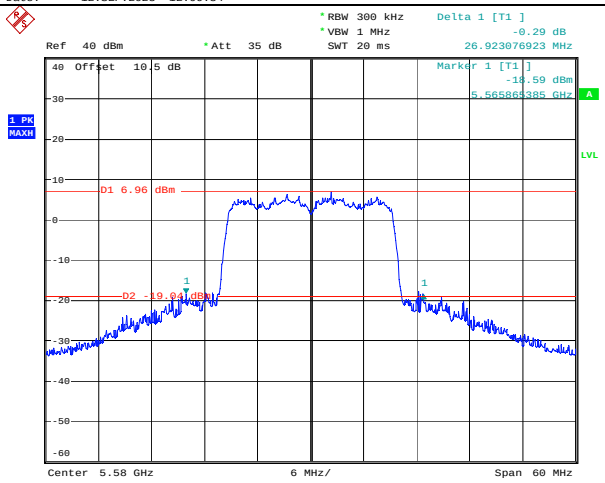
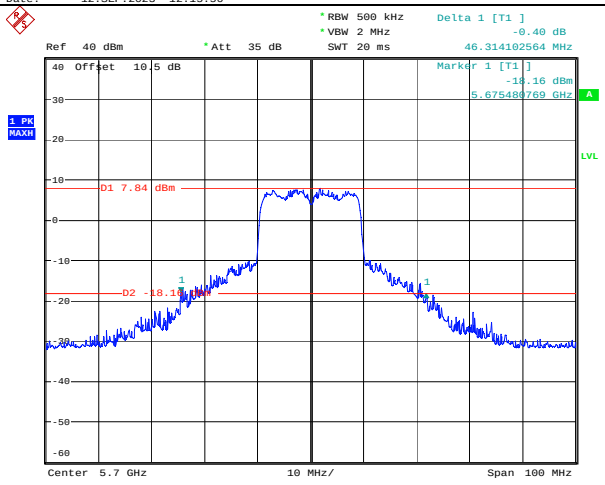
**5470-5725MHz:**

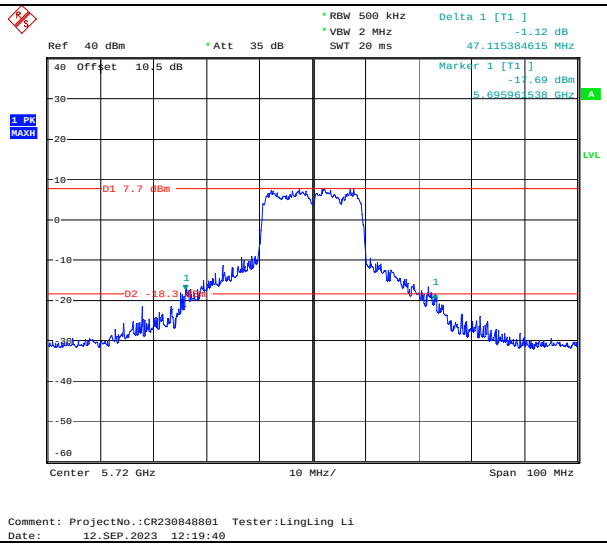
| 26dB Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

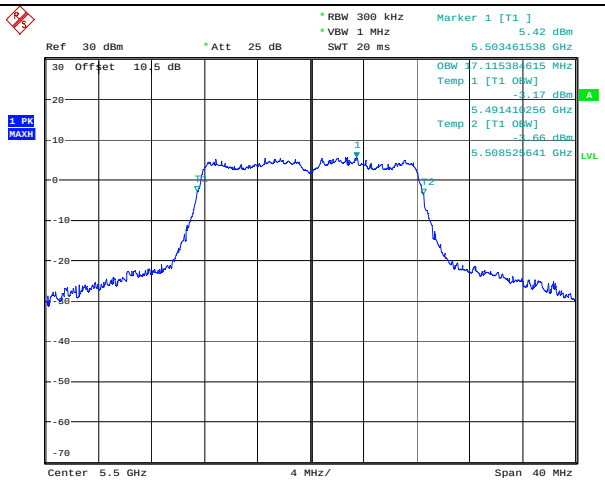
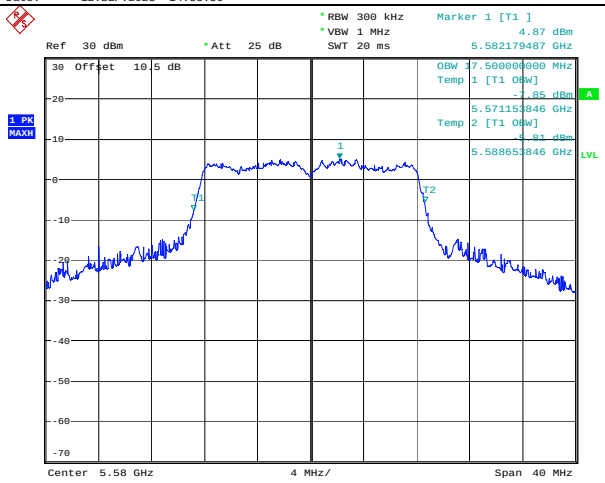
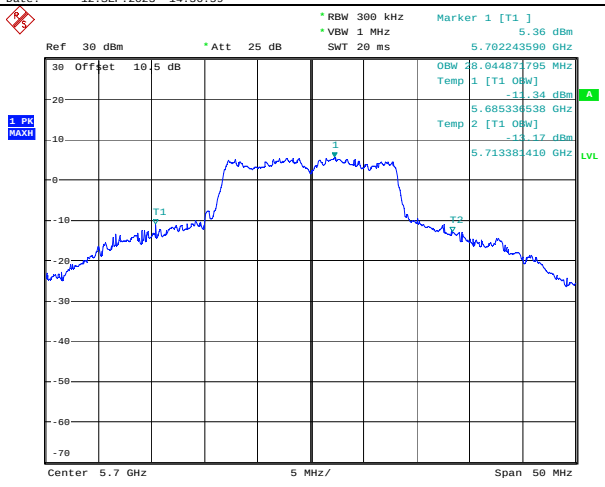
| | |
|---|---|
| 802.11a<br>5720 MHz |  |

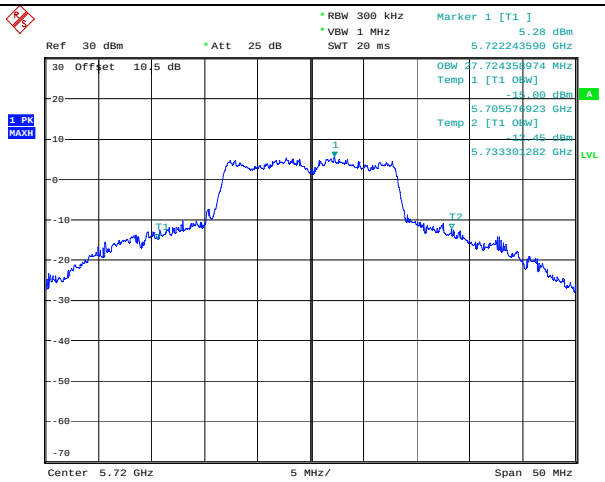
| 26dB Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

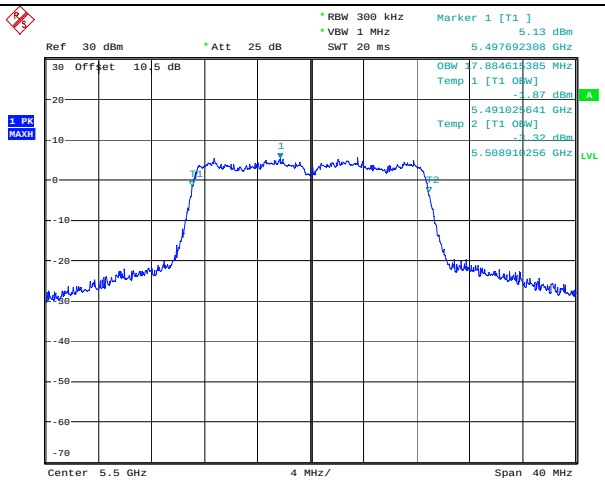
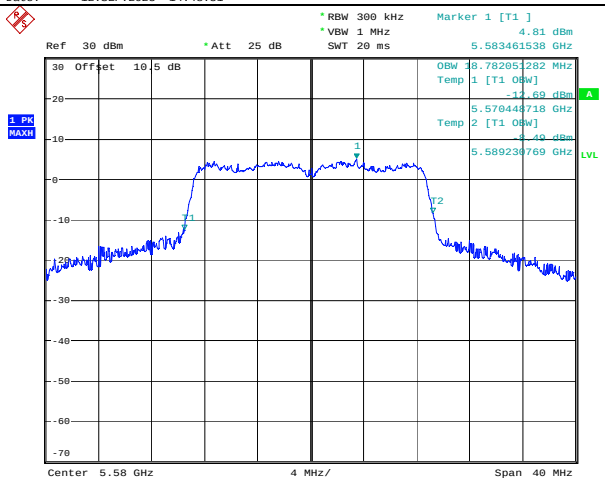
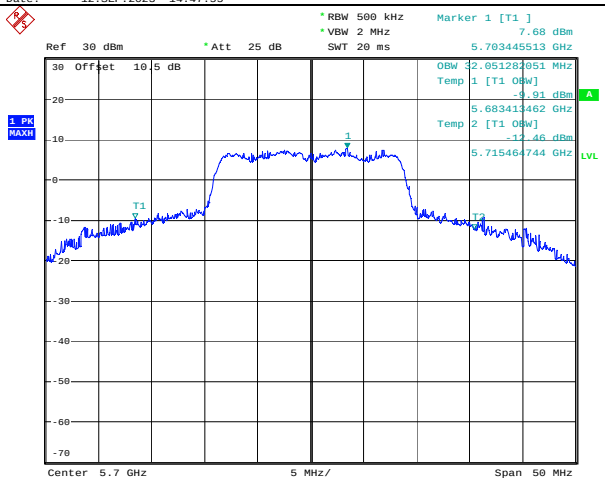
| | |
|---|---|
| 802.11n ht20<br>5720 MHz |  |

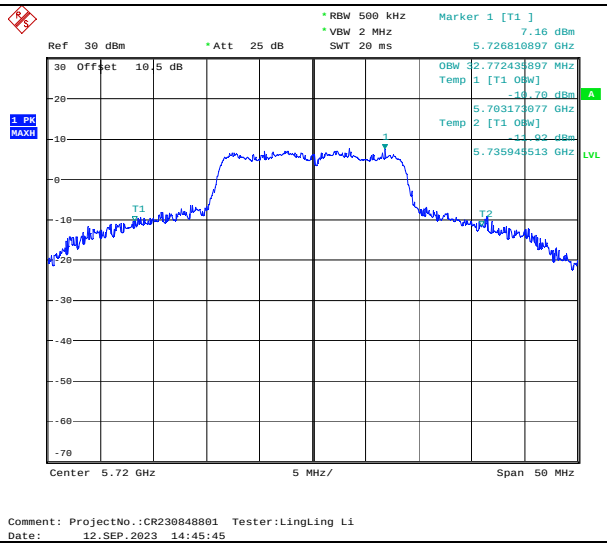
| 26dB Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

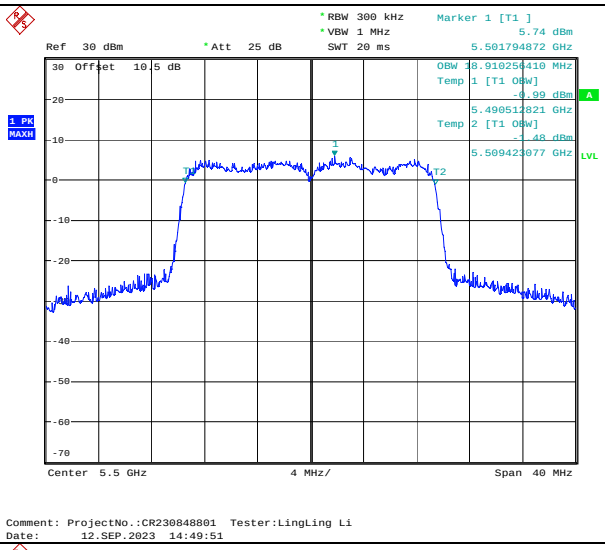
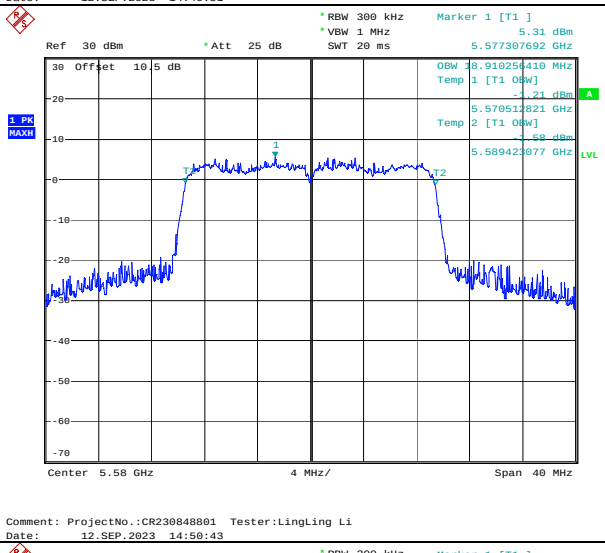
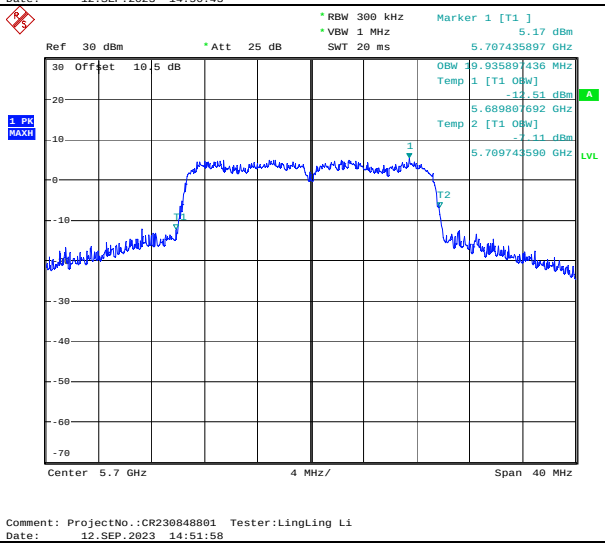
| | |
|---|---|
| 802.11ax hew20<br>5720 MHz |  |

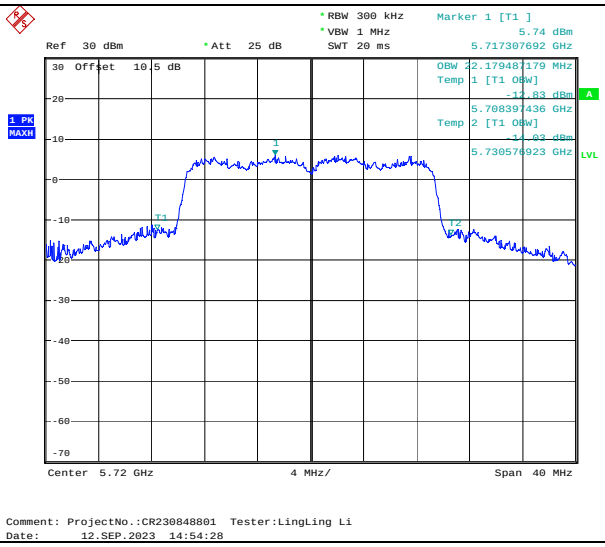
| 99% Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:35:50 |
| 802.11a<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:36:59 |
| 802.11a<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:41:36 |

| | |
|---|---|
| 802.11a<br>5720 MHz |  |

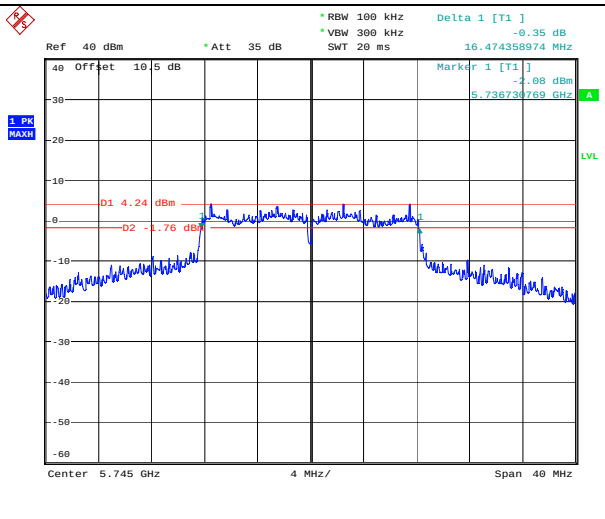
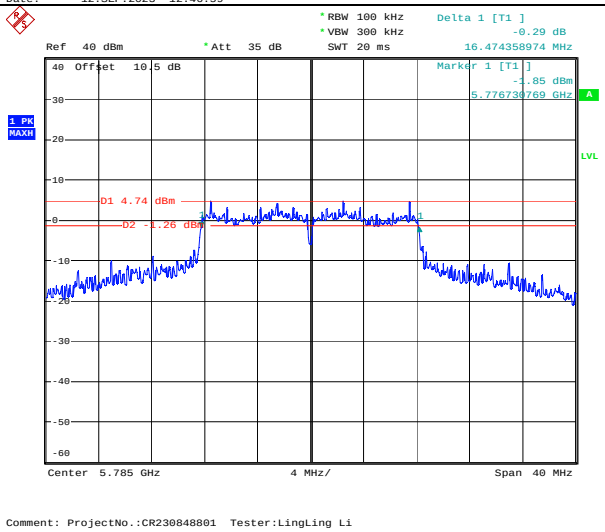
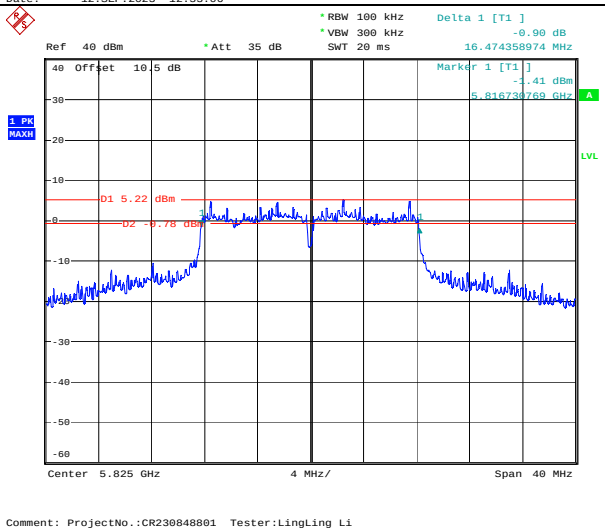
| 99% Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:48:31 |
| 802.11n ht20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:47:55 |
| 802.11n ht20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:46:53 |

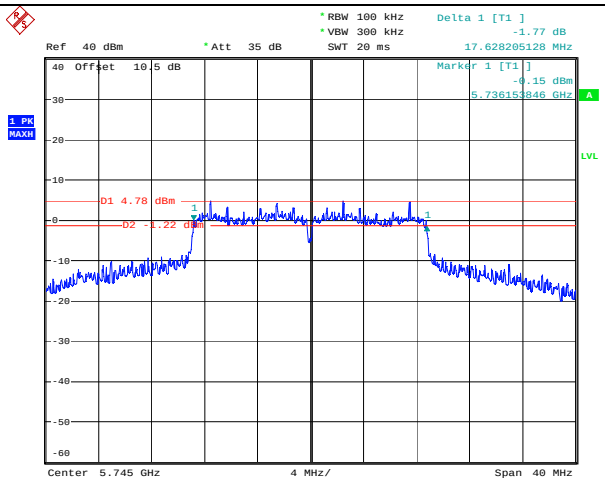
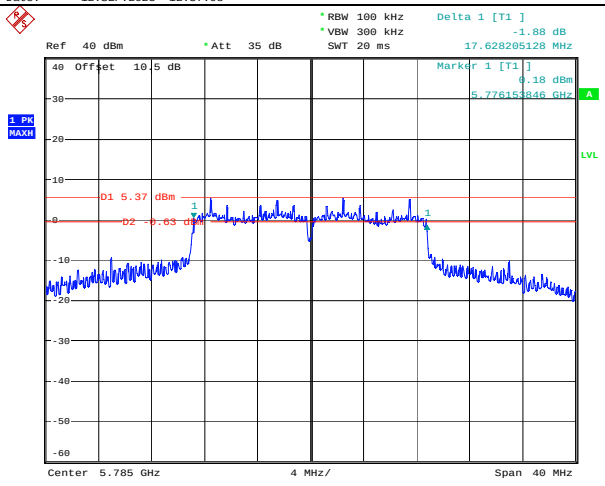
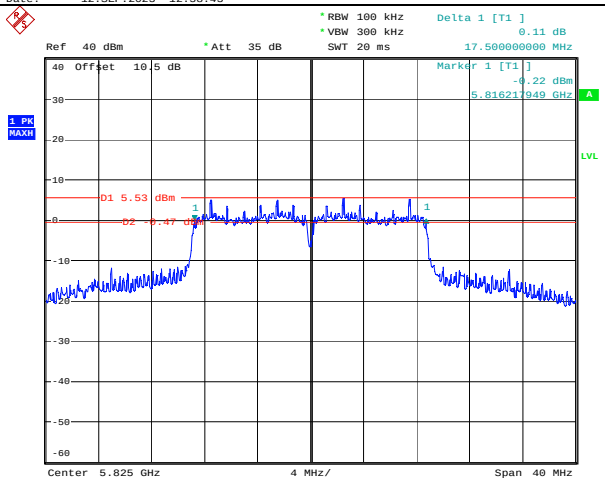
| | |
|---|---|
| 802.11n ht20<br>5720 MHz |  |

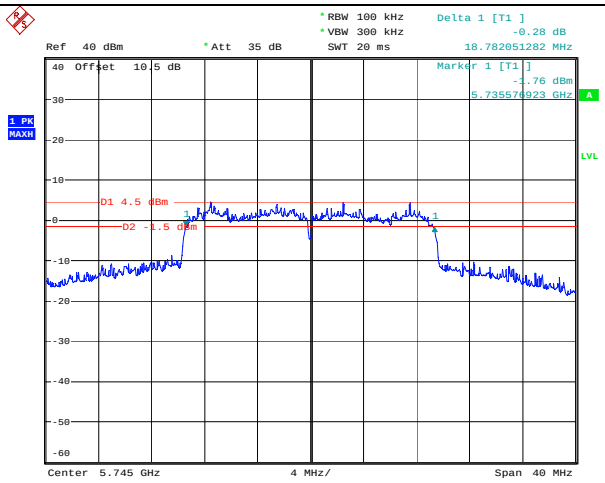
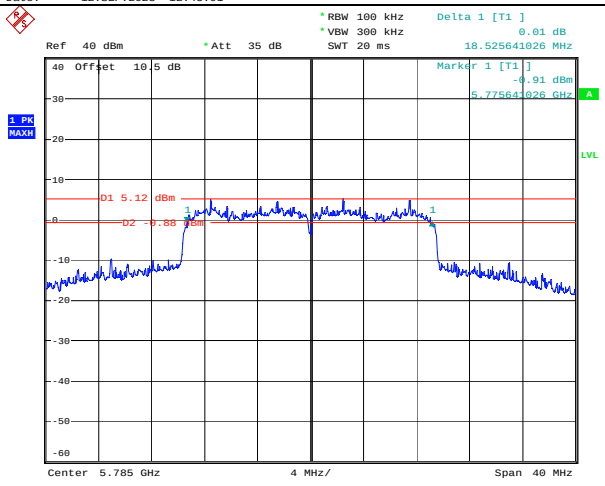
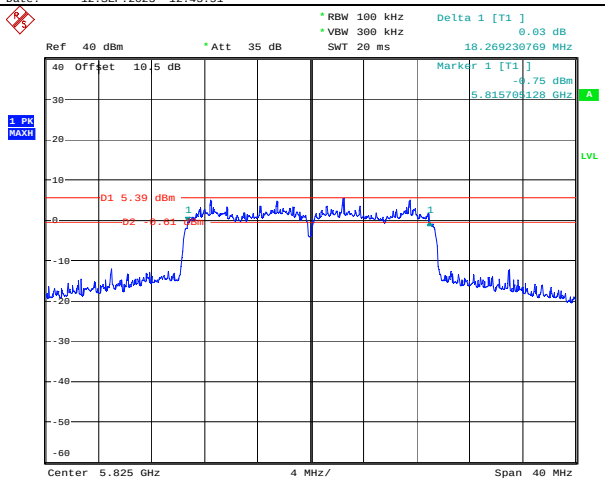
| 99% Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:49:51 |
| 802.11ax hew20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:50:43 |
| 802.11ax hew20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 14:51:58 |

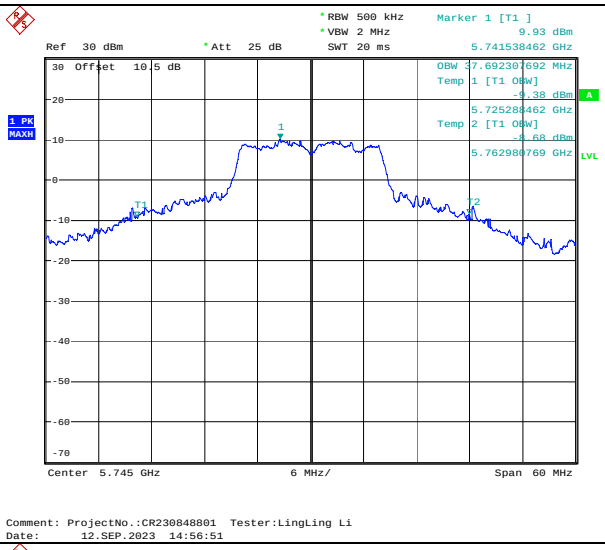
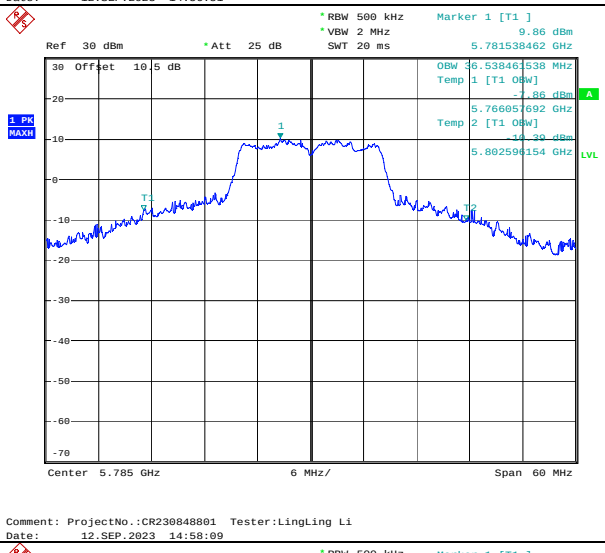
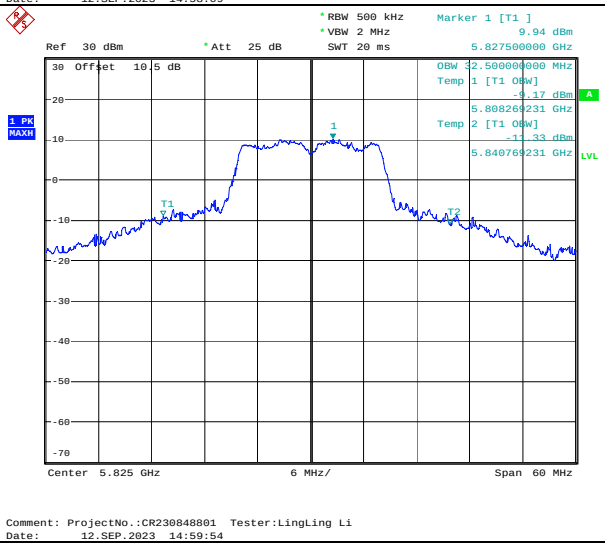
| | |
|---|---|
| 802.11ax hew20<br>5720 MHz |  |

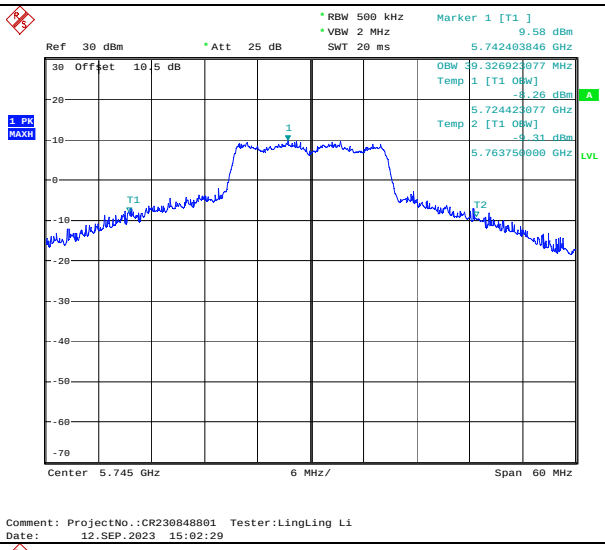
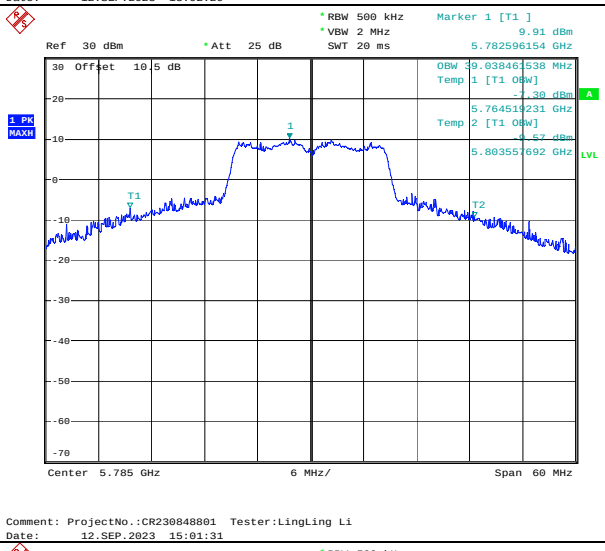
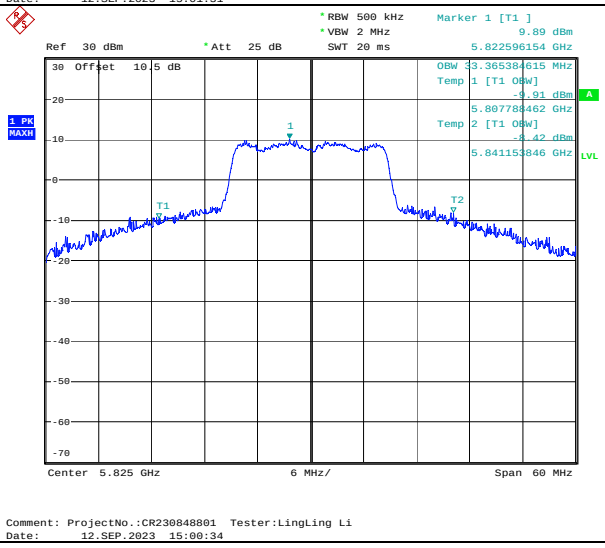
**5725-5850MHz:**

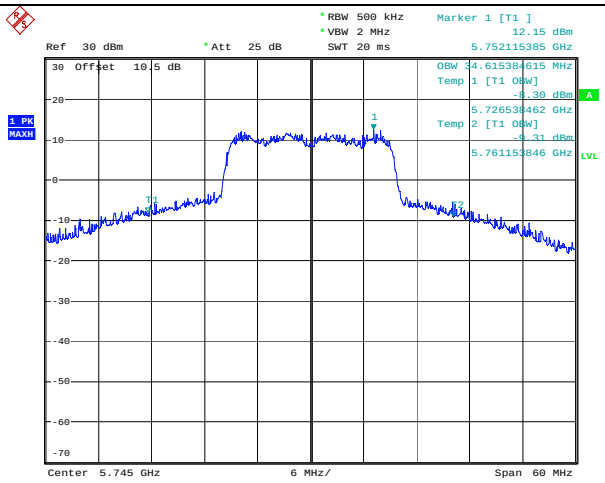
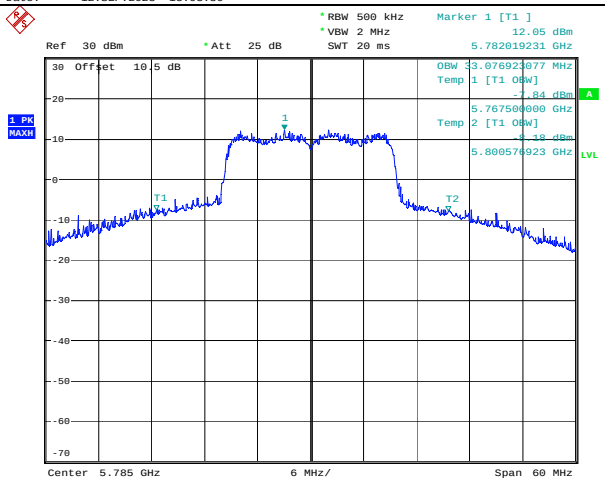
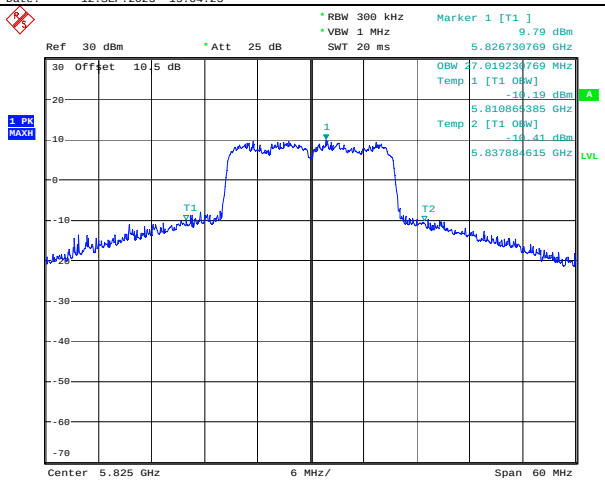
| 6dB Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| 6dB Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| 6dB Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

| 99% Emission Bandwidth | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| 99% Emission Bandwidth | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| 99% Emission Bandwidth | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

## 4.4 Maximum Conducted Output Power:

| Serial Number: | 2A8G-2 | Test Date: | 2023/9/11 |
|---|---|---|---|
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | LingLing Li | Test Result: | Pass |

| Environmental Conditions: | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 26.2 | Relative Humidity: (%) | 62 | ATM Pressure: (kPa) | 100.5 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| Anritsu | Power Meter | ML2495A | 1106009 | 2023/8/4 | 2024/8/3 |
| Anritsu | Pulse Power Sensor | MA2411A | 10780 | 2023/8/4 | 2024/8/3 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211002 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) | |
|---|---|---|---|
| | | Result | Limit |
| 802.11a | 5180 | **14.06** | 24 |
| | 5200 | 13.68 | 24 |
| | 5240 | 13.61 | 24 |
| 802.11n ht20 | 5180 | 13.26 | 24 |
| | 5200 | 13.09 | 24 |
| | 5240 | 12.74 | 24 |
| 802.11ax hew20 | 5180 | 13.51 | 24 |
| | 5200 | 13.32 | 24 |
| | 5240 | 12.96 | 24 |
| Note: The device is a client device. | | | |

5250-5350 MHz:

| Test Modes | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) | |
|---|---|---|---|
| | | Result | Limit |
| 802.11a | 5260 | **12.64** | 24 |
| | 5280 | 12.37 | 24 |
| | 5320 | 12.27 | 24 |
| 802.11n ht20 | 5260 | 12.54 | 24 |
| | 5280 | 12.48 | 24 |
| | 5320 | 12.63 | 24 |
| 802.11ax hew20 | 5260 | 12.57 | 24 |
| | 5280 | 12.55 | 24 |
| | 5320 | 12.53 | 24 |

5470-5725 MHz:

| Test Modes | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) | |
|---|---|---|---|
| | | Result | Limit |
| 802.11a | 5500 | 15.45 | 24 |
| | 5580 | 15.07 | 24 |
| | 5700 | 15.13 | 24 |
| | 5720 | 14.9 | 24 |
| 802.11n ht20 | 5500 | **15.59** | 24 |
| | 5580 | 15.16 | 24 |
| | 5700 | 15.22 | 24 |
| | 5720 | 14.95 | 24 |
| 802.11ax hew20 | 5500 | 13.95 | 24 |
| | 5580 | 13.45 | 24 |
| | 5700 | 13.43 | 24 |
| | 5720 | 13.34 | 24 |

5725-5850 MHz:

| Test Modes | Test Frequency (MHz) | Max. Conducted Average Output Power (dBm) | |
|---|---|---|---|
| | | Result | Limit |
| 802.11a | 5745 | 15.91 | 30 |
| | 5785 | 15.88 | 30 |
| | 5825 | 15.73 | 30 |
| 802.11n ht20 | 5745 | 15.88 | 30 |
| | 5785 | 15.65 | 30 |
| | 5825 | 15.42 | 30 |
| 802.11ax hew20 | 5745 | 15.85 | 30 |
| | 5785 | **15.94** | 30 |
| | 5825 | 15.76 | 30 |

## 4.5 Maximum power spectral density:

| | | | |
|---|---|---|---|
| Serial Number: | 2A8G-2 | Test Date: | 2023/9/11-2023/9/12 |
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | LingLing Li | Test Result: | Pass |

| **Environmental Conditions:** | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.9-26.2 | Relative Humidity: (%) | 60-62 | ATM Pressure: (kPa) | 100.2-100.5 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 100147 | 2023/3/31 | 2024/3/30 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211002 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

5150-5250 MHz:

| Test Modes | Test Frequency (MHz) | Reading dBm/MHz) | Duty Cycle Factor (dB) | Maximum Power Spectral Density (dBm/MHz) | |
|---|---|---|---|---|---|
| | | | | Result | Limit |
| 802.11a | 5180 | 2.44 | / | 2.44 | 11 |
| | 5200 | 2.33 | / | 2.33 | 11 |
| | 5240 | 2.04 | / | 2.04 | 11 |
| 802.11n ht20 | 5180 | 1.05 | / | 1.05 | 11 |
| | 5200 | 0.66 | / | 0.66 | 11 |
| | 5240 | 0.24 | / | 0.24 | 11 |
| 802.11ax hew20 | 5180 | 0.81 | / | 0.81 | 11 |
| | 5200 | 0.45 | / | 0.45 | 11 |
| | 5240 | 0.2 | / | 0.20 | 11 |

Note:
The device is a client device.
Duty cycle ≥98%, method ANSI C63.10-2013 Section 12.3.2.2 was used.

5250-5350 MHz:

| Test Modes | Test Frequency(MHz) | Reading(dBm/MHz) | Duty Cycle Factor(dB) | Maximum Power Spectral Density(dBm/MHz) | |
|---|---|---|---|---|---|
| | | | | Result | Limit |
| 802.11a | 5260 | 0.22 | / | 0.22 | 11 |
| | 5280 | -0.02 | / | -0.02 | 11 |
| | 5320 | -0.61 | / | -0.61 | 11 |
| 802.11n ht20 | 5260 | -0.27 | / | -0.27 | 11 |
| | 5280 | -0.46 | / | -0.46 | 11 |
| | 5320 | -0.86 | / | -0.86 | 11 |
| 802.11ax hew20 | 5260 | -0.24 | / | -0.24 | 11 |
| | 5280 | -0.62 | / | -0.62 | 11 |
| | 5320 | -0.64 | / | -0.64 | 11 |
| Note:<br>Duty cycle ⩾98%, method ANSI C63.10-2013 Section 12.3.2.2 was used. | | | | | |

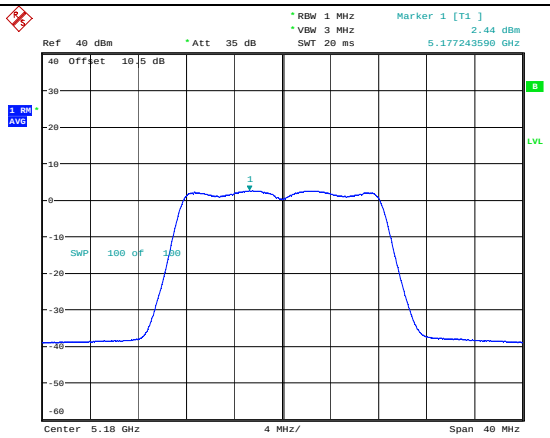
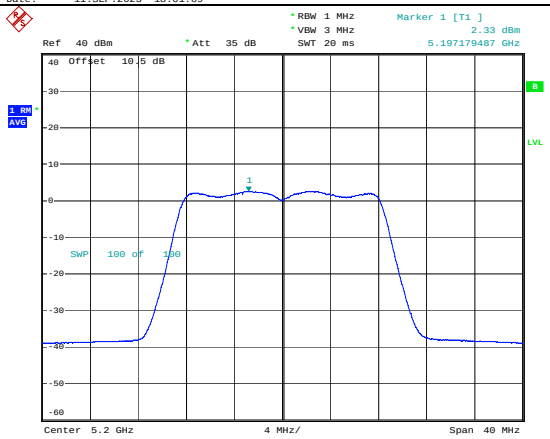
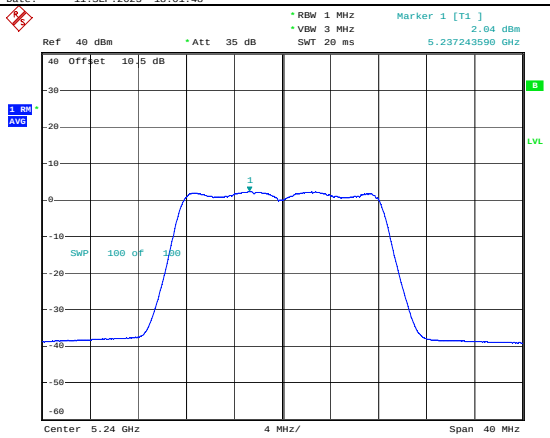
5470-5725 MHz:

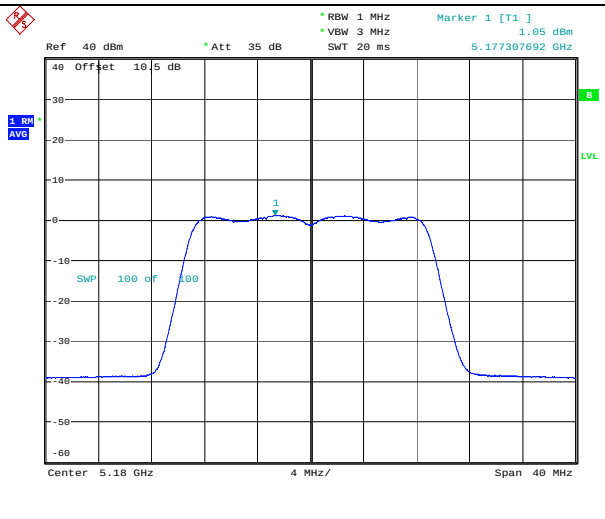
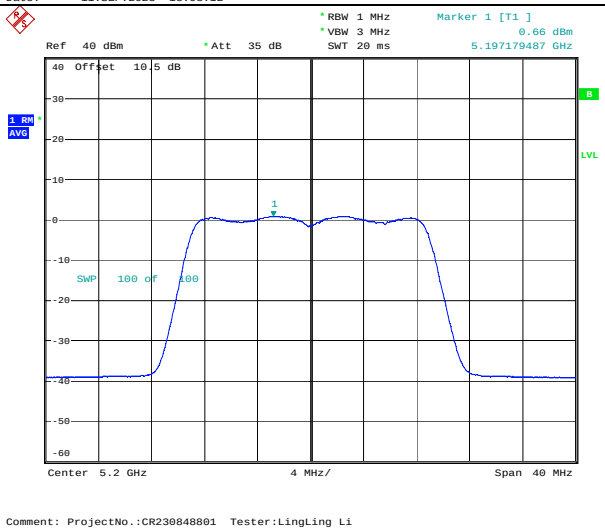
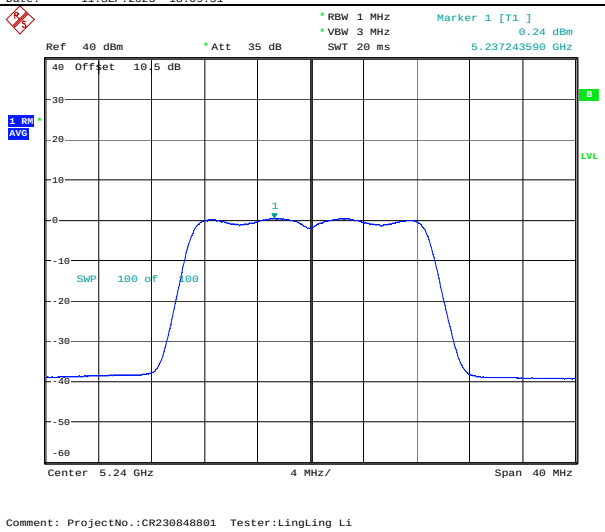
| Test Modes | Test Frequency (MHz) | Reading (dBm/MHz) | Duty Cycle Factor (dB) | Maximum Power Spectral Density (dBm/MHz) | |
|---|---|---|---|---|---|
| | | | | Result | Limit |
| 802.11a | 5500 | 1.61 | / | 1.61 | 11 |
| | 5580 | 1.2 | / | 1.20 | 11 |
| | 5700 | 1.61 | / | 1.61 | 11 |
| | 5720 | 1.58 | / | 1.58 | 11 |
| 802.11n ht20 | 5500 | 1.85 | / | 1.85 | 11 |
| | 5580 | 1.31 | / | 1.31 | 11 |
| | 5700 | 1.97 | / | 1.97 | 11 |
| | 5720 | 1.24 | / | 1.24 | 11 |
| 802.11ax hew20 | 5500 | 0.01 | / | 0.01 | 11 |
| | 5580 | -0.48 | / | -0.48 | 11 |
| | 5700 | -0.23 | / | -0.23 | 11 |
| | 5720 | -0.33 | / | -0.33 | 11 |
| Note:<br>Duty cycle ⩾98%, method ANSI C63.10-2013 Section 12.3.2.2 was used. | | | | | |

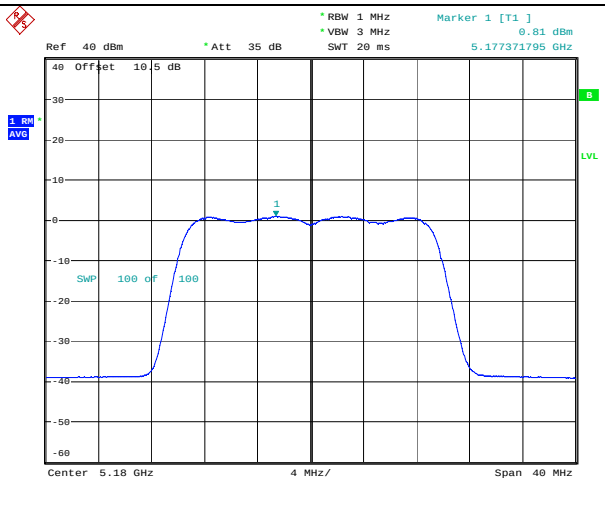
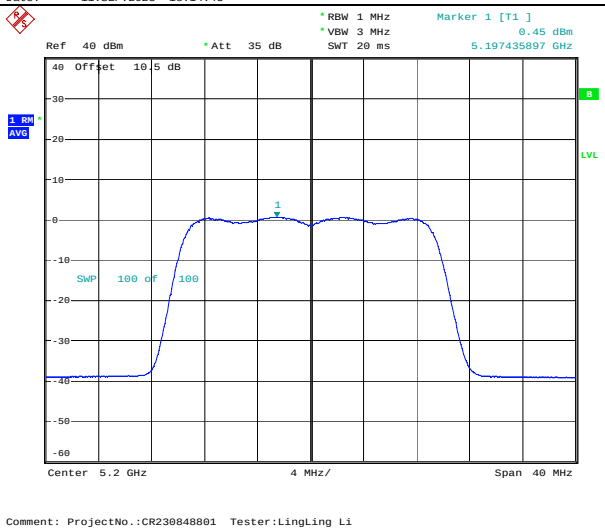
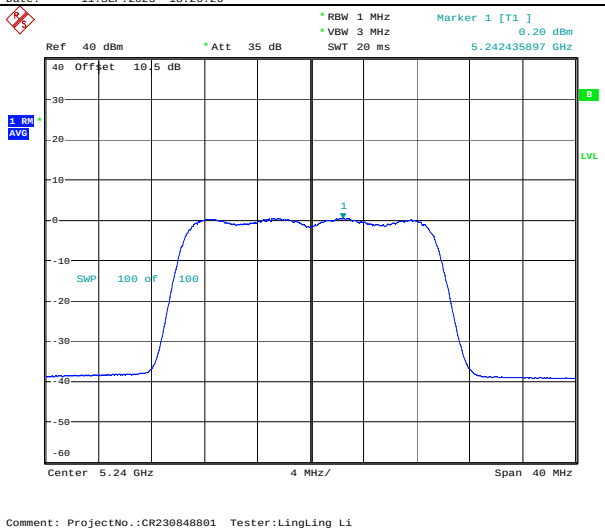
5725-5850 MHz:

| Test Modes | Test Frequency (MHz) | Reading (dBm/500kHz) | Duty Cycle Factor (dB) | Maximum Power Spectral Density (dBm/500kHz) | |
|---|---|---|---|---|---|
| | | | | Result | Limit |
| 802.11a | 5745 | 1.3 | / | 1.30 | 30 |
| | 5785 | 1.33 | / | 1.33 | 30 |
| | 5825 | 1.37 | / | 1.37 | 30 |
| 802.11n ht20 | 5745 | 1.02 | / | 1.02 | 30 |
| | 5785 | 1.03 | / | 1.03 | 30 |
| | 5825 | 1.17 | / | 1.17 | 30 |
| 802.11ax hew20 | 5745 | 1.01 | / | 1.01 | 30 |
| | 5785 | 1.14 | / | 1.14 | 30 |
| | 5825 | 1.18 | / | 1.18 | 30 |
| Note:<br>Duty cycle ⩾98%, method ANSI C63.10-2013 Section 12.3.2.2 was used. | | | | | |

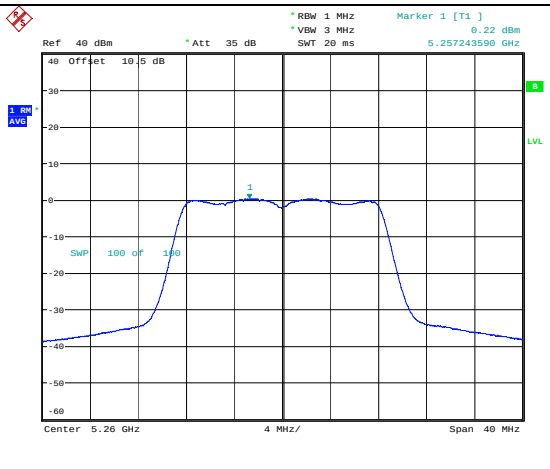
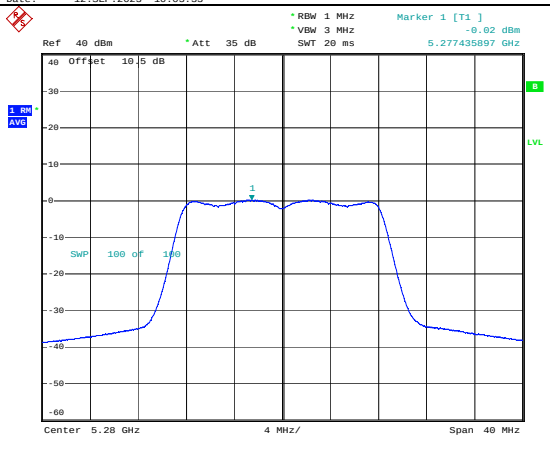
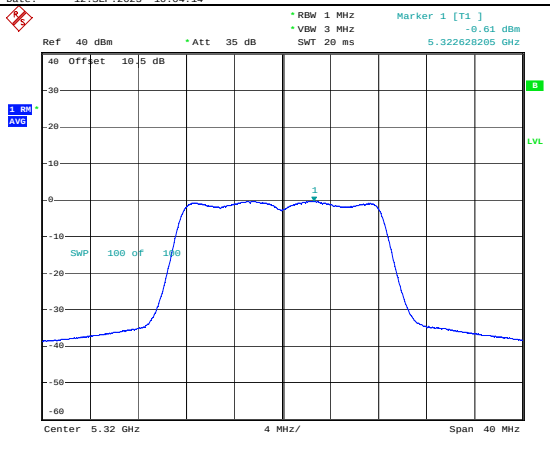
**5150-5250MHz:**

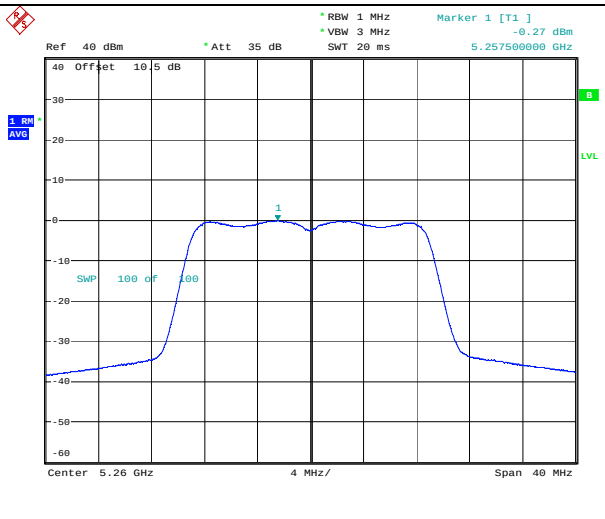
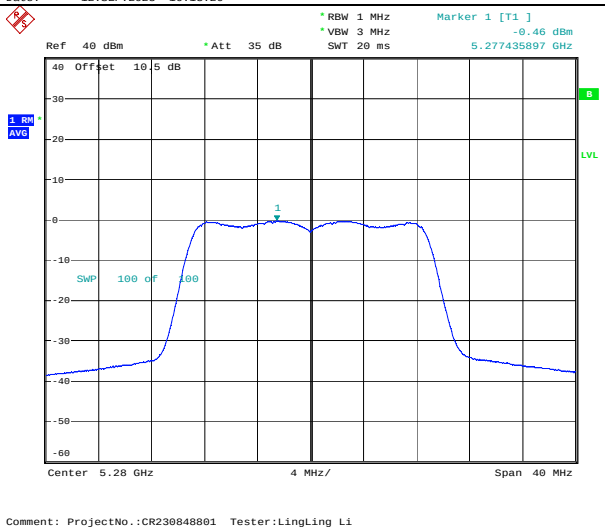
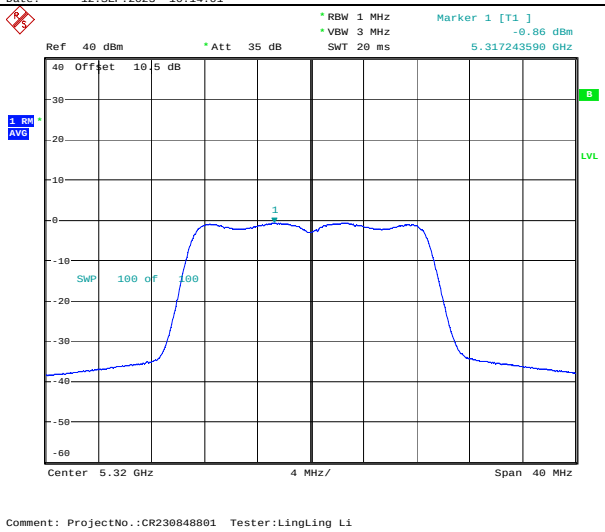
| Maximum power spectral density | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

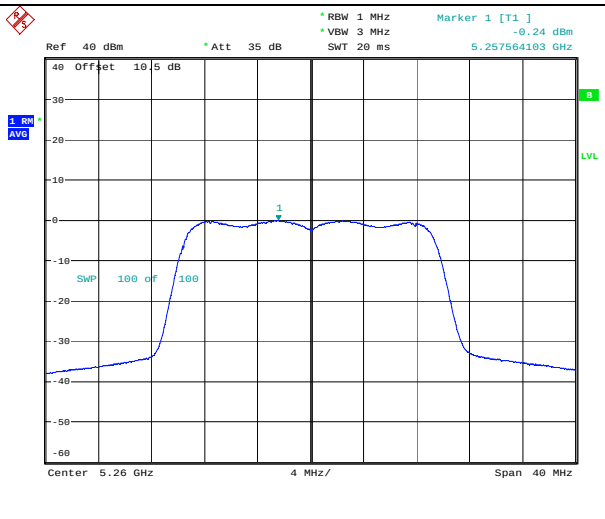
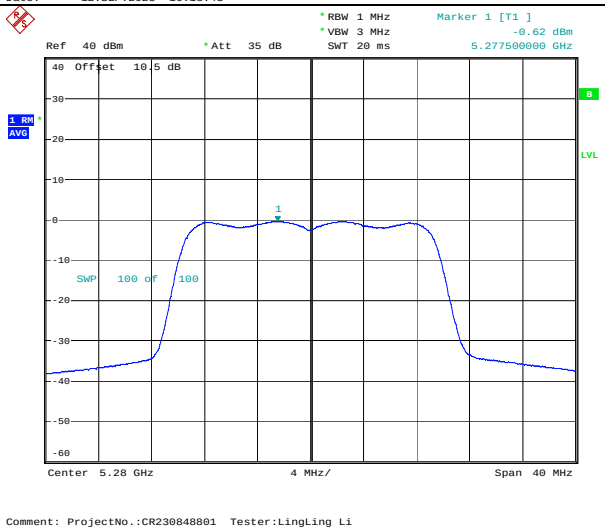
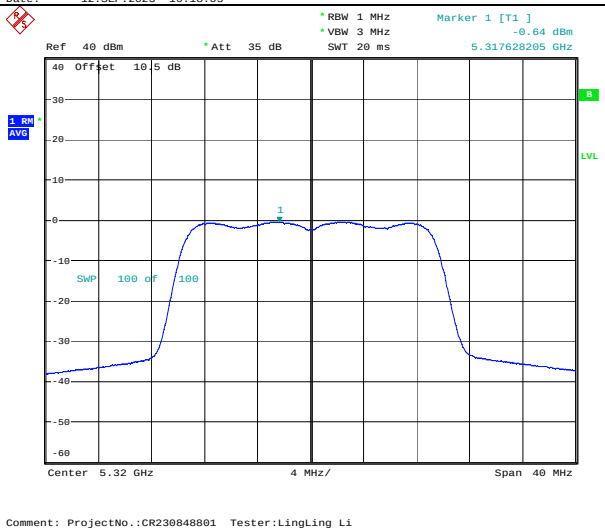
| Maximum power spectral density | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

| Maximum power spectral density | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

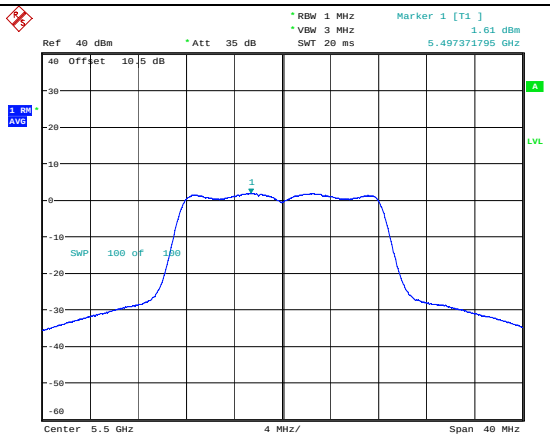
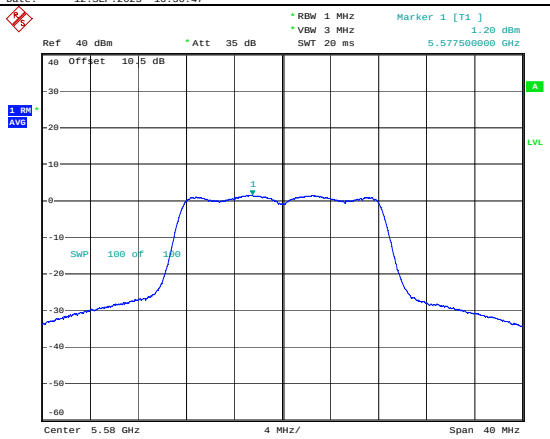
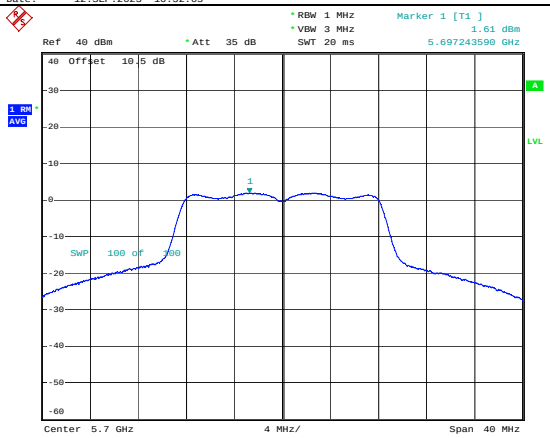
**5250-5350MHz:**

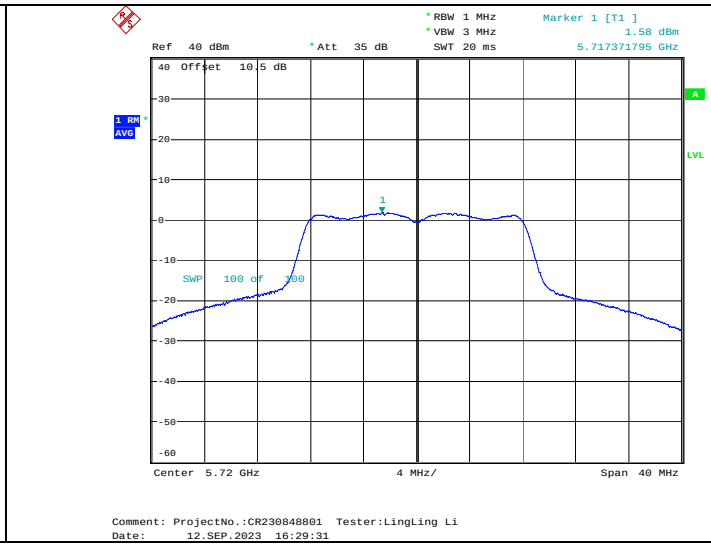
| Maximum power spectral density | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

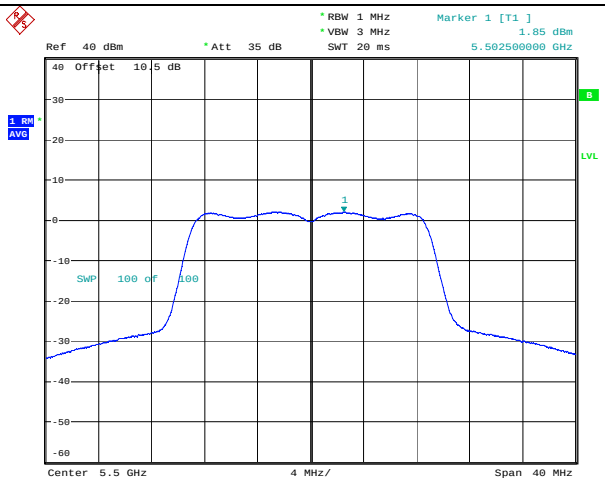
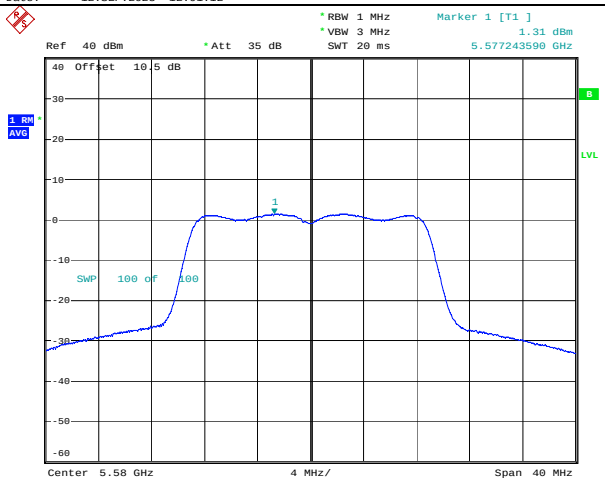
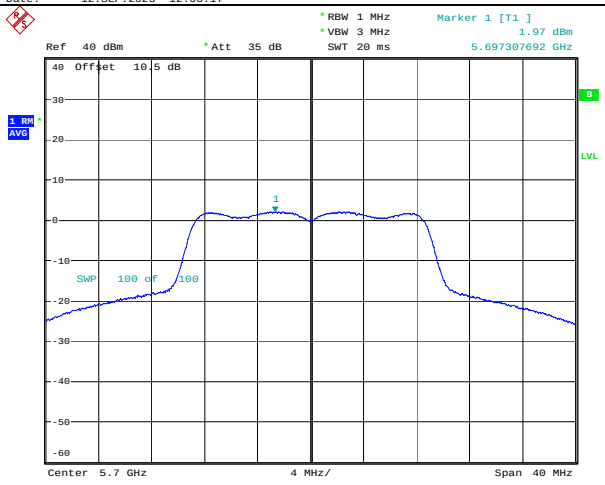
| Maximum power spectral density | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

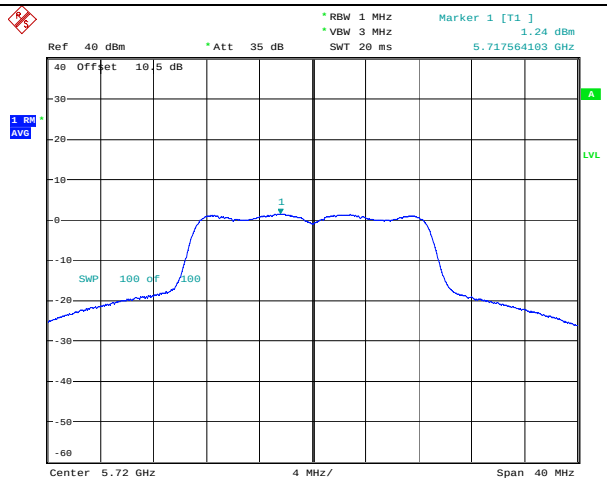
| Maximum power spectral density | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

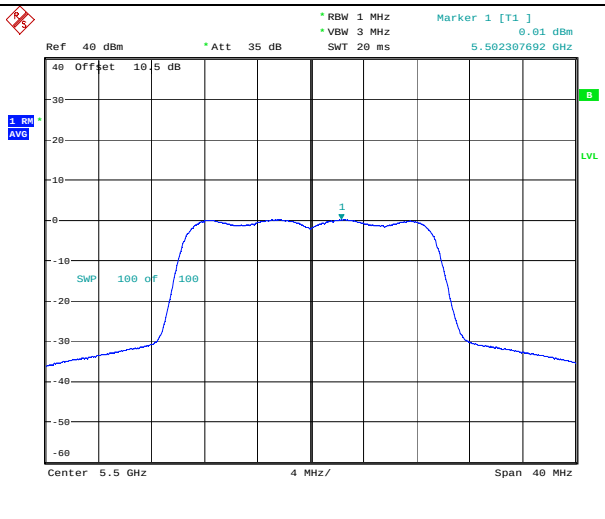
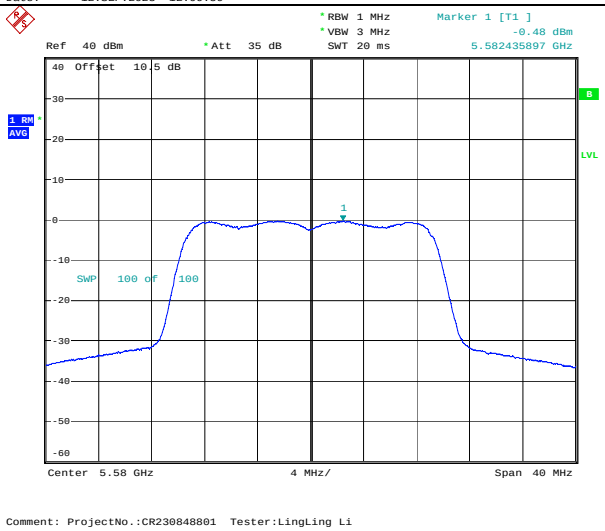
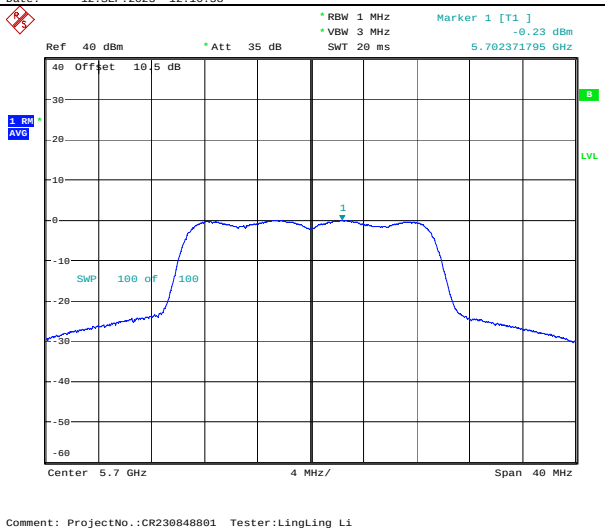
**5470-5725MHz:**

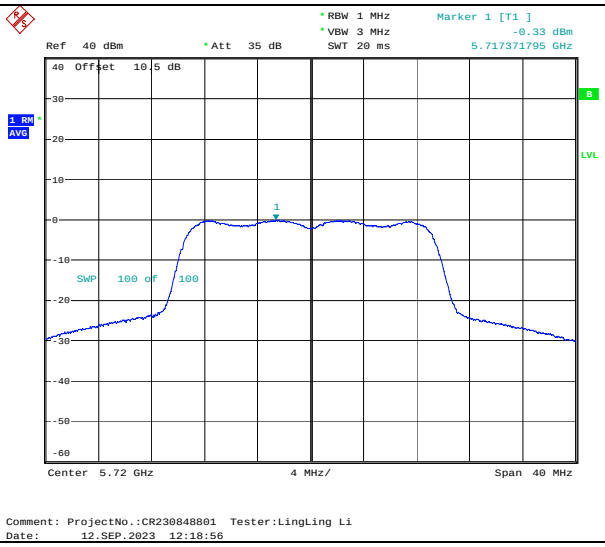
| Maximum power spectral density | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| | |
|---|---|
| 5720 MHz |  RBW 1 MHz<br>VBW 3 MHz<br>SWT 20 ms<br>Marker 1 [T1 ]<br>1.58 dBm<br>5.717371795 GHz<br>Ref 40 dBm<br>Att 35 dB<br>40 Offset 10.5 dB<br>1 RM AVG<br>A<br>LVL<br>SWP 100 of 100<br>Center 5.72 GHz<br>4 MHz/<br>Span 40 MHz<br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 16:29:31 |

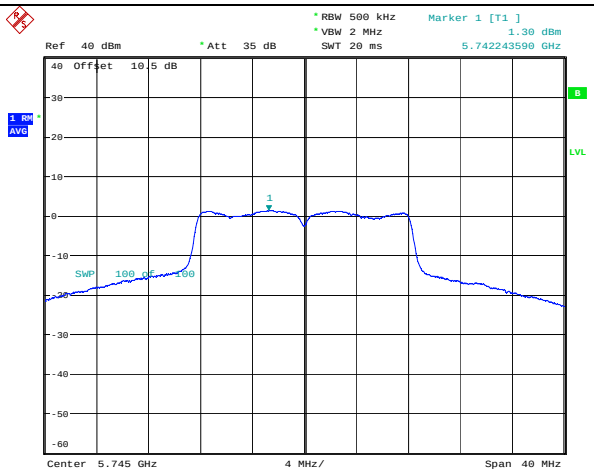
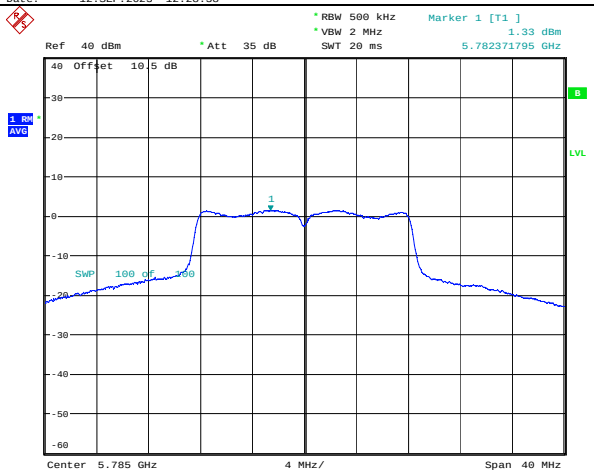
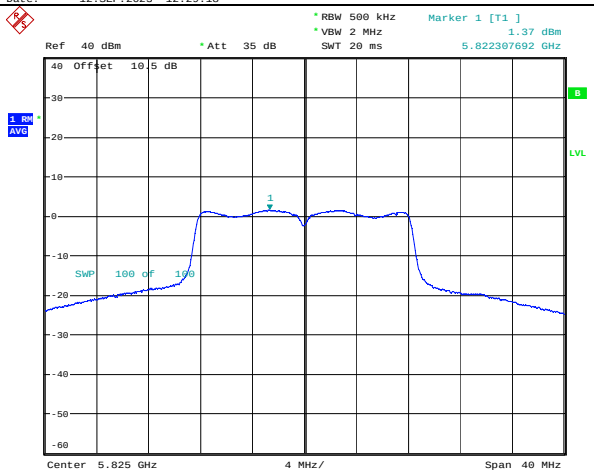
| Maximum power spectral density | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  |
| 802.11n ht20<br>Middle Channel |  |
| 802.11n ht20<br>Highest Channel |  |

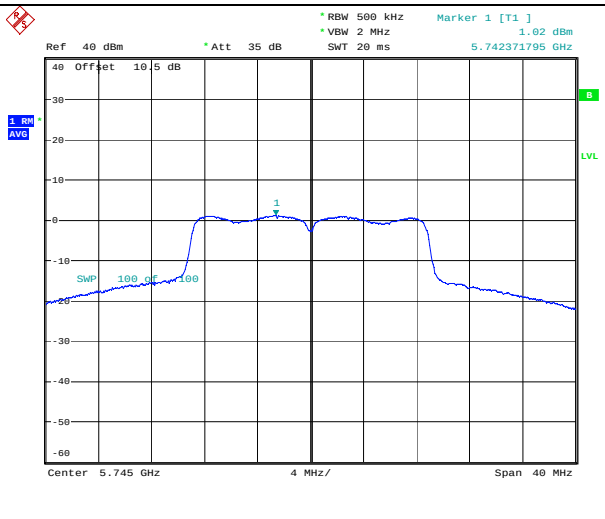
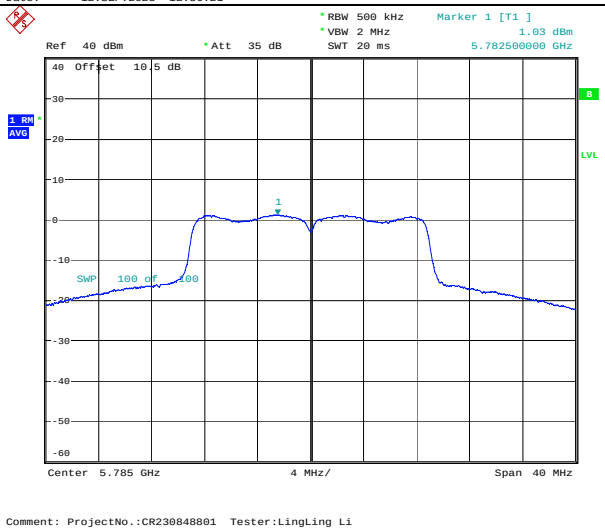
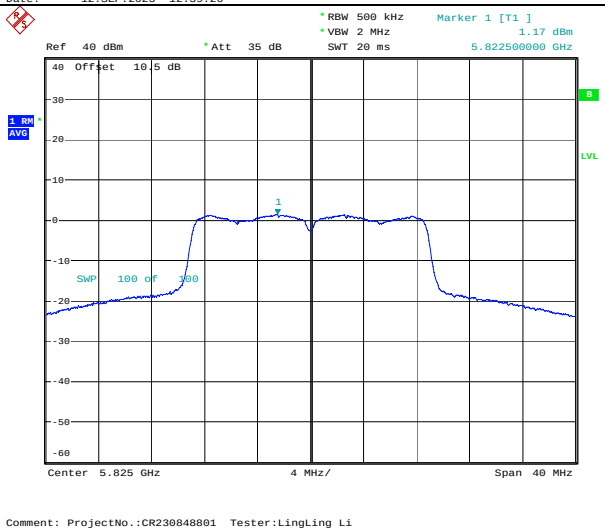
| | |
|---|---|
| 5720 MHz |  RBW 1 MHz<br>VBW 3 MHz<br>SWT 20 ms<br>Marker 1 [T1 ]<br>1.24 dBm<br>5.717564103 GHz<br>Ref 40 dBm<br>Att 35 dB<br>40 Offset 10.5 dB<br>1 RM AVG<br>A<br>LVL<br>SWP 100 of 100<br>Center 5.72 GHz<br>4 MHz/<br>Span 40 MHz<br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 16:26:23 |

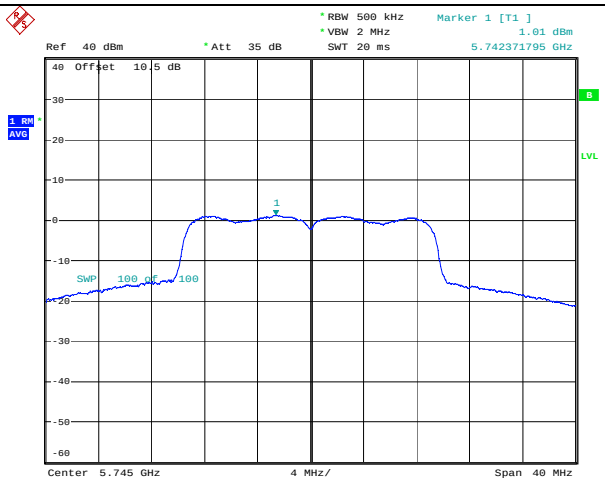
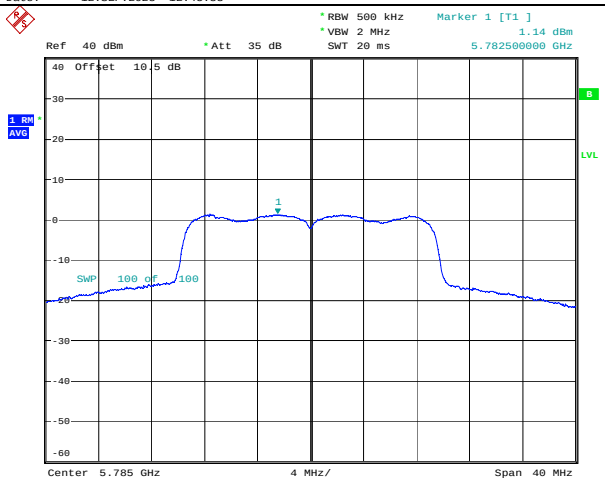
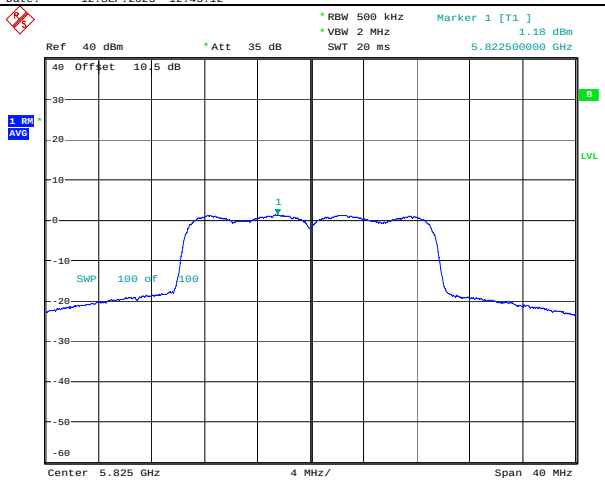
| Maximum power spectral density | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

| | |
|---|---|
| 5720 MHz |  RBW 1 MHz<br>VBW 3 MHz<br>SWT 20 ms<br>Marker 1 [T1 ]<br>-0.33 dBm<br>5.717371795 GHz<br>Ref 40 dBm<br>Att 35 dB<br>40 Offset 10.5 dB<br>1 RM<br>AVG<br>B<br>LVL<br>SWP 100 of 100<br>Center 5.72 GHz<br>4 MHz/<br>Span 40 MHz<br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 12:18:56 |

**5725-5850MHz**

| Maximum power spectral density | |
|---|---|
| 802.11a<br>Lowest Channel |  |
| 802.11a<br>Middle Channel |  |
| 802.11a<br>Highest Channel |  |

| Maximum power spectral density | |
|---|---|
| 802.11n ht20<br>Lowest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 12:36:21 |
| 802.11n ht20<br>Middle Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 12:39:20 |
| 802.11n ht20<br>Highest Channel |  <br>Comment: ProjectNo.:CR230848801 Tester:LingLing Li<br>Date: 12.SEP.2023 12:40:00 |

| Maximum power spectral density | |
|---|---|
| 802.11ax hew20<br>Lowest Channel |  |
| 802.11ax hew20<br>Middle Channel |  |
| 802.11ax hew20<br>Highest Channel |  |

## 4.6 Duty Cycle:

| Serial Number: | 2A8G-2 | Test Date: | 2023/9/12 |
|---|---|---|---|
| Test Site: | RF | Test Mode: | Transmitting |
| Tester: | LingLing Li | Test Result: | N/A |

| Environmental Conditions: | | | | | |
|---|---|---|---|---|---|
| Temperature: (℃) | 25.9 | Relative Humidity: (%) | 60 | ATM Pressure: (kPa) | 100.2 |

**Test Equipment List and Details:**

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| R&S | Spectrum Analyzer | FSU26 | 100147 | 2023/3/31 | 2024/3/30 |
| zhuoxiang | Coaxial Cable | SMA-178 | 211002 | Each time | N/A |
| eastsheep | Coaxial Attenuator | 2W-SMA-JK-18G | 21060301 | Each time | N/A |

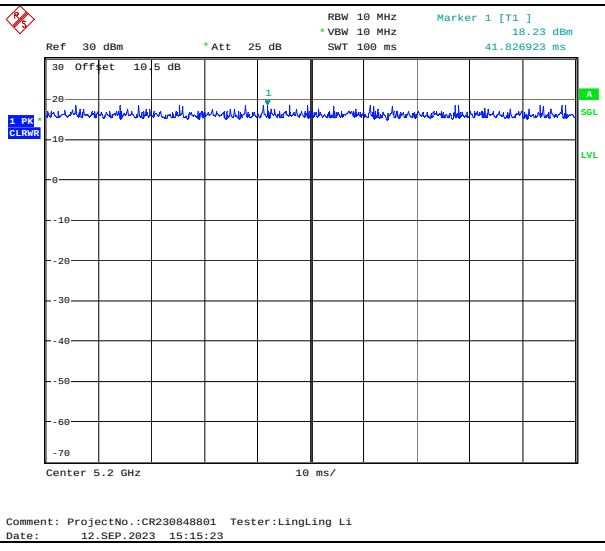
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

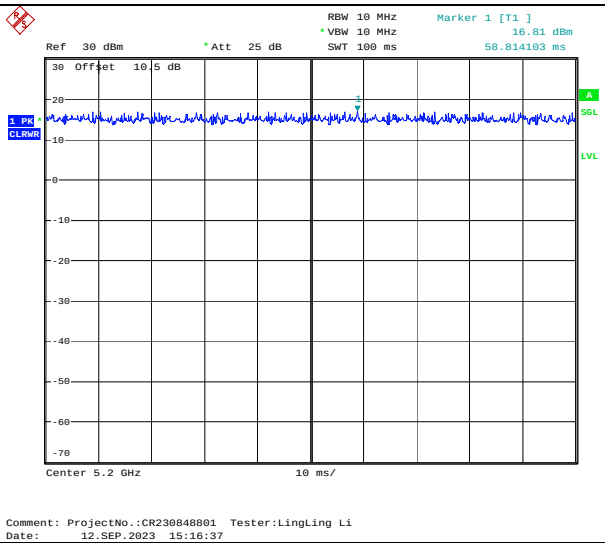
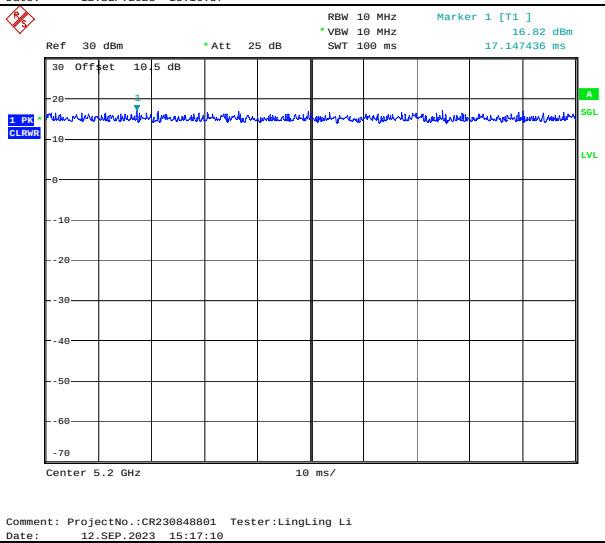
**Test Data:**

| Test Modes | Ton (ms) | Ton+off (ms) | Duty cycle (%) | 1/T (Hz) | Duty Cycle Factor (dB) | VBW Setting (Hz) |
|---|---|---|---|---|---|---|
| 802.11a | 100 | 100 | 100.00 | / | / | 10 |
| 802.11n ht20 | 100 | 100 | 100.00 | / | / | 10 |
| 802.11ax hew20 | 100 | 100 | 100.00 | / | / | 10 |

**Duty Cycle**

**802.11a**



| Duty Cycle | |
|---|---|
| **802.11n ht20** |  |
| **802.11ax hew20** |  |

# 5. EUT PHOTOGRAPHS

Please refer to the attachment CR230848801-EXP EUT EXTERNAL PHOTOGRAPHS and CR230848801-INP EUT INTERNAL PHOTOGRAPHS

# 6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR230848801-00C-TSP TEST SETUP PHOTOGRAPHS.

**===== END OF REPORT =====**