# TEST REPORT

| | | |
|---|---|---|
| **Product** | : | reMarkable paper tablet |
| **Trade mark** | : | reMarkable |
| **Model/Type reference** | : | RM102 |
| **Serial Number** | : | N/A |
| **Report Number** | : | EED32L00004802 |
| **FCC ID** | : | 2AMK2-RM102 |
| **Date of Issue** | : | Mar. 12, 2019 |
| **Test Standards** | : | 47 CFR Part 15Subpart E |
| **Test result** | : | PASS |

Prepared for:

**reMarkable AS**
**Biermanns gate 6, 0374 Oslo, Norway**

Prepared by:

**Centre Testing International Group Co., Ltd.**
**Hongwei Industrial Zone, Bao'an 70 District,**
**Shenzhen, Guangdong, China**
**TEL: +86-755-3368 3668**
**FAX: +86-755-3368 3385**

| | | | |
|---|---|---|---|
| Tested by: | Huang xiaole | Compiled by: | Peter |
| | Huang xiaole | | Peter |
| Reviewed by: | Ware Xin | Approved by: | Kevin yang |
| | Ware Xin | | Kevin yang |
| Date: | Mar. 12, 2019 | | Check No.:3096325411 |

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. CTI Report Seal

# 2 Version

| Version No. | Date | Description |
|---|---|---|
| 00 | Mar. 12, 2019 | Original |
| | | |
| | | |

# 3 Test Summary

| Test Item | Test Requirement | Test method | Result |
|---|---|---|---|
| **Antenna Requirement** | 47 CFR Part 15 Subpart C Section 15.203 | ANSI C63.10-2013 | PASS |
| **AC Power Line Conducted Emission** | 47 CFR Part 15 Subpart E Section 15.407 (b)(6) | ANSI C63.10-2013 | PASS |
| **Conducted Output Power and transmit power control mechanism** | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(4)(h)(1) | ANSI C63.10-2013 | PASS |
| **Emission Bandwidth** | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2) | ANSI C63.10-2013 | PASS |
| **Peak Power Spectral Density** | 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(5) | ANSI C63.10-2013 | PASS |
| **Frequency stability** | 47 CFR Part 15 Subpart E Section 15.407 (g) | ANSI C63.10-2013 | PASS |
| **Operation in the absence of information to the transmit** | 47 CFR Part 15 Subpart E Section 15.407 (c) | 47 CFR Part 15 Subpart E | PASS |
| **Unwanted Emissions that fall Outside of the Restricted Bands** | 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(5) | ANSI C63.10-2013 | PASS |
| **Unwanted Emissions in the Restricted Bands** | 47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8) | ANSI C63.10-2013 | PASS |
| **Restricted bands around fundamental frequency (Radiated Emission)** | 47 CFR Part 15 Subpart E Section 15.407 (b)(6)(7)(8) | ANSI C63.10-2013 | PASS |

Remark:

The tested sample(s) and the sample information are provided by the client.

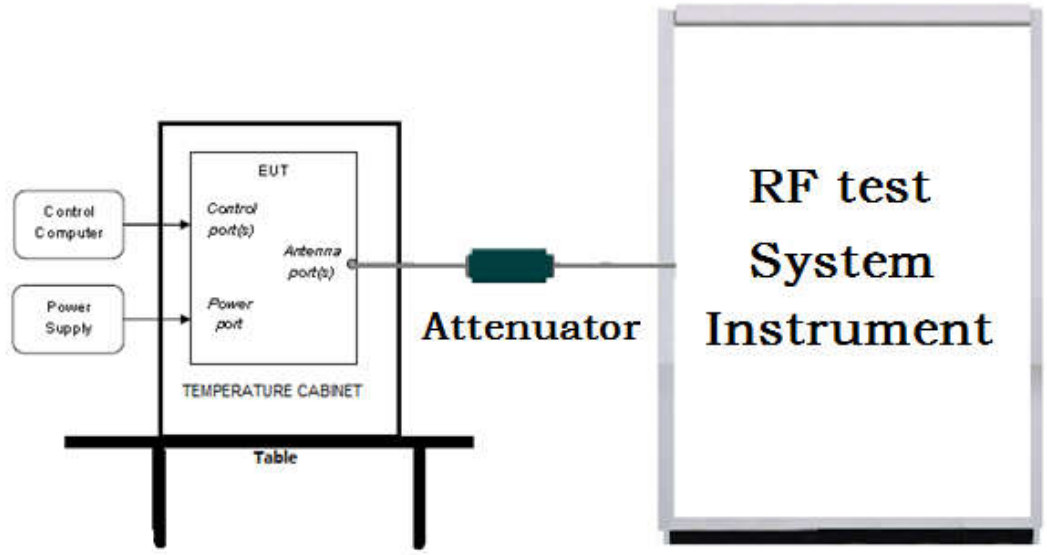
Tx: In this whole report Tx (or tx) means Transmitter.
Rx: In this whole report Rx (or rx) means Receiver.
RF: In this whole report RF means Radiated Frequency.
CH: In this whole report CH means channel.
Volt: In this whole report Volt means Voltage.
Temp: In this whole report Temp means Temperature.
Humid: In this whole report Humid means humidity.
Press: In this whole report Press means Pressure.
N/A: In this whole report not application

# 4 Content

# 5 Test Requirement

## 5.1 Test setup

### 5.1.1 For Conducted test setup




### 5.1.2 For Radiated Emissions test setup

**Radiated Emissions setup:**

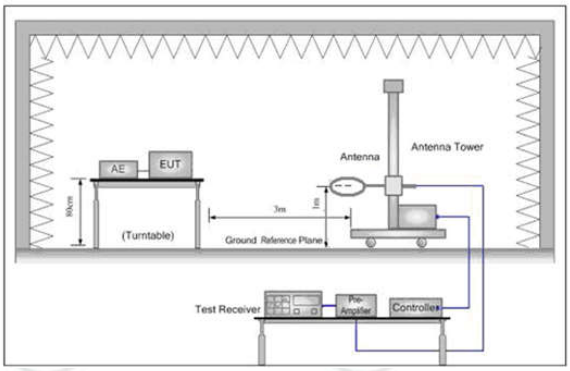



Figure 1. Below 30MHz

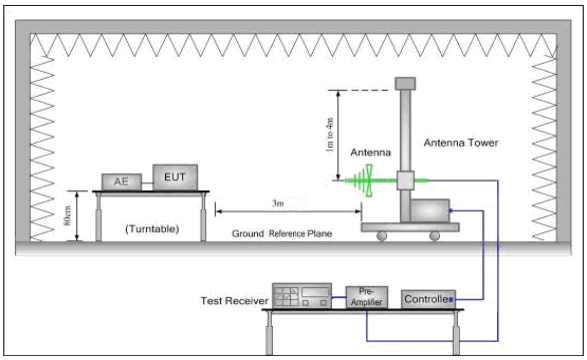



Figure 2. 30MHz to 1GHz

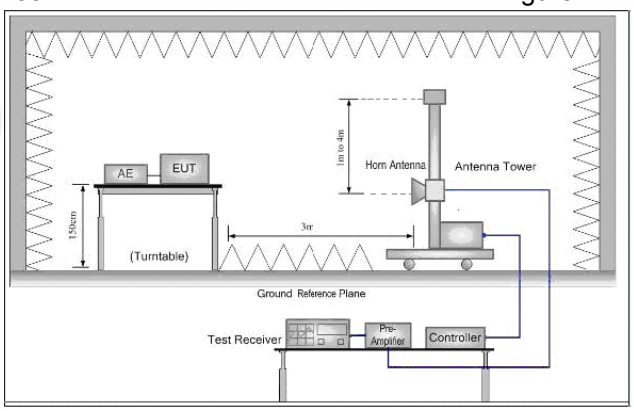
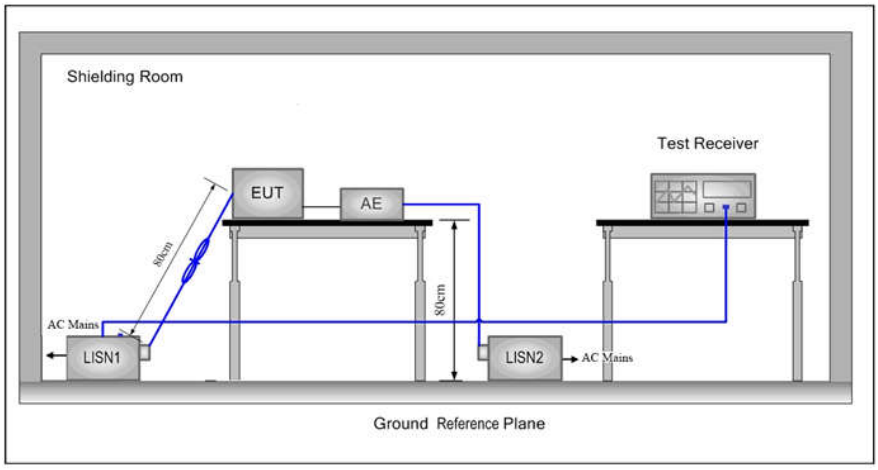



Figure 3. Above 1GHz

### 5.1.3 For Conducted Emissions test setup

**Conducted Emissions setup**




## 5.2 Test Environment

| Operating Environment: | |
|---|---|
| Temperature: | 21°C |
| Humidity: | 56% RH |
| Atmospheric Pressure: | 1010mbar |

## 5.3 Test Condition

**Test channel:**

| Test Mode | Tx/Rx | RF Channel | | |
|---|---|---|---|---|
| | | Low(L) | Middle(M) | High(H) |
| 802.11a/n/ac(20M) | 5150MHz ~5250 MHz | Channel 36 | Channel 40 | Channel 48 |
| | | 5180MHz | 5200MHz | 5240MHz |
| 802.11n/ac(40M) | 5150MHz ~5250 MHz | Channel 38 | N/A | Channel 46 |
| | | 5190MHz | N/A | 5230MHz |
| 802.11ac(80M) | 5150MHz ~5250 MHz | N/A | Channel 42 | N/A |
| | | N/A | 5210MHz | N/A |
| 802.11a/n/ac(20M) | 5725MHz ~5850 MHz | Channel 149 | Channel 157 | Channel 165 |
| | | 5745MHz | 5785MHz | 5825MHz |
| 802.11n/ac(40M) | 5725MHz ~5850 MHz | Channel 151 | N/A | Channel 159 |
| | | 5755MHz | N/A | 5795MHz |
| 802.11ac(80M) | 5725MHz ~5850 MHz | N/A | Channel 155 | N/A |
| | | N/A | 5775MHz | N/A |

**Test mode:**
**Pre-scan under all rate at lowest channel for Ant1**

| Mode | 802.11a | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 9.86 | 9.58 | 9.55 | 9.25 | 8.94 | 9.57 | 8.97 | 9.74 |
| Mode | 802.11n (20M) | | | | | | | |
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 9.88 | 9.70 | 9.45 | 9.36 | 8.99 | 8.91 | 8.95 | 8.64 |
| Mode | 802.11ac (20M) | | | | | | | |
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 8.95 | 8.75 | 8.50 | 8.51 | 7.98 | 7.85 | 7.69 | 7.60 |
| Mode | 802.11n(40M) | | | | | | | |
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 8.80 | 8.65 | 8.43 | 8.25 | 7.90 | 7.88 | 7.64 | 7.78 |
| Mode | 802.11ac (40M) | | | | | | | |
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 8.78 | 8.60 | 8.65 | 8.40 | 8.31 | 8.32 | 8.55 | 8.20 |
| Mode | 802.11ac(80M) | | | | | | | |
| Data Rate | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| Power(dBm) | 5.86 | 5.25 | 4.94 | 4.95 | 4.68 | 4.33 | 4.60 | 4.55 |

Through Pre-scan, MCS0 is the worst case of 802.11a (20M);MCS0 is the worst case of 802.11n (20M) ;MCS0 is the worst case of 802.11ac (20M) ;MCS0 is the worst case of 802.11n(40M) ;MCS0 is the worst case of 802.11ac (40M) ;MCS0 is the worst case of 802.11ac(80M).

# 6 General Information

## 6.1 Client Information

| | |
|---|---|
| Applicant: | reMarkable AS |
| Address of Applicant: | Biermanns gate 6, 0374 Oslo, Norway |
| Manufacturer: | reMarkable AS |
| Address of Manufacturer: | Biermanns gate 6, 0374 Oslo, Norway |
| Factory: | Dongguan Kaifa Technology Co., Ltd. |
| Address of Factory: | Kaifa Park of CEC Industry Base, Humen town, Dongguan City, Guangdong Province. |

## 6.2 General Description of EUT

| | |
|---|---|
| Product Name: | reMarkable paper tablet |
| Model No.(EUT): | RM102 |
| Trade Mark: | reMarkable |
| EUT Supports Radios application: | 2.4GHz Wi-Fi: 802.11b/g/n(HT20): 2412MHz ~2462 MHz,<br>5GHz Wi-Fi : 5.15-5.25GHz;5.725-5.850GHz,<br>802.11 a, 802.11n(HT20/HT40);802.11ac(VHT20/VHT40/VHT80) |
| Power Supply: | Polymer Li-ion Battery 3.7V, 3000mAh |
| USB Cable: | 102cm(Unscreened) |
| Sample Received Date: | Jan. 08, 2019 |
| Sample tested Date: | Jan. 11, 2019 to Jan. 29, 2019 |

## 6.3 Product Specification subjective to this standard

| | |
|---|---|
| Operation Frequency: | IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz<br>IEEE802.11n/ac(40M): 5150MHz ~5250 MHz<br>IEEE802.11ac(80M): 5150MHz ~5250 MHz<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz<br>IEEE802.11n/ac(40M): 5725MHz ~5850 MHz<br>IEEE802.11ac(80M): 5725MHz ~5850 MHz |
| Channel Numbers: | IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel<br>IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel<br>IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel<br>IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel<br>IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel<br>IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel |
| Type of Modulation: | OFDM |
| Sample Type: | Portable production |
| Firmware version: | 7.45.96.32(manufacturer declare) |
| Hardware version: | D(manufacturer declare) |
| Test Power Grade: | N/A |
| Test Software of EUT: | N/A |
| Antenna Type: | PIFA Antenna |
| Antenna gain: | 4.43dBi@5.2G, 4.4dBi@5.8G |
| Test Voltage: | AC 120V, 60Hz |

Operation Frequency each of channel

| For 802.11a/n/ac( 20M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|---|---|---|
| Channel | Frequency | Channel | Frequency |
| 36 | 5180MHz | 44 | 5220MHz |
| 40 | 5200MHz | 48 | 5240MHz |
| For 802.11a/n/ac( 20M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 149 | 5745MHz | 161 | 5805MHz |
| 153 | 5765MHz | 165 | 5825MHz |
| 157 | 5785MHz | NA | NA |

| For 802.11n/ac(40M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|---|---|---|
| Channel | Frequency | Channel | Frequency |
| 38 | 5190MHz | 46 | 5230MHz |
| For 802.11n/ac(40M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | Channel | Frequency |
| 151 | 5755MHz | 159 | 5795MHz |

| For 802.11ac(80M) Operation in the 5150MHz ~5250 MHz band | | | |
|---|---|---|---|
| Channel | Frequency | NA | NA |
| 42 | 5210MHz | NA | NA |
| For 802.11ac(80M) Operation in the 5725MHz ~5850 MHz band | | | |
| Channel | Frequency | NA | NA |
| 155 | 5775MHz | NA | NA |

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Associated equipment name | | Manufacture | model | serial number | Supplied by | Certification |
|---|---|---|---|---|---|---|
| AE1 | Mouse | Lenovo | M-UAE119 | LZ834A60ADM | CTI | FCC |
| AE2 | PC | Apple | MMGF2ZP/A | ODN20170212 | CTI | FCC |

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

## 6.6 Deviation from Standards

None.

## 6.7 Abnormalities from Standard Conditions

None.

## 6.8 Other Information Requested by the Customer

None.

## 6.9 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|---|---|---|
| 1 | Radio Frequency | $7.9 \times 10^{-8}$ |
| 2 | RF power, conducted | 0.46dB (30MHz-1GHz) |
| | | 0.55dB (1GHz-18GHz) |
| 3 | Radiated Spurious emission test | 4.5dB (30MHz-1GHz) |
| | | 4.8dB (1GHz-12.75GHz) |
| 4 | Conduction emission | 3.5dB (9kHz to 150kHz) |
| | | 3.1dB (150kHz to 30MHz) |
| 5 | Temperature test | 0.64°C |
| 6 | Humidity test | 3.8% |
| 7 | DC power voltages | 0.026% |

# 7 Equipment List

| RF test system | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. Date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Spectrum Analyzer | Keysight | N9010A | MY54510339 | 03-13-2018 | 03-12-2019 |
| Signal Generator | Keysight | N5182B | MY53051549 | 03-13-2018 | 03-12-2019 |
| High-pass filter | Sinoscite | FL3CX03WG18NM12-0398-002 | --- | 01-09-2019 | 01-08-2020 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-09-2019 | 01-08-2020 |
| DC Power | Keysight | E3642A | MY54426035 | 03-13-2018 | 03-12-2019 |
| PC-1 | Lenovo | R4960d | --- | 03-13-2018 | 03-12-2019 |
| BT&WI-FI Automatic control | R&S | OSP120 | 101374 | 03-13-2018 | 03-12-2019 |
| RF control unit | JS Tonscend | JS0806-2 | 15860006 | 03-13-2018 | 03-12-2019 |
| RF control unit | JS Tonscend | JS0806-1 | 15860004 | 03-13-2018 | 03-12-2019 |
| RF control unit | JS Tonscend | JS0806-4 | 158060007 | 03-13-2018 | 03-12-2019 |
| BT&WI-FI Automatic test software | JS Tonscend | JS1120-2 | --- | 03-13-2018 | 03-12-2019 |
| Temperature/ Humidity Indicator | biaozhi | HM10 | 1804186 | 10-12-2018 | 10-11-2019 |

| Conducted disturbance Test | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| Receiver | R&S | ESCI | 100435 | 05-25-2018 | 05-24-2019 |
| Temperature/ Humidity Indicator | Defu | TH128 | / | 07-02-2018 | 07-01-2019 |
| Communication test set | Agilent | E5515C | GB47050534 | 03-16-2018 | 03-15-2019 |
| Communication test set | R&S | CMW500 | 152394 | 03-16-2018 | 03-15-2019 |
| LISN | R&S | ENV216 | 100098 | 05-10-2018 | 05-10-2019 |
| LISN | schwarzbeck | NNLK8121 | 8121-529 | 05-10-2018 | 05-10-2019 |
| Voltage Probe | R&S | ESH2-Z3 0299.7810.56 | 100042 | 06-13-2017 | 06-11-2020 |
| Current Probe | R&S | EZ-17 816.2063.03 | 100106 | 05-30-2018 | 05-29-2019 |
| ISN | TESEQ | ISN T800 | 30297 | 02-06-2018 | 02-05-2019 |
| Barometer | changchun | DYM3 | 1188 | 07-02-2018 | 07-01-2019 |

| 3M Semi/full-anechoic Chamber | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | --- | 06-04-2016 | 06-03-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-401 | 10-28-2018 | 10-27-2019 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB9163 | 9163-618 | 07-30-2018 | 07-29-2019 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Microwave Preamplifier | Tonscend | EMC051845SE | 980380 | 01-17-2017<br>01-16-2018 | 01-16-2018<br>01-15-2019 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 9120D-1869 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057410 | 06-05-2018 | 06-03-2021 |
| Double ridge horn antenna | A.H.SYSTEMS | SAS-574 | 6042 | 06-05-2018 | 06-04-2021 |
| Pre-amplifier | A.H.SYSTEMS | PAP-1840-60 | 6041 | 06-05-2018 | 06-04-2021 |
| Loop Antenna | ETS | 6502 | 00071730 | 06-22-2017 | 06-21-2019 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 05-11-2018 | 05-10-2019 |
| Receiver | R&S | ESCI | 100435 | 05-25-2018 | 05-24-2019 |
| Receiver | R&S | ESCI7 | 100938-003 | 11-23-2018 | 11-22-2019 |
| Multi device Controller | maturo | NCD/070/10711112 | --- | 01-09-2019 | 01-08-2020 |
| LISN | schwarzbeck | NNBM8125 | 81251547 | 05-11-2018 | 05-10-2019 |
| LISN | schwarzbeck | NNBM8125 | 81251548 | 05-11-2018 | 05-10-2019 |
| Signal Generator | Agilent | E4438C | MY45095744 | 03-13-2018 | 03-12-2019 |
| Signal Generator | Keysight | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Temperature/ Humidity Indicator | Shanghai qixiang | HM10 | 1804298 | 10-12-2018 | 10-11-2019 |
| Communication test set | Agilent | E5515C | GB47050534 | 03-16-2018 | 03-15-2019 |
| Cable line | Fulai(7M) | SF106 | 5219/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(6M) | SF106 | 5220/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5216/6A | 01-09-2019 | 01-08-2020 |
| Cable line | Fulai(3M) | SF106 | 5217/6A | 01-09-2019 | 01-08-2020 |
| Communication test set | R&S | CMW500 | 104466 | 02-05-2018 | 02-04-2019 |
| High-pass filter | Sinoscite | FL3CX03WG18NM12-0398-002 | --- | 01-09-2019 | 01-08-2020 |
| High-pass filter | MICRO-TRONICS | SPA-F-63029-4 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01CA09CL12-0395-001 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX01CA08CL12-0393-001 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02CA04CL12-0396-002 | --- | 01-09-2019 | 01-08-2020 |
| band rejection filter | Sinoscite | FL5CX02CA03CL12-0394-001 | --- | 01-09-2019 | 01-08-2020 |

| 3M full-anechoic Chamber | | | | | |
|---|---|---|---|---|---|
| **Equipment** | **Manufacturer** | **Model No.** | **Serial Number** | **Cal. date (mm-dd-yyyy)** | **Cal. Due date (mm-dd-yyyy)** |
| RSE Automatic test software | JS Tonscend | JS36-RSE | 10166 | 06-20-2018 | 06-19-2019 |
| Receiver | Keysight | N9038A | MY57290136 | 03-28-2018 | 03-27-2019 |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 03-28-2018 | 03-27-2019 |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 03-28-2018 | 03-27-2019 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-075 | 04-25-2018 | 04-23-2021 |
| Loop Antenna | Schwarzbeck | FMZB 1519B | 1519B-076 | 04-25-2018 | 04-23-2021 |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-829 | 04-25-2018 | 04-23-2021 |
| Communicatio n Antenna | Schwarzbeck | CLSA 0110L | 1014 | 02-15-2018 | 02-14-2019 |
| Biconical antenna | Schwarzbeck | VUBA 9117 | 9117-381 | 04-25-2018 | 04-23-2021 |
| Horn Antenna | ETS-LINDGREN | 3117 | 00057407 | 07-10-2018 | 07-08-2021 |
| Preamplifier | EMCI | EMC184055SE | 980596 | 06-20-2018 | 06-19-2019 |
| Communicatio n test set | R&S | CMW500 | 102898 | 01-19-2018<br>01-18-2019 | 01-18-2019<br>01-17-2020 |
| Preamplifier | EMCI | EMC001330 | 980563 | 06-20-2018 | 06-19-2019 |
| Preamplifier | Agilent | 8449B | 3008A02425 | 08-21-2018 | 08-20-2019 |
| Temperature/ Humidity Indicator | biaozhi | GM1360 | EE1186631 | 05-02-2018 | 05-01-2019 |
| Signal Generator | KEYSIGHT | E8257D | MY53401106 | 03-13-2018 | 03-12-2019 |
| Fully Anechoic Chamber | TDK | FAC-3 | --- | 01-17-2018 | 01-15-2021 |
| Filter bank | JS Tonscend | JS0806-F | 188060094 | 04-10-2018 | 04-08-2021 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | 01-09-2019 | 01-08-2020 |
| Cable line | Times | HF160-KMKM-3.00M | 393493-0001 | 01-09-2019 | 01-08-2020 |

# 8 Radio Technical Requirements Specification

## Reference documents for testing:

| No. | Identity | Document Title |
|---|---|---|
| 1 | FCC Part15E | Subpart C-Intentional Radiators |
| 2 | ANSI C63.10-2013 | American National Standard for Testing Unlicesed Wireless Devices |
| 3 | KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 | Guidelines for compliance testing of unlicensed national information infrastructure (U-NII) device part 15, subpart E |
| 4 | KDB 662911 D01 Multiple Transmitter Output v02r01 | Emissions Testing of Transmitters with Multiple Outputs in the Same Band |

## Test Results List:

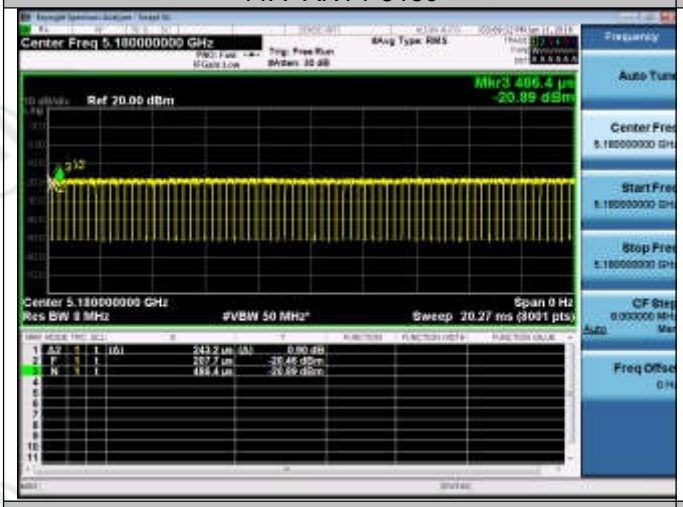
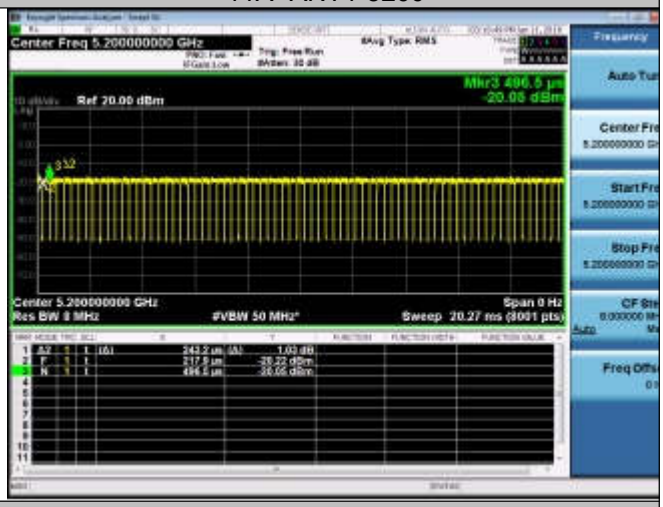
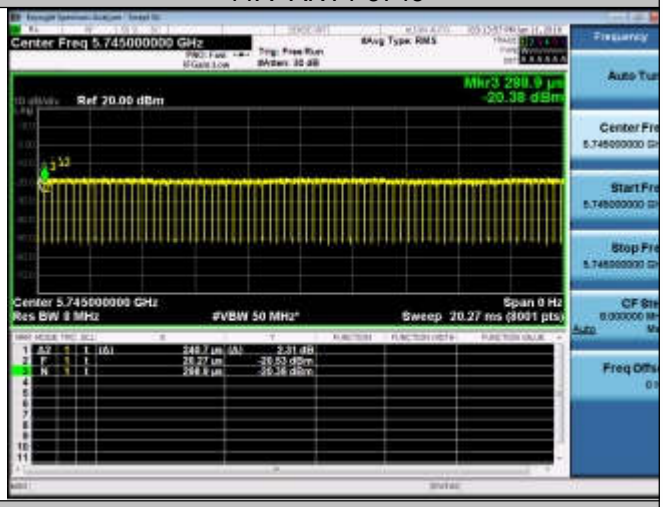
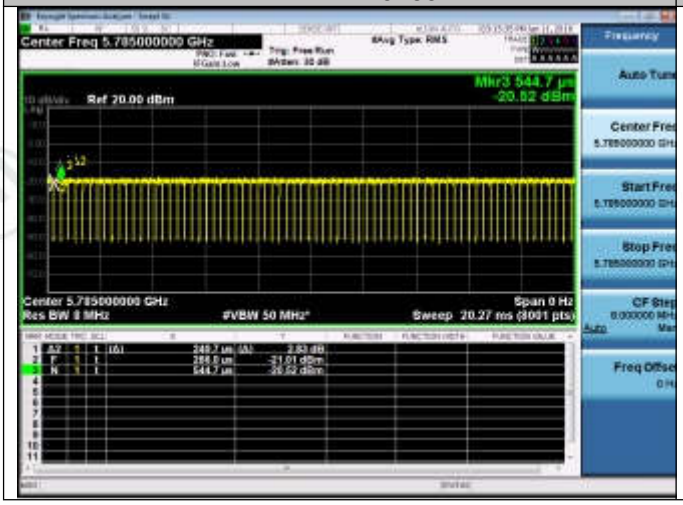
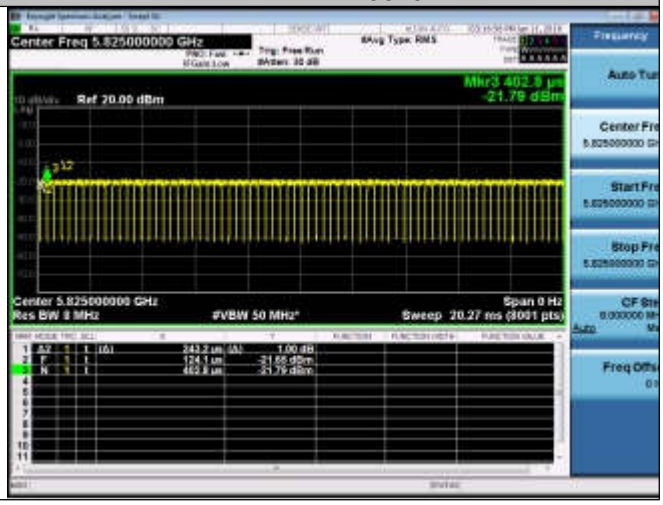
| Test Requirement | Test method | Test item | Verdict | Note |
|---|---|---|---|---|
| Part15E Section 15.407 (a)(1)(2)(4)(h)(1) | KDB789033 / KDB 662911 | Duty Cycle | PASS | Appendix A) |
| Part15E Section 15.407 (a)(1)(2) | KDB789033 | Emission Bandwidth and Occupied Bandwidth | PASS | Appendix B) |
| Part15E Section 15.407 (a)(1)(2)(4)(h)(1) | KDB789033 / KDB 662911 | Conducted Output Power and transmit power control mechanism | PASS | Appendix C) |
| Part15E Section 15.407 (a)(1)(2)(5) | KDB789033 / KDB 662911 | Power Spectral Density | PASS | Appendix D) |
| Part15E Section 15.407 (b)(1)to(6) | KDB789033 / KDB 662911 | Band Edge Measurements | PASS | Appendix E) |
| Part15E Section 15.407 (g) | KDB789033 | Frequency stability | PASS | Appendix F) |
| Part15C Section 15.203 | ANSI C63.10 | Antenna Requirement | PASS | Appendix G) |
| Part15E Section 15.407 (c) | Section 15.407 | Operation in the absence of information to the transmit | PASS | Appendix H) |
| Part15E Section 15.407 (b)(6) | ANSI C63.10 | AC Power Line Conducted Emission | PASS | Appendix I) |
| Part15E Section 15.407 (b)(6)(7)(8) | KDB789033 | Restricted bands around fundamental frequency (Radiated Emission) | PASS | Appendix J) |
| Part15E Section 15.407 (b)(6)(7)(8) | KDB789033 | Unwanted Emissions in the Restricted Bands | PASS | Appendix K) |
| Part15E Section 15.407 (b)(1)(2)(3)(5) | KDB789033 | Unwanted Emissions that fall Outside of the Restricted Bands | PASS | Appendix L) |

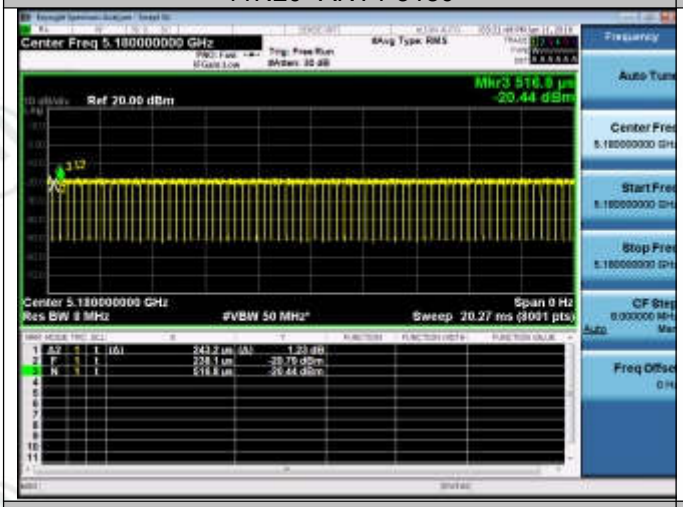
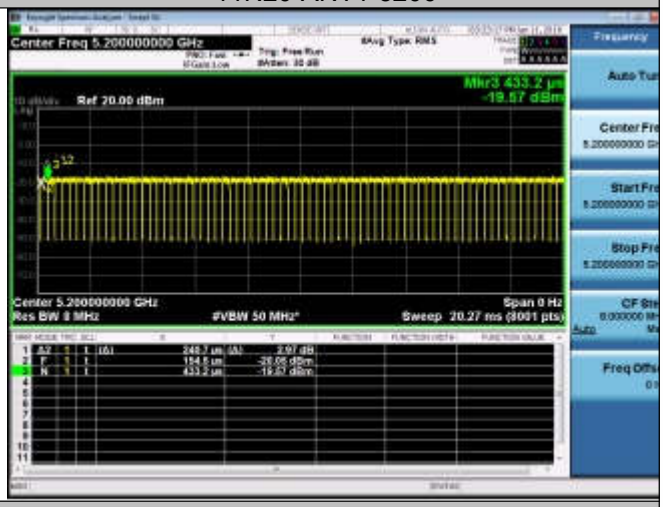
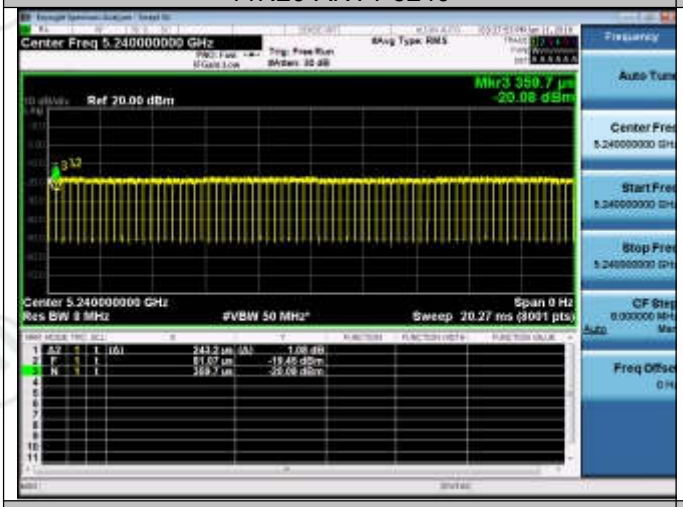
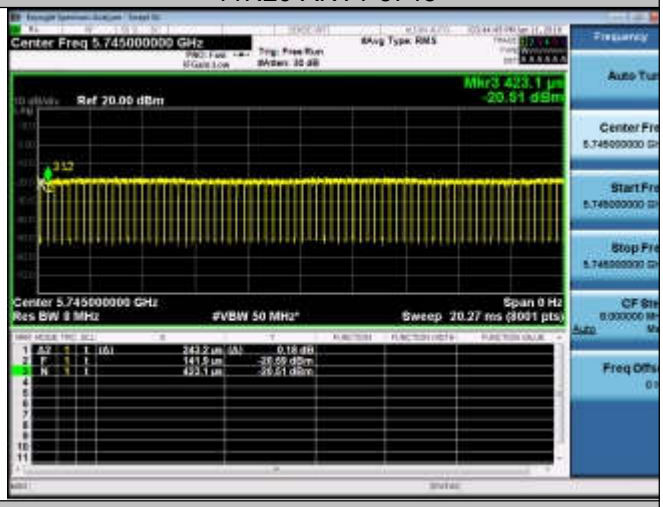
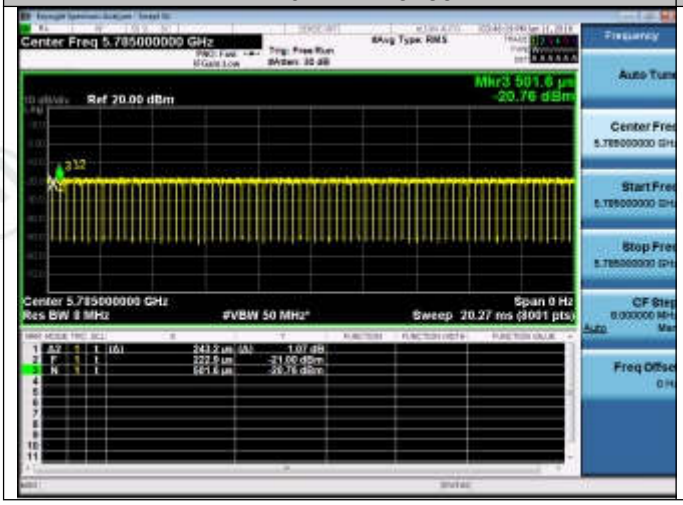
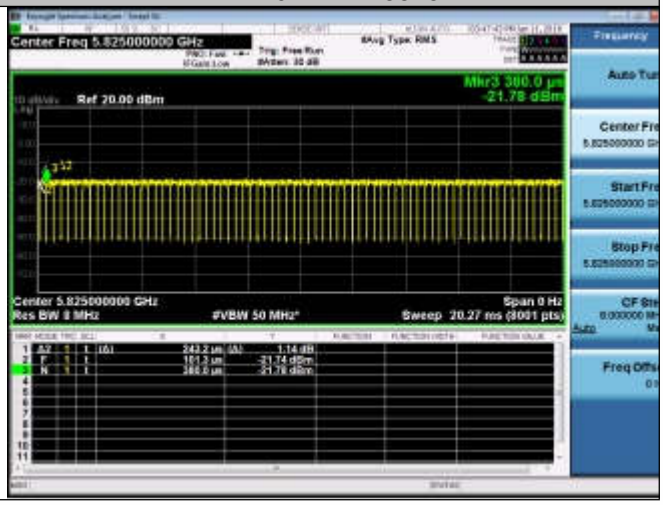
# Appendix A): Duty Cycle

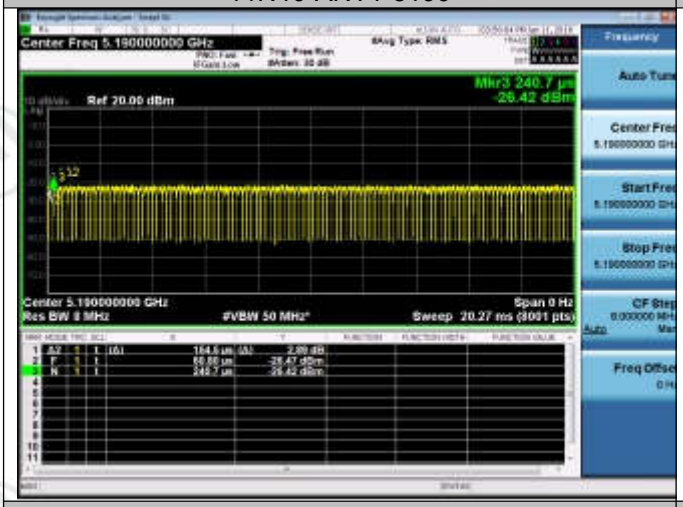
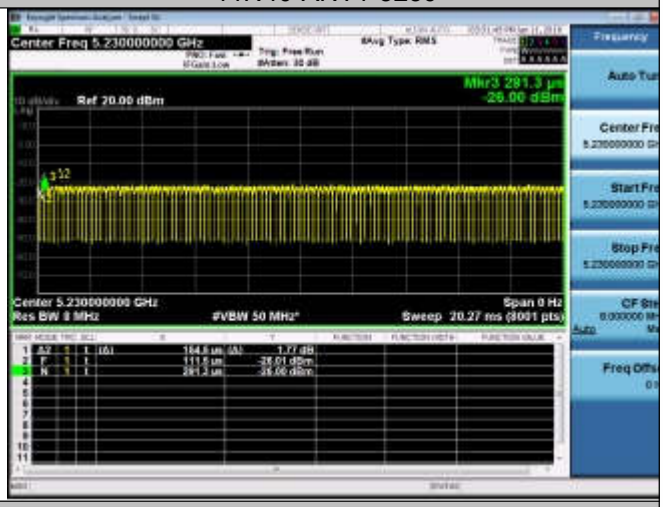
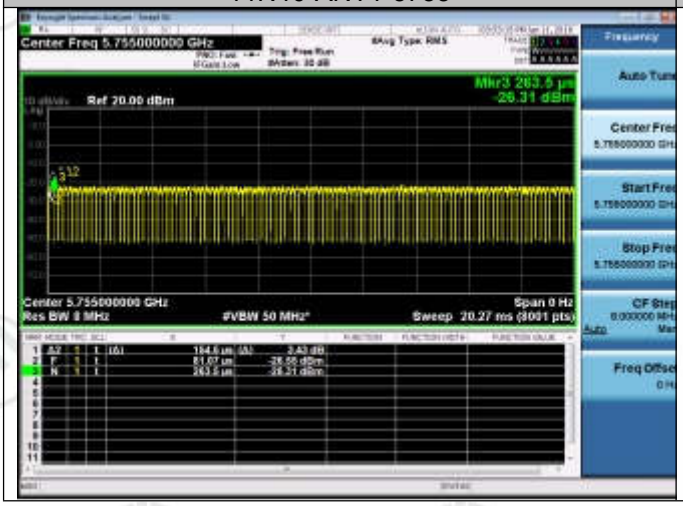
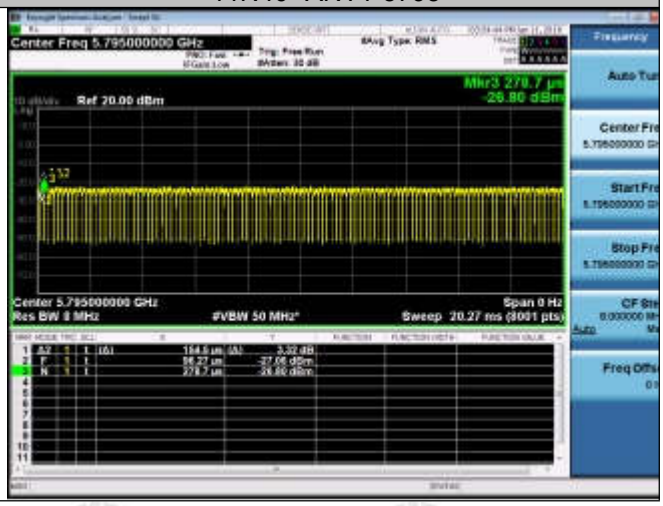
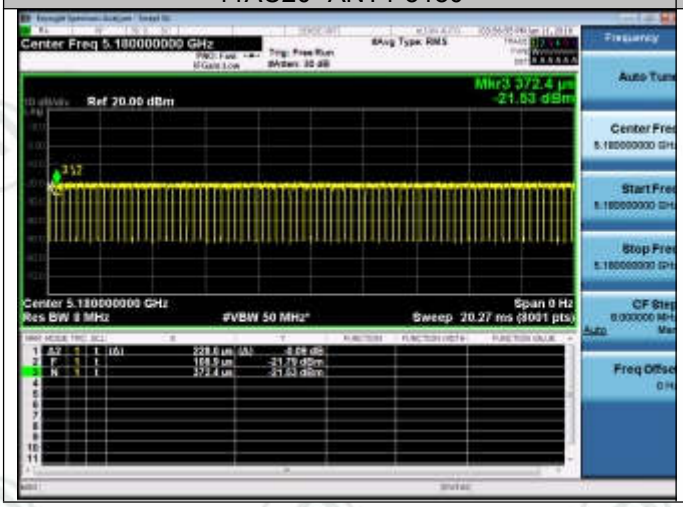
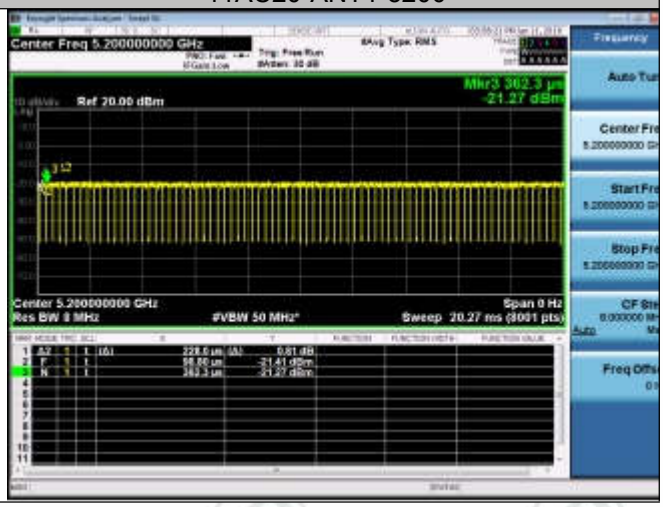
## Result Table

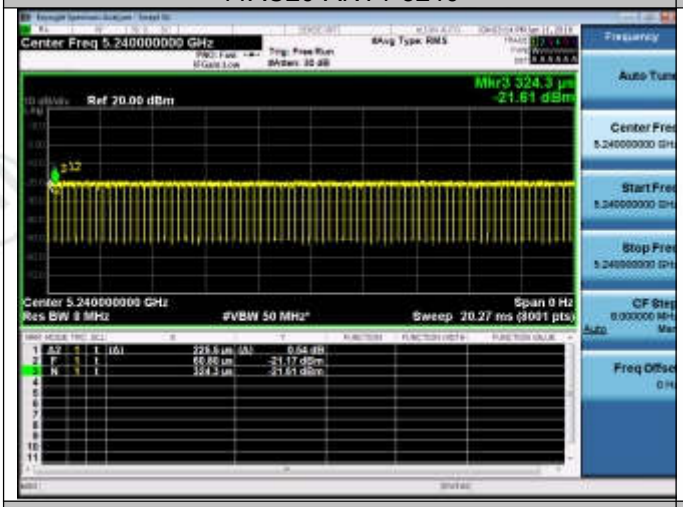
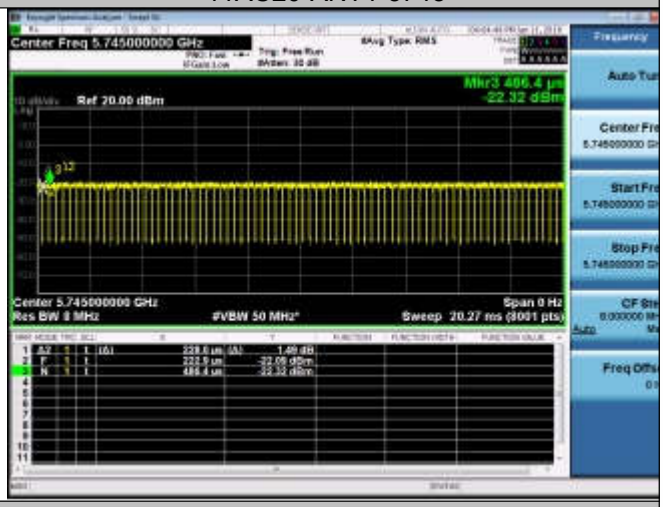
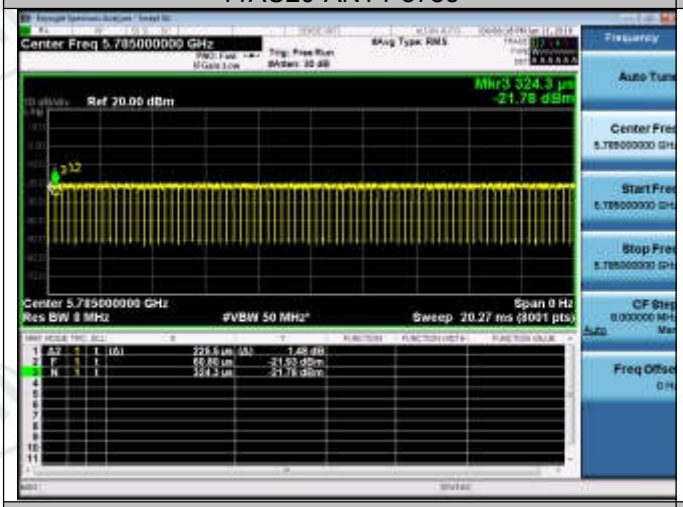
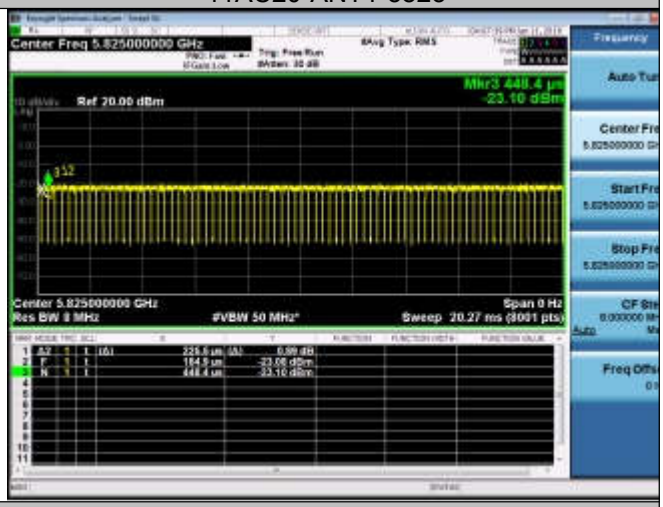
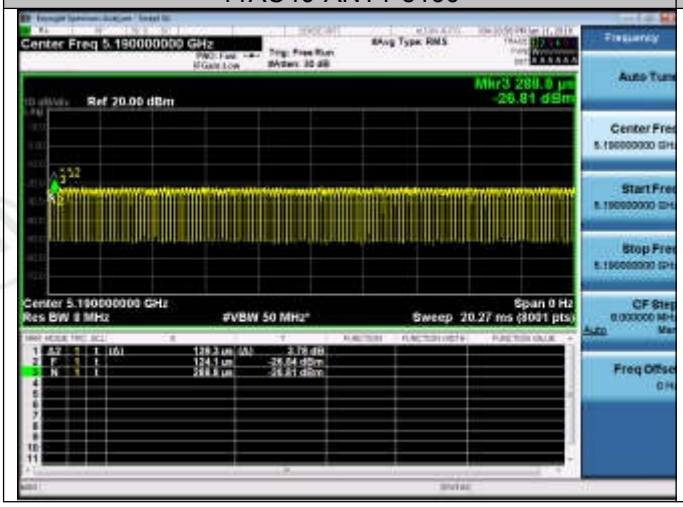
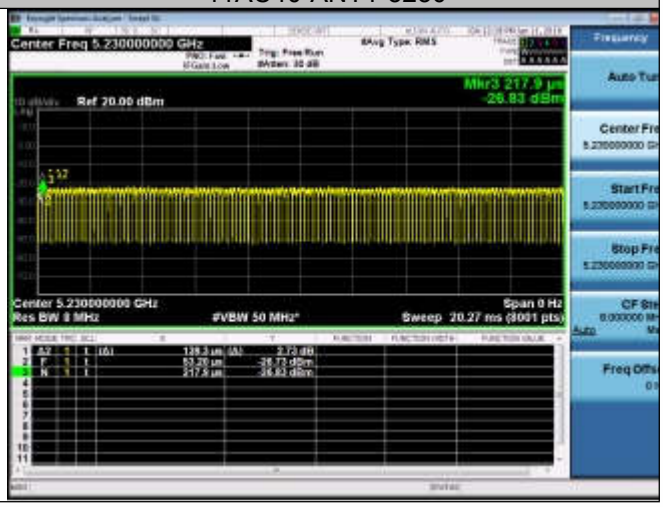
| Test Mode | Channel | Duty Cycle[%] | Verdict |
|---|---|---|---|
| 11A | 5180 | 87.27 | PASS |
| 11A | 5200 | 87.27 | PASS |
| 11A | 5240 | 86.36 | PASS |
| 11A | 5745 | 86.36 | PASS |
| 11A | 5785 | 86.36 | PASS |
| 11A | 5825 | 87.27 | PASS |
| 11N20SISO | 5180 | 87.27 | PASS |
| 11N20SISO | 5200 | 86.36 | PASS |
| 11N20SISO | 5240 | 87.27 | PASS |
| 11N20SISO | 5745 | 86.49 | PASS |
| 11N20SISO | 5785 | 87.27 | PASS |
| 11N20SISO | 5825 | 87.27 | PASS |
| 11N40SISO | 5190 | 85.92 | PASS |
| 11N40SISO | 5230 | 85.92 | PASS |
| 11N40SISO | 5755 | 84.72 | PASS |
| 11N40SISO | 5795 | 84.72 | PASS |
| 11AC20SISO | 5180 | 86.54 | PASS |
| 11AC20SISO | 5200 | 86.54 | PASS |
| 11AC20SISO | 5240 | 85.58 | PASS |
| 11AC20SISO | 5745 | 86.54 | PASS |
| 11AC20SISO | 5785 | 85.58 | PASS |
| 11AC20SISO | 5825 | 85.58 | PASS |
| 11AC40SISO | 5190 | 84.62 | PASS |
| 11AC40SISO | 5230 | 84.62 | PASS |
| 11AC40SISO | 5755 | 84.62 | PASS |
| 11AC40SISO | 5795 | 83.33 | PASS |
| 11AC80SISO | 5210 | 75.56 | PASS |
| 11AC80SISO | 5775 | 75.56 | PASS |

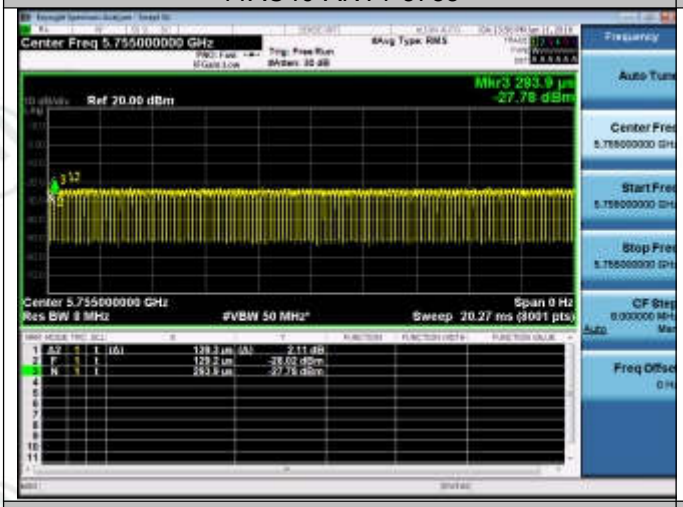
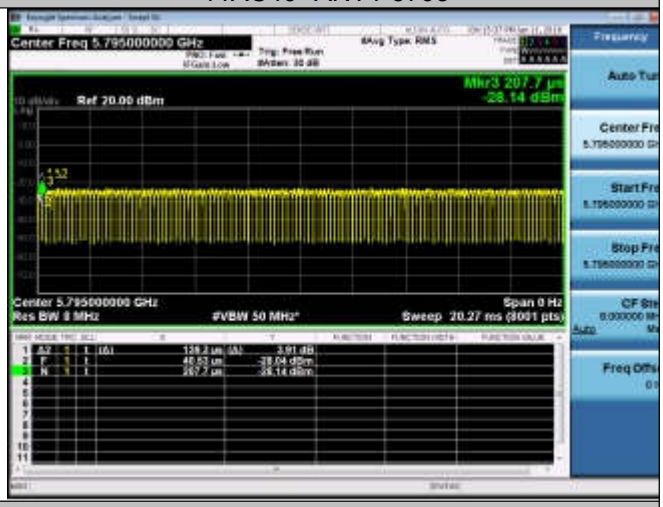
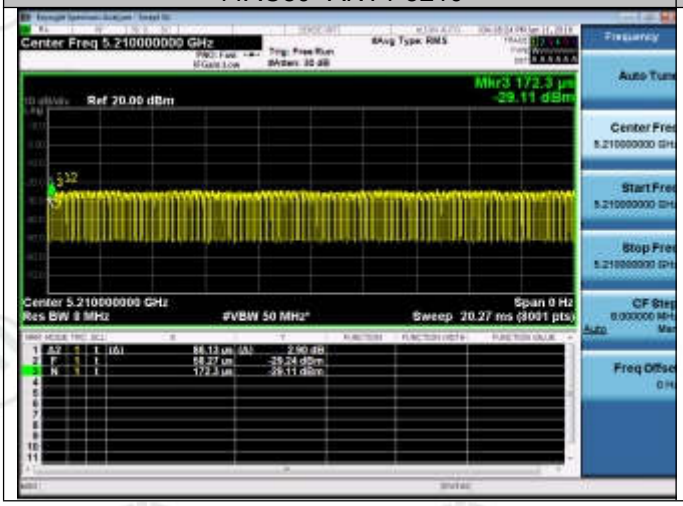
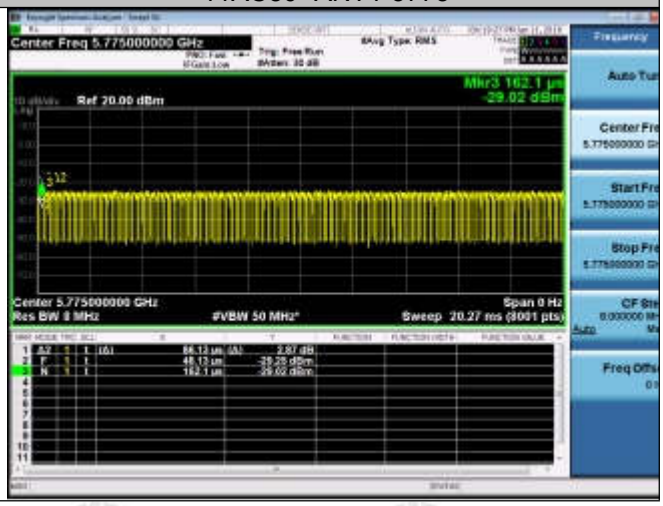
**Test Graph**

| 11A -ANT1-5180 | 11A -ANT1-5200 |
|---|---|
|  |  |
| 11A -ANT1-5240 | 11A -ANT1-5745 |
|  |  |
| 11A -ANT1-5785 | 11A -ANT1-5825 |
|  |  |

| 11N20 -ANT1-5180 | 11N20-ANT1-5200 |
|---|---|
|  |  |
| 11N20-ANT1-5240 | 11N20-ANT1-5745 |
|  |  |
| 11N20 -ANT1-5785 | 11N20 -ANT1-5825 |
|  |  |

| 11N40-ANT1-5190 | 11N40-ANT1-5230 |
|---|---|
|  |  |
| 11N40-ANT1-5755 | 11N40 -ANT1-5795 |
|  |  |
| 11AC20 -ANT1-5180 | 11AC20-ANT1-5200 |
|  |  |

| 11AC20-ANT1-5240 | 11AC20-ANT1-5745 |
|---|---|
|  |  |
| 11AC20-ANT1-5785 | 11AC20-ANT1-5825 |
|  |  |
| 11AC40-ANT1-5190 | 11AC40-ANT1-5230 |
|  |  |

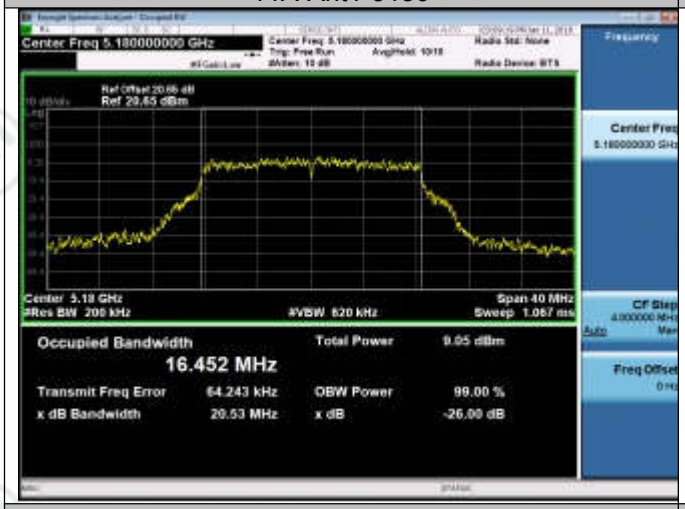
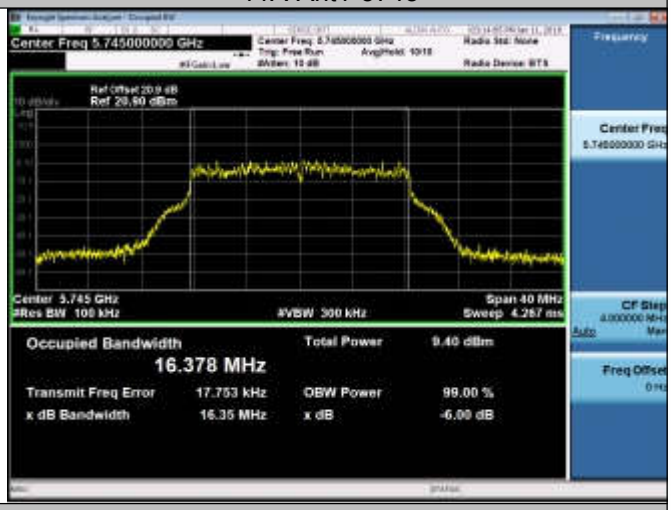
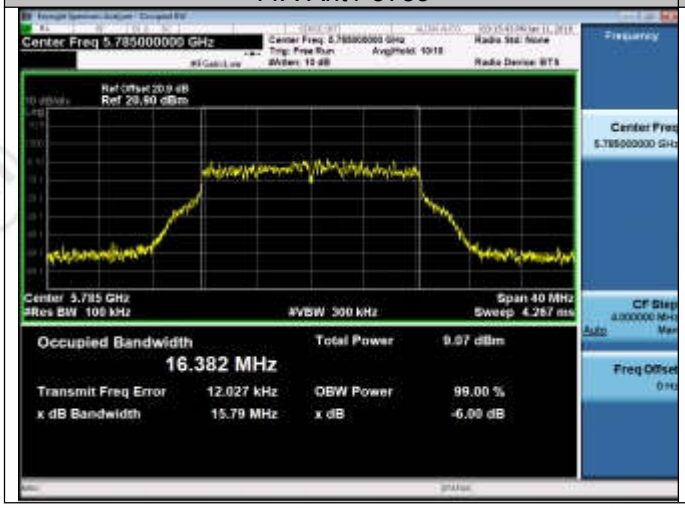
| 11AC40-ANT1-5755 | 11AC40 -ANT1-5795 |
|---|---|
|  |  |
| 11AC80 -ANT1-5210 | 11AC80 -ANT1-5775 |
|  |  |

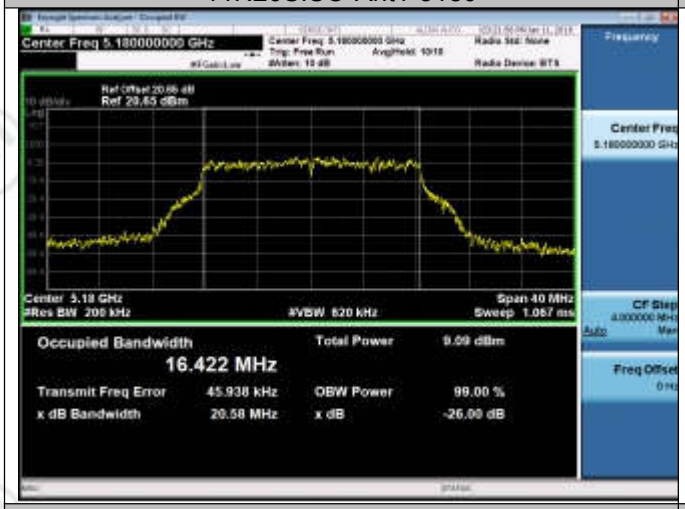
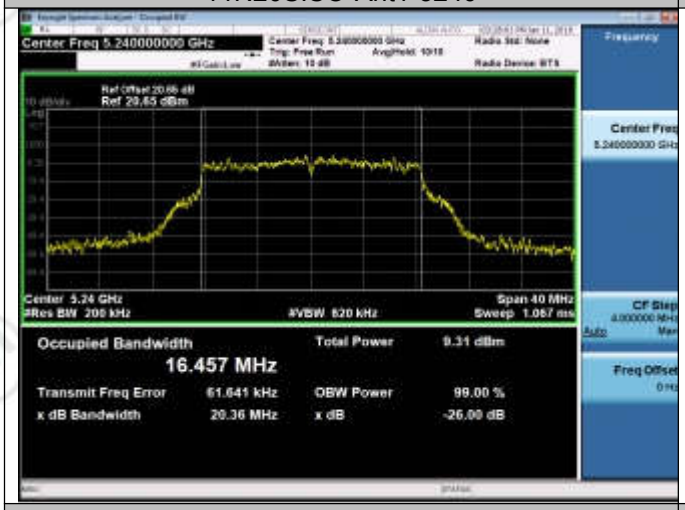
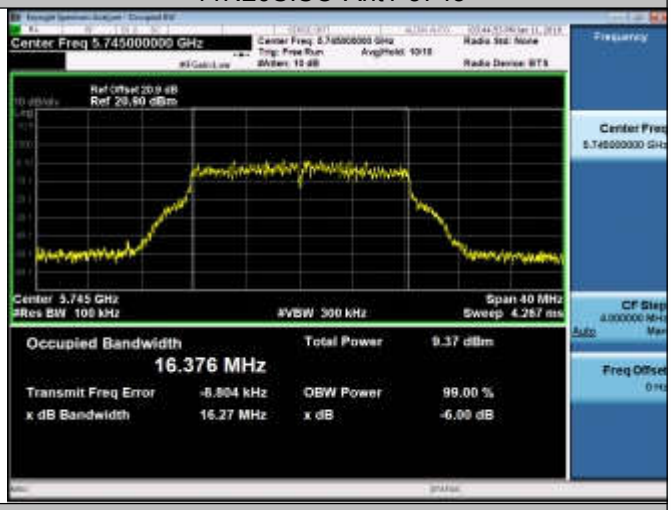
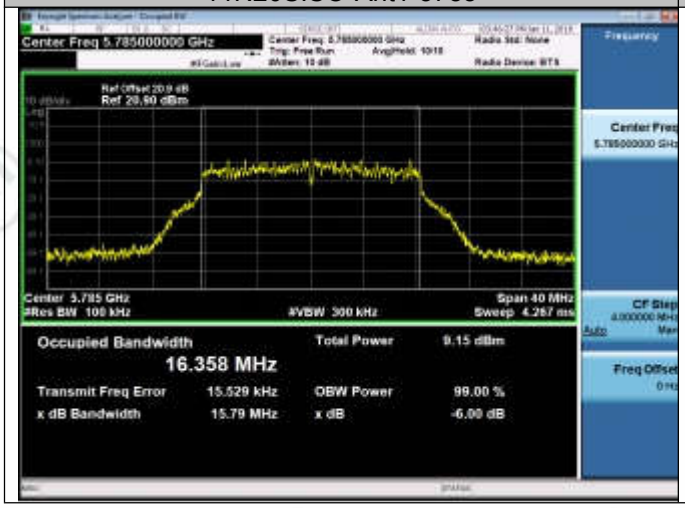
# Appendix B): Emission Bandwidth

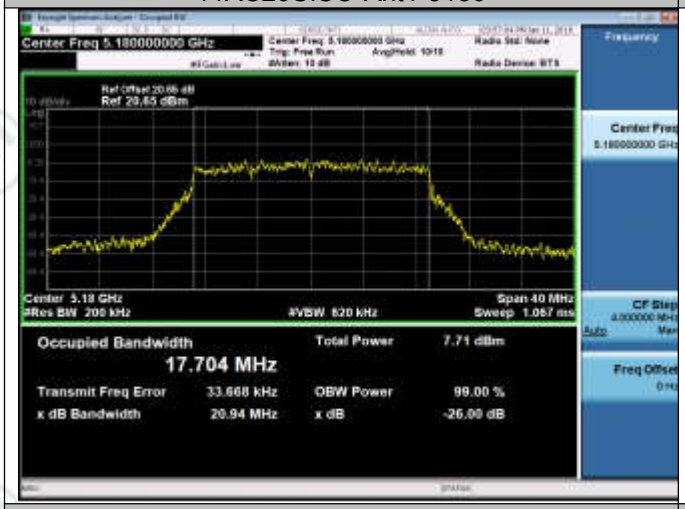
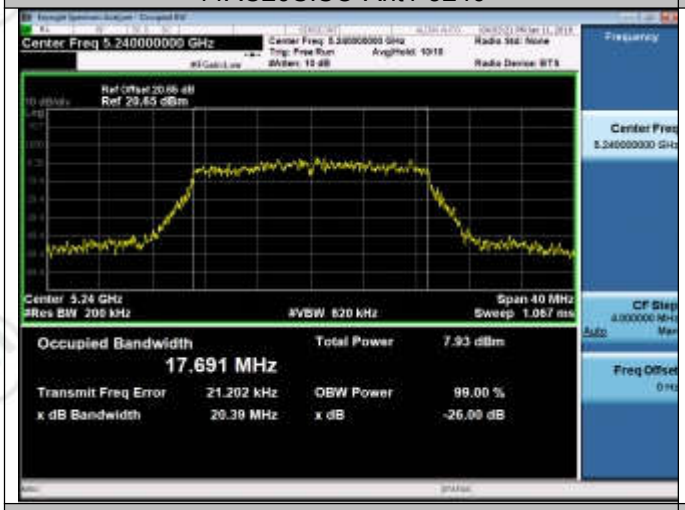
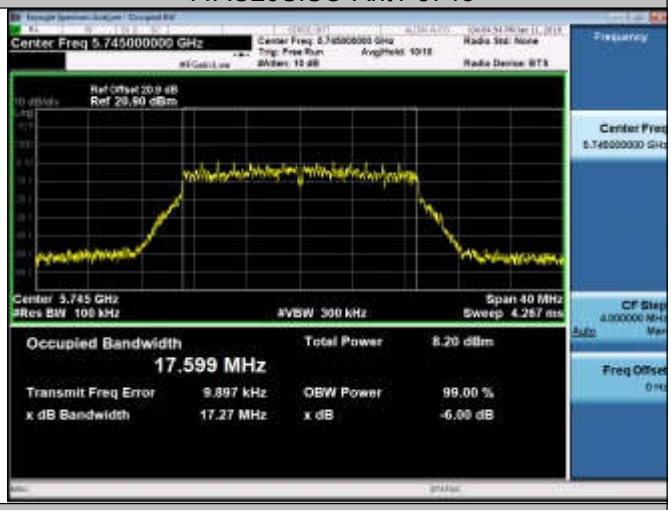
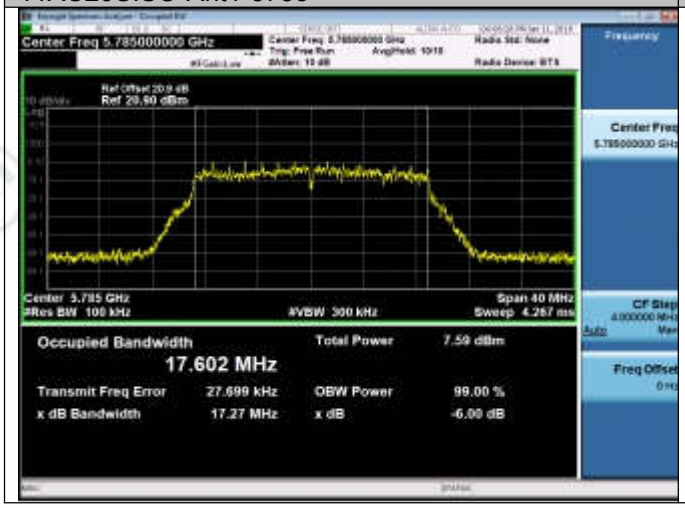
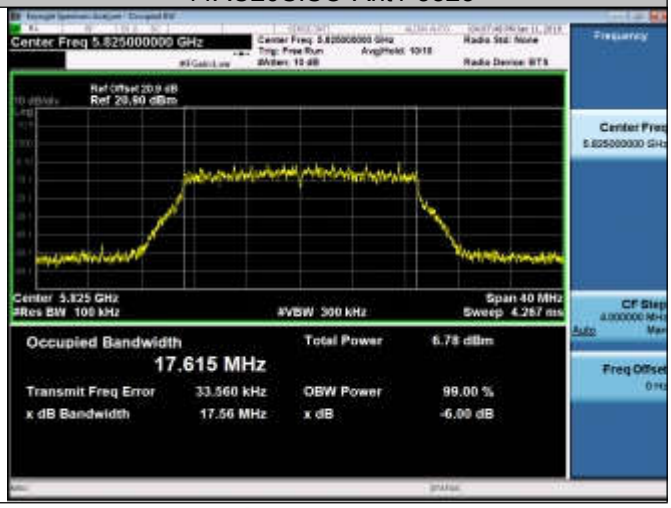
## Result Table

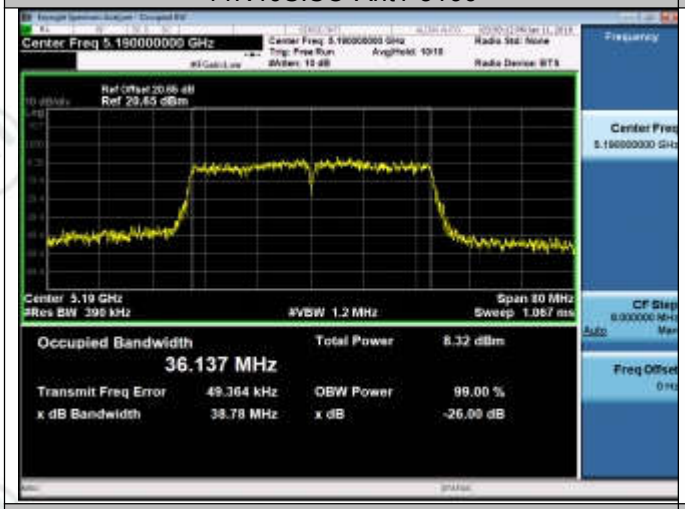
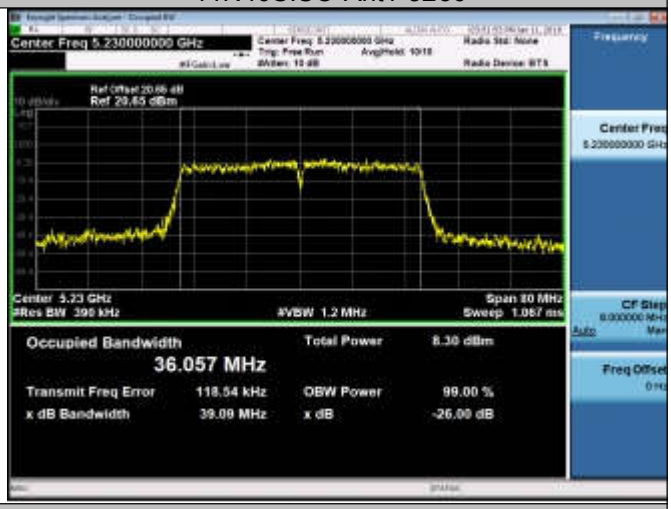
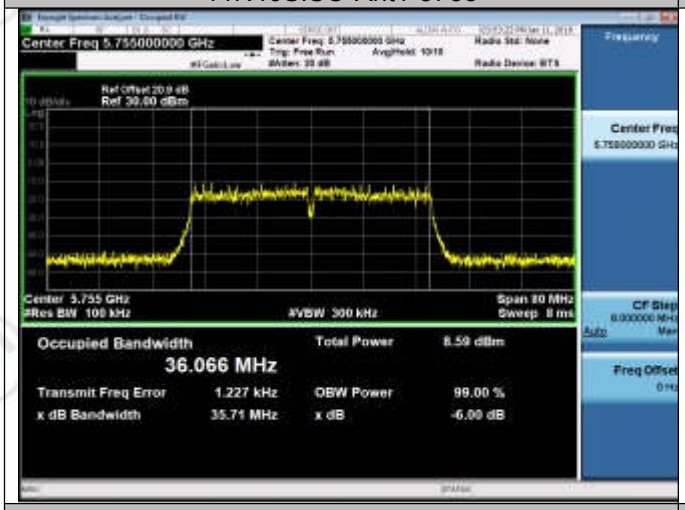
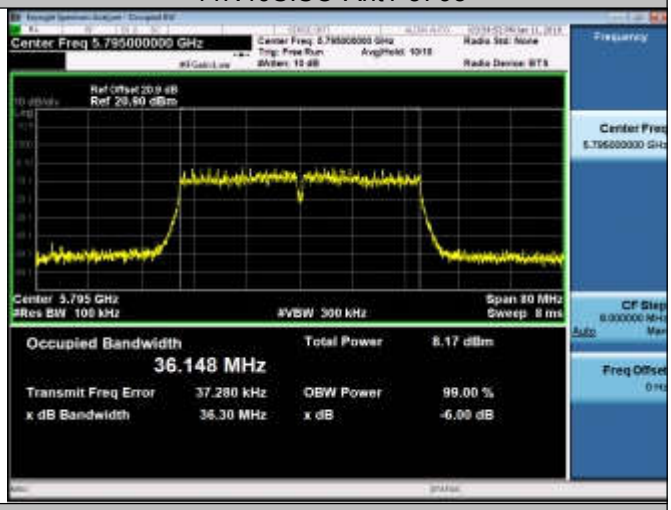
| Test Mode | Antenna | Channel | EBW[MHz] | OBW[MHz] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 20.53 | 16.452 | PASS |
| 11A | Ant1 | 5200 | 20.09 | 16.415 | PASS |
| 11A | Ant1 | 5240 | 20.28 | 16.449 | PASS |
| 11A | Ant1 | 5745 | 16.35 | 16.378 | PASS |
| 11A | Ant1 | 5785 | 15.79 | 16.382 | PASS |
| 11A | Ant1 | 5825 | 15.79 | 16.365 | PASS |
| 11N20SISO | Ant1 | 5180 | 20.58 | 16.422 | PASS |
| 11N20SISO | Ant1 | 5200 | 19.87 | 16.396 | PASS |
| 11N20SISO | Ant1 | 5240 | 20.36 | 16.457 | PASS |
| 11N20SISO | Ant1 | 5745 | 16.27 | 16.376 | PASS |
| 11N20SISO | Ant1 | 5785 | 15.79 | 16.358 | PASS |
| 11N20SISO | Ant1 | 5825 | 16.29 | 16.364 | PASS |
| 11AC20SISO | Ant1 | 5180 | 20.94 | 17.704 | PASS |
| 11AC20SISO | Ant1 | 5200 | 20.62 | 17.659 | PASS |
| 11AC20SISO | Ant1 | 5240 | 20.39 | 17.691 | PASS |
| 11AC20SISO | Ant1 | 5745 | 17.27 | 17.599 | PASS |
| 11AC20SISO | Ant1 | 5785 | 17.27 | 17.602 | PASS |
| 11AC20SISO | Ant1 | 5825 | 17.56 | 17.615 | PASS |
| 11N40SISO | Ant1 | 5190 | 38.78 | 36.137 | PASS |
| 11N40SISO | Ant1 | 5230 | 39.09 | 36.057 | PASS |
| 11N40SISO | Ant1 | 5755 | 35.71 | 36.066 | PASS |
| 11N40SISO | Ant1 | 5795 | 36.30 | 36.148 | PASS |
| 11AC40SISO | Ant1 | 5190 | 39.07 | 36.152 | PASS |
| 11AC40SISO | Ant1 | 5230 | 39.70 | 36.253 | PASS |
| 11AC40SISO | Ant1 | 5755 | 35.90 | 36.137 | PASS |
| 11AC40SISO | Ant1 | 5795 | 36.09 | 36.142 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **EBW[MHz]** | **OBW[MHz]** | **Verdict** |
| 11AC80SISO | Ant1 | 5210 | 80.44 | 75.449 | PASS |
| 11AC80SISO | Ant1 | 5775 | 75.14 | 75.339 | PASS |

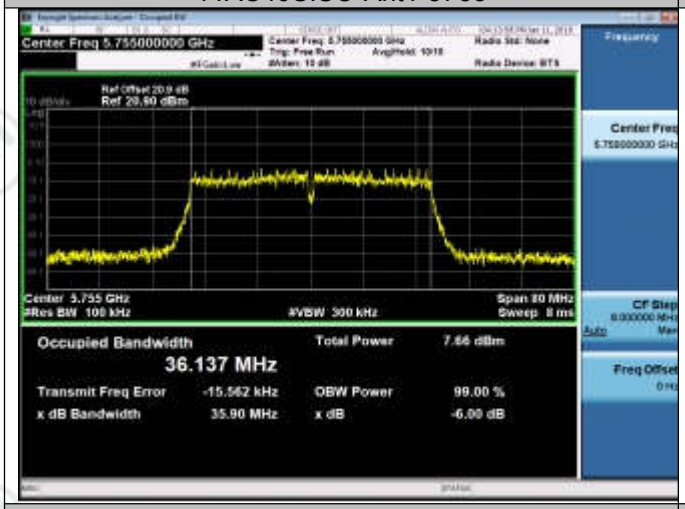
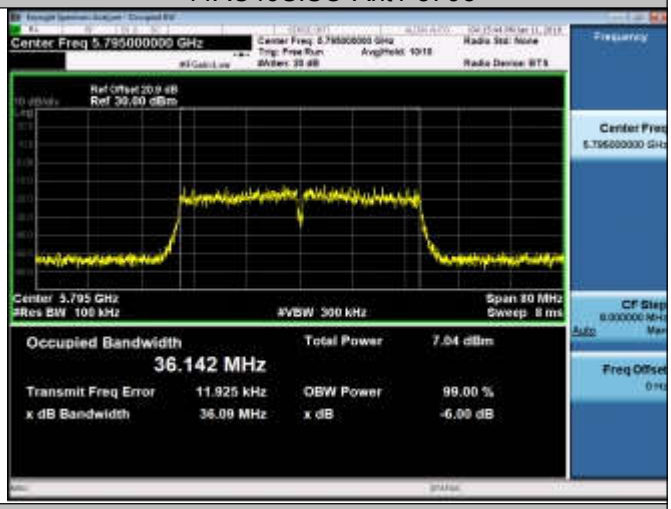
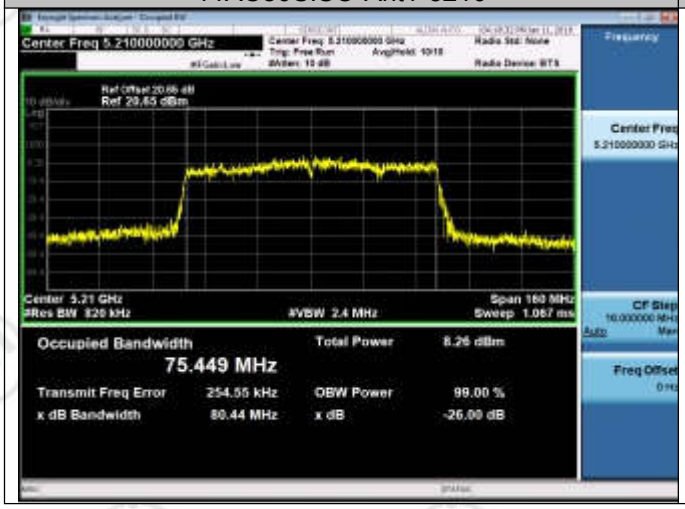
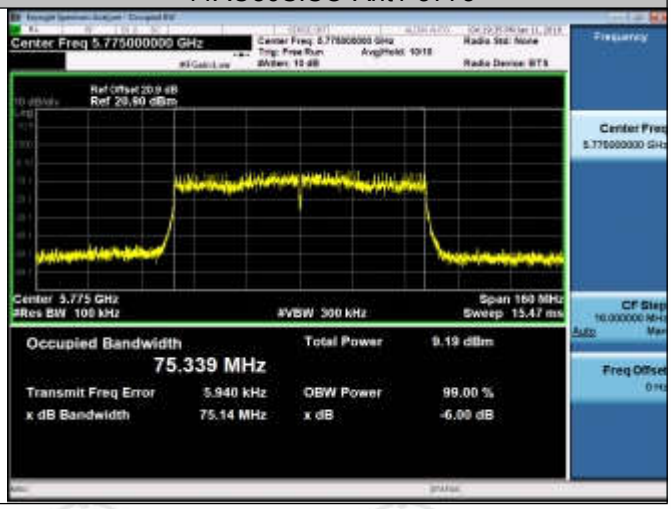
**Test Graph**

| 11A-Ant1-5180 | 11A-Ant1-5200 |
|---|---|
|  |  |
| 11A-Ant1-5240 | 11A-Ant1-5745 |
|  |  |
| 11A-Ant1-5785 | 11A-Ant1-5825 |
|  |  |

| 11N20SISO-Ant1-5180 | 11N20SISO-Ant1-5200 |
|---|---|
|  |  |
| 11N20SISO-Ant1-5240 | 11N20SISO-Ant1-5745 |
|  |  |
| 11N20SISO-Ant1-5785 | 11N20SISO-Ant1-5825 |
|  |  |

| 11AC20SISO-Ant1-5180 | 11AC20SISO-Ant1-5200 |
|---|---|
|  |  |
| 11AC20SISO-Ant1-5240 | 11AC20SISO-Ant1-5745 |
|  |  |
| 11AC20SISO-Ant1-5785 | 11AC20SISO-Ant1-5825 |
|  |  |

| 11N40SISO-Ant1-5190 | 11N40SISO-Ant1-5230 |
|---|---|
|  |  |
| 11N40SISO-Ant1-5755 | 11N40SISO-Ant1-5795 |
|  |  |
| 11AC40SISO-Ant1-5190 | 11AC40SISO-Ant1-5230 |
|  |  |

| 11AC40SISO-Ant1-5755 | 11AC40SISO-Ant1-5795 |
|---|---|
|  |  |
| 11AC80SISO-Ant1-5210 | 11AC80SISO-Ant1-5775 |
|  |  |

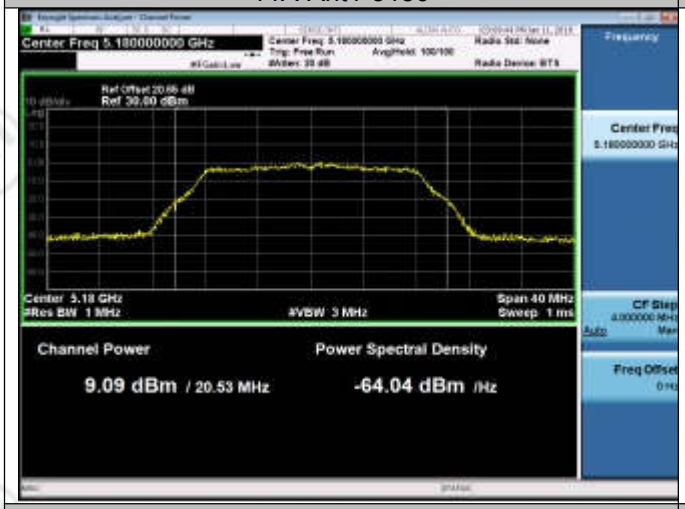
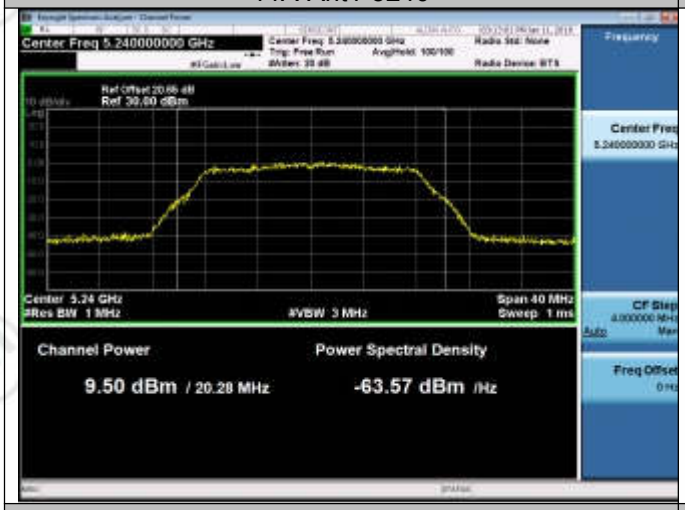
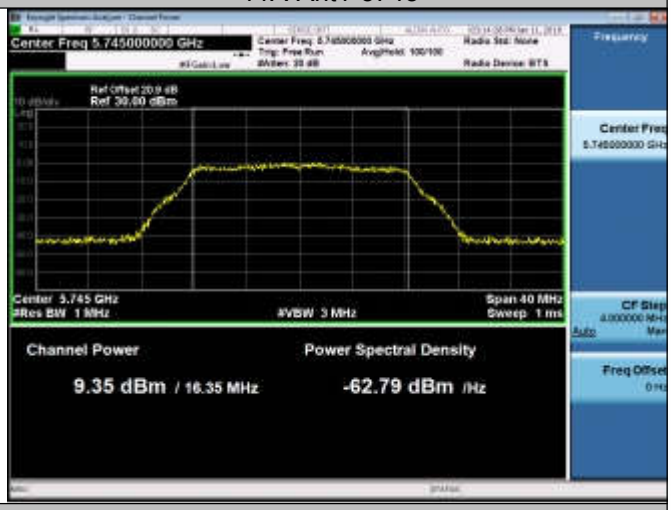
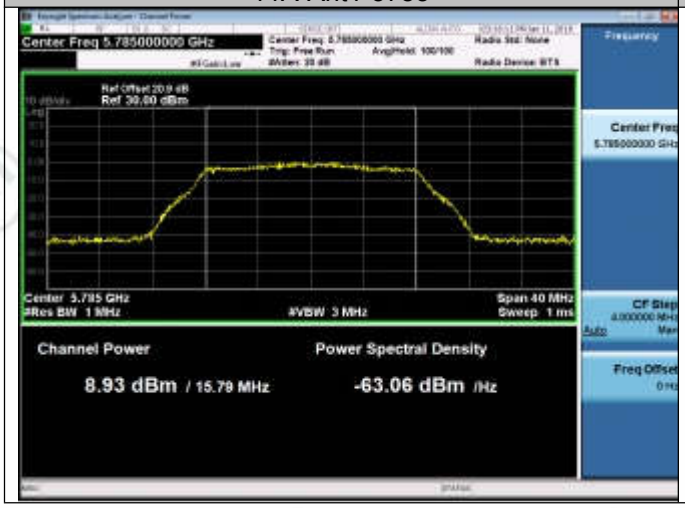
# Appendix C): Maximum Conduct Output Power

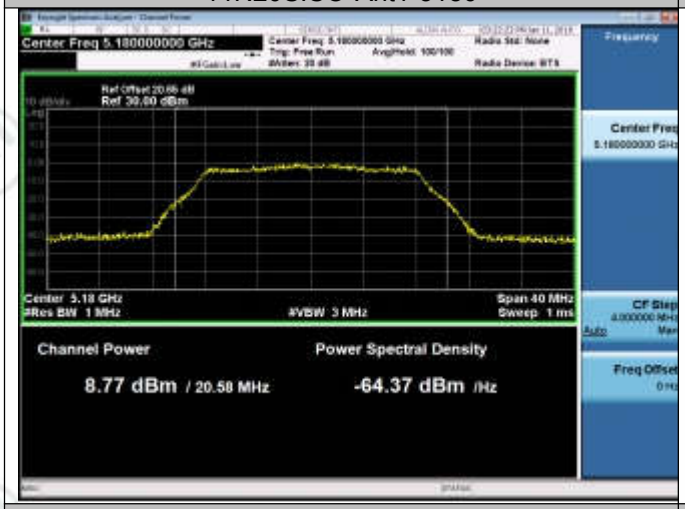
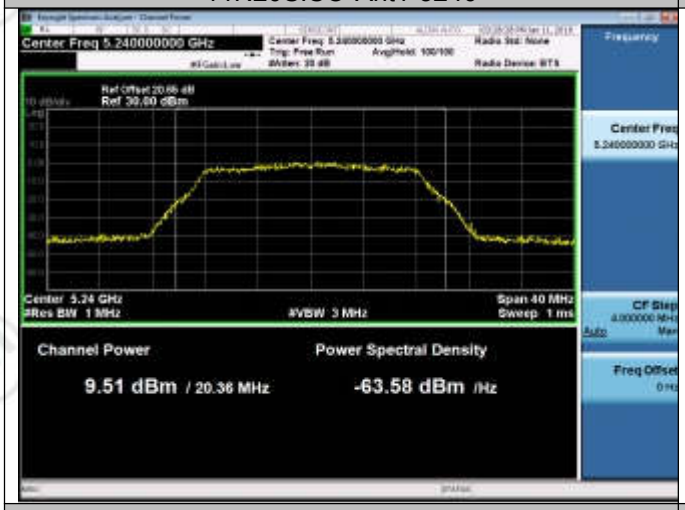
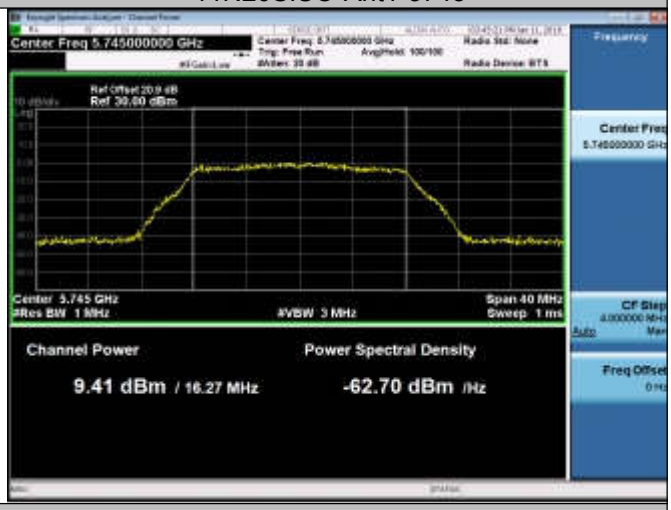
**Result Table**

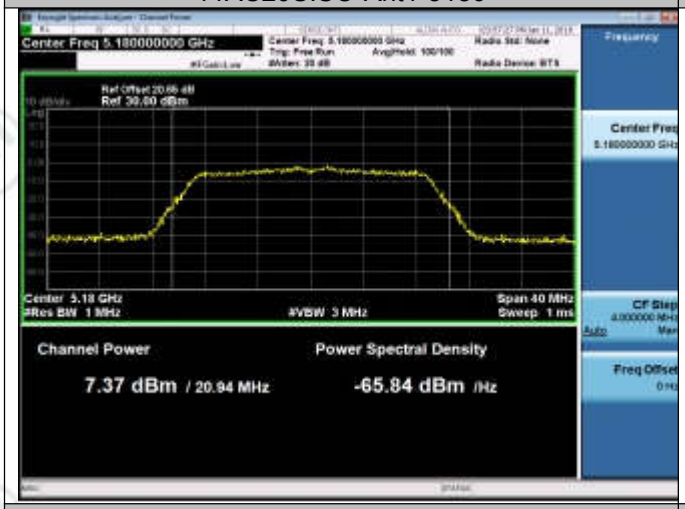
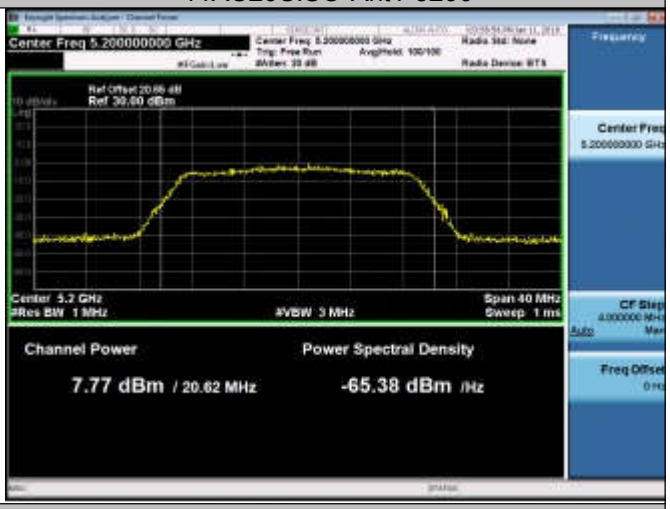
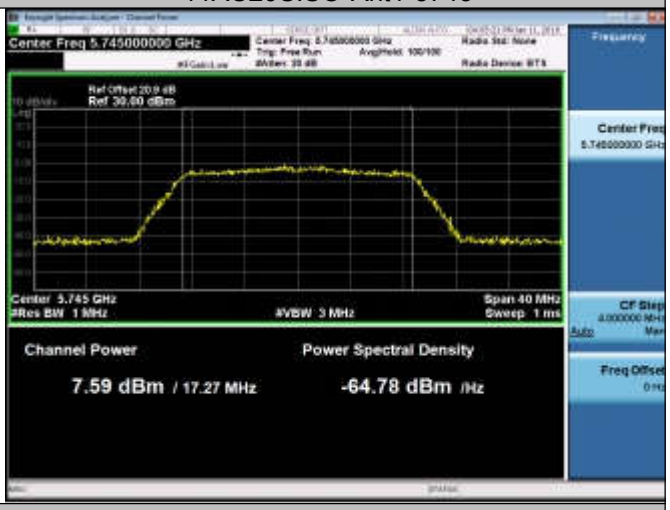
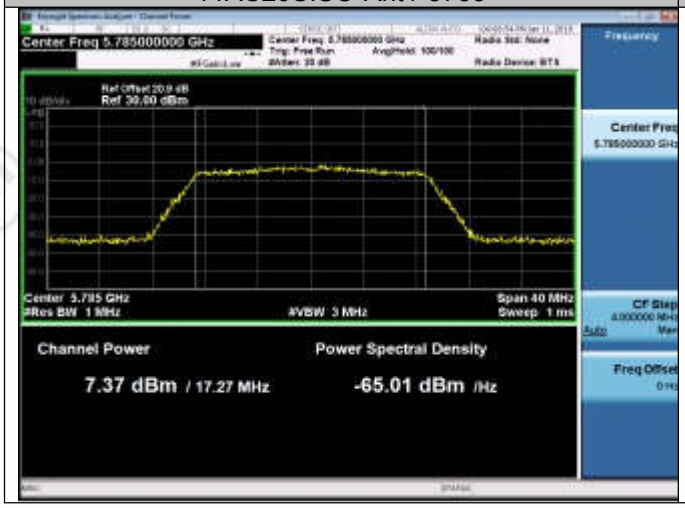
| Test Mode | Antenna | Channel | Meas.Level [dBm] | Av.Power [dBm] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 9.09 | 9.68 | PASS |
| 11A | Ant1 | 5200 | 9.27 | 9.86 | PASS |
| 11A | Ant1 | 5240 | 9.5 | 10.14 | PASS |
| 11A | Ant1 | 5745 | 9.35 | 9.99 | PASS |
| 11A | Ant1 | 5785 | 8.93 | 9.57 | PASS |
| 11A | Ant1 | 5825 | 8.15 | 8.74 | PASS |
| 11N20SISO | Ant1 | 5180 | 8.77 | 9.36 | PASS |
| 11N20SISO | Ant1 | 5200 | 9.54 | 10.18 | PASS |
| 11N20SISO | Ant1 | 5240 | 9.51 | 10.1 | PASS |
| 11N20SISO | Ant1 | 5745 | 9.41 | 10.04 | PASS |
| 11N20SISO | Ant1 | 5785 | 8.97 | 9.56 | PASS |
| 11N20SISO | Ant1 | 5825 | 8.06 | 8.65 | PASS |
| 11AC20SISO | Ant1 | 5180 | 7.37 | 8 | PASS |
| 11AC20SISO | Ant1 | 5200 | 7.77 | 8.4 | PASS |
| 11AC20SISO | Ant1 | 5240 | 7.89 | 8.57 | PASS |
| 11AC20SISO | Ant1 | 5745 | 7.59 | 8.22 | PASS |
| 11AC20SISO | Ant1 | 5785 | 7.37 | 8.05 | PASS |
| 11AC20SISO | Ant1 | 5825 | 6.42 | 7.1 | PASS |
| 11N40SISO | Ant1 | 5190 | 8.25 | 8.91 | PASS |
| 11N40SISO | Ant1 | 5230 | 8.43 | 9.09 | PASS |
| 11N40SISO | Ant1 | 5755 | 8.51 | 9.23 | PASS |
| 11N40SISO | Ant1 | 5795 | 7.94 | 8.66 | PASS |
| 11AC40SISO | Ant1 | 5190 | 7.85 | 8.58 | PASS |
| 11AC40SISO | Ant1 | 5230 | 7.85 | 8.58 | PASS |
| 11AC40SISO | Ant1 | 5755 | 7.19 | 7.92 | PASS |
| 11AC40SISO | Ant1 | 5795 | 7.16 | 7.95 | PASS |
| 11AC80SISO | Ant1 | 5210 | 2.52 | 3.74 | PASS |
| 11AC80SISO | Ant1 | 5775 | 2.96 | 4.18 | PASS |

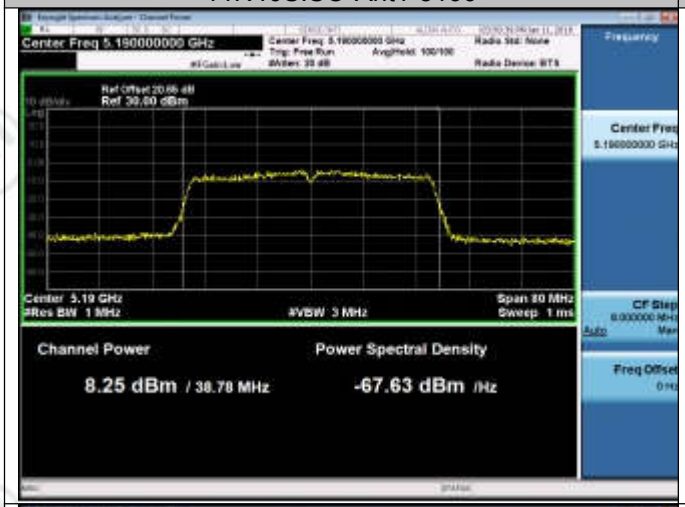
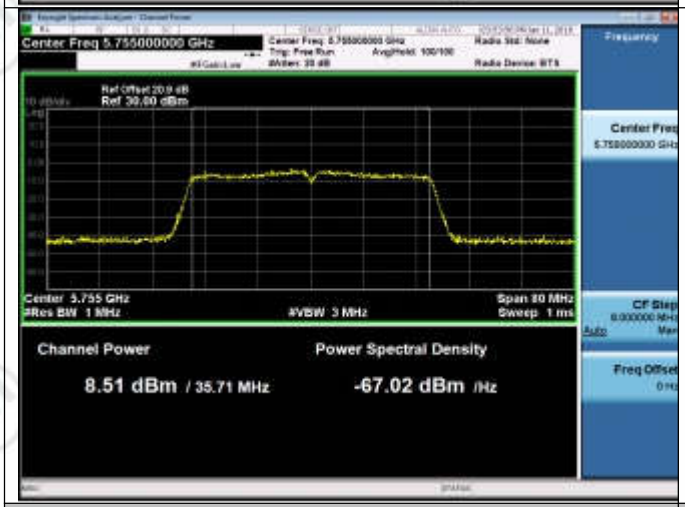
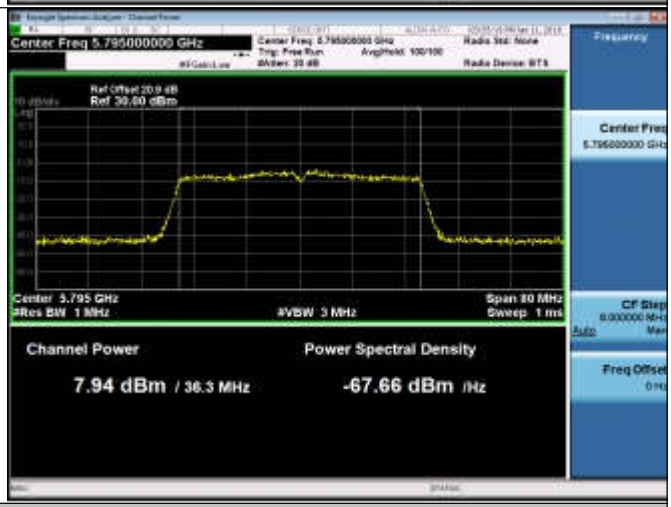
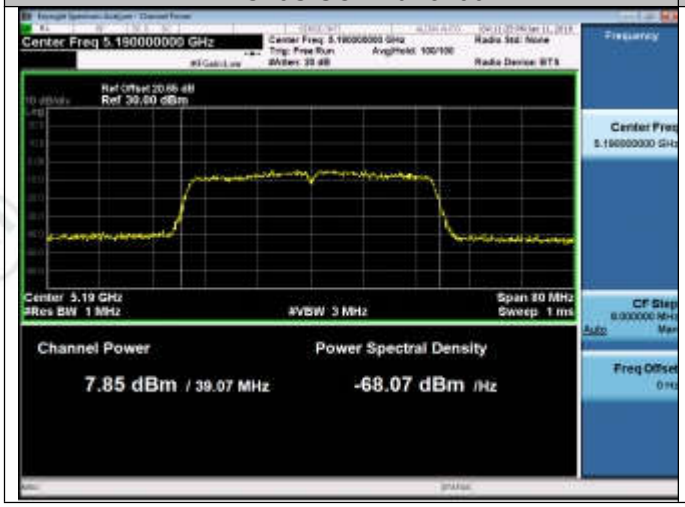
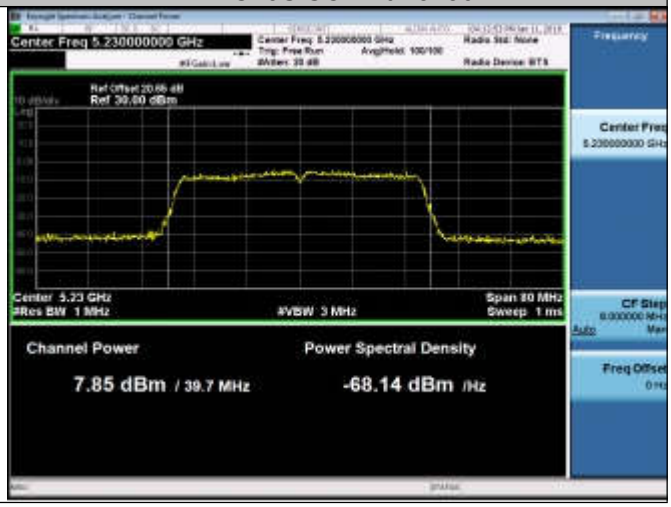
Remark:
1. According KDB789033 D02, If continuous transmission cannot be achieved the 10 log (1/duty cycle) should be add.
Av.Power=Meas.Level+10 log (1/duty cycle)
E.i.r.p=Av.Power+G, G = antenna gain in dBi.
2. Duty Cycle value in report Appendix A, Meas.Level value in report Appendix C,
For band 1, MCS0 mode, 802.11a channel 36:5180MHz, Duty Cycle value is 87.27%=0.8727, Meas.Level value is 9.09dBm, Av.Power=9.09+10 log (1/0.8727) =9.68dBm. E.i.r.p=9.68+4.43=14.11dBm.

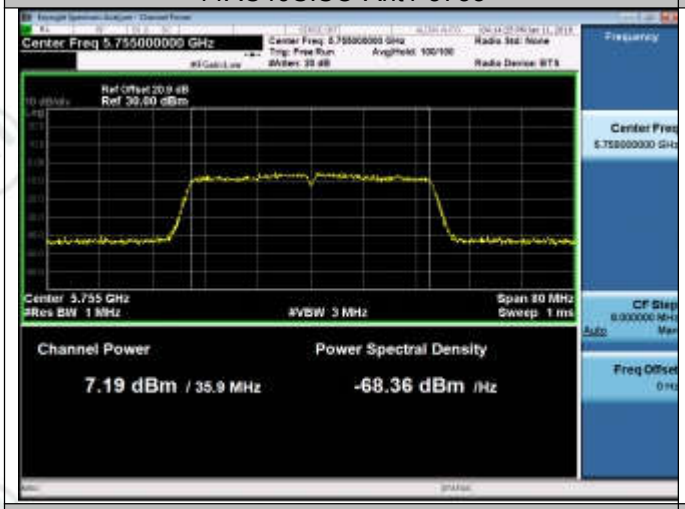
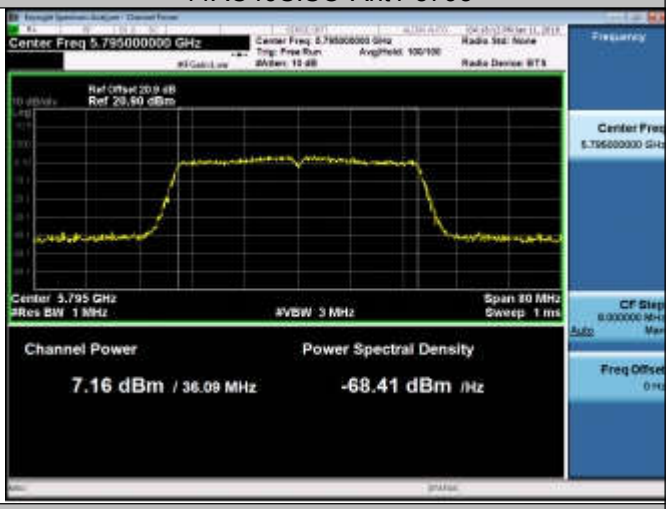
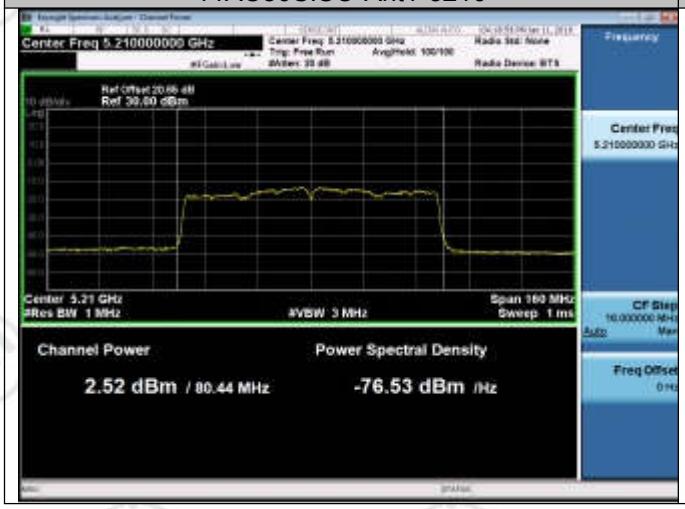
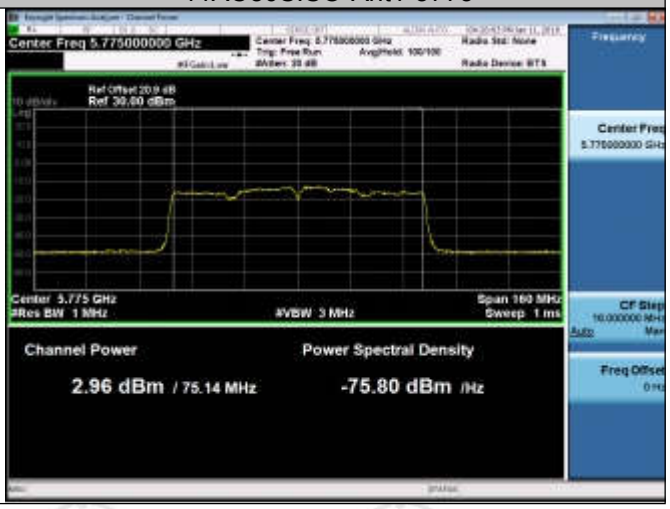
**Test Graph**

| 11A-Ant1-5180 | 11A-Ant1-5200 |
|---|---|
|  |  |
| 11A-Ant1-5240 | 11A-Ant1-5745 |
|  |  |
| 11A-Ant1-5785 | 11A-Ant1-5825 |
|  |  |

| 11N20SISO-Ant1-5180 | 11N20SISO-Ant1-5200 |
|---|---|
|  |  |
| 11N20SISO-Ant1-5240 | 11N20SISO-Ant1-5745 |
|  |  |
| 11N20SISO-Ant1-5785 | 11N20SISO-Ant1-5825 |
|  |  |

| 11AC20SISO-Ant1-5180 | 11AC20SISO-Ant1-5200 |
|---|---|
|  |  |
| 11AC20SISO-Ant1-5240 | 11AC20SISO-Ant1-5745 |
|  |  |
| 11AC20SISO-Ant1-5785 | 11AC20SISO-Ant1-5825 |
|  |  |

| 11N40SISO-Ant1-5190 | 11N40SISO-Ant1-5230 |
|---|---|
|  |  |
|  |  |
| 11AC40SISO-Ant1-5190 | 11AC40SISO-Ant1-5230 |
|  |  |

| 11AC40SISO-Ant1-5755 | 11AC40SISO-Ant1-5795 |
|---|---|
|  |  |
| 11AC80SISO-Ant1-5210 | 11AC80SISO-Ant1-5775 |
|  |  |

# Appendix D): Power Spectral Density

**Result Table**

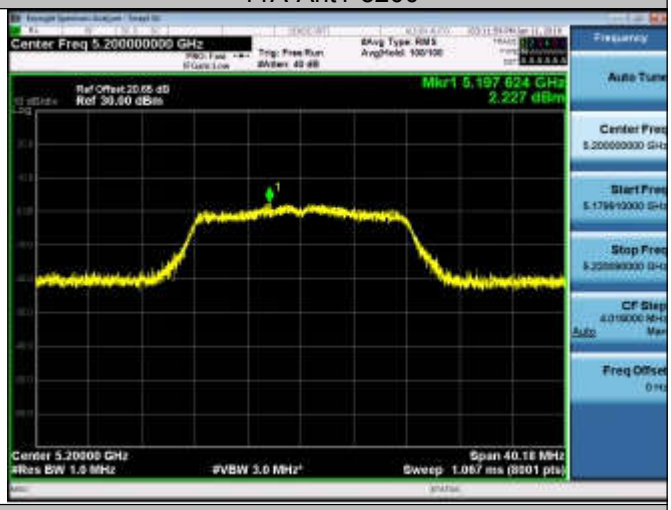
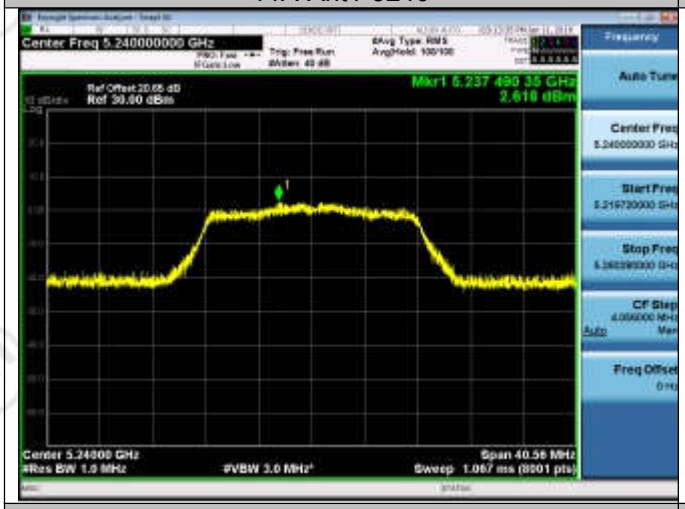
| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 2.28 | 2.87 | PASS |
| 11A | Ant1 | 5200 | 2.23 | 2.82 | PASS |
| 11A | Ant1 | 5240 | 2.62 | 3.26 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11A | Ant1 | 5745 | -0.44 | 0.20 | PASS |
| 11A | Ant1 | 5785 | -0.90 | -0.26 | PASS |
| 11A | Ant1 | 5825 | -1.29 | -0.70 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/MHz]** | **Verdict** |
| 11N20SISO | Ant1 | 5180 | 1.83 | 2.42 | PASS |
| 11N20SISO | Ant1 | 5200 | 2.58 | 3.21 | PASS |
| 11N20SISO | Ant1 | 5240 | 2.38 | 2.97 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11N20SISO | Ant1 | 5745 | -0.63 | 0.00 | PASS |
| 11N20SISO | Ant1 | 5785 | -1.10 | -0.51 | PASS |
| 11N20SISO | Ant1 | 5825 | -1.84 | -1.24 | PASS |

| Test Mode | Antenna | Channel | Meas.Level [dBm] | PSD [dBm/MHz] | Verdict |
|---|---|---|---|---|---|
| 11N40SISO | Ant1 | 5190 | -0.82 | -0.16 | PASS |
| 11N40SISO | Ant1 | 5230 | -1.15 | -0.49 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11N40SISO | Ant1 | 5755 | -4.53 | -3.81 | PASS |
| 11N40SISO | Ant1 | 5795 | -4.33 | -3.61 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/MHz]** | **Verdict** |
| 11AC20SISO | Ant1 | 5180 | 1.08 | 1.70 | PASS |
| 11AC20SISO | Ant1 | 5200 | 1.03 | 1.66 | PASS |
| 11AC20SISO | Ant1 | 5240 | 0.95 | 1.63 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11AC20SISO | Ant1 | 5745 | -2.51 | -1.88 | PASS |

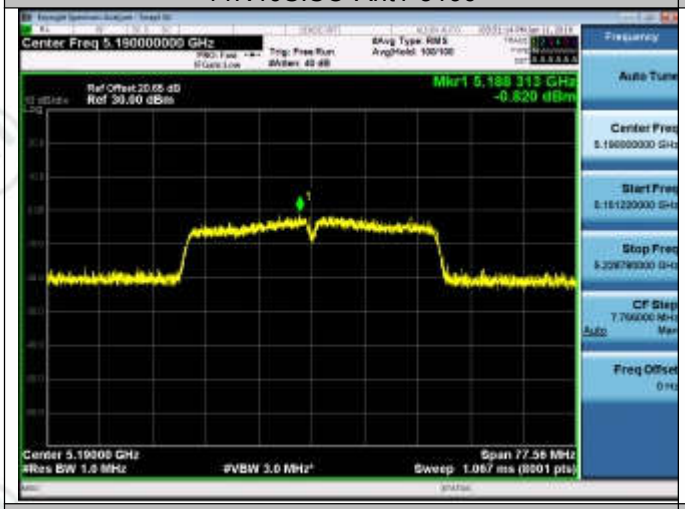
| | | | | | |
|---|---|---|---|---|---|
| 11AC20SISO | Ant1 | 5785 | -1.79 | -1.12 | PASS |
| 11AC20SISO | Ant1 | 5825 | -2.36 | -1.69 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/MHz]** | **Verdict** |
| 11AC40SISO | Ant1 | 5190 | -1.64 | -0.91 | PASS |
| 11AC40SISO | Ant1 | 5230 | -1.62 | -0.89 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11AC40SISO | Ant1 | 5755 | -5.44 | -4.71 | PASS |
| 11AC40SISO | Ant1 | 5795 | -5.05 | -4.26 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/MHz]** | **Verdict** |
| 11AC80SISO | Ant1 | 5210 | -4.93 | -3.71 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Meas.Level [dBm]** | **PSD [dBm/500kHz]** | **Verdict** |
| 11AC80SISO | Ant1 | 5775 | -6.12 | -4.90 | PASS |

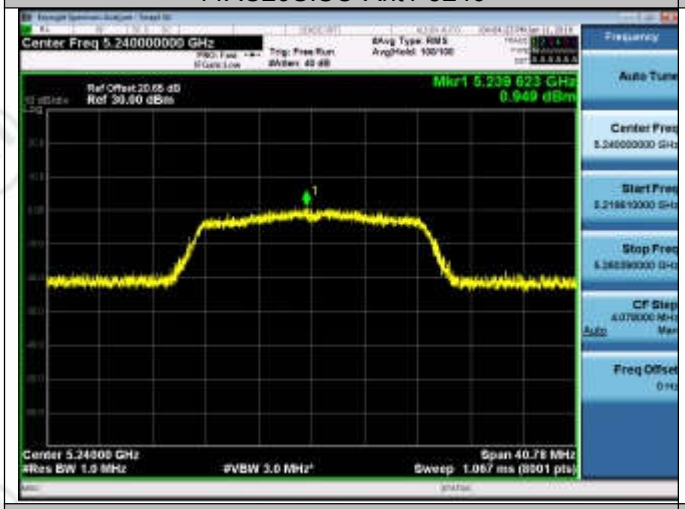
Remark:
1. According KDB789033 D02, If continuous transmission cannot be achieved the 10 log (1/duty cycle) should be add.
PSD=Meas.Level+10 log (1/duty cycle)
E.i.r.p spectral density=PSD+G, G = antenna gain in dBi.
2. Duty Cycle value in report Appendix A, Meas.Level value in report Appendix D,
For band 1, MCS0 mode, 802.11a channel 36:5180MHz, Duty Cycle value is 87.27%=0.8727, Meas.Level value is 2.28 in report Appendix D, PSD=2.28+10 log (1/0.8727) =2.87
E.i.r.p spectral density=2.87+4.43=7.3.

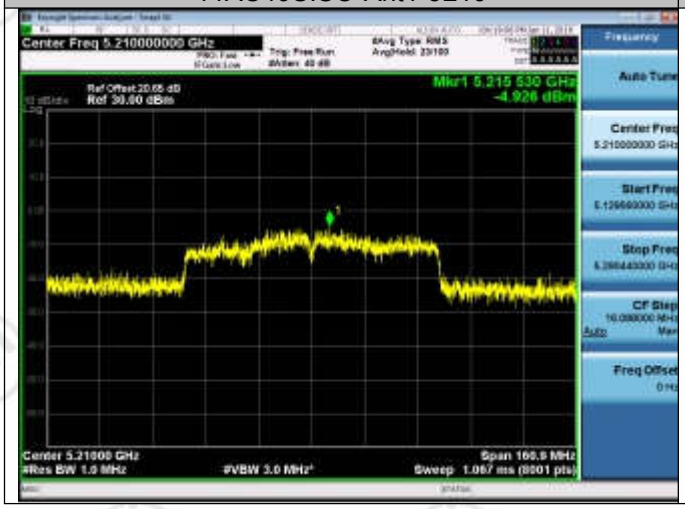
**Test Graph**

| 11A-Ant1-5180 | 11A-Ant1-5200 |
|---|---|
|  |  |
| 11A-Ant1-5240 | 11A-Ant1-5745 |
|  |  |
| 11A-Ant1-5785 | 11A-Ant1-5825 |
|  |  |

| 11N20SISO-Ant1-5180 | 11N20SISO-Ant1-5200 |
|---|---|
|  |  |
| 11N20SISO-Ant1-5240 | 11N20SISO-Ant1-5745 |
|  |  |
| 11N20SISO-Ant1-5785 | 11N20SISO-Ant1-5825 |
|  |  |

| 11N40SISO-Ant1-5190 | 11N40SISO-Ant1-5230 |
|---|---|
|  |  |
| 11N40SISO-Ant1-5755 | 11N40SISO-Ant1-5795 |
|  |  |
| 11AC20SISO-Ant1-5180 | 11AC20SISO-Ant1-5200 |
|  |  |

| 11AC20SISO-Ant1-5240 | 11AC20SISO-Ant1-5745 |
|---|---|
|  |  |
| 11AC20SISO-Ant1-5785 | 11AC20SISO-Ant1-5825 |
|  |  |
| 11AC40SISO-Ant1-5190 | 11AC40SISO-Ant1-5230 |
|  |  |

| 11AC40SISO-Ant1-5755 | 11AC40SISO-Ant1-5795 |
|---|---|
|  |  |
| 11AC40SISO-Ant1-5210 | 11AC40SISO-Ant1-5775 |
|  |  |

# Appendix E): Band Edge Measurements

**Result Table**

| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | -46.996 | | PASS |
| 11A | Ant1 | 5240 | -47.758 | | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **Below 5715** | **5715-5725** | |
| 11A | Ant1 | 5745 | -48.291 | -47.488 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **5850-5860** | **Above 5860** | |
| 11A | Ant1 | 5825 | -47.967 | -48.367 | PASS |

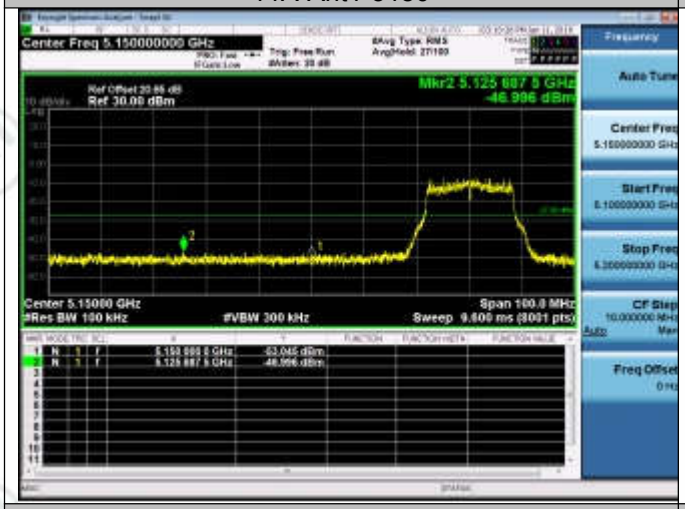
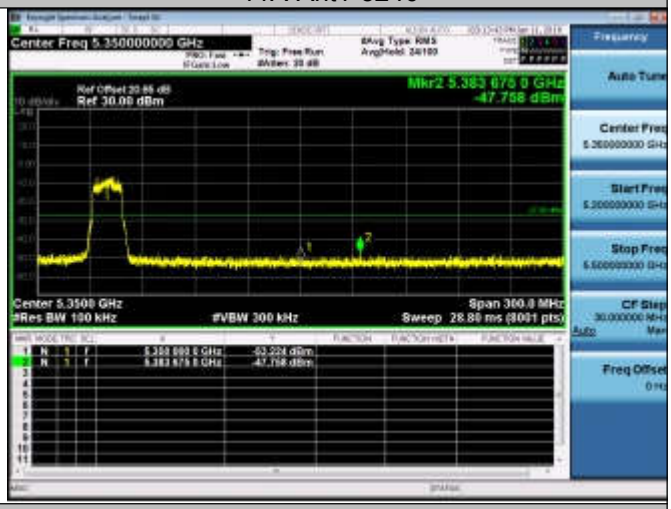
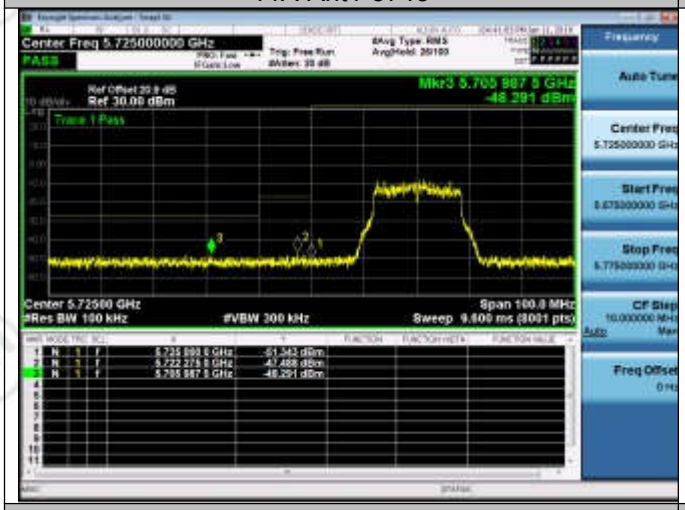
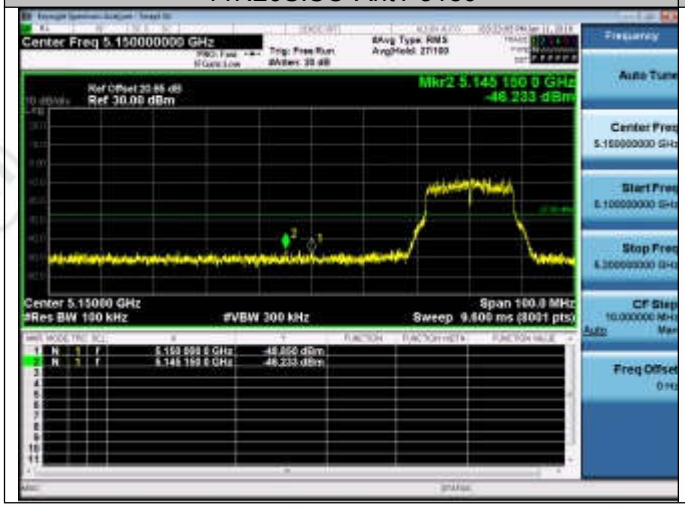
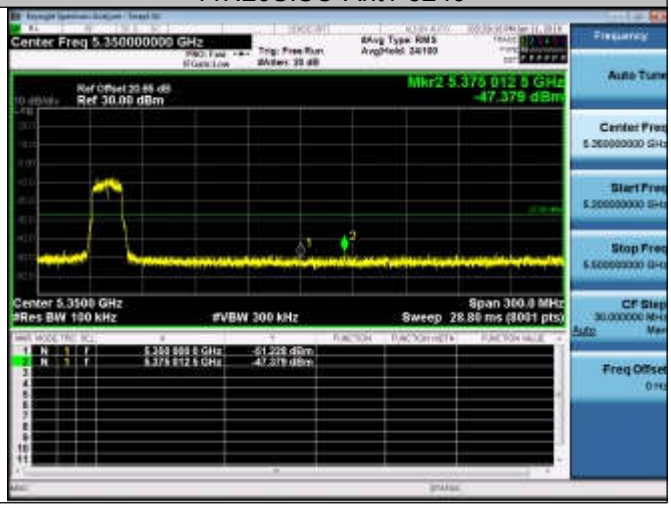
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
|---|---|---|---|---|---|
| 11N20SISO | Ant1 | 5180 | -46.233 | | PASS |
| 11N20SISO | Ant1 | 5240 | -47.379 | | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **Below 5715** | **5715-5725** | |
| 11N20SISO | Ant1 | 5745 | -48.085 | -48.826 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **5850-5860** | **Above 5860** | |
| 11N20SISO | Ant1 | 5825 | -47.287 | -47.469 | PASS |

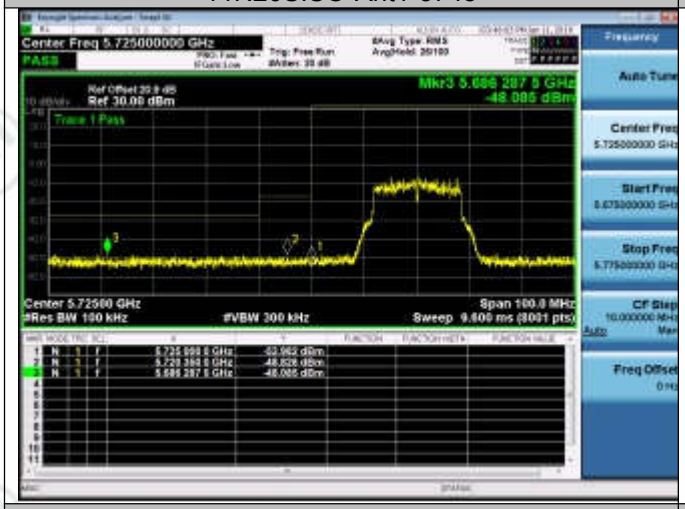
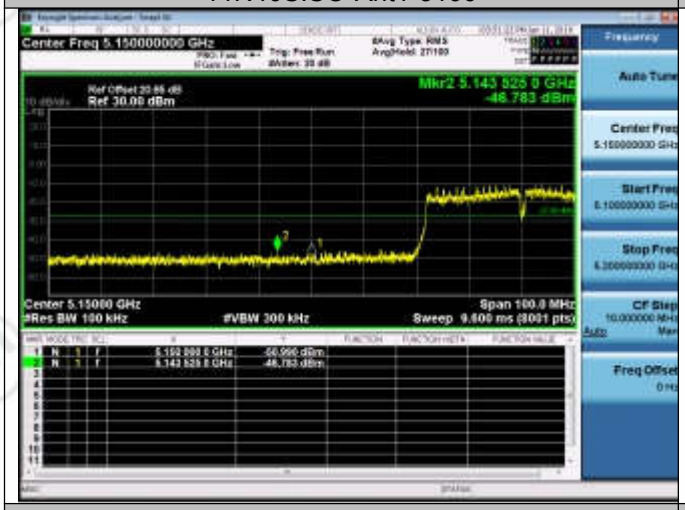
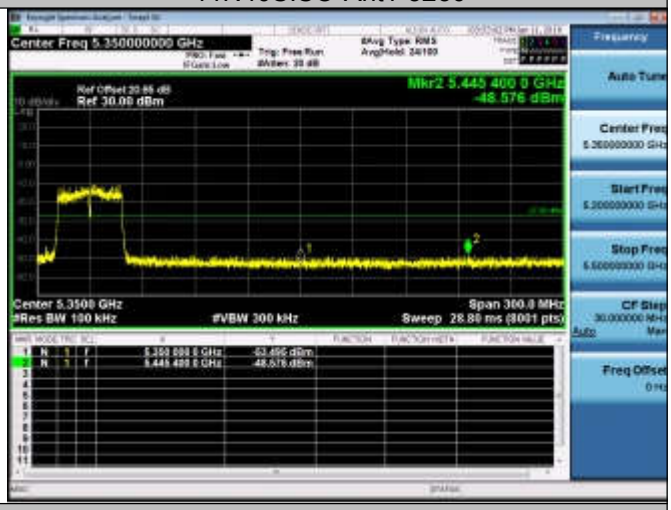
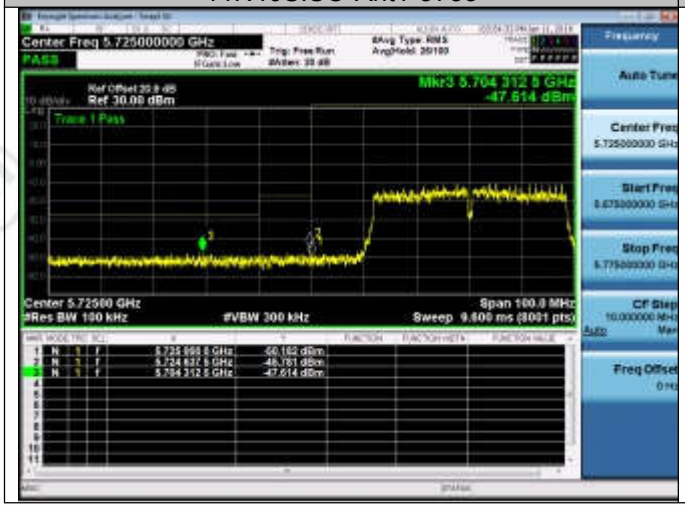
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
|---|---|---|---|---|---|
| 11N40SISO | Ant1 | 5190 | -50.99 | | PASS |
| 11N40SISO | Ant1 | 5230 | -53.495 | | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **Below 5715** | **5715-5725** | |
| 11N40SISO | Ant1 | 5755 | -47.614 | -45.781 | PASS |
| **Test Mode** | **Antenna** | **Channel** | **Max.Level [dBm]** | | **Verdict** |
| | | | **5850-5860** | **Above 5860** | |
| 11N40SISO | Ant1 | 5795 | -48.154 | -47.929 | PASS |

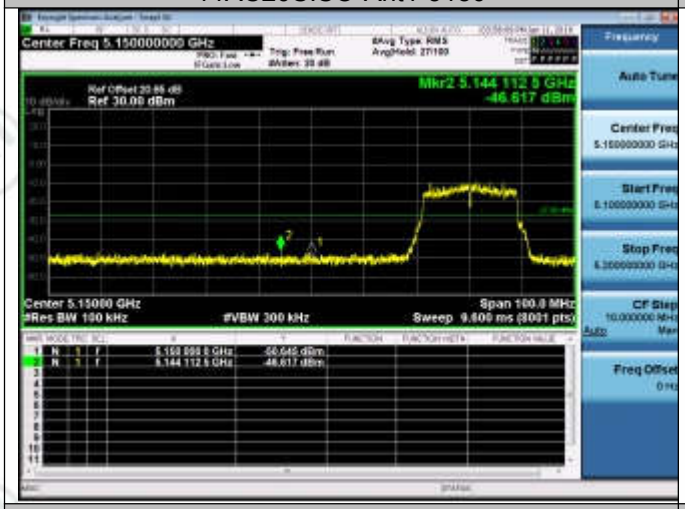
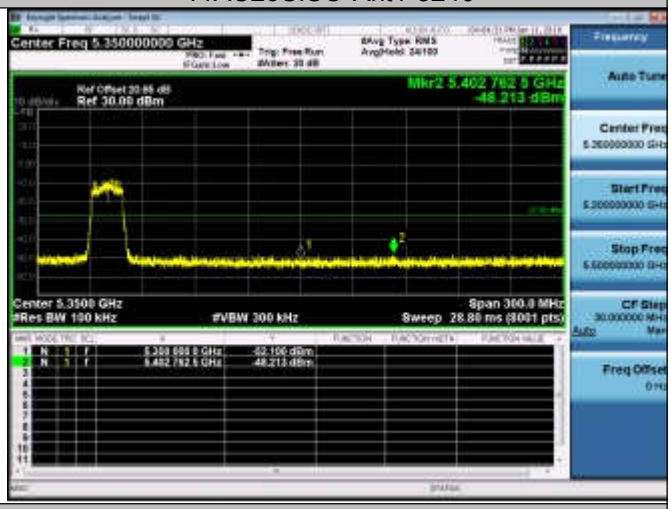
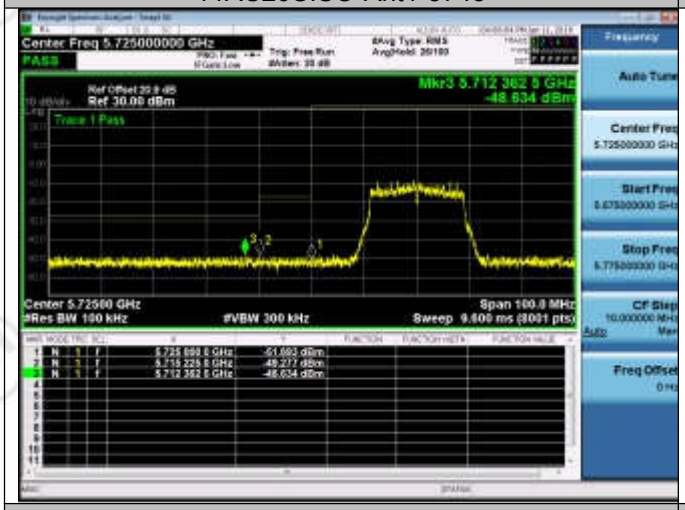
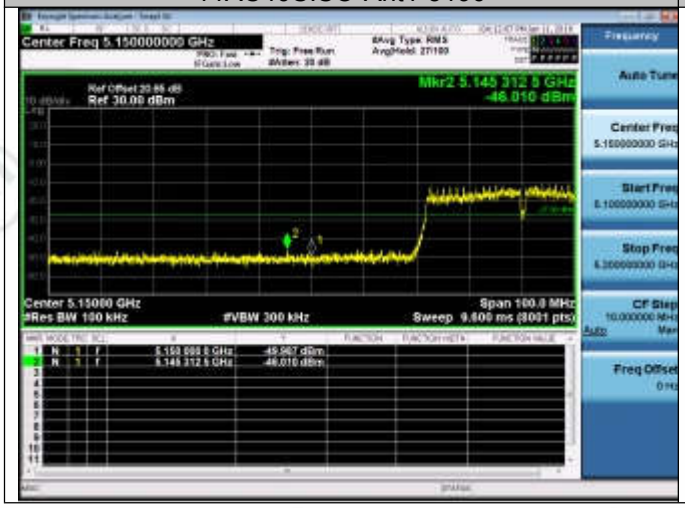
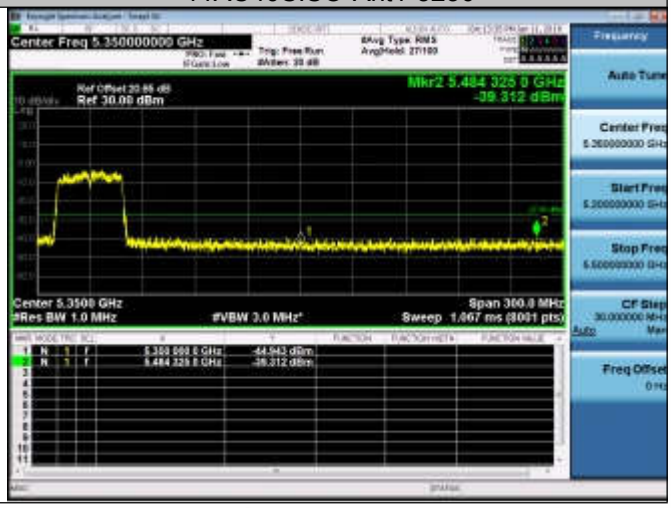
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
|---|---|---|---|---|---|
| 11AC20SISO | Ant1 | 5180 | -46.617 | | PASS |
| 11AC20SISO | Ant1 | 5240 | -48.213 | | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| | | | Below 5715 | 5715-5725 | |
| 11AC20SISO | Ant1 | 5745 | -48.634 | -49.277 | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| | | | 5850-5860 | Above 5860 | |
| 11AC20SISO | Ant1 | 5825 | -47.711 | -47.428 | PASS |

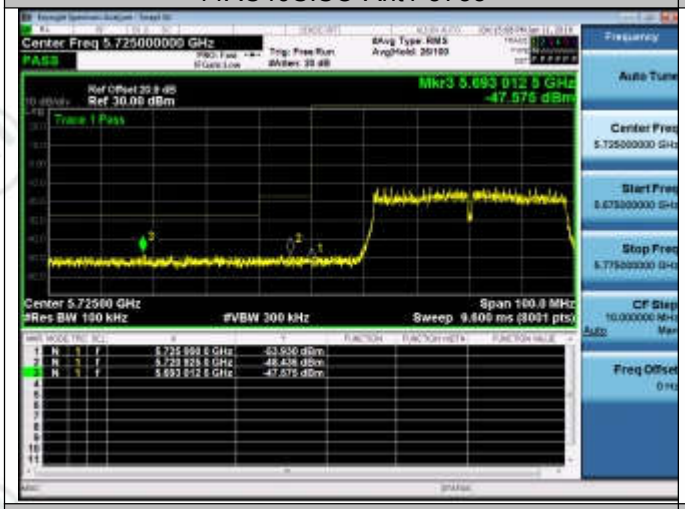
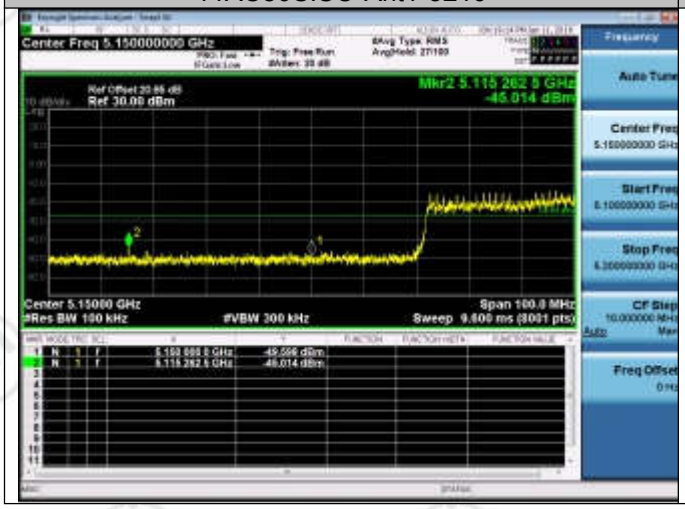
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
|---|---|---|---|---|---|
| 11AC40SISO | Ant1 | 5190 | -49.987 | | PASS |
| 11AC40SISO | Ant1 | 5230 | -44.943 | | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| | | | Below 5715 | 5715-5725 | |
| 11AC40SISO | Ant1 | 5755 | -47.575 | -48.436 | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| | | | 5850-5860 | Above 5860 | |
| 11AC40SISO | Ant1 | 5795 | -48.902 | -47.666 | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| 11AC80SISO | Ant1 | 5210 | -49.598 | | PASS |
| Test Mode | Antenna | Channel | Max.Level [dBm] | | Verdict |
| | | | 5850-5860 | Above 5860 | |
| 11AC80SISO | Ant1 | 5775 | -48.124 | -47.755 | PASS |

**Test Graph**

| 11A-Ant1-5180 | 11A-Ant1-5240 |
|---|---|
|  |  |
| **11A-Ant1-5745** | **11A-Ant1-5825** |
|  |  |
| **11N20SISO-Ant1-5180** | **11N20SISO-Ant1-5240** |
|  |  |

| 11N20SISO-Ant1-5745 | 11N20SISO-Ant1-5825 |
| --- | --- |
|  |  |
| 11N40SISO-Ant1-5190 | 11N40SISO-Ant1-5230 |
|  |  |
| 11N40SISO-Ant1-5755 | 11N40SISO-Ant1-5795 |
|  |  |

| 11AC20SISO-Ant1-5180 | 11AC20SISO-Ant1-5240 |
| --- | --- |
|  |  |
| 11AC20SISO-Ant1-5745 | 11AC20SISO-Ant1-5825 |
|  |  |
| 11AC40SISO-Ant1-5190 | 11AC40SISO-Ant1-5230 |
|  |  |

| 11AC40SISO-Ant1-5755 | 11AC40SISO-Ant1-5795 |
| --- | --- |
|  |  |
| 11AC80SISO-Ant1-5210 | 11AC80SISO-Ant1-5775 |
|  |  |

# Appendix F): Frequency Stability

**Frequency Error vs. Voltage:**

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | TN | VL | 5180.02 | 3.861004 | PASS |
| | | | TN | VN | 5180.02 | 3.861004 | PASS |
| | | | TN | VH | 5180.04 | 7.722008 | PASS |
| 11A | Ant1 | 5200 | TN | VL | 5200.02 | 3.846154 | PASS |
| | | | TN | VN | 5200.06 | 11.538462 | PASS |
| | | | TN | VH | 5200.04 | 7.692308 | PASS |
| 11A | Ant1 | 5240 | TN | VL | 5240.04 | 7.633588 | PASS |
| | | | TN | VN | 5240.04 | 7.633588 | PASS |
| | | | TN | VH | 5240.08 | 15.267176 | PASS |
| 11A | Ant1 | 5745 | TN | VL | 5745.02 | 3.481288 | PASS |
| | | | TN | VN | 5745.04 | 6.962576 | PASS |
| | | | TN | VH | 5744.98 | -3.481288 | PASS |
| 11A | Ant1 | 5785 | TN | VL | 5785.02 | 3.457217 | PASS |
| | | | TN | VN | 5785.04 | 6.914434 | PASS |
| | | | TN | VH | 5785.02 | 3.457217 | PASS |
| 11A | Ant1 | 5825 | TN | VL | 5825.04 | 6.866953 | PASS |
| | | | TN | VN | 5825.04 | 6.866953 | PASS |
| | | | TN | VH | 5825.08 | 13.733906 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11N20 | Ant1 | 5180 | TN | VL | 5180.02 | 3.861004 | PASS |
| | | | TN | VN | 5180.1 | 19.305019 | PASS |
| | | | TN | VH | 5180.04 | 7.722008 | PASS |
| 11N20 | Ant1 | 5200 | TN | VL | 5200.08 | 15.384615 | PASS |
| | | | TN | VN | 5200.08 | 15.384615 | PASS |
| | | | TN | VH | 5199.94 | -11.538462 | PASS |
| 11N20 | Ant1 | 5240 | TN | VL | 5240.06 | 11.450382 | PASS |
| | | | TN | VN | 5240.06 | 11.450382 | PASS |
| | | | TN | VH | 5240.1 | 19.083969 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11N20 | Ant1 | 5745 | TN | VL | 5745.02 | 3.481288 | PASS |
| | | | TN | VN | 5745 | 10.443864 | PASS |
| | | | TN | VH | 5744.98 | 13.925152 | PASS |
| 11N20 | Ant1 | 5785 | TN | VL | 5784.96 | -6.914434 | PASS |
| | | | TN | VN | 5784.98 | -3.457217 | PASS |
| | | | TN | VH | 5784.98 | -3.457217 | PASS |
| 11N20 | Ant1 | 5825 | TN | VL | 5825.1 | 17.167382 | PASS |
| | | | TN | VN | 5825.06 | 10.300429 | PASS |
| | | | TN | VH | 5825.02 | 3.433476 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11N40 | Ant1 | 5190 | TN | VL | 5230.08 | 15.296367 | PASS |
| | | | TN | VN | 5190.08 | 15.414258 | PASS |
| | | | TN | VH | 5190.08 | 15.414258 | PASS |
| 11N40 | Ant1 | 5230 | TN | VL | 5230.08 | 15.296367 | PASS |
| | | | TN | VN | 5230.08 | 15.296367 | PASS |
| | | | TN | VH | 5230.04 | 7.648184 | PASS |
| 11N40 | Ant1 | 5755 | TN | VL | 5755.08 | 13.900956 | PASS |
| | | | TN | VN | 5755.04 | 6.950478 | PASS |
| | | | TN | VH | 5754.96 | -6.950478 | PASS |
| 11N40 | Ant1 | 5795 | TN | VL | 5795.04 | 6.902502 | PASS |
| | | | TN | VN | 5795.04 | 6.902502 | PASS |
| | | | TN | VH | 5795.04 | 6.902502 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC20 | Ant1 | 5180 | TN | VL | 5180.02 | 3.861004 | PASS |
| | | | TN | VN | 5180.06 | 11.583012 | PASS |
| | | | TN | VH | 5180.04 | 7.722008 | PASS |
| 11AC20 | Ant1 | 5200 | TN | VL | 5199.94 | -11.538462 | PASS |
| | | | TN | VN | 5200.08 | 15.384615 | PASS |
| | | | TN | VH | 5200.08 | 15.384615 | PASS |
| 11AC20 | Ant1 | 5240 | TN | VL | 5240.02 | 3.816794 | PASS |
| | | | TN | VN | 5239.96 | -7.633588 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | TN | VH | 5239.96 | -7.633588 | PASS |
| 11AC20 | Ant1 | 5745 | TN | VL | 5744.98 | -3.481288 | PASS |
| | | | TN | VN | 5745.08 | 13.925152 | PASS |
| | | | TN | VH | 5745.08 | 13.925152 | PASS |
| 11AC20 | Ant1 | 5785 | TN | VL | 5785.02 | 3.457217 | PASS |
| | | | TN | VN | 5784.94 | -10.371651 | PASS |
| | | | TN | VH | 5784.9 | -17.286085 | PASS |
| 11AC20 | Ant1 | 5825 | TN | VL | 5825.08 | 13.733906 | PASS |
| | | | TN | VN | 5825.02 | 3.433476 | PASS |
| | | | TN | VH | 5825.02 | 3.433476 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC40 | Ant1 | 5190 | TN | VL | 5190.08 | 15.414258 | PASS |
| | | | TN | VN | 5190.04 | 7.707129 | PASS |
| | | | TN | VH | 5190.04 | 7.707129 | PASS |
| 11AC40 | Ant1 | 5230 | TN | VL | 5230.04 | 7.648184 | PASS |
| | | | TN | VN | 5230.04 | 7.648184 | PASS |
| | | | TN | VH | 5230.04 | 7.648184 | PASS |
| 11AC40 | Ant1 | 5755 | TN | VL | 5754.96 | -6.950478 | PASS |
| | | | TN | VN | 5755.04 | 6.950478 | PASS |
| | | | TN | VH | 5755.04 | 6.950478 | PASS |
| 11AC40 | Ant1 | 5795 | TN | VL | 5795.04 | 6.902502 | PASS |
| | | | TN | VN | 5795.08 | 13.805004 | PASS |
| | | | TN | VH | 5795.04 | 6.902502 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC80 | Ant1 | 5210 | TN | VL | 5210.08 | 15.355086 | PASS |
| | | | TN | VN | 5210.08 | 15.355086 | PASS |
| | | | TN | VH | 5210.08 | 15.355086 | PASS |
| 11AC80 | Ant1 | 5775 | TN | VL | 5775.08 | 13.852814 | PASS |
| | | | TN | VN | 5775.08 | 13.852814 | PASS |
| | | | TN | VH | 5775.08 | 13.852814 | PASS |

**Frequency Error vs. Temperature:**

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 50 | VN | 5180.04 | 7.722008 | PASS |
| | | | 40 | VN | 5180.06 | 11.583012 | PASS |
| | | | 30 | VN | 5180.02 | 3.861004 | PASS |
| | | | 20 | VN | 5180.04 | 7.722008 | PASS |
| | | | 10 | VN | 5180.04 | 7.722008 | PASS |
| | | | 0 | VN | 5180.04 | 7.722008 | PASS |
| 11A | Ant1 | 5200 | 50 | VN | 5200.02 | 3.846154 | PASS |
| | | | 40 | VN | 5200.04 | 7.692308 | PASS |
| | | | 30 | VN | 5199.98 | -3.846154 | PASS |
| | | | 20 | VN | 5200.02 | 3.846154 | PASS |
| | | | 10 | VN | 5200.06 | 11.538462 | PASS |
| | | | 0 | VN | 5200.08 | 15.384615 | PASS |
| 11A | Ant1 | 5240 | 50 | VN | 5240.02 | 3.816794 | PASS |
| | | | 40 | VN | 5240.04 | 7.633588 | PASS |
| | | | 30 | VN | 5240.04 | 7.633588 | PASS |
| | | | 20 | VN | 5240.04 | 7.633588 | PASS |
| | | | 10 | VN | 5240.1 | 19.083969 | PASS |
| | | | 0 | VN | 5240.06 | 11.450382 | PASS |
| 11A | Ant1 | 5745 | 50 | VN | 5745.04 | 6.962576 | PASS |
| | | | 40 | VN | 5744.98 | -3.481288 | PASS |
| | | | 30 | VN | 5745.04 | 6.962576 | PASS |
| | | | 20 | VN | 5745.04 | 6.962576 | PASS |
| | | | 10 | VN | 5745.06 | 10.443864 | PASS |
| | | | 0 | VN | 5745.02 | 3.481288 | PASS |
| 11A | Ant1 | 5785 | 50 | VN | 5784.98 | -3.457217 | PASS |
| | | | 40 | VN | 5785.02 | 3.457217 | PASS |
| | | | 30 | VN | 5785.04 | 6.914434 | PASS |
| | | | 20 | VN | 5785.02 | 3.457217 | PASS |
| | | | 10 | VN | 5785.02 | 3.457217 | PASS |
| | | | 0 | VN | 5785.04 | 6.914434 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5825 | 50 | VN | 5825.04 | 6.866953 | PASS |
| | | | 40 | VN | 5825.04 | 6.866953 | PASS |
| | | | 30 | VN | 5825.1 | 17.167382 | PASS |
| | | | 20 | VN | 5825.04 | 6.866953 | PASS |
| | | | 10 | VN | 5825.08 | 13.733906 | PASS |
| | | | 0 | VN | 5825.06 | 10.300429 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11N20 | Ant1 | 5180 | 50 | VN | 5180.06 | 11.583012 | PASS |
| | | | 40 | VN | 5180.08 | 15.444015 | PASS |
| | | | 30 | VN | 5179.98 | -3.861004 | PASS |
| | | | 20 | VN | 5180.02 | 3.861004 | PASS |
| | | | 10 | VN | 5180.08 | 15.444015 | PASS |
| | | | 0 | VN | 5180.04 | 7.722008 | PASS |
| 11N20 | Ant1 | 5200 | 50 | VN | 5200.04 | 7.692308 | PASS |
| | | | 40 | VN | 5200.06 | 11.538462 | PASS |
| | | | 30 | VN | 5200.02 | 3.846154 | PASS |
| | | | 20 | VN | 5200.06 | 11.538462 | PASS |
| | | | 10 | VN | 5200.08 | 15.384615 | PASS |
| | | | 0 | VN | 5200.02 | 3.846154 | PASS |
| 11N20 | Ant1 | 5240 | 50 | VN | 5240.02 | 3.816794 | PASS |
| | | | 40 | VN | 5240.02 | 3.816794 | PASS |
| | | | 30 | VN | 5240.04 | 7.633588 | PASS |
| | | | 20 | VN | 5240.04 | 7.633588 | PASS |
| | | | 10 | VN | 5240.04 | 7.633588 | PASS |
| | | | 0 | VN | 5240.06 | 11.450382 | PASS |
| 11N20 | Ant1 | 5745 | 50 | VN | 5745.06 | 10.443864 | PASS |
| | | | 40 | VN | 5745.02 | 3.481288 | PASS |
| | | | 30 | VN | 5745.04 | 6.962576 | PASS |
| | | | 20 | VN | 5745.02 | 3.481288 | PASS |
| | | | 10 | VN | 5745.04 | 6.962576 | PASS |
| | | | 0 | VN | 5745.02 | 3.481288 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11N20 | Ant1 | 5785 | 50 | VN | 5785.02 | 3.457217 | PASS |
| | | | 40 | VN | 5785.02 | 3.457217 | PASS |
| | | | 30 | VN | 5785.04 | 6.914434 | PASS |
| | | | 20 | VN | 5785.02 | 3.457217 | PASS |
| | | | 10 | VN | 5785.02 | 3.457217 | PASS |
| | | | 0 | VN | 5785.04 | 6.914434 | PASS |
| 11N20 | Ant1 | 5825 | 50 | VN | 5825.02 | 3.433476 | PASS |
| | | | 40 | VN | 5825.02 | 3.433476 | PASS |
| | | | 30 | VN | 5824.98 | -3.433476 | PASS |
| | | | 20 | VN | 5825.02 | 3.433476 | PASS |
| | | | 10 | VN | 5825.08 | 13.733906 | PASS |
| | | | 0 | VN | 5825.06 | 10.300429 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11N40 | Ant1 | 5190 | 50 | VN | 5190.08 | 15.414258 | PASS |
| | | | 40 | VN | 5190.08 | 15.414258 | PASS |
| | | | 30 | VN | 5189.96 | -7.707129 | PASS |
| | | | 20 | VN | 5190.04 | 7.707129 | PASS |
| | | | 10 | VN | 5190.08 | 15.414258 | PASS |
| | | | 0 | VN | 5190.08 | 15.414258 | PASS |
| 11N40 | Ant1 | 5230 | 50 | VN | 5230.08 | 15.296367 | PASS |
| | | | 40 | VN | 5230.04 | 7.648184 | PASS |
| | | | 30 | VN | 5230.04 | 7.648184 | PASS |
| | | | 20 | VN | 5230.08 | 15.296367 | PASS |
| | | | 10 | VN | 5230.08 | 15.296367 | PASS |
| | | | 0 | VN | 5230.08 | 15.296367 | PASS |
| 11N40 | Ant1 | 5755 | 50 | VN | 5755.04 | 6.950478 | PASS |
| | | | 40 | VN | 5755.08 | 13.900956 | PASS |
| | | | 30 | VN | 5755.04 | 6.950478 | PASS |
| | | | 20 | VN | 5755.08 | 13.900956 | PASS |
| | | | 10 | VN | 5755.08 | 13.900956 | PASS |
| | | | 0 | VN | 5755.04 | 6.950478 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11N40 | Ant1 | 5795 | 50 | VN | 5795.04 | 6.902502 | PASS |
| | | | 40 | VN | 5795.04 | 6.902502 | PASS |
| | | | 30 | VN | 5795.08 | 13.805004 | PASS |
| | | | 20 | VN | 5795.04 | 6.902502 | PASS |
| | | | 10 | VN | 5795.04 | 6.902502 | PASS |
| | | | 0 | VN | 5795.08 | 13.805004 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC20 | Ant1 | 5180 | 50 | VN | 5180.08 | 15.444015 | PASS |
| | | | 40 | VN | 5180.06 | 11.583012 | PASS |
| | | | 30 | VN | 5180.06 | 11.583012 | PASS |
| | | | 20 | VN | 5180.1 | 19.305019 | PASS |
| | | | 10 | VN | 5180.06 | 11.583012 | PASS |
| | | | 0 | VN | 5180.02 | 3.861004 | PASS |
| 11AC20 | Ant1 | 5200 | 50 | VN | 5200.06 | 11.538462 | PASS |
| | | | 40 | VN | 5200.1 | 19.230769 | PASS |
| | | | 30 | VN | 5200.04 | 7.692308 | PASS |
| | | | 20 | VN | 5200.08 | 15.384615 | PASS |
| | | | 10 | VN | 5200.1 | 19.230769 | PASS |
| | | | 0 | VN | 5200.08 | 15.384615 | PASS |
| 11AC20 | Ant1 | 5240 | 50 | VN | 5240.04 | 7.633588 | PASS |
| | | | 40 | VN | 5240.02 | 3.816794 | PASS |
| | | | 30 | VN | 5240.06 | 11.450382 | PASS |
| | | | 20 | VN | 5240.04 | 7.633588 | PASS |
| | | | 10 | VN | 5240.02 | 3.816794 | PASS |
| | | | 0 | VN | 5240.02 | 3.816794 | PASS |
| 11AC20 | Ant1 | 5745 | 50 | VN | 5745.02 | 3.481288 | PASS |
| | | | 40 | VN | 5744.98 | -3.481288 | PASS |
| | | | 30 | VN | 5745.08 | 13.925152 | PASS |
| | | | 20 | VN | 5745.1 | 17.40644 | PASS |
| | | | 10 | VN | 5744.92 | -13.925152 | PASS |
| | | | 0 | VN | 5744.96 | -6.962576 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11AC20 | Ant1 | 5785 | 50 | VN | 5785.06 | 10.371651 | PASS |
| | | | 40 | VN | 5785.04 | 6.914434 | PASS |
| | | | 30 | VN | 5785.06 | 10.371651 | PASS |
| | | | 20 | VN | 5784.96 | -6.914434 | PASS |
| | | | 10 | VN | 5784.98 | -3.457217 | PASS |
| | | | 0 | VN | 5785.02 | 3.457217 | PASS |
| 11AC20 | Ant1 | 5825 | 50 | VN | 5824.94 | -10.300429 | PASS |
| | | | 40 | VN | 5825.06 | 10.300429 | PASS |
| | | | 30 | VN | 5825.04 | 6.866953 | PASS |
| | | | 20 | VN | 5825.1 | 17.167382 | PASS |
| | | | 10 | VN | 5825.08 | 13.733906 | PASS |
| | | | 0 | VN | 5825.04 | 6.866953 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC40 | Ant1 | 5190 | 50 | VN | 5190.04 | 7.707129 | PASS |
| | | | 40 | VN | 5190.08 | 15.414258 | PASS |
| | | | 30 | VN | 5190.04 | 7.707129 | PASS |
| | | | 20 | VN | 5190.08 | 15.414258 | PASS |
| | | | 10 | VN | 5190.08 | 15.414258 | PASS |
| | | | 0 | VN | 5190.04 | 7.707129 | PASS |
| 11AC40 | Ant1 | 5230 | 50 | VN | 5230.04 | 7.648184 | PASS |
| | | | 40 | VN | 5230.08 | 15.296367 | PASS |
| | | | 30 | VN | 5230.04 | 7.648184 | PASS |
| | | | 20 | VN | 5230.08 | 15.296367 | PASS |
| | | | 10 | VN | 5230.04 | 7.648184 | PASS |
| | | | 0 | VN | 5230.04 | 7.648184 | PASS |
| 11AC40 | Ant1 | 5755 | 50 | VN | 5755.04 | 6.950478 | PASS |
| | | | 40 | VN | 5754.96 | -6.950478 | PASS |
| | | | 30 | VN | 5754.96 | -6.950478 | PASS |
| | | | 20 | VN | 5755.04 | 6.950478 | PASS |
| | | | 10 | VN | 5755.04 | 6.950478 | PASS |
| | | | 0 | VN | 5754.96 | -6.950478 | PASS |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11AC40 | Ant1 | 5795 | 50 | VN | 5795.08 | 13.805004 | PASS |
| | | | 40 | VN | 5794.92 | -13.805004 | PASS |
| | | | 30 | VN | 5795.04 | 6.902502 | PASS |
| | | | 20 | VN | 5795.04 | 6.902502 | PASS |
| | | | 10 | VN | 5794.96 | -6.902502 | PASS |
| | | | 0 | VN | 5795.08 | 13.805004 | PASS |

| Test Mode | Antenna | Channel | Temp. | Volt. | Freq.Error(MHz) | Freq.vs.rated(ppm) | Verdict |
|---|---|---|---|---|---|---|---|
| 11AC80 | Ant1 | 5210 | 50 | VN | 5210.08 | 15.355086 | PASS |
| | | | 40 | VN | 5210.08 | 15.355086 | PASS |
| | | | 30 | VN | 5210.08 | 15.355086 | PASS |
| | | | 20 | VN | 5210.08 | 15.355086 | PASS |
| | | | 10 | VN | 5210.08 | 15.355086 | PASS |
| | | | 0 | VN | 5210.08 | 15.355086 | PASS |
| 11AC80 | Ant1 | 5775 | 50 | VN | 5774.98 | -15.355086 | PASS |
| | | | 40 | VN | 5775.07 | 13.852814 | PASS |
| | | | 30 | VN | 5774.92 | -13.852814 | PASS |
| | | | 20 | VN | 5775.08 | 13.852814 | PASS |
| | | | 10 | VN | 5775.08 | 13.852814 | PASS |
| | | | 0 | VN | 5775.08 | 13.852814 | PASS |

# Appendix G): Antenna Requirement

**15.203 requirement:**

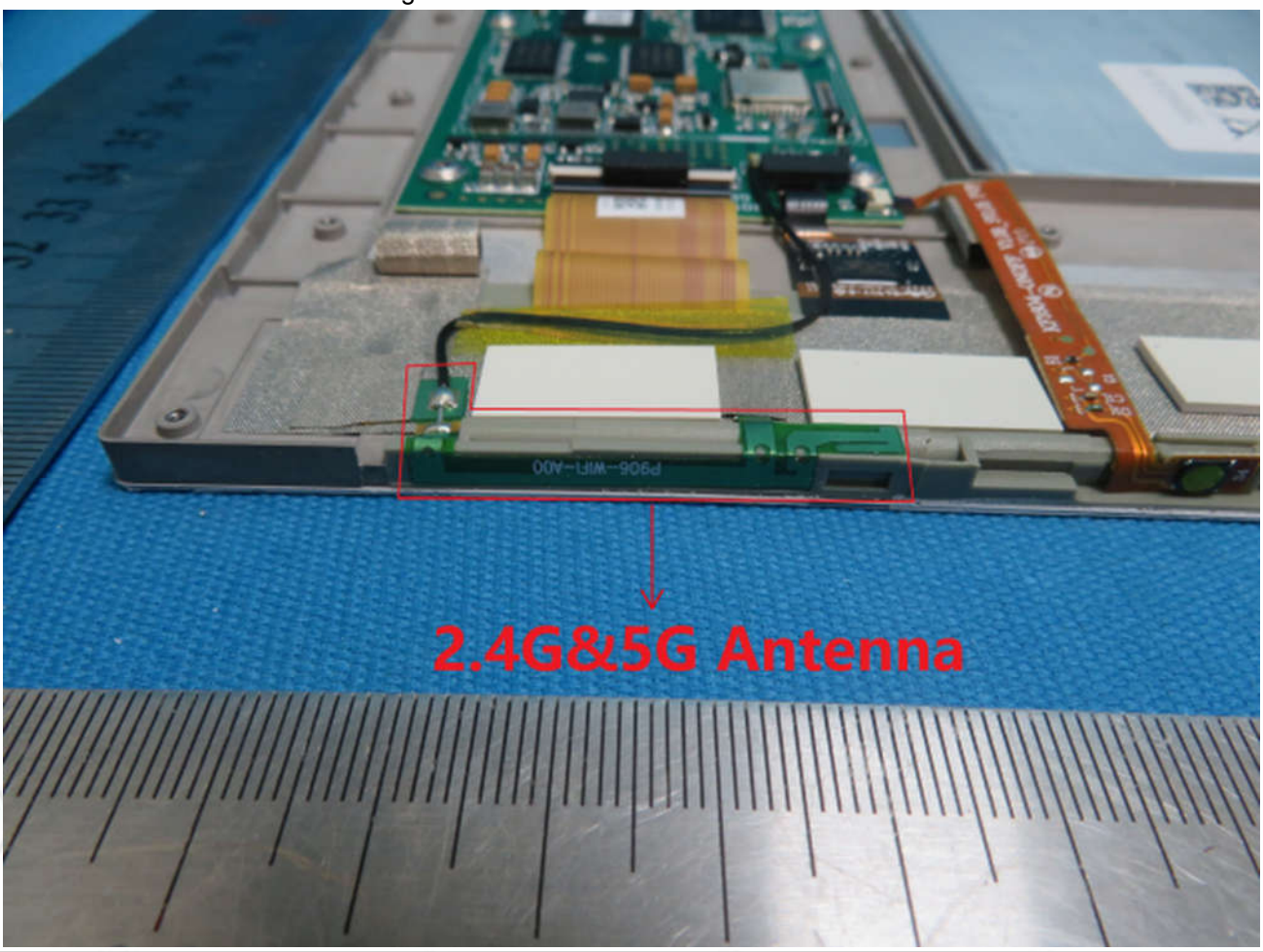
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

**15.407(a)(1) (2) requirement:**

The conducted output power limit specified in paragraph (a) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (a) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power and the peak power spectral density shall be reduced by the by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

| **EUT Antenna:** | |
|---|---|

The antenna is PIFA Antenna and no consideration of replacement. The best case gain of the 5.2G WiFi antenna is 4.43dBi. The best case gain of the 5.8G WiFi antenna is 4.4dBi.



# Appendix H): Operation in the absence of information to the transmit

| |
|---|
| **15.407(c) requirement:**<br>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 signal ling 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. |
| **Operation in the absence of information to the transmit** |
| While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare ) |

# Appendix I): AC Power Line Conducted Emission

| | |
|---|---|
| Test Procedure: | Test frequency range :150KHz-30MHz<br>1)The mains terminal disturbance voltage test was conducted in a shielded room.<br>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.<br>3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,<br>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.<br>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. |
| Limit: | |

| Frequency range (MHz) | Limit (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

NOTE : The lower limit is applicable at the transition frequency

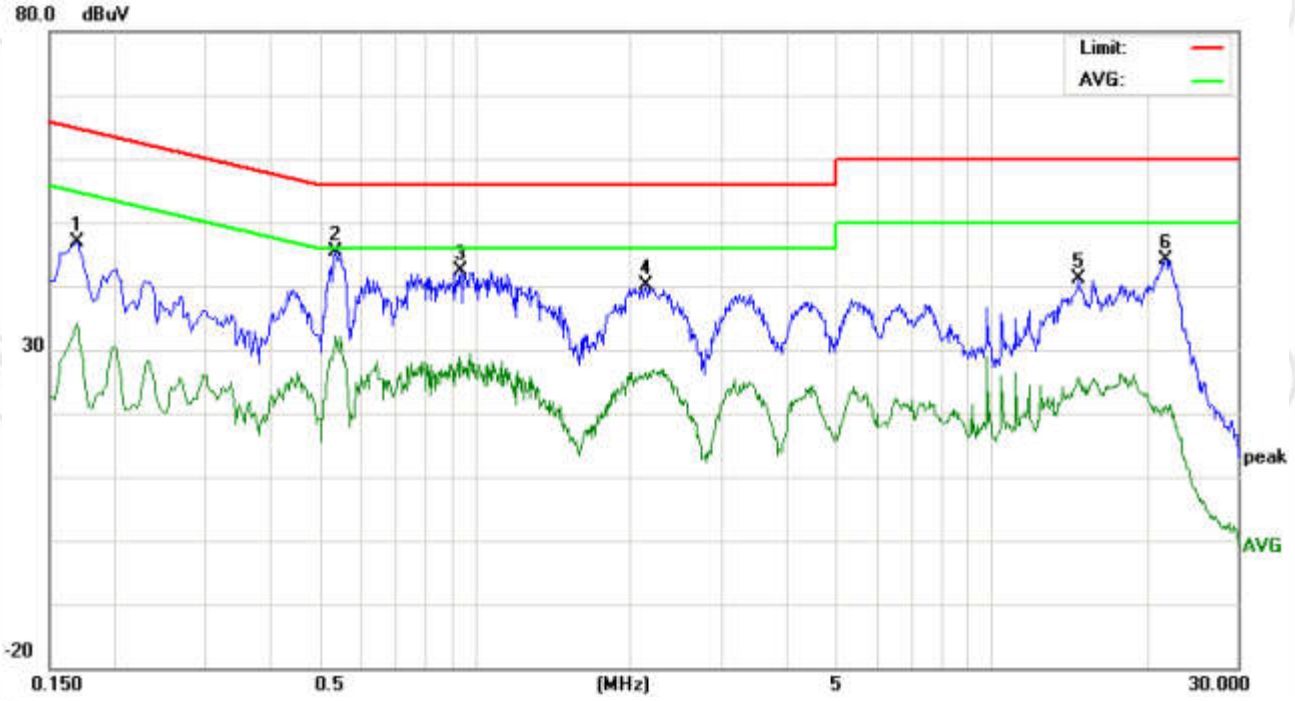
**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

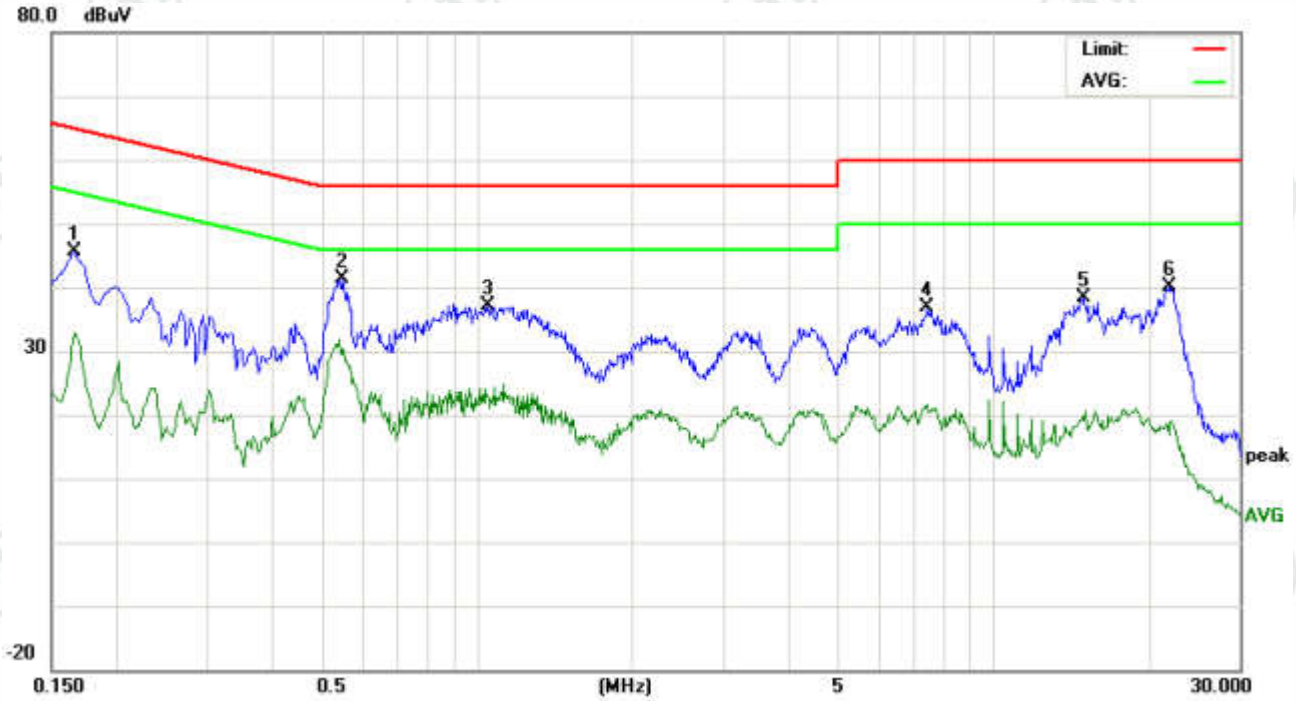
| | | | | | |
|---|---|---|---|---|---|
| **Product** | : | reMarkable paper tablet | **Model/Type reference** | : | RM102 |
| **Temperature** | : | 22℃ | **Humidity** | : | 53% |

Live line:




| No. | Freq. | Reading_Level (dBuV) | | | Correct Factor | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | Peak | QP | AVG | dB | peak | QP | AVG | QP | AVG | QP | AVG | P/F | Comment |
| 1 | 0.1700 | 36.88 | 33.14 | 24.13 | 9.91 | 46.79 | 43.05 | 34.04 | 64.96 | 54.96 | -21.91 | -20.92 | P | |
| 2 | 0.5380 | 35.43 | 31.82 | 22.11 | 9.95 | 45.38 | 41.77 | 32.06 | 56.00 | 46.00 | -14.23 | -13.94 | P | |
| 3 | 0.9420 | 32.48 | 28.25 | 18.42 | 9.82 | 42.30 | 38.07 | 28.24 | 56.00 | 46.00 | -17.93 | -17.76 | P | |
| 4 | 2.1500 | 30.52 | 26.15 | 16.68 | 9.72 | 40.24 | 35.87 | 26.40 | 56.00 | 46.00 | -20.13 | -19.60 | P | |
| 5 | 14.7620 | 31.25 | 28.31 | 15.60 | 9.97 | 41.22 | 38.28 | 25.57 | 60.00 | 50.00 | -21.72 | -24.43 | P | |
| 6 | 21.8100 | 34.12 | 31.18 | 11.25 | 9.92 | 44.04 | 41.10 | 21.17 | 60.00 | 50.00 | -18.90 | -28.83 | P | |

Neutral line:




| No. | Freq. | Reading_Level (dBuV) | | | Correct Factor | Measurement (dBuV) | | | Limit (dBuV) | | Margin (dB) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | Peak | QP | AVG | dB | peak | QP | AVG | QP | AVG | QP | AVG | P/F | Comment |
| 1 | 0.1660 | 35.78 | 31.25 | 22.99 | 9.91 | 45.69 | 41.16 | 32.90 | 65.15 | 55.15 | -23.99 | -22.25 | P | |
| 2 | 0.5500 | 31.30 | 28.31 | 19.83 | 9.97 | 41.27 | 38.28 | 29.80 | 56.00 | 46.00 | -17.72 | -16.20 | P | |
| 3 | 1.0540 | 27.37 | 23.58 | 13.07 | 9.81 | 37.18 | 33.39 | 22.88 | 56.00 | 46.00 | -22.61 | -23.12 | P | |
| 4 | 7.4860 | 27.01 | 23.87 | 11.30 | 9.76 | 36.77 | 33.63 | 21.06 | 60.00 | 50.00 | -26.37 | -28.94 | P | |
| 5 | 14.9820 | 28.31 | 25.64 | 10.01 | 9.98 | 38.29 | 35.62 | 19.99 | 60.00 | 50.00 | -24.38 | -30.01 | P | |
| 6 | 21.9940 | 30.26 | 26.45 | 8.67 | 9.92 | 40.18 | 36.37 | 18.59 | 60.00 | 50.00 | -23.63 | -31.41 | P | |

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

# Appendix J): Restricted bands around fundamental frequency (Radiated Emission)

Receiver Setup:

| Frequency | Detector | RBW | VBW | Remark |
|---|---|---|---|---|
| 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

Test Procedure:

**Below 1GHz test procedure as below:**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

**Above 1GHz test procedure as below:**

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
h. Test the EUT in the lowest channel , the Highest channel
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

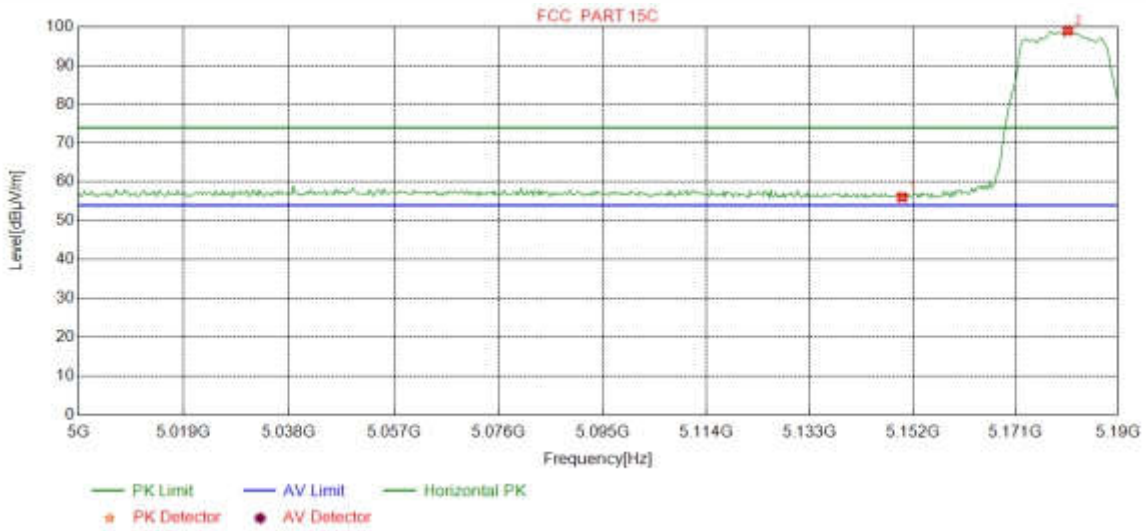
Limit:

| Frequency | Limit (dBμV/m @3cm) | Remark |
|---|---|---|
| 30MHz-88MHz | 40.0 | Quasi-peak Value |
| 88MHz-216MHz | 43.5 | Quasi-peak Value |
| 216MHz-960MHz | 46.0 | Quasi-peak Value |
| 960MHz-1GHz | 54.0 | Quasi-peak Value |
| Above 1GHz | 54.0 | Average Value |
| | 74.0 | Peak Value |

**Test plot as follows:**

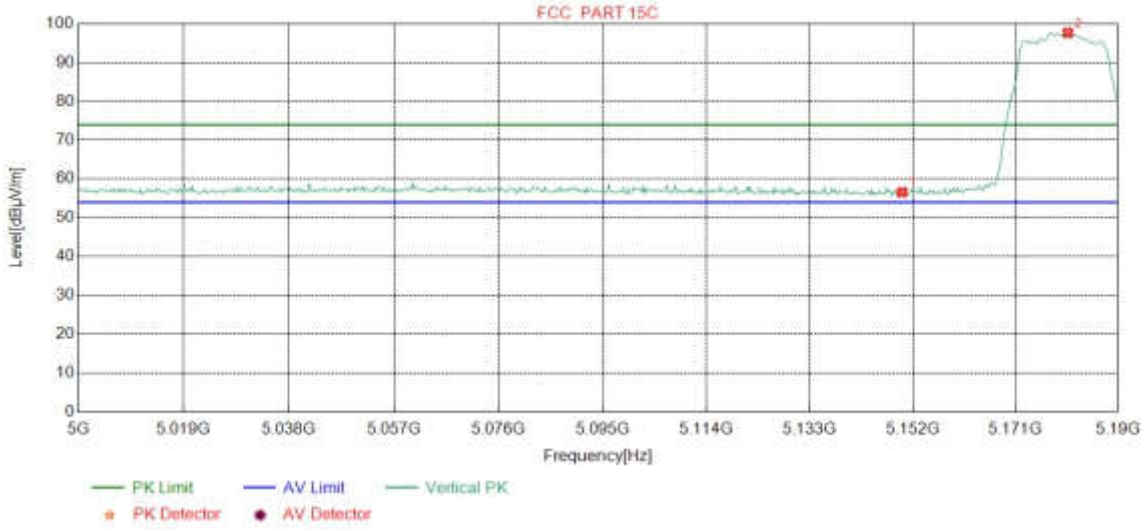
Band-1

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



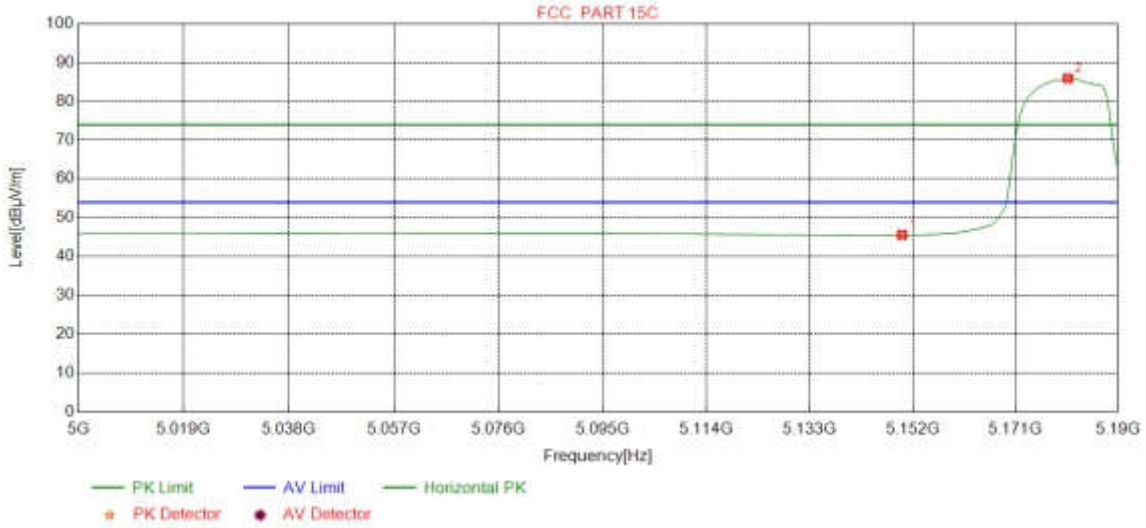

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 46.86 | 56.05 | 74.00 | 17.95 | Pass | Horizontal |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 89.52 | 99.03 | 74.00 | -25.03 | Pass | Horizontal |

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



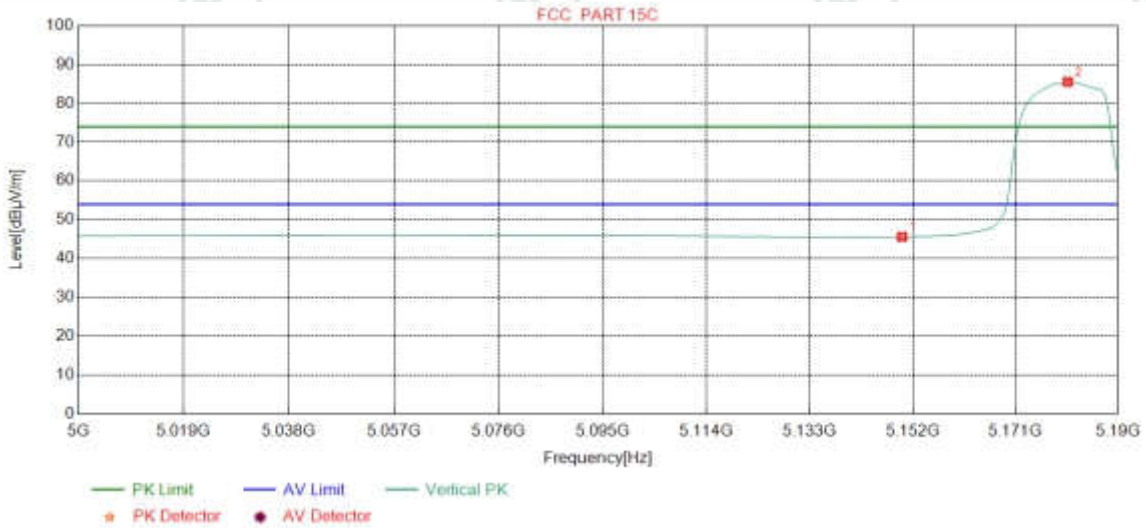

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.38 | 56.57 | 74.00 | 17.43 | Pass | Vertical |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 88.15 | 97.66 | 74.00 | -23.66 | Pass | Vertical |

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



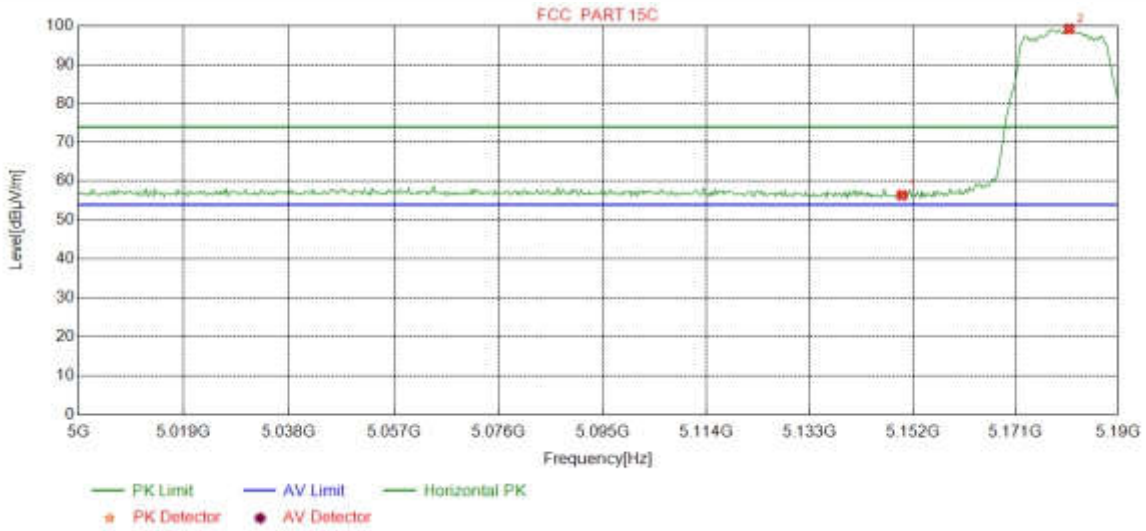

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.39 | 45.58 | 54.00 | 8.42 | Pass | Horizontal |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 76.42 | 85.93 | 54.00 | -31.93 | Pass | Horizontal |

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



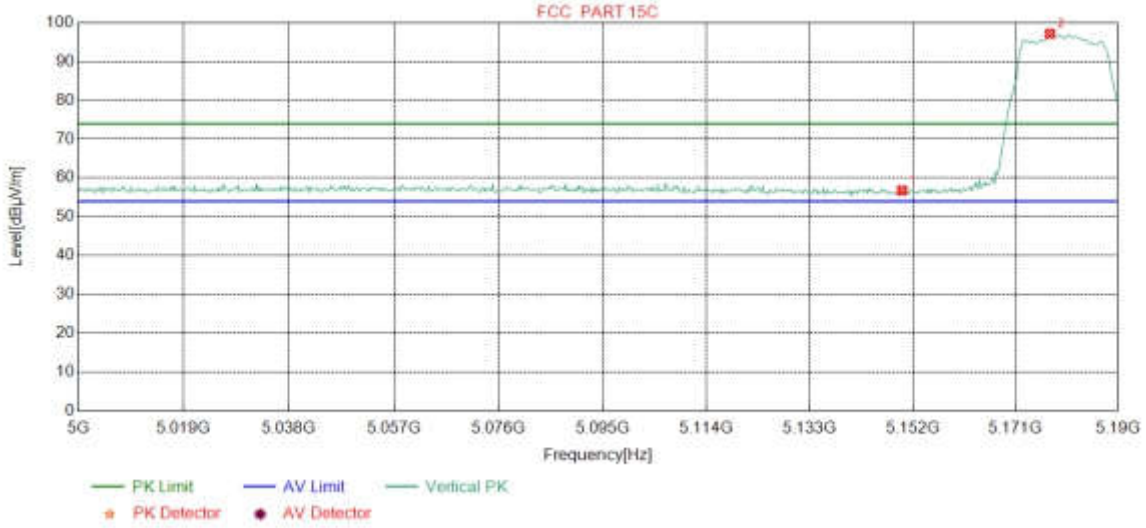

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.39 | 45.58 | 54.00 | 8.42 | Pass | Vertical |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 76.04 | 85.55 | 54.00 | -31.55 | Pass | Vertical |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



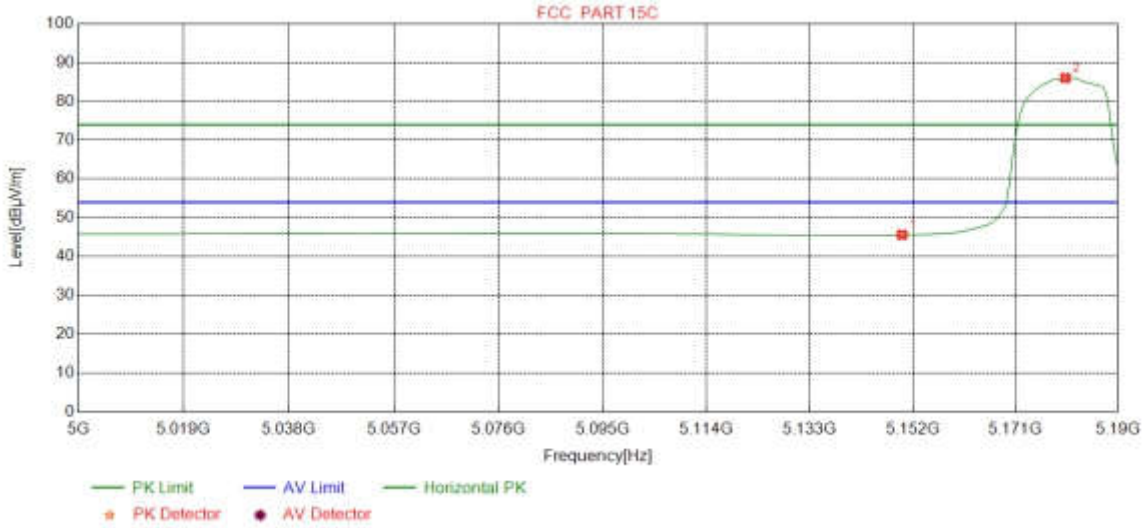

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.20 | 56.39 | 74.00 | 17.61 | Pass | Horizontal |
| 2 | 5180.9637 | 34.68 | 15.38 | -40.55 | 89.69 | 99.20 | 74.00 | -25.20 | Pass | Horizontal |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



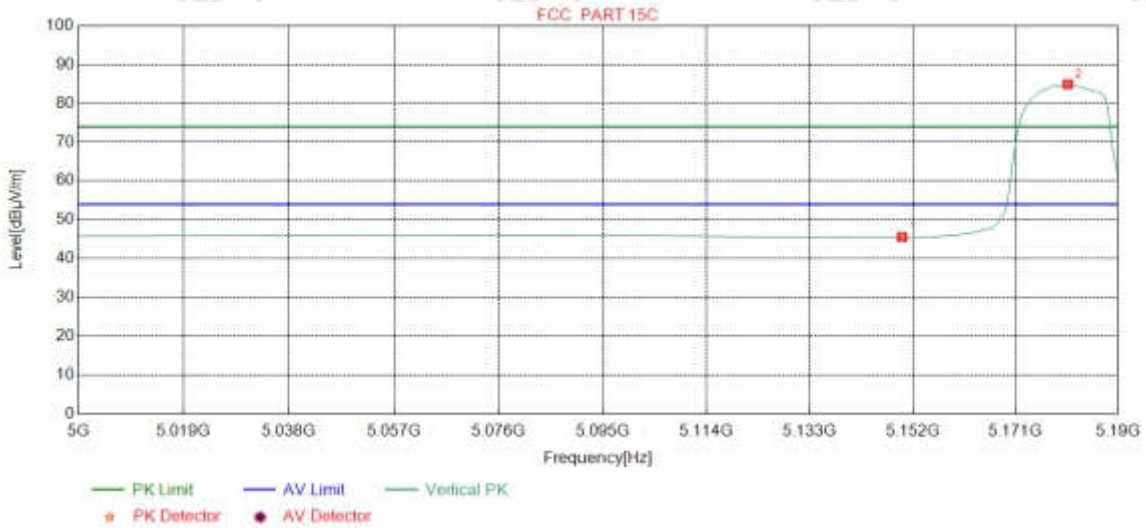

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.57 | 56.76 | 74.00 | 17.24 | Pass | Vertical |
| 2 | 5177.3967 | 34.68 | 15.35 | -40.55 | 87.70 | 97.18 | 74.00 | -23.18 | Pass | Vertical |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



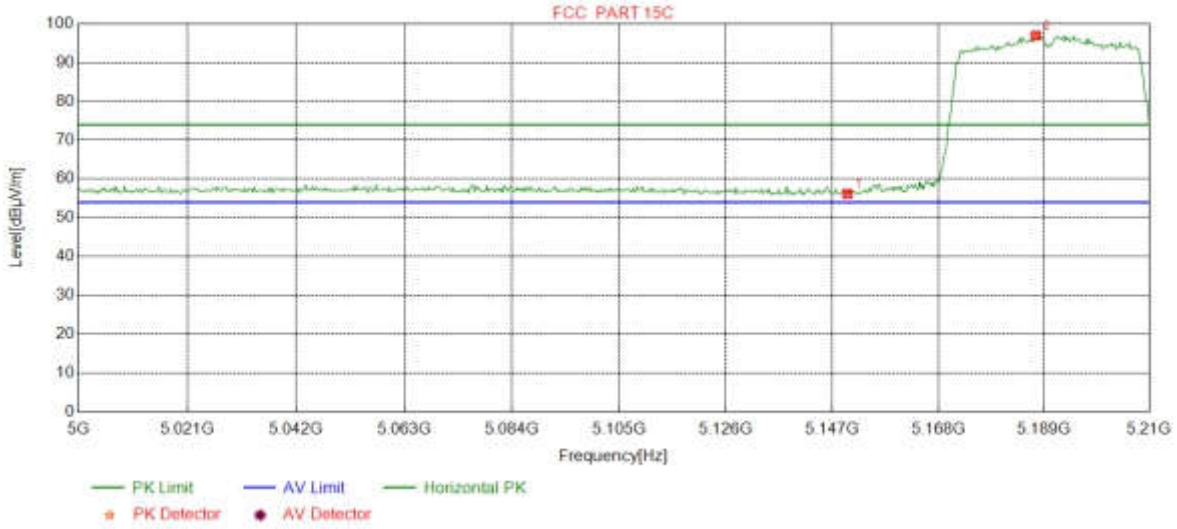

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.38 | 45.57 | 54.00 | 8.43 | Pass | Horizontal |
| 2 | 5180.2503 | 34.68 | 15.38 | -40.55 | 76.53 | 86.04 | 54.00 | -32.04 | Pass | Horizontal |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



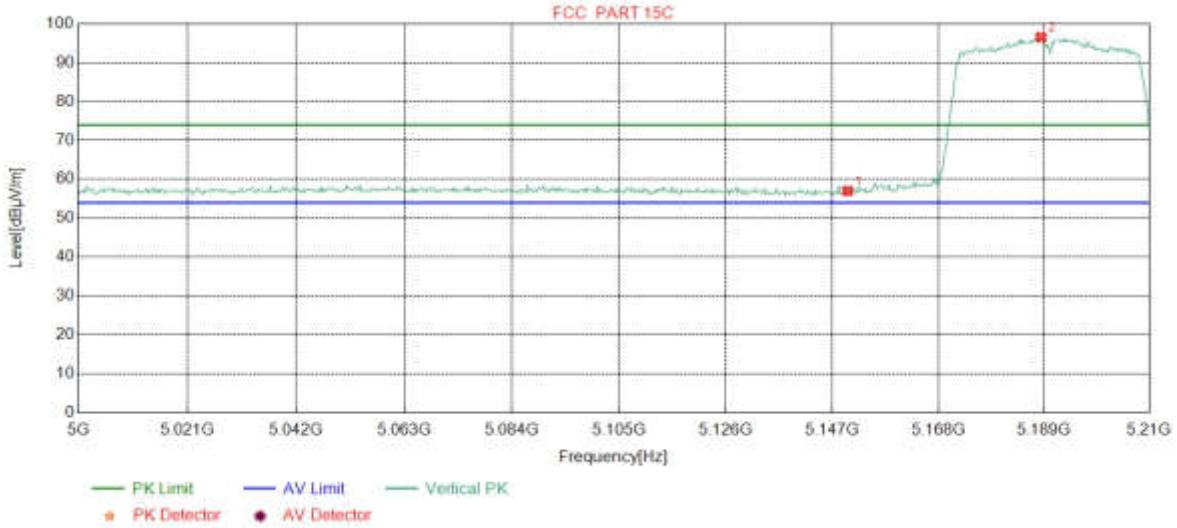

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.36 | 45.55 | 54.00 | 8.45 | Pass | Vertical |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 75.41 | 84.92 | 54.00 | -30.92 | Pass | Vertical |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Peak | | |



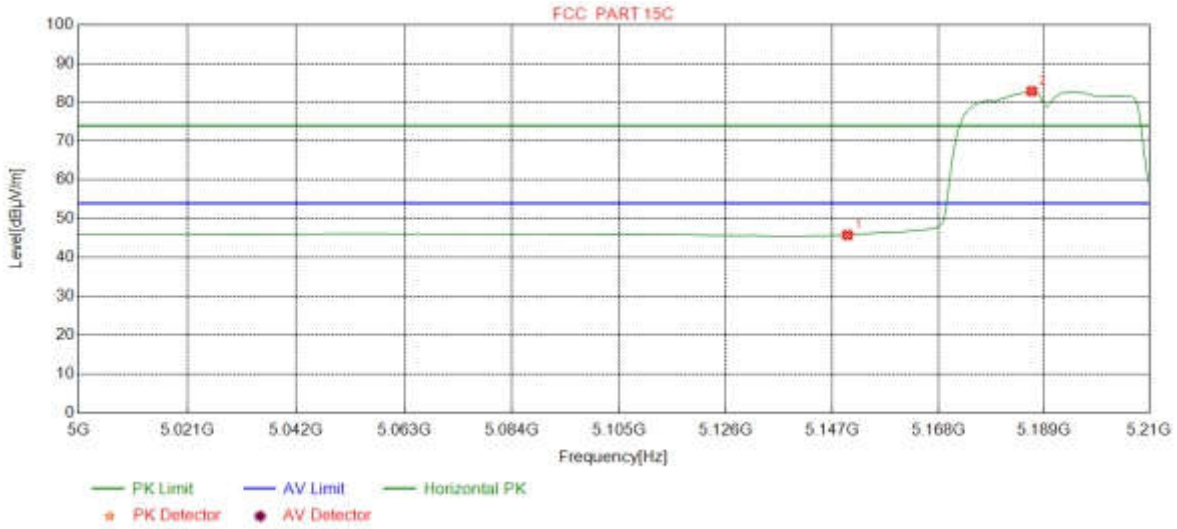

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 46.98 | 56.17 | 74.00 | 17.83 | Pass | Horizontal |
| 2 | 5187.3967 | 34.69 | 15.45 | -40.56 | 87.38 | 96.96 | 74.00 | -22.96 | Pass | Horizontal |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Peak | | |



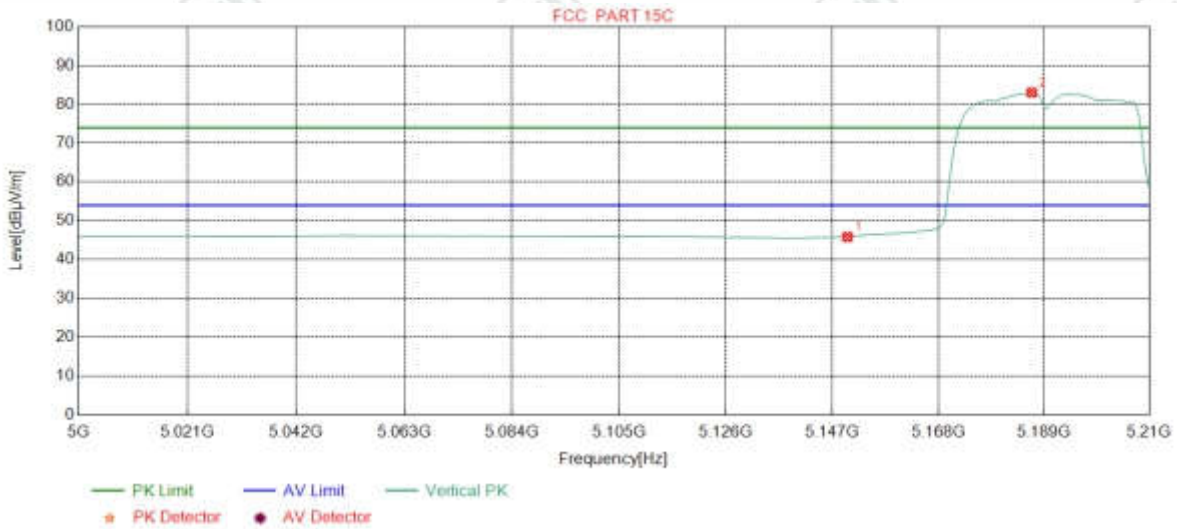

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.78 | 56.97 | 74.00 | 17.03 | Pass | Vertical |
| 2 | 5188.4481 | 34.69 | 15.46 | -40.56 | 86.95 | 96.54 | 74.00 | -22.54 | Pass | Vertical |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Average | | |



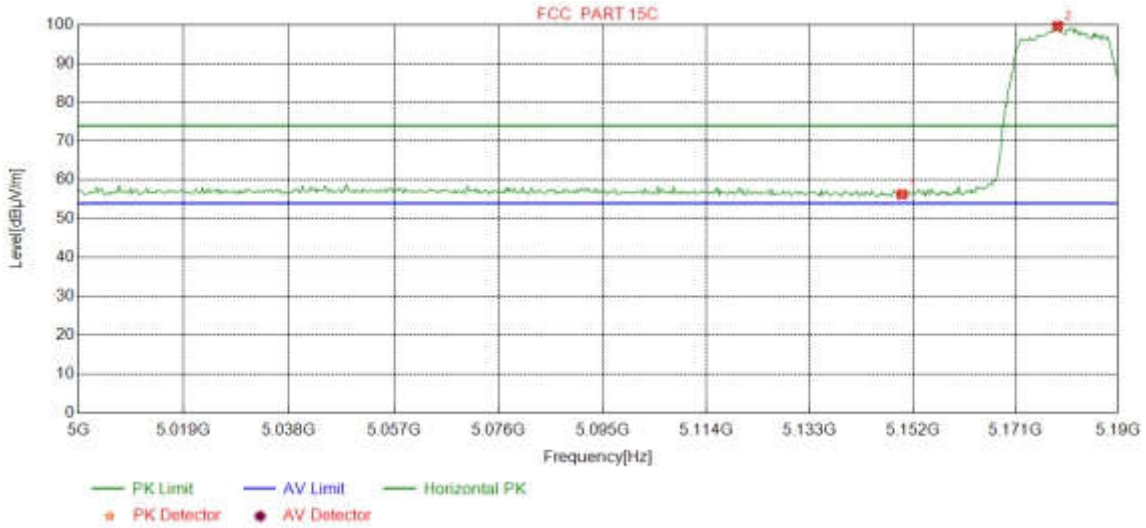

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.59 | 45.78 | 54.00 | 8.22 | Pass | Horizontal |
| 2 | 5186.6083 | 34.69 | 15.44 | -40.56 | 73.30 | 82.87 | 54.00 | -28.87 | Pass | Horizontal |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Average | | |



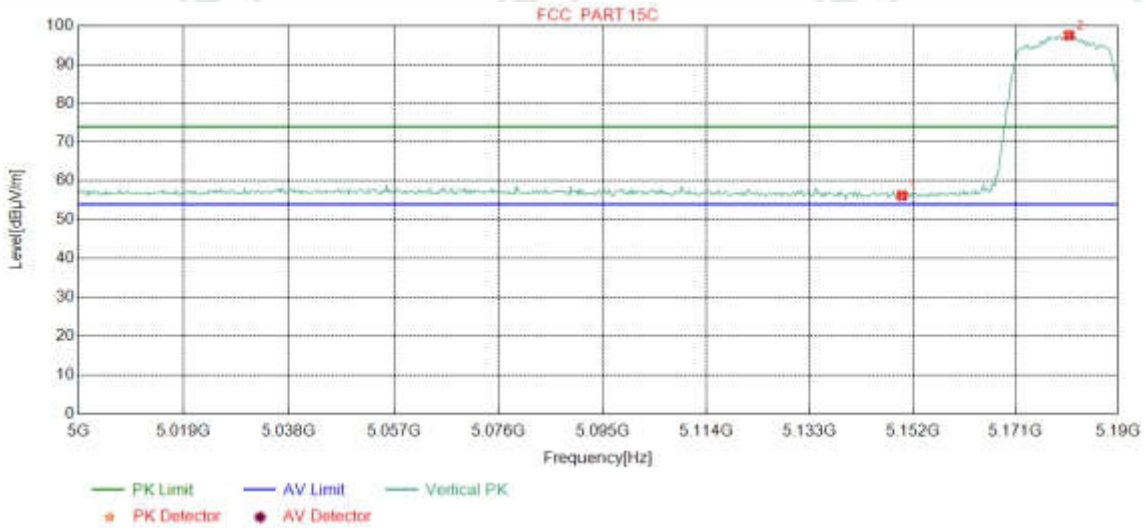

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.63 | 45.82 | 54.00 | 8.18 | Pass | Vertical |
| 2 | 5186.6083 | 34.69 | 15.44 | -40.56 | 73.48 | 83.05 | 54.00 | -29.05 | Pass | Vertical |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



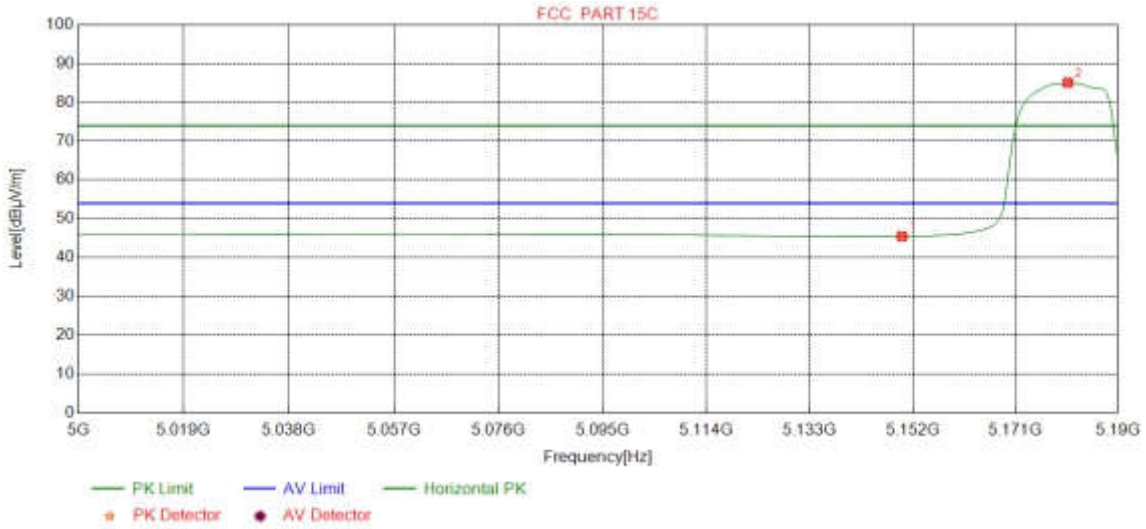

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.08 | 56.27 | 74.00 | 17.73 | Pass | Horizontal |
| 2 | 5178.8235 | 34.68 | 15.36 | -40.55 | 90.20 | 99.69 | 74.00 | -25.69 | Pass | Horizontal |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Peak | | |



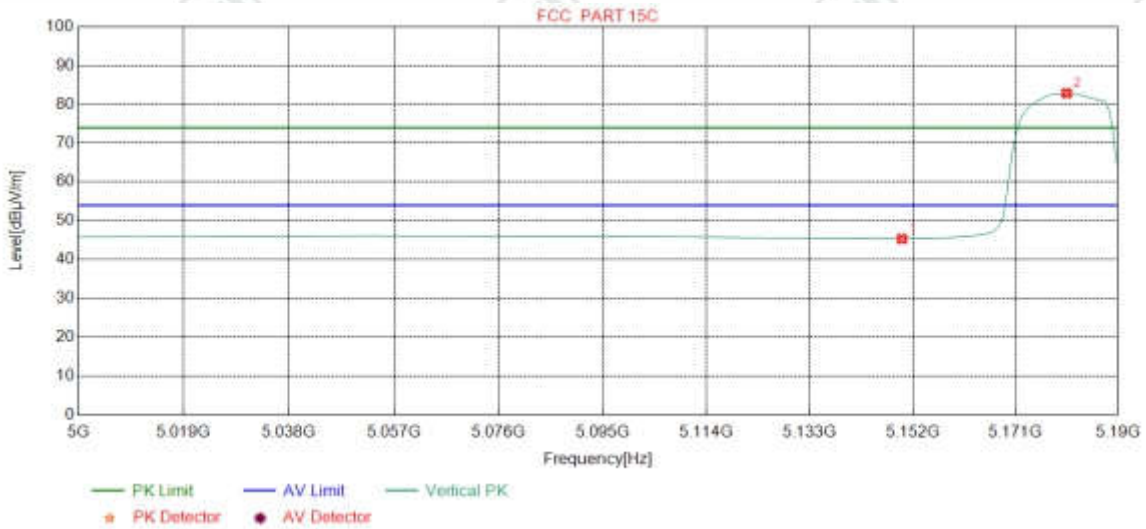

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.03 | 56.22 | 74.00 | 17.78 | Pass | Vertical |
| 2 | 5180.9637 | 34.68 | 15.38 | -40.55 | 88.03 | 97.54 | 74.00 | -23.54 | Pass | Vertical |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



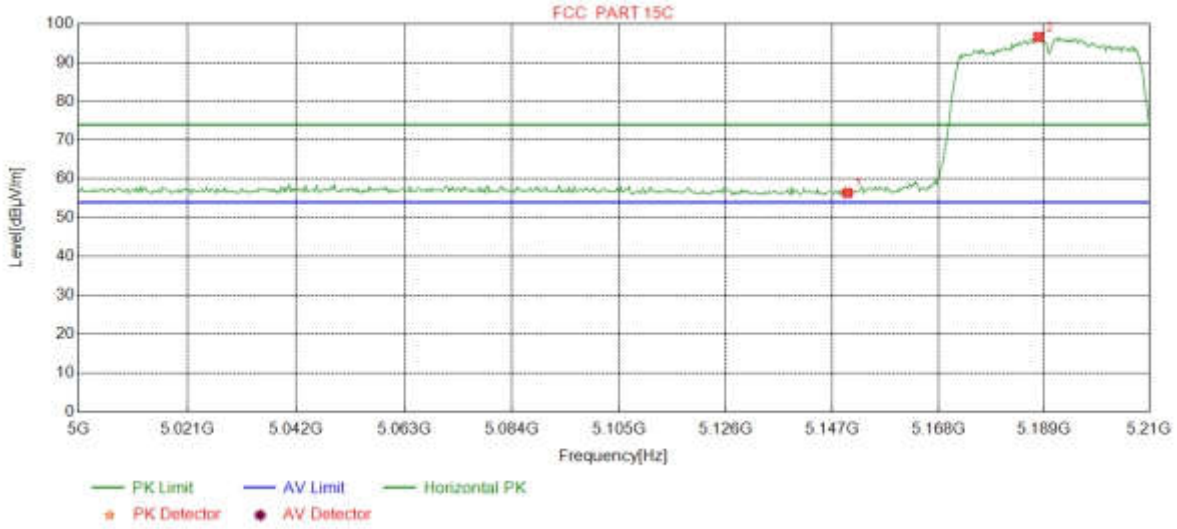

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.26 | 45.45 | 54.00 | 8.55 | Pass | Horizontal |
| 2 | 5180.7259 | 34.68 | 15.38 | -40.55 | 75.59 | 85.10 | 54.00 | -31.10 | Pass | Horizontal |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | Average | | |



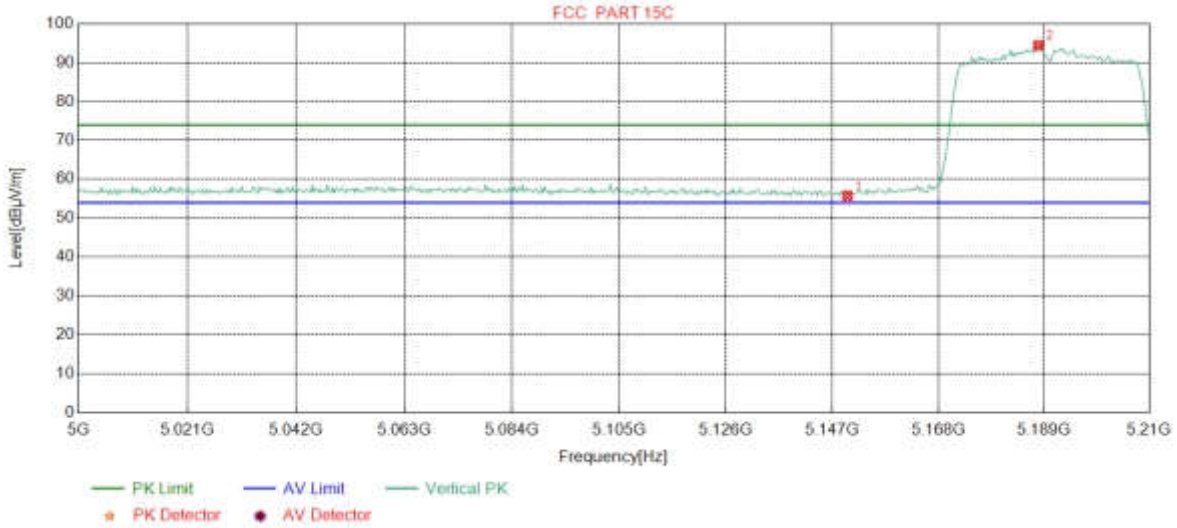

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.14 | 45.33 | 54.00 | 8.67 | Pass | Vertical |
| 2 | 5180.4881 | 34.68 | 15.38 | -40.55 | 73.37 | 82.88 | 54.00 | -28.88 | Pass | Vertical |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Peak | | |



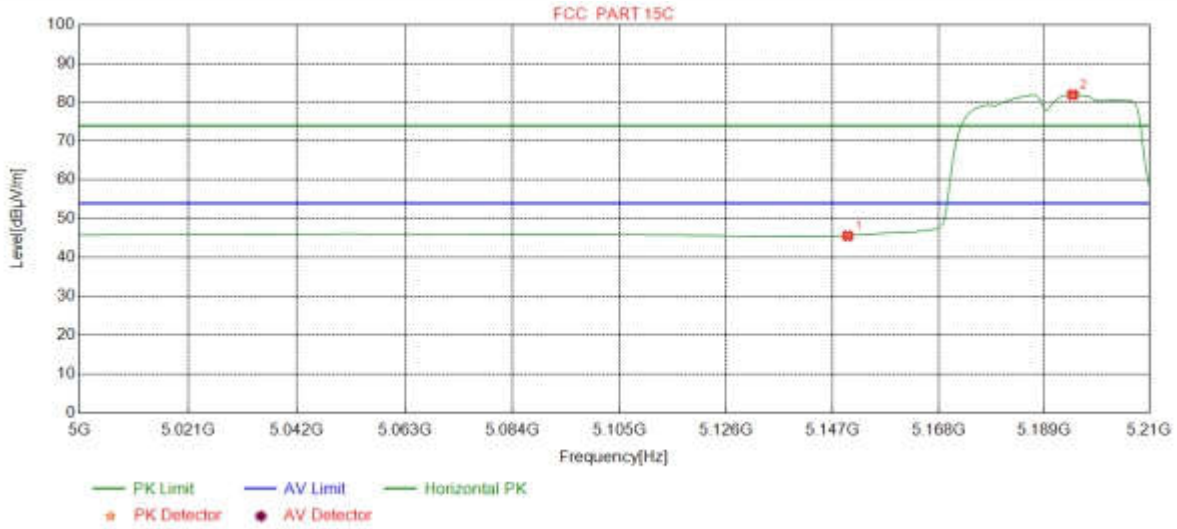

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.19 | 56.38 | 74.00 | 17.62 | Pass | Horizontal |
| 2 | 5187.9224 | 34.69 | 15.45 | -40.55 | 87.03 | 96.62 | 74.00 | -22.62 | Pass | Horizontal |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Peak | | |



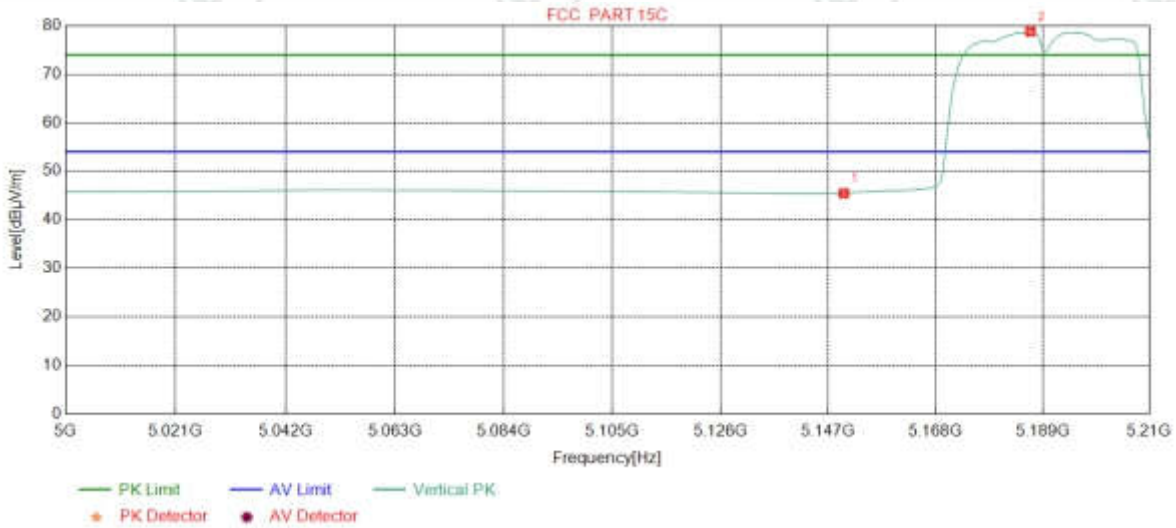

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 46.58 | 55.77 | 74.00 | 18.23 | Pass | Vertical |
| 2 | 5187.9224 | 34.69 | 15.45 | -40.55 | 84.91 | 94.50 | 74.00 | -20.50 | Pass | Vertical |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Average | | |



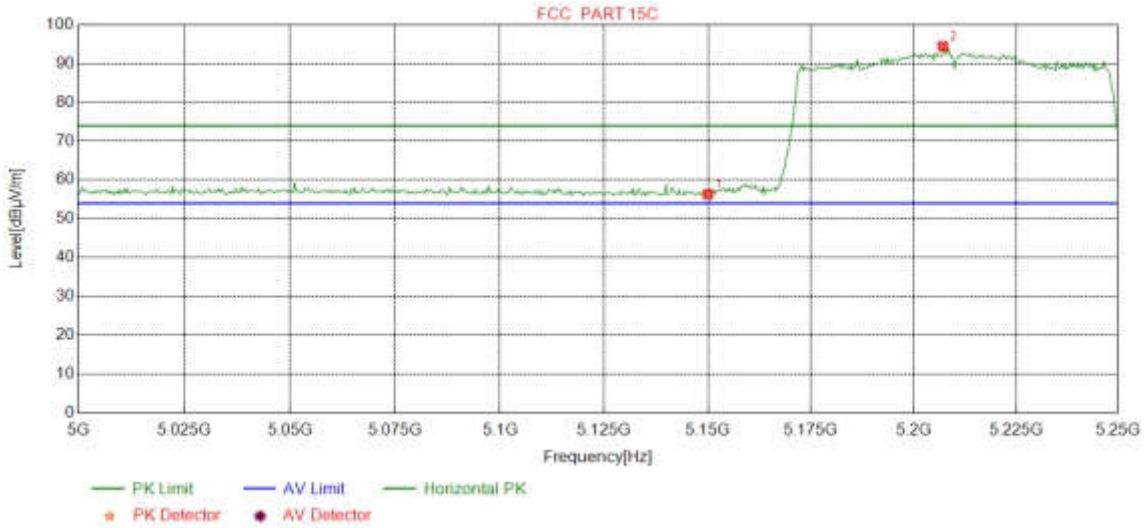

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.38 | 45.57 | 54.00 | 8.43 | Pass | Horizontal |
| 2 | 5194.7559 | 34.69 | 15.52 | -40.55 | 72.30 | 81.96 | 54.00 | -27.96 | Pass | Horizontal |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | Average | | |



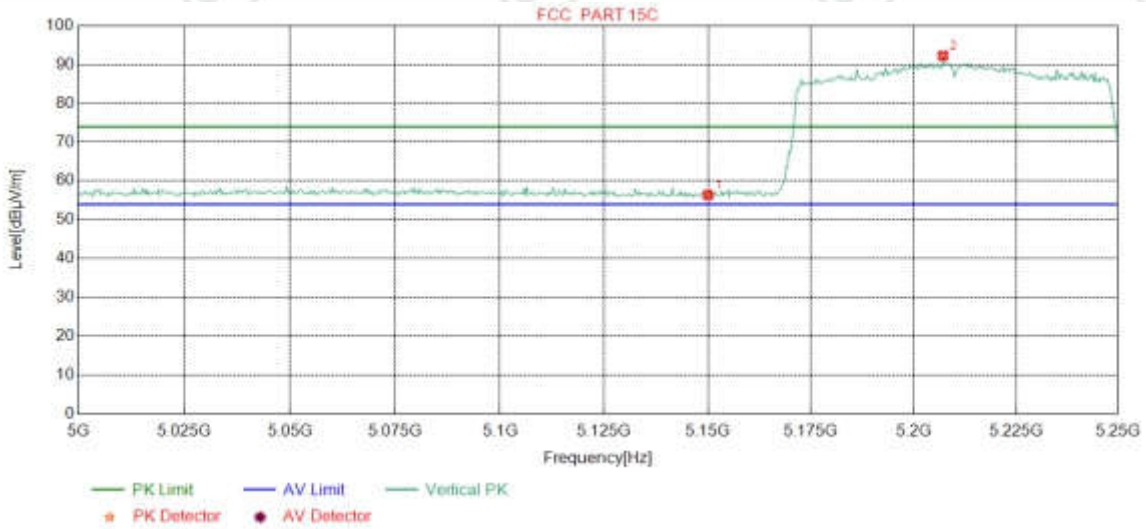

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.25 | 45.44 | 54.00 | 8.56 | Pass | Vertical |
| 2 | 5186.6083 | 34.69 | 15.44 | -40.56 | 69.25 | 78.82 | 54.00 | -24.82 | Pass | Vertical |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | Peak | | |



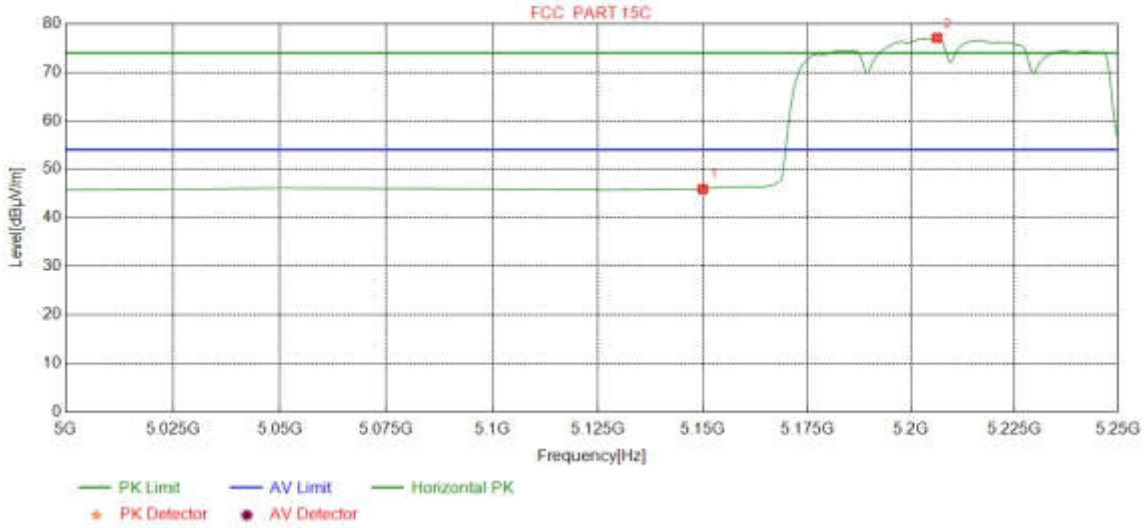

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.12 | 56.31 | 74.00 | 17.69 | Pass | Horizontal |
| 2 | 5207.1339 | 34.71 | 15.54 | -40.56 | 84.80 | 94.49 | 74.00 | -20.49 | Pass | Horizontal |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | Peak | | |



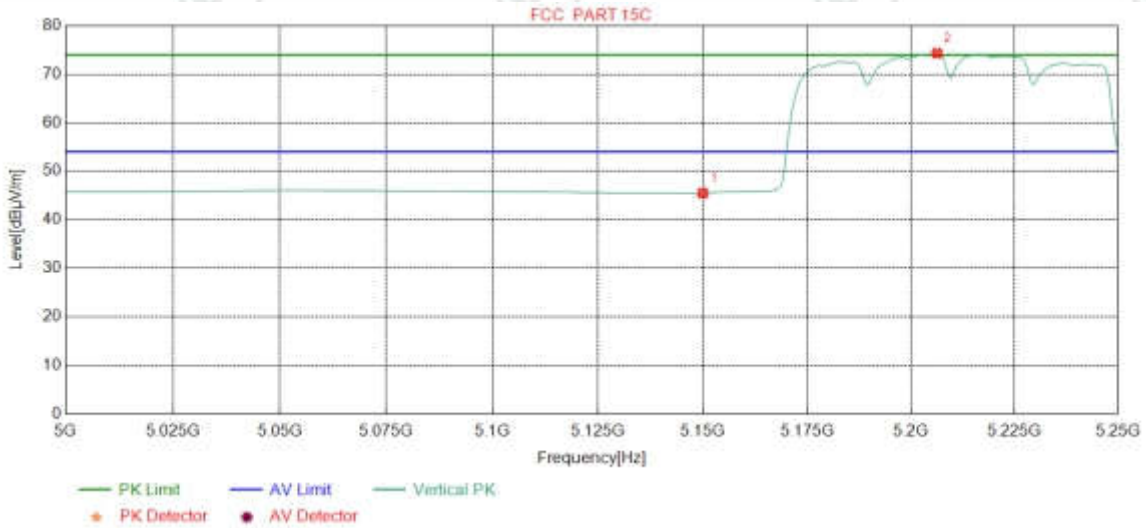

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 47.17 | 56.36 | 74.00 | 17.64 | Pass | Vertical |
| 2 | 5207.1339 | 34.71 | 15.54 | -40.56 | 82.62 | 92.31 | 74.00 | -18.31 | Pass | Vertical |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | Average | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.69 | 45.88 | 54.00 | 8.12 | Pass | Horizontal |
| 2 | 5206.1952 | 34.71 | 15.54 | -40.56 | 67.42 | 77.11 | 54.00 | -23.11 | Pass | Horizontal |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | Average | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5150.0000 | 34.65 | 15.08 | -40.54 | 36.28 | 45.47 | 54.00 | 8.53 | Pass | Vertical |
| 2 | 5206.1952 | 34.71 | 15.54 | -40.56 | 64.63 | 74.32 | 54.00 | -20.32 | Pass | Vertical |

Note:
1) Through Pre-scan transmitting mode with all kind of modulation and data rate, find the MCS0 is the worst case of 802.11a; MCS0 is the worst case of 802.11n(20M)(40M); MCS0 is the worst case of 802.11ac(20M)(40M)(80M); and then Only the worst case is recorded in the report.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level =Receiver Reading - Correct Factor
Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor
3) All modes and antenna are tested, and found the antenna 1 which is worst case for 802.11a/n(20M)(40M)/ac(20M)(40M)(80M),so only the worst case mode is recorded in the report.

# Appendix K): Unwanted Emissions in the Restricted Bands (Radiated Emission)

**Receiver Setup:**

| Frequency | Detector | RBW | VBW | Remark |
|---|---|---|---|---|
| 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average |

**Test Procedure:**

**Below 1GHz test procedure as below:**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

**Above 1GHz test procedure as below:**

g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre)
h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel
i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
j. Repeat above procedures until all frequencies measured was complete.

Limit:

| Frequency | Field strength (microvolt/meter) | Limit (dBμV/cm) | Remark | Measurement distance (cm) |
|---|---|---|---|---|
| 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| 1.705MHz-30MHz | 30 | - | - | 30 |
| 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1GHz | 500 | 54.0 | Average | 3 |

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test result: PASS

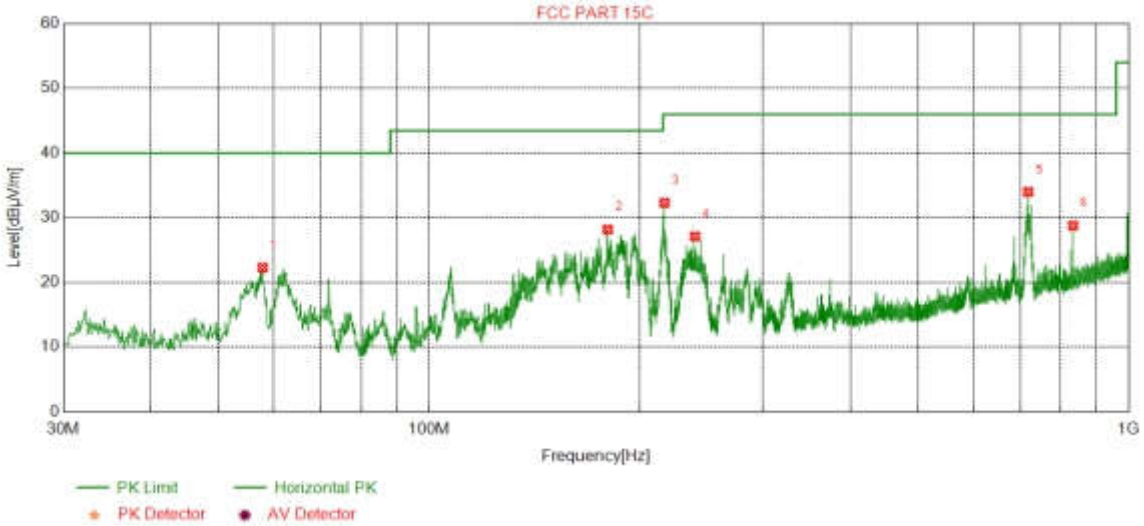
**Test Data:**

| | | | | | |
|---|---|---|---|---|---|
| **Product** | : | reMarkable paper tablet | **Model/Type reference** | : | RM102 |
| **Temperature** | : | 22℃ | **Humidity** | : | 49% |

**Radiated Emission below 1GHz**

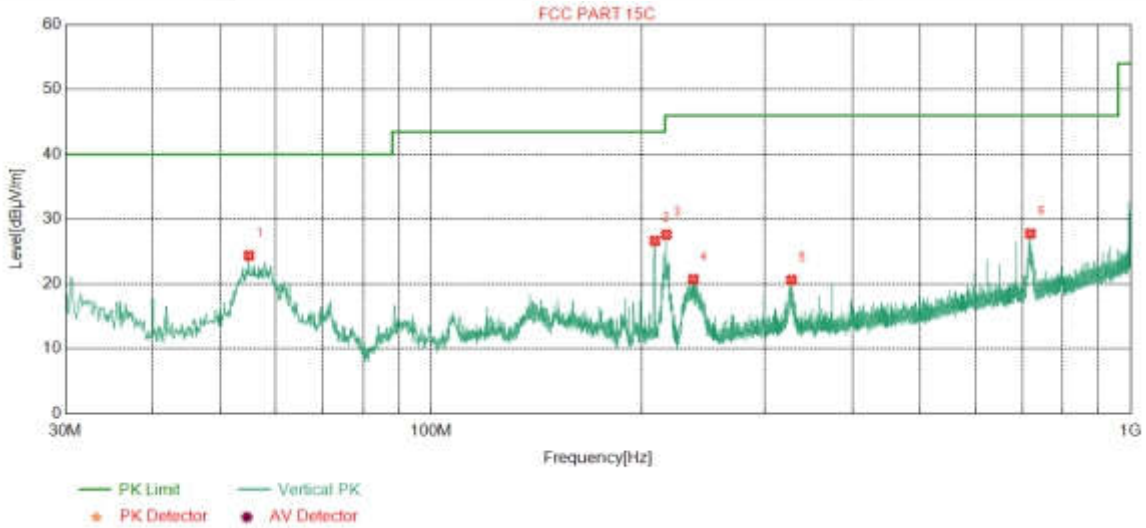
**Band-1**

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | QP | | |



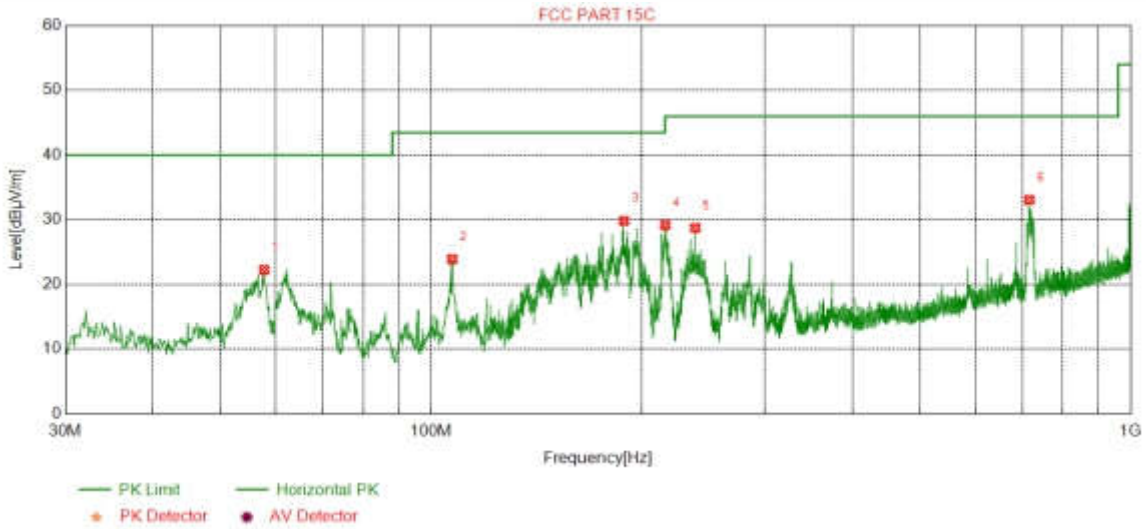

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.8418 | 11.95 | 0.87 | -32.06 | 41.51 | 22.27 | 40.00 | 17.73 | Pass | Horizontal |
| 2 | 180.0740 | 9.01 | 1.58 | -31.99 | 49.57 | 28.17 | 43.50 | 15.33 | Pass | Horizontal |
| 3 | 217.0347 | 11.34 | 1.76 | -31.95 | 51.14 | 32.29 | 46.00 | 13.71 | Pass | Horizontal |
| 4 | 239.9290 | 11.94 | 1.84 | -31.90 | 45.23 | 27.11 | 46.00 | 18.89 | Pass | Horizontal |
| 5 | 718.5749 | 20.00 | 3.21 | -32.07 | 42.86 | 34.00 | 46.00 | 12.00 | Pass | Horizontal |
| 6 | 832.9493 | 21.30 | 3.48 | -31.95 | 35.96 | 28.79 | 46.00 | 17.21 | Pass | Horizontal |

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | QP | | |



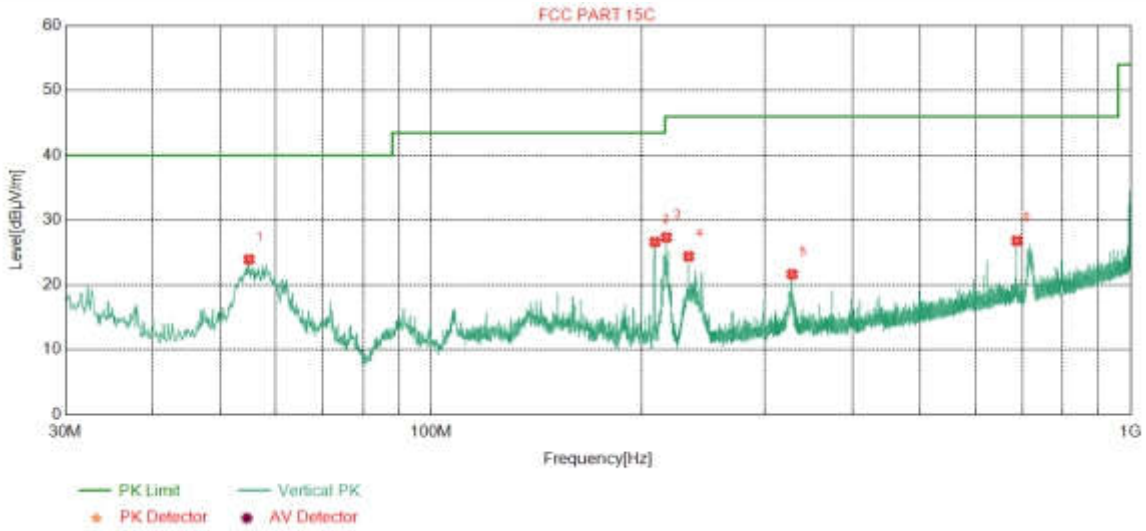

| Suspected List | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity |
| 1 | 54.9315 | 12.41 | 0.84 | -32.08 | 43.20 | 24.37 | 40.00 | 15.63 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.75 | 26.65 | 43.50 | 16.85 | Pass | Vertical |
| 3 | 216.9377 | 11.34 | 1.75 | -31.94 | 46.46 | 27.61 | 46.00 | 18.39 | Pass | Vertical |
| 4 | 237.1157 | 11.87 | 1.83 | -31.91 | 38.93 | 20.72 | 46.00 | 25.28 | Pass | Vertical |
| 5 | 327.6258 | 13.81 | 2.15 | -31.78 | 36.43 | 20.61 | 46.00 | 25.39 | Pass | Vertical |
| 6 | 718.8659 | 20.01 | 3.22 | -32.08 | 36.61 | 27.76 | 46.00 | 18.24 | Pass | Vertical |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | QP | | |



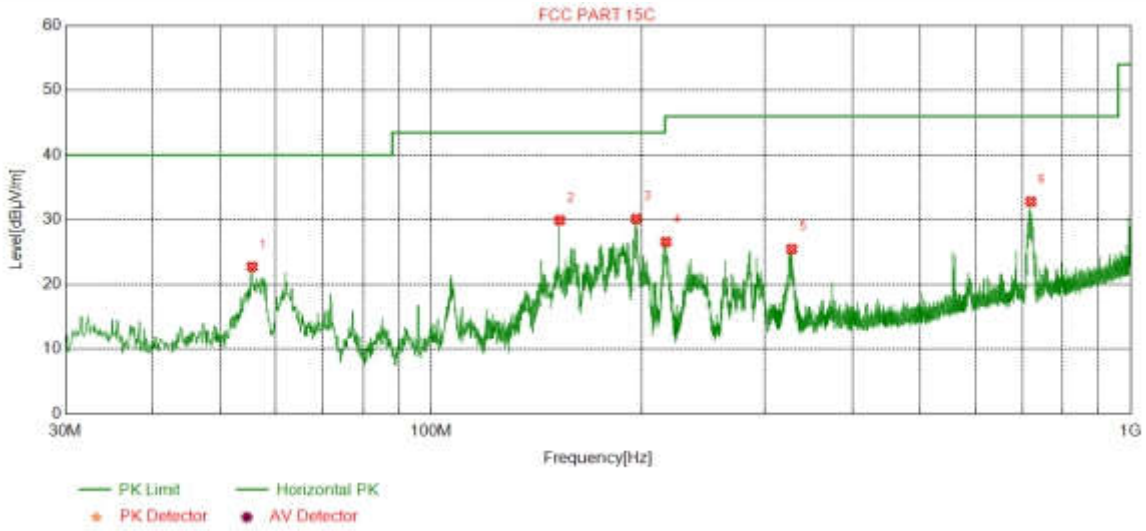

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.7448 | 11.96 | 0.87 | -32.05 | 41.47 | 22.25 | 40.00 | 17.75 | Pass | Horizontal |
| 2 | 107.2197 | 10.93 | 1.22 | -32.07 | 43.81 | 23.89 | 43.50 | 19.61 | Pass | Horizontal |
| 3 | 188.7079 | 9.83 | 1.61 | -31.98 | 50.35 | 29.81 | 43.50 | 13.69 | Pass | Horizontal |
| 4 | 216.1616 | 11.32 | 1.75 | -31.95 | 48.03 | 29.15 | 46.00 | 16.85 | Pass | Horizontal |
| 5 | 238.6679 | 11.91 | 1.83 | -31.90 | 46.89 | 28.73 | 46.00 | 17.27 | Pass | Horizontal |
| 6 | 716.5377 | 19.98 | 3.21 | -32.09 | 41.97 | 33.07 | 46.00 | 12.93 | Pass | Horizontal |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5180 |
|---|---|---|---|
| Remark: | QP | | |



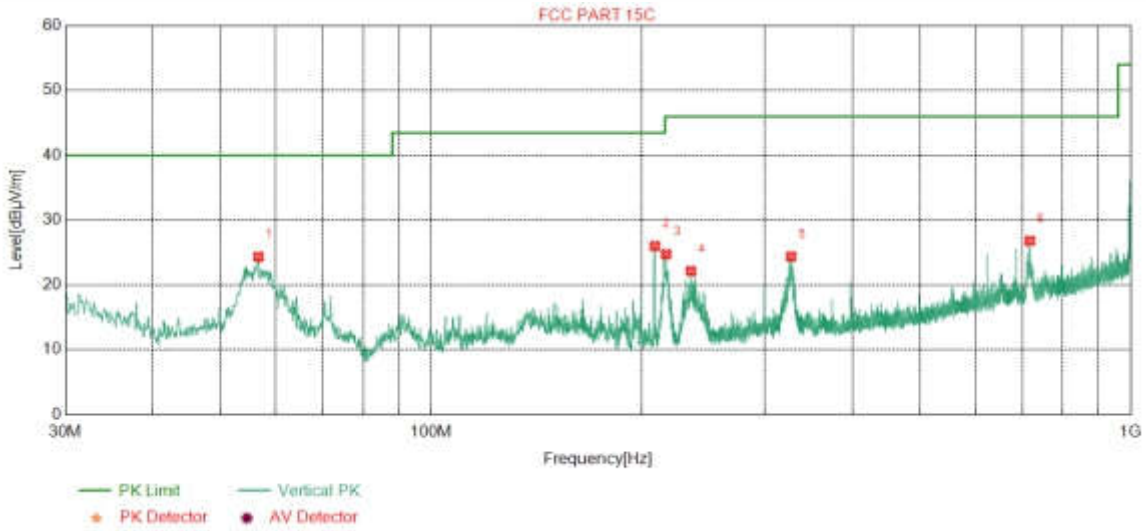

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 54.9315 | 12.41 | 0.84 | -32.08 | 42.75 | 23.92 | 40.00 | 16.08 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.73 | 26.63 | 43.50 | 16.87 | Pass | Vertical |
| 3 | 216.9377 | 11.34 | 1.75 | -31.94 | 46.18 | 27.33 | 46.00 | 18.67 | Pass | Vertical |
| 4 | 233.4293 | 11.77 | 1.81 | -31.90 | 42.73 | 24.41 | 46.00 | 21.59 | Pass | Vertical |
| 5 | 328.2078 | 13.82 | 2.15 | -31.77 | 37.44 | 21.64 | 46.00 | 24.36 | Pass | Vertical |
| 6 | 687.5318 | 19.70 | 3.14 | -32.06 | 36.03 | 26.81 | 46.00 | 19.19 | Pass | Vertical |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5230 |
|---|---|---|---|
| Remark: | QP | | |



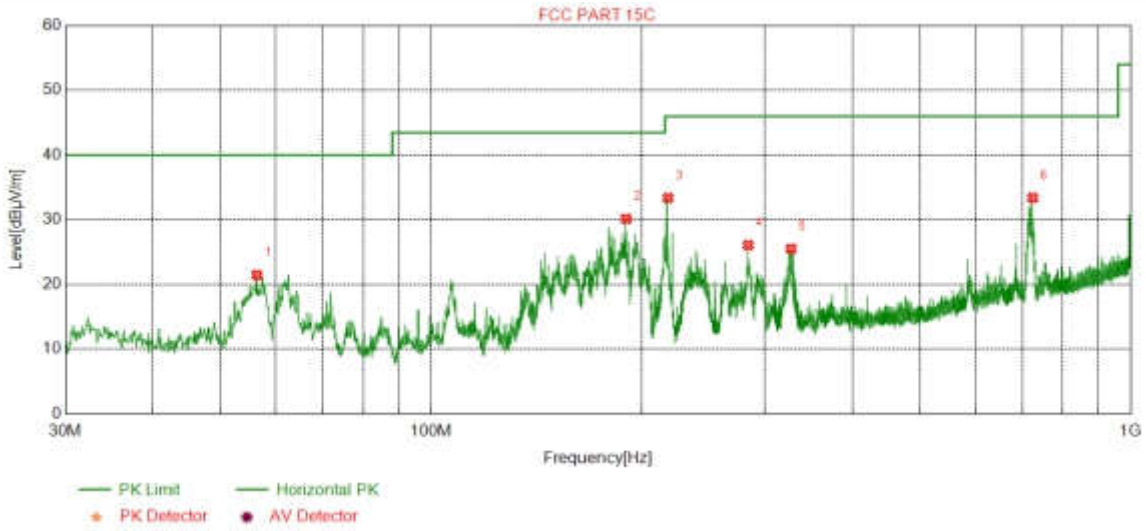

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 55.5136 | 12.32 | 0.85 | -32.08 | 41.63 | 22.72 | 40.00 | 17.28 | Pass | Horizontal |
| 2 | 152.7173 | 7.65 | 1.46 | -32.01 | 52.82 | 29.92 | 43.50 | 13.58 | Pass | Horizontal |
| 3 | 196.4686 | 10.56 | 1.65 | -31.95 | 49.87 | 30.13 | 43.50 | 13.37 | Pass | Horizontal |
| 4 | 216.6467 | 11.33 | 1.75 | -31.94 | 45.43 | 26.57 | 46.00 | 19.43 | Pass | Horizontal |
| 5 | 327.8198 | 13.81 | 2.15 | -31.77 | 41.26 | 25.45 | 46.00 | 20.55 | Pass | Horizontal |
| 6 | 720.0300 | 20.02 | 3.22 | -32.07 | 41.64 | 32.81 | 46.00 | 13.19 | Pass | Horizontal |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5230 |
|---|---|---|---|
| Remark: | QP | | |



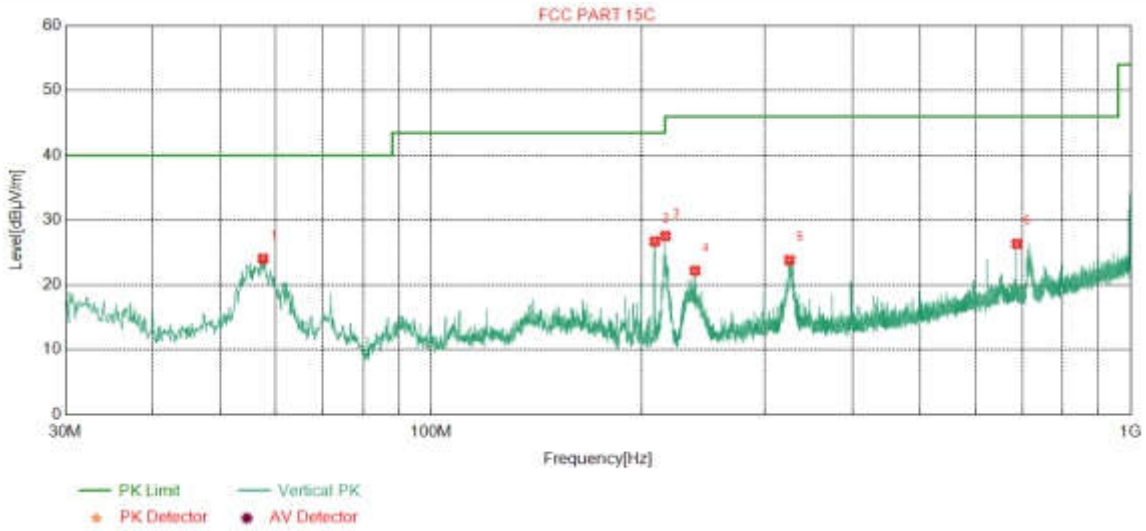

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 56.6777 | 12.13 | 0.86 | -32.06 | 43.40 | 24.33 | 40.00 | 15.67 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.09 | 25.99 | 43.50 | 17.51 | Pass | Vertical |
| 3 | 216.7437 | 11.34 | 1.75 | -31.95 | 43.58 | 24.72 | 46.00 | 21.28 | Pass | Vertical |
| 4 | 235.2725 | 11.82 | 1.82 | -31.91 | 40.40 | 22.13 | 46.00 | 23.87 | Pass | Vertical |
| 5 | 327.1407 | 13.80 | 2.15 | -31.78 | 40.21 | 24.38 | 46.00 | 21.62 | Pass | Vertical |
| 6 | 717.7018 | 19.99 | 3.21 | -32.08 | 35.67 | 26.79 | 46.00 | 19.21 | Pass | Vertical |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5240 |
|---|---|---|---|
| Remark: | QP | | |



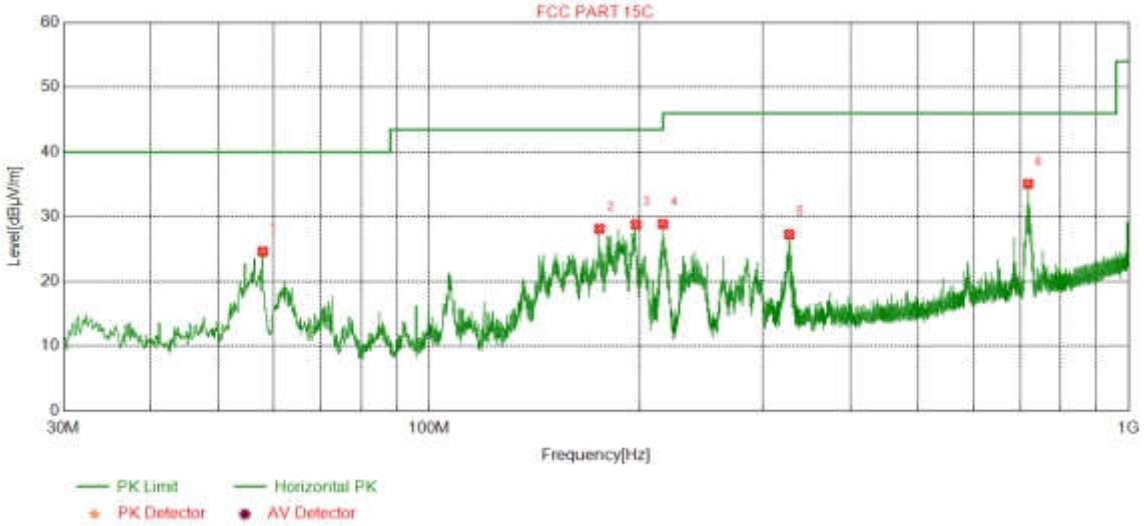

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 56.3866 | 12.18 | 0.86 | -32.07 | 40.47 | 21.44 | 40.00 | 18.56 | Pass | Horizontal |
| 2 | 190.0660 | 9.96 | 1.61 | -31.97 | 50.53 | 30.13 | 43.50 | 13.37 | Pass | Horizontal |
| 3 | 218.1018 | 11.37 | 1.76 | -31.95 | 52.19 | 33.37 | 46.00 | 12.63 | Pass | Horizontal |
| 4 | 283.9714 | 12.88 | 2.01 | -31.91 | 43.08 | 26.06 | 46.00 | 19.94 | Pass | Horizontal |
| 5 | 327.1407 | 13.80 | 2.15 | -31.78 | 41.32 | 25.49 | 46.00 | 20.51 | Pass | Horizontal |
| 6 | 724.3954 | 20.07 | 3.26 | -32.09 | 42.15 | 33.39 | 46.00 | 12.61 | Pass | Horizontal |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5240 |
|---|---|---|---|
| Remark: | QP | | |



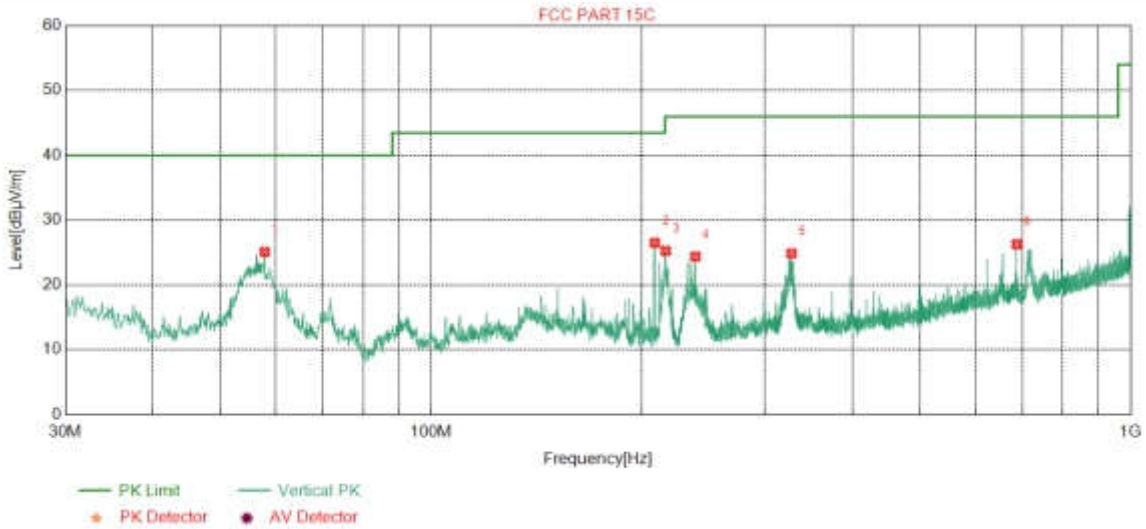

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.5508 | 11.99 | 0.87 | -32.06 | 43.23 | 24.03 | 40.00 | 15.97 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.80 | 26.70 | 43.50 | 16.80 | Pass | Vertical |
| 3 | 216.2586 | 11.32 | 1.75 | -31.95 | 46.43 | 27.55 | 46.00 | 18.45 | Pass | Vertical |
| 4 | 238.4738 | 11.90 | 1.83 | -31.90 | 40.36 | 22.19 | 46.00 | 23.81 | Pass | Vertical |
| 5 | 325.3945 | 13.76 | 2.14 | -31.79 | 39.70 | 23.81 | 46.00 | 22.19 | Pass | Vertical |
| 6 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.57 | 26.35 | 46.00 | 19.65 | Pass | Vertical |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | QP | | |



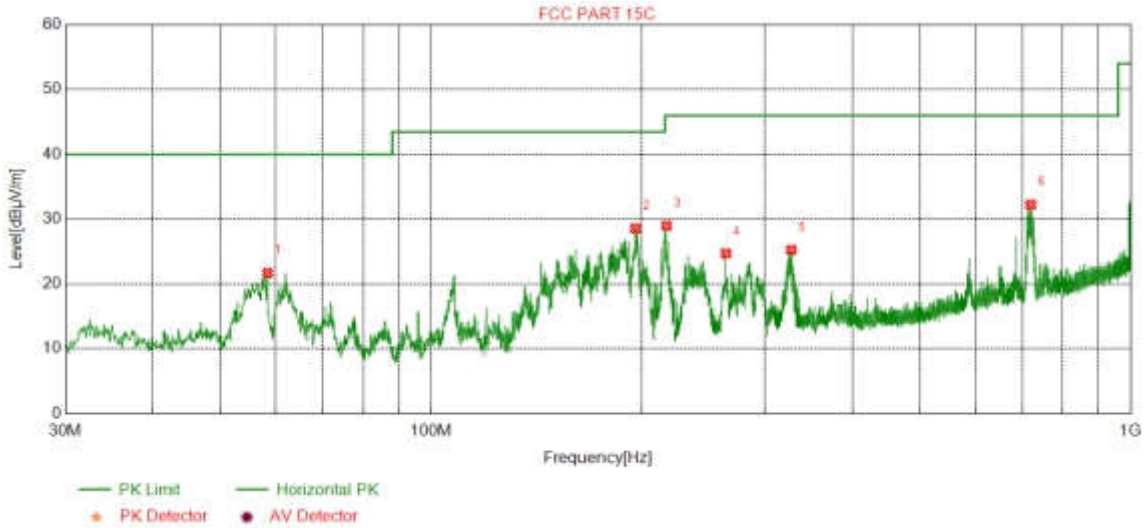

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.8418 | 11.95 | 0.87 | -32.06 | 43.85 | 24.61 | 40.00 | 15.39 | Pass | Horizontal |
| 2 | 175.2235 | 8.74 | 1.56 | -31.98 | 49.80 | 28.12 | 43.50 | 15.38 | Pass | Horizontal |
| 3 | 197.6328 | 10.68 | 1.66 | -31.96 | 48.41 | 28.79 | 43.50 | 14.71 | Pass | Horizontal |
| 4 | 215.9676 | 11.32 | 1.75 | -31.96 | 47.75 | 28.86 | 43.50 | 14.64 | Pass | Horizontal |
| 5 | 327.3347 | 13.80 | 2.15 | -31.78 | 43.09 | 27.26 | 46.00 | 18.74 | Pass | Horizontal |
| 6 | 718.3808 | 20.00 | 3.21 | -32.07 | 43.93 | 35.07 | 46.00 | 10.93 | Pass | Horizontal |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5190 |
|---|---|---|---|
| Remark: | QP | | |



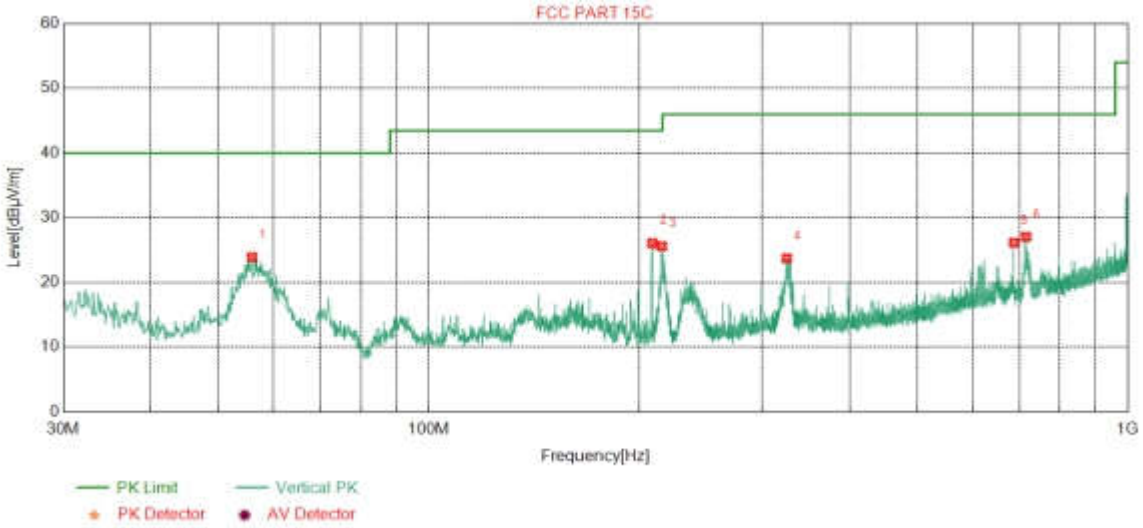

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.8418 | 11.95 | 0.87 | -32.06 | 44.33 | 25.09 | 40.00 | 14.91 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.59 | 26.49 | 43.50 | 17.01 | Pass | Vertical |
| 3 | 216.4526 | 11.33 | 1.75 | -31.95 | 44.11 | 25.24 | 46.00 | 20.76 | Pass | Vertical |
| 4 | 238.7649 | 11.91 | 1.83 | -31.90 | 42.54 | 24.38 | 46.00 | 21.62 | Pass | Vertical |
| 5 | 327.6258 | 13.81 | 2.15 | -31.78 | 40.66 | 24.84 | 46.00 | 21.16 | Pass | Vertical |
| 6 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.50 | 26.28 | 46.00 | 19.72 | Pass | Vertical |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | QP | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 58.4238 | 11.85 | 0.88 | -32.05 | 41.01 | 21.69 | 40.00 | 18.31 | Pass | Horizontal |
| 2 | 195.9836 | 10.52 | 1.65 | -31.96 | 48.33 | 28.54 | 43.50 | 14.96 | Pass | Horizontal |
| 3 | 217.1317 | 11.35 | 1.76 | -31.96 | 47.83 | 28.98 | 46.00 | 17.02 | Pass | Horizontal |
| 4 | 263.9874 | 12.48 | 1.94 | -31.88 | 42.15 | 24.69 | 46.00 | 21.31 | Pass | Horizontal |
| 5 | 327.4317 | 13.80 | 2.15 | -31.77 | 41.06 | 25.24 | 46.00 | 20.76 | Pass | Horizontal |
| 6 | 720.0300 | 20.02 | 3.22 | -32.07 | 41.05 | 32.22 | 46.00 | 13.78 | Pass | Horizontal |

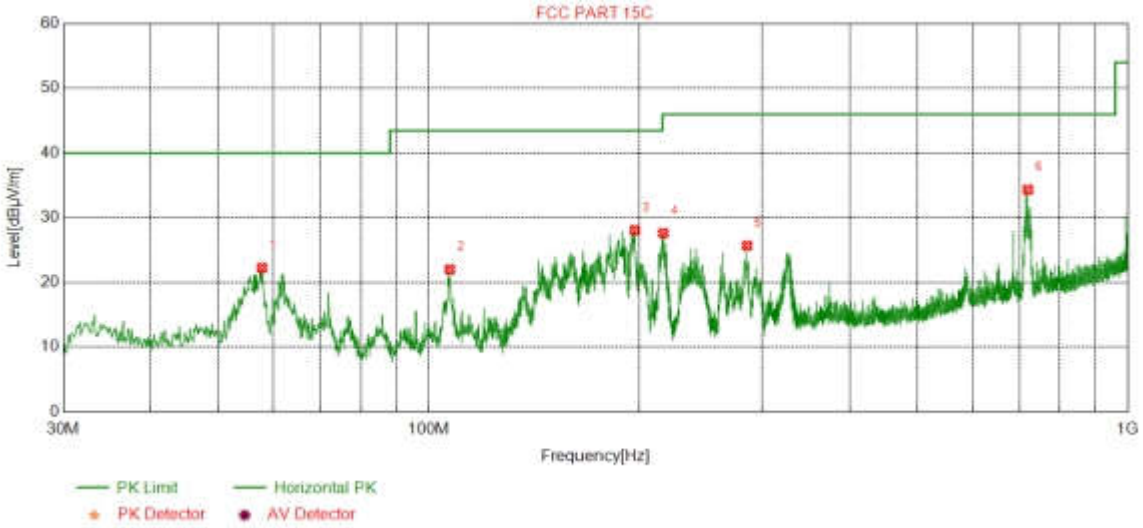
| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5210 |
|---|---|---|---|
| Remark: | QP | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 55.9016 | 12.26 | 0.85 | -32.08 | 42.86 | 23.89 | 40.00 | 16.11 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.16 | 26.06 | 43.50 | 17.44 | Pass | Vertical |
| 3 | 215.5796 | 11.31 | 1.75 | -31.96 | 44.50 | 25.60 | 43.50 | 17.90 | Pass | Vertical |
| 4 | 325.2975 | 13.76 | 2.14 | -31.80 | 39.63 | 23.73 | 46.00 | 22.27 | Pass | Vertical |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.35 | 26.13 | 46.00 | 19.87 | Pass | Vertical |
| 6 | 715.6646 | 19.97 | 3.20 | -32.09 | 35.97 | 27.05 | 46.00 | 18.95 | Pass | Vertical |

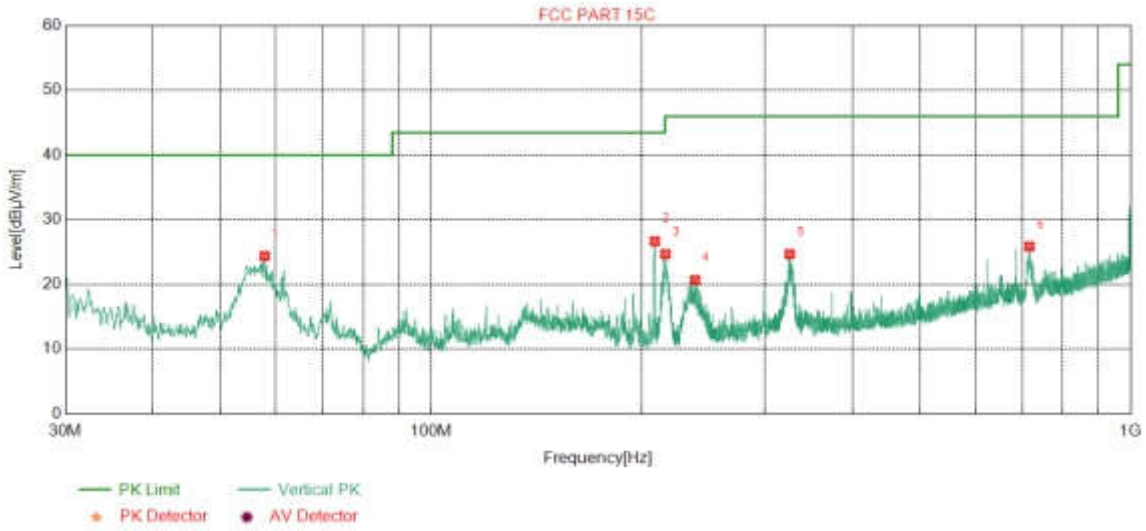
**Band-4**

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5785 |
|---|---|---|---|
| Remark: | QP | | |



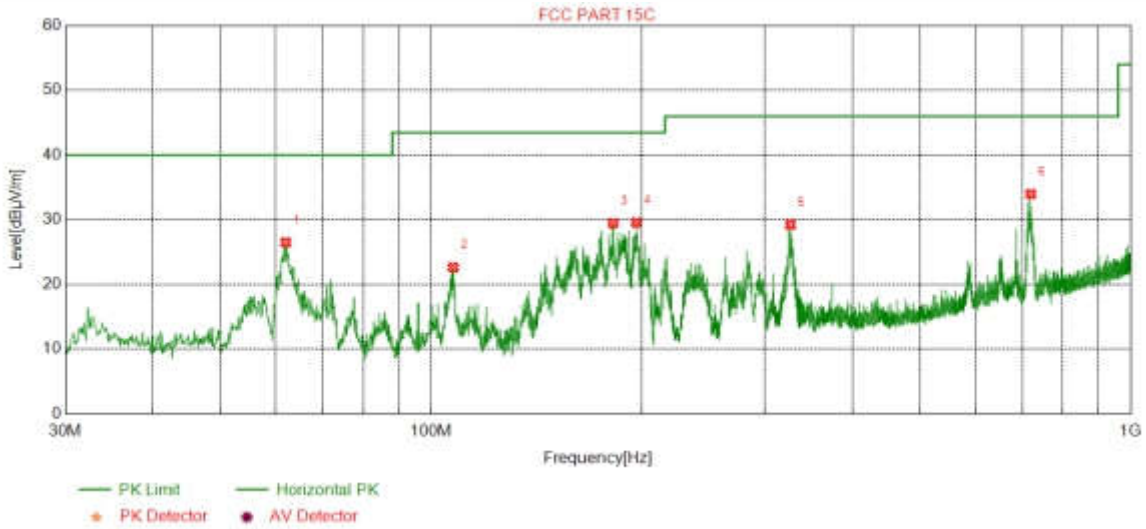

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.7448 | 11.96 | 0.87 | -32.05 | 41.46 | 22.24 | 40.00 | 17.76 | Pass | Horizontal |
| 2 | 107.2197 | 10.93 | 1.22 | -32.07 | 41.91 | 21.99 | 43.50 | 21.51 | Pass | Horizontal |
| 3 | 197.2447 | 10.64 | 1.65 | -31.95 | 47.75 | 28.09 | 43.50 | 15.41 | Pass | Horizontal |
| 4 | 216.6467 | 11.33 | 1.75 | -31.94 | 46.48 | 27.62 | 46.00 | 18.38 | Pass | Horizontal |
| 5 | 285.4265 | 12.91 | 2.01 | -31.90 | 42.66 | 25.68 | 46.00 | 20.32 | Pass | Horizontal |
| 6 | 720.0300 | 20.02 | 3.22 | -32.07 | 43.16 | 34.33 | 46.00 | 11.67 | Pass | Horizontal |

| Mode: | 802.11 a(HT20) Transmitting | Channel: | 5785 |
|---|---|---|---|
| Remark: | QP | | |



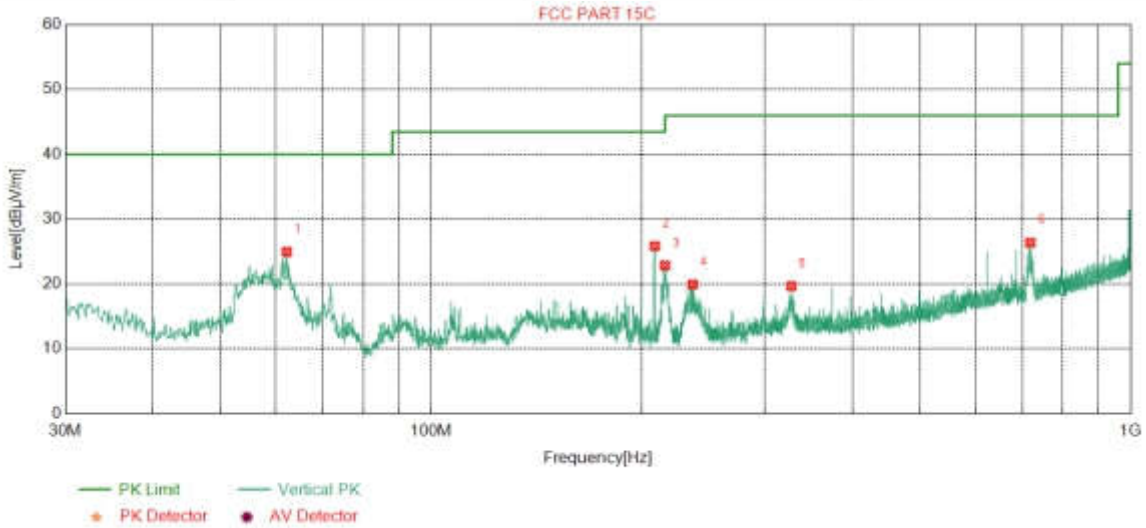

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 57.8418 | 11.95 | 0.87 | -32.06 | 43.62 | 24.38 | 40.00 | 15.62 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.76 | 26.66 | 43.50 | 16.84 | Pass | Vertical |
| 3 | 216.2586 | 11.32 | 1.75 | -31.95 | 43.56 | 24.68 | 46.00 | 21.32 | Pass | Vertical |
| 4 | 238.4738 | 11.90 | 1.83 | -31.90 | 38.86 | 20.69 | 46.00 | 25.31 | Pass | Vertical |
| 5 | 325.6856 | 13.77 | 2.14 | -31.79 | 40.56 | 24.68 | 46.00 | 21.32 | Pass | Vertical |
| 6 | 716.6347 | 19.98 | 3.21 | -32.09 | 34.77 | 25.87 | 46.00 | 20.13 | Pass | Vertical |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5745 |
|---|---|---|---|
| Remark: | QP | | |



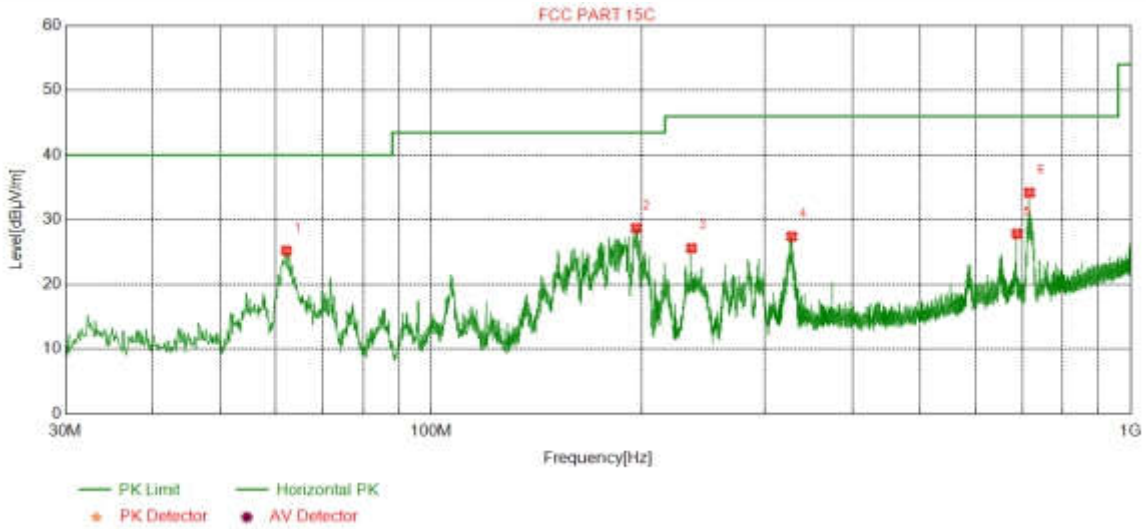

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.0132 | 11.08 | 0.91 | -32.05 | 46.55 | 26.49 | 40.00 | 13.51 | Pass | Horizontal |
| 2 | 107.6078 | 10.92 | 1.22 | -32.06 | 42.54 | 22.62 | 43.50 | 20.88 | Pass | Horizontal |
| 3 | 182.1112 | 9.20 | 1.59 | -31.99 | 50.66 | 29.46 | 43.50 | 14.04 | Pass | Horizontal |
| 4 | 196.5657 | 10.57 | 1.65 | -31.95 | 49.27 | 29.54 | 43.50 | 13.96 | Pass | Horizontal |
| 5 | 326.4616 | 13.78 | 2.15 | -31.79 | 45.06 | 29.20 | 46.00 | 16.80 | Pass | Horizontal |
| 6 | 719.9330 | 20.02 | 3.22 | -32.07 | 42.80 | 33.97 | 46.00 | 12.03 | Pass | Horizontal |

| Mode: | 802.11 n(HT20) Transmitting | Channel: | 5745 |
|---|---|---|---|
| Remark: | QP | | |



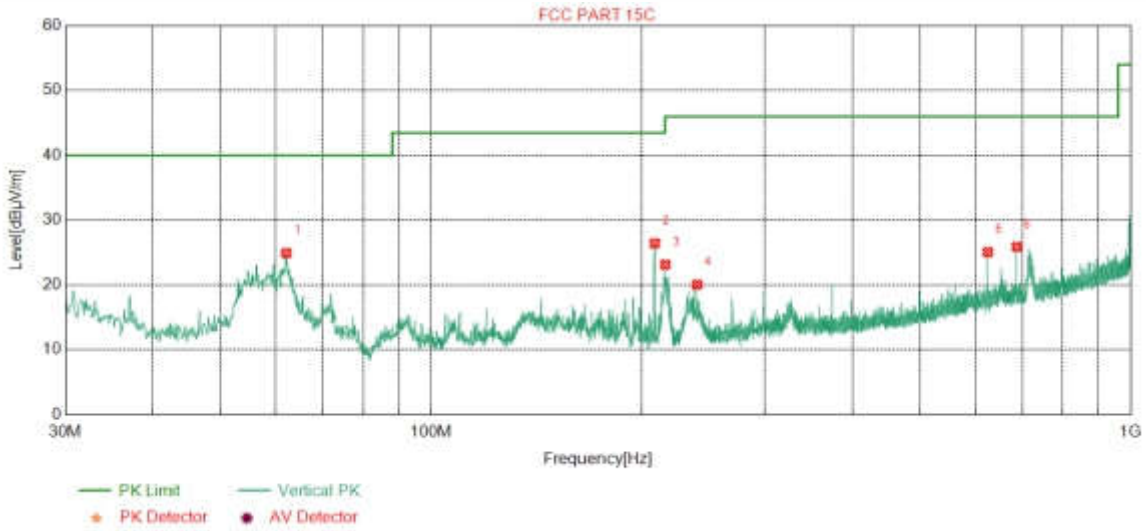

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.2072 | 11.03 | 0.91 | -32.05 | 45.06 | 24.95 | 40.00 | 15.05 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 44.93 | 25.83 | 43.50 | 17.67 | Pass | Vertical |
| 3 | 215.9676 | 11.32 | 1.75 | -31.96 | 41.74 | 22.85 | 43.50 | 20.65 | Pass | Vertical |
| 4 | 236.6307 | 11.85 | 1.82 | -31.89 | 38.13 | 19.91 | 46.00 | 26.09 | Pass | Vertical |
| 5 | 327.4317 | 13.80 | 2.15 | -31.77 | 35.48 | 19.66 | 46.00 | 26.34 | Pass | Vertical |
| 6 | 718.8659 | 20.01 | 3.22 | -32.08 | 35.21 | 26.36 | 46.00 | 19.64 | Pass | Vertical |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5795 |
|---|---|---|---|
| Remark: | QP | | |



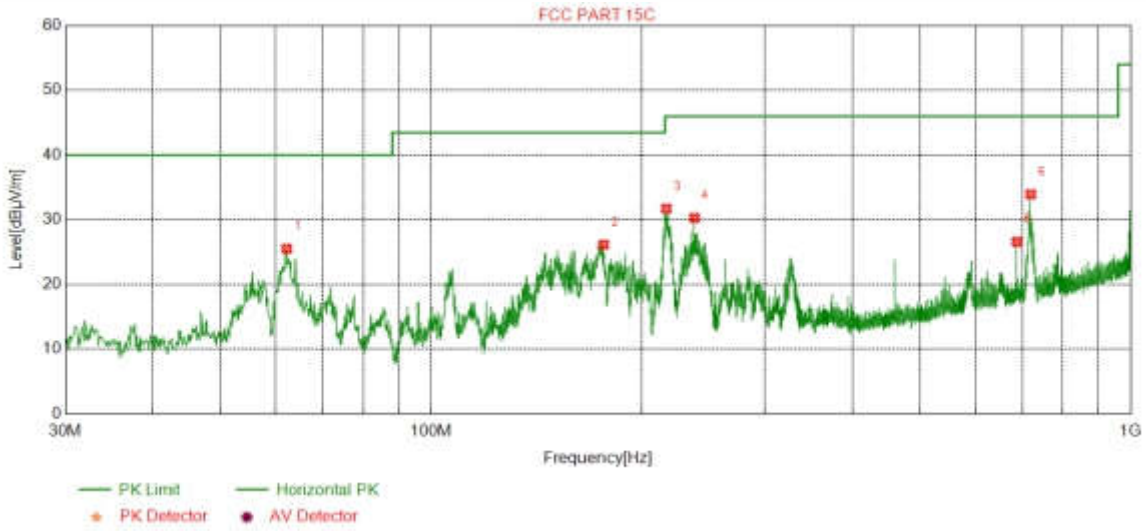

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.1102 | 11.05 | 0.91 | -32.04 | 45.29 | 25.21 | 40.00 | 14.79 | Pass | Horizontal |
| 2 | 196.3716 | 10.56 | 1.65 | -31.96 | 48.45 | 28.70 | 43.50 | 14.80 | Pass | Horizontal |
| 3 | 235.6606 | 11.83 | 1.82 | -31.90 | 43.85 | 25.60 | 46.00 | 20.40 | Pass | Horizontal |
| 4 | 327.8198 | 13.81 | 2.15 | -31.77 | 43.22 | 27.41 | 46.00 | 18.59 | Pass | Horizontal |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 37.05 | 27.83 | 46.00 | 18.17 | Pass | Horizontal |
| 6 | 716.8287 | 19.99 | 3.21 | -32.10 | 43.09 | 34.19 | 46.00 | 11.81 | Pass | Horizontal |

| Mode: | 802.11 n(HT40) Transmitting | Channel: | 5795 |
|---|---|---|---|
| Remark: | QP | | |



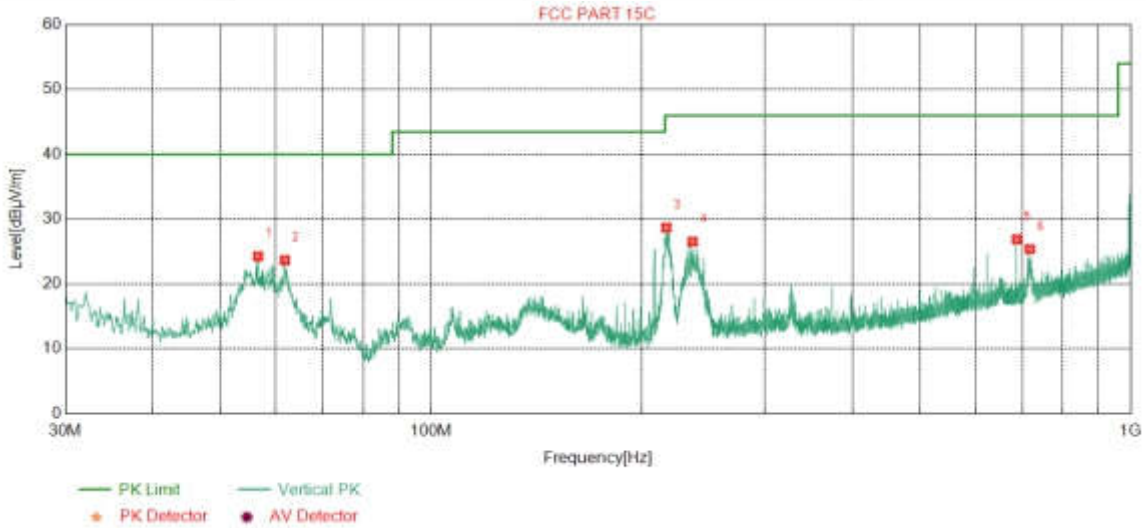

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.1102 | 11.05 | 0.91 | -32.04 | 44.98 | 24.90 | 40.00 | 15.10 | Pass | Vertical |
| 2 | 208.8859 | 11.13 | 1.71 | -31.94 | 45.52 | 26.42 | 43.50 | 17.08 | Pass | Vertical |
| 3 | 216.1616 | 11.32 | 1.75 | -31.95 | 42.01 | 23.13 | 46.00 | 22.87 | Pass | Vertical |
| 4 | 240.0260 | 11.94 | 1.84 | -31.90 | 38.16 | 20.04 | 46.00 | 25.96 | Pass | Vertical |
| 5 | 625.0575 | 19.20 | 2.97 | -31.98 | 34.86 | 25.05 | 46.00 | 20.95 | Pass | Vertical |
| 6 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.09 | 25.87 | 46.00 | 20.13 | Pass | Vertical |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5785 |
|---|---|---|---|
| Remark: | QP | | |



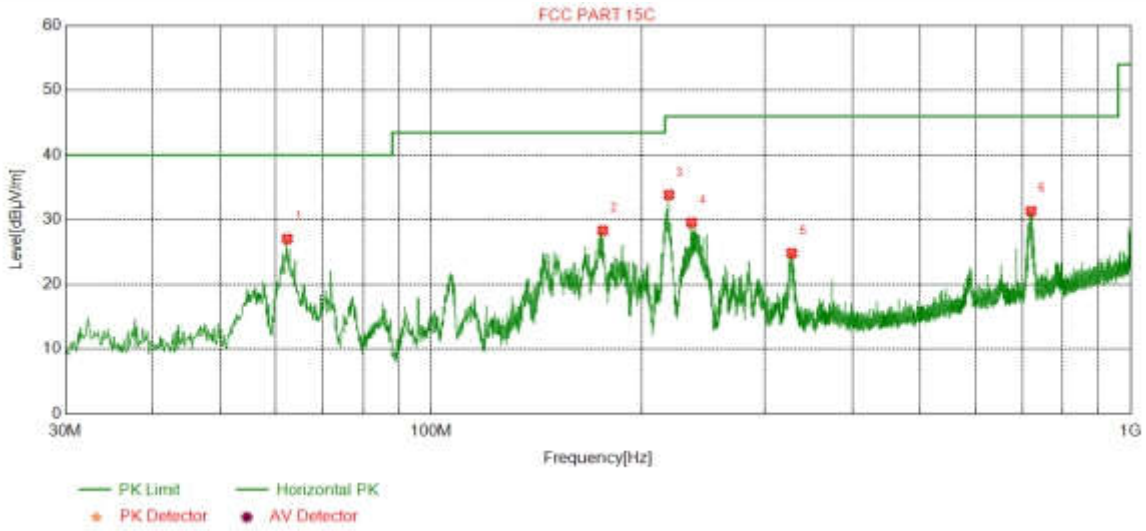

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.2072 | 11.03 | 0.91 | -32.05 | 45.61 | 25.50 | 40.00 | 14.50 | Pass | Horizontal |
| 2 | 176.4846 | 8.81 | 1.56 | -31.98 | 47.74 | 26.13 | 43.50 | 17.37 | Pass | Horizontal |
| 3 | 216.9377 | 11.34 | 1.75 | -31.94 | 50.56 | 31.71 | 46.00 | 14.29 | Pass | Horizontal |
| 4 | 237.9888 | 11.89 | 1.83 | -31.90 | 48.45 | 30.27 | 46.00 | 15.73 | Pass | Horizontal |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.81 | 26.59 | 46.00 | 19.41 | Pass | Horizontal |
| 6 | 720.0300 | 20.02 | 3.22 | -32.07 | 42.77 | 33.94 | 46.00 | 12.06 | Pass | Horizontal |

| Mode: | 802.11 ac(HT20) Transmitting | Channel: | 5785 |
|---|---|---|---|
| Remark: | QP | | |



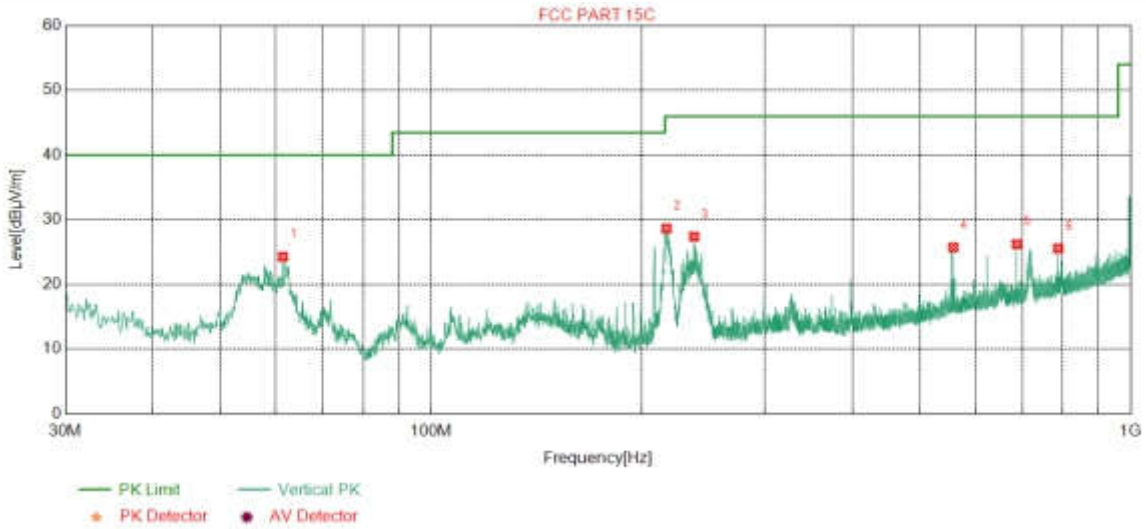

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 56.5807 | 12.15 | 0.86 | -32.07 | 43.32 | 24.26 | 40.00 | 15.74 | Pass | Vertical |
| 2 | 61.8192 | 11.13 | 0.91 | -32.05 | 43.66 | 23.65 | 40.00 | 16.35 | Pass | Vertical |
| 3 | 216.9377 | 11.34 | 1.75 | -31.94 | 47.53 | 28.68 | 46.00 | 17.32 | Pass | Vertical |
| 4 | 236.5337 | 11.85 | 1.82 | -31.90 | 44.76 | 26.53 | 46.00 | 19.47 | Pass | Vertical |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 36.10 | 26.88 | 46.00 | 19.12 | Pass | Vertical |
| 6 | 717.7988 | 20.00 | 3.21 | -32.09 | 34.24 | 25.36 | 46.00 | 20.64 | Pass | Vertical |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5795 |
|---|---|---|---|
| Remark: | QP | | |



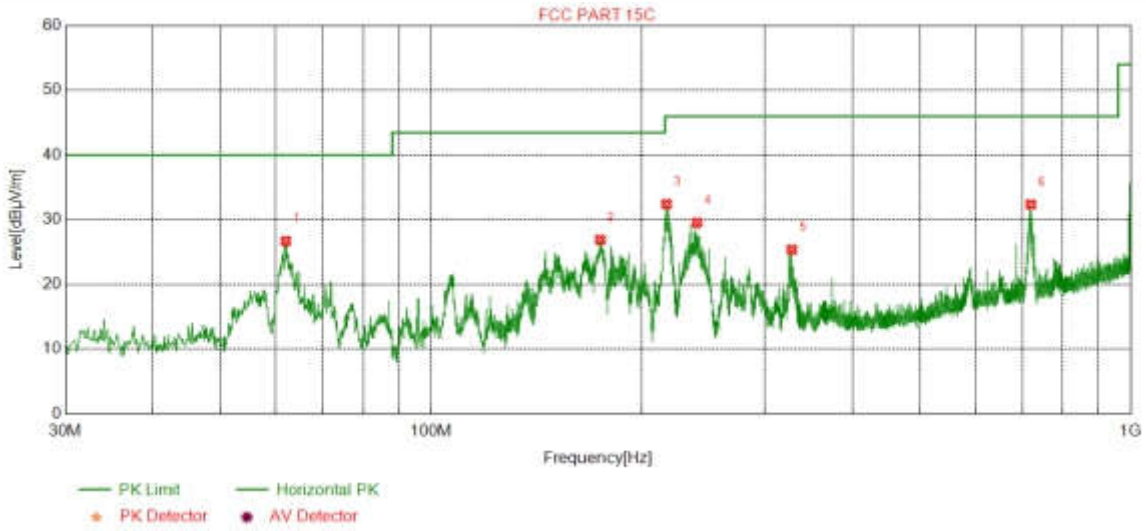

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.3042 | 11.00 | 0.91 | -32.04 | 47.16 | 27.03 | 40.00 | 12.97 | Pass | Horizontal |
| 2 | 175.9996 | 8.78 | 1.56 | -31.98 | 49.98 | 28.34 | 43.50 | 15.16 | Pass | Horizontal |
| 3 | 218.7809 | 11.39 | 1.76 | -31.95 | 52.63 | 33.83 | 46.00 | 12.17 | Pass | Horizontal |
| 4 | 235.6606 | 11.83 | 1.82 | -31.90 | 47.80 | 29.55 | 46.00 | 16.45 | Pass | Horizontal |
| 5 | 327.8198 | 13.81 | 2.15 | -31.77 | 40.62 | 24.81 | 46.00 | 21.19 | Pass | Horizontal |
| 6 | 720.5151 | 20.03 | 3.22 | -32.07 | 40.15 | 31.33 | 46.00 | 14.67 | Pass | Horizontal |

| Mode: | 802.11 ac(HT40) Transmitting | Channel: | 5795 |
|---|---|---|---|
| Remark: | QP | | |



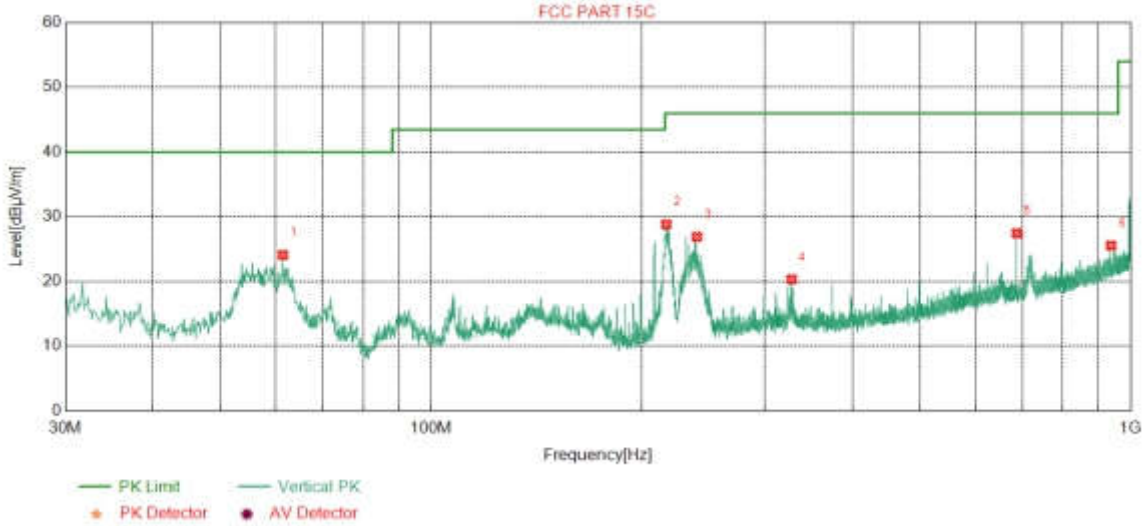

| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 61.4311 | 11.23 | 0.91 | -32.05 | 44.19 | 24.28 | 40.00 | 15.72 | Pass | Vertical |
| 2 | 217.0347 | 11.34 | 1.76 | -31.95 | 47.48 | 28.63 | 46.00 | 17.37 | Pass | Vertical |
| 3 | 237.6978 | 11.88 | 1.83 | -31.90 | 45.58 | 27.39 | 46.00 | 18.61 | Pass | Vertical |
| 4 | 557.8298 | 18.16 | 2.81 | -31.98 | 36.73 | 25.72 | 46.00 | 20.28 | Pass | Vertical |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 35.45 | 26.23 | 46.00 | 19.77 | Pass | Vertical |
| 6 | 787.7428 | 20.77 | 3.36 | -31.99 | 33.43 | 25.57 | 46.00 | 20.43 | Pass | Vertical |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5775 |
|---|---|---|---|
| Remark: | QP | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 62.0132 | 11.08 | 0.91 | -32.05 | 46.75 | 26.69 | 40.00 | 13.31 | Pass | Horizontal |
| 2 | 174.5445 | 8.70 | 1.55 | -31.97 | 48.61 | 26.89 | 43.50 | 16.61 | Pass | Horizontal |
| 3 | 217.0347 | 11.34 | 1.76 | -31.95 | 51.27 | 32.42 | 46.00 | 13.58 | Pass | Horizontal |
| 4 | 239.9290 | 11.94 | 1.84 | -31.90 | 47.65 | 29.53 | 46.00 | 16.47 | Pass | Horizontal |
| 5 | 327.9168 | 13.81 | 2.15 | -31.77 | 41.17 | 25.36 | 46.00 | 20.64 | Pass | Horizontal |
| 6 | 719.9330 | 20.02 | 3.22 | -32.07 | 41.19 | 32.36 | 46.00 | 13.64 | Pass | Horizontal |

| Mode: | 802.11 ac(HT80) Transmitting | Channel: | 5775 |
|---|---|---|---|
| Remark: | QP | | |




| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 61.4311 | 11.23 | 0.91 | -32.05 | 43.99 | 24.08 | 40.00 | 15.92 | Pass | Vertical |
| 2 | 216.8407 | 11.34 | 1.75 | -31.95 | 47.67 | 28.81 | 46.00 | 17.19 | Pass | Vertical |
| 3 | 239.9290 | 11.94 | 1.84 | -31.90 | 45.01 | 26.89 | 46.00 | 19.11 | Pass | Vertical |
| 4 | 327.7228 | 13.81 | 2.15 | -31.78 | 36.13 | 20.31 | 46.00 | 25.69 | Pass | Vertical |
| 5 | 687.5318 | 19.70 | 3.14 | -32.06 | 36.65 | 27.43 | 46.00 | 18.57 | Pass | Vertical |
| 6 | 937.5258 | 22.33 | 3.67 | -31.29 | 30.83 | 25.54 | 46.00 | 20.46 | Pass | Vertical |

## Transmitter Emission Above 1GHz

### Band-1

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 60.38 | 48.65 | 74.00 | 25.35 | Pass | H | Peak |
| 2 | 2590.0000 | 32.54 | 4.79 | -42.34 | 47.67 | 42.66 | 74.00 | 31.34 | Pass | H | Peak |
| 3 | 4077.5578 | 33.91 | 6.29 | -40.81 | 47.66 | 47.05 | 74.00 | 26.95 | Pass | H | Peak |
| 4 | 8128.5086 | 36.45 | 6.47 | -40.88 | 48.19 | 50.23 | 74.00 | 23.77 | Pass | H | Peak |
| 5 | 10360.0000 | 38.30 | 7.29 | -40.96 | 44.59 | 49.22 | 74.00 | 24.78 | Pass | H | Peak |
| 6 | 15540.0000 | 40.98 | 10.10 | -43.02 | 42.50 | 50.56 | 74.00 | 23.44 | Pass | H | Peak |
| 7 | 1197.4697 | 28.10 | 3.04 | -42.89 | 53.12 | 41.37 | 74.00 | 32.63 | Pass | V | Peak |
| 8 | 2590.0000 | 32.54 | 4.79 | -42.34 | 48.03 | 43.02 | 74.00 | 30.98 | Pass | V | Peak |
| 9 | 4055.0055 | 33.88 | 6.32 | -40.80 | 47.89 | 47.29 | 74.00 | 26.71 | Pass | V | Peak |
| 10 | 9034.0023 | 37.69 | 6.78 | -40.69 | 47.16 | 50.94 | 74.00 | 23.06 | Pass | V | Peak |
| 11 | 10360.0000 | 38.30 | 7.29 | -40.96 | 44.90 | 49.53 | 74.00 | 24.47 | Pass | V | Peak |
| 12 | 15540.0000 | 40.98 | 10.10 | -43.02 | 42.76 | 50.82 | 74.00 | 23.18 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 3.04 | -42.88 | 60.94 | 49.19 | 74.00 | 24.81 | Pass | H | Peak |
| 2 | 2600.0000 | 32.56 | 4.77 | -42.34 | 48.90 | 43.89 | 74.00 | 30.11 | Pass | H | Peak |
| 3 | 4168.8669 | 34.04 | 6.26 | -40.83 | 48.08 | 47.55 | 74.00 | 26.45 | Pass | H | Peak |
| 4 | 8416.0277 | 36.57 | 6.70 | -40.64 | 47.51 | 50.14 | 74.00 | 23.86 | Pass | H | Peak |
| 5 | 10400.0000 | 38.36 | 7.54 | -41.02 | 45.02 | 49.90 | 74.00 | 24.10 | Pass | H | Peak |
| 6 | 15600.0000 | 41.10 | 9.80 | -43.06 | 41.83 | 49.67 | 74.00 | 24.33 | Pass | H | Peak |
| 7 | 1595.1595 | 29.03 | 3.59 | -42.89 | 57.71 | 47.44 | 74.00 | 26.56 | Pass | V | Peak |
| 8 | 2600.0000 | 32.56 | 4.77 | -42.34 | 51.85 | 46.84 | 74.00 | 27.16 | Pass | V | Peak |
| 9 | 4387.2387 | 34.34 | 6.72 | -40.87 | 48.32 | 48.51 | 74.00 | 25.49 | Pass | V | Peak |
| 10 | 8496.5331 | 36.60 | 6.64 | -40.56 | 47.33 | 50.01 | 74.00 | 23.99 | Pass | V | Peak |
| 11 | 10400.0000 | 38.36 | 7.54 | -41.02 | 45.54 | 50.42 | 74.00 | 23.58 | Pass | V | Peak |
| 12 | 15600.0000 | 41.10 | 9.80 | -43.06 | 42.97 | 50.81 | 74.00 | 23.19 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.2695 | 28.10 | 3.04 | -42.89 | 60.01 | 48.26 | 74.00 | 25.74 | Pass | H | Peak |
| 2 | 2620.0000 | 32.59 | 4.80 | -42.32 | 47.22 | 42.29 | 74.00 | 31.71 | Pass | H | Peak |
| 3 | 4727.7228 | 34.50 | 7.18 | -40.72 | 47.19 | 48.15 | 74.00 | 25.85 | Pass | H | Peak |
| 4 | 8572.4382 | 36.76 | 6.58 | -40.58 | 47.22 | 49.98 | 74.00 | 24.02 | Pass | H | Peak |
| 5 | 10480.0000 | 38.47 | 7.45 | -41.15 | 44.17 | 48.94 | 74.00 | 25.06 | Pass | H | Peak |
| 6 | 15720.0000 | 41.34 | 10.45 | -43.15 | 41.87 | 50.51 | 74.00 | 23.49 | Pass | H | Peak |
| 7 | 1202.9703 | 28.10 | 3.05 | -42.89 | 52.36 | 40.62 | 74.00 | 33.38 | Pass | V | Peak |
| 8 | 2620.0000 | 32.59 | 4.80 | -42.32 | 48.10 | 43.17 | 74.00 | 30.83 | Pass | V | Peak |
| 9 | 4550.6051 | 34.50 | 6.88 | -40.87 | 46.70 | 47.21 | 74.00 | 26.79 | Pass | V | Peak |
| 10 | 8298.7199 | 36.52 | 6.49 | -40.74 | 47.28 | 49.55 | 74.00 | 24.45 | Pass | V | Peak |
| 11 | 10480.0000 | 38.47 | 7.45 | -41.15 | 44.25 | 49.02 | 74.00 | 24.98 | Pass | V | Peak |
| 12 | 15720.0000 | 41.34 | 10.45 | -43.15 | 42.08 | 50.72 | 74.00 | 23.28 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1200.2200 | 28.10 | 3.04 | -42.89 | 59.36 | 47.61 | 74.00 | 26.39 | Pass | H | Peak |
| 2 | 2590.0000 | 32.54 | 4.79 | -42.34 | 47.25 | 42.24 | 74.00 | 31.76 | Pass | H | Peak |
| 3 | 4459.8460 | 34.44 | 6.65 | -40.89 | 46.67 | 46.87 | 74.00 | 27.13 | Pass | H | Peak |
| 4 | 8399.1599 | 36.56 | 6.70 | -40.65 | 46.09 | 48.70 | 74.00 | 25.30 | Pass | H | Peak |
| 5 | 10360.0000 | 38.30 | 7.29 | -40.96 | 43.89 | 48.52 | 74.00 | 25.48 | Pass | H | Peak |
| 6 | 15540.0000 | 40.98 | 10.10 | -43.02 | 42.55 | 50.61 | 74.00 | 23.39 | Pass | H | Peak |
| 7 | 1397.6898 | 28.30 | 3.33 | -42.68 | 57.02 | 45.97 | 74.00 | 28.03 | Pass | V | Peak |
| 8 | 2590.0000 | 32.54 | 4.79 | -42.34 | 51.94 | 46.93 | 74.00 | 27.07 | Pass | V | Peak |
| 9 | 4551.1551 | 34.50 | 6.88 | -40.87 | 46.84 | 47.35 | 74.00 | 26.65 | Pass | V | Peak |
| 10 | 8104.7403 | 36.44 | 6.55 | -40.91 | 47.76 | 49.84 | 74.00 | 24.16 | Pass | V | Peak |
| 11 | 10360.0000 | 38.30 | 7.29 | -40.96 | 44.64 | 49.27 | 74.00 | 24.73 | Pass | V | Peak |
| 12 | 15540.0000 | 40.98 | 10.10 | -43.02 | 42.70 | 50.76 | 74.00 | 23.24 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1192.5193 | 28.09 | 3.04 | -42.88 | 58.88 | 47.13 | 74.00 | 26.87 | Pass | H | Peak |
| 2 | 2600.0000 | 32.56 | 4.77 | -42.34 | 47.66 | 42.65 | 74.00 | 31.35 | Pass | H | Peak |
| 3 | 4121.0121 | 33.97 | 6.25 | -40.81 | 47.35 | 46.76 | 74.00 | 27.24 | Pass | H | Peak |
| 4 | 8399.1599 | 36.56 | 6.70 | -40.65 | 47.08 | 49.69 | 74.00 | 24.31 | Pass | H | Peak |
| 5 | 10400.0000 | 38.36 | 7.54 | -41.02 | 44.70 | 49.58 | 74.00 | 24.42 | Pass | H | Peak |
| 6 | 15600.0000 | 41.10 | 9.80 | -43.06 | 42.76 | 50.60 | 74.00 | 23.40 | Pass | H | Peak |
| 7 | 1200.2200 | 28.10 | 3.04 | -42.89 | 51.89 | 40.14 | 74.00 | 33.86 | Pass | V | Peak |
| 8 | 2600.0000 | 32.56 | 4.77 | -42.34 | 47.85 | 42.84 | 74.00 | 31.16 | Pass | V | Peak |
| 9 | 3185.9186 | 33.27 | 5.67 | -42.00 | 51.05 | 47.99 | 74.00 | 26.01 | Pass | V | Peak |
| 10 | 8247.3498 | 36.50 | 6.43 | -40.79 | 47.31 | 49.45 | 74.00 | 24.55 | Pass | V | Peak |
| 11 | 10400.0000 | 38.36 | 7.54 | -41.02 | 43.97 | 48.85 | 74.00 | 25.15 | Pass | V | Peak |
| 12 | 15600.0000 | 41.10 | 9.80 | -43.06 | 42.84 | 50.68 | 74.00 | 23.32 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1199.6700 | 28.10 | 3.04 | -42.89 | 60.11 | 48.36 | 74.00 | 25.64 | Pass | H | Peak |
| 2 | 2620.0000 | 32.59 | 4.80 | -42.32 | 47.29 | 42.36 | 74.00 | 31.64 | Pass | H | Peak |
| 3 | 4482.3982 | 34.48 | 6.68 | -40.91 | 46.74 | 46.99 | 74.00 | 27.01 | Pass | H | Peak |
| 4 | 8112.4075 | 36.44 | 6.52 | -40.89 | 46.56 | 48.63 | 74.00 | 25.37 | Pass | H | Peak |
| 5 | 10480.0000 | 38.47 | 7.45 | -41.15 | 43.79 | 48.56 | 74.00 | 25.44 | Pass | H | Peak |
| 6 | 15720.0000 | 41.34 | 10.45 | -43.15 | 42.22 | 50.86 | 74.00 | 23.14 | Pass | H | Peak |
| 7 | 1193.0693 | 28.09 | 3.04 | -42.88 | 52.01 | 40.26 | 74.00 | 33.74 | Pass | V | Peak |
| 8 | 2620.0000 | 32.59 | 4.80 | -42.32 | 47.08 | 42.15 | 74.00 | 31.85 | Pass | V | Peak |
| 9 | 3193.6194 | 33.28 | 5.71 | -42.00 | 51.20 | 48.19 | 74.00 | 25.81 | Pass | V | Peak |
| 10 | 7675.3784 | 36.53 | 6.31 | -40.85 | 46.51 | 48.50 | 74.00 | 25.50 | Pass | V | Peak |
| 11 | 10480.0000 | 38.47 | 7.45 | -41.15 | 43.68 | 48.45 | 74.00 | 25.55 | Pass | V | Peak |
| 12 | 15720.0000 | 41.34 | 10.45 | -43.15 | 42.20 | 50.84 | 74.00 | 23.16 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1196.3696 | 28.10 | 3.04 | -42.89 | 60.23 | 48.48 | 74.00 | 25.52 | Pass | H | Peak |
| 2 | 2595.0000 | 32.55 | 4.78 | -42.34 | 46.20 | 41.19 | 74.00 | 32.81 | Pass | H | Peak |
| 3 | 4294.8295 | 34.21 | 6.50 | -40.85 | 45.91 | 45.77 | 74.00 | 28.23 | Pass | H | Peak |
| 4 | 8105.5070 | 36.44 | 6.54 | -40.90 | 46.26 | 48.34 | 74.00 | 25.66 | Pass | H | Peak |
| 5 | 10380.0000 | 38.33 | 7.41 | -40.99 | 43.70 | 48.45 | 74.00 | 25.55 | Pass | H | Peak |
| 6 | 15570.0000 | 41.04 | 10.06 | -43.05 | 42.92 | 50.97 | 74.00 | 23.03 | Pass | H | Peak |
| 7 | 1203.5204 | 28.10 | 3.05 | -42.89 | 52.97 | 41.23 | 74.00 | 32.77 | Pass | V | Peak |
| 8 | 2595.0000 | 32.55 | 4.78 | -42.34 | 47.33 | 42.32 | 74.00 | 31.68 | Pass | V | Peak |
| 9 | 4310.2310 | 34.23 | 6.53 | -40.85 | 47.04 | 46.95 | 74.00 | 27.05 | Pass | V | Peak |
| 10 | 7535.8357 | 36.59 | 6.44 | -40.79 | 46.56 | 48.80 | 74.00 | 25.20 | Pass | V | Peak |
| 11 | 10380.0000 | 38.33 | 7.41 | -40.99 | 44.19 | 48.94 | 74.00 | 25.06 | Pass | V | Peak |
| 12 | 15570.0000 | 41.04 | 10.06 | -43.05 | 42.60 | 50.65 | 74.00 | 23.35 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1206.2706 | 28.11 | 3.05 | -42.88 | 57.65 | 45.93 | 74.00 | 28.07 | Pass | H | Peak |
| 2 | 2615.0000 | 32.58 | 4.79 | -42.32 | 47.26 | 42.31 | 74.00 | 31.69 | Pass | H | Peak |
| 3 | 4091.3091 | 33.93 | 6.26 | -40.80 | 46.34 | 45.73 | 74.00 | 28.27 | Pass | H | Peak |
| 4 | 7962.1308 | 36.42 | 6.57 | -40.98 | 46.45 | 48.46 | 74.00 | 25.54 | Pass | H | Peak |
| 5 | 10460.0000 | 38.44 | 7.49 | -41.11 | 43.35 | 48.17 | 74.00 | 25.83 | Pass | H | Peak |
| 6 | 15690.0000 | 41.28 | 10.53 | -43.14 | 42.18 | 50.85 | 74.00 | 23.15 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 53.24 | 41.49 | 74.00 | 32.51 | Pass | V | Peak |
| 8 | 2615.0000 | 32.58 | 4.79 | -42.32 | 46.80 | 41.85 | 74.00 | 32.15 | Pass | V | Peak |
| 9 | 3189.2189 | 33.28 | 5.69 | -42.01 | 50.16 | 47.12 | 74.00 | 26.88 | Pass | V | Peak |
| 10 | 8486.5658 | 36.59 | 6.66 | -40.57 | 46.64 | 49.32 | 74.00 | 24.68 | Pass | V | Peak |
| 11 | 10460.0000 | 38.44 | 7.49 | -41.11 | 44.03 | 48.85 | 74.00 | 25.15 | Pass | V | Peak |
| 12 | 15690.0000 | 41.28 | 10.53 | -43.14 | 42.00 | 50.67 | 74.00 | 23.33 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1197.4697 | 28.10 | 3.04 | -42.89 | 58.31 | 46.56 | 74.00 | 27.44 | Pass | H | Peak |
| 2 | 2590.0000 | 32.54 | 4.79 | -42.34 | 47.38 | 42.37 | 74.00 | 31.63 | Pass | H | Peak |
| 3 | 3808.0308 | 33.65 | 6.15 | -41.18 | 47.58 | 46.20 | 74.00 | 27.80 | Pass | H | Peak |
| 4 | 8241.2161 | 36.50 | 6.44 | -40.79 | 47.38 | 49.53 | 74.00 | 24.47 | Pass | H | Peak |
| 5 | 10360.0000 | 38.30 | 7.29 | -40.96 | 44.34 | 48.97 | 74.00 | 25.03 | Pass | H | Peak |
| 6 | 15540.0000 | 40.98 | 10.10 | -43.02 | 42.83 | 50.89 | 74.00 | 23.11 | Pass | H | Peak |
| 7 | 1204.6205 | 28.10 | 3.05 | -42.88 | 60.22 | 48.49 | 74.00 | 25.51 | Pass | V | Peak |
| 8 | 2600.0000 | 32.56 | 4.77 | -42.34 | 47.01 | 42.00 | 74.00 | 32.00 | Pass | V | Peak |
| 9 | 4410.8911 | 34.38 | 6.74 | -40.89 | 46.46 | 46.69 | 74.00 | 27.31 | Pass | V | Peak |
| 10 | 8030.3687 | 36.41 | 6.56 | -40.97 | 47.21 | 49.21 | 74.00 | 24.79 | Pass | V | Peak |
| 11 | 10400.0000 | 38.36 | 7.54 | -41.02 | 43.82 | 48.70 | 74.00 | 25.30 | Pass | V | Peak |
| 12 | 15600.0000 | 41.10 | 9.80 | -43.06 | 43.04 | 50.88 | 74.00 | 23.12 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1198.5699 | 28.10 | 3.04 | -42.89 | 51.90 | 40.15 | 74.00 | 33.85 | Pass | H | Peak |
| 2 | 2600.0000 | 32.56 | 4.77 | -42.34 | 51.05 | 46.04 | 74.00 | 27.96 | Pass | H | Peak |
| 3 | 4559.4059 | 34.50 | 6.86 | -40.87 | 46.84 | 47.33 | 74.00 | 26.67 | Pass | H | Peak |
| 4 | 8501.1334 | 36.60 | 6.64 | -40.56 | 46.42 | 49.10 | 74.00 | 24.90 | Pass | H | Peak |
| 5 | 10400.0000 | 38.36 | 7.54 | -41.02 | 45.11 | 49.99 | 74.00 | 24.01 | Pass | H | Peak |
| 6 | 15600.0000 | 41.10 | 9.80 | -43.06 | 42.85 | 50.69 | 74.00 | 23.31 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 58.59 | 46.84 | 74.00 | 27.16 | Pass | V | Peak |
| 8 | 2620.0000 | 32.59 | 4.80 | -42.32 | 47.21 | 42.28 | 74.00 | 31.72 | Pass | V | Peak |
| 9 | 4156.2156 | 34.02 | 6.26 | -40.82 | 47.21 | 46.67 | 74.00 | 27.33 | Pass | V | Peak |
| 10 | 8134.6423 | 36.45 | 6.46 | -40.88 | 47.00 | 49.03 | 74.00 | 24.97 | Pass | V | Peak |
| 11 | 10480.0000 | 38.47 | 7.45 | -41.15 | 43.73 | 48.50 | 74.00 | 25.50 | Pass | V | Peak |
| 12 | 15720.0000 | 41.34 | 10.45 | -43.15 | 41.84 | 50.48 | 74.00 | 23.52 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 3.04 | -42.89 | 54.20 | 42.45 | 74.00 | 31.55 | Pass | H | Peak |
| 2 | 2620.0000 | 32.59 | 4.80 | -42.32 | 48.11 | 43.18 | 74.00 | 30.82 | Pass | H | Peak |
| 3 | 4134.7635 | 33.99 | 6.26 | -40.82 | 46.95 | 46.38 | 74.00 | 27.62 | Pass | H | Peak |
| 4 | 7914.5943 | 36.43 | 6.63 | -40.96 | 47.09 | 49.19 | 74.00 | 24.81 | Pass | H | Peak |
| 5 | 10480.0000 | 38.47 | 7.45 | -41.15 | 44.15 | 48.92 | 74.00 | 25.08 | Pass | H | Peak |
| 6 | 15720.0000 | 41.34 | 10.45 | -43.15 | 42.18 | 50.82 | 74.00 | 23.18 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 57.51 | 45.76 | 74.00 | 28.24 | Pass | V | Peak |
| 8 | 2595.0000 | 32.55 | 4.78 | -42.34 | 46.09 | 41.08 | 74.00 | 32.92 | Pass | V | Peak |
| 9 | 4286.0286 | 34.20 | 6.46 | -40.85 | 45.70 | 45.51 | 74.00 | 28.49 | Pass | V | Peak |
| 10 | 8410.6607 | 36.56 | 6.70 | -40.63 | 45.28 | 47.91 | 74.00 | 26.09 | Pass | V | Peak |
| 11 | 10380.0000 | 38.33 | 7.41 | -40.99 | 42.04 | 46.79 | 74.00 | 27.21 | Pass | V | Peak |
| 12 | 15570.0000 | 41.04 | 10.06 | -43.05 | 42.70 | 50.75 | 74.00 | 23.25 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1394.3894 | 28.29 | 3.33 | -42.68 | 55.35 | 44.29 | 74.00 | 29.71 | Pass | H | Peak |
| 2 | 2595.0000 | 32.55 | 4.78 | -42.34 | 48.55 | 43.54 | 74.00 | 30.46 | Pass | H | Peak |
| 3 | 3927.9428 | 33.74 | 6.25 | -40.92 | 46.78 | 45.85 | 74.00 | 28.15 | Pass | H | Peak |
| 4 | 7498.2666 | 36.60 | 6.53 | -40.77 | 45.74 | 48.10 | 74.00 | 25.90 | Pass | H | Peak |
| 5 | 10380.0000 | 38.33 | 7.41 | -40.99 | 43.30 | 48.05 | 74.00 | 25.95 | Pass | H | Peak |
| 6 | 15570.0000 | 41.04 | 10.06 | -43.05 | 42.83 | 50.88 | 74.00 | 23.12 | Pass | H | Peak |
| 7 | 1202.4202 | 28.10 | 3.05 | -42.89 | 58.71 | 46.97 | 74.00 | 27.03 | Pass | V | Peak |
| 8 | 2615.0000 | 32.58 | 4.79 | -42.32 | 47.12 | 42.17 | 74.00 | 31.83 | Pass | V | Peak |
| 9 | 4600.6601 | 34.50 | 6.75 | -40.83 | 46.64 | 47.06 | 74.00 | 26.94 | Pass | V | Peak |
| 10 | 8416.7945 | 36.57 | 6.70 | -40.64 | 46.56 | 49.19 | 74.00 | 24.81 | Pass | V | Peak |
| 11 | 10460.0000 | 38.44 | 7.49 | -41.11 | 44.68 | 49.50 | 74.00 | 24.50 | Pass | V | Peak |
| 12 | 15690.0000 | 41.28 | 10.53 | -43.14 | 42.17 | 50.84 | 74.00 | 23.16 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1202.4202 | 28.10 | 3.05 | -42.89 | 58.71 | 46.97 | 74.00 | 27.03 | Pass | H | Peak |
| 2 | 2615.0000 | 32.58 | 4.79 | -42.32 | 47.12 | 42.17 | 74.00 | 31.83 | Pass | H | Peak |
| 3 | 4600.6601 | 34.50 | 6.75 | -40.83 | 46.64 | 47.06 | 74.00 | 26.94 | Pass | H | Peak |
| 4 | 8416.7945 | 36.57 | 6.70 | -40.64 | 46.56 | 49.19 | 74.00 | 24.81 | Pass | H | Peak |
| 5 | 10460.0000 | 38.44 | 7.49 | -41.11 | 44.68 | 49.50 | 74.00 | 24.50 | Pass | H | Peak |
| 6 | 15690.0000 | 41.28 | 10.53 | -43.14 | 42.17 | 50.84 | 74.00 | 23.16 | Pass | H | Peak |
| 7 | 1395.4895 | 28.30 | 3.33 | -42.69 | 54.73 | 43.67 | 74.00 | 30.33 | Pass | V | Peak |
| 8 | 2615.0000 | 32.58 | 4.79 | -42.32 | 46.78 | 41.83 | 74.00 | 32.17 | Pass | V | Peak |
| 9 | 4151.8152 | 34.01 | 6.26 | -40.82 | 45.95 | 45.40 | 74.00 | 28.60 | Pass | V | Peak |
| 10 | 8284.9190 | 36.51 | 6.47 | -40.75 | 46.25 | 48.48 | 74.00 | 25.52 | Pass | V | Peak |
| 11 | 10460.0000 | 38.44 | 7.49 | -41.11 | 43.14 | 47.96 | 74.00 | 26.04 | Pass | V | Peak |
| 12 | 15690.0000 | 41.28 | 10.53 | -43.14 | 41.13 | 49.80 | 74.00 | 24.20 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5210 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1200.2200 | 28.10 | 3.04 | -42.89 | 58.03 | 46.28 | 74.00 | 27.72 | Pass | H | Peak |
| 2 | 2605.0000 | 32.57 | 4.78 | -42.34 | 47.79 | 42.80 | 74.00 | 31.20 | Pass | H | Peak |
| 3 | 4409.7910 | 34.37 | 6.74 | -40.88 | 45.77 | 46.00 | 74.00 | 28.00 | Pass | H | Peak |
| 4 | 8397.6265 | 36.56 | 6.69 | -40.65 | 46.11 | 48.71 | 74.00 | 25.29 | Pass | H | Peak |
| 5 | 10420.0000 | 38.39 | 7.53 | -41.06 | 44.68 | 49.54 | 74.00 | 24.46 | Pass | H | Peak |
| 6 | 15630.0000 | 41.16 | 10.41 | -43.09 | 41.58 | 50.06 | 74.00 | 23.94 | Pass | H | Peak |
| 7 | 1200.2200 | 28.10 | 3.04 | -42.89 | 53.77 | 42.02 | 74.00 | 31.98 | Pass | V | Peak |
| 8 | 2605.0000 | 32.57 | 4.78 | -42.34 | 46.03 | 41.04 | 74.00 | 32.96 | Pass | V | Peak |
| 9 | 4613.3113 | 34.50 | 6.77 | -40.82 | 47.42 | 47.87 | 74.00 | 26.13 | Pass | V | Peak |
| 10 | 8396.8598 | 36.56 | 6.69 | -40.65 | 47.13 | 49.73 | 74.00 | 24.27 | Pass | V | Peak |
| 11 | 10420.0000 | 38.39 | 7.53 | -41.06 | 44.48 | 49.34 | 74.00 | 24.66 | Pass | V | Peak |
| 12 | 15630.0000 | 41.16 | 10.41 | -43.09 | 41.96 | 50.44 | 74.00 | 23.56 | Pass | V | Peak |

**Band-4**

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 59.18 | 47.24 | 74.00 | 26.76 | Pass | H | Peak |
| 2 | 2872.5000 | 33.00 | 4.48 | -42.19 | 46.56 | 41.85 | 74.00 | 32.15 | Pass | H | Peak |
| 3 | 4535.7536 | 34.50 | 5.82 | -40.88 | 47.34 | 46.78 | 74.00 | 27.22 | Pass | H | Peak |
| 4 | 8457.4305 | 36.58 | 6.69 | -40.59 | 46.12 | 48.80 | 74.00 | 25.20 | Pass | H | Peak |
| 5 | 11490.0000 | 38.89 | 7.94 | -41.37 | 44.50 | 49.96 | 74.00 | 24.04 | Pass | H | Peak |
| 6 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.54 | 50.73 | 74.00 | 23.27 | Pass | H | Peak |
| 7 | 1194.1694 | 28.09 | 2.85 | -42.87 | 54.68 | 42.75 | 74.00 | 31.25 | Pass | V | Peak |
| 8 | 2872.5000 | 33.00 | 4.48 | -42.19 | 46.99 | 42.28 | 74.00 | 31.72 | Pass | V | Peak |
| 9 | 4962.0462 | 34.50 | 6.00 | -40.53 | 48.04 | 48.01 | 74.00 | 25.99 | Pass | V | Peak |
| 10 | 8041.8695 | 36.42 | 6.57 | -40.97 | 47.17 | 49.19 | 74.00 | 24.81 | Pass | V | Peak |
| 11 | 11490.0000 | 38.89 | 7.94 | -41.37 | 44.38 | 49.84 | 74.00 | 24.16 | Pass | V | Peak |
| 12 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.63 | 50.82 | 74.00 | 23.18 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 58.60 | 46.66 | 74.00 | 27.34 | Pass | H | Peak |
| 2 | 2892.5000 | 33.03 | 4.47 | -42.18 | 46.51 | 41.83 | 74.00 | 32.17 | Pass | H | Peak |
| 3 | 4782.1782 | 34.50 | 5.88 | -40.68 | 46.48 | 46.18 | 74.00 | 27.82 | Pass | H | Peak |
| 4 | 8399.9267 | 36.56 | 6.70 | -40.65 | 45.48 | 48.09 | 74.00 | 25.91 | Pass | H | Peak |
| 5 | 11570.0000 | 38.96 | 7.70 | -41.36 | 43.18 | 48.48 | 74.00 | 25.52 | Pass | H | Peak |
| 6 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.62 | 50.62 | 74.00 | 23.38 | Pass | H | Peak |
| 7 | 1195.2695 | 28.10 | 2.86 | -42.89 | 52.89 | 40.96 | 74.00 | 33.04 | Pass | V | Peak |
| 8 | 2892.5000 | 33.03 | 4.47 | -42.18 | 46.47 | 41.79 | 74.00 | 32.21 | Pass | V | Peak |
| 9 | 4932.8933 | 34.50 | 5.99 | -40.56 | 47.32 | 47.25 | 74.00 | 26.75 | Pass | V | Peak |
| 10 | 8417.5612 | 36.57 | 6.70 | -40.64 | 46.65 | 49.28 | 74.00 | 24.72 | Pass | V | Peak |
| 11 | 11570.0000 | 38.96 | 7.70 | -41.36 | 43.79 | 49.09 | 74.00 | 24.91 | Pass | V | Peak |
| 12 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.59 | 50.59 | 74.00 | 23.41 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.2695 | 28.10 | 2.86 | -42.89 | 57.89 | 45.96 | 74.00 | 28.04 | Pass | H | Peak |
| 2 | 2912.5000 | 33.06 | 4.50 | -42.17 | 46.05 | 41.44 | 74.00 | 32.56 | Pass | H | Peak |
| 3 | 4342.1342 | 34.28 | 5.49 | -40.87 | 46.05 | 44.95 | 74.00 | 29.05 | Pass | H | Peak |
| 4 | 8241.9828 | 36.50 | 6.44 | -40.79 | 46.24 | 48.39 | 74.00 | 25.61 | Pass | H | Peak |
| 5 | 11650.0000 | 39.02 | 7.54 | -41.33 | 42.47 | 47.70 | 74.00 | 26.30 | Pass | H | Peak |
| 6 | 17475.0000 | 42.68 | 11.90 | -43.70 | 39.64 | 50.52 | 74.00 | 23.48 | Pass | H | Peak |
| 7 | 1192.5193 | 28.09 | 2.85 | -42.88 | 52.14 | 40.20 | 74.00 | 33.80 | Pass | V | Peak |
| 8 | 2912.5000 | 33.06 | 4.50 | -42.17 | 45.64 | 41.03 | 74.00 | 32.97 | Pass | V | Peak |
| 9 | 4867.9868 | 34.50 | 6.19 | -40.61 | 45.95 | 46.03 | 74.00 | 27.97 | Pass | V | Peak |
| 10 | 7637.8092 | 36.54 | 6.38 | -40.83 | 45.37 | 47.46 | 74.00 | 26.54 | Pass | V | Peak |
| 11 | 11650.0000 | 39.02 | 7.54 | -41.33 | 42.17 | 47.40 | 74.00 | 26.60 | Pass | V | Peak |
| 12 | 17475.0000 | 42.68 | 11.90 | -43.70 | 39.75 | 50.63 | 74.00 | 23.37 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 58.41 | 46.47 | 74.00 | 27.53 | Pass | H | Peak |
| 2 | 2872.5000 | 33.00 | 4.48 | -42.19 | 45.88 | 41.17 | 74.00 | 32.83 | Pass | H | Peak |
| 3 | 4546.7547 | 34.50 | 5.80 | -40.87 | 45.40 | 44.83 | 74.00 | 29.17 | Pass | H | Peak |
| 4 | 8397.6265 | 36.56 | 6.69 | -40.65 | 45.14 | 47.74 | 74.00 | 26.26 | Pass | H | Peak |
| 5 | 11490.0000 | 38.89 | 7.94 | -41.37 | 42.88 | 48.34 | 74.00 | 25.66 | Pass | H | Peak |
| 6 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.60 | 50.79 | 74.00 | 23.21 | Pass | H | Peak |
| 7 | 1193.0693 | 28.09 | 2.85 | -42.88 | 54.74 | 42.80 | 74.00 | 31.20 | Pass | V | Peak |
| 8 | 2872.5000 | 33.00 | 4.48 | -42.19 | 46.00 | 41.29 | 74.00 | 32.71 | Pass | V | Peak |
| 9 | 4785.4785 | 34.50 | 5.86 | -40.68 | 46.68 | 46.36 | 74.00 | 27.64 | Pass | V | Peak |
| 10 | 8399.9267 | 36.56 | 6.70 | -40.65 | 46.27 | 48.88 | 74.00 | 25.12 | Pass | V | Peak |
| 11 | 11490.0000 | 38.89 | 7.94 | -41.37 | 43.51 | 48.97 | 74.00 | 25.03 | Pass | V | Peak |
| 12 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.56 | 50.75 | 74.00 | 23.25 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 57.78 | 45.85 | 74.00 | 28.15 | Pass | H | Peak |
| 2 | 2892.5000 | 33.03 | 4.47 | -42.18 | 46.23 | 41.55 | 74.00 | 32.45 | Pass | H | Peak |
| 3 | 4936.1936 | 34.50 | 5.99 | -40.55 | 46.72 | 46.66 | 74.00 | 27.34 | Pass | H | Peak |
| 4 | 9890.4260 | 37.76 | 7.16 | -40.50 | 44.97 | 49.39 | 74.00 | 24.61 | Pass | H | Peak |
| 5 | 11570.0000 | 38.96 | 7.70 | -41.36 | 43.56 | 48.86 | 74.00 | 25.14 | Pass | H | Peak |
| 6 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.63 | 50.63 | 74.00 | 23.37 | Pass | H | Peak |
| 7 | 1215.0715 | 28.12 | 2.87 | -42.88 | 54.73 | 42.84 | 74.00 | 31.16 | Pass | V | Peak |
| 8 | 2892.5000 | 33.03 | 4.47 | -42.18 | 46.28 | 41.60 | 74.00 | 32.40 | Pass | V | Peak |
| 9 | 4537.9538 | 34.50 | 5.82 | -40.88 | 45.67 | 45.11 | 74.00 | 28.89 | Pass | V | Peak |
| 10 | 8202.1135 | 36.48 | 6.55 | -40.82 | 45.74 | 47.95 | 74.00 | 26.05 | Pass | V | Peak |
| 11 | 11570.0000 | 38.96 | 7.70 | -41.36 | 42.33 | 47.63 | 74.00 | 26.37 | Pass | V | Peak |
| 12 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.68 | 50.68 | 74.00 | 23.32 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 57.29 | 45.35 | 74.00 | 28.65 | Pass | H | Peak |
| 2 | 2912.5000 | 33.06 | 4.50 | -42.17 | 45.65 | 41.04 | 74.00 | 32.96 | Pass | H | Peak |
| 3 | 4852.0352 | 34.50 | 6.31 | -40.62 | 45.34 | 45.53 | 74.00 | 28.47 | Pass | H | Peak |
| 4 | 8328.6219 | 36.53 | 6.54 | -40.71 | 45.17 | 47.53 | 74.00 | 26.47 | Pass | H | Peak |
| 5 | 11650.0000 | 39.02 | 7.54 | -41.33 | 43.19 | 48.42 | 74.00 | 25.58 | Pass | H | Peak |
| 6 | 17475.0000 | 42.68 | 11.90 | -43.70 | 40.03 | 50.91 | 74.00 | 23.09 | Pass | H | Peak |
| 7 | 1195.8196 | 28.10 | 2.86 | -42.89 | 51.93 | 40.00 | 74.00 | 34.00 | Pass | V | Peak |
| 8 | 2912.5000 | 33.06 | 4.50 | -42.17 | 45.94 | 41.33 | 74.00 | 32.67 | Pass | V | Peak |
| 9 | 5161.7162 | 34.66 | 6.16 | -40.55 | 45.89 | 46.16 | 74.00 | 27.84 | Pass | V | Peak |
| 10 | 9155.9104 | 37.67 | 6.62 | -40.74 | 45.05 | 48.60 | 74.00 | 25.40 | Pass | V | Peak |
| 11 | 11650.0000 | 39.02 | 7.54 | -41.33 | 43.16 | 48.39 | 74.00 | 25.61 | Pass | V | Peak |
| 12 | 17475.0000 | 42.68 | 11.90 | -43.70 | 39.81 | 50.69 | 74.00 | 23.31 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.2695 | 28.10 | 2.86 | -42.89 | 57.92 | 45.99 | 74.00 | 28.01 | Pass | H | Peak |
| 2 | 2877.5000 | 33.00 | 4.48 | -42.18 | 46.79 | 42.09 | 74.00 | 31.91 | Pass | H | Peak |
| 3 | 4750.8251 | 34.50 | 6.07 | -40.71 | 46.47 | 46.33 | 74.00 | 27.67 | Pass | H | Peak |
| 4 | 8067.9379 | 36.43 | 6.57 | -40.95 | 46.43 | 48.48 | 74.00 | 25.52 | Pass | H | Peak |
| 5 | 11510.0000 | 38.91 | 7.91 | -41.38 | 43.34 | 48.78 | 74.00 | 25.22 | Pass | H | Peak |
| 6 | 17265.0000 | 42.47 | 11.27 | -43.51 | 40.11 | 50.34 | 74.00 | 23.66 | Pass | H | Peak |
| 7 | 1194.1694 | 28.09 | 2.85 | -42.87 | 52.63 | 40.70 | 74.00 | 33.30 | Pass | V | Peak |
| 8 | 2877.5000 | 33.00 | 4.48 | -42.18 | 47.85 | 43.15 | 74.00 | 30.85 | Pass | V | Peak |
| 9 | 4849.2849 | 34.50 | 6.32 | -40.62 | 46.70 | 46.90 | 74.00 | 27.10 | Pass | V | Peak |
| 10 | 9178.9119 | 37.66 | 6.61 | -40.74 | 46.20 | 49.73 | 74.00 | 24.27 | Pass | V | Peak |
| 11 | 11510.0000 | 38.91 | 7.91 | -41.38 | 43.21 | 48.65 | 74.00 | 25.35 | Pass | V | Peak |
| 12 | 17265.0000 | 42.47 | 11.27 | -43.51 | 40.34 | 50.57 | 74.00 | 23.43 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1197.4697 | 28.10 | 2.86 | -42.89 | 57.87 | 45.94 | 74.00 | 28.06 | Pass | H | Peak |
| 2 | 2897.5000 | 33.04 | 4.47 | -42.18 | 46.45 | 41.78 | 74.00 | 32.22 | Pass | H | Peak |
| 3 | 5055.0055 | 34.56 | 5.94 | -40.52 | 46.65 | 46.63 | 74.00 | 27.37 | Pass | H | Peak |
| 4 | 8203.6469 | 36.48 | 6.55 | -40.82 | 46.40 | 48.61 | 74.00 | 25.39 | Pass | H | Peak |
| 5 | 11590.0000 | 38.97 | 7.73 | -41.35 | 42.49 | 47.84 | 74.00 | 26.16 | Pass | H | Peak |
| 6 | 17385.0000 | 42.59 | 10.96 | -43.62 | 40.86 | 50.79 | 74.00 | 23.21 | Pass | H | Peak |
| 7 | 1233.7734 | 28.13 | 2.86 | -42.85 | 51.52 | 39.66 | 74.00 | 34.34 | Pass | V | Peak |
| 8 | 2897.5000 | 33.04 | 4.47 | -42.18 | 45.91 | 41.24 | 74.00 | 32.76 | Pass | V | Peak |
| 9 | 4895.4895 | 34.50 | 5.98 | -40.59 | 46.14 | 46.03 | 74.00 | 27.97 | Pass | V | Peak |
| 10 | 8431.3621 | 36.57 | 6.70 | -40.62 | 45.44 | 48.09 | 74.00 | 25.91 | Pass | V | Peak |
| 11 | 11590.0000 | 38.97 | 7.73 | -41.35 | 43.90 | 49.25 | 74.00 | 24.75 | Pass | V | Peak |
| 12 | 17385.0000 | 42.59 | 10.96 | -43.62 | 40.55 | 50.48 | 74.00 | 23.52 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.0693 | 28.09 | 2.85 | -42.88 | 57.15 | 45.21 | 74.00 | 28.79 | Pass | H | Peak |
| 2 | 2872.5000 | 33.00 | 4.48 | -42.19 | 46.31 | 41.60 | 74.00 | 32.40 | Pass | H | Peak |
| 3 | 4494.4995 | 34.49 | 5.87 | -40.90 | 46.35 | 45.81 | 74.00 | 28.19 | Pass | H | Peak |
| 4 | 8388.4259 | 36.56 | 6.67 | -40.66 | 46.09 | 48.66 | 74.00 | 25.34 | Pass | H | Peak |
| 5 | 11490.0000 | 38.89 | 7.94 | -41.37 | 43.75 | 49.21 | 74.00 | 24.79 | Pass | H | Peak |
| 6 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.53 | 50.72 | 74.00 | 23.28 | Pass | H | Peak |
| 7 | 1220.0220 | 28.12 | 2.87 | -42.87 | 53.87 | 41.99 | 74.00 | 32.01 | Pass | V | Peak |
| 8 | 2872.5000 | 33.00 | 4.48 | -42.19 | 47.47 | 42.76 | 74.00 | 31.24 | Pass | V | Peak |
| 9 | 4881.1881 | 34.50 | 6.09 | -40.60 | 47.13 | 47.12 | 74.00 | 26.88 | Pass | V | Peak |
| 10 | 8422.1615 | 36.57 | 6.70 | -40.63 | 46.56 | 49.20 | 74.00 | 24.80 | Pass | V | Peak |
| 11 | 11490.0000 | 38.89 | 7.94 | -41.37 | 43.60 | 49.06 | 74.00 | 24.94 | Pass | V | Peak |
| 12 | 17235.0000 | 42.44 | 11.22 | -43.47 | 40.54 | 50.73 | 74.00 | 23.27 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1200.2200 | 28.10 | 2.87 | -42.89 | 58.07 | 46.15 | 74.00 | 27.85 | Pass | H | Peak |
| 2 | 2892.5000 | 33.03 | 4.47 | -42.18 | 46.47 | 41.79 | 74.00 | 32.21 | Pass | H | Peak |
| 3 | 4436.7437 | 34.41 | 5.64 | -40.90 | 45.89 | 45.04 | 74.00 | 28.96 | Pass | H | Peak |
| 4 | 7631.6754 | 36.55 | 6.44 | -40.84 | 45.81 | 47.96 | 74.00 | 26.04 | Pass | H | Peak |
| 5 | 11570.0000 | 38.96 | 7.70 | -41.36 | 43.88 | 49.18 | 74.00 | 24.82 | Pass | H | Peak |
| 6 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.58 | 50.58 | 74.00 | 23.42 | Pass | H | Peak |
| 7 | 1199.1199 | 28.10 | 2.87 | -42.89 | 53.86 | 41.94 | 74.00 | 32.06 | Pass | V | Peak |
| 8 | 2892.5000 | 33.03 | 4.47 | -42.18 | 47.02 | 42.34 | 74.00 | 31.66 | Pass | V | Peak |
| 9 | 4882.2882 | 34.50 | 6.08 | -40.60 | 46.56 | 46.54 | 74.00 | 27.46 | Pass | V | Peak |
| 10 | 8491.9328 | 36.60 | 6.65 | -40.57 | 46.56 | 49.24 | 74.00 | 24.76 | Pass | V | Peak |
| 11 | 11570.0000 | 38.96 | 7.70 | -41.36 | 44.74 | 50.04 | 74.00 | 23.96 | Pass | V | Peak |
| 12 | 17355.0000 | 42.56 | 11.03 | -43.59 | 40.75 | 50.75 | 74.00 | 23.25 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1198.0198 | 28.10 | 2.86 | -42.88 | 56.37 | 44.45 | 74.00 | 29.55 | Pass | H | Peak |
| 2 | 2912.5000 | 33.06 | 4.50 | -42.17 | 46.07 | 41.46 | 74.00 | 32.54 | Pass | H | Peak |
| 3 | 4723.8724 | 34.50 | 5.90 | -40.73 | 46.16 | 45.83 | 74.00 | 28.17 | Pass | H | Peak |
| 4 | 7966.7311 | 36.41 | 6.57 | -40.98 | 45.60 | 47.60 | 74.00 | 26.40 | Pass | H | Peak |
| 5 | 11650.0000 | 39.02 | 7.54 | -41.33 | 43.52 | 48.75 | 74.00 | 25.25 | Pass | H | Peak |
| 6 | 17475.0000 | 42.68 | 11.90 | -43.70 | 39.81 | 50.69 | 74.00 | 23.31 | Pass | H | Peak |
| 7 | 1196.9197 | 28.10 | 2.86 | -42.89 | 51.63 | 39.70 | 74.00 | 34.30 | Pass | V | Peak |
| 8 | 2912.5000 | 33.06 | 4.50 | -42.17 | 45.53 | 40.92 | 74.00 | 33.08 | Pass | V | Peak |
| 9 | 5280.5281 | 34.78 | 6.32 | -40.58 | 45.75 | 46.27 | 74.00 | 27.73 | Pass | V | Peak |
| 10 | 8489.6326 | 36.60 | 6.65 | -40.57 | 45.61 | 48.29 | 74.00 | 25.71 | Pass | V | Peak |
| 11 | 11650.0000 | 39.02 | 7.54 | -41.33 | 41.99 | 47.22 | 74.00 | 26.78 | Pass | V | Peak |
| 12 | 17475.0000 | 42.68 | 11.90 | -43.70 | 39.93 | 50.81 | 74.00 | 23.19 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1198.0198 | 28.10 | 2.86 | -42.88 | 59.53 | 47.61 | 74.00 | 26.39 | Pass | H | Peak |
| 2 | 2877.5000 | 33.00 | 4.48 | -42.18 | 46.31 | 41.61 | 74.00 | 32.39 | Pass | H | Peak |
| 3 | 4544.0044 | 34.50 | 5.80 | -40.87 | 47.20 | 46.63 | 74.00 | 27.37 | Pass | H | Peak |
| 4 | 8179.8787 | 36.47 | 6.50 | -40.84 | 47.11 | 49.24 | 74.00 | 24.76 | Pass | H | Peak |
| 5 | 11510.0000 | 38.91 | 7.91 | -41.38 | 43.58 | 49.02 | 74.00 | 24.98 | Pass | H | Peak |
| 6 | 17265.0000 | 42.47 | 11.27 | -43.51 | 40.61 | 50.84 | 74.00 | 23.16 | Pass | H | Peak |
| 7 | 1195.2695 | 28.10 | 2.86 | -42.89 | 52.32 | 40.39 | 74.00 | 33.61 | Pass | V | Peak |
| 8 | 2877.5000 | 33.00 | 4.48 | -42.18 | 46.45 | 41.75 | 74.00 | 32.25 | Pass | V | Peak |
| 9 | 4837.7338 | 34.50 | 6.19 | -40.63 | 46.27 | 46.33 | 74.00 | 27.67 | Pass | V | Peak |
| 10 | 8333.9889 | 36.53 | 6.55 | -40.70 | 47.10 | 49.48 | 74.00 | 24.52 | Pass | V | Peak |
| 11 | 11510.0000 | 38.91 | 7.91 | -41.38 | 43.85 | 49.29 | 74.00 | 24.71 | Pass | V | Peak |
| 12 | 17265.0000 | 42.47 | 11.27 | -43.51 | 40.06 | 50.29 | 74.00 | 23.71 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 57.09 | 45.16 | 74.00 | 28.84 | Pass | H | Peak |
| 2 | 2897.5000 | 33.04 | 4.47 | -42.18 | 46.39 | 41.72 | 74.00 | 32.28 | Pass | H | Peak |
| 3 | 5063.2563 | 34.56 | 5.95 | -40.51 | 47.03 | 47.03 | 74.00 | 26.97 | Pass | H | Peak |
| 4 | 8524.1349 | 36.65 | 6.66 | -40.56 | 45.72 | 48.47 | 74.00 | 25.53 | Pass | H | Peak |
| 5 | 11590.0000 | 38.97 | 7.73 | -41.35 | 44.55 | 49.90 | 74.00 | 24.10 | Pass | H | Peak |
| 6 | 17385.0000 | 42.59 | 10.96 | -43.62 | 40.89 | 50.82 | 74.00 | 23.18 | Pass | H | Peak |
| 7 | 1194.7195 | 28.09 | 2.85 | -42.87 | 52.94 | 41.01 | 74.00 | 32.99 | Pass | V | Peak |
| 8 | 2897.5000 | 33.04 | 4.47 | -42.18 | 47.43 | 42.76 | 74.00 | 31.24 | Pass | V | Peak |
| 9 | 4855.8856 | 34.50 | 6.28 | -40.61 | 46.12 | 46.29 | 74.00 | 27.71 | Pass | V | Peak |
| 10 | 8493.4662 | 36.60 | 6.65 | -40.57 | 45.86 | 48.54 | 74.00 | 25.46 | Pass | V | Peak |
| 11 | 11590.0000 | 38.97 | 7.73 | -41.35 | 43.35 | 48.70 | 74.00 | 25.30 | Pass | V | Peak |
| 12 | 17385.0000 | 42.59 | 10.96 | -43.62 | 40.82 | 50.75 | 74.00 | 23.25 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5775 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 57.56 | 45.62 | 74.00 | 28.38 | Pass | H | Peak |
| 2 | 2887.5000 | 33.02 | 4.47 | -42.18 | 45.49 | 40.80 | 74.00 | 33.20 | Pass | H | Peak |
| 3 | 4714.5215 | 34.50 | 5.84 | -40.74 | 46.56 | 46.16 | 74.00 | 27.84 | Pass | H | Peak |
| 4 | 7864.7577 | 36.45 | 6.54 | -40.94 | 45.43 | 47.48 | 74.00 | 26.52 | Pass | H | Peak |
| 5 | 11550.0000 | 38.94 | 7.67 | -41.36 | 43.92 | 49.17 | 74.00 | 24.83 | Pass | H | Peak |
| 6 | 17325.0000 | 42.53 | 11.24 | -43.56 | 40.26 | 50.47 | 74.00 | 23.53 | Pass | H | Peak |
| 7 | 1197.4697 | 28.10 | 2.86 | -42.89 | 53.32 | 41.39 | 74.00 | 32.61 | Pass | V | Peak |
| 8 | 2887.5000 | 33.02 | 4.47 | -42.18 | 47.20 | 42.51 | 74.00 | 31.49 | Pass | V | Peak |
| 9 | 4634.7635 | 34.50 | 5.77 | -40.80 | 45.97 | 45.44 | 74.00 | 28.56 | Pass | V | Peak |
| 10 | 8543.3029 | 36.70 | 6.68 | -40.57 | 45.82 | 48.63 | 74.00 | 25.37 | Pass | V | Peak |
| 11 | 11550.0000 | 38.94 | 7.67 | -41.36 | 43.97 | 49.22 | 74.00 | 24.78 | Pass | V | Peak |
| 12 | 17325.0000 | 42.53 | 11.24 | -43.56 | 40.69 | 50.90 | 74.00 | 23.10 | Pass | V | Peak |

**Transmitter Emission 18GHz**
**Band-1**

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 20720.0000 | 38.72 | 0.00 | -63.22 | 69.45 | 44.95 | 74.00 | 29.05 | Pass | H | Peak |
| 2 | 23736.7868 | 39.82 | 0.00 | -61.06 | 69.43 | 48.19 | 74.00 | 25.81 | Pass | H | Peak |
| 3 | 25900.0000 | 40.43 | 0.00 | -59.10 | 65.60 | 46.93 | 74.00 | 27.07 | Pass | H | Peak |
| 4 | 29315.1658 | 40.47 | 0.00 | -60.61 | 68.68 | 48.54 | 74.00 | 25.46 | Pass | H | Peak |
| 5 | 31080.0000 | 41.34 | 0.00 | -58.91 | 64.92 | 47.35 | 74.00 | 26.65 | Pass | H | Peak |
| 6 | 36260.0000 | 43.14 | 0.00 | -57.95 | 64.50 | 49.69 | 74.00 | 24.31 | Pass | H | Peak |
| 7 | 19489.4745 | 38.96 | 0.00 | -62.90 | 71.28 | 47.34 | 74.00 | 26.66 | Pass | V | Peak |
| 8 | 20960.0000 | 38.63 | 0.00 | -63.07 | 68.76 | 44.32 | 74.00 | 29.68 | Pass | V | Peak |
| 9 | 26200.0000 | 40.40 | 0.00 | -59.99 | 65.55 | 45.96 | 74.00 | 28.04 | Pass | V | Peak |
| 10 | 28214.0107 | 39.76 | 0.00 | -60.27 | 69.33 | 48.82 | 74.00 | 25.18 | Pass | V | Peak |
| 11 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.71 | 48.36 | 74.00 | 25.64 | Pass | V | Peak |
| 12 | 36680.0000 | 43.10 | 0.00 | -57.75 | 64.76 | 50.11 | 74.00 | 23.89 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18885.5443 | 38.76 | 0.00 | -63.48 | 71.86 | 47.14 | 74.00 | 26.86 | Pass | H | Peak |
| 2 | 20800.0000 | 38.69 | 0.00 | -63.05 | 68.63 | 44.27 | 74.00 | 29.73 | Pass | H | Peak |
| 3 | 26000.0000 | 40.40 | 0.00 | -58.82 | 65.82 | 47.40 | 74.00 | 26.60 | Pass | H | Peak |
| 4 | 28817.9409 | 40.17 | 0.00 | -60.56 | 68.95 | 48.56 | 74.00 | 25.44 | Pass | H | Peak |
| 5 | 31200.0000 | 41.43 | 0.00 | -59.31 | 64.51 | 46.63 | 74.00 | 27.37 | Pass | H | Peak |
| 6 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.56 | 49.97 | 74.00 | 24.03 | Pass | H | Peak |
| 7 | 19843.6922 | 38.97 | 0.00 | -62.66 | 70.59 | 46.90 | 74.00 | 27.10 | Pass | V | Peak |
| 8 | 20800.0000 | 38.69 | 0.00 | -63.05 | 69.26 | 44.90 | 74.00 | 29.10 | Pass | V | Peak |
| 9 | 26000.0000 | 40.40 | 0.00 | -58.82 | 65.68 | 47.26 | 74.00 | 26.74 | Pass | V | Peak |
| 10 | 28459.3230 | 39.93 | 0.00 | -60.65 | 69.34 | 48.62 | 74.00 | 25.38 | Pass | V | Peak |
| 11 | 31200.0000 | 41.43 | 0.00 | -59.31 | 64.76 | 46.88 | 74.00 | 27.12 | Pass | V | Peak |
| 12 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.21 | 49.62 | 74.00 | 24.38 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 20960.0000 | 38.63 | 0.00 | -63.07 | 69.20 | 44.76 | 74.00 | 29.24 | Pass | H | Peak |
| 2 | 24422.1211 | 40.40 | 0.00 | -60.22 | 68.95 | 49.13 | 74.00 | 24.87 | Pass | H | Peak |
| 3 | 26200.0000 | 40.40 | 0.00 | -59.99 | 65.92 | 46.33 | 74.00 | 27.67 | Pass | H | Peak |
| 4 | 29622.0811 | 40.64 | 0.00 | -59.95 | 68.05 | 48.74 | 74.00 | 25.26 | Pass | H | Peak |
| 5 | 31440.0000 | 41.61 | 0.00 | -58.96 | 64.97 | 47.62 | 74.00 | 26.38 | Pass | H | Peak |
| 6 | 36680.0000 | 43.10 | 0.00 | -57.75 | 64.04 | 49.39 | 74.00 | 24.61 | Pass | H | Peak |
| 7 | 19716.0858 | 38.97 | 0.00 | -62.73 | 71.90 | 48.14 | 74.00 | 25.86 | Pass | V | Peak |
| 8 | 20960.0000 | 38.63 | 0.00 | -63.07 | 68.07 | 43.63 | 74.00 | 30.37 | Pass | V | Peak |
| 9 | 26200.0000 | 40.40 | 0.00 | -59.99 | 67.32 | 47.73 | 74.00 | 26.27 | Pass | V | Peak |
| 10 | 29567.0784 | 40.61 | 0.00 | -60.01 | 67.84 | 48.44 | 74.00 | 25.56 | Pass | V | Peak |
| 11 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.57 | 48.22 | 74.00 | 25.78 | Pass | V | Peak |
| 12 | 36680.0000 | 43.10 | 0.00 | -57.75 | 64.96 | 50.31 | 74.00 | 23.69 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19177.0589 | 38.96 | 0.00 | -63.32 | 71.31 | 46.95 | 74.00 | 27.05 | Pass | H | Peak |
| 2 | 20720.0000 | 38.72 | 0.00 | -63.22 | 68.32 | 43.82 | 74.00 | 30.18 | Pass | H | Peak |
| 3 | 25900.0000 | 40.43 | 0.00 | -59.10 | 65.76 | 47.09 | 74.00 | 26.91 | Pass | H | Peak |
| 4 | 28816.8408 | 40.17 | 0.00 | -60.57 | 69.05 | 48.65 | 74.00 | 25.35 | Pass | H | Peak |
| 5 | 31080.0000 | 41.34 | 0.00 | -58.91 | 65.58 | 48.01 | 74.00 | 25.99 | Pass | H | Peak |
| 6 | 36260.0000 | 43.14 | 0.00 | -57.95 | 64.93 | 50.12 | 74.00 | 23.88 | Pass | H | Peak |
| 7 | 19350.8675 | 38.96 | 0.00 | -62.99 | 71.54 | 47.51 | 74.00 | 26.49 | Pass | V | Peak |
| 8 | 20720.0000 | 38.72 | 0.00 | -63.22 | 67.80 | 43.30 | 74.00 | 30.70 | Pass | V | Peak |
| 9 | 25900.0000 | 40.43 | 0.00 | -59.10 | 65.68 | 47.01 | 74.00 | 26.99 | Pass | V | Peak |
| 10 | 29178.7589 | 40.40 | 0.00 | -60.66 | 69.48 | 49.22 | 74.00 | 24.78 | Pass | V | Peak |
| 11 | 31080.0000 | 41.34 | 0.00 | -58.91 | 64.35 | 46.78 | 74.00 | 27.22 | Pass | V | Peak |
| 12 | 36260.0000 | 43.14 | 0.00 | -57.95 | 64.98 | 50.17 | 74.00 | 23.83 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18751.3376 | 38.52 | 0.00 | -63.59 | 71.73 | 46.66 | 74.00 | 27.34 | Pass | H | Peak |
| 2 | 20800.0000 | 38.69 | 0.00 | -63.05 | 69.61 | 45.25 | 74.00 | 28.75 | Pass | H | Peak |
| 3 | 26000.0000 | 40.40 | 0.00 | -58.82 | 65.82 | 47.40 | 74.00 | 26.60 | Pass | H | Peak |
| 4 | 29745.2873 | 40.71 | 0.00 | -60.21 | 68.94 | 49.44 | 74.00 | 24.56 | Pass | H | Peak |
| 5 | 31200.0000 | 41.43 | 0.00 | -59.31 | 64.20 | 46.32 | 74.00 | 27.68 | Pass | H | Peak |
| 6 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.78 | 50.19 | 74.00 | 23.81 | Pass | H | Peak |
| 7 | 19039.5520 | 38.96 | 0.00 | -63.43 | 71.67 | 47.20 | 74.00 | 26.80 | Pass | V | Peak |
| 8 | 20800.0000 | 38.69 | 0.00 | -63.05 | 68.76 | 44.40 | 74.00 | 29.60 | Pass | V | Peak |
| 9 | 26000.0000 | 40.40 | 0.00 | -58.82 | 65.00 | 46.58 | 74.00 | 27.42 | Pass | V | Peak |
| 10 | 29576.9788 | 40.62 | 0.00 | -59.98 | 69.15 | 49.79 | 74.00 | 24.21 | Pass | V | Peak |
| 11 | 31200.0000 | 41.43 | 0.00 | -59.31 | 65.67 | 47.79 | 74.00 | 26.21 | Pass | V | Peak |
| 12 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.43 | 49.84 | 74.00 | 24.16 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19758.9879 | 38.97 | 0.00 | -62.66 | 70.98 | 47.29 | 74.00 | 26.71 | Pass | H | Peak |
| 2 | 20960.0000 | 38.63 | 0.00 | -63.07 | 69.16 | 44.72 | 74.00 | 29.28 | Pass | H | Peak |
| 3 | 26200.0000 | 40.40 | 0.00 | -59.99 | 65.12 | 45.53 | 74.00 | 28.47 | Pass | H | Peak |
| 4 | 29576.9788 | 40.62 | 0.00 | -59.98 | 67.84 | 48.48 | 74.00 | 25.52 | Pass | H | Peak |
| 5 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.52 | 48.17 | 74.00 | 25.83 | Pass | H | Peak |
| 6 | 36680.0000 | 43.10 | 0.00 | -57.75 | 65.09 | 50.44 | 74.00 | 23.56 | Pass | H | Peak |
| 7 | 19106.6553 | 38.96 | 0.00 | -63.37 | 71.67 | 47.26 | 74.00 | 26.74 | Pass | V | Peak |
| 8 | 20960.0000 | 38.63 | 0.00 | -63.07 | 68.79 | 44.35 | 74.00 | 29.65 | Pass | V | Peak |
| 9 | 26200.0000 | 40.40 | 0.00 | -59.99 | 66.72 | 47.13 | 74.00 | 26.87 | Pass | V | Peak |
| 10 | 28095.2048 | 39.68 | 0.00 | -60.14 | 68.83 | 48.37 | 74.00 | 25.63 | Pass | V | Peak |
| 11 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.18 | 47.83 | 74.00 | 26.17 | Pass | V | Peak |
| 12 | 36680.0000 | 43.10 | 0.00 | -57.75 | 63.98 | 49.33 | 74.00 | 24.67 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19136.3568 | 38.96 | 0.00 | -63.35 | 71.97 | 47.58 | 74.00 | 26.42 | Pass | H | Peak |
| 2 | 20760.0000 | 38.70 | 0.00 | -63.13 | 67.98 | 43.55 | 74.00 | 30.45 | Pass | H | Peak |
| 3 | 25950.0000 | 40.42 | 0.00 | -58.96 | 65.42 | 46.88 | 74.00 | 27.12 | Pass | H | Peak |
| 4 | 28383.4192 | 39.87 | 0.00 | -60.47 | 68.90 | 48.30 | 74.00 | 25.70 | Pass | H | Peak |
| 5 | 31140.0000 | 41.38 | 0.00 | -59.11 | 64.82 | 47.09 | 74.00 | 26.91 | Pass | H | Peak |
| 6 | 36330.0000 | 43.13 | 0.00 | -57.83 | 64.92 | 50.22 | 74.00 | 23.78 | Pass | H | Peak |
| 7 | 19173.7587 | 38.96 | 0.00 | -63.32 | 71.61 | 47.25 | 74.00 | 26.75 | Pass | V | Peak |
| 8 | 20760.0000 | 38.70 | 0.00 | -63.13 | 67.89 | 43.46 | 74.00 | 30.54 | Pass | V | Peak |
| 9 | 25950.0000 | 40.42 | 0.00 | -58.96 | 66.23 | 47.69 | 74.00 | 26.31 | Pass | V | Peak |
| 10 | 29626.4813 | 40.64 | 0.00 | -59.95 | 68.53 | 49.22 | 74.00 | 24.78 | Pass | V | Peak |
| 11 | 31140.0000 | 41.38 | 0.00 | -59.11 | 65.58 | 47.85 | 74.00 | 26.15 | Pass | V | Peak |
| 12 | 36330.0000 | 43.13 | 0.00 | -57.83 | 64.65 | 49.95 | 74.00 | 24.05 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19519.1760 | 38.97 | 0.00 | -62.91 | 70.26 | 46.32 | 74.00 | 27.68 | Pass | H | Peak |
| 2 | 20920.0000 | 38.65 | 0.00 | -63.07 | 67.95 | 43.53 | 74.00 | 30.47 | Pass | H | Peak |
| 3 | 26150.0000 | 40.40 | 0.00 | -59.70 | 65.45 | 46.15 | 74.00 | 27.85 | Pass | H | Peak |
| 4 | 29138.0569 | 40.38 | 0.00 | -60.61 | 69.06 | 48.83 | 74.00 | 25.17 | Pass | H | Peak |
| 5 | 31380.0000 | 41.56 | 0.00 | -59.01 | 65.77 | 48.32 | 74.00 | 25.68 | Pass | H | Peak |
| 6 | 36610.0000 | 43.11 | 0.00 | -57.32 | 64.95 | 50.74 | 74.00 | 23.26 | Pass | H | Peak |
| 7 | 19183.6592 | 38.96 | 0.00 | -63.31 | 71.74 | 47.39 | 74.00 | 26.61 | Pass | V | Peak |
| 8 | 20920.0000 | 38.65 | 0.00 | -63.07 | 68.97 | 44.55 | 74.00 | 29.45 | Pass | V | Peak |
| 9 | 26150.0000 | 40.40 | 0.00 | -59.70 | 65.65 | 46.35 | 74.00 | 27.65 | Pass | V | Peak |
| 10 | 29177.6589 | 40.40 | 0.00 | -60.66 | 69.24 | 48.98 | 74.00 | 25.02 | Pass | V | Peak |
| 11 | 31380.0000 | 41.56 | 0.00 | -59.01 | 65.55 | 48.10 | 74.00 | 25.90 | Pass | V | Peak |
| 12 | 36610.0000 | 43.11 | 0.00 | -57.32 | 65.14 | 50.93 | 74.00 | 23.07 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18871.2436 | 38.73 | 0.00 | -63.48 | 72.37 | 47.62 | 74.00 | 26.38 | Pass | H | Peak |
| 2 | 20720.0000 | 38.72 | 0.00 | -63.22 | 69.61 | 45.11 | 74.00 | 28.89 | Pass | H | Peak |
| 3 | 25900.0000 | 40.43 | 0.00 | -59.10 | 65.39 | 46.72 | 74.00 | 27.28 | Pass | H | Peak |
| 4 | 28936.7468 | 40.26 | 0.00 | -60.49 | 68.83 | 48.60 | 74.00 | 25.40 | Pass | H | Peak |
| 5 | 31080.0000 | 41.34 | 0.00 | -58.91 | 64.82 | 47.25 | 74.00 | 26.75 | Pass | H | Peak |
| 6 | 36260.0000 | 43.14 | 0.00 | -57.95 | 64.76 | 49.95 | 74.00 | 24.05 | Pass | H | Peak |
| 7 | 18797.5399 | 38.60 | 0.00 | -63.49 | 72.08 | 47.19 | 74.00 | 26.81 | Pass | H | Peak |
| 8 | 20720.0000 | 38.72 | 0.00 | -63.22 | 69.48 | 44.98 | 74.00 | 29.02 | Pass | V | Peak |
| 9 | 25900.0000 | 40.43 | 0.00 | -59.10 | 65.65 | 46.98 | 74.00 | 27.02 | Pass | V | Peak |
| 10 | 29249.1625 | 40.44 | 0.00 | -60.65 | 68.42 | 48.21 | 74.00 | 25.79 | Pass | V | Peak |
| 11 | 31080.0000 | 41.34 | 0.00 | -58.91 | 64.92 | 47.35 | 74.00 | 26.65 | Pass | V | Peak |
| 12 | 36260.0000 | 43.14 | 0.00 | -57.95 | 64.34 | 49.53 | 74.00 | 24.47 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19826.0913 | 38.97 | 0.00 | -62.63 | 71.22 | 47.56 | 74.00 | 26.44 | Pass | H | Peak |
| 2 | 20800.0000 | 38.69 | 0.00 | -63.05 | 69.00 | 44.64 | 74.00 | 29.36 | Pass | H | Peak |
| 3 | 26000.0000 | 40.40 | 0.00 | -58.82 | 66.00 | 47.58 | 74.00 | 26.42 | Pass | H | Peak |
| 4 | 30263.4132 | 40.96 | 0.00 | -60.38 | 68.70 | 49.28 | 74.00 | 24.72 | Pass | H | Peak |
| 5 | 31200.0000 | 41.43 | 0.00 | -59.31 | 65.13 | 47.25 | 74.00 | 26.75 | Pass | H | Peak |
| 6 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.25 | 49.66 | 74.00 | 24.34 | Pass | H | Peak |
| 7 | 18664.4332 | 38.37 | 0.00 | -63.77 | 72.00 | 46.60 | 74.00 | 27.40 | Pass | V | Peak |
| 8 | 20800.0000 | 38.69 | 0.00 | -63.05 | 68.55 | 44.19 | 74.00 | 29.81 | Pass | V | Peak |
| 9 | 26000.0000 | 40.40 | 0.00 | -58.82 | 65.72 | 47.30 | 74.00 | 26.70 | Pass | V | Peak |
| 10 | 29947.6974 | 40.82 | 0.00 | -59.88 | 68.35 | 49.29 | 74.00 | 24.71 | Pass | V | Peak |
| 11 | 31200.0000 | 41.43 | 0.00 | -59.31 | 65.03 | 47.15 | 74.00 | 26.85 | Pass | V | Peak |
| 12 | 36400.0000 | 43.12 | 0.00 | -57.71 | 64.46 | 49.87 | 74.00 | 24.13 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19734.7867 | 38.97 | 0.00 | -62.70 | 71.58 | 47.85 | 74.00 | 26.15 | Pass | H | Peak |
| 2 | 20960.0000 | 38.63 | 0.00 | -63.07 | 68.17 | 43.73 | 74.00 | 30.27 | Pass | H | Peak |
| 3 | 26200.0000 | 40.40 | 0.00 | -59.99 | 65.88 | 46.29 | 74.00 | 27.71 | Pass | H | Peak |
| 4 | 28854.2427 | 40.20 | 0.00 | -60.55 | 68.95 | 48.60 | 74.00 | 25.40 | Pass | H | Peak |
| 5 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.38 | 48.03 | 74.00 | 25.97 | Pass | H | Peak |
| 6 | 36680.0000 | 43.10 | 0.00 | -57.75 | 63.68 | 49.03 | 74.00 | 24.97 | Pass | H | Peak |
| 7 | 19355.2678 | 38.96 | 0.00 | -62.99 | 71.11 | 47.08 | 74.00 | 26.92 | Pass | V | Peak |
| 8 | 20960.0000 | 38.63 | 0.00 | -63.07 | 68.91 | 44.47 | 74.00 | 29.53 | Pass | V | Peak |
| 9 | 26200.0000 | 40.40 | 0.00 | -59.99 | 65.39 | 45.80 | 74.00 | 28.20 | Pass | V | Peak |
| 10 | 29109.4555 | 40.36 | 0.00 | -60.58 | 69.16 | 48.94 | 74.00 | 25.06 | Pass | V | Peak |
| 11 | 31440.0000 | 41.61 | 0.00 | -58.96 | 65.73 | 48.38 | 74.00 | 25.62 | Pass | V | Peak |
| 12 | 36680.0000 | 43.10 | 0.00 | -57.75 | 64.55 | 49.90 | 74.00 | 24.10 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19292.5646 | 38.96 | 0.00 | -63.11 | 70.56 | 46.41 | 74.00 | 27.59 | Pass | H | Peak |
| 2 | 20760.0000 | 38.70 | 0.00 | -63.13 | 69.47 | 45.04 | 74.00 | 28.96 | Pass | H | Peak |
| 3 | 25950.0000 | 40.42 | 0.00 | -58.96 | 66.47 | 47.93 | 74.00 | 26.07 | Pass | H | Peak |
| 4 | 29601.1801 | 40.63 | 0.00 | -59.90 | 69.47 | 50.20 | 74.00 | 23.80 | Pass | H | Peak |
| 5 | 31140.0000 | 41.38 | 0.00 | -59.11 | 65.14 | 47.41 | 74.00 | 26.59 | Pass | H | Peak |
| 6 | 36330.0000 | 43.13 | 0.00 | -57.83 | 64.35 | 49.65 | 74.00 | 24.35 | Pass | H | Peak |
| 7 | 19398.1699 | 38.96 | 0.00 | -62.90 | 70.82 | 46.88 | 74.00 | 27.12 | Pass | V | Peak |
| 8 | 20760.0000 | 38.70 | 0.00 | -63.13 | 67.96 | 43.53 | 74.00 | 30.47 | Pass | V | Peak |
| 9 | 25950.0000 | 40.42 | 0.00 | -58.96 | 66.04 | 47.50 | 74.00 | 26.50 | Pass | V | Peak |
| 10 | 28434.0217 | 39.91 | 0.00 | -60.58 | 69.25 | 48.58 | 74.00 | 25.42 | Pass | V | Peak |
| 11 | 31140.0000 | 41.38 | 0.00 | -59.11 | 64.68 | 46.95 | 74.00 | 27.05 | Pass | V | Peak |
| 12 | 36330.0000 | 43.13 | 0.00 | -57.83 | 64.64 | 49.94 | 74.00 | 24.06 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18400.4200 | 37.90 | 0.00 | -63.90 | 72.17 | 46.17 | 74.00 | 27.83 | Pass | H | Peak |
| 2 | 20920.0000 | 38.65 | 0.00 | -63.07 | 68.52 | 44.10 | 74.00 | 29.90 | Pass | H | Peak |
| 3 | 26150.0000 | 40.40 | 0.00 | -59.70 | 65.41 | 46.11 | 74.00 | 27.89 | Pass | H | Peak |
| 4 | 28894.9447 | 40.23 | 0.00 | -60.52 | 68.91 | 48.62 | 74.00 | 25.38 | Pass | H | Peak |
| 5 | 31380.0000 | 41.56 | 0.00 | -59.01 | 65.80 | 48.35 | 74.00 | 25.65 | Pass | H | Peak |
| 6 | 36610.0000 | 43.11 | 0.00 | -57.32 | 64.39 | 50.18 | 74.00 | 23.82 | Pass | H | Peak |
| 7 | 19482.8741 | 38.96 | 0.00 | -62.90 | 71.80 | 47.86 | 74.00 | 26.14 | Pass | V | Peak |
| 8 | 20920.0000 | 38.65 | 0.00 | -63.07 | 68.33 | 43.91 | 74.00 | 30.09 | Pass | V | Peak |
| 9 | 26150.0000 | 40.40 | 0.00 | -59.70 | 66.02 | 46.72 | 74.00 | 27.28 | Pass | V | Peak |
| 10 | 28231.6116 | 39.77 | 0.00 | -60.29 | 69.21 | 48.69 | 74.00 | 25.31 | Pass | V | Peak |
| 11 | 31380.0000 | 41.56 | 0.00 | -59.01 | 65.07 | 47.62 | 74.00 | 26.38 | Pass | V | Peak |
| 12 | 36610.0000 | 43.11 | 0.00 | -57.32 | 64.71 | 50.50 | 74.00 | 23.50 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5210 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19346.4673 | 38.96 | 0.00 | -63.00 | 72.28 | 48.24 | 74.00 | 25.76 | Pass | H | Peak |
| 2 | 20840.0000 | 38.68 | 0.00 | -63.06 | 69.45 | 45.07 | 74.00 | 28.93 | Pass | H | Peak |
| 3 | 26050.0000 | 40.40 | 0.00 | -59.11 | 65.15 | 46.44 | 74.00 | 27.56 | Pass | H | Peak |
| 4 | 28857.5429 | 40.20 | 0.00 | -60.54 | 68.62 | 48.28 | 74.00 | 25.72 | Pass | H | Peak |
| 5 | 31260.0000 | 41.47 | 0.00 | -59.21 | 65.34 | 47.60 | 74.00 | 26.40 | Pass | H | Peak |
| 6 | 36470.0000 | 43.12 | 0.00 | -57.56 | 64.65 | 50.21 | 74.00 | 23.79 | Pass | H | Peak |
| 7 | 18726.0363 | 38.48 | 0.00 | -63.64 | 72.22 | 47.06 | 74.00 | 26.94 | Pass | V | Peak |
| 8 | 20840.0000 | 38.68 | 0.00 | -63.06 | 68.05 | 43.67 | 74.00 | 30.33 | Pass | V | Peak |
| 9 | 26050.0000 | 40.40 | 0.00 | -59.11 | 65.65 | 46.94 | 74.00 | 27.06 | Pass | V | Peak |
| 10 | 29195.2598 | 40.41 | 0.00 | -60.68 | 69.00 | 48.73 | 74.00 | 25.27 | Pass | V | Peak |
| 11 | 31260.0000 | 41.47 | 0.00 | -59.21 | 64.95 | 47.21 | 74.00 | 26.79 | Pass | V | Peak |
| 12 | 36470.0000 | 43.12 | 0.00 | -57.56 | 64.97 | 50.53 | 74.00 | 23.47 | Pass | V | Peak |

**Band-4**

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19523.5762 | 38.97 | 0.00 | -62.91 | 71.48 | 47.54 | 74.00 | 26.46 | Pass | H | Peak |
| 2 | 22980.0000 | 38.83 | 0.00 | -62.51 | 67.71 | 44.03 | 74.00 | 29.97 | Pass | H | Peak |
| 3 | 25786.1893 | 40.47 | 0.00 | -59.37 | 68.65 | 49.75 | 74.00 | 24.25 | Pass | H | Peak |
| 4 | 28725.0000 | 40.11 | 0.00 | -60.73 | 67.27 | 46.65 | 74.00 | 27.35 | Pass | H | Peak |
| 5 | 30990.5495 | 41.28 | 0.00 | -58.66 | 68.19 | 50.81 | 74.00 | 23.19 | Pass | H | Peak |
| 6 | 34470.0000 | 42.61 | 0.00 | -58.17 | 64.63 | 49.07 | 74.00 | 24.93 | Pass | H | Peak |
| 7 | 19771.0886 | 38.97 | 0.00 | -62.64 | 72.15 | 48.48 | 74.00 | 25.52 | Pass | V | Peak |
| 8 | 22980.0000 | 38.83 | 0.00 | -62.51 | 68.91 | 45.23 | 74.00 | 28.77 | Pass | V | Peak |
| 9 | 26928.0464 | 40.38 | 0.00 | -60.13 | 68.74 | 48.99 | 74.00 | 25.01 | Pass | V | Peak |
| 10 | 28725.0000 | 40.11 | 0.00 | -60.73 | 66.90 | 46.28 | 74.00 | 27.72 | Pass | V | Peak |
| 11 | 30950.9475 | 41.26 | 0.00 | -58.72 | 67.95 | 50.49 | 74.00 | 23.51 | Pass | V | Peak |
| 12 | 34470.0000 | 42.61 | 0.00 | -58.17 | 64.03 | 48.47 | 74.00 | 25.53 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18979.0490 | 38.92 | 0.00 | -63.46 | 71.93 | 47.39 | 74.00 | 26.61 | Pass | H | Peak |
| 2 | 23140.0000 | 39.03 | 0.00 | -62.52 | 67.20 | 43.71 | 74.00 | 30.29 | Pass | H | Peak |
| 3 | 26899.4450 | 40.38 | 0.00 | -60.16 | 68.36 | 48.58 | 74.00 | 25.42 | Pass | H | Peak |
| 4 | 28925.0000 | 40.25 | 0.00 | -60.50 | 67.75 | 47.50 | 74.00 | 26.50 | Pass | H | Peak |
| 5 | 32841.9421 | 42.08 | 0.00 | -58.55 | 67.21 | 50.74 | 74.00 | 23.26 | Pass | H | Peak |
| 6 | 34710.0000 | 42.80 | 0.00 | -58.08 | 64.72 | 49.44 | 74.00 | 24.56 | Pass | H | Peak |
| 7 | 18949.3475 | 38.87 | 0.00 | -63.47 | 72.69 | 48.09 | 74.00 | 25.91 | Pass | V | Peak |
| 8 | 23140.0000 | 39.03 | 0.00 | -62.52 | 69.42 | 45.93 | 74.00 | 28.07 | Pass | V | Peak |
| 9 | 26402.2201 | 40.39 | 0.00 | -59.83 | 68.62 | 49.18 | 74.00 | 24.82 | Pass | V | Peak |
| 10 | 28925.0000 | 40.25 | 0.00 | -60.50 | 66.67 | 46.42 | 74.00 | 27.58 | Pass | V | Peak |
| 11 | 30724.3362 | 41.16 | 0.00 | -59.32 | 68.18 | 50.02 | 74.00 | 23.98 | Pass | V | Peak |
| 12 | 34710.0000 | 42.80 | 0.00 | -58.08 | 64.98 | 49.70 | 74.00 | 24.30 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19152.8576 | 38.96 | 0.00 | -63.34 | 72.16 | 47.78 | 74.00 | 26.22 | Pass | H | Peak |
| 2 | 23300.0000 | 39.24 | 0.00 | -62.24 | 68.00 | 45.00 | 74.00 | 29.00 | Pass | H | Peak |
| 3 | 25152.5576 | 40.66 | 0.00 | -59.63 | 68.18 | 49.21 | 74.00 | 24.79 | Pass | H | Peak |
| 4 | 29125.0000 | 40.37 | 0.00 | -60.60 | 67.34 | 47.11 | 74.00 | 26.89 | Pass | H | Peak |
| 5 | 31485.5743 | 41.64 | 0.00 | -58.93 | 68.00 | 50.71 | 74.00 | 23.29 | Pass | H | Peak |
| 6 | 34950.0000 | 43.00 | 0.00 | -57.64 | 65.00 | 50.36 | 74.00 | 23.64 | Pass | H | Peak |
| 7 | 19798.5899 | 38.97 | 0.00 | -62.59 | 71.93 | 48.31 | 74.00 | 25.69 | Pass | V | Peak |
| 8 | 23300.0000 | 39.24 | 0.00 | -62.24 | 68.34 | 45.34 | 74.00 | 28.66 | Pass | V | Peak |
| 9 | 26996.2498 | 40.38 | 0.00 | -60.06 | 69.01 | 49.33 | 74.00 | 24.67 | Pass | V | Peak |
| 10 | 29125.0000 | 40.37 | 0.00 | -60.60 | 66.94 | 46.71 | 74.00 | 27.29 | Pass | V | Peak |
| 11 | 31524.0762 | 41.67 | 0.00 | -58.91 | 67.97 | 50.73 | 74.00 | 23.27 | Pass | V | Peak |
| 12 | 34950.0000 | 43.00 | 0.00 | -57.64 | 64.20 | 49.56 | 74.00 | 24.44 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19582.9791 | 38.97 | 0.00 | -62.91 | 71.85 | 47.91 | 74.00 | 26.09 | Pass | H | Peak |
| 2 | 22980.0000 | 38.83 | 0.00 | -62.51 | 68.66 | 44.98 | 74.00 | 29.02 | Pass | H | Peak |
| 3 | 25851.0926 | 40.45 | 0.00 | -59.24 | 68.49 | 49.70 | 74.00 | 24.30 | Pass | H | Peak |
| 4 | 28725.0000 | 40.11 | 0.00 | -60.73 | 67.77 | 47.15 | 74.00 | 26.85 | Pass | H | Peak |
| 5 | 31714.3857 | 41.81 | 0.00 | -59.01 | 67.33 | 50.13 | 74.00 | 23.87 | Pass | H | Peak |
| 6 | 34470.0000 | 42.61 | 0.00 | -58.17 | 64.01 | 48.45 | 74.00 | 25.55 | Pass | H | Peak |
| 7 | 19850.2925 | 38.97 | 0.00 | -62.67 | 72.00 | 48.30 | 74.00 | 25.70 | Pass | V | Peak |
| 8 | 22980.0000 | 38.83 | 0.00 | -62.51 | 68.07 | 44.39 | 74.00 | 29.61 | Pass | V | Peak |
| 9 | 25946.7973 | 40.42 | 0.00 | -58.97 | 68.72 | 50.17 | 74.00 | 23.83 | Pass | V | Peak |
| 10 | 28725.0000 | 40.11 | 0.00 | -60.73 | 67.28 | 46.66 | 74.00 | 27.34 | Pass | V | Peak |
| 11 | 31533.9767 | 41.68 | 0.00 | -58.91 | 67.68 | 50.45 | 74.00 | 23.55 | Pass | V | Peak |
| 12 | 34470.0000 | 42.61 | 0.00 | -58.17 | 63.55 | 47.99 | 74.00 | 26.01 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19318.9659 | 38.96 | 0.00 | -63.06 | 71.50 | 47.40 | 74.00 | 26.60 | Pass | H | Peak |
| 2 | 23140.0000 | 39.03 | 0.00 | -62.52 | 67.34 | 43.85 | 74.00 | 30.15 | Pass | H | Peak |
| 3 | 26039.2020 | 40.40 | 0.00 | -59.05 | 68.36 | 49.71 | 74.00 | 24.29 | Pass | H | Peak |
| 4 | 28925.0000 | 40.25 | 0.00 | -60.50 | 67.20 | 46.95 | 74.00 | 27.05 | Pass | H | Peak |
| 5 | 31047.7524 | 41.32 | 0.00 | -58.80 | 67.75 | 50.27 | 74.00 | 23.73 | Pass | H | Peak |
| 6 | 34710.0000 | 42.80 | 0.00 | -58.08 | 64.30 | 49.02 | 74.00 | 24.98 | Pass | H | Peak |
| 7 | 19359.6680 | 38.96 | 0.00 | -62.98 | 72.64 | 48.62 | 74.00 | 25.38 | Pass | V | Peak |
| 8 | 23140.0000 | 39.03 | 0.00 | -62.52 | 66.78 | 43.29 | 74.00 | 30.71 | Pass | V | Peak |
| 9 | 26587.0294 | 40.39 | 0.00 | -59.80 | 68.44 | 49.03 | 74.00 | 24.97 | Pass | V | Peak |
| 10 | 28925.0000 | 40.25 | 0.00 | -60.50 | 66.90 | 46.65 | 74.00 | 27.35 | Pass | V | Peak |
| 11 | 31417.3709 | 41.59 | 0.00 | -58.97 | 68.21 | 50.83 | 74.00 | 23.17 | Pass | V | Peak |
| 12 | 34710.0000 | 42.80 | 0.00 | -58.08 | 64.36 | 49.08 | 74.00 | 24.92 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19415.7708 | 38.96 | 0.00 | -62.90 | 71.34 | 47.40 | 74.00 | 26.60 | Pass | H | Peak |
| 2 | 23300.0000 | 39.24 | 0.00 | -62.24 | 68.31 | 45.31 | 74.00 | 28.69 | Pass | H | Peak |
| 3 | 25907.1954 | 40.43 | 0.00 | -59.08 | 67.92 | 49.27 | 74.00 | 24.73 | Pass | H | Peak |
| 4 | 29125.0000 | 40.37 | 0.00 | -60.60 | 67.06 | 46.83 | 74.00 | 27.17 | Pass | H | Peak |
| 5 | 31386.5693 | 41.57 | 0.00 | -59.01 | 67.72 | 50.28 | 74.00 | 23.72 | Pass | H | Peak |
| 6 | 34950.0000 | 43.00 | 0.00 | -57.64 | 64.21 | 49.57 | 74.00 | 24.43 | Pass | H | Peak |
| 7 | 19904.1952 | 38.97 | 0.00 | -62.76 | 71.56 | 47.77 | 74.00 | 26.23 | Pass | V | Peak |
| 8 | 23300.0000 | 39.24 | 0.00 | -62.24 | 68.02 | 45.02 | 74.00 | 28.98 | Pass | V | Peak |
| 9 | 25919.2960 | 40.43 | 0.00 | -59.05 | 67.86 | 49.24 | 74.00 | 24.76 | Pass | V | Peak |
| 10 | 29125.0000 | 40.37 | 0.00 | -60.60 | 66.09 | 45.86 | 74.00 | 28.14 | Pass | V | Peak |
| 11 | 31016.9508 | 41.29 | 0.00 | -58.69 | 67.80 | 50.40 | 74.00 | 23.60 | Pass | V | Peak |
| 12 | 34950.0000 | 43.00 | 0.00 | -57.64 | 64.70 | 50.06 | 74.00 | 23.94 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19041.7521 | 38.96 | 0.00 | -63.43 | 71.75 | 47.28 | 74.00 | 26.72 | Pass | H | Peak |
| 2 | 23020.0000 | 38.87 | 0.00 | -62.46 | 67.67 | 44.08 | 74.00 | 29.92 | Pass | H | Peak |
| 3 | 25974.2987 | 40.41 | 0.00 | -58.89 | 67.95 | 49.47 | 74.00 | 24.53 | Pass | H | Peak |
| 4 | 28775.0000 | 40.14 | 0.00 | -60.63 | 67.14 | 46.65 | 74.00 | 27.35 | Pass | H | Peak |
| 5 | 31343.6672 | 41.53 | 0.00 | -59.07 | 67.78 | 50.24 | 74.00 | 23.76 | Pass | H | Peak |
| 6 | 34530.0000 | 42.66 | 0.00 | -57.94 | 63.02 | 47.74 | 74.00 | 26.26 | Pass | H | Peak |
| 7 | 19268.3634 | 38.96 | 0.00 | -63.16 | 72.34 | 48.14 | 74.00 | 25.86 | Pass | V | Peak |
| 8 | 23020.0000 | 38.87 | 0.00 | -62.46 | 67.56 | 43.97 | 74.00 | 30.03 | Pass | V | Peak |
| 9 | 26039.2020 | 40.40 | 0.00 | -59.05 | 67.92 | 49.27 | 74.00 | 24.73 | Pass | V | Peak |
| 10 | 28775.0000 | 40.14 | 0.00 | -60.63 | 68.53 | 48.04 | 74.00 | 25.96 | Pass | V | Peak |
| 11 | 31755.0878 | 41.84 | 0.00 | -59.07 | 67.27 | 50.04 | 74.00 | 23.96 | Pass | V | Peak |
| 12 | 34530.0000 | 42.66 | 0.00 | -57.94 | 62.70 | 47.42 | 74.00 | 26.58 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19211.1606 | 38.96 | 0.00 | -63.28 | 72.42 | 48.10 | 74.00 | 25.90 | Pass | H | Peak |
| 2 | 23180.0000 | 39.08 | 0.00 | -62.54 | 67.24 | 43.78 | 74.00 | 30.22 | Pass | H | Peak |
| 3 | 25849.9925 | 40.45 | 0.00 | -59.24 | 68.00 | 49.21 | 74.00 | 24.79 | Pass | H | Peak |
| 4 | 28975.0000 | 40.28 | 0.00 | -60.46 | 66.62 | 46.44 | 74.00 | 27.56 | Pass | H | Peak |
| 5 | 31700.0850 | 41.80 | 0.00 | -59.00 | 67.96 | 50.76 | 74.00 | 23.24 | Pass | H | Peak |
| 6 | 34770.0000 | 42.85 | 0.00 | -58.31 | 63.99 | 48.53 | 74.00 | 25.47 | Pass | H | Peak |
| 7 | 19076.9538 | 38.96 | 0.00 | -63.40 | 72.03 | 47.59 | 74.00 | 26.41 | Pass | V | Peak |
| 8 | 23180.0000 | 39.08 | 0.00 | -62.54 | 67.84 | 44.38 | 74.00 | 29.62 | Pass | V | Peak |
| 9 | 25940.1970 | 40.42 | 0.00 | -58.99 | 68.20 | 49.63 | 74.00 | 24.37 | Pass | V | Peak |
| 10 | 28975.0000 | 40.28 | 0.00 | -60.46 | 66.63 | 46.45 | 74.00 | 27.55 | Pass | V | Peak |
| 11 | 31694.5847 | 41.79 | 0.00 | -58.98 | 67.79 | 50.60 | 74.00 | 23.40 | Pass | V | Peak |
| 12 | 34770.0000 | 42.85 | 0.00 | -58.31 | 63.85 | 48.39 | 74.00 | 25.61 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19562.0781 | 38.97 | 0.00 | -62.91 | 71.46 | 47.52 | 74.00 | 26.48 | Pass | H | Peak |
| 2 | 22980.0000 | 38.83 | 0.00 | -62.51 | 67.77 | 44.09 | 74.00 | 29.91 | Pass | H | Peak |
| 3 | 25969.8985 | 40.41 | 0.00 | -58.90 | 67.43 | 48.94 | 74.00 | 25.06 | Pass | H | Peak |
| 4 | 28725.0000 | 40.11 | 0.00 | -60.73 | 66.89 | 46.27 | 74.00 | 27.73 | Pass | H | Peak |
| 5 | 32770.4385 | 42.07 | 0.00 | -58.46 | 66.77 | 50.38 | 74.00 | 23.62 | Pass | H | Peak |
| 6 | 34470.0000 | 42.61 | 0.00 | -58.17 | 64.31 | 48.75 | 74.00 | 25.25 | Pass | H | Peak |
| 7 | 18412.5206 | 37.92 | 0.00 | -63.90 | 73.71 | 47.73 | 74.00 | 26.27 | Pass | V | Peak |
| 8 | 22980.0000 | 38.83 | 0.00 | -62.51 | 68.19 | 44.51 | 74.00 | 29.49 | Pass | V | Peak |
| 9 | 25985.2993 | 40.40 | 0.00 | -58.86 | 67.42 | 48.96 | 74.00 | 25.04 | Pass | V | Peak |
| 10 | 28725.0000 | 40.11 | 0.00 | -60.73 | 67.12 | 46.50 | 74.00 | 27.50 | Pass | V | Peak |
| 11 | 31822.1911 | 41.89 | 0.00 | -59.09 | 67.39 | 50.19 | 74.00 | 23.81 | Pass | V | Peak |
| 12 | 34470.0000 | 42.61 | 0.00 | -58.17 | 64.18 | 48.62 | 74.00 | 25.38 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19731.4866 | 38.97 | 0.00 | -62.70 | 71.66 | 47.93 | 74.00 | 26.07 | Pass | H | Peak |
| 2 | 23140.0000 | 39.03 | 0.00 | -62.52 | 68.34 | 44.85 | 74.00 | 29.15 | Pass | H | Peak |
| 3 | 25468.2734 | 40.56 | 0.00 | -59.68 | 68.10 | 48.98 | 74.00 | 25.02 | Pass | H | Peak |
| 4 | 28925.0000 | 40.25 | 0.00 | -60.50 | 65.92 | 45.67 | 74.00 | 28.33 | Pass | H | Peak |
| 5 | 31653.8827 | 41.76 | 0.00 | -58.93 | 67.14 | 49.97 | 74.00 | 24.03 | Pass | H | Peak |
| 6 | 34710.0000 | 42.80 | 0.00 | -58.08 | 64.17 | 48.89 | 74.00 | 25.11 | Pass | H | Peak |
| 7 | 18816.2408 | 38.63 | 0.00 | -63.48 | 71.55 | 46.70 | 74.00 | 27.30 | Pass | V | Peak |
| 8 | 23140.0000 | 39.03 | 0.00 | -62.52 | 67.70 | 44.21 | 74.00 | 29.79 | Pass | V | Peak |
| 9 | 26027.1014 | 40.40 | 0.00 | -58.98 | 68.05 | 49.47 | 74.00 | 24.53 | Pass | V | Peak |
| 10 | 28925.0000 | 40.25 | 0.00 | -60.50 | 65.74 | 45.49 | 74.00 | 28.51 | Pass | V | Peak |
| 11 | 32123.6062 | 42.03 | 0.00 | -58.72 | 66.93 | 50.24 | 74.00 | 23.76 | Pass | V | Peak |
| 12 | 34710.0000 | 42.80 | 0.00 | -58.08 | 65.20 | 49.92 | 74.00 | 24.08 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19412.4706 | 38.96 | 0.00 | -62.90 | 71.66 | 47.72 | 74.00 | 26.28 | Pass | H | Peak |
| 2 | 23300.0000 | 39.24 | 0.00 | -62.24 | 67.52 | 44.52 | 74.00 | 29.48 | Pass | H | Peak |
| 3 | 25202.0601 | 40.65 | 0.00 | -59.49 | 68.01 | 49.17 | 74.00 | 24.83 | Pass | H | Peak |
| 4 | 29125.0000 | 40.37 | 0.00 | -60.60 | 66.86 | 46.63 | 74.00 | 27.37 | Pass | H | Peak |
| 5 | 31670.3835 | 41.78 | 0.00 | -58.96 | 67.56 | 50.38 | 74.00 | 23.62 | Pass | H | Peak |
| 6 | 34950.0000 | 43.00 | 0.00 | -57.64 | 64.70 | 50.06 | 74.00 | 23.94 | Pass | H | Peak |
| 7 | 18756.8378 | 38.53 | 0.00 | -63.58 | 72.89 | 47.84 | 74.00 | 26.16 | Pass | V | Peak |
| 8 | 23300.0000 | 39.24 | 0.00 | -62.24 | 68.15 | 45.15 | 74.00 | 28.85 | Pass | V | Peak |
| 9 | 25208.6604 | 40.65 | 0.00 | -59.50 | 68.00 | 49.15 | 74.00 | 24.85 | Pass | V | Peak |
| 10 | 29125.0000 | 40.37 | 0.00 | -60.60 | 66.59 | 46.36 | 74.00 | 27.64 | Pass | V | Peak |
| 11 | 31619.7810 | 41.74 | 0.00 | -58.90 | 67.40 | 50.24 | 74.00 | 23.76 | Pass | V | Peak |
| 12 | 34950.0000 | 43.00 | 0.00 | -57.64 | 64.92 | 50.28 | 74.00 | 23.72 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19888.7944 | 38.97 | 0.00 | -62.73 | 72.34 | 48.58 | 74.00 | 25.42 | Pass | H | Peak |
| 2 | 23020.0000 | 38.87 | 0.00 | -62.46 | 67.13 | 43.54 | 74.00 | 30.46 | Pass | H | Peak |
| 3 | 26541.9271 | 40.39 | 0.00 | -59.81 | 68.49 | 49.07 | 74.00 | 24.93 | Pass | H | Peak |
| 4 | 28775.0000 | 40.14 | 0.00 | -60.63 | 67.05 | 46.56 | 74.00 | 27.44 | Pass | H | Peak |
| 5 | 31729.7865 | 41.82 | 0.00 | -59.03 | 67.07 | 49.86 | 74.00 | 24.14 | Pass | H | Peak |
| 6 | 34530.0000 | 42.66 | 0.00 | -57.94 | 63.24 | 47.96 | 74.00 | 26.04 | Pass | H | Peak |
| 7 | 18954.8477 | 38.88 | 0.00 | -63.47 | 72.59 | 48.00 | 74.00 | 26.00 | Pass | V | Peak |
| 8 | 23020.0000 | 38.87 | 0.00 | -62.46 | 67.56 | 43.97 | 74.00 | 30.03 | Pass | V | Peak |
| 9 | 26958.8479 | 40.38 | 0.00 | -60.10 | 68.83 | 49.11 | 74.00 | 24.89 | Pass | V | Peak |
| 10 | 28775.0000 | 40.14 | 0.00 | -60.63 | 66.95 | 46.46 | 74.00 | 27.54 | Pass | V | Peak |
| 11 | 31717.6859 | 41.81 | 0.00 | -59.02 | 67.19 | 49.98 | 74.00 | 24.02 | Pass | V | Peak |
| 12 | 34530.0000 | 42.66 | 0.00 | -57.94 | 63.31 | 48.03 | 74.00 | 25.97 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 18815.1408 | 38.63 | 0.00 | -63.48 | 71.99 | 47.14 | 74.00 | 26.86 | Pass | H | Peak |
| 2 | 23180.0000 | 39.08 | 0.00 | -62.54 | 68.05 | 44.59 | 74.00 | 29.41 | Pass | H | Peak |
| 3 | 26316.4158 | 40.39 | 0.00 | -59.89 | 68.69 | 49.19 | 74.00 | 24.81 | Pass | H | Peak |
| 4 | 28975.0000 | 40.28 | 0.00 | -60.46 | 66.18 | 46.00 | 74.00 | 28.00 | Pass | H | Peak |
| 5 | 31041.1521 | 41.31 | 0.00 | -58.78 | 67.25 | 49.78 | 74.00 | 24.22 | Pass | H | Peak |
| 6 | 34770.0000 | 42.85 | 0.00 | -58.31 | 63.92 | 48.46 | 74.00 | 25.54 | Pass | H | Peak |
| 7 | 19423.4712 | 38.96 | 0.00 | -62.90 | 71.79 | 47.85 | 74.00 | 26.15 | Pass | V | Peak |
| 8 | 23180.0000 | 39.08 | 0.00 | -62.54 | 67.48 | 44.02 | 74.00 | 29.98 | Pass | V | Peak |
| 9 | 25176.7588 | 40.66 | 0.00 | -59.56 | 67.56 | 48.66 | 74.00 | 25.34 | Pass | V | Peak |
| 10 | 28975.0000 | 40.28 | 0.00 | -60.46 | 66.21 | 46.03 | 74.00 | 27.97 | Pass | V | Peak |
| 11 | 31053.2527 | 41.32 | 0.00 | -58.82 | 67.32 | 49.82 | 74.00 | 24.18 | Pass | V | Peak |
| 12 | 34770.0000 | 42.85 | 0.00 | -58.31 | 64.68 | 49.22 | 74.00 | 24.78 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5775 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 19049.4525 | 38.96 | 0.00 | -63.42 | 72.92 | 48.46 | 74.00 | 25.54 | Pass | H | Peak |
| 2 | 23100.0000 | 38.97 | 0.00 | -62.50 | 66.91 | 43.38 | 74.00 | 30.62 | Pass | H | Peak |
| 3 | 24947.9474 | 40.68 | 0.00 | -60.19 | 68.66 | 49.15 | 74.00 | 24.85 | Pass | H | Peak |
| 4 | 28875.0000 | 40.21 | 0.00 | -60.53 | 66.70 | 46.38 | 74.00 | 27.62 | Pass | H | Peak |
| 5 | 31767.1884 | 41.85 | 0.00 | -59.08 | 67.47 | 50.24 | 74.00 | 23.76 | Pass | H | Peak |
| 6 | 34650.0000 | 42.75 | 0.00 | -57.86 | 64.03 | 48.92 | 74.00 | 25.08 | Pass | H | Peak |
| 7 | 19098.9549 | 38.96 | 0.00 | -63.38 | 71.46 | 47.04 | 74.00 | 26.96 | Pass | V | Peak |
| 8 | 23100.0000 | 38.97 | 0.00 | -62.50 | 67.47 | 43.94 | 74.00 | 30.06 | Pass | V | Peak |
| 9 | 25182.2591 | 40.65 | 0.00 | -59.53 | 67.84 | 48.96 | 74.00 | 25.04 | Pass | V | Peak |
| 10 | 28875.0000 | 40.21 | 0.00 | -60.53 | 65.33 | 45.01 | 74.00 | 28.99 | Pass | V | Peak |
| 11 | 30989.4495 | 41.28 | 0.00 | -58.66 | 67.77 | 50.39 | 74.00 | 23.61 | Pass | V | Peak |
| 12 | 34650.0000 | 42.75 | 0.00 | -57.86 | 64.36 | 49.25 | 74.00 | 24.75 | Pass | V | Peak |

Note:

1) Through Pre-scan transmitting mode with all kind of modulation and data rate, find the MCS0 is the worst case of 802.11a; MCS0 is the worst case of 802.11n(20M)(40M); MCS0 is the worst case of 802.11ac(20M)(40M)(80M); and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

3) Scan from 9kHz to 40GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

# Appendix L): Unwanted Emissions that fall Outside of the Restricted Bands

**Receiver Setup:**

| Frequency | Detector | RBW | VBW | Remark |
|---|---|---|---|---|
| Above 1GHz | Peak | 1MHz | 3MHz | Peak |

**Test Procedure:**

a) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
b)The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f) Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel
j) Test the EUT in the lowest channel or/and the middle channel ,the Highest channel
h) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
i) Repeat above procedures until all frequencies measured was complete.

Limit:

| Transmitter Operation Frequency(MHz) | Limit (EIRP) | Limit (dBμV/m)@3m | Measurement distance (cm) |
|---|---|---|---|
| 5150-5350 | -27dBm/MHz | 68.2dBuV/m | 3 |
| 5470-5725 | -27dBm/MHz | 68.2dBuV/m | 3 |
| 5725-5850 | -27 (dBm/MHz) *1) | 68.2dBuV/m | 3 |
| | 10 (dBm/MHz) *2) | 105.2dBuV/m | 3 |
| | 15.6 (dBm/MHz) *3) | 110.8dBuV/m | 3 |
| | 27 (dBm/MHz) *4) | 122.2dBuV/m | 3 |

Note:

*1) :beyond 75 MHz or more above of the band edge.

*2) :below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3) :below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4) :from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test result: PASS

**Test Data:**

**Band-1**

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1201.8702 | 28.10 | 3.04 | -42.88 | 61.09 | 49.35 | 68.20 | 18.85 | Pass | H | Peak |
| 2 | 1996.6997 | 31.68 | 4.13 | -42.61 | 54.57 | 47.77 | 68.20 | 20.43 | Pass | H | Peak |
| 3 | 6123.7624 | 35.82 | 8.48 | -41.11 | 47.47 | 50.66 | 68.20 | 17.54 | Pass | H | Peak |
| 4 | 9851.3234 | 37.74 | 7.25 | -40.54 | 46.15 | 50.60 | 68.20 | 17.60 | Pass | H | Peak |
| 5 | 14217.0145 | 39.92 | 9.11 | -41.71 | 48.11 | 55.43 | 68.20 | 12.77 | Pass | H | Peak |
| 6 | 17003.2669 | 42.20 | 11.61 | -43.25 | 47.93 | 58.49 | 68.20 | 9.71 | Pass | H | Peak |
| 7 | 1125.4125 | 28.03 | 2.96 | -42.77 | 53.32 | 41.54 | 68.20 | 26.66 | Pass | V | Peak |
| 8 | 2075.9076 | 31.81 | 4.43 | -42.59 | 52.03 | 45.68 | 68.20 | 22.52 | Pass | V | Peak |
| 9 | 3075.3575 | 33.23 | 5.51 | -42.08 | 50.18 | 46.84 | 68.20 | 21.36 | Pass | V | Peak |
| 10 | 6139.7140 | 35.83 | 8.55 | -41.12 | 47.71 | 50.97 | 68.20 | 17.23 | Pass | V | Peak |
| 11 | 9110.6740 | 37.68 | 6.64 | -40.72 | 47.18 | 50.78 | 68.20 | 17.42 | Pass | V | Peak |
| 12 | 17030.1020 | 42.23 | 11.51 | -43.28 | 47.85 | 58.31 | 68.20 | 9.89 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Preamp gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.6205 | 28.10 | 3.05 | -42.88 | 61.23 | 49.50 | 68.20 | 18.70 | Pass | H | Peak |
| 2 | 3075.3575 | 33.23 | 5.51 | -42.08 | 49.74 | 46.40 | 68.20 | 21.80 | Pass | H | Peak |
| 3 | 5816.2816 | 35.51 | 8.36 | -40.93 | 47.05 | 49.99 | 68.20 | 18.21 | Pass | H | Peak |
| 4 | 8963.4642 | 37.62 | 6.84 | -40.67 | 46.71 | 50.50 | 68.20 | 17.70 | Pass | H | Peak |
| 5 | 10315.9544 | 38.24 | 7.19 | -40.89 | 47.77 | 52.31 | 68.20 | 15.89 | Pass | H | Peak |
| 6 | 17530.0020 | 42.68 | 12.41 | -43.70 | 48.36 | 59.75 | 68.20 | 8.45 | Pass | H | Peak |
| 7 | 1199.1199 | 28.10 | 3.04 | -42.89 | 53.29 | 41.54 | 68.20 | 26.66 | Pass | V | Peak |
| 8 | 2070.4070 | 31.80 | 4.39 | -42.58 | 52.30 | 45.91 | 68.20 | 22.29 | Pass | V | Peak |
| 9 | 3082.5083 | 33.23 | 5.51 | -42.06 | 49.70 | 46.38 | 68.20 | 21.82 | Pass | V | Peak |
| 10 | 6180.9681 | 35.84 | 8.46 | -41.13 | 47.73 | 50.90 | 68.20 | 17.30 | Pass | V | Peak |
| 11 | 8857.6572 | 37.39 | 6.85 | -40.65 | 46.19 | 49.78 | 68.20 | 18.42 | Pass | V | Peak |
| 12 | 17545.3364 | 42.66 | 12.50 | -43.67 | 47.63 | 59.12 | 68.20 | 9.08 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1201.8702 | 28.10 | 3.04 | -42.88 | 60.74 | 49.00 | 68.20 | 19.20 | Pass | H | Peak |
| 2 | 3072.0572 | 33.23 | 5.50 | -42.08 | 50.01 | 46.66 | 68.20 | 21.54 | Pass | H | Peak |
| 3 | 5858.6359 | 35.57 | 8.37 | -40.96 | 47.18 | 50.16 | 68.20 | 18.04 | Pass | H | Peak |
| 4 | 9093.0395 | 37.68 | 6.66 | -40.71 | 48.25 | 51.88 | 68.20 | 16.32 | Pass | H | Peak |
| 5 | 10259.9840 | 38.16 | 7.26 | -40.80 | 47.56 | 52.18 | 68.20 | 16.02 | Pass | H | Peak |
| 6 | 17529.2353 | 42.68 | 12.40 | -43.69 | 48.31 | 59.70 | 68.20 | 8.50 | Pass | H | Peak |
| 7 | 1199.6700 | 28.10 | 3.04 | -42.89 | 53.24 | 41.49 | 68.20 | 26.71 | Pass | V | Peak |
| 8 | 2130.3630 | 31.88 | 4.43 | -42.55 | 51.94 | 45.70 | 68.20 | 22.50 | Pass | V | Peak |
| 9 | 3199.1199 | 33.28 | 5.75 | -42.01 | 50.53 | 47.55 | 68.20 | 20.65 | Pass | V | Peak |
| 10 | 5920.2420 | 35.67 | 8.17 | -41.02 | 47.83 | 50.65 | 68.20 | 17.55 | Pass | V | Peak |
| 11 | 9106.8405 | 37.68 | 6.65 | -40.72 | 47.35 | 50.96 | 68.20 | 17.24 | Pass | V | Peak |
| 12 | 17553.7703 | 42.66 | 12.51 | -43.67 | 47.71 | 59.21 | 68.20 | 8.99 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 3.04 | -42.88 | 61.59 | 49.84 | 68.20 | 18.36 | Pass | H | Peak |
| 2 | 3075.3575 | 33.23 | 5.51 | -42.08 | 50.21 | 46.87 | 68.20 | 21.33 | Pass | H | Peak |
| 3 | 6320.1320 | 35.86 | 8.55 | -41.15 | 48.04 | 51.30 | 68.20 | 16.90 | Pass | H | Peak |
| 4 | 9053.1702 | 37.69 | 6.74 | -40.70 | 47.00 | 50.73 | 68.20 | 17.47 | Pass | H | Peak |
| 5 | 10215.5144 | 38.10 | 7.16 | -40.74 | 47.87 | 52.39 | 68.20 | 15.81 | Pass | H | Peak |
| 6 | 17560.6707 | 42.65 | 12.47 | -43.66 | 48.53 | 59.99 | 68.20 | 8.21 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 53.40 | 41.65 | 68.20 | 26.55 | Pass | V | Peak |
| 8 | 1905.9406 | 31.08 | 4.19 | -42.66 | 53.30 | 45.91 | 68.20 | 22.29 | Pass | V | Peak |
| 9 | 3193.0693 | 33.28 | 5.71 | -42.01 | 50.53 | 47.51 | 68.20 | 20.69 | Pass | V | Peak |
| 10 | 6140.8141 | 35.83 | 8.55 | -41.12 | 48.01 | 51.27 | 68.20 | 16.93 | Pass | V | Peak |
| 11 | 9106.0737 | 37.68 | 6.65 | -40.72 | 47.21 | 50.82 | 68.20 | 17.38 | Pass | V | Peak |
| 12 | 16997.8999 | 42.20 | 11.61 | -43.26 | 48.76 | 59.31 | 68.20 | 8.89 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 62.32 | 50.59 | 68.20 | 17.61 | Pass | H | Peak |
| 2 | 2125.9626 | 31.88 | 4.45 | -42.56 | 50.24 | 44.01 | 68.20 | 24.19 | Pass | H | Peak |
| 3 | 3076.4576 | 33.23 | 5.51 | -42.08 | 50.30 | 46.96 | 68.20 | 21.24 | Pass | H | Peak |
| 4 | 6205.1705 | 35.84 | 8.36 | -41.13 | 47.57 | 50.64 | 68.20 | 17.56 | Pass | H | Peak |
| 5 | 10417.9279 | 38.39 | 7.53 | -41.06 | 47.42 | 52.28 | 68.20 | 15.92 | Pass | H | Peak |
| 6 | 16984.8657 | 42.20 | 11.52 | -43.26 | 48.09 | 58.55 | 68.20 | 9.65 | Pass | H | Peak |
| 7 | 1195.8196 | 28.10 | 3.04 | -42.89 | 52.98 | 41.23 | 68.20 | 26.97 | Pass | V | Peak |
| 8 | 2070.4070 | 31.80 | 4.39 | -42.58 | 51.72 | 45.33 | 68.20 | 22.87 | Pass | V | Peak |
| 9 | 2944.9945 | 33.11 | 5.26 | -42.15 | 49.67 | 45.89 | 68.20 | 22.31 | Pass | V | Peak |
| 10 | 6155.1155 | 35.83 | 8.57 | -41.12 | 47.28 | 50.56 | 68.20 | 17.64 | Pass | V | Peak |
| 11 | 10207.8472 | 38.09 | 7.13 | -40.73 | 47.49 | 51.98 | 68.20 | 16.22 | Pass | V | Peak |
| 12 | 17519.2680 | 42.68 | 12.34 | -43.70 | 48.06 | 59.38 | 68.20 | 8.82 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1208.4708 | 28.11 | 3.06 | -42.88 | 60.38 | 48.67 | 68.20 | 19.53 | Pass | H | Peak |
| 2 | 2191.4191 | 31.97 | 4.38 | -42.53 | 51.70 | 45.52 | 68.20 | 22.68 | Pass | H | Peak |
| 3 | 3083.0583 | 33.23 | 5.51 | -42.06 | 49.92 | 46.60 | 68.20 | 21.60 | Pass | H | Peak |
| 4 | 6076.4576 | 35.82 | 8.32 | -41.11 | 47.69 | 50.72 | 68.20 | 17.48 | Pass | H | Peak |
| 5 | 8963.4642 | 37.62 | 6.84 | -40.67 | 47.57 | 51.36 | 68.20 | 16.84 | Pass | H | Peak |
| 6 | 17549.9367 | 42.66 | 12.53 | -43.67 | 47.83 | 59.35 | 68.20 | 8.85 | Pass | H | Peak |
| 7 | 1202.9703 | 28.10 | 3.05 | -42.89 | 53.65 | 41.91 | 68.20 | 26.29 | Pass | V | Peak |
| 8 | 3185.9186 | 33.27 | 5.67 | -42.00 | 52.41 | 49.35 | 68.20 | 18.85 | Pass | V | Peak |
| 9 | 6218.3718 | 35.84 | 8.32 | -41.13 | 48.17 | 51.20 | 68.20 | 17.00 | Pass | V | Peak |
| 10 | 8147.6765 | 36.46 | 6.42 | -40.87 | 48.18 | 50.19 | 68.20 | 18.01 | Pass | V | Peak |
| 11 | 10361.9575 | 38.31 | 7.30 | -40.97 | 47.44 | 52.08 | 68.20 | 16.12 | Pass | V | Peak |
| 12 | 17526.9351 | 42.68 | 12.39 | -43.70 | 48.77 | 60.14 | 68.20 | 8.06 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 59.29 | 47.56 | 68.20 | 20.64 | Pass | H | Peak |
| 2 | 2231.0231 | 32.02 | 4.45 | -42.51 | 51.86 | 45.82 | 68.20 | 22.38 | Pass | H | Peak |
| 3 | 3263.4763 | 33.31 | 5.52 | -41.97 | 49.91 | 46.77 | 68.20 | 21.43 | Pass | H | Peak |
| 4 | 5977.4477 | 35.76 | 8.16 | -41.06 | 47.91 | 50.77 | 68.20 | 17.43 | Pass | H | Peak |
| 5 | 9182.7455 | 37.66 | 6.61 | -40.75 | 48.11 | 51.63 | 68.20 | 16.57 | Pass | H | Peak |
| 6 | 16977.9652 | 42.20 | 11.47 | -43.26 | 48.79 | 59.20 | 68.20 | 9.00 | Pass | H | Peak |
| 7 | 1196.3696 | 28.10 | 3.04 | -42.89 | 53.66 | 41.91 | 68.20 | 26.29 | Pass | V | Peak |
| 8 | 2160.0660 | 31.92 | 4.35 | -42.54 | 51.10 | 44.83 | 68.20 | 23.37 | Pass | V | Peak |
| 9 | 3194.1694 | 33.28 | 5.72 | -42.01 | 50.79 | 47.78 | 68.20 | 20.42 | Pass | V | Peak |
| 10 | 5863.5864 | 35.58 | 8.35 | -40.96 | 48.25 | 51.22 | 68.20 | 16.98 | Pass | V | Peak |
| 11 | 9002.5668 | 37.70 | 6.83 | -40.69 | 46.72 | 50.56 | 68.20 | 17.64 | Pass | V | Peak |
| 12 | 17567.5712 | 42.65 | 12.42 | -43.65 | 47.80 | 59.22 | 68.20 | 8.98 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1206.8207 | 28.11 | 3.06 | -42.89 | 60.15 | 48.43 | 68.20 | 19.77 | Pass | H | Peak |
| 2 | 2194.1694 | 31.97 | 4.38 | -42.52 | 51.41 | 45.24 | 68.20 | 22.96 | Pass | H | Peak |
| 3 | 6336.0836 | 35.87 | 8.63 | -41.16 | 47.45 | 50.79 | 68.20 | 17.41 | Pass | H | Peak |
| 4 | 9011.0007 | 37.70 | 6.81 | -40.68 | 47.12 | 50.95 | 68.20 | 17.25 | Pass | H | Peak |
| 5 | 10679.3786 | 38.54 | 7.29 | -41.16 | 48.14 | 52.81 | 68.20 | 15.39 | Pass | H | Peak |
| 6 | 17598.2399 | 42.62 | 12.24 | -43.62 | 47.71 | 58.95 | 68.20 | 9.25 | Pass | H | Peak |
| 7 | 1146.8647 | 28.05 | 3.01 | -42.81 | 54.43 | 42.68 | 68.20 | 25.52 | Pass | V | Peak |
| 8 | 2119.3619 | 31.87 | 4.47 | -42.56 | 51.20 | 44.98 | 68.20 | 23.22 | Pass | V | Peak |
| 9 | 3196.9197 | 33.28 | 5.73 | -42.00 | 50.46 | 47.47 | 68.20 | 20.73 | Pass | V | Peak |
| 10 | 8991.0661 | 37.68 | 6.83 | -40.67 | 47.03 | 50.87 | 68.20 | 17.33 | Pass | V | Peak |
| 11 | 10360.4240 | 38.30 | 7.29 | -40.96 | 47.43 | 52.06 | 68.20 | 16.14 | Pass | V | Peak |
| 12 | 17535.3690 | 42.67 | 12.44 | -43.68 | 48.01 | 59.44 | 68.20 | 8.76 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5180 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 60.31 | 48.58 | 68.20 | 19.62 | Pass | H | Peak |
| 2 | 3331.6832 | 33.33 | 5.55 | -41.91 | 50.16 | 47.13 | 68.20 | 21.07 | Pass | H | Peak |
| 3 | 6193.6194 | 35.84 | 8.41 | -41.13 | 47.55 | 50.67 | 68.20 | 17.53 | Pass | H | Peak |
| 4 | 9066.2044 | 37.69 | 6.72 | -40.71 | 47.96 | 51.66 | 68.20 | 16.54 | Pass | H | Peak |
| 5 | 10197.1131 | 38.08 | 7.10 | -40.71 | 47.26 | 51.73 | 68.20 | 16.47 | Pass | H | Peak |
| 6 | 17512.3675 | 42.69 | 12.30 | -43.71 | 48.09 | 59.37 | 68.20 | 8.83 | Pass | H | Peak |
| 7 | 1193.0693 | 28.09 | 3.04 | -42.88 | 53.07 | 41.32 | 68.20 | 26.88 | Pass | V | Peak |
| 8 | 2037.9538 | 31.75 | 4.24 | -42.59 | 51.81 | 45.21 | 68.20 | 22.99 | Pass | V | Peak |
| 9 | 2997.7998 | 33.20 | 5.32 | -42.13 | 51.83 | 48.22 | 68.20 | 19.98 | Pass | V | Peak |
| 10 | 6281.6282 | 35.86 | 8.38 | -41.15 | 47.90 | 50.99 | 68.20 | 17.21 | Pass | V | Peak |
| 11 | 10029.9687 | 37.84 | 7.43 | -40.44 | 46.90 | 51.73 | 68.20 | 16.47 | Pass | V | Peak |
| 12 | 17509.3006 | 42.69 | 12.28 | -43.71 | 47.58 | 58.84 | 68.20 | 9.36 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5200 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 3.04 | -42.88 | 59.98 | 48.23 | 68.20 | 19.97 | Pass | H | Peak |
| 2 | 2159.5160 | 31.92 | 4.35 | -42.54 | 52.04 | 45.77 | 68.20 | 22.43 | Pass | H | Peak |
| 3 | 4107.8108 | 33.95 | 6.25 | -40.81 | 48.00 | 47.39 | 68.20 | 20.81 | Pass | H | Peak |
| 4 | 8150.7434 | 36.46 | 6.41 | -40.86 | 48.42 | 50.43 | 68.20 | 17.77 | Pass | H | Peak |
| 5 | 10645.6430 | 38.53 | 7.28 | -41.16 | 47.74 | 52.39 | 68.20 | 15.81 | Pass | H | Peak |
| 6 | 17009.4006 | 42.21 | 11.59 | -43.26 | 48.54 | 59.08 | 68.20 | 9.12 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 53.29 | 41.54 | 68.20 | 26.66 | Pass | V | Peak |
| 8 | 2086.3586 | 31.82 | 4.48 | -42.57 | 50.78 | 44.51 | 68.20 | 23.69 | Pass | V | Peak |
| 9 | 5907.0407 | 35.65 | 8.20 | -41.00 | 47.89 | 50.74 | 68.20 | 17.46 | Pass | V | Peak |
| 10 | 8504.2003 | 36.61 | 6.64 | -40.56 | 47.28 | 49.97 | 68.20 | 18.23 | Pass | V | Peak |
| 11 | 10194.0463 | 38.07 | 7.10 | -40.70 | 47.39 | 51.86 | 68.20 | 16.34 | Pass | V | Peak |
| 12 | 17556.8371 | 42.65 | 12.49 | -43.66 | 47.55 | 59.03 | 68.20 | 9.17 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5240 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1202.4202 | 28.10 | 3.05 | -42.89 | 60.36 | 48.62 | 68.20 | 19.58 | Pass | H | Peak |
| 2 | 2196.9197 | 31.98 | 4.39 | -42.53 | 52.20 | 46.04 | 68.20 | 22.16 | Pass | H | Peak |
| 3 | 6339.3839 | 35.87 | 8.64 | -41.16 | 47.63 | 50.98 | 68.20 | 17.22 | Pass | H | Peak |
| 4 | 10190.2127 | 38.07 | 7.11 | -40.70 | 47.96 | 52.44 | 68.20 | 15.76 | Pass | H | Peak |
| 5 | 14874.0916 | 40.35 | 9.27 | -42.30 | 48.24 | 55.56 | 68.20 | 12.64 | Pass | H | Peak |
| 6 | 17559.1373 | 42.65 | 12.48 | -43.66 | 47.84 | 59.31 | 68.20 | 8.89 | Pass | H | Peak |
| 7 | 1199.6700 | 28.10 | 3.04 | -42.89 | 54.42 | 42.67 | 68.20 | 25.53 | Pass | V | Peak |
| 8 | 3189.7690 | 33.28 | 5.69 | -42.01 | 51.09 | 48.05 | 68.20 | 20.15 | Pass | V | Peak |
| 9 | 6090.2090 | 35.82 | 8.35 | -41.11 | 47.52 | 50.58 | 68.20 | 17.62 | Pass | V | Peak |
| 10 | 8554.0369 | 36.72 | 6.67 | -40.57 | 47.47 | 50.29 | 68.20 | 17.91 | Pass | V | Peak |
| 11 | 10451.6634 | 38.43 | 7.51 | -41.11 | 47.23 | 52.06 | 68.20 | 16.14 | Pass | V | Peak |
| 12 | 17596.7064 | 42.62 | 12.25 | -43.62 | 47.69 | 58.94 | 68.20 | 9.26 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5190 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 59.72 | 47.99 | 68.20 | 20.21 | Pass | H | Peak |
| 2 | 3081.4081 | 33.23 | 5.51 | -42.07 | 51.01 | 47.68 | 68.20 | 20.52 | Pass | H | Peak |
| 3 | 6144.1144 | 35.83 | 8.57 | -41.12 | 47.45 | 50.73 | 68.20 | 17.47 | Pass | H | Peak |
| 4 | 8422.9282 | 36.57 | 6.70 | -40.63 | 47.36 | 50.00 | 68.20 | 18.20 | Pass | H | Peak |
| 5 | 10188.6792 | 38.06 | 7.11 | -40.69 | 46.80 | 51.28 | 68.20 | 16.92 | Pass | H | Peak |
| 6 | 17569.8713 | 42.64 | 12.41 | -43.65 | 47.98 | 59.38 | 68.20 | 8.82 | Pass | H | Peak |
| 7 | 1124.8625 | 28.02 | 2.96 | -42.77 | 52.64 | 40.85 | 68.20 | 27.35 | Pass | V | Peak |
| 8 | 1988.9989 | 31.63 | 4.13 | -42.62 | 51.05 | 44.19 | 68.20 | 24.01 | Pass | V | Peak |
| 9 | 3196.9197 | 33.28 | 5.73 | -42.00 | 52.54 | 49.55 | 68.20 | 18.65 | Pass | V | Peak |
| 10 | 6183.7184 | 35.84 | 8.45 | -41.13 | 47.97 | 51.13 | 68.20 | 17.07 | Pass | V | Peak |
| 11 | 8994.1329 | 37.69 | 6.83 | -40.68 | 46.49 | 50.33 | 68.20 | 17.87 | Pass | V | Peak |
| 12 | 16998.6666 | 42.20 | 11.61 | -43.25 | 47.63 | 58.19 | 68.20 | 10.01 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5230 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1206.2706 | 28.11 | 3.05 | -42.88 | 60.59 | 48.87 | 68.20 | 19.33 | Pass | H | Peak |
| 2 | 2198.5699 | 31.98 | 4.39 | -42.53 | 52.05 | 45.89 | 68.20 | 22.31 | Pass | H | Peak |
| 3 | 3218.3718 | 33.29 | 5.67 | -42.00 | 50.61 | 47.57 | 68.20 | 20.63 | Pass | H | Peak |
| 4 | 5904.2904 | 35.65 | 8.21 | -41.01 | 47.32 | 50.17 | 68.20 | 18.03 | Pass | H | Peak |
| 5 | 11006.0004 | 38.60 | 7.70 | -41.11 | 47.49 | 52.68 | 68.20 | 15.52 | Pass | H | Peak |
| 6 | 17543.8029 | 42.66 | 12.49 | -43.67 | 47.30 | 58.78 | 68.20 | 9.42 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 3.04 | -42.88 | 53.53 | 41.78 | 68.20 | 26.42 | Pass | V | Peak |
| 8 | 2088.0088 | 31.82 | 4.49 | -42.57 | 52.07 | 45.81 | 68.20 | 22.39 | Pass | V | Peak |
| 9 | 3105.0605 | 33.24 | 5.52 | -42.05 | 49.74 | 46.45 | 68.20 | 21.75 | Pass | V | Peak |
| 10 | 6198.5699 | 35.84 | 8.39 | -41.13 | 47.75 | 50.85 | 68.20 | 17.35 | Pass | V | Peak |
| 11 | 10502.2668 | 38.50 | 7.41 | -41.18 | 47.41 | 52.14 | 68.20 | 16.06 | Pass | V | Peak |
| 12 | 17568.3379 | 42.65 | 12.42 | -43.66 | 47.64 | 59.05 | 68.20 | 9.15 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5210 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1204.0704 | 28.10 | 3.05 | -42.88 | 59.47 | 47.74 | 68.20 | 20.46 | Pass | H | Peak |
| 2 | 2059.9560 | 31.78 | 4.34 | -42.58 | 51.20 | 44.74 | 68.20 | 23.46 | Pass | H | Peak |
| 3 | 3078.1078 | 33.23 | 5.51 | -42.07 | 49.69 | 46.36 | 68.20 | 21.84 | Pass | H | Peak |
| 4 | 5661.7162 | 35.26 | 8.18 | -40.79 | 48.59 | 51.24 | 68.20 | 16.96 | Pass | H | Peak |
| 5 | 11049.7033 | 38.63 | 7.39 | -41.13 | 48.78 | 53.67 | 68.20 | 14.53 | Pass | H | Peak |
| 6 | 17559.9040 | 42.65 | 12.47 | -43.66 | 47.55 | 59.01 | 68.20 | 9.19 | Pass | H | Peak |
| 7 | 1193.0693 | 28.09 | 3.04 | -42.88 | 53.15 | 41.40 | 68.20 | 26.80 | Pass | V | Peak |
| 8 | 3191.4191 | 33.28 | 5.70 | -42.01 | 51.39 | 48.36 | 68.20 | 19.84 | Pass | V | Peak |
| 9 | 5987.8988 | 35.78 | 8.19 | -41.08 | 47.29 | 50.18 | 68.20 | 18.02 | Pass | V | Peak |
| 10 | 9073.8716 | 37.69 | 6.70 | -40.71 | 47.40 | 51.08 | 68.20 | 17.12 | Pass | V | Peak |
| 11 | 10912.4608 | 38.58 | 7.41 | -41.12 | 47.92 | 52.79 | 68.20 | 15.41 | Pass | V | Peak |
| 12 | 17517.7345 | 42.69 | 12.33 | -43.71 | 47.78 | 59.09 | 68.20 | 9.11 | Pass | V | Peak |

**Band-4**

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 59.83 | 47.90 | 68.20 | 20.30 | Pass | H | Peak |
| 2 | 2823.9824 | 32.92 | 4.40 | -42.22 | 51.18 | 46.28 | 68.20 | 21.92 | Pass | H | Peak |
| 3 | 6235.4235 | 35.85 | 7.20 | -41.14 | 47.39 | 49.30 | 68.20 | 18.90 | Pass | H | Peak |
| 4 | 8525.6684 | 36.66 | 6.67 | -40.57 | 47.81 | 50.57 | 68.20 | 17.63 | Pass | H | Peak |
| 5 | 10478.4986 | 38.47 | 7.45 | -41.14 | 46.70 | 51.48 | 68.20 | 16.72 | Pass | H | Peak |
| 6 | 17559.9040 | 42.65 | 12.47 | -43.66 | 47.48 | 58.94 | 68.20 | 9.26 | Pass | H | Peak |
| 7 | 1195.8196 | 28.10 | 2.86 | -42.89 | 54.58 | 42.65 | 68.20 | 25.55 | Pass | V | Peak |
| 8 | 2127.6128 | 31.88 | 3.70 | -42.56 | 50.71 | 43.73 | 68.20 | 24.47 | Pass | V | Peak |
| 9 | 3144.1144 | 33.26 | 4.63 | -42.04 | 50.64 | 46.49 | 68.20 | 21.71 | Pass | V | Peak |
| 10 | 6306.3806 | 35.86 | 7.42 | -41.15 | 47.13 | 49.26 | 68.20 | 18.94 | Pass | V | Peak |
| 11 | 10167.2111 | 38.03 | 7.13 | -40.66 | 48.34 | 52.84 | 68.20 | 15.36 | Pass | V | Peak |
| 12 | 17538.4359 | 42.67 | 12.46 | -43.68 | 49.34 | 60.79 | 68.20 | 7.41 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 60.18 | 48.24 | 68.20 | 19.96 | Pass | H | Peak |
| 2 | 2184.8185 | 31.96 | 3.82 | -42.53 | 50.86 | 44.11 | 68.20 | 24.09 | Pass | H | Peak |
| 3 | 3282.1782 | 33.31 | 4.83 | -41.95 | 50.56 | 46.75 | 68.20 | 21.45 | Pass | H | Peak |
| 4 | 6333.3333 | 35.87 | 7.23 | -41.16 | 48.23 | 50.17 | 68.20 | 18.03 | Pass | H | Peak |
| 5 | 9106.0737 | 37.68 | 6.65 | -40.72 | 46.81 | 50.42 | 68.20 | 17.78 | Pass | H | Peak |
| 6 | 17506.2337 | 42.70 | 12.26 | -43.72 | 47.89 | 59.13 | 68.20 | 9.07 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 2.85 | -42.88 | 54.16 | 42.22 | 68.20 | 25.98 | Pass | V | Peak |
| 8 | 2061.6062 | 31.79 | 3.65 | -42.58 | 51.68 | 44.54 | 68.20 | 23.66 | Pass | V | Peak |
| 9 | 3186.4686 | 33.27 | 4.69 | -42.01 | 49.86 | 45.81 | 68.20 | 22.39 | Pass | V | Peak |
| 10 | 6250.8251 | 35.85 | 7.28 | -41.14 | 46.99 | 48.98 | 68.20 | 19.22 | Pass | V | Peak |
| 11 | 9202.6802 | 37.66 | 6.60 | -40.75 | 47.42 | 50.93 | 68.20 | 17.27 | Pass | V | Peak |
| 12 | 17544.5696 | 42.66 | 12.50 | -43.68 | 48.34 | 59.82 | 68.20 | 8.38 | Pass | V | Peak |

| Mode: | | 802.11a(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 59.71 | 47.78 | 68.20 | 20.42 | Pass | H | Peak |
| 2 | 2082.5083 | 31.82 | 3.66 | -42.58 | 49.75 | 42.65 | 68.20 | 25.55 | Pass | H | Peak |
| 3 | 3247.5248 | 33.30 | 5.05 | -41.97 | 49.70 | 46.08 | 68.20 | 22.12 | Pass | H | Peak |
| 4 | 6170.5171 | 35.83 | 6.94 | -41.12 | 47.73 | 49.38 | 68.20 | 18.82 | Pass | H | Peak |
| 5 | 9155.9104 | 37.67 | 6.62 | -40.74 | 47.56 | 51.11 | 68.20 | 17.09 | Pass | H | Peak |
| 6 | 17618.1745 | 42.61 | 11.95 | -43.61 | 48.19 | 59.14 | 68.20 | 9.06 | Pass | H | Peak |
| 7 | 1194.1694 | 28.09 | 2.85 | -42.87 | 54.98 | 43.05 | 68.20 | 25.15 | Pass | V | Peak |
| 8 | 3179.3179 | 33.27 | 4.68 | -42.01 | 50.26 | 46.20 | 68.20 | 22.00 | Pass | V | Peak |
| 9 | 6306.3806 | 35.86 | 7.42 | -41.15 | 47.82 | 49.95 | 68.20 | 18.25 | Pass | V | Peak |
| 10 | 8416.7945 | 36.57 | 6.70 | -40.64 | 48.25 | 50.88 | 68.20 | 17.32 | Pass | V | Peak |
| 11 | 10417.1611 | 38.38 | 7.53 | -41.05 | 46.71 | 51.57 | 68.20 | 16.63 | Pass | V | Peak |
| 12 | 17005.5670 | 42.21 | 11.60 | -43.26 | 48.32 | 58.87 | 68.20 | 9.33 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 59.86 | 47.93 | 68.20 | 20.27 | Pass | H | Peak |
| 2 | 2223.3223 | 32.01 | 3.96 | -42.51 | 50.16 | 43.62 | 68.20 | 24.58 | Pass | H | Peak |
| 3 | 3107.8108 | 33.24 | 4.61 | -42.05 | 50.59 | 46.39 | 68.20 | 21.81 | Pass | H | Peak |
| 4 | 6226.6227 | 35.85 | 7.15 | -41.14 | 47.55 | 49.41 | 68.20 | 18.79 | Pass | H | Peak |
| 5 | 10390.3260 | 38.35 | 7.48 | -41.01 | 46.82 | 51.64 | 68.20 | 16.56 | Pass | H | Peak |
| 6 | 17526.1684 | 42.68 | 12.38 | -43.69 | 48.22 | 59.59 | 68.20 | 8.61 | Pass | H | Peak |
| 7 | 1195.2695 | 28.10 | 2.86 | -42.89 | 54.13 | 42.20 | 68.20 | 26.00 | Pass | V | Peak |
| 8 | 2061.6062 | 31.79 | 3.65 | -42.58 | 51.12 | 43.98 | 68.20 | 24.22 | Pass | V | Peak |
| 9 | 3174.3674 | 33.27 | 4.67 | -42.02 | 50.40 | 46.32 | 68.20 | 21.88 | Pass | V | Peak |
| 10 | 6216.1716 | 35.84 | 7.09 | -41.13 | 47.48 | 49.28 | 68.20 | 18.92 | Pass | V | Peak |
| 11 | 10225.4817 | 38.12 | 7.19 | -40.75 | 46.72 | 51.28 | 68.20 | 16.92 | Pass | V | Peak |
| 12 | 17555.3037 | 42.66 | 12.50 | -43.67 | 47.78 | 59.27 | 68.20 | 8.93 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 59.72 | 47.78 | 68.20 | 20.42 | Pass | H | Peak |
| 2 | 2194.7195 | 31.97 | 3.85 | -42.53 | 50.92 | 44.21 | 68.20 | 23.99 | Pass | H | Peak |
| 3 | 3073.7074 | 33.23 | 4.63 | -42.08 | 50.64 | 46.42 | 68.20 | 21.78 | Pass | H | Peak |
| 4 | 6221.6722 | 35.84 | 7.12 | -41.13 | 47.52 | 49.35 | 68.20 | 18.85 | Pass | H | Peak |
| 5 | 10413.3276 | 38.38 | 7.53 | -41.04 | 46.84 | 51.71 | 68.20 | 16.49 | Pass | H | Peak |
| 6 | 17566.0377 | 42.65 | 12.43 | -43.65 | 48.52 | 59.95 | 68.20 | 8.25 | Pass | H | Peak |
| 7 | 1193.6194 | 28.09 | 2.85 | -42.88 | 53.57 | 41.63 | 68.20 | 26.57 | Pass | V | Peak |
| 8 | 3177.1177 | 33.27 | 4.67 | -42.01 | 50.16 | 46.09 | 68.20 | 22.11 | Pass | V | Peak |
| 9 | 6271.1771 | 35.85 | 7.36 | -41.14 | 47.27 | 49.34 | 68.20 | 18.86 | Pass | V | Peak |
| 10 | 8448.2299 | 36.58 | 6.70 | -40.61 | 47.53 | 50.20 | 68.20 | 18.00 | Pass | V | Peak |
| 11 | 11982.0321 | 39.29 | 7.80 | -41.22 | 47.31 | 53.18 | 68.20 | 15.02 | Pass | V | Peak |
| 12 | 17552.2368 | 42.66 | 12.52 | -43.67 | 47.31 | 58.82 | 68.20 | 9.38 | Pass | V | Peak |

| Mode: | | 802.11n(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.0693 | 28.09 | 2.85 | -42.88 | 58.60 | 46.66 | 68.20 | 21.54 | Pass | H | Peak |
| 2 | 3106.7107 | 33.24 | 4.61 | -42.05 | 50.66 | 46.46 | 68.20 | 21.74 | Pass | H | Peak |
| 3 | 6086.9087 | 35.82 | 7.16 | -41.11 | 47.21 | 49.08 | 68.20 | 19.12 | Pass | H | Peak |
| 4 | 9104.5403 | 37.68 | 6.65 | -40.72 | 47.84 | 51.45 | 68.20 | 16.75 | Pass | H | Peak |
| 5 | 12376.8918 | 39.53 | 7.89 | -41.13 | 47.70 | 53.99 | 68.20 | 14.21 | Pass | H | Peak |
| 6 | 17521.5681 | 42.68 | 12.35 | -43.69 | 48.42 | 59.76 | 68.20 | 8.44 | Pass | H | Peak |
| 7 | 1201.8702 | 28.10 | 2.87 | -42.89 | 53.47 | 41.55 | 68.20 | 26.65 | Pass | V | Peak |
| 8 | 2101.2101 | 31.84 | 3.66 | -42.56 | 51.15 | 44.09 | 68.20 | 24.11 | Pass | V | Peak |
| 9 | 3237.6238 | 33.30 | 4.98 | -41.98 | 49.73 | 46.03 | 68.20 | 22.17 | Pass | V | Peak |
| 10 | 6187.0187 | 35.84 | 6.97 | -41.13 | 48.01 | 49.69 | 68.20 | 18.51 | Pass | V | Peak |
| 11 | 8307.9205 | 36.52 | 6.50 | -40.72 | 48.34 | 50.64 | 68.20 | 17.56 | Pass | V | Peak |
| 12 | 17005.5670 | 42.21 | 11.60 | -43.26 | 47.58 | 58.13 | 68.20 | 10.07 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1202.4202 | 28.10 | 2.87 | -42.89 | 58.77 | 46.85 | 68.20 | 21.35 | Pass | H | Peak |
| 2 | 2141.9142 | 31.90 | 3.72 | -42.55 | 50.14 | 43.21 | 68.20 | 24.99 | Pass | H | Peak |
| 3 | 3154.5655 | 33.26 | 4.64 | -42.03 | 49.87 | 45.74 | 68.20 | 22.46 | Pass | H | Peak |
| 4 | 6230.4730 | 35.85 | 7.17 | -41.14 | 47.07 | 48.95 | 68.20 | 19.25 | Pass | H | Peak |
| 5 | 10292.9529 | 38.21 | 7.19 | -40.85 | 46.90 | 51.45 | 68.20 | 16.75 | Pass | H | Peak |
| 6 | 17556.0704 | 42.66 | 12.49 | -43.67 | 47.63 | 59.11 | 68.20 | 9.09 | Pass | H | Peak |
| 7 | 1194.1694 | 28.09 | 2.85 | -42.87 | 53.46 | 41.53 | 68.20 | 26.67 | Pass | V | Peak |
| 8 | 2078.1078 | 31.81 | 3.66 | -42.58 | 50.49 | 43.38 | 68.20 | 24.82 | Pass | V | Peak |
| 9 | 3175.4675 | 33.27 | 4.67 | -42.01 | 50.01 | 45.94 | 68.20 | 22.26 | Pass | V | Peak |
| 10 | 6221.6722 | 35.84 | 7.12 | -41.13 | 48.30 | 50.13 | 68.20 | 18.07 | Pass | V | Peak |
| 11 | 10399.5266 | 38.36 | 7.54 | -41.03 | 47.21 | 52.08 | 68.20 | 16.12 | Pass | V | Peak |
| 12 | 17538.4359 | 42.67 | 12.46 | -43.68 | 48.33 | 59.78 | 68.20 | 8.42 | Pass | V | Peak |

| Mode: | | 802.11n(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1195.8196 | 28.10 | 2.86 | -42.89 | 59.50 | 47.57 | 68.20 | 20.63 | Pass | H | Peak |
| 2 | 2226.0726 | 32.02 | 3.97 | -42.51 | 50.48 | 43.96 | 68.20 | 24.24 | Pass | H | Peak |
| 3 | 3076.4576 | 33.23 | 4.63 | -42.07 | 49.90 | 45.69 | 68.20 | 22.51 | Pass | H | Peak |
| 4 | 6299.2299 | 35.86 | 7.47 | -41.15 | 47.36 | 49.54 | 68.20 | 18.66 | Pass | H | Peak |
| 5 | 10058.3372 | 37.88 | 7.49 | -40.49 | 46.92 | 51.80 | 68.20 | 16.40 | Pass | H | Peak |
| 6 | 17014.0009 | 42.21 | 11.57 | -43.26 | 47.76 | 58.28 | 68.20 | 9.92 | Pass | H | Peak |
| 7 | 1194.1694 | 28.09 | 2.85 | -42.87 | 53.73 | 41.80 | 68.20 | 26.40 | Pass | V | Peak |
| 8 | 2070.4070 | 31.80 | 3.65 | -42.58 | 51.41 | 44.28 | 68.20 | 23.92 | Pass | V | Peak |
| 9 | 2958.1958 | 33.13 | 4.58 | -42.14 | 50.00 | 45.57 | 68.20 | 22.63 | Pass | V | Peak |
| 10 | 6314.6315 | 35.86 | 7.36 | -41.15 | 47.36 | 49.43 | 68.20 | 18.77 | Pass | V | Peak |
| 11 | 10411.0274 | 38.38 | 7.53 | -41.04 | 47.20 | 52.07 | 68.20 | 16.13 | Pass | V | Peak |
| 12 | 17542.2695 | 42.67 | 12.48 | -43.68 | 47.60 | 59.07 | 68.20 | 9.13 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5745 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1193.6194 | 28.09 | 2.85 | -42.88 | 58.46 | 46.52 | 68.20 | 21.68 | Pass | H | Peak |
| 2 | 2031.9032 | 31.74 | 3.65 | -42.59 | 50.51 | 43.31 | 68.20 | 24.89 | Pass | H | Peak |
| 3 | 3069.8570 | 33.23 | 4.63 | -42.08 | 50.14 | 45.92 | 68.20 | 22.28 | Pass | H | Peak |
| 4 | 7673.8449 | 36.53 | 6.31 | -40.85 | 48.03 | 50.02 | 68.20 | 18.18 | Pass | H | Peak |
| 5 | 10134.2423 | 37.99 | 7.15 | -40.61 | 48.52 | 53.05 | 68.20 | 15.15 | Pass | H | Peak |
| 6 | 17502.4002 | 42.70 | 12.23 | -43.71 | 47.61 | 58.83 | 68.20 | 9.37 | Pass | H | Peak |
| 7 | 1198.0198 | 28.10 | 2.86 | -42.88 | 53.83 | 41.91 | 68.20 | 26.29 | Pass | V | Peak |
| 8 | 3196.3696 | 33.28 | 4.70 | -42.00 | 51.31 | 47.29 | 68.20 | 20.91 | Pass | V | Peak |
| 9 | 6475.2475 | 35.90 | 7.35 | -41.19 | 47.15 | 49.21 | 68.20 | 18.99 | Pass | V | Peak |
| 10 | 8753.3836 | 37.16 | 6.94 | -40.62 | 46.98 | 50.46 | 68.20 | 17.74 | Pass | V | Peak |
| 11 | 11173.9116 | 38.70 | 7.60 | -41.20 | 48.16 | 53.26 | 68.20 | 14.94 | Pass | V | Peak |
| 12 | 17546.8698 | 42.66 | 12.51 | -43.67 | 48.06 | 59.56 | 68.20 | 8.64 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5785 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1197.4697 | 28.10 | 2.86 | -42.89 | 59.01 | 47.08 | 68.20 | 21.12 | Pass | H | Peak |
| 2 | 2193.0693 | 31.97 | 3.84 | -42.52 | 51.17 | 44.46 | 68.20 | 23.74 | Pass | H | Peak |
| 3 | 3180.9681 | 33.27 | 4.68 | -42.01 | 50.58 | 46.52 | 68.20 | 21.68 | Pass | H | Peak |
| 4 | 6219.4719 | 35.84 | 7.11 | -41.13 | 47.67 | 49.49 | 68.20 | 18.71 | Pass | H | Peak |
| 5 | 10253.0835 | 38.15 | 7.27 | -40.79 | 47.65 | 52.28 | 68.20 | 15.92 | Pass | H | Peak |
| 6 | 17510.0673 | 42.69 | 12.28 | -43.71 | 48.26 | 59.52 | 68.20 | 8.68 | Pass | H | Peak |
| 7 | 1191.4191 | 28.09 | 2.84 | -42.87 | 53.79 | 41.85 | 68.20 | 26.35 | Pass | V | Peak |
| 8 | 3198.5699 | 33.28 | 4.71 | -42.00 | 52.67 | 48.66 | 68.20 | 19.54 | Pass | V | Peak |
| 9 | 6292.0792 | 35.86 | 7.44 | -41.15 | 47.44 | 49.59 | 68.20 | 18.61 | Pass | V | Peak |
| 10 | 8893.6929 | 37.47 | 6.90 | -40.66 | 46.04 | 49.75 | 68.20 | 18.45 | Pass | V | Peak |
| 11 | 11187.7125 | 38.71 | 7.58 | -41.21 | 47.56 | 52.64 | 68.20 | 15.56 | Pass | V | Peak |
| 12 | 16601.5068 | 42.28 | 10.87 | -43.57 | 47.44 | 57.02 | 68.20 | 11.18 | Pass | V | Peak |

| Mode: | | 802.11ac(HT20) Transmitting | | | Channel: | | | | 5825 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1199.6700 | 28.10 | 2.87 | -42.89 | 59.21 | 47.29 | 68.20 | 20.91 | Pass | H | Peak |
| 2 | 1991.7492 | 31.65 | 3.65 | -42.62 | 58.06 | 50.74 | 68.20 | 17.46 | Pass | H | Peak |
| 3 | 3139.7140 | 33.26 | 4.63 | -42.04 | 51.29 | 47.14 | 68.20 | 21.06 | Pass | H | Peak |
| 4 | 6238.1738 | 35.85 | 7.21 | -41.14 | 48.32 | 50.24 | 68.20 | 17.96 | Pass | H | Peak |
| 5 | 10355.8237 | 38.30 | 7.26 | -40.96 | 47.92 | 52.52 | 68.20 | 15.68 | Pass | H | Peak |
| 6 | 17027.0351 | 42.23 | 11.52 | -43.28 | 48.40 | 58.87 | 68.20 | 9.33 | Pass | H | Peak |
| 7 | 1195.8196 | 28.10 | 2.86 | -42.89 | 53.11 | 41.18 | 68.20 | 27.02 | Pass | V | Peak |
| 8 | 2107.2607 | 31.85 | 3.67 | -42.56 | 52.47 | 45.43 | 68.20 | 22.77 | Pass | V | Peak |
| 9 | 3189.7690 | 33.28 | 4.69 | -42.01 | 51.34 | 47.30 | 68.20 | 20.90 | Pass | V | Peak |
| 10 | 6322.8823 | 35.86 | 7.31 | -41.15 | 47.51 | 49.53 | 68.20 | 18.67 | Pass | V | Peak |
| 11 | 9107.6072 | 37.68 | 6.65 | -40.72 | 48.20 | 51.81 | 68.20 | 16.39 | Pass | V | Peak |
| 12 | 16980.2654 | 42.20 | 11.49 | -43.26 | 48.03 | 58.46 | 68.20 | 9.74 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5755 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1199.6700 | 28.10 | 2.87 | -42.89 | 59.17 | 47.25 | 68.20 | 20.95 | Pass | H | Peak |
| 2 | 2122.1122 | 31.87 | 3.69 | -42.55 | 51.74 | 44.75 | 68.20 | 23.45 | Pass | H | Peak |
| 3 | 6310.2310 | 35.86 | 7.40 | -41.15 | 47.78 | 49.89 | 68.20 | 18.31 | Pass | H | Peak |
| 4 | 8425.2283 | 36.57 | 6.70 | -40.63 | 47.48 | 50.12 | 68.20 | 18.08 | Pass | H | Peak |
| 5 | 10591.2061 | 38.52 | 7.27 | -41.17 | 47.47 | 52.09 | 68.20 | 16.11 | Pass | H | Peak |
| 6 | 17512.3675 | 42.69 | 12.30 | -43.71 | 48.45 | 59.73 | 68.20 | 8.47 | Pass | H | Peak |
| 7 | 1200.7701 | 28.10 | 2.87 | -42.89 | 52.87 | 40.95 | 68.20 | 27.25 | Pass | V | Peak |
| 8 | 2114.9615 | 31.86 | 3.68 | -42.56 | 52.47 | 45.45 | 68.20 | 22.75 | Pass | V | Peak |
| 9 | 3197.4697 | 33.28 | 4.71 | -42.01 | 51.79 | 47.77 | 68.20 | 20.43 | Pass | V | Peak |
| 10 | 6489.5490 | 35.90 | 7.47 | -41.19 | 47.37 | 49.55 | 68.20 | 18.65 | Pass | V | Peak |
| 11 | 10292.9529 | 38.21 | 7.19 | -40.85 | 47.46 | 52.01 | 68.20 | 16.19 | Pass | V | Peak |
| 12 | 17523.1015 | 42.68 | 12.36 | -43.69 | 47.37 | 58.72 | 68.20 | 9.48 | Pass | V | Peak |

| Mode: | | 802.11ac(HT40) Transmitting | | | Channel: | | | | 5795 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1200.2200 | 28.10 | 2.87 | -42.89 | 59.20 | 47.28 | 68.20 | 20.92 | Pass | H | Peak |
| 2 | 2162.8163 | 31.93 | 3.76 | -42.54 | 50.16 | 43.31 | 68.20 | 24.89 | Pass | H | Peak |
| 3 | 3182.0682 | 33.27 | 4.68 | -42.01 | 49.95 | 45.89 | 68.20 | 22.31 | Pass | H | Peak |
| 4 | 6316.8317 | 35.86 | 7.35 | -41.15 | 47.84 | 49.90 | 68.20 | 18.30 | Pass | H | Peak |
| 5 | 9143.6429 | 37.67 | 6.62 | -40.73 | 47.49 | 51.05 | 68.20 | 17.15 | Pass | H | Peak |
| 6 | 17554.5370 | 42.66 | 12.50 | -43.67 | 47.74 | 59.23 | 68.20 | 8.97 | Pass | H | Peak |
| 7 | 1196.3696 | 28.10 | 2.86 | -42.89 | 53.64 | 41.71 | 68.20 | 26.49 | Pass | V | Peak |
| 8 | 2048.9549 | 31.77 | 3.65 | -42.59 | 52.85 | 45.68 | 68.20 | 22.52 | Pass | V | Peak |
| 9 | 3189.2189 | 33.28 | 4.69 | -42.01 | 50.78 | 46.74 | 68.20 | 21.46 | Pass | V | Peak |
| 10 | 6305.2805 | 35.86 | 7.43 | -41.15 | 48.13 | 50.27 | 68.20 | 17.93 | Pass | V | Peak |
| 11 | 10429.4286 | 38.40 | 7.52 | -41.07 | 47.19 | 52.04 | 68.20 | 16.16 | Pass | V | Peak |
| 12 | 17543.8029 | 42.66 | 12.49 | -43.67 | 48.16 | 59.64 | 68.20 | 8.56 | Pass | V | Peak |

| Mode: | | 802.11ac(HT80) Transmitting | | | Channel: | | | | 5775 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Cable loss [dB] | Pream gain [dB] | Reading [dBμV] | Level [dBμV/m] | Limit [dBμV/m] | Magin [dB] | Result | Polarity | Remark |
| 1 | 1198.0198 | 28.10 | 2.86 | -42.88 | 59.86 | 47.94 | 68.20 | 20.26 | Pass | H | Peak |
| 2 | 2026.4026 | 31.74 | 3.65 | -42.60 | 50.79 | 43.58 | 68.20 | 24.62 | Pass | H | Peak |
| 3 | 3373.4873 | 33.35 | 4.80 | -41.89 | 50.48 | 46.74 | 68.20 | 21.46 | Pass | H | Peak |
| 4 | 6239.2739 | 35.85 | 7.22 | -41.14 | 47.36 | 49.29 | 68.20 | 18.91 | Pass | H | Peak |
| 5 | 9016.3678 | 37.70 | 6.80 | -40.69 | 47.04 | 50.85 | 68.20 | 17.35 | Pass | H | Peak |
| 6 | 17524.6350 | 42.68 | 12.37 | -43.69 | 48.72 | 60.08 | 68.20 | 8.12 | Pass | H | Peak |
| 7 | 1197.4697 | 28.10 | 2.86 | -42.89 | 53.08 | 41.15 | 68.20 | 27.05 | Pass | V | Peak |
| 8 | 3196.3696 | 33.28 | 4.70 | -42.00 | 52.84 | 48.82 | 68.20 | 19.38 | Pass | V | Peak |
| 9 | 6316.8317 | 35.86 | 7.35 | -41.15 | 47.52 | 49.58 | 68.20 | 18.62 | Pass | V | Peak |
| 10 | 9082.3055 | 37.68 | 6.69 | -40.71 | 47.79 | 51.45 | 68.20 | 16.75 | Pass | V | Peak |
| 11 | 10527.5685 | 38.51 | 7.36 | -41.18 | 48.15 | 52.84 | 68.20 | 15.36 | Pass | V | Peak |
| 12 | 17566.8045 | 42.65 | 12.43 | -43.66 | 47.93 | 59.35 | 68.20 | 8.85 | Pass | V | Peak |

Note:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

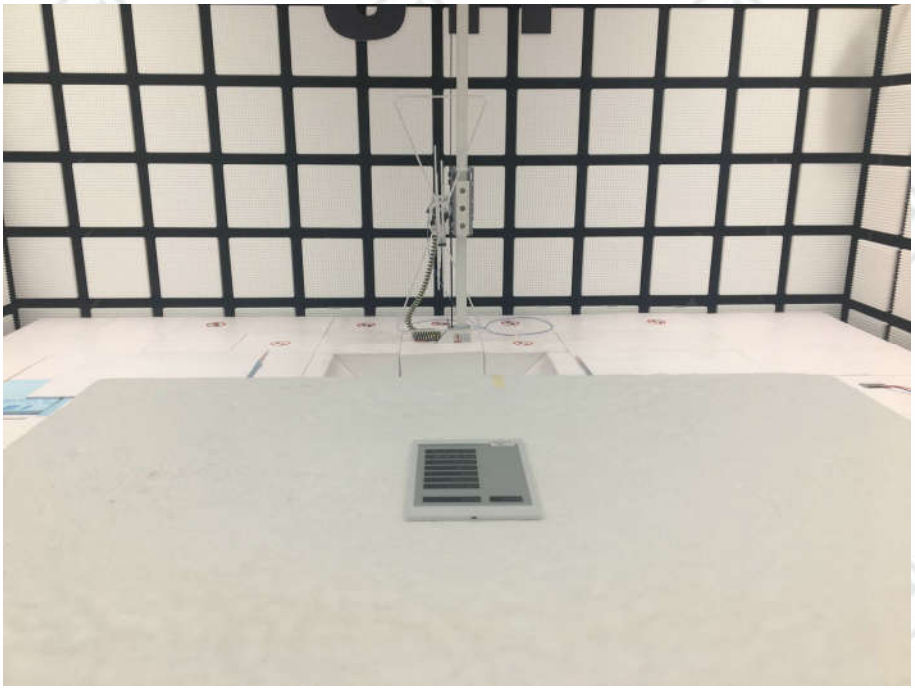
2) Through Pre-scan transmitting mode with all kind of modulation and data rate, find the MCS0 is the worst case of 802.11a; MCS0 is the worst case of 802.11n(20M)(40M); MCS0 is the worst case of 802.11ac(20M)(40M)(80M); and then Only the worst case is recorded in the report.

3) Scan from 9kHz to 40GHz, the disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

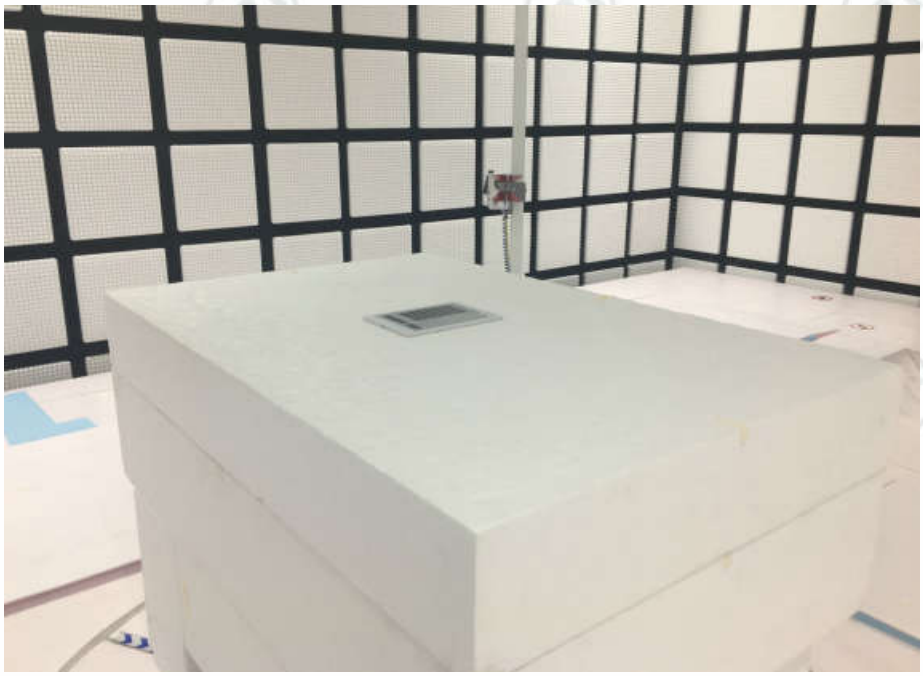
# PHOTOGRAPHS OF TEST SETUP

Test model No.: RM102

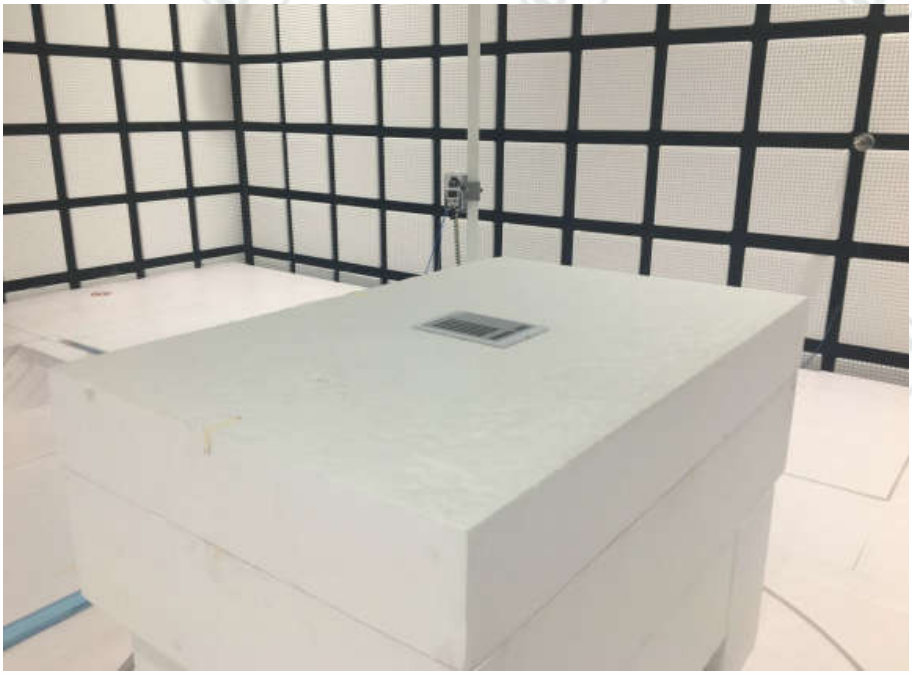
**Radiated spurious emission Test Setup-1(Below 30MHz)**



**Radiated spurious emission Test Setup-2(30MHz-1GHz)**



**Radiated spurious emission Test Setup-3(Above 1GHz)**



**Radiated spurious emission Test Setup-4(Above 18GHz)**


**Conducted Emissions Test Setup**

# PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32L00004801for EUT external and internal photos.

*** End of Report ***