



FCC PART 15.407

TEST REPORT

For

Thundercomm Technology Co., Ltd

Building 4, No. 99, Data Valley Middle Road, Xiantao District, Yubei District, Chongqing, China

FCC ID: 2AOHH-TURBOXC865

| | |
|---|--------------------------------------|
| Report Type: Original Report | Product Type: Robotics RB5 |
| Report Number: <u>RSZ200701002-00C</u> | |
| Report Date: <u>2021-08-04</u> | |
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | |
|---------------------------------------|---|
| Product | Robotics RB5 |
| Tested Model | TurboX C865 Dev Kit |
| Frequency Range | 5G Wi-Fi: 5150-5250MHz; 5250-5350MHz; 5470-5730MHz; 5725-5850MHz |
| Maximum Conducted Average Ouput Power | 5150-5250 MHz: 14.76dBm (802.11a), 14.8dBm(802.11n20), 16.4dBm(802.11n40) 14.8dBm (802.11ac20), 15.5dBm(802.11 ac40), 14.0dBm(802.11 ac80) 14.3dBm (802.11ax20), 12.9dBm(802.11 ax40), 13.9dBm(802.11 ax80) 5250-5350MHz: 14.76dBm (802.11a), 14.7dBm(802.11n20), 16.2dBm(802.11n40) 14.7dBm (802.11ac20), 15.3dBm(802.11 ac40), 14.0dBm(802.11 ac80) 14.2dBm (802.11ax20), 12.0dBm(802.11 ax40), 14.1dBm(802.11 ax80) 5470-5725MHz: 16.16dBm (802.11a), 16.6dBm(802.11n20), 18.6dBm(802.11n40) 16.7dBm (802.11ac20), 17.8dBm(802.11 ac40), 17.1dBm(802.11 ac80) 16.8 dBm (802.11ax20), 19.2dBm(802.11 ax40), 18.5dBm(802.11 ax80) 5725-5850 MHz: 11.66dBm (802.11a), 14.2dBm(802.11n20), 13.8dBm(802.11n40) 14.2dBm (802.11ac20), 12.9dBm(802.11 ac40), 12.7dBm(802.11 ac80) 13.7dBm (802.11ax20), 13.7dBm(802.11 ax40), 13.3dBm(802.11 ax80) |
| Modulation Technique | OFDM |
| Antenna Gain* | Antenna 0: 0dBi; Antenna 1: -3dBi (It is provided by the applicant) |
| Voltage Range | DC12V from adapter |
| Date of Test | 2021-04-09 to 2021-07-20 |
| Sample serial number | RSZ200701002-RF-S1(Assigned by BACL, Shenzhen) |
| Received date | 2020-07-01 |
| Sample/EUT Status | Good condition |
| Adapter Information | Model:LYD1202500B Input :100-240V,0.68A,50/60Hz Output:12.0V,2.5A |

Objective

This type approval report is prepared in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.
Each test item follows test standards and with no deviation

Measurement Uncertainty

| Parameter | Uncertainty | |
|------------------------------------|--------------------------|--------------------|
| Occupied Channel Bandwidth | ±5% | |
| RF Output Power with Power meter | ±0.73dB | |
| RF conducted test with spectrum | ±1.6dB | |
| AC Power Lines Conducted Emissions | ±1.95dB | |
| Emissions, Radiated | Below 1GHz Above 1GHz | ±4.75dB ±4.88dB |
| Temperature | ±1°C | |
| Humidity | ±6% | |
| Supply voltages | ±0.4% | |

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

The EUT can operate in 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80 modes.

For 5150-5250MHz Band, 7 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 36 | 5180 | 44 | 5220 |
| 38 | 5190 | 46 | 5230 |
| 40 | 5200 | 48 | 5240 |
| 42 | 5210 | / | / |

For 5250-5350MHz Band, 7 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 52 | 5260 | 60 | 5300 |
| 54 | 5270 | 62 | 5310 |
| 56 | 5280 | 64 | 5320 |
| 58 | 5290 | / | / |

For 5470-5725MHz Band, 21 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 100 | 5500 | 124 | 5620 |
| 102 | 5510 | 126 | 5630 |
| 104 | 5520 | 128 | 5640 |
| 106 | 5530 | 132 | 5660 |
| 108 | 5540 | 134 | 5670 |
| 110 | 5550 | 136 | 5680 |
| 112 | 5560 | 138 | 5690 |
| 116 | 5580 | 140 | 5700 |
| 118 | 5590 | 142 | 5710 |
| 120 | 5600 | 144 | 5720 |
| 122 | 5610 | / | / |

For 5725-5850MHz Band, 8 channels are provided to testing:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 149 | 5745 | 157 | 5785 |
| 151 | 5755 | 159 | 5795 |
| 153 | 5765 | 161 | 5805 |
| 155 | 5775 | 165 | 5825 |

EUT Exercise Software

EUT Exercise Software

QRCT.EXE was used. Test frequencies and power level were configured as below:

| U-NII | Mode | Frequency (MHz) | Rate (Mbps) | Power Level |
|----------------|-------------|-----------------|-------------|-------------|
| 5150 – 5250MHz | 802.11 a | 5180 | 6 | 17 |
| | | 5200 | 6 | 17 |
| | | 5240 | 6 | 17 |
| | 802.11 n20 | 5180 | MCS0 | 15 |
| | | 5200 | MCS0 | 15 |
| | | 5240 | MCS0 | 15 |
| | 802.11 n40 | 5190 | MCS0 | 16 |
| | | 5230 | MCS0 | 16 |
| | 802.11 ac20 | 5180 | MCS0 | 15 |
| | | 5200 | MCS0 | 15 |
| | | 5240 | MCS0 | 15 |
| | 802.11 ac40 | 5190 | MCS0 | 15 |
| | | 5230 | MCS0 | 15 |
| | 802.11 ac80 | 5210 | MCS0 | 14 |
| | 802.11ax20 | 5180 | MCS11 | 14 |
| | | 5200 | MCS11 | 14 |
| | | 5240 | MCS11 | 14 |
| | 802.11ax40 | 5190 | MCS11 | 15 |
| | | 5230 | MCS11 | 15 |
| | 802.11ax80 | 5210 | MCS11 | 14 |

| U-NII | Mode | Frequency (MHz) | Rate (Mbps) | Power Level |
|----------------|-------------|------------------------|--------------------|--------------------|
| 5250 – 5350MHz | 802.11 a | 5260 | 6 | 17 |
| | | 5280 | 6 | 17 |
| | | 5320 | 6 | 17 |
| | 802.11 n20 | 5260 | MCS0 | 15 |
| | | 5280 | MCS0 | 15 |
| | | 5320 | MCS0 | 15 |
| | 802.11 n40 | 5270 | MCS0 | 16 |
| | | 5310 | MCS0 | 16 |
| | 802.11 ac20 | 5260 | MCS0 | 15 |
| | | 5280 | MCS0 | 15 |
| | | 5320 | MCS0 | 15 |
| | 802.11 ac40 | 5270 | MCS0 | 15 |
| | | 5310 | MCS0 | 15 |
| | 802.11 ac80 | 5290 | MCS0 | 14 |
| | 802.11ax20 | 5260 | MCS11 | 14 |
| | | 5280 | MCS11 | 14 |
| | | 5320 | MCS11 | 14 |
| | 802.11ax40 | 5270 | MCS11 | 15 |
| | | 5310 | MCS11 | 15 |
| | 802.11ax80 | 5290 | MCS11 | 14 |
| 5470 – 5725MHz | 802.11 a | 5500 | 6 | 18 |
| | | 5600 | 6 | 17 |
| | | 5720 | 6 | 17 |
| | 802.11 n20 | 5500 | MCS0 | 15 |
| | | 5600 | MCS0 | 15 |
| | | 5720 | MCS0 | 15 |
| | 802.11 n40 | 5510 | MCS0 | 16 |
| | | 5550 | MCS0 | 16 |
| | | 5710 | MCS0 | 16 |
| | 802.11 ac20 | 5500 | MCS0 | 15 |
| | | 5600 | MCS0 | 15 |
| | | 5720 | MCS0 | 15 |
| | 802.11 ac40 | 5510 | MCS0 | 15 |
| | | 5550 | MCS0 | 15 |
| | | 5710 | MCS0 | 15 |
| | 802.11 ac80 | 5530 | MCS0 | 14 |
| | | 5610 | MCS0 | 14 |
| | | 5690 | MCS0 | 14 |
| | 802.11ax20 | 5500 | MCS11 | 14 |
| | | 5600 | MCS11 | 14 |
| | | 5720 | MCS11 | 14 |

| U-NII | Mode | Frequency (MHz) | Rate (Mbps) | Power Level |
|----------------|-------------|------------------------|--------------------|--------------------|
| 5470 – 5725MHz | 802.11ax40 | 5510 | MCS11 | 15 |
| | | 5550 | MCS11 | 15 |
| | | 5710 | MCS11 | 15 |
| | 802.11ax80 | 5530 | MCS11 | 14 |
| | | 5610 | MCS11 | 14 |
| | | 5690 | MCS11 | 14 |
| 5725 – 5850MHz | 802.11 a | 5745 | 6 | 17 |
| | | 5785 | 6 | 17 |
| | | 5825 | 6 | 17 |
| | 802.11 n20 | 5745 | MCS0 | 17 |
| | | 5785 | MCS0 | 17 |
| | | 5825 | MCS0 | 17 |
| | 802.11 n40 | 5755 | MCS0 | 16 |
| | | 5795 | MCS0 | 16 |
| | 802.11 ac20 | 5745 | MCS0 | 17 |
| | | 5785 | MCS0 | 17 |
| | | 5825 | MCS0 | 17 |
| | 802.11 ac40 | 5755 | MCS0 | 15 |
| | | 5795 | MCS0 | 15 |
| | 802.11 ac80 | 5775 | MCS0 | 15 |
| | 802.11ax20 | 5745 | MCS11 | 16 |
| | | 5785 | MCS11 | 16 |
| | | 5825 | MCS11 | 16 |
| | 802.11ax40 | 5755 | MCS11 | 15 |
| | | 5795 | MCS11 | 15 |
| | 802.11ax80 | 5775 | MCS11 | 15 |

The worse-case data rates are determined to be as follows for each mode based upon investigations by measuring the output power and PSD across all data rated bandwidths, and modulations.

The device supports SISO for 802.11a mode and MIMO for other modes, per pretest, the MIMO mode was the worst mode for all the modes except the 802.11a mode. The device not support Beamforming mode.

Duty cycle

Test Result: Compliant. Please refer to the Appendix.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

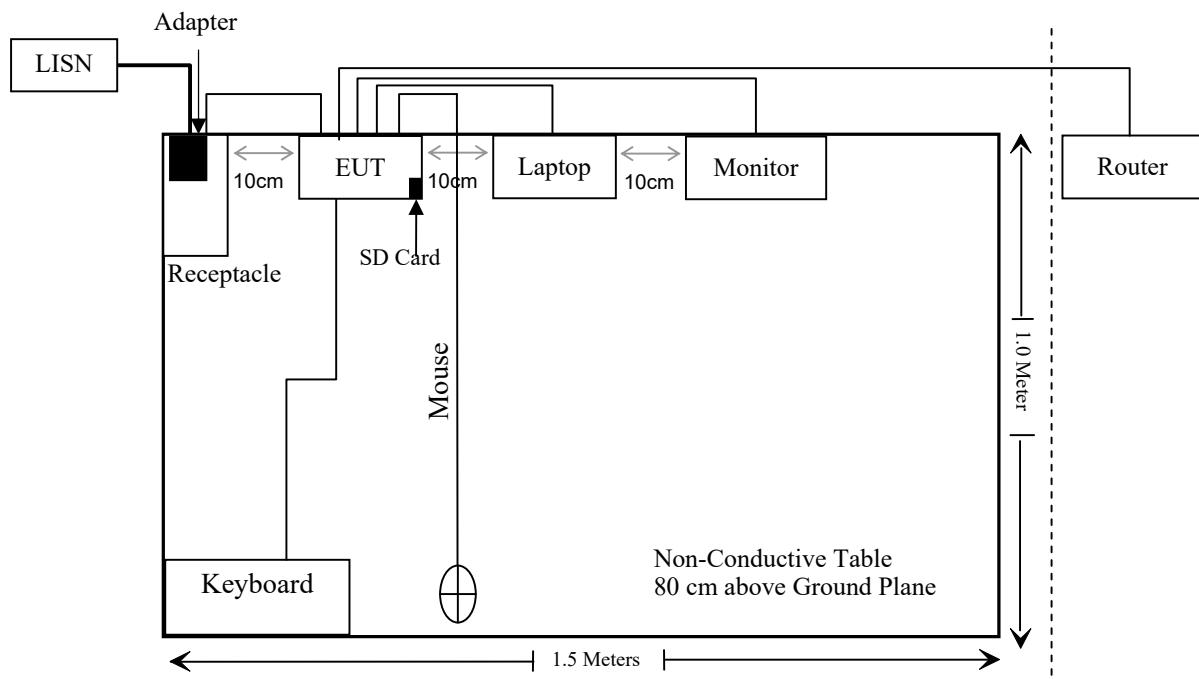
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|--------------------|-----------------|
| DELL | Laptop | Latitude E6520 | H067T A00 |
| SAMSUNG | Monitor | S24E390HL | ZZFRH4ZN303357K |
| TCL | Monitor | L32F3301B | RD851P2 |
| HIKVISION | Router | DS-3WR03-E | 10021642429 |
| maxin | Keyborad | KEY-663 | 1210001678 |
| DELL | Mouse | M-U0026 | DZL-M-U0026(B) |
| Sandisk | SD Card | SDSDUNG-128G-ZN61N | SD012463 |

External I/O Cable

| Cable Description | Length (m) | From/Port | To |
|---|------------|------------|----------|
| Un-shielding Un-Detachable AC Cable | 1.0 | Receptacle | LISN |
| Un-shielding Un-Detachable DC Cable | 1.2 | Adapter | EUT |
| Un-Shielding Detachable USB to Type-C Cable | 1.0 | EUT | Laptop |
| Un-Shielding Detachable HDMI Cable | 2.5 | EUT | Monitor |
| Un-Shielding Detachable RJ45 Cable | 10 | EUT | Router |
| Un-shielding Un-Detachable USB Cable | 1.2 | EUT | Mouse |
| Un-shielding Un-Detachable USB Cable | 1.2 | EUT | Keyboard |

Block Diagram of Test Setup

For conducted emission



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|--|--|----------------|
| §1.1307 (b) (1) & §2.1091 | MaximuM Permissible exposure (MPE) | Compliance |
| §15.203 | Antenna Requirement | Compliance |
| §15.407(b)(6)& §15.207(a) | Conducted Emissions | Compliance |
| §15.205& §15.209 &§15.407(b) (1), (2), (3), (4), (6) (7) | Undesirable Emission& Restricted Bands | Compliance |
| §15.407(a) (1), (5),(e) | 26 dB Emission Bandwidth & 6dB Bandwidth | Compliance |
| §15.407(a)(1),(2), (3) | Conducted Transmitter Output Power | Compliance |
| §15.407 (a)(1), (2), (3) | Power Spectral Density | Compliance |
| §15.407 (h) | Transmit Power Control (TPC) | Not Applicable |
| §15.407 (h) | Dynamic Frequency Selection (DFS) | Compliance** |

Not Applicable: A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------------------------|------------------------------|-------------------------|------------------------|------------------|----------------------|
| Conducted Emissions Test | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101120 | 2020/08/04 | 2021/08/03 |
| Rohde & Schwarz | LISN | ENV216 | 101613 | 2020/08/04 | 2021/08/03 |
| Rohde & Schwarz | Transient Limitor | ESH3Z2 | DE25985 | 2019/11/29 | 2020/11/28 |
| Unknow | CE Cable | CE Cable | UF A210B-1-0720-504504 | 2019/11/29 | 2020/11/28 |
| Rohde & Schwarz | CE Test software | EMC 32 | V8.53.0 | NCR | NCR |
| Radiated Emission Test | | | | | |
| R&S | EMI Test Receiver | ESR3 | 102455 | 2020/08/04 | 2021/08/03 |
| Sonoma instrument | Pre-amplifier | 310 N | 186238 | 2020/08/04 | 2021/08/03 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-1 | 2017/12/22 | 2020/12/21 |
| COM-POWER | Dipole Antenna | AD-100 | 721027 | NCR | NCR |
| Unknown | Cable 2 | RF Cable 2 | F-03-EM197 | 2019/11/29 | 2020/11/28 |
| Rohde & Schwarz | Auto test software | EMC 32 | V9.10 | NCR | NCR |
| Rohde & Schwarz | Spectrum Analyzer | FSV40-N | 102259 | 2020/08/04 | 2021/08/03 |
| COM-POWER | Pre-amplifier | PA-122 | 181919 | 2019/11/29 | 2020/11/28 |
| COM-POWER | Pre-amplifier | PA-122 | 181919 | 2020/11/29 | 2021/11/28 |
| Quinstar | Amplifier | QLW-18405536-J0 | 15964001002 | 2019/11/29 | 2020/11/28 |
| Quinstar | Amplifier | QLW-18405536-J0 | 15964001002 | 2020/11/29 | 2021/11/28 |
| Sunol Sciences | Horn Antenna | DRH-118 | A052604 | 2017/12/22 | 2020/12/21 |
| Ducommun Technologies | Horn antenna | ARH-4223-02 | 1007726-02 1304 | 2017/12/06 | 2020/12/05 |
| Ducommun Technologies | Horn antenna | ARH-4223-02 | 1007726-02 1304 | 2020/12/06 | 2023/12/05 |
| Ducommun Technologies | Horn antenna | ARH-2823-02 | 1007726-02 1302 | 2017/12/06 | 2020/12/05 |
| Ducommun Technologies | Horn antenna | ARH-2823-02 | 1007726-02 1302 | 2020/12/06 | 2023/12/05 |
| Insulted Wire Inc. | RF Cable | SPS-2503-3150 | 02222010 | 2019/11/29 | 2020/11/28 |
| Insulted Wire Inc. | RF Cable | SPS-2503-3150 | 02222010 | 2020/11/29 | 2021/11/28 |
| Unknown | RF Cable | W1101-EQ1 OUT | F-19-EM005 | 2019/11/29 | 2020/11/28 |
| Unknown | RF Cable | W1101-EQ1 OUT | F-19-EM005 | 2020/11/29 | 2021/11/28 |
| SNSD | Band Reject filter | BSF5150-5850MN-0899-004 | 5G filter | 2020/04/20 | 2021/04/20 |
| RF Conduct Test | | | | | |
| Tonscend Corporation | RF control Unit | JS0806-2 | 19D8060154 | 2020/08/04 | 2021/08/03 |
| Rohde & Schwarz | Signal and Spectrum Analyzer | FSV40 | 101473 | 2020/08/04 | 2021/08/03 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

1.1307 (b) (1) & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 1.1307 (b)(1), 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

Limits for General Population/Uncontrolled Exposure

| Limits for General Population/Uncontrolled Exposure | | | | |
|--|--------------------------------------|--------------------------------------|--|---------------------------------|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (Minutes) |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

f = frequency in MHz

* = Plane-wave equivalent power density

Result

Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

| Mode | Frequency (MHz) | Antenna Gain | | Tune up conducted power | | Evaluation Distance (cm) | Power Density (mW/cm²) | MPE Limit (mW/cm²) |
|------------|-----------------|--------------|-----------|-------------------------|--------|--------------------------|------------------------|--------------------|
| | | (dBi) | (numeric) | (dBm) | (mW) | | | |
| Bluetooth | 2402-2480 | -3.0 | 0.50 | 2.0 | 1.58 | 20 | 0.00016 | 1 |
| BLE | 2402-2480 | -3.0 | 0.50 | 6.0 | 3.98 | 20 | 0.0004 | 1 |
| 2.4G Wi-Fi | 2412-2462 | -3.0 | 0.50 | 23.0 | 199.53 | 20 | 0.0198 | 1 |
| 5G Wi-Fi | 5150-5250 | 0 | 1.0 | 17.0 | 51.12 | 20 | 0.0102 | 1 |
| | 5250-5350 | 0 | 1.0 | 17.0 | 51.12 | 20 | 0.0102 | 1 |
| | 5470-5725 | 0 | 1.0 | 19.0 | 79.43 | 20 | 0.0158 | 1 |
| | 5725-5850 | 0 | 1.0 | 15.0 | 31.62 | 20 | 0.0063 | 1 |

Note: 1. the tune up conducted power was declared by the applicant
 2. the 2.4G Wi-Fi can transmit at the same time with the 5G Wi-Fi. The Bluetooth can't transmit at the same time with Wi-Fi.

Simultaneous transmitting consideration:

The ratio=MPE_{2.4G}/limit + MPE_{5G}/limit=0.0198+0.0158=0.0356<1.0

So simultaneous exposure comply with the limit.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliance

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

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

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has two PCB antennas arrangement which was permanently attached for 5G Wi-Fi. The antenna gain is 0dBi for antenna 0, -3dBi for antenna 1, fulfill the requirement of this section. Please refer to the EUT photos.

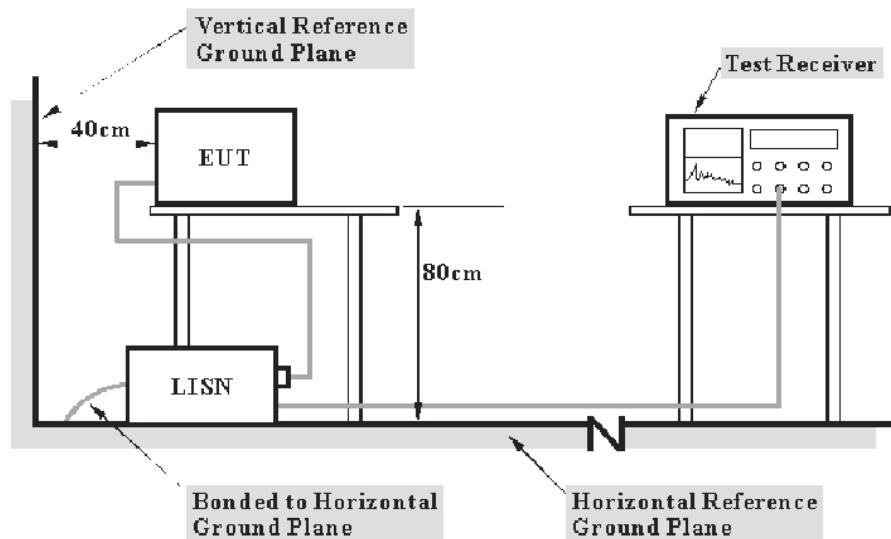
Result: Compliance.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

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.

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 |

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the EUT complied with the FCC Part 15.207.

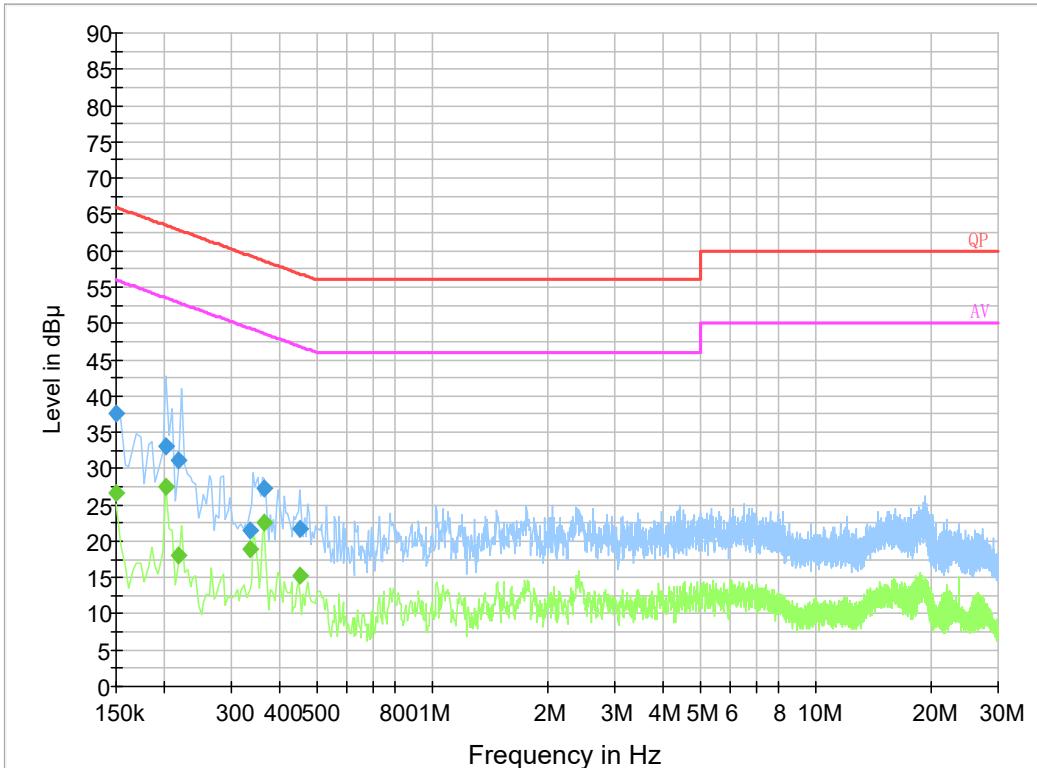
Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 26 °C |
| Relative Humidity: | 57 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Haiguo Li on 2021-07-20.

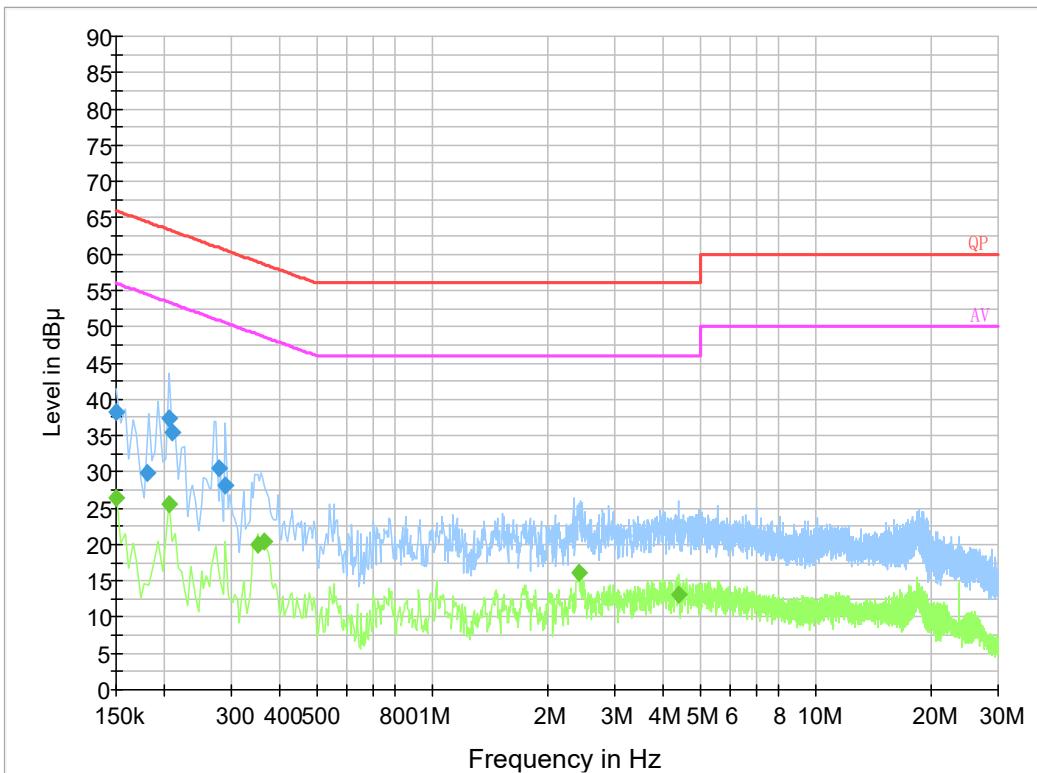
EUT operation mode: Transmitting (worst case is 802.11ac20 mode 5785 MHz)

AC 120V/60 Hz, Line**Final Result 1**

| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----------------|------|------------|-------------|--------------------|
| 0.150000 | 37.5 | 9.000 | L1 | 19.8 | 28.5 | 66.0 |
| 0.201500 | 33.1 | 9.000 | L1 | 19.8 | 30.4 | 63.5 |
| 0.217500 | 31.1 | 9.000 | L1 | 19.8 | 31.8 | 62.9 |
| 0.336870 | 21.5 | 9.000 | L1 | 19.8 | 37.8 | 59.3 |
| 0.364570 | 27.4 | 9.000 | L1 | 19.9 | 31.2 | 58.6 |
| 0.451190 | 21.6 | 9.000 | L1 | 19.8 | 35.3 | 56.9 |

Final Result 2

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 0.150000 | 26.6 | 9.000 | L1 | 19.8 | 29.4 | 56.0 |
| 0.201500 | 27.5 | 9.000 | L1 | 19.8 | 26.0 | 53.5 |
| 0.217500 | 18.1 | 9.000 | L1 | 19.8 | 34.8 | 52.9 |
| 0.336870 | 18.9 | 9.000 | L1 | 19.8 | 30.4 | 49.3 |
| 0.364570 | 22.6 | 9.000 | L1 | 19.9 | 26.0 | 48.6 |
| 0.451190 | 15.2 | 9.000 | L1 | 19.8 | 31.7 | 46.9 |

AC 120V/60 Hz, Neutral:**Final Result 1**

| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------------|-----------------|------|------------|-------------|--------------------|
| 0.150000 | 38.2 | 9.000 | N | 19.8 | 27.8 | 66.0 |
| 0.181500 | 29.8 | 9.000 | N | 19.8 | 34.6 | 64.4 |
| 0.205500 | 37.3 | 9.000 | N | 19.8 | 26.1 | 63.4 |
| 0.210500 | 35.5 | 9.000 | N | 19.8 | 27.7 | 63.2 |
| 0.277500 | 30.6 | 9.000 | N | 19.7 | 30.3 | 60.9 |
| 0.289500 | 28.2 | 9.000 | N | 19.7 | 32.3 | 60.5 |

Final Result 2

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|----------------------|-----------------|------|------------|-------------|--------------------|
| 0.150000 | 26.4 | 9.000 | N | 19.8 | 29.6 | 56.0 |
| 0.206000 | 25.5 | 9.000 | N | 19.8 | 27.9 | 53.4 |
| 0.350000 | 19.9 | 9.000 | N | 19.9 | 29.1 | 49.0 |
| 0.366000 | 20.4 | 9.000 | N | 19.9 | 28.2 | 48.6 |
| 2.414000 | 16.0 | 9.000 | N | 19.8 | 30.0 | 46.0 |
| 4.406000 | 13.2 | 9.000 | N | 19.9 | 32.8 | 46.0 |

§15.205 & §15.209 & §15.407(B) (1), (2), (3), (4),(6),(7) – UNDESIRABLE EMISSION

Applicable Standard

FCC §15.407 (b) (1), (2), (3), (4), (6), (7); §15.209; §15.205;

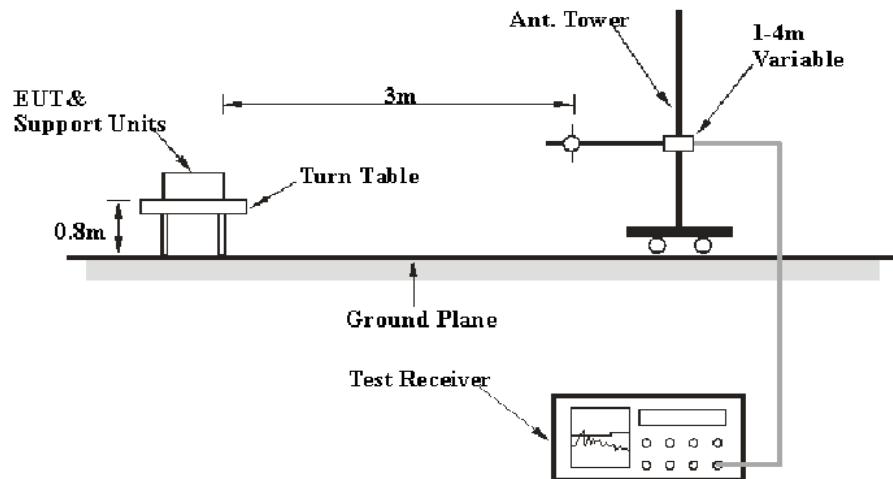
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

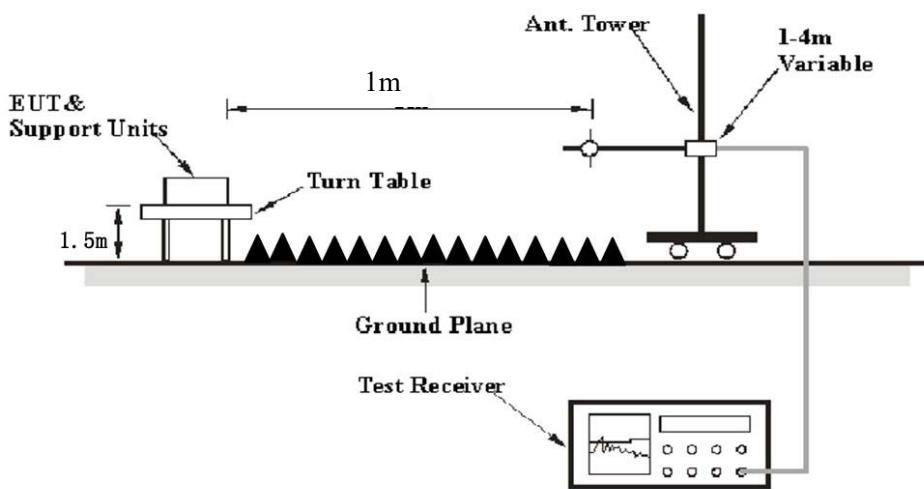
- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (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 in the 5.725-5.85 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.

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



Above 1 GHz:

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and 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.

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:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-------------------------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1 MHz | 3 MHz | / | PK |
| | 1MHz | 10 Hz ^{Note 1} | / | Average |
| | 1MHz | >1/T ^{Note 2} | / | Average |

Note 1: when duty cycle is no less than 98%

Note 2: when duty cycle is less than 98%

Test Procedure**Radiated Spurious Emission**

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

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

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

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart E, section 15.205, 15.209 and 15.407 rules.

Test Data

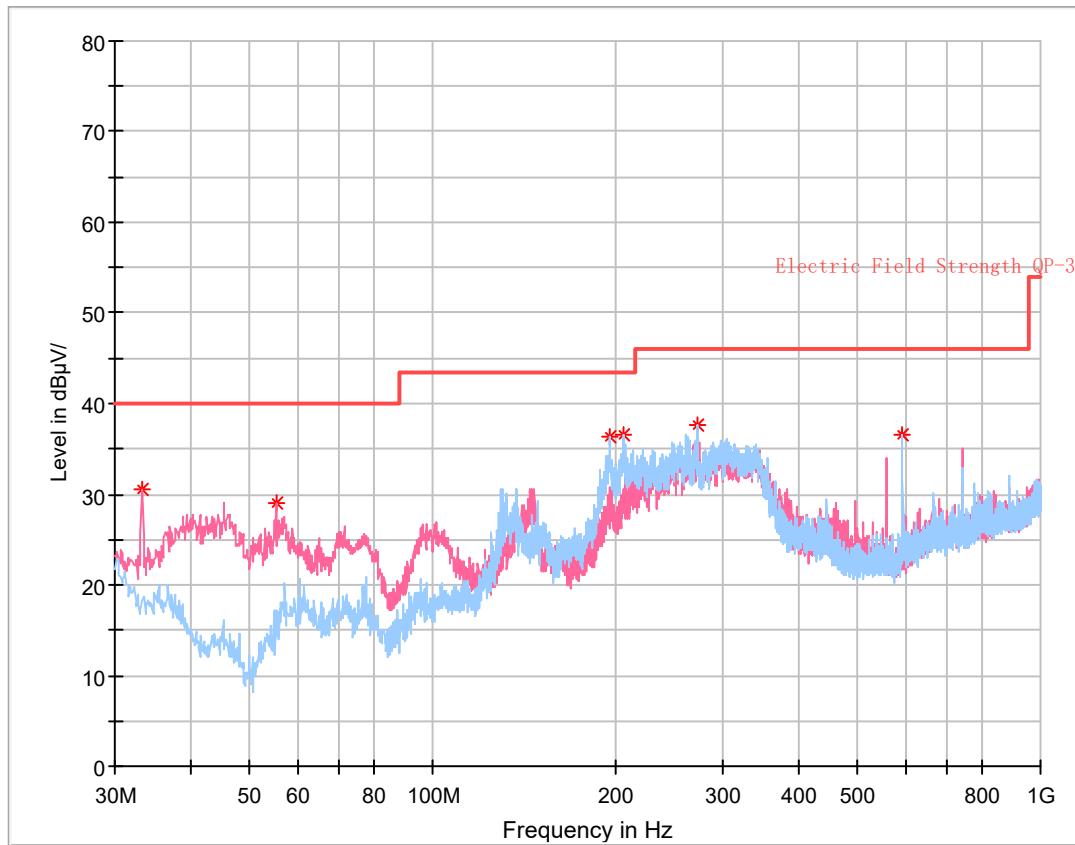
Environmental Conditions

| | |
|---------------------------|-----------------|
| Temperature: | 26.7~29°C |
| Relative Humidity: | 50~51 % |
| ATM Pressure: | 101.0~101.2 kPa |

The testing was performed by Cloud Qiu on 2021-07-19 for below 1GHz and by Alan He on 2021-04-10 for above 1GHz.

EUT operation mode: Transmitting

30 MHz~1 GHz: (the worst case at 802.11n20 mode, 2412MHz+802.11ac20 mode 5785 MHz)



Critical Freqs

| Frequency (MHz) | MaxPeak (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|------------------------|----------------------|-------------|-------------|-----|---------------|------------|
| 33.273750 | 30.60 | 40.00 | 9.40 | 100.0 | V | 115.0 | -6.1 |
| 55.220000 | 28.94 | 40.00 | 11.06 | 100.0 | V | 23.0 | -16.6 |
| 195.627500 | 36.43 | 43.50 | 7.07 | 100.0 | H | 189.0 | -11.6 |
| 205.448750 | 36.50 | 43.50 | 7.00 | 100.0 | H | 228.0 | -11.1 |
| 272.378750 | 37.53 | 46.00 | 8.47 | 100.0 | H | 199.0 | -11.0 |
| 594.055000 | 36.56 | 46.00 | 9.44 | 100.0 | H | 199.0 | -4.5 |

1 ~ 40 GHz:

Note: The test distance is 1m, so the correct factor from 3m to 1m is $20\log(3/1)=9.5\text{dB}$ which was added into the final limit.

5150-5250 MHz:

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|---|-------------------------|------------|---------------------|---------------|------------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H / V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11a(Antenna 0 is the worst case) | | | | | | | | | | | | |
| 5180 MHz | | | | | | | | | | | | |
| 5145.61 | 31.76 | PK | 325 | 1.1 | H | 38.36 | 70.12 | 83.5 | 13.38 | | | |
| 5145.61 | 17.26 | Ave. | 249 | 1.8 | H | 38.36 | 55.62 | 63.5 | 7.88 | | | |
| 5350.68 | 31.66 | PK | 136 | 1.4 | H | 39.09 | 70.75 | 83.5 | 12.75 | | | |
| 5350.68 | 17.08 | Ave. | 136 | 1.4 | H | 39.09 | 56.17 | 63.5 | 7.33 | | | |
| 10360.00 | 43.12 | PK | 219 | 1.4 | H | 17.42 | 60.54 | 77.7 | 17.16 | | | |
| 5200 MHz | | | | | | | | | | | | |
| 10400.00 | 42.15 | PK | 176 | 2.5 | H | 17.52 | 59.67 | 77.7 | 18.03 | | | |
| 5240 MHz | | | | | | | | | | | | |
| 5146.41 | 30.54 | PK | 179 | 2.1 | H | 38.36 | 68.90 | 83.5 | 14.60 | | | |
| 5146.41 | 17.24 | Ave. | 179 | 2.1 | H | 38.36 | 55.60 | 63.5 | 7.90 | | | |
| 5355.61 | 31.09 | PK | 296 | 1.5 | H | 39.09 | 70.18 | 83.5 | 13.32 | | | |
| 5355.61 | 17.09 | Ave. | 296 | 1.5 | H | 39.09 | 56.18 | 63.5 | 7.32 | | | |
| 10480.00 | 42.14 | PK | 74 | 1.2 | H | 17.25 | 59.39 | 77.7 | 18.31 | | | |
| 802.11n20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5180 MHz | | | | | | | | | | | | |
| 5143.96 | 31.99 | PK | 169 | 2.0 | H | 38.36 | 70.35 | 83.5 | 13.15 | | | |
| 5143.96 | 17.23 | Ave. | 169 | 2.0 | H | 38.36 | 55.59 | 63.5 | 7.91 | | | |
| 5352.98 | 30.86 | PK | 222 | 1.5 | H | 39.09 | 69.95 | 83.5 | 13.55 | | | |
| 5352.98 | 17.06 | Ave. | 222 | 1.5 | H | 39.09 | 56.15 | 63.5 | 7.35 | | | |
| 10360.00 | 42.37 | PK | 229 | 2.0 | H | 17.42 | 59.79 | 77.7 | 17.91 | | | |
| 5200 MHz | | | | | | | | | | | | |
| 10400.00 | 42.21 | PK | 138 | 1.8 | H | 17.52 | 59.73 | 77.7 | 17.97 | | | |
| 5240 MHz | | | | | | | | | | | | |
| 5142.82 | 31.88 | PK | 279 | 1.6 | H | 38.36 | 70.24 | 83.5 | 13.26 | | | |
| 5142.82 | 17.22 | Ave. | 279 | 1.6 | H | 38.36 | 55.58 | 63.5 | 7.92 | | | |
| 5357.69 | 30.86 | PK | 178 | 1.7 | H | 39.09 | 69.95 | 83.5 | 13.55 | | | |
| 5357.69 | 17.09 | Ave. | 178 | 1.7 | H | 39.09 | 56.18 | 63.5 | 7.32 | | | |
| 10480.00 | 42.61 | PK | 248 | 2.0 | H | 17.25 | 59.86 | 77.7 | 17.84 | | | |

| Frequency (MHz) | Receiver | | Turntable | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | |
|---|-------------------------|------------|-----------|---------------|------------------|-------------------------------|--|----------------------------|----------------|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | Degree | Height (m) | Polar (H / V) | | | Limit (dB μ V/m) | Margin (dB) | | |
| 802.11ac20(MIMO mode is the worst case) | | | | | | | | | | | |
| 5180 MHz | | | | | | | | | | | |
| 5141.25 | 31.44 | PK | 248 | 1.9 | H | 38.36 | 69.80 | 83.5 | 13.70 | | |
| 5141.25 | 17.22 | Ave. | 248 | 1.9 | H | 38.36 | 55.58 | 63.5 | 7.92 | | |
| 5358.49 | 31.55 | PK | 37 | 2.5 | H | 39.09 | 70.64 | 83.5 | 12.86 | | |
| 5358.49 | 17.30 | Ave. | 37 | 2.5 | H | 39.09 | 56.39 | 63.5 | 7.11 | | |
| 10360.00 | 42.15 | PK | 209 | 2.5 | H | 17.42 | 59.57 | 77.7 | 18.13 | | |
| 5200 MHz | | | | | | | | | | | |
| 10400.00 | 42.10 | PK | 23 | 1.6 | H | 17.52 | 59.62 | 77.7 | 18.08 | | |
| 5240 MHz | | | | | | | | | | | |
| 5142.24 | 31.44 | PK | 160 | 1.4 | H | 38.36 | 69.80 | 83.5 | 13.70 | | |
| 5142.24 | 17.24 | Ave. | 160 | 1.4 | H | 38.36 | 55.60 | 63.5 | 7.90 | | |
| 5351.68 | 31.53 | PK | 88 | 1.4 | H | 39.09 | 70.62 | 83.5 | 12.88 | | |
| 5351.68 | 17.31 | Ave. | 88 | 1.4 | H | 39.09 | 56.40 | 63.5 | 7.10 | | |
| 10480.00 | 42.23 | PK | 342 | 1.9 | H | 17.25 | 59.48 | 77.7 | 18.22 | | |
| 802.11n40 (MIMO mode is the worst case) | | | | | | | | | | | |
| 5190 MHz | | | | | | | | | | | |
| 5145.19 | 31.89 | PK | 174 | 1.3 | H | 38.36 | 70.25 | 83.5 | 13.25 | | |
| 5145.19 | 17.21 | Ave. | 174 | 1.3 | H | 38.36 | 55.57 | 63.5 | 7.93 | | |
| 5351.36 | 31.62 | PK | 302 | 2.3 | H | 39.09 | 70.71 | 83.5 | 12.79 | | |
| 5351.36 | 17.11 | Ave. | 302 | 2.3 | H | 39.09 | 56.20 | 63.5 | 7.30 | | |
| 10380.00 | 42.25 | PK | 299 | 1.0 | H | 17.42 | 59.67 | 77.7 | 18.03 | | |
| 5230 MHz | | | | | | | | | | | |
| 5149.51 | 31.84 | PK | 280 | 1.0 | H | 38.36 | 70.20 | 83.5 | 13.30 | | |
| 5149.51 | 17.24 | Ave. | 280 | 1.0 | H | 38.36 | 55.57 | 63.5 | 7.90 | | |
| 5357.64 | 31.87 | PK | 290 | 1.1 | H | 39.09 | 70.96 | 83.5 | 12.54 | | |
| 5357.64 | 17.09 | Ave. | 290 | 1.1 | H | 39.09 | 56.18 | 63.5 | 7.32 | | |
| 10460.00 | 42.34 | PK | 186 | 1.3 | H | 17.15 | 59.49 | 77.7 | 18.21 | | |
| 802.11ac40(MIMO mode is the worst case) | | | | | | | | | | | |
| 5190 MHz | | | | | | | | | | | |
| 5143.36 | 31.56 | PK | 111 | 1.3 | H | 38.36 | 69.92 | 83.5 | 13.58 | | |
| 5143.36 | 17.21 | Ave. | 111 | 1.3 | H | 38.36 | 55.57 | 63.5 | 7.93 | | |
| 5359.74 | 31.48 | PK | 167 | 1.0 | H | 39.09 | 70.57 | 83.5 | 12.93 | | |
| 5359.74 | 17.20 | Ave. | 167 | 1.0 | H | 39.09 | 56.29 | 63.5 | 7.21 | | |
| 10380.00 | 42.17 | PK | 179 | 1.2 | H | 17.42 | 59.59 | 77.7 | 18.11 | | |
| 5230 MHz | | | | | | | | | | | |
| 5143.38 | 31.96 | PK | 201 | 1.2 | H | 38.36 | 70.32 | 83.5 | 13.18 | | |
| 5143.38 | 17.26 | Ave. | 201 | 1.2 | H | 38.36 | 55.62 | 63.5 | 7.88 | | |
| 5359.62 | 31.84 | PK | 227 | 1.5 | H | 39.09 | 70.93 | 83.5 | 12.57 | | |
| 5359.62 | 17.19 | Ave. | 227 | 1.5 | H | 39.09 | 56.28 | 63.5 | 7.22 | | |
| 10460.00 | 42.11 | PK | 88 | 2.0 | H | 17.15 | 59.26 | 77.7 | 18.44 | | |
| 802.11ac80(MIMO mode is the worst case) | | | | | | | | | | | |
| 5210MHz | | | | | | | | | | | |
| 5142.17 | 31.24 | PK | 67 | 1.6 | H | 38.36 | 69.60 | 83.5 | 13.90 | | |
| 5142.17 | 17.16 | Ave. | 67 | 1.6 | H | 38.36 | 55.52 | 63.5 | 7.98 | | |
| 5351.93 | 31.87 | PK | 179 | 2.4 | H | 39.09 | 70.96 | 83.5 | 12.54 | | |
| 5351.93 | 17.09 | Ave. | 179 | 2.4 | H | 39.09 | 56.18 | 63.5 | 7.32 | | |
| 10420.00 | 42.21 | PK | 291 | 2.3 | H | 17.52 | 59.73 | 77.7 | 17.97 | | |

| Frequency (MHz) | Receiver | | Turntable | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|-----------|------------|---------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Degree | Height (m) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ax20(MIMO mode is the worst case) | | | | | | | | | | | | |
| 5180 MHz | | | | | | | | | | | | |
| 5143.94 | 30.83 | PK | 177 | 1.9 | H | 38.36 | 69.19 | 83.5 | 14.31 | | | |
| 5143.94 | 17.11 | Ave. | 177 | 1.9 | H | 38.36 | 55.47 | 63.5 | 8.03 | | | |
| 5351.28 | 30.87 | PK | 115 | 2.0 | H | 39.09 | 69.96 | 83.5 | 13.54 | | | |
| 5351.28 | 17.1 | Ave. | 115 | 2.0 | H | 39.09 | 56.19 | 63.5 | 7.31 | | | |
| 10360.00 | 42.12 | PK | 148 | 1.9 | H | 17.42 | 59.54 | 77.7 | 18.16 | | | |
| 5200 MHz | | | | | | | | | | | | |
| 10400.00 | 42.34 | PK | 287 | 2.1 | H | 17.52 | 59.86 | 77.7 | 17.84 | | | |
| 5240 MHz | | | | | | | | | | | | |
| 5143.94 | 31.34 | PK | 64 | 1.9 | H | 38.36 | 69.70 | 83.5 | 13.80 | | | |
| 5143.94 | 17.14 | Ave. | 64 | 1.9 | H | 38.36 | 55.50 | 63.5 | 8.00 | | | |
| 5359.66 | 31.35 | PK | 34 | 1.1 | H | 39.09 | 70.44 | 83.5 | 13.06 | | | |
| 5359.66 | 17.13 | Ave. | 34 | 1.1 | H | 39.09 | 56.22 | 63.5 | 7.28 | | | |
| 10480.00 | 42.55 | PK | 96 | 2.0 | H | 17.25 | 59.80 | 77.7 | 17.90 | | | |
| 802.11ax40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5190 MHz | | | | | | | | | | | | |
| 5149.47 | 31.69 | PK | 54 | 2.3 | H | 38.36 | 70.05 | 83.5 | 13.45 | | | |
| 5149.47 | 17.14 | Ave. | 54 | 2.3 | H | 38.36 | 55.50 | 63.5 | 8.00 | | | |
| 5354.58 | 31.83 | PK | 306 | 1.1 | H | 39.09 | 70.92 | 83.5 | 12.58 | | | |
| 5354.58 | 17.16 | Ave. | 306 | 1.1 | H | 39.09 | 56.25 | 63.5 | 7.25 | | | |
| 10380.00 | 42.19 | PK | 104 | 1.2 | H | 17.42 | 59.61 | 77.7 | 18.09 | | | |
| 5230 MHz | | | | | | | | | | | | |
| 5145.64 | 31.69 | PK | 218 | 1.3 | H | 38.36 | 70.05 | 83.5 | 13.45 | | | |
| 5145.64 | 17.14 | Ave. | 218 | 1.3 | H | 38.36 | 55.50 | 63.5 | 8.00 | | | |
| 5358.91 | 31.83 | PK | 101 | 2.2 | H | 39.09 | 70.92 | 83.5 | 12.58 | | | |
| 5358.91 | 17.16 | Ave. | 101 | 2.2 | H | 39.09 | 56.25 | 63.5 | 7.25 | | | |
| 10460.00 | 42.37 | PK | 169 | 1.5 | H | 17.15 | 59.52 | 77.7 | 18.18 | | | |
| 802.11AX80 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5210MHZ | | | | | | | | | | | | |
| 5141.89 | 31.43 | PK | 255 | 1.5 | H | 38.36 | 69.79 | 83.5 | 13.71 | | | |
| 5141.89 | 17.22 | Ave. | 255 | 1.5 | H | 38.36 | 55.57 | 63.5 | 7.92 | | | |
| 5353.84 | 31.80 | PK | 61 | 1.5 | H | 39.09 | 70.89 | 83.5 | 12.61 | | | |
| 5353.84 | 17.28 | Ave. | 61 | 1.5 | H | 39.09 | 56.37 | 63.5 | 7.13 | | | |
| 10420.00 | 42.29 | PK | 303 | 2.5 | V | 17.52 | 59.81 | 77.7 | 17.89 | | | |

5250-5350 MHz:

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|---|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11a (Antenna 0 is the worst case) | | | | | | | | | | | | |
| 5260 MHz | | | | | | | | | | | | |
| 5140.98 | 31.93 | PK | 39 | 2.0 | H | 38.36 | 70.29 | 83.5 | 13.21 | | | |
| 5140.98 | 17.08 | Ave. | 39 | 2.0 | H | 38.36 | 55.44 | 63.5 | 8.06 | | | |
| 5350.82 | 31.31 | PK | 335 | 2.2 | H | 39.09 | 70.40 | 83.5 | 13.10 | | | |
| 5350.82 | 17.28 | Ave. | 335 | 2.2 | H | 39.09 | 56.37 | 63.5 | 7.13 | | | |
| 10520.00 | 42.19 | PK | 158 | 2.1 | H | 17.25 | 59.44 | 77.7 | 18.26 | | | |
| 5280 MHz | | | | | | | | | | | | |
| 10560.00 | 42.14 | PK | 100 | 1.5 | H | 17.91 | 60.05 | 77.7 | 17.65 | | | |
| 5320 MHz | | | | | | | | | | | | |
| 5144.32 | 31.22 | PK | 85 | 1.2 | H | 38.36 | 69.58 | 83.5 | 13.92 | | | |
| 5144.32 | 17.14 | Ave. | 85 | 1.2 | H | 38.36 | 55.50 | 63.5 | 8.00 | | | |
| 5350.90 | 31.13 | PK | 313 | 2.1 | H | 39.09 | 70.22 | 83.5 | 13.28 | | | |
| 5350.90 | 17.02 | Ave. | 313 | 2.1 | H | 39.09 | 56.11 | 63.5 | 7.39 | | | |
| 10640.00 | 42.36 | PK | 69 | 1.8 | H | 18.01 | 60.37 | 83.5 | 23.13 | | | |
| 10640.00 | 27.43 | Ave. | 282 | 1.8 | H | 18.01 | 45.44 | 63.5 | 18.06 | | | |
| 802.11n20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5260 MHz | | | | | | | | | | | | |
| 5142.03 | 31.03 | PK | 47 | 1.9 | H | 38.36 | 69.39 | 83.5 | 14.11 | | | |
| 5142.03 | 17.17 | Ave. | 47 | 1.9 | H | 38.36 | 55.53 | 63.5 | 7.97 | | | |
| 5350.59 | 31.68 | PK | 69 | 1.2 | H | 39.09 | 70.77 | 83.5 | 12.73 | | | |
| 5350.59 | 17.11 | Ave. | 69 | 1.2 | H | 39.09 | 56.20 | 63.5 | 7.30 | | | |
| 10520.00 | 42.01 | PK | 229 | 1.6 | H | 17.25 | 59.26 | 77.7 | 18.44 | | | |
| 5280 MHz | | | | | | | | | | | | |
| 10560.00 | 42.33 | PK | 46 | 1.6 | H | 17.91 | 60.24 | 77.7 | 17.46 | | | |
| 5320 MHz | | | | | | | | | | | | |
| 5147.56 | 31.44 | PK | 159 | 1.8 | H | 38.36 | 69.80 | 83.5 | 13.70 | | | |
| 5147.56 | 17.12 | Ave. | 159 | 1.8 | H | 38.36 | 55.48 | 63.5 | 8.02 | | | |
| 5359.08 | 31.57 | PK | 185 | 2.2 | H | 39.09 | 70.66 | 83.5 | 12.84 | | | |
| 5359.08 | 17.28 | Ave. | 185 | 2.2 | H | 39.09 | 56.37 | 63.5 | 7.13 | | | |
| 10640.00 | 42.08 | PK | 288 | 1.5 | H | 18.01 | 60.09 | 83.5 | 23.41 | | | |
| 10640.00 | 27.43 | Ave. | 288 | 1.5 | H | 18.01 | 45.44 | 63.5 | 18.06 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ac20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5260 MHz | | | | | | | | | | | | |
| 5140.42 | 31.05 | PK | 148 | 1.7 | H | 38.36 | 69.41 | 83.5 | 14.09 | | | |
| 5140.42 | 17.17 | Ave. | 148 | 1.7 | H | 38.36 | 55.53 | 63.5 | 7.97 | | | |
| 5352.07 | 31.50 | PK | 152 | 1.4 | H | 39.09 | 70.59 | 83.5 | 12.91 | | | |
| 5352.07 | 17.25 | Ave. | 152 | 1.4 | H | 39.09 | 56.34 | 63.5 | 7.16 | | | |
| 10520.00 | 42.42 | PK | 321 | 1.1 | H | 17.25 | 59.67 | 77.7 | 18.03 | | | |
| 5280 MHz | | | | | | | | | | | | |
| 10560.00 | 42.03 | PK | 242 | 1.4 | H | 17.91 | 59.94 | 77.7 | 17.76 | | | |
| 5320 MHz | | | | | | | | | | | | |
| 5149.79 | 31.66 | PK | 132 | 1.8 | H | 38.36 | 70.02 | 83.5 | 13.48 | | | |
| 5149.79 | 17.23 | Ave. | 132 | 1.8 | H | 38.36 | 55.59 | 63.5 | 7.91 | | | |
| 5350.58 | 31.71 | PK | 154 | 2.0 | H | 39.09 | 70.80 | 83.5 | 12.70 | | | |
| 5350.58 | 17.11 | Ave. | 154 | 2.0 | H | 39.09 | 56.20 | 63.5 | 7.30 | | | |
| 10640.00 | 42.34 | PK | 260 | 1.1 | H | 18.01 | 60.35 | 83.5 | 23.15 | | | |
| 10640.00 | 27.12 | Ave. | 260 | 1.1 | H | 18.01 | 45.13 | 63.5 | 18.37 | | | |
| 802.11n40(MIMO mode is the worst case) | | | | | | | | | | | | |
| 5270 MHz | | | | | | | | | | | | |
| 5143.42 | 31.59 | PK | 138 | 2.3 | H | 38.36 | 69.95 | 83.5 | 13.55 | | | |
| 5143.42 | 17.28 | Ave. | 138 | 2.3 | H | 38.36 | 55.64 | 63.5 | 7.86 | | | |
| 5353.12 | 31.80 | PK | 35 | 1.1 | H | 39.09 | 70.89 | 83.5 | 12.61 | | | |
| 5353.12 | 17.07 | Ave. | 35 | 1.1 | H | 39.09 | 56.16 | 63.5 | 7.34 | | | |
| 10540.00 | 42.08 | PK | 324 | 2.2 | H | 17.25 | 59.33 | 77.7 | 18.37 | | | |
| 5310 MHz | | | | | | | | | | | | |
| 5145.85 | 31.91 | PK | 24 | 1.1 | H | 38.36 | 70.27 | 83.5 | 13.23 | | | |
| 5145.85 | 17.13 | Ave. | 24 | 1.1 | H | 38.36 | 55.49 | 63.5 | 8.01 | | | |
| 5356.50 | 31.55 | PK | 71 | 1.3 | H | 39.09 | 70.64 | 83.5 | 12.86 | | | |
| 5356.50 | 17.14 | Ave. | 71 | 1.3 | H | 39.09 | 56.23 | 63.5 | 7.27 | | | |
| 10620.00 | 42.05 | PK | 154 | 1.2 | H | 18.01 | 60.06 | 83.5 | 23.44 | | | |
| 10620.00 | 27.31 | Ave. | 154 | 1.2 | H | 18.01 | 45.32 | 63.5 | 18.18 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|---|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ac40(MIMO mode is the worst case) | | | | | | | | | | | | |
| 5270 MHz | | | | | | | | | | | | |
| 5140.76 | 31.15 | PK | 23 | 1.5 | H | 38.36 | 69.51 | 83.5 | 13.99 | | | |
| 5140.76 | 17.11 | Ave. | 23 | 1.5 | H | 38.36 | 55.47 | 63.5 | 8.03 | | | |
| 5352.91 | 31.86 | PK | 331 | 2.2 | H | 39.09 | 70.95 | 83.5 | 12.55 | | | |
| 5352.91 | 17.21 | Ave. | 331 | 2.2 | H | 39.09 | 56.30 | 63.5 | 7.20 | | | |
| 10540.00 | 42.39 | PK | 150 | 2.1 | V | 17.25 | 59.64 | 77.7 | 18.06 | | | |
| 5310 MHz | | | | | | | | | | | | |
| 5147.05 | 31.62 | PK | 138 | 1.6 | H | 38.36 | 69.98 | 83.5 | 13.52 | | | |
| 5147.05 | 17.20 | Ave. | 138 | 1.6 | H | 38.36 | 55.56 | 63.5 | 7.94 | | | |
| 5354.55 | 31.62 | PK | 72 | 2.3 | H | 39.09 | 70.71 | 83.5 | 12.79 | | | |
| 5354.55 | 17.10 | Ave. | 72 | 2.3 | H | 39.09 | 56.19 | 63.5 | 7.31 | | | |
| 10620.00 | 42.24 | PK | 242 | 2.2 | H | 18.01 | 60.25 | 83.5 | 23.25 | | | |
| 10620.00 | 27.24 | Ave. | 242 | 2.2 | H | 18.01 | 45.25 | 63.5 | 18.25 | | | |
| 802.11ac80(MIMO mode is the worst case) | | | | | | | | | | | | |
| 5290MHz | | | | | | | | | | | | |
| 5142.07 | 31.04 | PK | 18 | 1.5 | H | 38.36 | 69.40 | 83.5 | 14.10 | | | |
| 5142.07 | 17.18 | Ave. | 18 | 1.5 | H | 38.36 | 55.54 | 63.5 | 7.96 | | | |
| 5358.91 | 31.70 | PK | 171 | 1.1 | H | 39.09 | 70.79 | 83.5 | 12.71 | | | |
| 5358.91 | 17.02 | Ave. | 171 | 1.1 | H | 39.09 | 56.11 | 63.5 | 7.39 | | | |
| 10580.00 | 42.12 | PK | 193 | 1.3 | H | 17.91 | 60.03 | 77.7 | 17.67 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ax20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5260 MHz | | | | | | | | | | | | |
| 5140.79 | 31.39 | PK | 6 | 1.7 | H | 38.36 | 69.75 | 83.5 | 13.75 | | | |
| 5140.79 | 17.04 | Ave. | 6 | 1.7 | H | 38.36 | 55.40 | 63.5 | 8.10 | | | |
| 5357.32 | 31.14 | PK | 273 | 1.0 | H | 39.09 | 70.23 | 83.5 | 13.27 | | | |
| 5357.32 | 17.26 | Ave. | 273 | 1.0 | H | 39.09 | 56.35 | 63.5 | 7.15 | | | |
| 10520.00 | 42.02 | PK | 34 | 1.4 | H | 17.25 | 59.27 | 77.7 | 18.43 | | | |
| 5280 MHz | | | | | | | | | | | | |
| 10560.00 | 42.47 | PK | 219 | 1.6 | H | 17.91 | 60.38 | 77.7 | 17.32 | | | |
| 5320 MHz | | | | | | | | | | | | |
| 5145.71 | 31.46 | PK | 239 | 1.5 | H | 38.36 | 69.82 | 83.5 | 13.68 | | | |
| 5145.71 | 17.19 | Ave. | 239 | 1.5 | H | 38.36 | 55.55 | 63.5 | 7.95 | | | |
| 5353.95 | 31.02 | PK | 43 | 2.4 | H | 39.09 | 70.11 | 83.5 | 13.39 | | | |
| 5353.95 | 17.26 | Ave. | 43 | 2.4 | H | 39.09 | 56.35 | 63.5 | 7.15 | | | |
| 10640.00 | 42.36 | PK | 40 | 2.1 | H | 18.01 | 60.37 | 83.5 | 23.13 | | | |
| 10640.00 | 27.33 | Ave. | 40 | 2.1 | H | 18.01 | 45.34 | 63.5 | 18.16 | | | |
| 802.11x40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5270 MHz | | | | | | | | | | | | |
| 5148.51 | 31.81 | PK | 42 | 2.0 | H | 38.36 | 70.17 | 83.5 | 13.33 | | | |
| 5148.51 | 17.10 | Ave. | 42 | 2.0 | H | 38.36 | 55.46 | 63.5 | 8.04 | | | |
| 5357.97 | 31.17 | PK | 104 | 1.6 | H | 39.09 | 70.26 | 83.5 | 13.24 | | | |
| 5357.97 | 17.27 | Ave. | 104 | 1.6 | H | 39.09 | 56.36 | 63.5 | 7.14 | | | |
| 10540.00 | 42.41 | PK | 62 | 1.1 | H | 17.25 | 59.66 | 77.7 | 18.04 | | | |
| 5310 MHz | | | | | | | | | | | | |
| 5140.99 | 31.37 | PK | 192 | 1.6 | H | 38.36 | 69.73 | 83.5 | 13.77 | | | |
| 5140.99 | 17.00 | Ave. | 192 | 1.6 | H | 38.36 | 55.36 | 63.5 | 8.14 | | | |
| 5358.60 | 31.55 | PK | 237 | 1.1 | H | 39.09 | 70.64 | 83.5 | 12.86 | | | |
| 5358.60 | 17.27 | Ave. | 237 | 1.1 | H | 39.09 | 56.36 | 63.5 | 7.14 | | | |
| 10620.00 | 42.03 | PK | 98 | 1.1 | H | 18.01 | 60.04 | 83.5 | 23.46 | | | |
| 10620.00 | 27.17 | Ave. | 98 | 1.1 | H | 18.01 | 45.18 | 63.5 | 18.32 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ax80 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5290MHz | | | | | | | | | | | | |
| 5144.27 | 31.84 | PK | 48 | 2.2 | H | 38.36 | 70.20 | 83.5 | 13.30 | | | |
| 5144.27 | 17.14 | Ave. | 48 | 2.2 | H | 38.36 | 55.50 | 63.5 | 8.00 | | | |
| 5358.95 | 31.61 | PK | 206 | 1.5 | H | 39.09 | 70.70 | 83.5 | 12.80 | | | |
| 5358.95 | 17.19 | Ave. | 206 | 1.5 | H | 39.09 | 56.28 | 63.5 | 7.22 | | | |
| 10580.00 | 42.47 | PK | 333 | 1.7 | H | 17.91 | 60.38 | 77.7 | 17.32 | | | |

5470-5725MHz:

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|---|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11a(Antenna 0 is the worst case) | | | | | | | | | | | | |
| 5500 MHz | | | | | | | | | | | | |
| 5462.26 | 32.13 | PK | 100 | 1.2 | H | 39.37 | 71.50 | 77.7 | 6.20 | | | |
| 5729.75 | 32.42 | PK | 338 | 1.1 | H | 39.49 | 71.91 | 77.7 | 5.79 | | | |
| 11000.00 | 42.07 | PK | 23 | 2.2 | H | 17.66 | 59.73 | 83.5 | 23.77 | | | |
| 11000.00 | 28.24 | Ave. | 23 | 2.2 | H | 17.66 | 45.90 | 63.5 | 17.60 | | | |
| 5600 MHZ | | | | | | | | | | | | |
| 11200.00 | 42.03 | PK | 253 | 1.9 | H | 17.39 | 59.42 | 83.5 | 24.08 | | | |
| 11200.00 | 28.04 | Ave. | 253 | 1.9 | H | 17.39 | 45.43 | 63.5 | 18.07 | | | |
| 5720MHz | | | | | | | | | | | | |
| 5463.49 | 32.67 | PK | 4 | 1.0 | H | 39.37 | 72.04 | 77.7 | 5.66 | | | |
| 5853.26 | 32.92 | PK | 177 | 1.3 | H | 39.87 | 72.79 | 77.7 | 4.91 | | | |
| 11440.00 | 42.17 | PK | 147 | 2.4 | H | 17.73 | 59.90 | 83.5 | 23.60 | | | |
| 11440.00 | 28.18 | Ave. | 147 | 2.4 | H | 17.73 | 45.91 | 63.5 | 17.59 | | | |
| 802.11n20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5500 MHz | | | | | | | | | | | | |
| 5468.30 | 32.98 | PK | 300 | 2.3 | H | 39.37 | 72.35 | 77.7 | 5.35 | | | |
| 5727.56 | 32.03 | PK | 42 | 1.5 | H | 39.49 | 71.52 | 77.7 | 6.18 | | | |
| 11000.00 | 41.52 | PK | 163 | 1.2 | H | 17.66 | 59.18 | 83.5 | 24.32 | | | |
| 11000.00 | 27.83 | Ave. | 163 | 1.2 | H | 17.66 | 45.49 | 63.5 | 18.01 | | | |
| 5600 MHZ | | | | | | | | | | | | |
| 11200.00 | 41.98 | PK | 156 | 2.2 | H | 17.39 | 59.37 | 83.5 | 24.13 | | | |
| 11200.00 | 27.82 | Ave. | 156 | 2.2 | H | 17.39 | 45.21 | 63.5 | 18.29 | | | |
| 5720MHz | | | | | | | | | | | | |
| 5469.04 | 32.76 | PK | 249 | 1.0 | H | 39.37 | 72.13 | 77.7 | 5.57 | | | |
| 5852.46 | 32.84 | PK | 172 | 2.4 | H | 39.87 | 72.71 | 77.7 | 4.99 | | | |
| 11440.00 | 41.80 | PK | 182 | 1.3 | H | 17.73 | 59.53 | 83.5 | 23.97 | | | |
| 11440.00 | 27.78 | Ave. | 182 | 1.3 | H | 17.73 | 45.51 | 63.5 | 17.99 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11ac20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5500 MHz | | | | | | | | | | | | |
| 5465.20 | 32.16 | PK | 90 | 2.3 | H | 39.37 | 71.53 | 77.7 | 6.17 | | | |
| 5730.39 | 32.78 | PK | 78 | 2.2 | H | 39.49 | 72.27 | 77.7 | 5.43 | | | |
| 11000.00 | 41.98 | PK | 112 | 1.3 | H | 17.66 | 59.64 | 83.5 | 23.86 | | | |
| 11000.00 | 27.63 | Ave. | 112 | 1.3 | H | 17.66 | 45.29 | 63.5 | 18.21 | | | |
| 5600 MHz | | | | | | | | | | | | |
| 11200.00 | 42.19 | PK | 169 | 2.3 | H | 17.39 | 59.58 | 83.5 | 23.92 | | | |
| 11200.00 | 28.42 | Ave. | 169 | 2.3 | H | 17.39 | 45.81 | 63.5 | 17.69 | | | |
| 5720 MHz | | | | | | | | | | | | |
| 5464.70 | 32.38 | PK | 259 | 2.3 | H | 39.37 | 71.75 | 77.7 | 5.95 | | | |
| 5852.34 | 32.04 | PK | 100 | 1.5 | H | 39.87 | 71.91 | 77.7 | 5.79 | | | |
| 11440.00 | 42.22 | PK | 241 | 1.9 | H | 17.73 | 59.95 | 83.5 | 23.55 | | | |
| 11440.00 | 28.07 | Ave. | 241 | 1.9 | H | 17.73 | 45.80 | 63.5 | 17.70 | | | |
| 802.11N40(MIMO mode is the worst case) | | | | | | | | | | | | |
| 5510 MHZ | | | | | | | | | | | | |
| 5468.94 | 32.22 | PK | 181 | 1.5 | H | 39.37 | 71.59 | 77.7 | 6.11 | | | |
| 5758.50 | 32.74 | PK | 227 | 2.0 | H | 39.61 | 72.35 | 77.7 | 5.35 | | | |
| 11020.00 | 41.75 | PK | 134 | 1.9 | H | 17.66 | 59.41 | 83.5 | 24.09 | | | |
| 11020.00 | 27.65 | Ave. | 134 | 1.9 | H | 17.66 | 45.31 | 63.5 | 18.19 | | | |
| 11020.00 | 26.47 | Ave. | 11 | 1.0 | H | 17.66 | 44.13 | 63.5 | 19.37 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) |
| 5550 MHZ | | | | | | | | | |
| 11100.00 | 41.77 | PK | 6 | 2.0 | H | 16.72 | 58.49 | 83.5 | 25.01 |
| 11100.00 | 28.08 | Ave. | 6 | 2.0 | H | 16.72 | 44.80 | 63.5 | 18.70 |
| 5710 MHZ | | | | | | | | | |
| 5466.53 | 32.41 | PK | 308 | 1.8 | H | 39.37 | 71.78 | 77.7 | 5.92 |
| 5851.36 | 32.44 | PK | 355 | 1.2 | H | 39.87 | 72.31 | 77.7 | 5.39 |
| 11420.00 | 41.84 | PK | 51 | 1.6 | H | 17.73 | 59.57 | 83.5 | 23.93 |
| 11420.00 | 27.85 | Ave. | 51 | 1.6 | H | 17.73 | 45.58 | 63.5 | 17.92 |
| 802.11AC40 (MIMO mode is the worst case) | | | | | | | | | |
| 5510 MHz | | | | | | | | | |
| 5463.12 | 32.73 | PK | 49 | 2.3 | H | 39.37 | 72.10 | 77.7 | 5.60 |
| 5852.51 | 32.55 | PK | 338 | 1.1 | H | 39.87 | 72.42 | 77.7 | 5.28 |
| 11020.00 | 42.13 | PK | 29 | 1.9 | H | 17.66 | 59.79 | 83.5 | 23.71 |
| 11020.00 | 28.18 | Ave. | 29 | 1.9 | H | 17.66 | 45.84 | 63.5 | 17.66 |
| 5550MHz | | | | | | | | | |
| 11100.00 | 41.94 | PK | 334 | 2.3 | H | 16.72 | 58.66 | 83.5 | 24.84 |
| 11100.00 | 27.70 | Ave. | 334 | 2.3 | H | 16.72 | 44.42 | 63.5 | 19.08 |
| 5710 MHZ | | | | | | | | | |
| 5468.89 | 32.48 | PK | 343 | 1.2 | H | 39.37 | 71.85 | 77.7 | 5.85 |
| 5848.51 | 32.55 | Ave. | 159 | 2.0 | H | 39.61 | 72.16 | 77.7 | 5.54 |
| 11420.00 | 41.70 | PK | 282 | 1.1 | H | 17.73 | 59.43 | 83.5 | 24.07 |
| 11420.00 | 27.98 | Ave. | 282 | 1.1 | H | 17.73 | 45.71 | 63.5 | 17.79 |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AC80 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5530 MHZ | | | | | | | | | | | | |
| 5466.05 | 32.69 | PK | 132 | 2.3 | H | 39.37 | 72.06 | 77.7 | 5.64 | | | |
| 5733.97 | 32.51 | PK | 263 | 1.8 | H | 39.49 | 72.00 | 77.7 | 5.70 | | | |
| 11060.00 | 41.94 | PK | 287 | 1.3 | H | 16.72 | 58.66 | 83.5 | 24.84 | | | |
| 11060.00 | 28.01 | Ave. | 287 | 1.3 | H | 16.72 | 44.73 | 63.5 | 18.77 | | | |
| 5610 MHZ | | | | | | | | | | | | |
| 11220.00 | 41.76 | PK | 316 | 1.5 | H | 17.39 | 59.15 | 83.5 | 24.35 | | | |
| 11220.00 | 27.66 | Ave. | 316 | 1.5 | H | 17.39 | 45.05 | 63.5 | 18.45 | | | |
| 5690 MHZ | | | | | | | | | | | | |
| 5466.52 | 32.32 | PK | 170 | 2.1 | H | 39.37 | 71.69 | 77.7 | 6.01 | | | |
| 5854.88 | 32.52 | PK | 50 | 2.4 | H | 39.87 | 72.39 | 77.7 | 5.31 | | | |
| 11380.00 | 41.82 | PK | 288 | 2.5 | H | 17.73 | 59.55 | 83.5 | 23.95 | | | |
| 11380.00 | 27.79 | Ave. | 288 | 2.5 | H | 17.73 | 45.52 | 63.5 | 17.98 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AX20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5500 MHz | | | | | | | | | | | | |
| 5466.34 | 32.20 | PK | 166 | 1.2 | H | 39.37 | 71.57 | 77.7 | 6.13 | | | |
| 5728.62 | 32.64 | PK | 240 | 2.0 | H | 39.49 | 72.13 | 77.7 | 5.57 | | | |
| 11000.00 | 41.58 | PK | 72 | 2.3 | H | 17.66 | 59.24 | 83.5 | 24.26 | | | |
| 11000.00 | 27.75 | Ave. | 72 | 2.3 | H | 17.66 | 45.41 | 63.5 | 18.09 | | | |
| 5600 MHz | | | | | | | | | | | | |
| 11200.00 | 41.75 | PK | 311 | 1.2 | H | 17.39 | 59.14 | 83.5 | 24.36 | | | |
| 11200.00 | 27.77 | Ave. | 311 | 1.2 | H | 17.39 | 45.16 | 63.5 | 18.34 | | | |
| 5720 MHZ | | | | | | | | | | | | |
| 5466.12 | 32.04 | PK | 320 | 1.9 | H | 39.37 | 71.41 | 77.7 | 6.29 | | | |
| 5851.83 | 32.53 | PK | 114 | 2.1 | H | 39.87 | 72.40 | 77.7 | 5.30 | | | |
| 11440.00 | 41.92 | PK | 73 | 1.0 | H | 17.73 | 59.65 | 83.5 | 23.85 | | | |
| 11440.00 | 27.86 | Ave. | 73 | 1.0 | H | 17.73 | 45.59 | 63.5 | 17.91 | | | |
| 802.11AX40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5510 MHZ | | | | | | | | | | | | |
| 5463.98 | 32.34 | PK | 84 | 2.0 | H | 39.37 | 71.71 | 77.7 | 5.99 | | | |
| 5757.57 | 32.99 | PK | 287 | 1.9 | H | 39.61 | 72.60 | 77.7 | 5.10 | | | |
| 11020.00 | 41.95 | PK | 83 | 1.3 | H | 17.66 | 59.61 | 83.5 | 23.89 | | | |
| 11020.00 | 28.01 | Ave. | 83 | 1.3 | H | 17.66 | 45.67 | 63.5 | 17.83 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) |
| 5550 MHZ | | | | | | | | | |
| 11100.00 | 41.99 | PK | 282 | 1.9 | H | 16.72 | 58.71 | 83.5 | 24.79 |
| 11100.00 | 27.82 | Ave. | 282 | 1.9 | H | 16.72 | 44.54 | 63.5 | 18.96 |
| 5710 MHZ | | | | | | | | | |
| 5462.83 | 32.14 | PK | 231 | 2.3 | H | 39.37 | 71.51 | 77.7 | 6.19 |
| 5855.49 | 32.30 | PK | 61 | 1.3 | H | 39.87 | 72.17 | 77.7 | 5.53 |
| 11420.00 | 41.79 | PK | 77 | 1.4 | H | 17.73 | 59.52 | 83.5 | 23.98 |
| 11420.00 | 28.03 | Ave. | 77 | 1.4 | H | 17.73 | 45.76 | 63.5 | 17.74 |
| 802.11AX80 (MIMO mode is the worst case) | | | | | | | | | |
| 5530 MHZ | | | | | | | | | |
| 5462.07 | 32.69 | PK | 212 | 1.4 | H | 39.37 | 72.06 | 77.7 | 5.64 |
| 5728.17 | 32.94 | PK | 217 | 2.2 | H | 39.49 | 72.43 | 77.7 | 5.27 |
| 11060.00 | 41.54 | PK | 265 | 2.4 | H | 16.72 | 58.26 | 83.5 | 25.24 |
| 11060.00 | 27.79 | Ave. | 265 | 2.4 | H | 16.72 | 44.51 | 63.5 | 18.99 |
| 5610 MHZ | | | | | | | | | |
| 11220.00 | 41.61 | PK | 119 | 1.6 | H | 17.39 | 59.00 | 83.5 | 24.50 |
| 11220.00 | 27.66 | Ave. | 119 | 1.6 | H | 17.39 | 45.05 | 63.5 | 18.45 |
| 5690 MHZ | | | | | | | | | |
| 5463.01 | 32.51 | PK | 33 | 1.3 | H | 39.37 | 71.88 | 77.7 | 5.82 |
| 5853.55 | 32.72 | PK | 93 | 1.8 | H | 39.87 | 72.59 | 77.7 | 5.11 |
| 11380.00 | 41.48 | PK | 215 | 2.4 | H | 17.73 | 59.21 | 83.5 | 24.29 |
| 11380.00 | 27.39 | Ave. | 215 | 2.4 | H | 17.73 | 45.12 | 63.5 | 18.38 |

5725-5850 MHz:

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|---|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11A (Antenna 0 is the worst case) | | | | | | | | | | | | |
| 5745 MHZ | | | | | | | | | | | | |
| 5649.39 | 30.62 | PK | 81 | 1.5 | H | 39.46 | 70.08 | 77.7 | 7.62 | | | |
| 5696.02 | 32.23 | PK | 300 | 2.2 | H | 39.49 | 71.72 | 111.76 | 40.04 | | | |
| 5711.33 | 33.20 | PK | 163 | 1.3 | H | 39.49 | 72.69 | 117.87 | 45.18 | | | |
| 5724.84 | 33.06 | PK | 359 | 1.8 | H | 39.49 | 72.55 | 131.33 | 58.78 | | | |
| 11490.00 | 43.89 | PK | 232 | 2.3 | H | 17.47 | 61.36 | 83.5 | 22.14 | | | |
| 11490.00 | 28.27 | Ave. | 232 | 2.3 | H | 17.47 | 45.74 | 63.5 | 17.76 | | | |
| 5785 MHZ | | | | | | | | | | | | |
| 11570.00 | 44.13 | PK | 202 | 1.2 | H | 17.51 | 61.64 | 83.5 | 21.86 | | | |
| 11570.00 | 28.35 | Ave. | 202 | 1.2 | H | 17.51 | 45.86 | 63.5 | 17.64 | | | |
| 5825 MHz | | | | | | | | | | | | |
| 5853.26 | 32.67 | PK | 203 | 1.6 | H | 39.87 | 72.54 | 124.27 | 51.73 | | | |
| 5864.70 | 33.32 | PK | 293 | 2.3 | H | 39.87 | 73.19 | 117.58 | 44.39 | | | |
| 5875.98 | 33.31 | PK | 116 | 1.7 | H | 39.87 | 73.18 | 113.97 | 40.79 | | | |
| 5924.58 | 32.79 | PK | 26 | 2.2 | H | 39.97 | 72.76 | 77.7 | 4.94 | | | |
| 11650.00 | 43.92 | PK | 275 | 1.2 | H | 16.18 | 60.10 | 83.5 | 23.40 | | | |
| 11650.00 | 28.41 | Ave. | 275 | 1.2 | H | 16.18 | 44.59 | 63.5 | 18.91 | | | |
| 802.11n20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5745 MHZ | | | | | | | | | | | | |
| 5649.86 | 31.25 | PK | 253 | 1.5 | H | 39.46 | 70.71 | 77.7 | 6.99 | | | |
| 5695.41 | 32.62 | PK | 69 | 2.0 | H | 39.49 | 72.11 | 111.3 | 39.19 | | | |
| 5717.13 | 33.43 | PK | 212 | 2.1 | H | 39.49 | 72.92 | 119.5 | 46.58 | | | |
| 5724.90 | 33.15 | PK | 156 | 1.0 | H | 39.49 | 72.64 | 131.48 | 58.84 | | | |
| 11490.00 | 43.62 | PK | 101 | 1.5 | H | 17.47 | 61.09 | 83.5 | 22.41 | | | |
| 11490.00 | 28.74 | Ave. | 101 | 1.5 | H | 17.47 | 46.21 | 63.5 | 17.29 | | | |
| 5785 MHZ | | | | | | | | | | | | |
| 11570.00 | 43.88 | PK | 13 | 2.2 | H | 17.51 | 61.39 | 83.5 | 22.11 | | | |
| 11570.00 | 28.94 | Ave. | 13 | 2.2 | H | 17.51 | 46.45 | 63.5 | 17.05 | | | |
| 5825 MHZ | | | | | | | | | | | | |
| 5853.34 | 34.47 | PK | 69 | 1.2 | H | 39.87 | 74.34 | 124.08 | 49.74 | | | |
| 5855.01 | 33.48 | PK | 77 | 1.3 | H | 39.87 | 73.35 | 120.3 | 46.95 | | | |
| 5882.14 | 33.54 | PK | 229 | 2.0 | H | 39.87 | 73.41 | 109.42 | 36.01 | | | |
| 5926.47 | 33.21 | PK | 194 | 1.5 | H | 39.97 | 73.18 | 77.7 | 4.52 | | | |
| 11650.00 | 43.67 | PK | 247 | 1.0 | H | 16.18 | 59.85 | 83.5 | 23.65 | | | |
| 11650.00 | 28.79 | Ave. | 247 | 1.0 | H | 16.18 | 44.97 | 63.5 | 18.53 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AC20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5745 MHZ | | | | | | | | | | | | |
| 5649.30 | 31.14 | PK | 56 | 1.2 | H | 39.46 | 70.60 | 77.7 | 7.10 | | | |
| 5696.77 | 32.67 | PK | 263 | 2.4 | H | 39.49 | 72.16 | 112.31 | 40.15 | | | |
| 5712.41 | 33.38 | PK | 243 | 1.6 | H | 39.49 | 72.87 | 118.17 | 45.30 | | | |
| 5723.67 | 33.26 | PK | 0 | 1.8 | H | 39.49 | 72.75 | 128.67 | 55.92 | | | |
| 11490.00 | 43.61 | PK | 186 | 2.0 | H | 17.47 | 61.08 | 83.5 | 22.42 | | | |
| 11490.00 | 28.87 | Ave. | 186 | 2.0 | H | 17.47 | 46.34 | 63.5 | 17.16 | | | |
| 5785 MHZ | | | | | | | | | | | | |
| 11570.00 | 43.68 | PK | 261 | 1.2 | H | 17.51 | 61.19 | 83.5 | 22.31 | | | |
| 11570.00 | 28.92 | Ave. | 261 | 1.2 | H | 17.51 | 46.43 | 63.5 | 17.07 | | | |
| 5825 MHz | | | | | | | | | | | | |
| 5852.90 | 32.64 | PK | 255 | 1.1 | H | 39.87 | 72.51 | 125.1 | 52.59 | | | |
| 5857.44 | 33.61 | PK | 55 | 2.3 | H | 39.87 | 73.48 | 119.62 | 46.14 | | | |
| 5881.91 | 33.45 | PK | 332 | 1.0 | H | 39.87 | 73.32 | 109.59 | 36.27 | | | |
| 5930.50 | 32.41 | PK | 210 | 1.1 | H | 39.97 | 72.38 | 77.7 | 5.32 | | | |
| 11650.00 | 43.79 | PK | 302 | 2.2 | H | 16.18 | 59.97 | 83.5 | 23.53 | | | |
| 11650.00 | 29.03 | Ave. | 302 | 2.2 | H | 16.18 | 45.21 | 63.5 | 18.29 | | | |
| 802.11N40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5755 MHz | | | | | | | | | | | | |
| 5646.11 | 31.48 | PK | 12 | 1.6 | H | 39.46 | 70.94 | 77.7 | 6.76 | | | |
| 5699.47 | 32.57 | PK | 64 | 2.2 | H | 39.49 | 72.06 | 114.31 | 42.25 | | | |
| 5706.52 | 33.32 | PK | 101 | 1.0 | H | 39.49 | 72.81 | 116.53 | 43.72 | | | |
| 5722.82 | 33.19 | PK | 97 | 1.3 | H | 39.49 | 72.68 | 126.73 | 54.05 | | | |
| 11510.00 | 43.56 | PK | 107 | 1.9 | H | 17.47 | 61.03 | 83.5 | 22.47 | | | |
| 11510.00 | 29.04 | Ave. | 107 | 1.9 | H | 17.47 | 46.51 | 63.5 | 16.99 | | | |
| 5795 MHz | | | | | | | | | | | | |
| 5854.62 | 32.42 | PK | 195 | 1.8 | H | 39.87 | 72.29 | 121.17 | 48.88 | | | |
| 5855.54 | 33.64 | PK | 161 | 1.4 | H | 39.87 | 73.51 | 120.15 | 46.64 | | | |
| 5884.13 | 33.39 | PK | 80 | 1.0 | H | 39.87 | 73.26 | 107.94 | 34.68 | | | |
| 5937.11 | 32.49 | PK | 63 | 1.7 | H | 39.97 | 72.46 | 77.7 | 5.24 | | | |
| 11590.00 | 43.82 | PK | 228 | 1.0 | H | 17.51 | 61.33 | 83.5 | 22.17 | | | |
| 11590.00 | 29.23 | Ave. | 228 | 1.0 | H | 17.51 | 46.74 | 63.5 | 16.76 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AC40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5755 MHZ | | | | | | | | | | | | |
| 5644.98 | 31.62 | PK | 324 | 2.5 | H | 39.46 | 71.08 | 77.7 | 6.62 | | | |
| 5698.05 | 32.85 | PK | 312 | 1.5 | H | 39.49 | 72.34 | 113.26 | 40.92 | | | |
| 5703.35 | 33.49 | PK | 346 | 2.1 | H | 39.49 | 72.98 | 115.64 | 42.66 | | | |
| 5724.96 | 33.33 | PK | 232 | 2.1 | H | 39.49 | 72.82 | 131.61 | 58.79 | | | |
| 11510.00 | 43.81 | PK | 252 | 2.4 | H | 17.47 | 61.28 | 83.5 | 22.22 | | | |
| 11510.00 | 29.24 | Ave. | 252 | 2.4 | H | 17.47 | 46.71 | 63.5 | 16.79 | | | |
| 5795 MHZ | | | | | | | | | | | | |
| 5854.41 | 33.16 | PK | 266 | 2.2 | H | 39.87 | 73.03 | 121.63 | 48.60 | | | |
| 5864.67 | 33.84 | PK | 53 | 1.2 | H | 39.87 | 73.71 | 117.59 | 43.88 | | | |
| 5884.98 | 33.51 | PK | 123 | 2.2 | H | 39.87 | 73.38 | 107.32 | 33.94 | | | |
| 5928.00 | 32.16 | PK | 139 | 2.1 | H | 39.97 | 72.13 | 77.7 | 5.57 | | | |
| 11590.00 | 43.74 | PK | 298 | 2.0 | H | 17.51 | 61.25 | 83.5 | 22.25 | | | |
| 11590.00 | 29.17 | Ave. | 298 | 2.0 | H | 17.51 | 46.68 | 63.5 | 16.82 | | | |
| 802.11AC80 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5775 MHZ | | | | | | | | | | | | |
| 5645.59 | 31.55 | PK | 277 | 1.3 | H | 39.46 | 71.01 | 77.7 | 6.69 | | | |
| 5696.35 | 32.81 | PK | 88 | 2.3 | H | 39.49 | 72.30 | 112 | 39.70 | | | |
| 5711.18 | 33.56 | PK | 329 | 2.0 | H | 39.49 | 73.05 | 117.83 | 44.78 | | | |
| 5722.54 | 33.27 | PK | 74 | 1.7 | H | 39.49 | 72.76 | 126.09 | 53.33 | | | |
| 5853.34 | 33.05 | PK | 209 | 2.0 | H | 39.87 | 72.92 | 124.08 | 51.16 | | | |
| 5861.66 | 33.75 | PK | 60 | 1.7 | H | 39.87 | 73.62 | 118.44 | 44.82 | | | |
| 5878.64 | 33.54 | PK | 293 | 2.4 | H | 39.87 | 73.41 | 112 | 38.59 | | | |
| 5938.64 | 32.03 | PK | 25 | 2.3 | H | 39.97 | 72.00 | 77.7 | 5.70 | | | |
| 11550.00 | 43.83 | PK | 166 | 1.4 | H | 17.51 | 61.34 | 83.5 | 22.16 | | | |
| 11550.00 | 29.04 | Ave. | 166 | 1.4 | H | 17.51 | 46.55 | 63.5 | 16.95 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AX20 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5745 MHZ | | | | | | | | | | | | |
| 5646.32 | 31.42 | PK | 323 | 2.2 | H | 39.46 | 70.88 | 77.7 | 6.82 | | | |
| 5697.59 | 32.89 | PK | 130 | 2.1 | H | 39.49 | 72.38 | 112.92 | 40.54 | | | |
| 5719.22 | 33.72 | PK | 108 | 1.3 | H | 39.49 | 73.21 | 120.08 | 46.87 | | | |
| 5722.21 | 33.34 | PK | 316 | 2.1 | H | 39.49 | 72.83 | 125.34 | 52.51 | | | |
| 11490.00 | 44.02 | PK | 279 | 2.0 | H | 17.47 | 61.49 | 83.5 | 22.01 | | | |
| 11490.00 | 29.31 | Ave. | 279 | 2.0 | H | 17.47 | 46.78 | 63.5 | 16.72 | | | |
| 5785 MHZ | | | | | | | | | | | | |
| 11570.00 | 43.89 | PK | 288 | 1.1 | H | 17.51 | 61.40 | 83.5 | 22.10 | | | |
| 11570.00 | 29.24 | Ave. | 288 | 1.1 | H | 17.51 | 46.75 | 63.5 | 16.75 | | | |
| 5825 MHZ | | | | | | | | | | | | |
| 5854.80 | 33.41 | PK | 238 | 2.0 | H | 39.87 | 73.28 | 120.75 | 47.47 | | | |
| 5859.33 | 33.82 | PK | 56 | 1.7 | H | 39.87 | 73.69 | 119.09 | 45.40 | | | |
| 5880.23 | 33.56 | PK | 234 | 2.1 | H | 39.87 | 73.43 | 110.83 | 37.40 | | | |
| 5927.47 | 31.86 | PK | 69 | 2.0 | H | 39.97 | 71.83 | 77.7 | 5.87 | | | |
| 11650.00 | 43.85 | PK | 175 | 2.1 | H | 16.18 | 60.03 | 83.5 | 23.47 | | | |
| 11650.00 | 29.21 | Ave. | 175 | 2.1 | H | 16.18 | 45.39 | 63.5 | 18.11 | | | |
| 802.11AX40 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5755 MHZ | | | | | | | | | | | | |
| 5644.98 | 31.62 | PK | 324 | 2.5 | H | 39.46 | 71.08 | 77.7 | 6.62 | | | |
| 5698.05 | 32.85 | PK | 312 | 1.5 | H | 39.49 | 72.34 | 113.26 | 40.92 | | | |
| 5703.35 | 33.49 | PK | 346 | 2.1 | H | 39.49 | 72.98 | 115.64 | 42.66 | | | |
| 5724.96 | 33.33 | PK | 232 | 2.1 | H | 39.49 | 72.82 | 131.61 | 58.79 | | | |
| 11510.00 | 43.57 | PK | 174 | 1.1 | H | 17.47 | 61.04 | 83.5 | 22.46 | | | |
| 11510.00 | 29.13 | Ave. | 174 | 1.1 | H | 17.47 | 46.60 | 63.5 | 16.90 | | | |
| 5795 MHZ | | | | | | | | | | | | |
| 5854.41 | 33.16 | PK | 266 | 2.2 | H | 39.87 | 73.03 | 121.63 | 48.60 | | | |
| 5864.67 | 33.84 | PK | 53 | 1.2 | H | 39.87 | 73.71 | 117.59 | 43.88 | | | |
| 5884.98 | 33.51 | PK | 123 | 2.2 | H | 39.87 | 73.38 | 107.32 | 33.94 | | | |
| 5928.00 | 32.16 | PK | 139 | 2.1 | H | 39.97 | 72.13 | 77.7 | 5.57 | | | |
| 11590.00 | 43.66 | PK | 182 | 2.2 | H | 17.51 | 61.17 | 83.5 | 22.33 | | | |
| 11590.00 | 29.15 | Ave. | 182 | 2.2 | H | 17.51 | 46.66 | 63.5 | 16.84 | | | |

| Frequency (MHz) | Receiver | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dB μ V/m) | FCC Part 15.407/205/209 | | | | |
|--|-------------------------|------------|---------------------|---------------|----------------|-------------------------------|--|----------------------------|----------------|--|--|--|
| | Reading (dB μ V) | PK/QP/Ave. | | Height (m) | Polar (H/V) | | | Limit (dB μ V/m) | Margin (dB) | | | |
| 802.11AX80 (MIMO mode is the worst case) | | | | | | | | | | | | |
| 5775 MHZ | | | | | | | | | | | | |
| 5646.72 | 31.37 | PK | 344 | 2.3 | H | 39.46 | 70.83 | 77.7 | 6.87 | | | |
| 5697.06 | 32.83 | PK | 107 | 2.5 | H | 39.49 | 72.32 | 112.52 | 40.20 | | | |
| 5709.04 | 33.78 | PK | 171 | 2.2 | H | 39.49 | 73.27 | 117.23 | 43.96 | | | |
| 5722.26 | 33.29 | PK | 169 | 1.5 | H | 39.49 | 72.78 | 125.45 | 52.67 | | | |
| 5853.05 | 33.63 | PK | 343 | 2.3 | H | 39.87 | 73.50 | 124.75 | 51.25 | | | |
| 5859.80 | 33.75 | PK | 329 | 1.2 | H | 39.87 | 73.62 | 118.96 | 45.34 | | | |
| 5884.17 | 33.42 | PK | 38 | 2.0 | H | 39.87 | 73.29 | 107.91 | 34.62 | | | |
| 5924.88 | 31.82 | PK | 168 | 1.5 | H | 39.97 | 71.79 | 77.7 | 5.91 | | | |
| 11550.00 | 43.74 | PK | 220 | 1.6 | H | 17.51 | 61.25 | 83.5 | 22.25 | | | |
| 11550.00 | 28.97 | Ave. | 220 | 1.6 | H | 17.51 | 46.48 | 63.5 | 17.02 | | | |

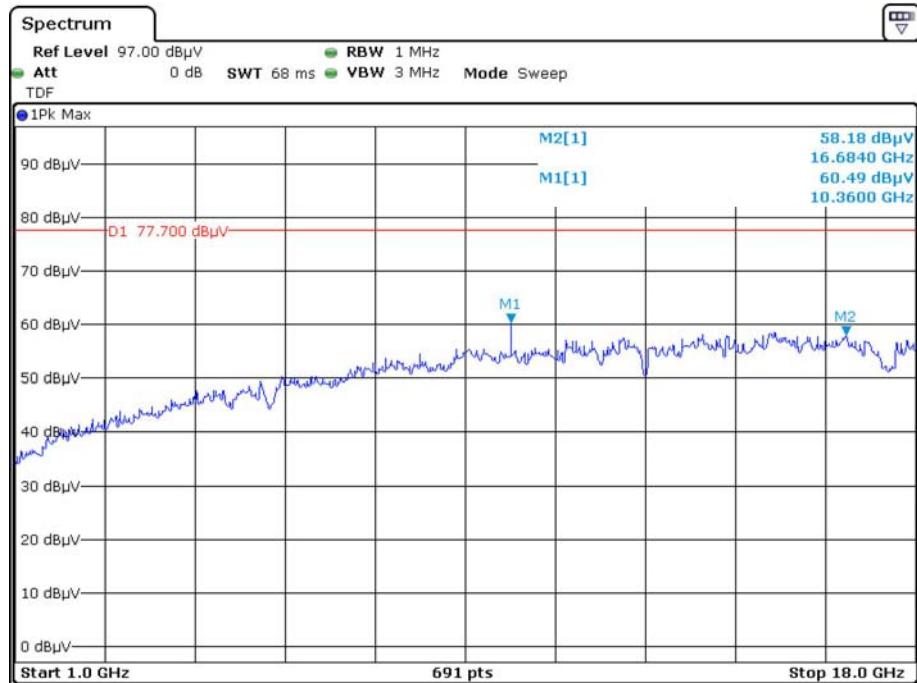
Note:

Corrected Amplitude = Corrected Factor + Reading

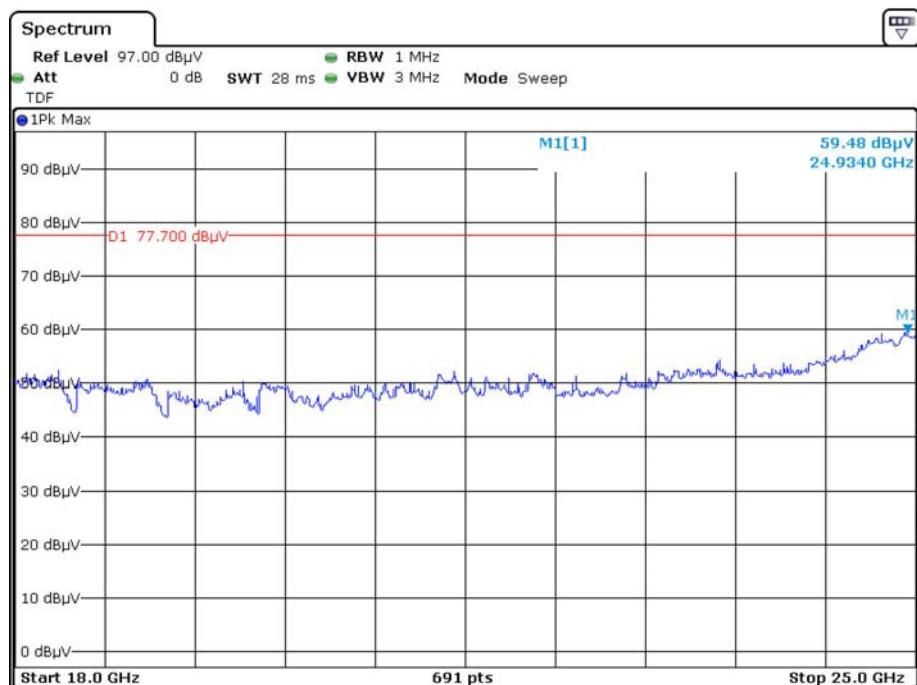
Corrected Factor=Antenna factor (RX) + Cable Loss – Amplifier Factor

Margin = Limit- Corr. Amplitude

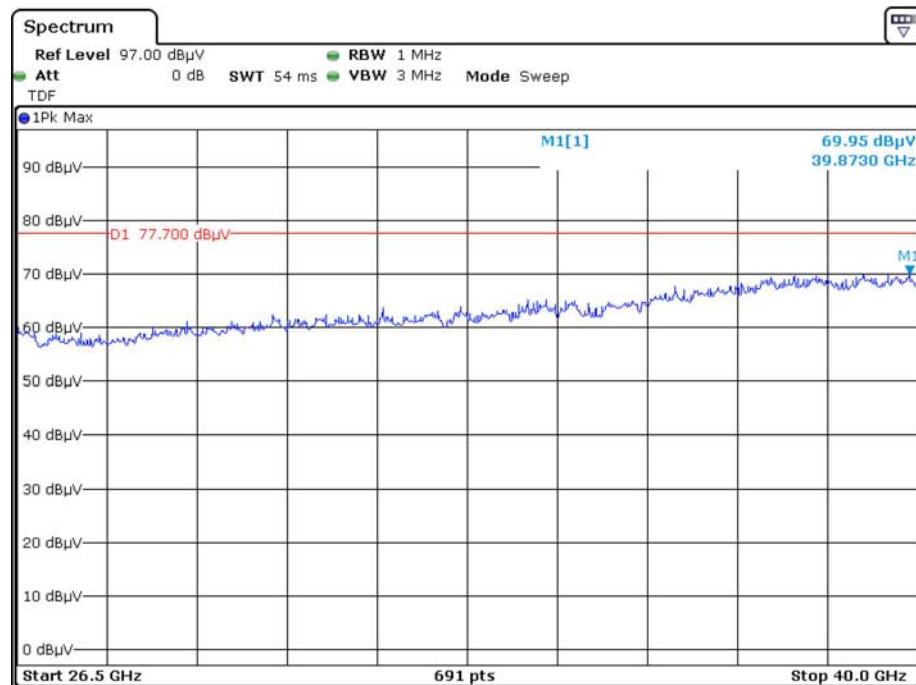
All other spurious emissions are 20 dB below the limit or are on the system noise floor level.

Peak**Pre-scan with 802.11a 5180MHz****Horizontal**

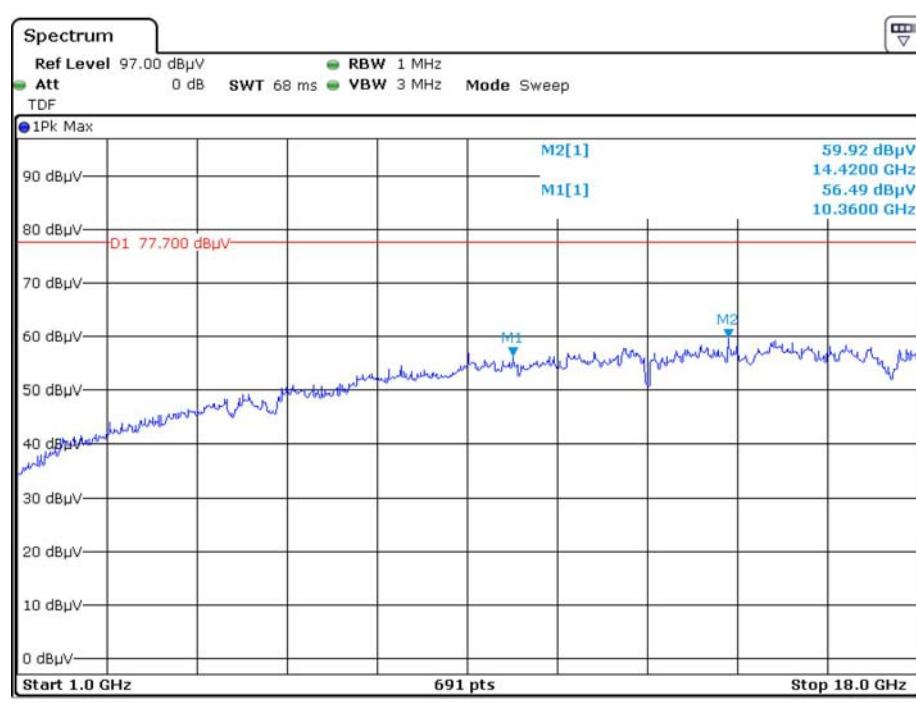
Date: 10.APR.2021 18:55:34

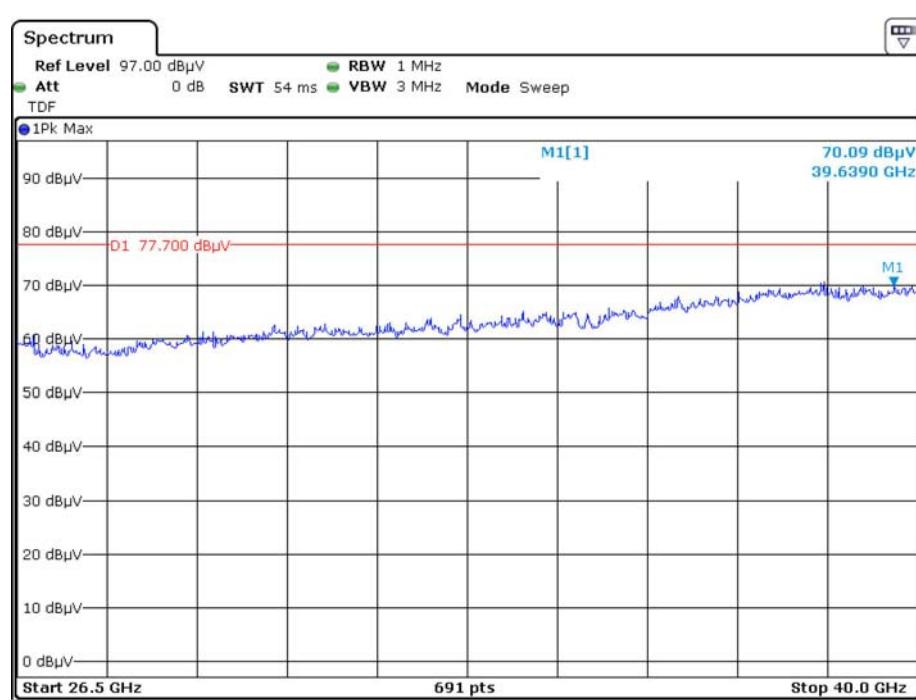
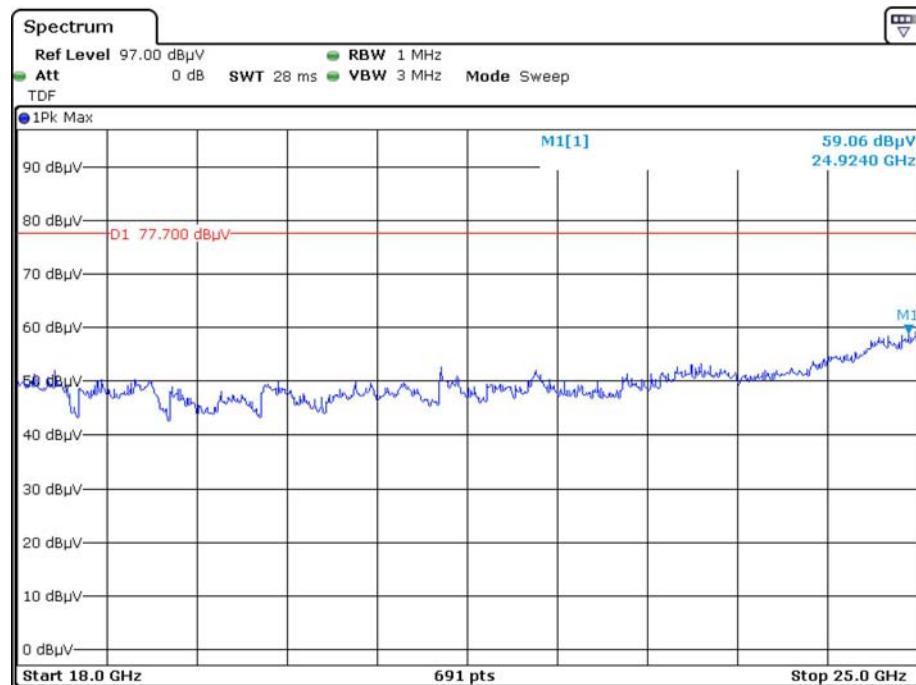


Date: 10.APR.2021 19:31:16



Vertical





FCC §15.407(a) (1) – 26 dB & 6dB EMISSION BANDWIDTH

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

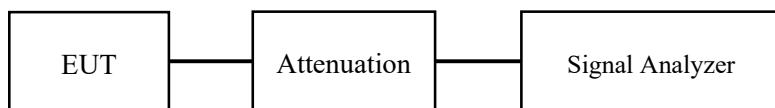
1. Emission Bandwidth (EBW)

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

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 kHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ 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.



Test Data**Environmental Conditions**

| | |
|---------------------------|-----------|
| Temperature: | 27 °C |
| Relative Humidity: | 57 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Bravos Zhao on 2021-07-19.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix

FCC §15.407(a) (1) (3) – CONDUCTED TRANSMITTER OUTPUT POWER

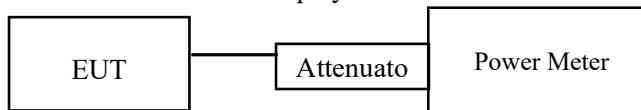
Applicable Standard

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.

For the band 5.725-5.85 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.

Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



Test Data

Environmental Conditions

| | |
|--------------------|-----------|
| Temperature: | 27 °C |
| Relative Humidity: | 57 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Bravos Zhao on 2021-07-19.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix

FCC §15.407(a) (1) (3) - POWER SPECTRAL DENSITY

Applicable Standard

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.

For the band 5.725-5.85 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.

Test Procedure

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW $\geq 1/T$, where T is defined in section II.B.1.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 27 °C |
| Relative Humidity: | 57 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Bravos Zhao on 2021-07-19.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix

APPENDIX**AppendixA1:EmissionBandwidth
Test Result**

| Test Mode | Antenna | Channel | 26db EBW [MHz] | Limit[MHz] | Verdict |
|-----------|---------|--------------|----------------|------------|---------|
| 11A | Ant1 | 5180 | 19.040 | --- | PASS |
| | Ant0 | 5180 | 18.760 | --- | PASS |
| | Ant1 | 5200 | 18.960 | --- | PASS |
| | Ant0 | 5200 | 18.800 | --- | PASS |
| | Ant1 | 5240 | 19.040 | --- | PASS |
| | Ant0 | 5240 | 18.880 | --- | PASS |
| | Ant1 | 5260 | 19.040 | --- | PASS |
| | Ant0 | 5260 | 18.640 | --- | PASS |
| | Ant1 | 5280 | 19.120 | --- | PASS |
| | Ant0 | 5280 | 18.720 | --- | PASS |
| | Ant1 | 5320 | 19.000 | --- | PASS |
| | Ant0 | 5320 | 18.840 | --- | PASS |
| | Ant1 | 5500 | 19.040 | --- | PASS |
| | Ant0 | 5500 | 18.840 | --- | PASS |
| | Ant1 | 5600 | 18.960 | --- | PASS |
| | Ant0 | 5600 | 18.840 | --- | PASS |
| | Ant1 | 5720 | 18.840 | --- | PASS |
| | Ant0 | 5720 | 18.760 | --- | PASS |
| | Ant1 | 5720_UNII-2C | 14.4 | --- | PASS |
| | Ant0 | 5720_UNII-2C | 14.36 | --- | PASS |
| | Ant1 | 5720_UNII-3 | 4.44 | --- | PASS |
| | Ant0 | 5720_UNII-3 | 4.4 | --- | PASS |
| 11N20MIMO | Ant1 | 5180 | 19.680 | --- | PASS |
| | Ant0 | 5180 | 19.920 | --- | PASS |
| | Ant1 | 5200 | 19.840 | --- | PASS |
| | Ant0 | 5200 | 19.720 | --- | PASS |
| | Ant1 | 5240 | 19.960 | --- | PASS |
| | Ant0 | 5240 | 19.640 | --- | PASS |
| | Ant1 | 5260 | 19.800 | --- | PASS |
| | Ant0 | 5260 | 19.760 | --- | PASS |
| | Ant1 | 5280 | 19.880 | --- | PASS |
| | Ant0 | 5280 | 19.960 | --- | PASS |
| | Ant1 | 5320 | 20.160 | --- | PASS |
| | Ant0 | 5320 | 19.760 | --- | PASS |
| | Ant1 | 5500 | 19.800 | --- | PASS |
| | Ant0 | 5500 | 19.720 | --- | PASS |
| | Ant1 | 5600 | 19.800 | --- | PASS |
| | Ant0 | 5600 | 19.840 | --- | PASS |
| | Ant1 | 5720 | 20.040 | --- | PASS |
| | Ant0 | 5720 | 19.760 | --- | PASS |
| | Ant1 | 5720_UNII-2C | 14.84 | --- | PASS |
| | Ant0 | 5720_UNII-2C | 14.84 | --- | PASS |
| | Ant1 | 5720_UNII-3 | 5.2 | --- | PASS |
| | Ant0 | 5720_UNII-3 | 4.92 | --- | PASS |
| 11N40MIMO | Ant1 | 5190 | 39.200 | --- | PASS |
| | Ant0 | 5190 | 39.760 | --- | PASS |
| | Ant1 | 5230 | 39.200 | --- | PASS |
| | Ant0 | 5230 | 39.920 | --- | PASS |
| | Ant1 | 5270 | 39.200 | --- | PASS |
| | Ant0 | 5270 | 39.840 | --- | PASS |
| | Ant1 | 5310 | 39.440 | --- | PASS |
| | Ant0 | 5310 | 39.920 | --- | PASS |
| | Ant1 | 5510 | 39.040 | --- | PASS |

| | | | | | |
|------------|------|--------------|--------|-----|------|
| | Ant0 | 5510 | 40.000 | --- | PASS |
| | Ant1 | 5550 | 39.040 | --- | PASS |
| | Ant0 | 5550 | 39.680 | --- | PASS |
| | Ant1 | 5710 | 39.360 | --- | PASS |
| | Ant0 | 5710 | 39.760 | --- | PASS |
| | Ant1 | 5710 UNII-2C | 34.6 | --- | PASS |
| | Ant0 | 5710 UNII-2C | 34.84 | --- | PASS |
| | Ant1 | 5710 UNII-3 | 4.76 | --- | PASS |
| | Ant0 | 5710 UNII-3 | 4.92 | --- | PASS |
| | Ant1 | 5180 | 19.640 | --- | PASS |
| | Ant0 | 5180 | 19.920 | --- | PASS |
| | Ant1 | 5200 | 19.640 | --- | PASS |
| | Ant0 | 5200 | 19.920 | --- | PASS |
| | Ant1 | 5240 | 19.760 | --- | PASS |
| | Ant0 | 5240 | 19.760 | --- | PASS |
| 11AC20MIMO | Ant1 | 5260 | 19.960 | --- | PASS |
| | Ant0 | 5260 | 19.640 | --- | PASS |
| | Ant1 | 5280 | 19.680 | --- | PASS |
| | Ant0 | 5280 | 19.680 | --- | PASS |
| | Ant1 | 5320 | 20.080 | --- | PASS |
| | Ant0 | 5320 | 19.880 | --- | PASS |
| | Ant1 | 5500 | 19.560 | --- | PASS |
| | Ant0 | 5500 | 19.880 | --- | PASS |
| | Ant1 | 5600 | 20.360 | --- | PASS |
| | Ant0 | 5600 | 19.680 | --- | PASS |
| | Ant1 | 5720 | 19.800 | --- | PASS |
| | Ant0 | 5720 | 20.200 | --- | PASS |
| | Ant1 | 5720 UNII-2C | 14.88 | --- | PASS |
| | Ant0 | 5720 UNII-2C | 15.28 | --- | PASS |
| | Ant1 | 5720 UNII-3 | 4.92 | --- | PASS |
| | Ant0 | 5720 UNII-3 | 4.92 | --- | PASS |
| 11AC40MIMO | Ant1 | 5190 | 39.120 | --- | PASS |
| | Ant0 | 5190 | 40.080 | --- | PASS |
| | Ant1 | 5230 | 39.280 | --- | PASS |
| | Ant0 | 5230 | 40.080 | --- | PASS |
| | Ant1 | 5270 | 39.440 | --- | PASS |
| | Ant0 | 5270 | 39.920 | --- | PASS |
| | Ant1 | 5310 | 39.440 | --- | PASS |
| | Ant0 | 5310 | 40.000 | --- | PASS |
| | Ant1 | 5510 | 39.360 | --- | PASS |
| | Ant0 | 5510 | 40.000 | --- | PASS |
| | Ant1 | 5550 | 39.040 | --- | PASS |
| | Ant0 | 5550 | 39.920 | --- | PASS |
| | Ant1 | 5710 | 39.360 | --- | PASS |
| | Ant0 | 5710 | 40.160 | --- | PASS |
| | Ant1 | 5710 UNII-2C | 34.68 | --- | PASS |
| | Ant0 | 5710 UNII-2C | 35 | --- | PASS |
| | Ant1 | 5710 UNII-3 | 4.68 | --- | PASS |
| | Ant0 | 5710 UNII-3 | 5.16 | --- | PASS |
| 11AC80MIMO | Ant1 | 5210 | 82.080 | --- | PASS |
| | Ant0 | 5210 | 82.400 | --- | PASS |
| | Ant1 | 5290 | 82.080 | --- | PASS |
| | Ant0 | 5290 | 82.400 | --- | PASS |
| | Ant1 | 5530 | 82.240 | --- | PASS |
| | Ant0 | 5530 | 83.040 | --- | PASS |
| | Ant1 | 5610 | 81.920 | --- | PASS |
| | Ant0 | 5610 | 82.400 | --- | PASS |
| | Ant1 | 5690 | 82.240 | --- | PASS |
| | Ant0 | 5690 | 82.560 | --- | PASS |
| | Ant1 | 5690 UNII-2C | 76.12 | --- | PASS |
| | Ant0 | 5690 UNII-2C | 76.12 | --- | PASS |

| | | | | | |
|------------|------|--------------|--------|-----|------|
| | Ant1 | 5690_UNII-3 | 6.12 | --- | PASS |
| | Ant0 | 5690_UNII-3 | 6.44 | --- | PASS |
| 11AX20MIMO | Ant1 | 5180 | 21.320 | --- | PASS |
| | Ant0 | 5180 | 21.200 | --- | PASS |
| | Ant1 | 5200 | 21.640 | --- | PASS |
| | Ant0 | 5200 | 21.040 | --- | PASS |
| | Ant1 | 5240 | 21.240 | --- | PASS |
| | Ant0 | 5240 | 21.040 | --- | PASS |
| | Ant1 | 5260 | 21.600 | --- | PASS |
| | Ant0 | 5260 | 21.360 | --- | PASS |
| | Ant1 | 5280 | 21.920 | --- | PASS |
| | Ant0 | 5280 | 21.600 | --- | PASS |
| | Ant1 | 5320 | 21.240 | --- | PASS |
| | Ant0 | 5320 | 21.200 | --- | PASS |
| | Ant1 | 5500 | 21.400 | --- | PASS |
| | Ant0 | 5500 | 21.120 | --- | PASS |
| | Ant1 | 5600 | 21.880 | --- | PASS |
| | Ant0 | 5600 | 21.120 | --- | PASS |
| | Ant1 | 5720 | 21.280 | --- | PASS |
| | Ant0 | 5720 | 21.920 | --- | PASS |
| | Ant1 | 5720 UNII-2C | 15.56 | --- | PASS |
| | Ant0 | 5720 UNII-2C | 15.96 | --- | PASS |
| | Ant1 | 5720_UNII-3 | 5.72 | --- | PASS |
| | Ant0 | 5720_UNII-3 | 5.96 | --- | PASS |
| 11AX40MIMO | Ant1 | 5190 | 44.560 | --- | PASS |
| | Ant0 | 5190 | 44.400 | --- | PASS |
| | Ant1 | 5230 | 44.400 | --- | PASS |
| | Ant0 | 5230 | 44.320 | --- | PASS |
| | Ant1 | 5270 | 44.160 | --- | PASS |
| | Ant0 | 5270 | 44.960 | --- | PASS |
| | Ant1 | 5310 | 45.200 | --- | PASS |
| | Ant0 | 5310 | 44.240 | --- | PASS |
| | Ant1 | 5510 | 44.400 | --- | PASS |
| | Ant0 | 5510 | 43.920 | --- | PASS |
| | Ant1 | 5550 | 44.240 | --- | PASS |
| | Ant0 | 5550 | 45.440 | --- | PASS |
| | Ant1 | 5710 | 43.920 | --- | PASS |
| | Ant0 | 5710 | 44.640 | --- | PASS |
| | Ant1 | 5710 UNII-2C | 37.08 | --- | PASS |
| | Ant0 | 5710 UNII-2C | 37.24 | --- | PASS |
| | Ant1 | 5710_UNII-3 | 6.84 | --- | PASS |
| | Ant0 | 5710_UNII-3 | 7.4 | --- | PASS |
| 11AX80MIMO | Ant1 | 5210 | 88.960 | --- | PASS |
| | Ant0 | 5210 | 87.840 | --- | PASS |
| | Ant1 | 5290 | 89.120 | --- | PASS |
| | Ant0 | 5290 | 88.640 | --- | PASS |
| | Ant1 | 5530 | 88.480 | --- | PASS |
| | Ant0 | 5530 | 88.640 | --- | PASS |
| | Ant1 | 5610 | 89.280 | --- | PASS |
| | Ant0 | 5610 | 87.840 | --- | PASS |
| | Ant1 | 5690 | 88.480 | --- | PASS |
| | Ant0 | 5690 | 89.440 | --- | PASS |
| | Ant1 | 5690_UNII-2C | 80.28 | --- | PASS |
| | Ant0 | 5690 UNII-2C | 80.6 | --- | PASS |
| | Ant1 | 5690_UNII-3 | 8.2 | --- | PASS |
| | Ant0 | 5690_UNII-3 | 8.84 | --- | PASS |

Test Graphs

