

# TEST REPORT

**Reference No.** ..... : WTS15S0832655-2E  
**FCC ID**..... : 2AFOYL553AN  
**Applicant**..... : Le Shi Zhi Xin Electronic Technology (Tian jin) Limited  
**Address** ..... : 201-427 2F B1 District, Anime building, No.126 Anime Middle Road,  
Eco-city Tianjin, China  
**Manufacturer** ..... : TPV Technology(Qingdao) Co.,Ltd  
**Address** ..... : NO.99 Huoju Road, High-tech Industrial Development Zone, Qingdao  
City, Shandong Province, China(PRC)  
**Product Name** ..... : Letv Super TV  
**Model No.** ..... : L553AN, L55\*\*\*(\* can be A to Z(a-z), 0 to 9, "+", "-", ".", or blank, series  
model name is same to each other except for model designation for  
market issue.)  
**Brand** ..... : Letv  
**Standards**..... : FCC CFR47 Part 15 C Section 15.407:2014  
**Date of Receipt sample**..... : Aug. 27, 2015  
**Date of Test**..... : Aug. 28, 2015 – Sep. 14, 2015  
**Date of Issue** ..... : Sep.15, 2015  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

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## 2 Test Summary

| Test Items                                                        | Test Requirement                    | Result |
|-------------------------------------------------------------------|-------------------------------------|--------|
| Conducted Emissions                                               | 15.207(a)                           | PASS   |
| Radiated Emissions                                                | 15.407(a)<br>15.205(a)<br>15.209(a) | PASS   |
| Duty Cycle                                                        | KDB 789033                          | --     |
| 6dB Bandwidth                                                     | 15.407(a)                           | PASS   |
| 26 dB Emission Bandwidth<br>& 99% Occupied Bandwidth              | 15.407(a)                           | PASS   |
| Maximum Conducted Output Power                                    | 15.407(a)                           | PASS   |
| Power Spectral Density                                            | 15.407(a)                           | PASS   |
| Restricted bands around<br>fundamental frequency                  | 15.407(a)                           | PASS   |
| Antenna Requirement                                               | 15.203                              | PASS   |
| Maximum Permissible Exposure<br>(Exposure of Humans to RF Fields) | 1.1307(b)(1)                        | PASS   |

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## 4 General Information

### 4.1 General Description of E.U.T.

|                              |                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                | Letv Super TV                                                                                                                                                                                                                                                                                                                   |
| Model No.:                   | L553AN, L55***(* can be A to Z(a-z), 0 to 9, "+", "-", "." or blank, series model name is same to each other except for model designation for market issue.)                                                                                                                                                                    |
| Model Description:           | Only the model names are different, The L553AN is tested model.                                                                                                                                                                                                                                                                 |
| Operation Frequency:         | IEEE 802.11b/g/n(HT20):2412MHz ~ 2462MHz<br>IEEE 802.11n(HT40):2422MHz~2452MHz<br>IEEE 802.11a/ n(HT20/40)/ac(HT20/40/80): 5150MHz to 5250MHz<br>IEEE 802.11a/ n(HT20/40)/ac(HT20/40/80): 5725MHz to 5850MHz<br>BT: 2402-2480MHz<br>SRD: 2402-2480MHz                                                                           |
| The Lowest Oscillator:       | 12MHz                                                                                                                                                                                                                                                                                                                           |
| Antenna Gain:                | 2.4GHz WIFI:3.2 dBi<br>5.2GHz WIFI:2.8 dBi<br>5.8GHz WIFI:4.5 dBi<br>2.4GHz BT:3.1 dBi<br>2.4GHz SRD:3.1 dBi                                                                                                                                                                                                                    |
| Type of modulation:          | IEEE 802.11b DSSS(CCK/QPSK/BPSK)<br>IEEE 802.11g OFDM(BPSK/QPSK/16QAM/64QAM)<br>IEEE 802.11n OFDM(BPSK/QPSK/16QAM/64QAM)<br>IEEE for 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM)<br>IEEE for 802.11n : OFDM(BPSK/QPSK/16QAM/64QAM)<br>IEEE for 802.11ac : OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)<br>BT: GFSK,PI/4-DQPSK,8DPSK<br>SRD: GFSK |
| Number of transmitter chains | WIFI:2*2 (MIMO)<br>BT: 1<br>SRD: 1                                                                                                                                                                                                                                                                                              |

The device supports MIMO 2\*2, and the MIMO works with STBC(Space-Time Block Coding).The antenna is omnidirectional, does not support any directional gain in any modes.

MIMO rate, antennas use two different streams, from this side, if RX side need to decode MIMO, data between the two stream should be corelated.

TX power for MIMO rate, the wifi chip has a power/rate table that controls TX power from chipout, it's preset in nvram, FW don't need to calculate it again when MIMO rate is fixed. Of course the real radiation power is also related to antenna efficient.

## 4.2 Details of E.U.T.

Technical Data: AC 120V~60Hz, 155W

## 4.3 Channel List

| Band I (5.15-5.25GHz) |                | Band IV (5.725-5.85GHz) |                |
|-----------------------|----------------|-------------------------|----------------|
| channel               | Frequency(MHz) | channel                 | Frequency(MHz) |
| 36                    | 5180           | 149                     | 5745           |
| 38                    | 5190           | 151                     | 5755           |
| 40                    | 5200           | 153                     | 5765           |
| 42                    | 5210           | 155                     | 5775           |
| 44                    | 5220           | 157                     | 5785           |
| 46                    | 5230           | 159                     | 5795           |
| 48                    | 5240           | 161                     | 5805           |
|                       |                | 165                     | 5825           |

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(HT20):

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 36      | 5180           | 149     | 5745           |
| 40      | 5200           | 157     | 5785           |
| 48      | 5240           | 165     | 5825           |

For 802.11 n(HT40)/ac(HT40):

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 38      | 5190           | 151     | 5755           |
| 46      | 5230           | 159     | 5795           |

For 802.11 ac(HT80):

| channel | Frequency(MHz) | channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 42      | 5210           | 155     | 5775           |

#### 4.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A-1, July 12, 2012.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

## 5 Equipment Used during Test

### 5.1 Equipments List

| Conducted Emissions Test Site 1#                              |                            |                                  |              |                 |                       |                      |
|---------------------------------------------------------------|----------------------------|----------------------------------|--------------|-----------------|-----------------------|----------------------|
| Item                                                          | Equipment                  | Manufacturer                     | Model No.    | Serial No.      | Last Calibration Date | Calibration Due Date |
| 1.                                                            | EMI Test Receiver          | R&S                              | ESCI         | 100947          | Sep.15,2014           | Sep.14,2015          |
| 2.                                                            | LISN                       | R&S                              | ENV216       | 101215          | Sep.15,2014           | Sep.14,2015          |
| 3.                                                            | Cable                      | Top                              | TYPE16(3.5M) | -               | Sep.15,2014           | Sep.14,2015          |
| Conducted Emissions Test Site 2#                              |                            |                                  |              |                 |                       |                      |
| Item                                                          | Equipment                  | Manufacturer                     | Model No.    | Serial No.      | Last Calibration Date | Calibration Due Date |
| 1.                                                            | EMI Test Receiver          | R&S                              | ESCI         | 101155          | Sep.15,2014           | Sep.14,2015          |
| 2.                                                            | LISN                       | SCHWARZBECK                      | NSLK 8128    | 8128-289        | Sep.15,2014           | Sep.14,2015          |
| 3.                                                            | Limiter                    | York                             | MTS-IMP-136  | 261115-001-0024 | Sep.15,2014           | Sep.14,2015          |
| 4.                                                            | Cable                      | LARGE                            | RF300        | -               | Sep.15,2014           | Sep.14,2015          |
| 3m Semi-anechoic Chamber for Radiation Emissions Test site 1# |                            |                                  |              |                 |                       |                      |
| Item                                                          | Equipment                  | Manufacturer                     | Model No.    | Serial No.      | Last Calibration Date | Calibration Due Date |
| 1                                                             | EMC Analyzer               | Agilent                          | E7405A       | MY45114943      | Sep.15,2014           | Sep.14,2015          |
| 2                                                             | Active Loop Antenna        | Beijing Dazhi                    | ZN30900A     | -               | Sep.15,2014           | Sep.14,2015          |
| 3                                                             | Trilog Broadband Antenna   | SCHWARZBECK                      | VULB9163     | 336             | Apr.19,2015           | Apr.18,2016          |
| 4                                                             | Coaxial Cable (below 1GHz) | Top                              | TYPE16(13M)  | -               | Sep.15,2014           | Sep.14,2015          |
| 5                                                             | Broad-band Horn Antenna    | SCHWARZBECK                      | BBHA 9120 D  | 667             | Apr.19,2015           | Apr.18,2016          |
| 6                                                             | Broad-band Horn Antenna    | SCHWARZBECK                      | BBHA 9170    | 335             | Apr.19,2015           | Apr.18,2016          |
| 7                                                             | Broadband Preamplifier     | COMPLIANCE DIRECTION             | PAP-1G18     | 2004            | Mar.17,2015           | Mar.16,2016          |
| 8                                                             | Coaxial Cable (above 1GHz) | Top                              | 1GHz-25GHz   | EW02014-7       | Apr.10,2015           | Apr.09,2016          |
| 3m Semi-anechoic Chamber for Radiation Emissions Test site 2# |                            |                                  |              |                 |                       |                      |
| Item                                                          | Equipment                  | Manufacturer                     | Model No.    | Serial No       | Last Calibration Date | Calibration Due Date |
| 1                                                             | Test Receiver              | R&S                              | ESCI         | 101296          | Sep.15,2014           | Sep.14,2015          |
| 2                                                             | Trilog Broadband Antenna   | SCHWARZBECK                      | VULB9160     | 9160-3325       | Sep.15,2014           | Sep.14,2015          |
| 3                                                             | Amplifier                  | Compliance pirection systems inc | PAP-0203     | 22024           | Sep.15,2014           | Sep.14,2015          |
| 4                                                             | Cable                      | HUBER+SUHNER                     | CBL2         | 525178          | Sep.15,2014           | Sep.14,2015          |
| RF Conducted Testing                                          |                            |                                  |              |                 |                       |                      |

| Item | Equipment                    | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
|------|------------------------------|--------------|-----------|------------|-----------------------|----------------------|
| 1.   | EMC Analyzer (9k~26.5GHz)    | Agilent      | E7405A    | MY45114943 | Sep.15,2014           | Sep.14,2015          |
| 2.   | Spectrum Analyzer (9k~6GHz)  | R&S          | FSL6      | 100959     | Sep.15,2014           | Sep.14,2015          |
| 3.   | Signal Analyzer (9k~26.5GHz) | Agilent      | N9010A    | MY50520207 | Sep.15,2014           | Sep.14,2015          |

## 5.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |
|-----------|--------------|-----------|------------|
| /         | /            | /         | /          |

## 5.3 Measurement Uncertainty

| Parameter                         | Uncertainty                           |
|-----------------------------------|---------------------------------------|
| Radio Frequency                   | $\pm 1 \times 10^{-6}$                |
| RF Power                          | $\pm 1.0$ dB                          |
| RF Power Density                  | $\pm 2.2$ dB                          |
| Radiated Spurious Emissions test  | $\pm 5.03$ dB (30M~1000MHz)           |
|                                   | $\pm 5.47$ dB (1000M~25000MHz)        |
| Conducted Spurious Emissions test | $\pm 3.64$ dB (AC mains 150KHz~30MHz) |

## 5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

## 6 Conducted Emission

|                   |                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC CFR 47 Part 15 Section 15.207                                                                                      |
| Test Method:      | ANSI C63.4:2003                                                                                                        |
| Test Result:      | PASS                                                                                                                   |
| Frequency Range:  | 150kHz to 30MHz                                                                                                        |
| Class/Severity:   | Class B                                                                                                                |
| Limit:            | 66-56 dB $\mu$ V between 0.15MHz & 0.5MHz<br>56 dB $\mu$ V between 0.5MHz & 5MHz<br>60 dB $\mu$ V between 5MHz & 30MHz |
| Detector:         | Peak for pre-scan (9kHz Resolution Bandwidth)                                                                          |

### 6.1 E.U.T. Operation

Operating Environment :

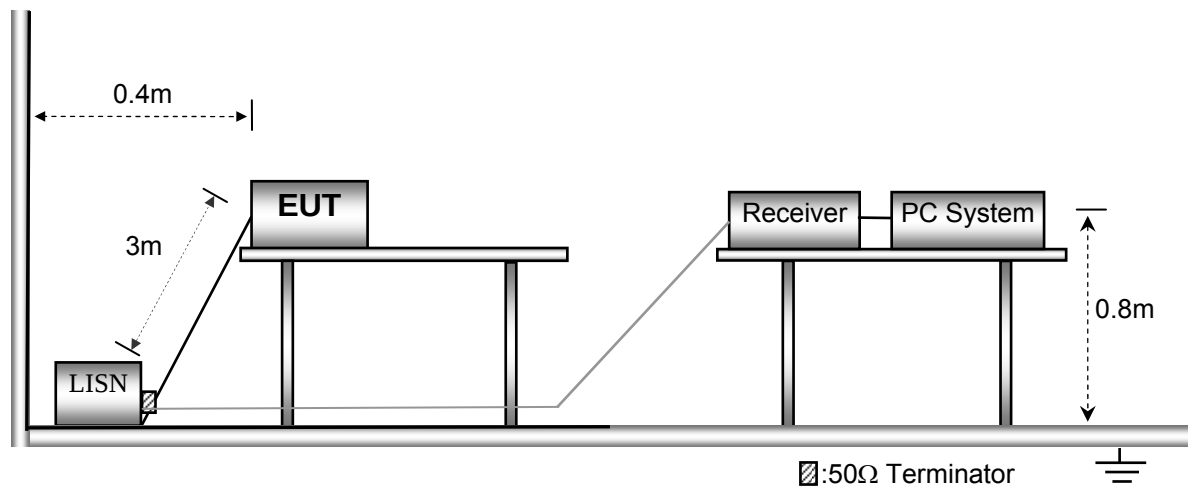
|                       |           |
|-----------------------|-----------|
| Temperature:          | 21.5 °C   |
| Humidity:             | 51.9 % RH |
| Atmospheric Pressure: | 101.2kPa  |

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

### 6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4:2003.



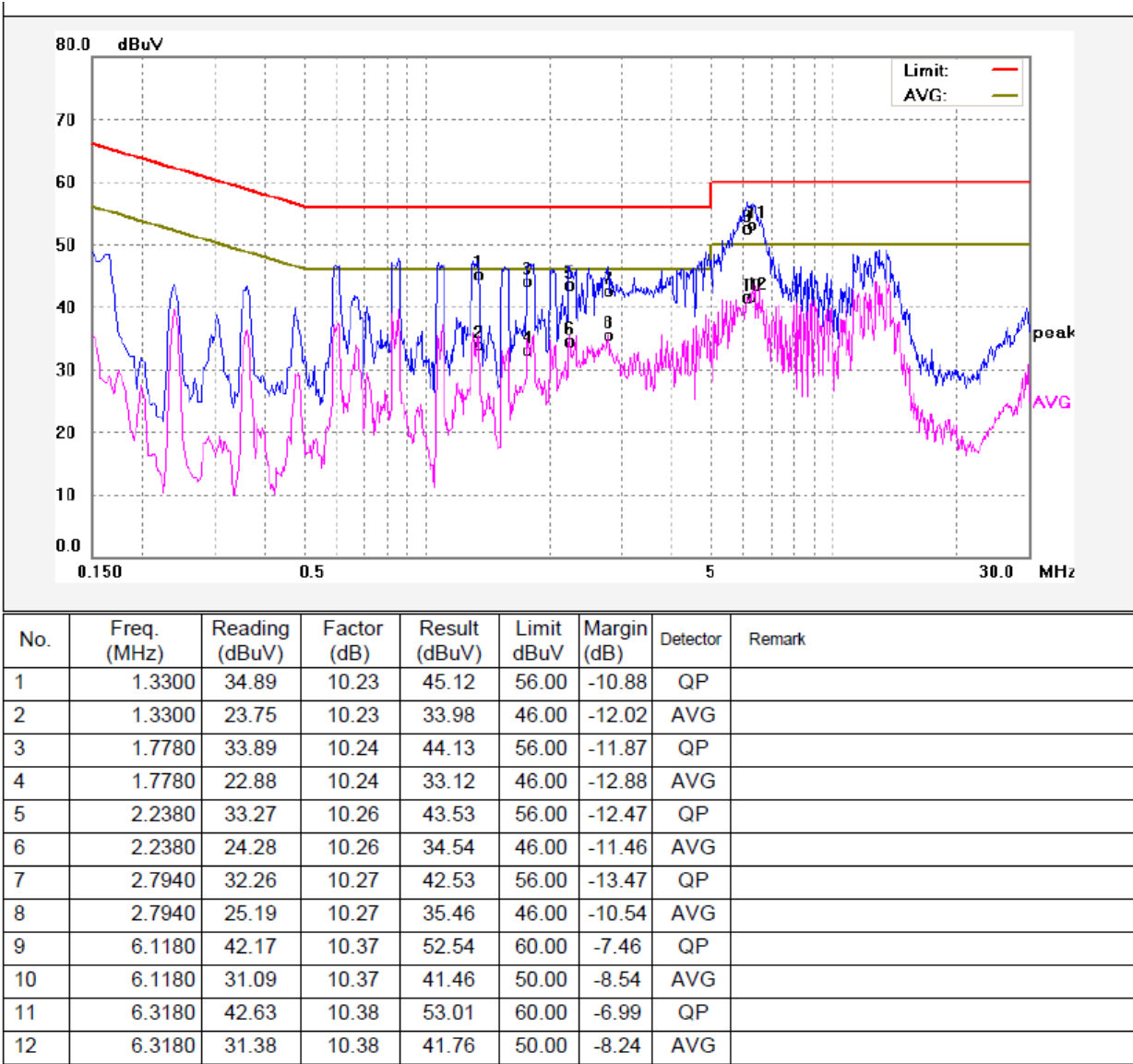
### 6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

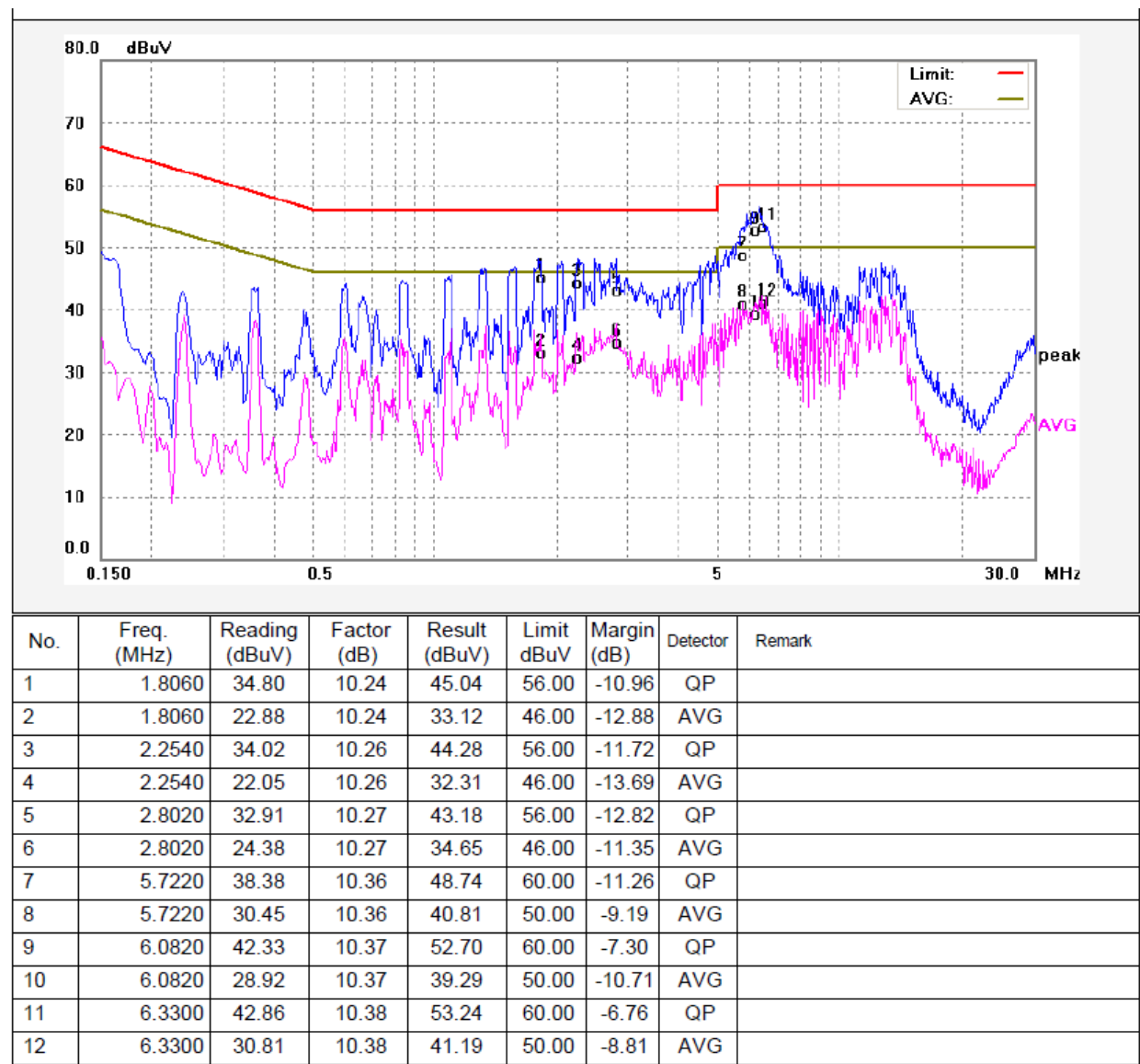
6.4 Conducted Emission Test Result

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

Live line:



Neutral line:



## 7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.4:2003

Test Result: PASS

Measurement Distance: 3m

Limit:

| Frequency<br>(MHz) | Field Strength        |                 | Field Strength Limit at 3m Measurement Dist |                                       |
|--------------------|-----------------------|-----------------|---------------------------------------------|---------------------------------------|
|                    | uV/m                  | Distance<br>(m) | uV/m                                        | dBuV/m                                |
| 0.009 ~ 0.490      | $2400/F(\text{kHz})$  | 300             | $10000 * 2400/F(\text{kHz})$                | $20\log^{(2400/F(\text{kHz}))} + 80$  |
| 0.490 ~ 1.705      | $24000/F(\text{kHz})$ | 30              | $100 * 24000/F(\text{kHz})$                 | $20\log^{(24000/F(\text{kHz}))} + 40$ |
| 1.705 ~ 30         | 30                    | 30              | $100 * 30$                                  | $20\log^{(30)} + 40$                  |
| 30 ~ 88            | 100                   | 3               | 100                                         | $20\log^{(100)}$                      |
| 88 ~ 216           | 150                   | 3               | 150                                         | $20\log^{(150)}$                      |
| 216 ~ 960          | 200                   | 3               | 200                                         | $20\log^{(200)}$                      |
| Above 960          | 500                   | 3               | 500                                         | $20\log^{(500)}$                      |

### 7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

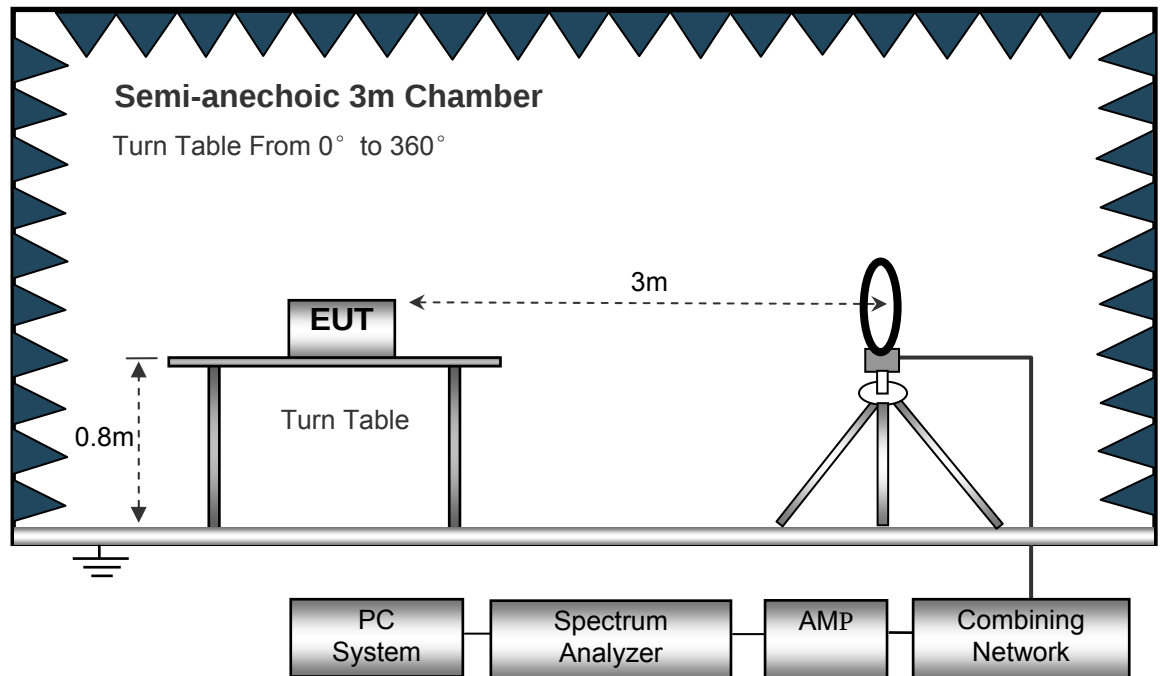
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

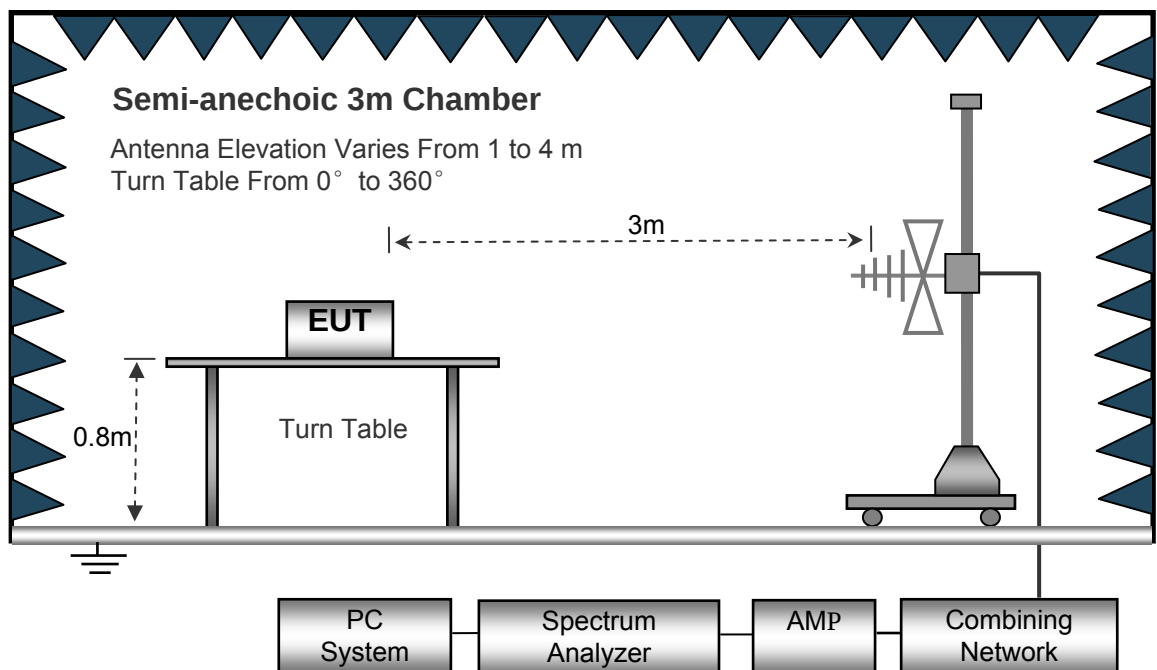
## 7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4: 2003.

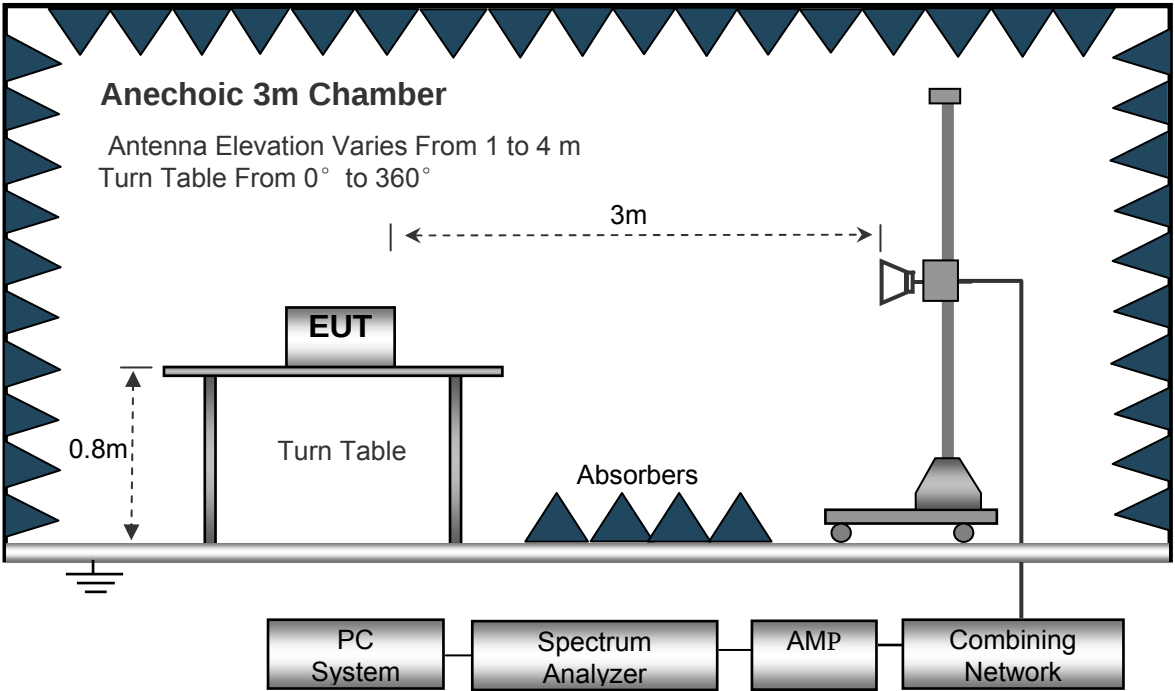
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

- Sweep Speed ..... Auto
- IF Bandwidth.....10kHz
- Video Bandwidth.....10kHz
- Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

- Sweep Speed ..... Auto
- Detector .....PK
- Resolution Bandwidth.....100kHz
- Video Bandwidth.....300kHz

Above 1GHz

- Sweep Speed ..... Auto
- Detector .....PK
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....3MHz
- Detector .....Ave.
- Resolution Bandwidth.....1MHz
- Video Bandwidth.....10Hz

## 7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high -pass filter is used during radiated emissions above 1GHz measurement.

## 7.5 Corrected Amplitude & Margin Calculation

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

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

## 7.6 Summary of Test Results

### Test Frequency: Below 30MHz

The measurements were more than 20 dB below the limit and not reported.

### Test Frequency : 30MHz ~ 18GHz

| Frequency                             | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|---------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                       |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                 | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11a band I Low Channel 5180MHz    |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                | 41.07            | QP          | 281              | 1.3        | H     | -11.62           | 29.45               | 46.00                   | -16.55 |
| 223.46                                | 36.26            | QP          | 240              | 1.6        | V     | -11.62           | 24.64               | 46.00                   | -21.36 |
| 4534.24                               | 50.49            | PK          | 353              | 1.9        | H     | -2.03            | 48.46               | 74.00                   | -25.54 |
| 4534.24                               | 46.32            | Ave         | 353              | 1.9        | H     | -2.03            | 44.29               | 54.00                   | -9.71  |
| 10360.00                              | 41.08            | PK          | 141              | 1.3        | H     | 5.33             | 46.41               | 74.00                   | -27.59 |
| 10360.00                              | 36.85            | Ave         | 141              | 1.3        | H     | 5.33             | 42.18               | 54.00                   | -11.82 |
| 5366.48                               | 42.51            | PK          | 202              | 1.9        | H     | -1.04            | 41.47               | 74.00                   | -32.53 |
| 5366.48                               | 37.56            | Ave         | 202              | 1.9        | H     | -1.04            | 36.52               | 54.00                   | -17.48 |
| 802.11a band I middle channel 5200MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                | 40.93            | QP          | 21               | 1.3        | H     | -11.62           | 29.31               | 46.00                   | -16.69 |
| 223.46                                | 36.16            | QP          | 242              | 1.3        | V     | -11.62           | 24.54               | 46.00                   | -21.46 |
| 4521.80                               | 51.70            | PK          | 183              | 1.7        | H     | -1.94            | 49.76               | 74.00                   | -24.24 |
| 4521.80                               | 47.21            | Ave         | 183              | 1.7        | H     | -1.94            | 45.27               | 54.00                   | -8.73  |
| 10400.00                              | 39.86            | PK          | 241              | 1.1        | H     | 5.21             | 45.07               | 74.00                   | -28.93 |
| 10400.00                              | 38.28            | Ave         | 241              | 1.1        | H     | 5.21             | 43.49               | 54.00                   | -10.51 |
| 5371.36                               | 46.84            | PK          | 219              | 2.0        | H     | -1.06            | 45.78               | 74.00                   | -28.22 |
| 5371.36                               | 39.25            | Ave         | 219              | 2.0        | H     | -1.06            | 38.19               | 54.00                   | -15.81 |

| Frequency                           | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|-------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                     |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                               | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11a band I High channel 5240MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                              | 42.39            | QP          | 260              | 1.7        | H     | -11.62           | 30.77               | 46.00                   | -15.23 |
| 223.46                              | 36.99            | QP          | 280              | 1.4        | V     | -11.62           | 25.37               | 46.00                   | -20.63 |
| 4504.19                             | 52.22            | PK          | 359              | 1.4        | H     | -2.24            | 49.98               | 74.00                   | -24.02 |
| 4504.19                             | 47.53            | Ave         | 359              | 1.4        | H     | -2.24            | 45.29               | 54.00                   | -8.71  |
| 10480.00                            | 42.08            | PK          | 114              | 1.8        | H     | 5.14             | 47.22               | 74.00                   | -26.78 |
| 10480.00                            | 35.49            | Ave         | 114              | 1.8        | H     | 5.14             | 40.63               | 54.00                   | -13.37 |
| 5373.61                             | 46.57            | PK          | 358              | 1.3        | H     | -1.08            | 45.49               | 74.00                   | -28.51 |
| 5373.61                             | 37.90            | Ave         | 358              | 1.3        | H     | -1.08            | 36.82               | 54.00                   | -17.18 |
| 802.11a band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                              | 43.09            | QP          | 144              | 1.1        | H     | -11.62           | 31.47               | 46.00                   | -14.53 |
| 223.46                              | 37.58            | QP          | 135              | 1.1        | V     | -11.62           | 25.96               | 46.00                   | -20.04 |
| 4516.77                             | 51.31            | PK          | 118              | 1.8        | H     | -2.06            | 49.25               | 74.00                   | -24.75 |
| 4516.77                             | 48.26            | Ave         | 118              | 1.8        | H     | -2.06            | 46.20               | 54.00                   | -7.80  |
| 11490.00                            | 41.81            | PK          | 227              | 1.3        | H     | 5.93             | 47.74               | 74.00                   | -26.26 |
| 11490.00                            | 35.46            | Ave         | 227              | 1.3        | H     | 5.93             | 41.39               | 54.00                   | -12.61 |
| 5361.85                             | 46.56            | PK          | 27               | 2.0        | H     | -1.15            | 45.41               | 74.00                   | -28.59 |
| 5361.85                             | 37.22            | Ave         | 27               | 2.0        | H     | -1.15            | 36.07               | 54.00                   | -17.93 |

| Frequency                              | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|----------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                        |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                  | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11a band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                 | 42.04            | QP          | 24               | 1.2        | H     | -11.62           | 30.42               | 46.00                   | -15.58 |
| 223.46                                 | 38.92            | QP          | 138              | 1.4        | V     | -11.62           | 27.30               | 46.00                   | -18.70 |
| 4501.29                                | 50.23            | PK          | 62               | 1.2        | H     | -2.03            | 48.20               | 74.00                   | -25.80 |
| 4501.29                                | 47.40            | Ave         | 62               | 1.2        | H     | -2.03            | 45.37               | 54.00                   | -8.63  |
| 11570.00                               | 42.21            | PK          | 193              | 1.8        | H     | 5.81             | 48.02               | 74.00                   | -25.98 |
| 11570.00                               | 37.51            | Ave         | 193              | 1.8        | H     | 5.81             | 43.32               | 54.00                   | -10.68 |
| 5370.17                                | 46.27            | PK          | 348              | 1.2        | H     | -1.22            | 45.05               | 74.00                   | -28.95 |
| 5370.17                                | 38.28            | Ave         | 348              | 1.2        | H     | -1.22            | 37.06               | 54.00                   | -16.94 |
| 802.11a band IV High channel 5825MHz   |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                 | 42.91            | QP          | 191              | 1.9        | H     | -11.62           | 31.29               | 46.00                   | -14.71 |
| 223.46                                 | 37.99            | QP          | 213              | 1.7        | V     | -11.62           | 26.37               | 46.00                   | -19.63 |
| 4527.80                                | 50.01            | PK          | 209              | 1.5        | H     | -1.84            | 48.17               | 74.00                   | -25.83 |
| 4527.80                                | 46.20            | Ave         | 209              | 1.5        | H     | -1.84            | 44.36               | 54.00                   | -9.64  |
| 11650.00                               | 40.26            | PK          | 359              | 1.4        | H     | 5.84             | 46.10               | 74.00                   | -27.90 |
| 11650.00                               | 38.03            | Ave         | 359              | 1.4        | H     | 5.84             | 43.87               | 54.00                   | -10.13 |
| 5354.91                                | 45.19            | PK          | 41               | 1.0        | H     | -1.30            | 43.89               | 74.00                   | -30.11 |
| 5354.91                                | 39.26            | Ave         | 41               | 1.0        | H     | -1.30            | 37.96               | 54.00                   | -16.04 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                       | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11n(HT20) band I low Channel 5180MHz    |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                      | 44.37            | QP          | 244              | 1.2        | H     | -11.62           | 32.75               | 46.00                   | -13.25 |
| 223.46                                      | 39.47            | QP          | 6                | 1.0        | V     | -11.62           | 27.85               | 46.00                   | -18.15 |
| 4536.27                                     | 51.10            | PK          | 213              | 1.3        | H     | -2.14            | 48.96               | 74.00                   | -25.04 |
| 4536.27                                     | 46.63            | Ave         | 213              | 1.3        | H     | -2.14            | 44.49               | 54.00                   | -9.51  |
| 10360.00                                    | 42.46            | PK          | 210              | 1.4        | H     | 5.33             | 47.79               | 74.00                   | -26.21 |
| 10360.00                                    | 36.54            | Ave         | 210              | 1.4        | H     | 5.33             | 41.87               | 54.00                   | -12.13 |
| 5385.11                                     | 45.08            | PK          | 208              | 1.1        | H     | -1.26            | 43.82               | 74.00                   | -30.18 |
| 5385.11                                     | 39.15            | Ave         | 208              | 1.1        | H     | -1.26            | 37.89               | 54.00                   | -16.11 |
| 802.11n(HT20) band I middle channel 5200MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                      | 45.19            | QP          | 90               | 1.1        | H     | -11.62           | 33.57               | 46.00                   | -12.43 |
| 223.46                                      | 40.91            | QP          | 183              | 1.9        | V     | -11.62           | 29.29               | 46.00                   | -16.71 |
| 4517.44                                     | 51.58            | PK          | 296              | 1.1        | H     | -2.12            | 49.46               | 74.00                   | -24.54 |
| 4517.44                                     | 46.93            | Ave         | 296              | 1.1        | H     | -2.12            | 44.81               | 54.00                   | -9.19  |
| 10400.00                                    | 40.37            | PK          | 203              | 1.2        | H     | 5.21             | 45.58               | 74.00                   | -28.42 |
| 10400.00                                    | 35.60            | Ave         | 203              | 1.2        | H     | 5.21             | 40.81               | 54.00                   | -13.19 |
| 5383.44                                     | 45.27            | PK          | 262              | 1.7        | H     | -1.07            | 44.20               | 74.00                   | -29.80 |
| 5383.44                                     | 39.04            | Ave         | 262              | 1.7        | H     | -1.07            | 37.97               | 54.00                   | -16.03 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11n(HT20) band I High channel 5240MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                    | 44.95            | QP          | 125              | 1.4        | H     | -11.62           | 33.33               | 46.00                   | -12.67 |
| 223.46                                    | 40.93            | QP          | 140              | 1.7        | V     | -11.62           | 29.31               | 46.00                   | -16.69 |
| 4523.57                                   | 52.58            | PK          | 62               | 1.5        | H     | -1.96            | 50.62               | 74.00                   | -23.38 |
| 4523.57                                   | 48.15            | Ave         | 62               | 1.5        | H     | -1.96            | 46.19               | 54.00                   | -7.81  |
| 10480.00                                  | 41.49            | PK          | 7                | 1.3        | H     | 5.14             | 46.63               | 74.00                   | -27.37 |
| 10480.00                                  | 37.45            | Ave         | 7                | 1.3        | H     | 5.14             | 42.59               | 54.00                   | -11.41 |
| 5355.17                                   | 46.75            | PK          | 283              | 1.0        | H     | -1.10            | 45.65               | 74.00                   | -28.35 |
| 5355.17                                   | 39.84            | Ave         | 283              | 1.0        | H     | -1.10            | 38.74               | 54.00                   | -15.26 |
| 802.11n(HT20) band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                    | 44.69            | QP          | 128              | 1.5        | H     | -11.62           | 33.07               | 46.00                   | -12.93 |
| 223.46                                    | 40.00            | QP          | 201              | 1.6        | V     | -11.62           | 28.38               | 46.00                   | -17.62 |
| 4525.93                                   | 50.18            | PK          | 218              | 1.4        | H     | -1.85            | 48.33               | 74.00                   | -25.67 |
| 4525.93                                   | 45.36            | Ave         | 218              | 1.4        | H     | -1.85            | 43.51               | 54.00                   | -10.49 |
| 11490.00                                  | 39.38            | PK          | 226              | 1.1        | H     | 5.93             | 45.31               | 74.00                   | -28.69 |
| 11490.00                                  | 34.46            | Ave         | 226              | 1.1        | H     | 5.93             | 40.39               | 54.00                   | -13.61 |
| 5359.05                                   | 45.61            | PK          | 20               | 1.3        | H     | -1.01            | 44.60               | 74.00                   | -29.40 |
| 5359.05                                   | 37.83            | Ave         | 20               | 1.3        | H     | -1.01            | 36.82               | 54.00                   | -17.18 |

| Frequency                                    | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                              |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                        | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11n(HT20) band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                       | 44.95            | QP          | 245              | 1.5        | H     | -11.62           | 33.33               | 46.00                   | -12.67 |
| 223.46                                       | 40.35            | QP          | 288              | 1.1        | V     | -11.62           | 28.73               | 46.00                   | -17.27 |
| 4515.20                                      | 50.63            | PK          | 23               | 1.9        | H     | -1.89            | 48.74               | 74.00                   | -25.26 |
| 4515.20                                      | 44.43            | Ave         | 23               | 1.9        | H     | -1.89            | 42.54               | 54.00                   | -11.46 |
| 11570.00                                     | 40.62            | PK          | 309              | 2.0        | H     | 5.81             | 46.43               | 74.00                   | -27.57 |
| 11570.00                                     | 35.95            | Ave         | 309              | 2.0        | H     | 5.81             | 41.76               | 54.00                   | -12.24 |
| 5380.50                                      | 46.06            | PK          | 201              | 2.0        | H     | -1.04            | 45.02               | 74.00                   | -28.98 |
| 5380.50                                      | 37.87            | Ave         | 201              | 2.0        | H     | -1.04            | 36.83               | 54.00                   | -17.17 |
| 802.11n(HT20) band IV High channel 5825MHz   |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                       | 44.03            | QP          | 153              | 1.4        | H     | -11.62           | 32.41               | 46.00                   | -13.59 |
| 223.46                                       | 40.12            | QP          | 11               | 1.9        | V     | -11.62           | 28.50               | 46.00                   | -17.50 |
| 4525.29                                      | 49.91            | PK          | 128              | 1.5        | H     | -1.97            | 47.94               | 74.00                   | -26.06 |
| 4525.29                                      | 43.52            | Ave         | 128              | 1.5        | H     | -1.97            | 41.55               | 54.00                   | -12.45 |
| 11650.00                                     | 40.21            | PK          | 65               | 1.5        | H     | 5.84             | 46.05               | 74.00                   | -27.95 |
| 11650.00                                     | 36.61            | Ave         | 65               | 1.5        | H     | 5.84             | 42.45               | 54.00                   | -11.55 |
| 5379.95                                      | 45.85            | PK          | 310              | 1.2        | H     | -1.12            | 44.73               | 74.00                   | -29.27 |
| 5379.95                                      | 38.28            | Ave         | 310              | 1.2        | H     | -1.12            | 37.16               | 54.00                   | -16.84 |

| Frequency                                    | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                              |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                        | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT20) band I low Channel 5180MHz    |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                       | 43.28            | QP          | 226              | 1.4        | H     | -11.62           | 31.66               | 46.00                   | -14.34 |
| 223.46                                       | 40.03            | QP          | 56               | 1.8        | V     | -11.62           | 28.41               | 46.00                   | -17.59 |
| 4520.26                                      | 48.51            | PK          | 100              | 1.4        | H     | -1.86            | 46.65               | 74.00                   | -27.35 |
| 4520.26                                      | 42.14            | Ave         | 100              | 1.4        | H     | -1.86            | 40.28               | 54.00                   | -13.72 |
| 10360.00                                     | 38.45            | PK          | 280              | 1.3        | H     | 5.33             | 43.78               | 74.00                   | -30.22 |
| 10360.00                                     | 34.88            | Ave         | 280              | 1.3        | H     | 5.33             | 40.21               | 54.00                   | -13.79 |
| 5361.95                                      | 46.12            | PK          | 163              | 1.6        | H     | -1.06            | 45.06               | 74.00                   | -28.94 |
| 5361.95                                      | 39.04            | Ave         | 163              | 1.6        | H     | -1.06            | 37.98               | 54.00                   | -16.02 |
| 802.11ac(HT20) band I middle channel 5200MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                       | 44.21            | QP          | 59               | 1.3        | H     | -11.62           | 32.59               | 46.00                   | -13.41 |
| 223.46                                       | 40.63            | QP          | 305              | 1.4        | V     | -11.62           | 29.01               | 46.00                   | -16.99 |
| 4532.38                                      | 48.16            | PK          | 269              | 1.5        | H     | -1.82            | 46.34               | 74.00                   | -27.66 |
| 4532.38                                      | 41.94            | Ave         | 269              | 1.5        | H     | -1.82            | 40.12               | 54.00                   | -13.88 |
| 10400.00                                     | 41.24            | PK          | 277              | 1.8        | H     | 5.21             | 46.45               | 74.00                   | -27.55 |
| 10400.00                                     | 37.38            | Ave         | 277              | 1.8        | H     | 5.21             | 42.59               | 54.00                   | -11.41 |
| 5359.73                                      | 45.71            | PK          | 250              | 1.3        | H     | -1.09            | 44.62               | 74.00                   | -29.38 |
| 5359.73                                      | 39.93            | Ave         | 250              | 1.3        | H     | -1.09            | 38.84               | 54.00                   | -15.16 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT20) band I High channel 5240MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 44.84            | QP          | 243              | 1.9        | H     | -11.62           | 33.22               | 46.00                   | -12.78 |
| 223.46                                     | 40.68            | QP          | 269              | 1.3        | V     | -11.62           | 29.06               | 46.00                   | -16.94 |
| 4512.24                                    | 47.25            | PK          | 285              | 1.2        | H     | -1.81            | 45.44               | 74.00                   | -28.56 |
| 4512.24                                    | 42.47            | Ave         | 285              | 1.2        | H     | -1.81            | 40.66               | 54.00                   | -13.34 |
| 10480.00                                   | 40.23            | PK          | 236              | 1.6        | H     | 5.14             | 45.37               | 74.00                   | -28.63 |
| 10480.00                                   | 37.67            | Ave         | 236              | 1.6        | H     | 5.14             | 42.81               | 54.00                   | -11.19 |
| 5360.41                                    | 45.09            | PK          | 335              | 1.9        | H     | -1.04            | 44.05               | 74.00                   | -29.95 |
| 5360.41                                    | 37.05            | Ave         | 335              | 1.9        | H     | -1.04            | 36.01               | 54.00                   | -17.99 |
| 802.11ac(HT20) band IV low Channel 5745MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 45.48            | QP          | 338              | 1.5        | H     | -11.62           | 33.86               | 46.00                   | -12.14 |
| 223.46                                     | 39.35            | QP          | 70               | 1.5        | V     | -11.62           | 27.73               | 46.00                   | -18.27 |
| 4506.71                                    | 45.29            | PK          | 252              | 1.4        | H     | -1.92            | 43.37               | 74.00                   | -30.63 |
| 4506.71                                    | 40.48            | Ave         | 252              | 1.4        | H     | -1.92            | 38.56               | 54.00                   | -15.44 |
| 11490.00                                   | 38.79            | PK          | 174              | 1.8        | H     | 5.93             | 44.72               | 74.00                   | -29.28 |
| 11490.00                                   | 34.82            | Ave         | 174              | 1.8        | H     | 5.93             | 40.75               | 54.00                   | -13.25 |
| 5388.02                                    | 46.49            | PK          | 98               | 1.7        | H     | -1.03            | 45.46               | 74.00                   | -28.54 |
| 5388.02                                    | 37.21            | Ave         | 98               | 1.7        | H     | -1.03            | 36.18               | 54.00                   | -17.82 |

| Frequency                                     | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|-----------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                               |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                         | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT20) band IV middle channel 5785MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                        | 44.71            | QP          | 295              | 1.2        | H     | -11.62           | 33.09               | 46.00                   | -12.91 |
| 223.46                                        | 38.90            | QP          | 230              | 1.2        | V     | -11.62           | 27.28               | 46.00                   | -18.72 |
| 4531.05                                       | 44.46            | PK          | 326              | 1.4        | H     | -1.97            | 42.49               | 74.00                   | -31.51 |
| 4531.05                                       | 41.01            | Ave         | 326              | 1.4        | H     | -1.97            | 39.04               | 54.00                   | -14.96 |
| 11570.00                                      | 40.27            | PK          | 161              | 1.5        | H     | 5.81             | 46.08               | 74.00                   | -27.92 |
| 11570.00                                      | 37.35            | Ave         | 161              | 1.5        | H     | 5.81             | 43.16               | 54.00                   | -10.84 |
| 5388.51                                       | 46.53            | PK          | 178              | 1.7        | H     | -1.05            | 45.48               | 74.00                   | -28.52 |
| 5388.51                                       | 39.34            | Ave         | 178              | 1.7        | H     | -1.05            | 38.29               | 54.00                   | -15.71 |
| 802.11ac(HT20) band IV High channel 5825MHz   |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                        | 44.53            | QP          | 111              | 1.9        | H     | -11.62           | 32.91               | 46.00                   | -13.09 |
| 223.46                                        | 38.19            | QP          | 189              | 1.7        | V     | -11.62           | 26.57               | 46.00                   | -19.43 |
| 4534.48                                       | 44.03            | PK          | 266              | 1.6        | H     | -1.88            | 42.15               | 74.00                   | -31.85 |
| 4534.48                                       | 40.10            | Ave         | 266              | 1.6        | H     | -1.88            | 38.22               | 54.00                   | -15.78 |
| 11650.00                                      | 40.57            | PK          | 189              | 1.9        | H     | 5.84             | 46.41               | 74.00                   | -27.59 |
| 11650.00                                      | 36.79            | Ave         | 189              | 1.9        | H     | 5.84             | 42.63               | 54.00                   | -11.37 |
| 5361.05                                       | 46.28            | PK          | 246              | 1.3        | H     | -1.06            | 45.22               | 74.00                   | -28.78 |
| 5361.05                                       | 39.14            | Ave         | 246              | 1.3        | H     | -1.06            | 38.08               | 54.00                   | -15.92 |

| Frequency                                 | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|-------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                           |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                     | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11n(HT40) band I low Channel 5190MHz  |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                    | 45.16            | QP          | 58               | 1.4        | H     | -11.62           | 33.54               | 46.00                   | -12.46 |
| 223.46                                    | 39.26            | QP          | 81               | 1.2        | V     | -11.62           | 27.64               | 46.00                   | -18.36 |
| 4518.49                                   | 42.64            | PK          | 24               | 1.2        | H     | -1.89            | 40.75               | 74.00                   | -33.25 |
| 4518.49                                   | 38.35            | Ave         | 24               | 1.2        | H     | -1.89            | 36.46               | 54.00                   | -17.54 |
| 10380.00                                  | 38.64            | PK          | 301              | 1.7        | H     | 5.26             | 43.90               | 74.00                   | -30.10 |
| 10380.00                                  | 35.43            | Ave         | 301              | 1.7        | H     | 5.26             | 40.69               | 54.00                   | -13.31 |
| 5359.87                                   | 46.96            | PK          | 182              | 2.0        | H     | -1.03            | 45.93               | 74.00                   | -28.07 |
| 5359.87                                   | 38.87            | Ave         | 182              | 2.0        | H     | -1.03            | 37.84               | 54.00                   | -16.16 |
| 802.11n(HT40) band I High channel 5230MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                    | 44.93            | QP          | 193              | 1.3        | H     | -11.62           | 33.31               | 46.00                   | -12.69 |
| 223.46                                    | 38.26            | QP          | 318              | 1.6        | V     | -11.62           | 26.64               | 46.00                   | -19.36 |
| 4508.90                                   | 43.48            | PK          | 240              | 2.0        | H     | -1.94            | 41.54               | 74.00                   | -32.46 |
| 4508.90                                   | 37.62            | Ave         | 240              | 2.0        | H     | -1.94            | 35.68               | 54.00                   | -18.32 |
| 10460.00                                  | 42.00            | PK          | 220              | 1.6        | H     | 5.28             | 47.28               | 74.00                   | -26.72 |
| 10480.00                                  | 37.76            | Ave         | 220              | 1.6        | H     | 5.28             | 43.04               | 54.00                   | -10.96 |
| 5367.18                                   | 46.84            | PK          | 301              | 1.9        | H     | -1.05            | 45.79               | 74.00                   | -28.21 |
| 5367.18                                   | 39.21            | Ave         | 301              | 1.9        | H     | -1.05            | 38.16               | 54.00                   | -15.84 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11n(HT40) band IV low Channel 5755MHz  |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 44.17            | QP          | 153              | 1.1        | H     | -11.62           | 32.55               | 74.00                   | -41.45 |
| 223.46                                     | 37.26            | QP          | 190              | 1.5        | V     | -11.62           | 25.64               | 74.00                   | -48.36 |
| 4519.86                                    | 41.24            | PK          | 339              | 1.1        | H     | -1.96            | 39.28               | 74.00                   | -34.72 |
| 4519.86                                    | 36.53            | Ave         | 339              | 1.1        | H     | -1.96            | 34.57               | 54.00                   | -19.43 |
| 11510.00                                   | 38.49            | PK          | 244              | 1.2        | H     | 5.88             | 44.37               | 74.00                   | -29.63 |
| 11510.00                                   | 34.93            | Ave         | 244              | 1.2        | H     | 5.88             | 40.81               | 54.00                   | -13.19 |
| 5359.92                                    | 46.79            | PK          | 296              | 1.9        | H     | -1.01            | 45.78               | 74.00                   | -28.22 |
| 5359.92                                    | 38.38            | Ave         | 296              | 1.9        | H     | -1.01            | 37.37               | 54.00                   | -16.63 |
| 802.11n(HT40) band IV High channel 5795MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 43.24            | QP          | 198              | 1.5        | H     | -11.62           | 31.62               | 74.00                   | -42.38 |
| 223.46                                     | 38.03            | QP          | 255              | 1.2        | V     | -11.62           | 26.41               | 74.00                   | -47.59 |
| 4534.11                                    | 40.32            | PK          | 5                | 1.3        | H     | -1.92            | 38.40               | 74.00                   | -35.60 |
| 4534.11                                    | 36.18            | Ave         | 5                | 1.3        | H     | -1.92            | 34.26               | 54.00                   | -19.74 |
| 11590.00                                   | 40.32            | PK          | 198              | 1.0        | H     | 5.63             | 45.95               | 74.00                   | -28.05 |
| 11590.00                                   | 36.19            | Ave         | 198              | 1.0        | H     | 5.63             | 41.82               | 54.00                   | -12.18 |
| 5367.96                                    | 45.22            | PK          | 246              | 1.3        | H     | -1.04            | 44.18               | 74.00                   | -29.82 |
| 5367.96                                    | 37.72            | Ave         | 246              | 1.3        | H     | -1.04            | 36.68               | 54.00                   | -17.32 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT40) band I low Channel 5190MHz  |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 43.13            | QP          | 131              | 2.0        | H     | -11.62           | 31.51               | 74.00                   | -42.49 |
| 223.46                                     | 39.02            | QP          | 58               | 1.9        | V     | -11.62           | 27.40               | 74.00                   | -46.60 |
| 4519.74                                    | 38.27            | PK          | 130              | 1.4        | H     | -1.91            | 36.36               | 74.00                   | -37.64 |
| 4519.74                                    | 33.50            | Ave         | 130              | 1.4        | H     | -1.91            | 31.59               | 54.00                   | -22.41 |
| 10380.00                                   | 38.48            | PK          | 250              | 2.0        | H     | 5.26             | 43.74               | 74.00                   | -30.26 |
| 10380.00                                   | 34.99            | Ave         | 250              | 2.0        | H     | 5.26             | 40.25               | 54.00                   | -13.75 |
| 5360.73                                    | 45.55            | PK          | 288              | 1.6        | H     | -1.03            | 44.52               | 74.00                   | -29.48 |
| 5360.73                                    | 37.34            | Ave         | 288              | 1.6        | H     | -1.03            | 36.31               | 54.00                   | -17.69 |
| 802.11ac(HT40) band I High channel 5230MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 42.45            | QP          | 153              | 1.9        | H     | -11.62           | 30.83               | 74.00                   | -43.17 |
| 223.46                                     | 39.46            | QP          | 220              | 1.6        | V     | -11.62           | 27.84               | 74.00                   | -46.16 |
| 4510.01                                    | 38.40            | PK          | 336              | 1.1        | H     | -1.93            | 36.47               | 74.00                   | -37.53 |
| 4510.01                                    | 34.03            | Ave         | 336              | 1.1        | H     | -1.93            | 32.10               | 54.00                   | -21.90 |
| 10460.00                                   | 41.77            | PK          | 90               | 1.6        | H     | 5.28             | 47.05               | 74.00                   | -26.95 |
| 10480.00                                   | 36.29            | Ave         | 90               | 1.6        | H     | 5.28             | 41.57               | 54.00                   | -12.43 |
| 5366.04                                    | 45.47            | PK          | 29               | 1.4        | H     | -1.04            | 44.43               | 74.00                   | -29.57 |
| 5366.04                                    | 38.64            | Ave         | 29               | 1.4        | H     | -1.04            | 37.60               | 54.00                   | -16.40 |

| Frequency                                   | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|---------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                             |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                       | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT40) band IV low Channel 5755MHz  |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                      | 41.76            | QP          | 323              | 1.1        | H     | -11.62           | 30.14               | 74.00                   | -43.86 |
| 223.46                                      | 39.51            | QP          | 89               | 1.3        | V     | -11.62           | 27.89               | 74.00                   | -46.11 |
| 4539.93                                     | 37.06            | PK          | 194              | 1.5        | H     | -1.92            | 35.14               | 74.00                   | -38.86 |
| 4539.93                                     | 32.49            | Ave         | 194              | 1.5        | H     | -1.92            | 30.57               | 54.00                   | -23.43 |
| 11510.00                                    | 39.50            | PK          | 30               | 1.9        | H     | 5.88             | 45.38               | 74.00                   | -28.62 |
| 11510.00                                    | 34.81            | Ave         | 30               | 1.9        | H     | 5.88             | 40.69               | 54.00                   | -13.31 |
| 5352.93                                     | 45.41            | PK          | 19               | 1.1        | H     | -1.07            | 44.34               | 74.00                   | -29.66 |
| 5352.93                                     | 37.49            | Ave         | 19               | 1.1        | H     | -1.07            | 36.42               | 54.00                   | -17.58 |
| 802.11ac(HT40) band IV High channel 5795MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                      | 42.37            | QP          | 175              | 1.6        | H     | -11.62           | 30.75               | 74.00                   | -43.25 |
| 223.46                                      | 40.32            | QP          | 315              | 2.0        | V     | -11.62           | 28.70               | 74.00                   | -45.30 |
| 4527.17                                     | 36.57            | PK          | 69               | 1.8        | H     | -1.86            | 34.71               | 74.00                   | -39.29 |
| 4527.17                                     | 31.97            | Ave         | 69               | 1.8        | H     | -1.86            | 30.11               | 54.00                   | -23.89 |
| 11590.00                                    | 41.44            | PK          | 139              | 1.4        | H     | 5.63             | 47.07               | 74.00                   | -26.93 |
| 11590.00                                    | 36.63            | Ave         | 139              | 1.4        | H     | 5.63             | 42.26               | 54.00                   | -11.74 |
| 5372.08                                     | 46.88            | PK          | 132              | 1.6        | H     | -1.03            | 45.85               | 74.00                   | -28.15 |
| 5372.08                                     | 38.77            | Ave         | 132              | 1.6        | H     | -1.03            | 37.74               | 54.00                   | -16.26 |

| Frequency                                  | Receiver Reading | Detector    | Turn table Angle | RX Antenna |       | Corrected Factor | Corrected Amplitude | FCC Part 15.407/209/205 |        |
|--------------------------------------------|------------------|-------------|------------------|------------|-------|------------------|---------------------|-------------------------|--------|
|                                            |                  |             |                  | Height     | Polar |                  |                     | Limit                   | Margin |
| (MHz)                                      | (dBμV)           | (PK/QP/Ave) | Degree           | (m)        | (H/V) | (dB)             | (dBμV/m)            | (dBμV/m)                | (dB)   |
| 802.11ac(HT80) band I low Channel 5210MHz  |                  |             |                  |            |       |                  |                     |                         |        |
| 223.46                                     | 39.97            | QP          | 330              | 1.3        | H     | -11.62           | 28.35               | 54.00                   | -25.65 |
| 4527.17                                    | 36.81            | QP          | 36               | 1.4        | V     | -11.62           | 25.19               | 54.00                   | -28.81 |
| 4523.26                                    | 31.80            | PK          | 117              | 1.1        | H     | -1.88            | 29.92               | 74.00                   | -44.08 |
| 4523.26                                    | 41.73            | Ave         | 117              | 1.1        | H     | -1.88            | 39.85               | 54.00                   | -14.15 |
| 10420.00                                   | 40.84            | PK          | 316              | 1.6        | H     | 4.65             | 45.49               | 74.00                   | -28.51 |
| 10420.00                                   | 36.39            | Ave         | 316              | 1.6        | H     | 4.65             | 41.04               | 54.00                   | -12.96 |
| 5362.77                                    | 45.39            | PK          | 320              | 1.5        | H     | -1.13            | 44.26               | 74.00                   | -29.74 |
| 5362.77                                    | 39.41            | Ave         | 320              | 1.5        | H     | -1.13            | 38.28               | 54.00                   | -15.72 |
| 802.11ac(HT80) band IV low Channel 5775MHz |                  |             |                  |            |       |                  |                     |                         |        |
| 4527.17                                    | 37.09            | QP          | 332              | 2.0        | H     | -11.62           | 25.47               | 74.00                   | -48.53 |
| 4523.26                                    | 32.00            | QP          | 219              | 1.4        | V     | -11.62           | 20.38               | 74.00                   | -53.62 |
| 4536.67                                    | 41.16            | PK          | 198              | 1.2        | H     | -1.85            | 39.31               | 74.00                   | -34.69 |
| 4536.67                                    | 40.27            | Ave         | 198              | 1.2        | H     | -1.85            | 38.42               | 54.00                   | -15.58 |
| 11550.00                                   | 40.61            | PK          | 50               | 1.0        | H     | 4.83             | 45.44               | 74.00                   | -28.56 |
| 11550.00                                   | 37.37            | Ave         | 50               | 1.0        | H     | 4.83             | 42.20               | 54.00                   | -11.80 |
| 5350.85                                    | 46.75            | PK          | 170              | 1.7        | H     | -1.14            | 45.61               | 74.00                   | -28.39 |
| 5350.85                                    | 38.98            | Ave         | 170              | 1.7        | H     | -1.14            | 37.84               | 54.00                   | -16.16 |

**Test Frequency: 18GHz~40GHz**

The measurements were more than 20 dB below the limit and not reported.

## 8 Duty cycle

|                   |                                                                                                                         |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C 15.407 and 789033 D02 General UNII Test Procedures New Rules v01, Section (B)                           |
| Test Method:      | ANSI C63.10: 2009                                                                                                       |
| Test Limit:       | N/A                                                                                                                     |
| Test Result:      | PASS                                                                                                                    |
| Remark:           | Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report. |

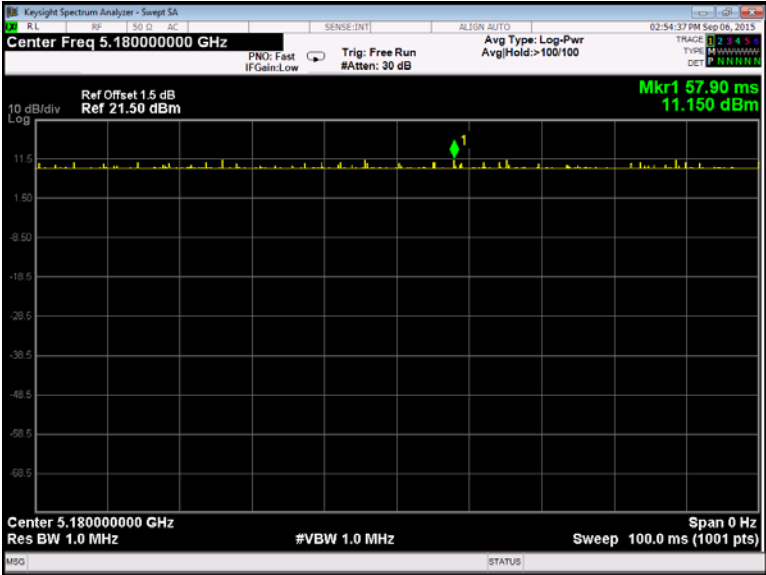
### 8.1 Summary of Test Results

| 802.11a mode        |             |            |               |
|---------------------|-------------|------------|---------------|
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 36                  | 100         | 100        | 100           |
| 149                 | 100         | 100        | 100           |
| 802.11n(HT20) mode  |             |            |               |
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 36                  | 100         | 100        | 100           |
| 149                 | 100         | 100        | 100           |
| 802.11n(HT40) mode  |             |            |               |
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 38                  | 100         | 100        | 100           |
| 151                 | 100         | 100        | 100           |
| 802.11ac(HT20) mode |             |            |               |
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 36                  | 100         | 100        | 100           |
| 149                 | 100         | 100        | 100           |
| 802.11ac(HT40) mode |             |            |               |
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 38                  | 100         | 100        | 100           |
| 151                 | 100         | 100        | 100           |
| 802.11ac(HT80) mode |             |            |               |
| channel             | On time(ms) | Period(ms) | Duty Cycle(%) |
| 42                  | 100         | 100        | 100           |
| 155                 | 100         | 100        | 100           |

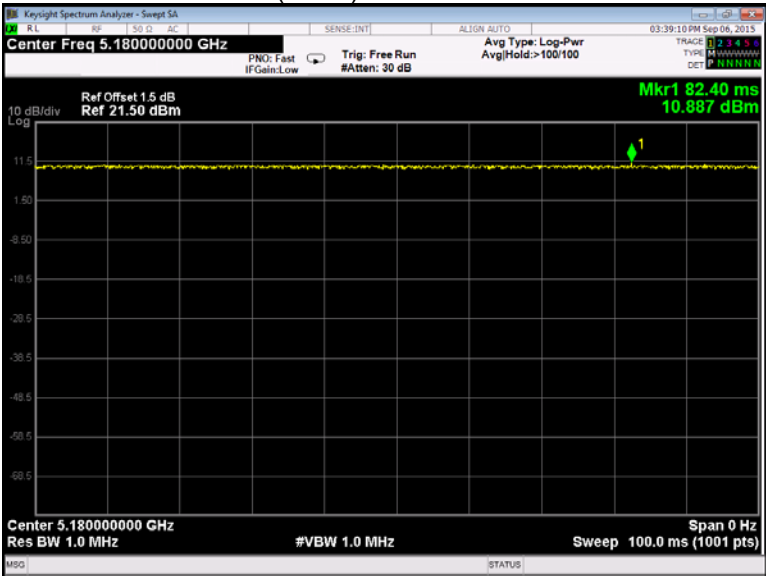
Test result plots shown as follows:

ANT0

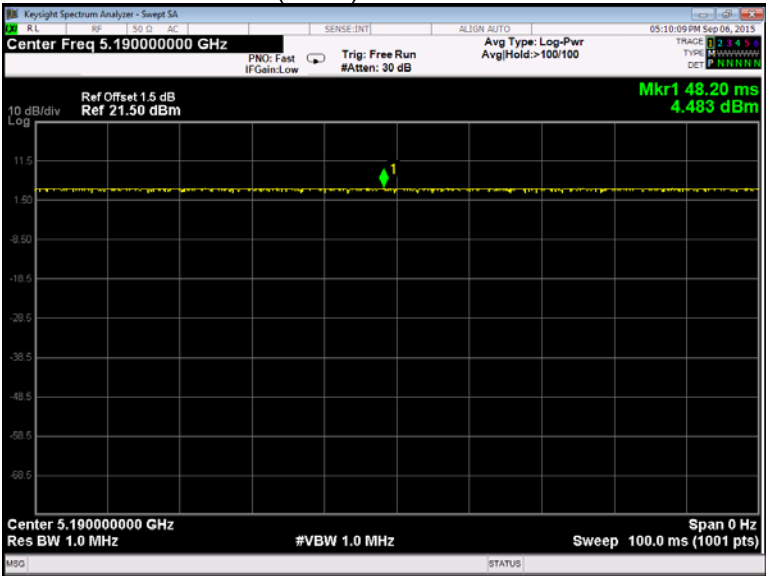
802.11a band I Low channel



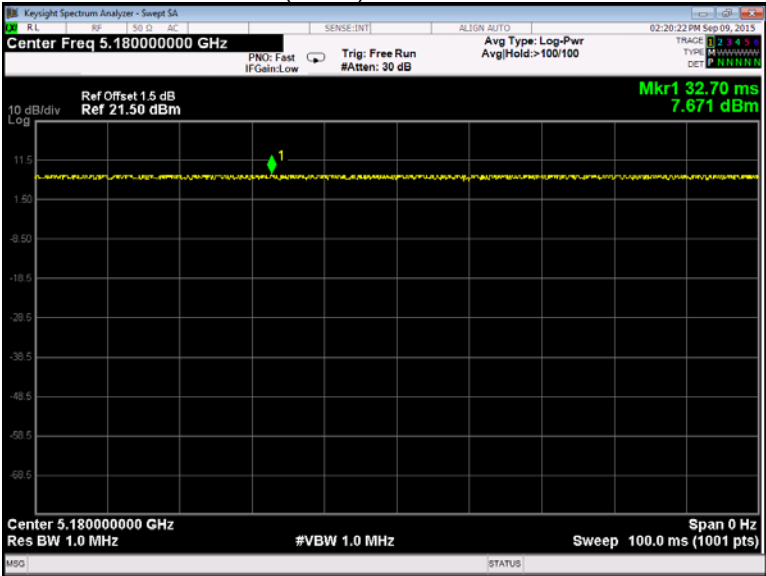
802.11n(HT20) band I Low channel



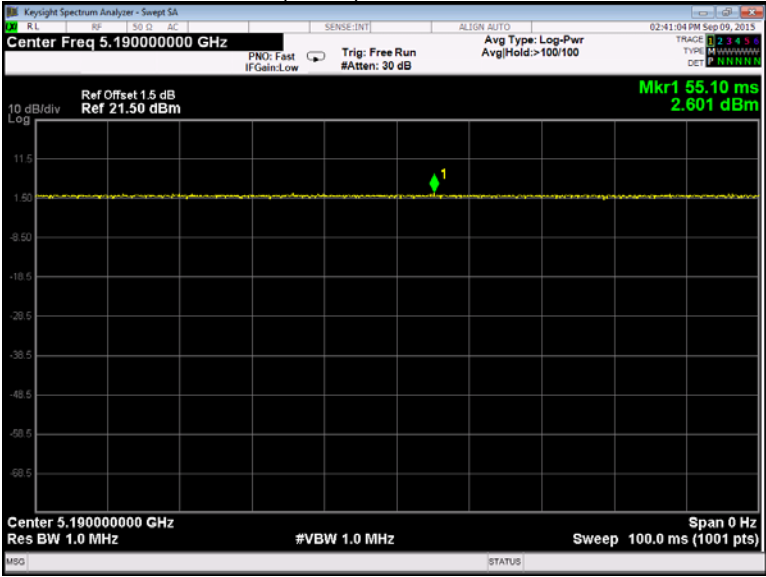
802.11n(HT40) band I Low channel



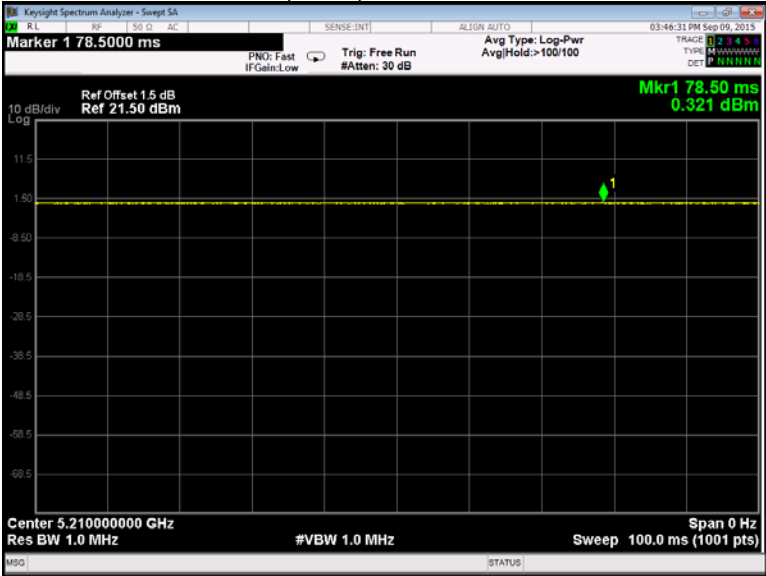
802.11ac(HT20) band I Low channel



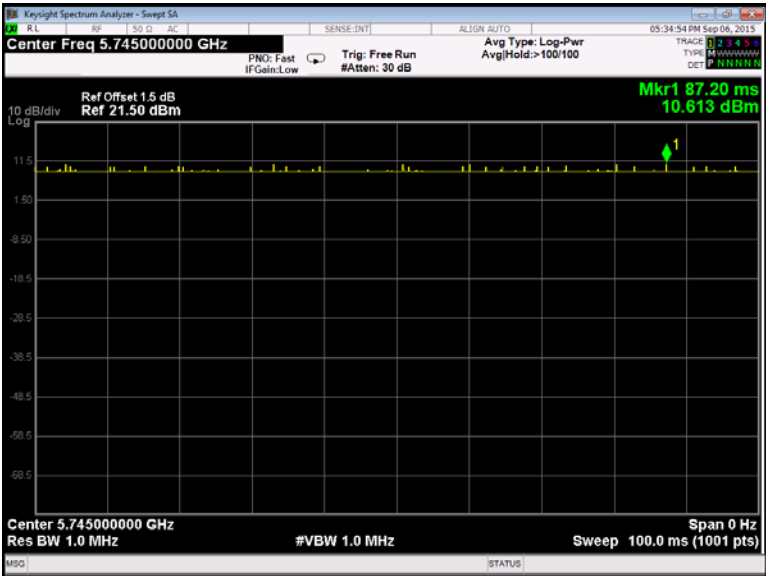
802.11ac(HT40) band I Low channel



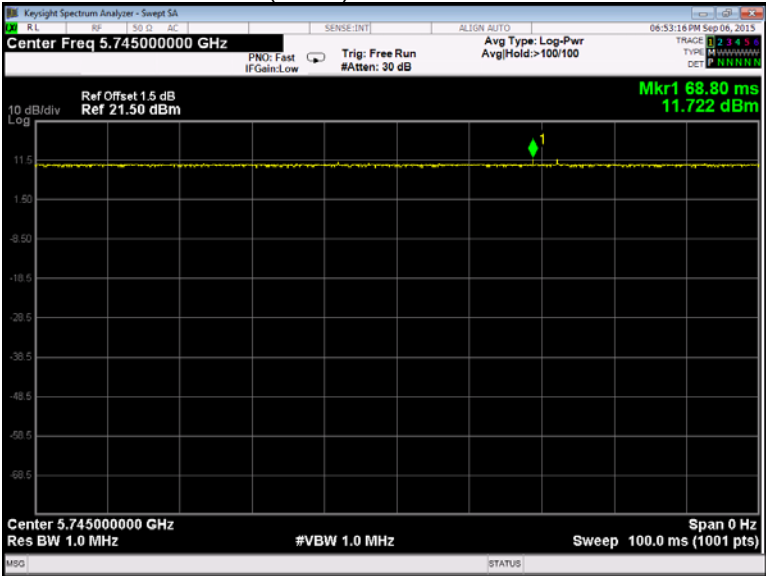
802.11ac(HT80) band I Low channel



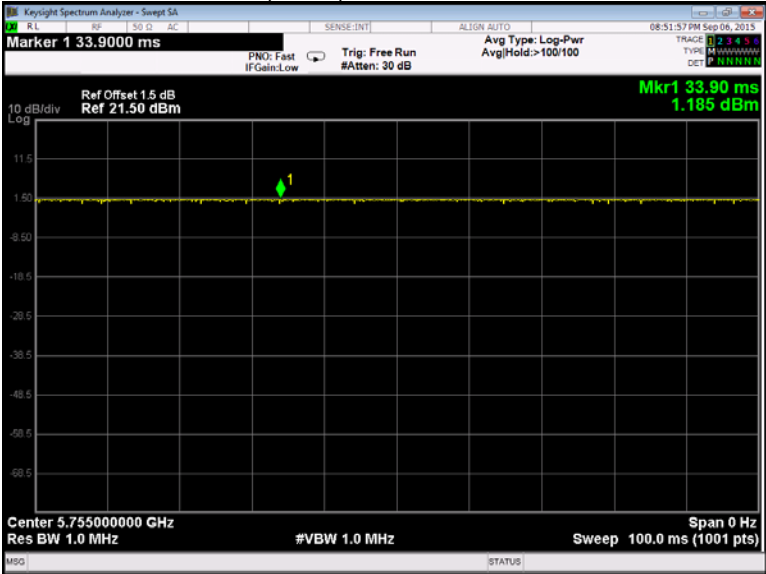
802.11a band IV Low channel



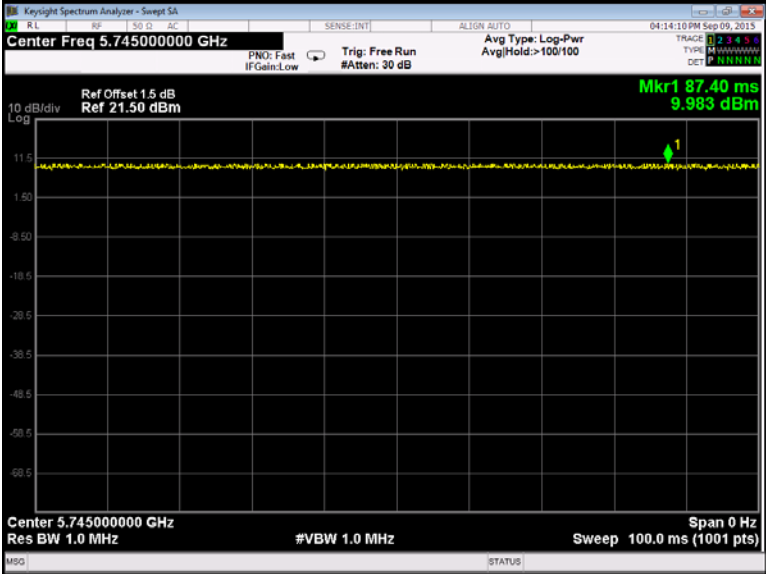
802.11n(HT20) band IV Low channel



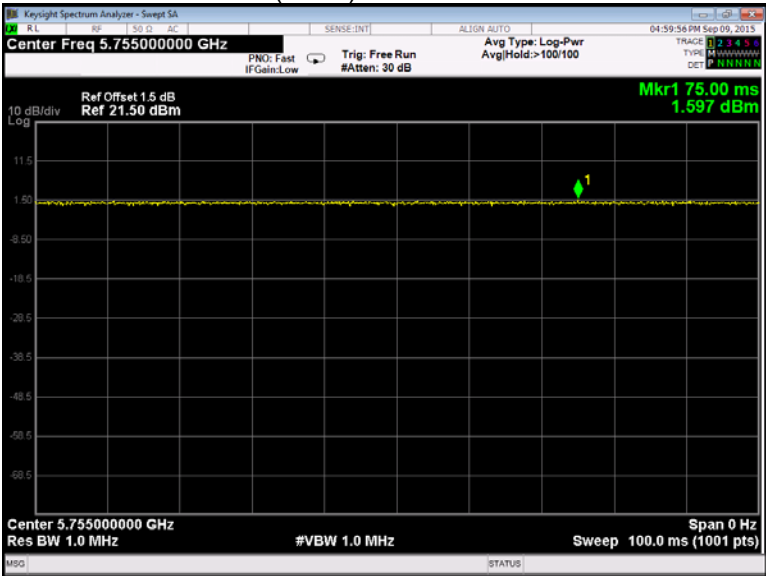
802.11n(HT40) band IV Low channel



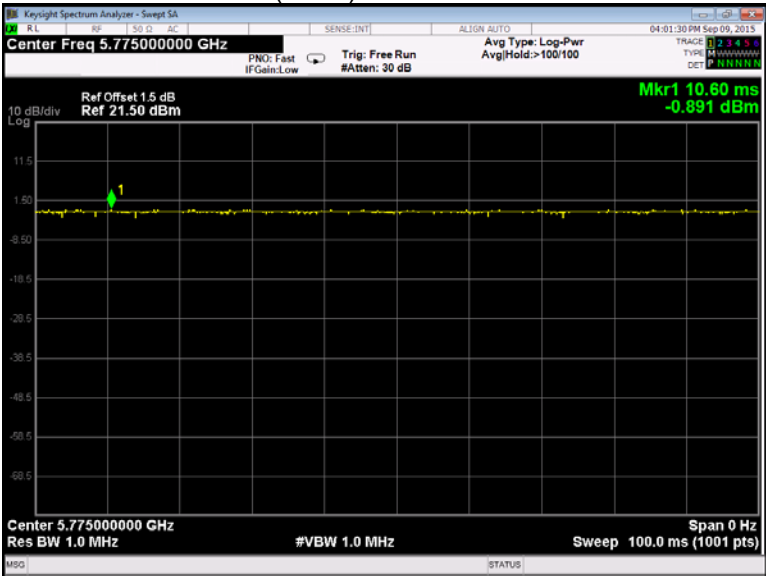
802.11ac(HT20) band IV Low channel



802.11ac(HT40) band IV Low channel

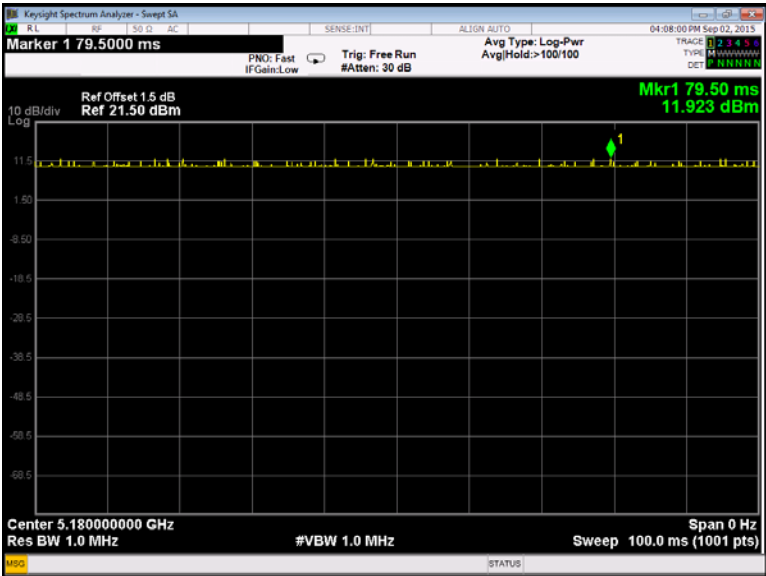


802.11ac(HT80) band IV Low channel

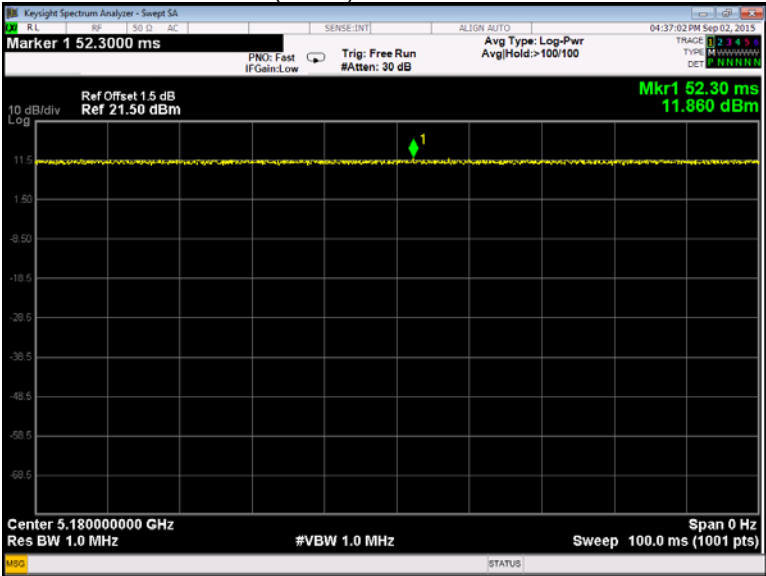


ANT1

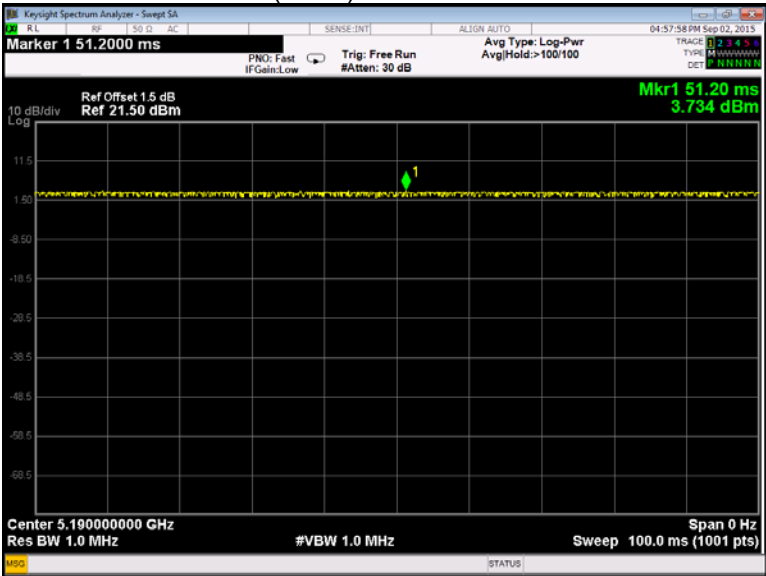
802.11a band I Low channel



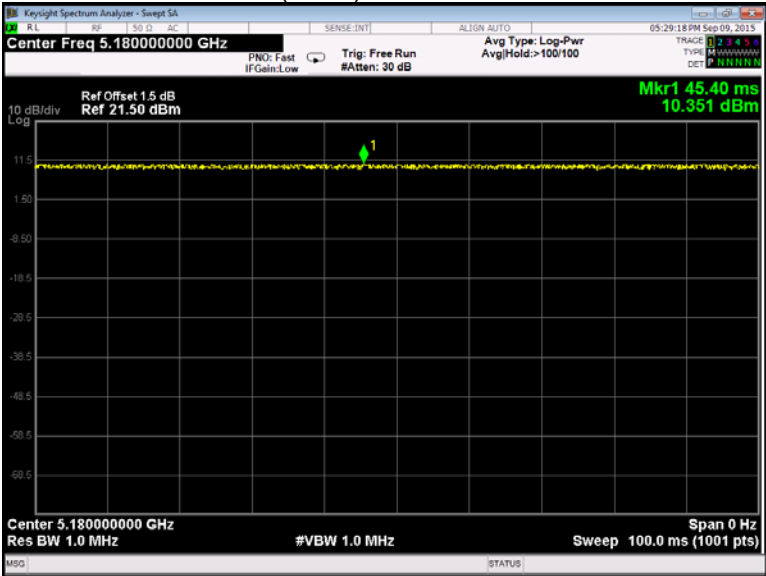
802.11n(HT20) band I Low channel



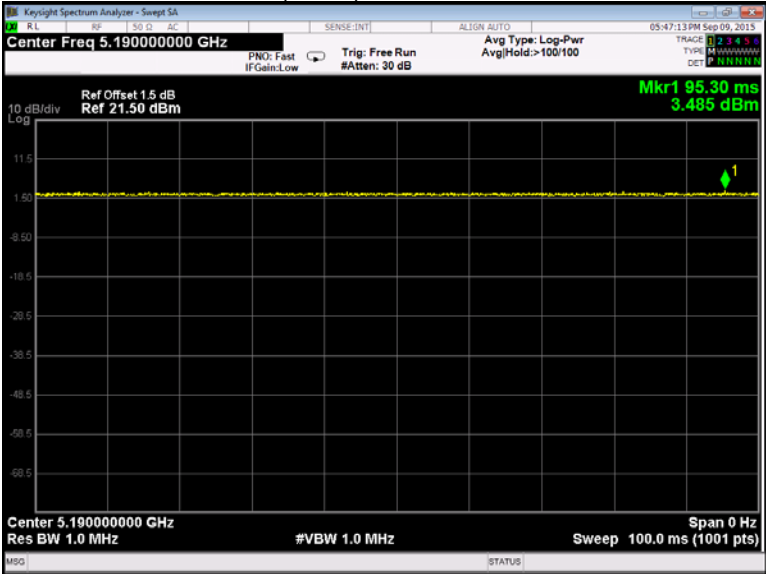
802.11n(HT40) band I Low channel



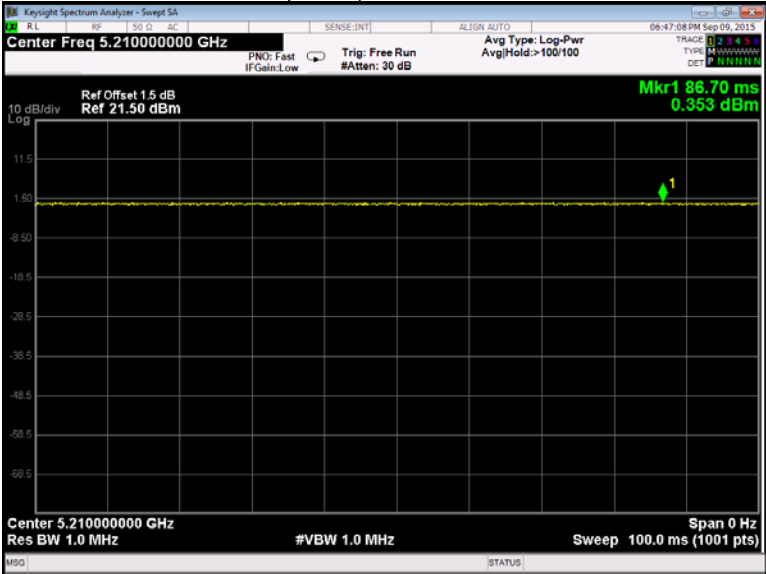
802.11ac(HT20) band I Low channel



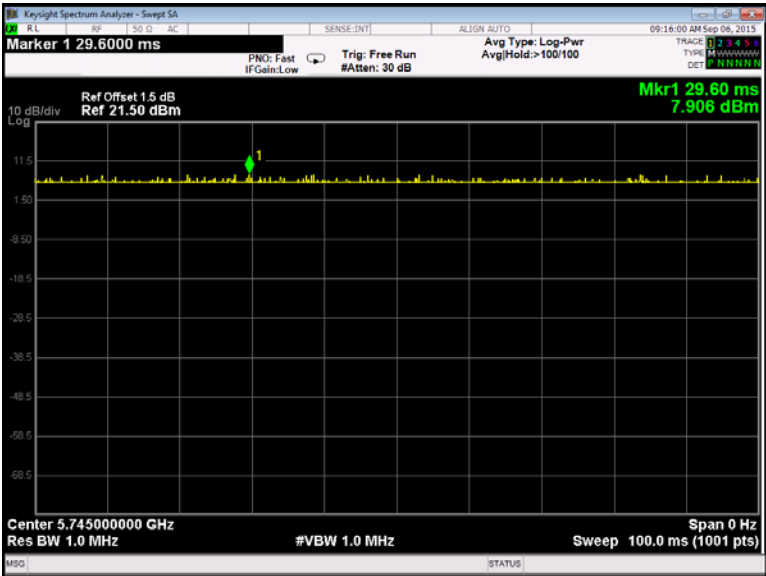
802.11ac(HT40) band I Low channel



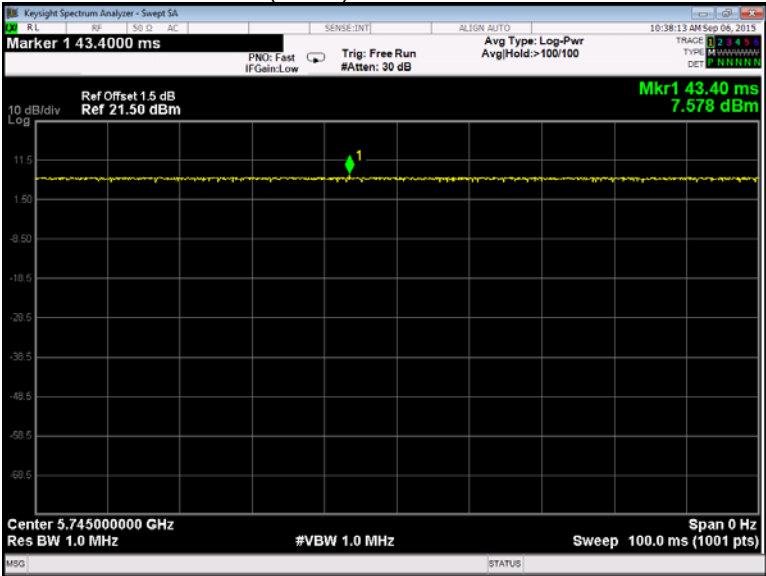
802.11ac(HT80) band I Low channel



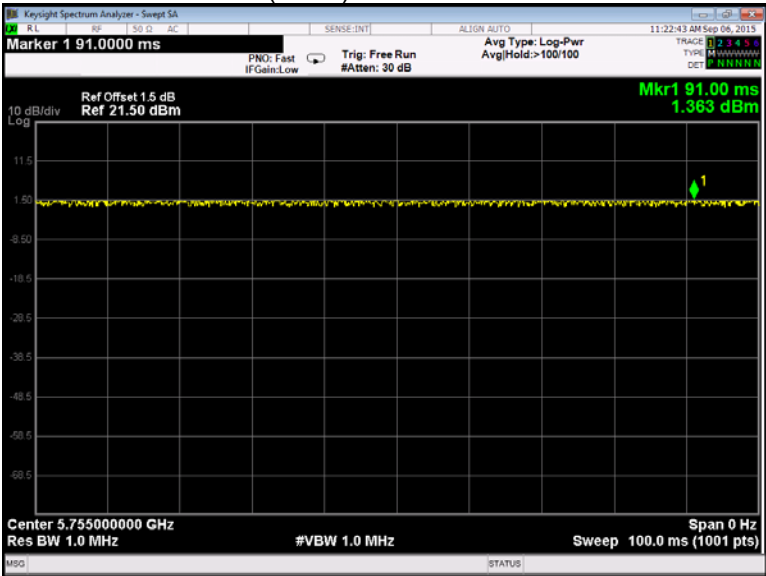
802.11a band IV Low channel



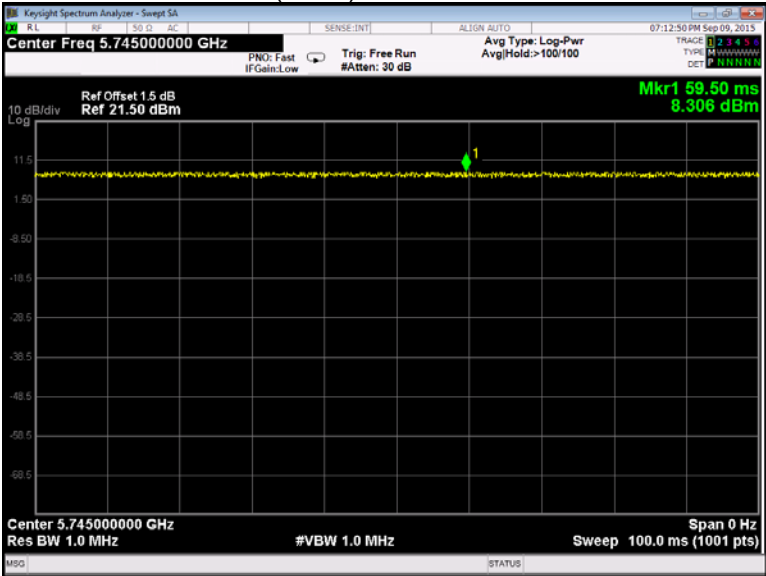
802.11n(HT20) band IV Low channel



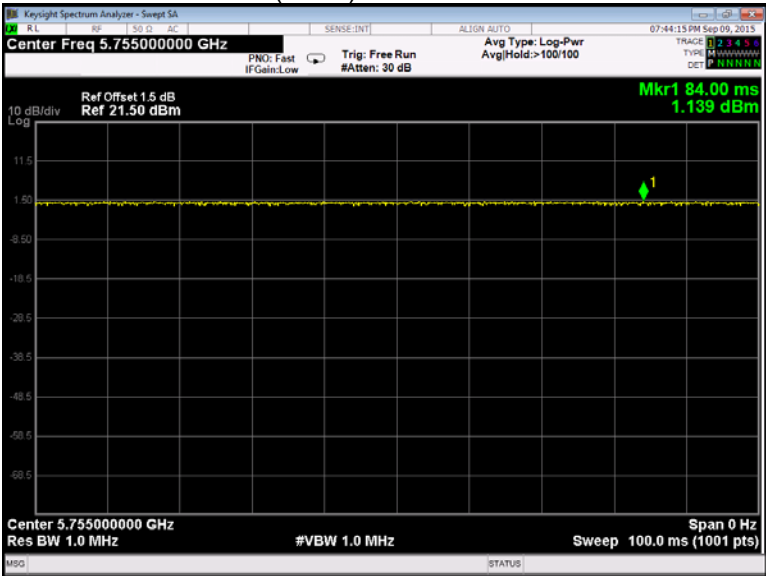
802.11n(HT40) band IV Low channel



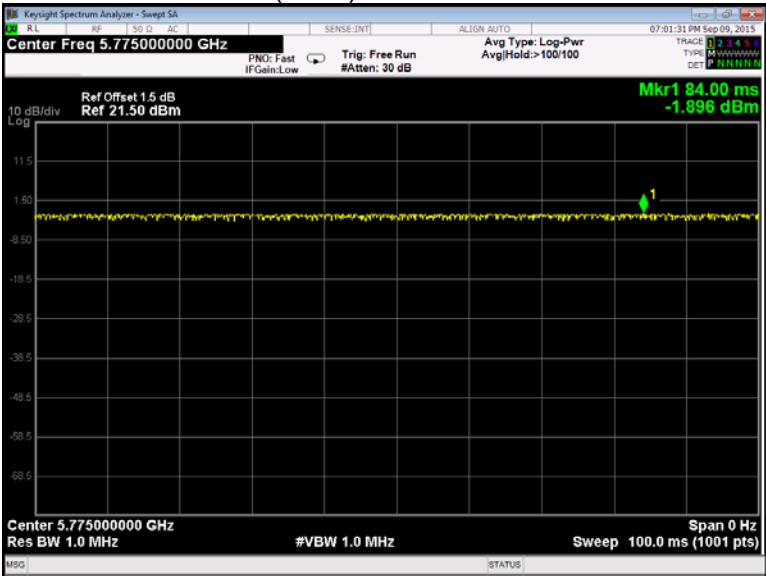
802.11ac(HT20) band IV Low channel



802.11ac(HT40) band IV Low channel



802.11ac(HT80) band IV Low channel



## 9 Band Edge

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC CFR47 Part 15 Section 15.407                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Method:      | ANSI C63.10 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Test Limit:       | (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.<br>(2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz. |
| Test Result:      | PASS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 9.1 Test Produce

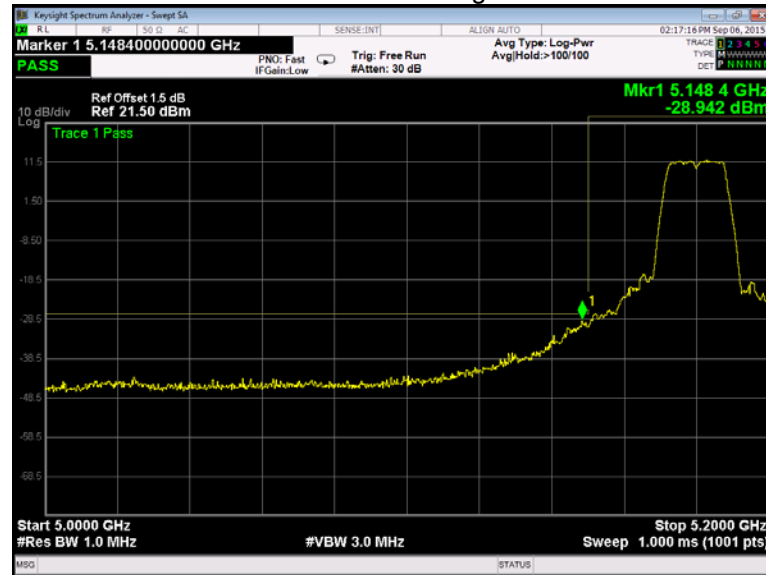
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

## 9.2 Test Result

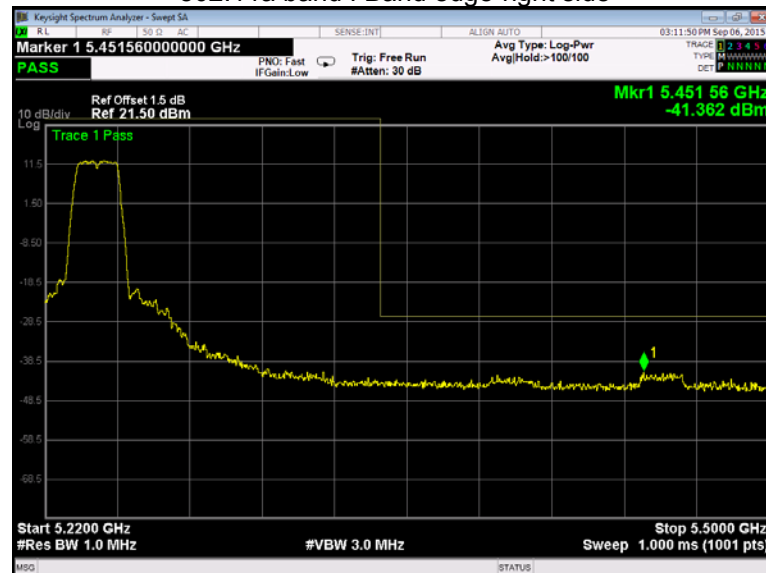
Test result plots shown as follows:

### ANTO

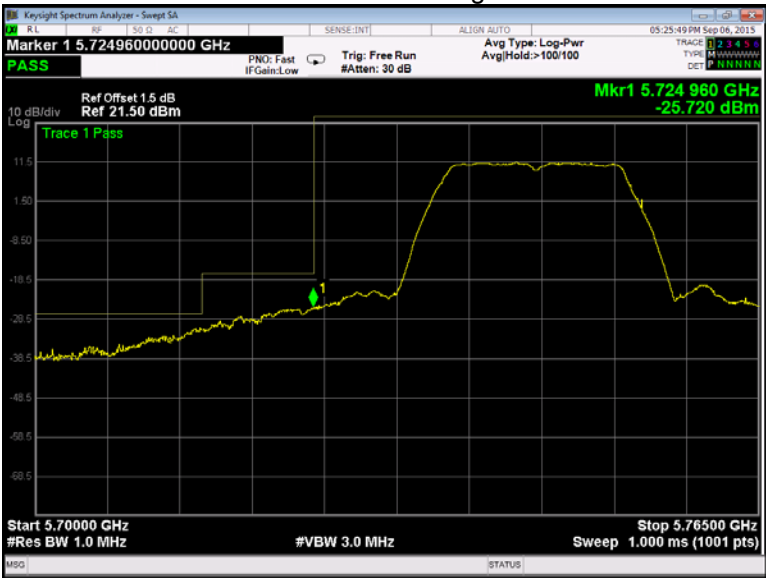
802.11a band I Band edge-left side



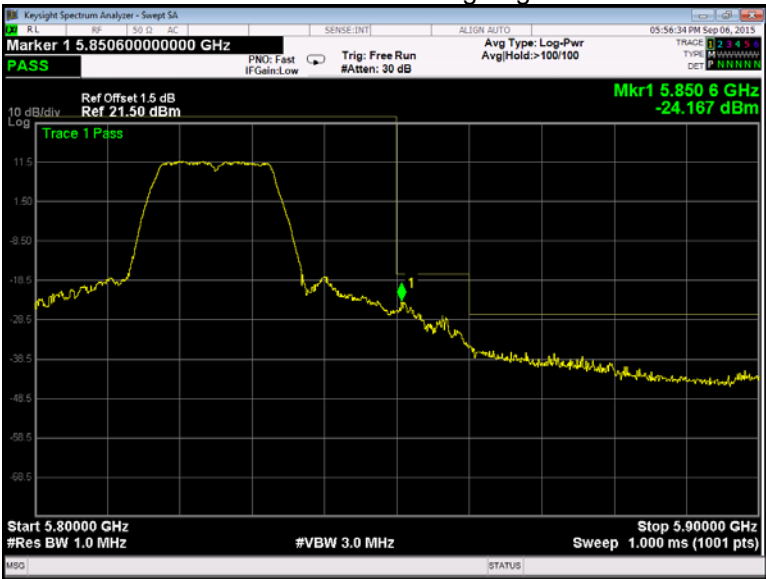
802.11a band I Band edge-right side



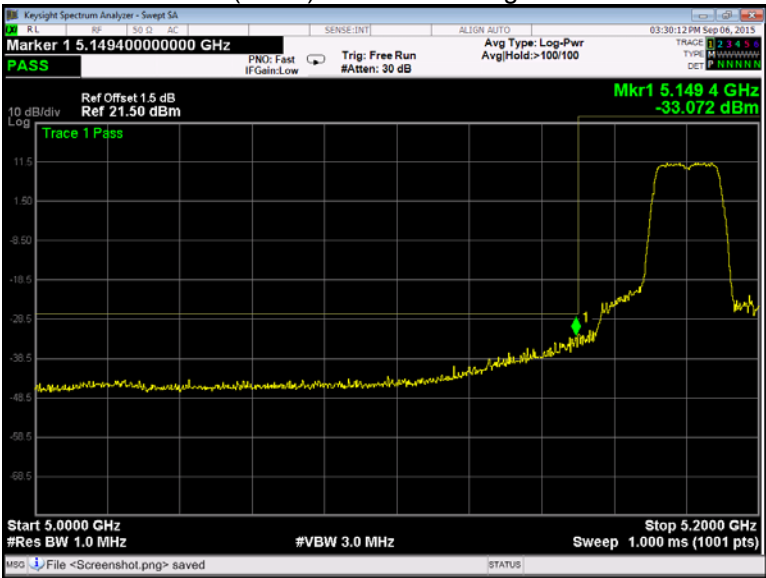
802.11a band IV Band edge-left side



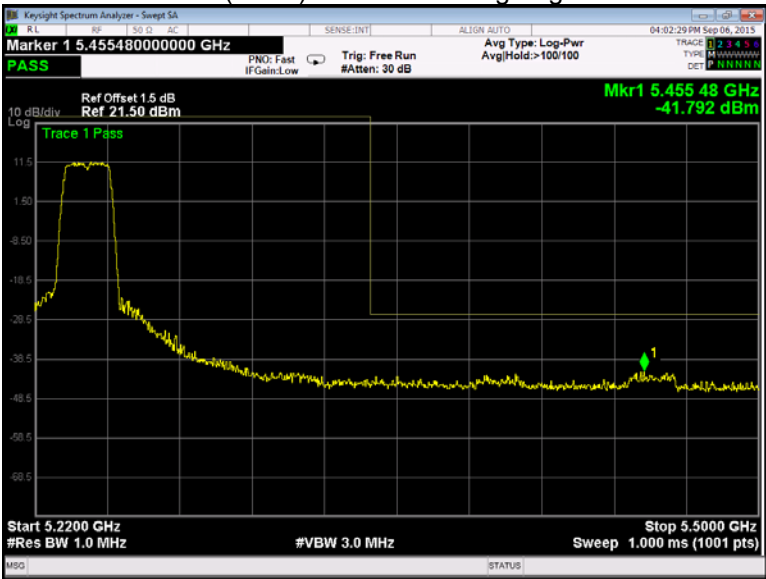
802.11a band IV Band edge-right side



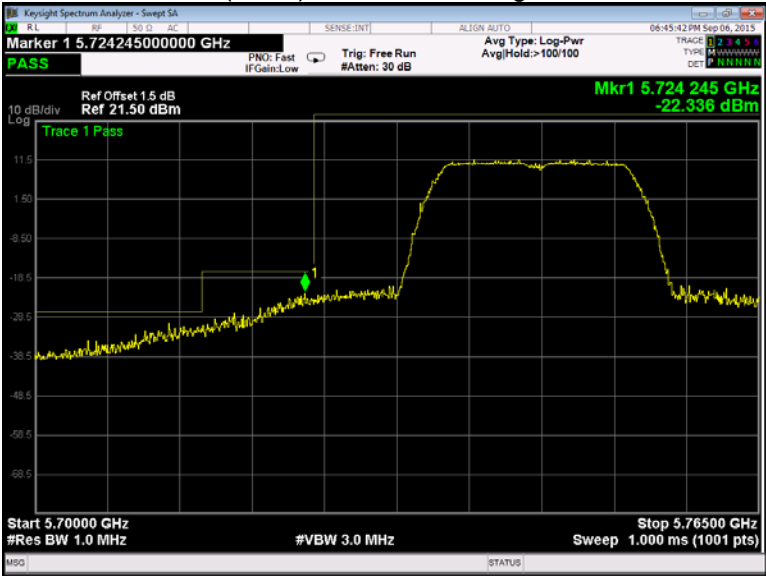
802.11n(HT20) band I Band edge-left side



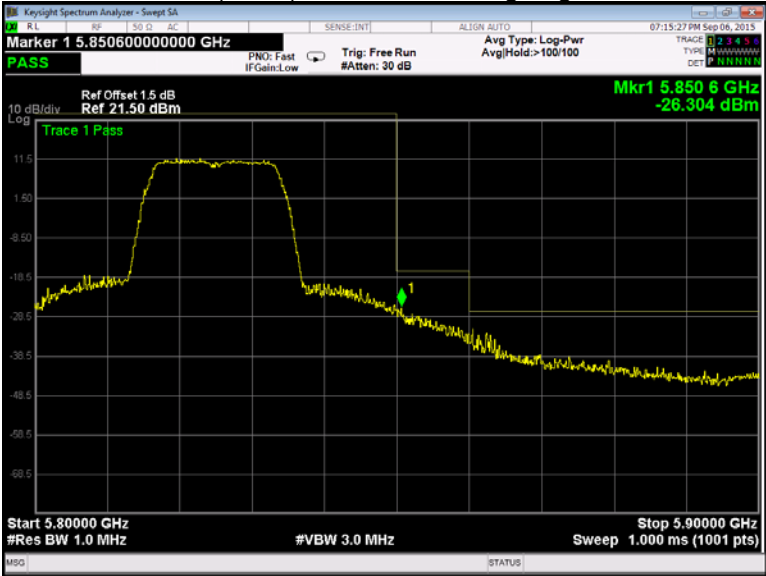
802.11n(HT20) band I Band edge-right side



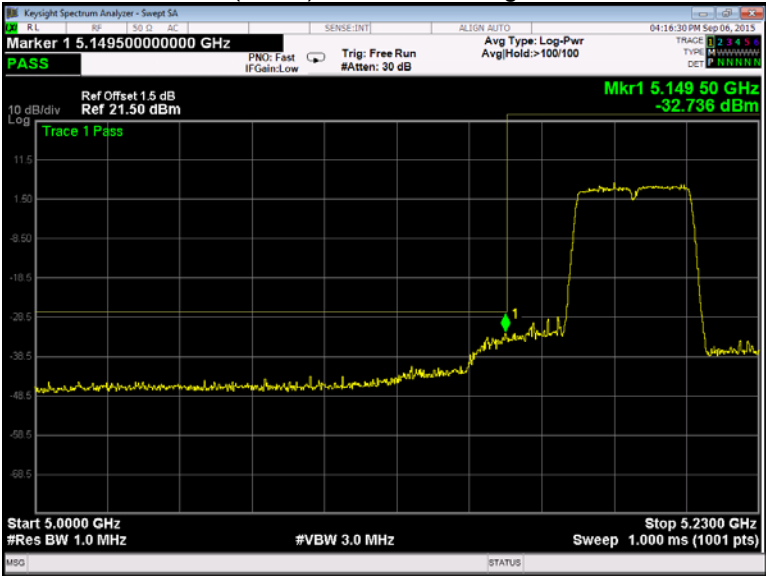
802.11n(HT20) band IV Band edge-left side



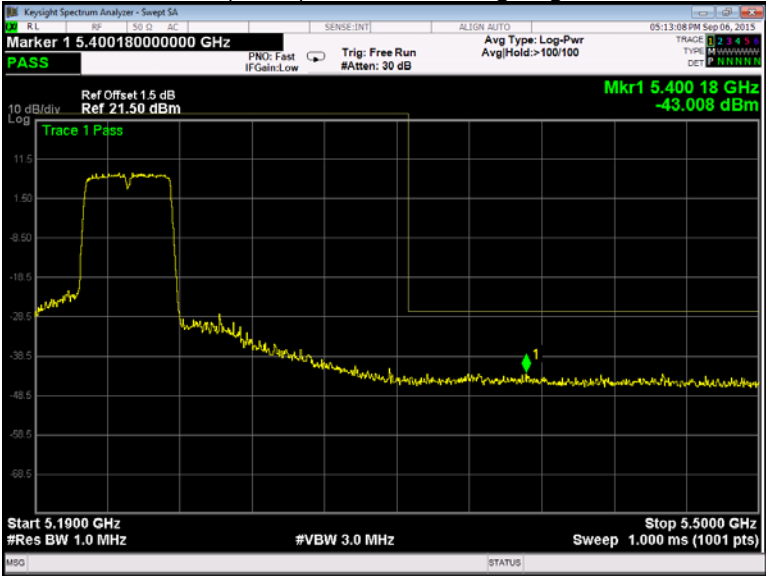
802.11n(HT20) band IV Band edge-right side



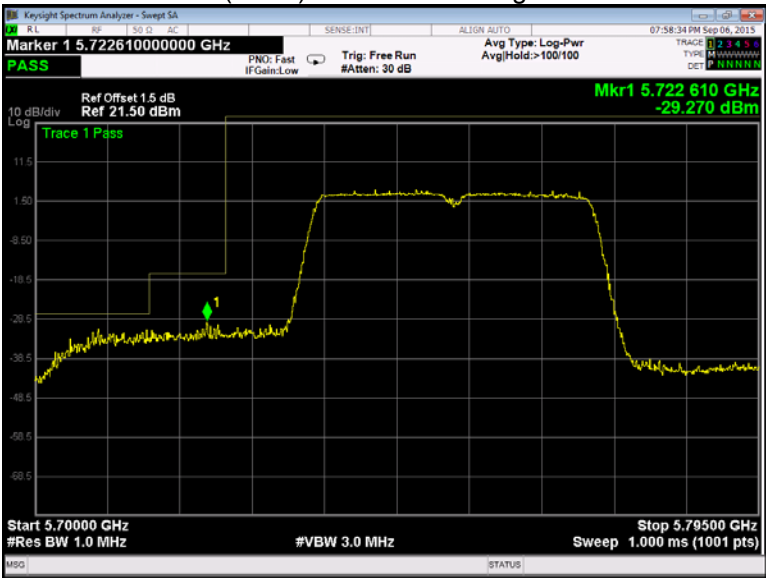
802.11n(HT40) band I Band edge-left side



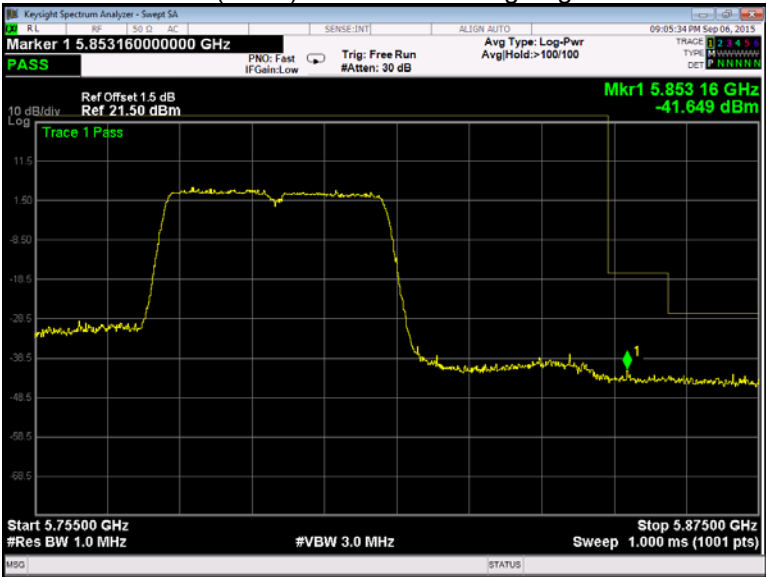
802.11n(HT40) band I Band edge-right side



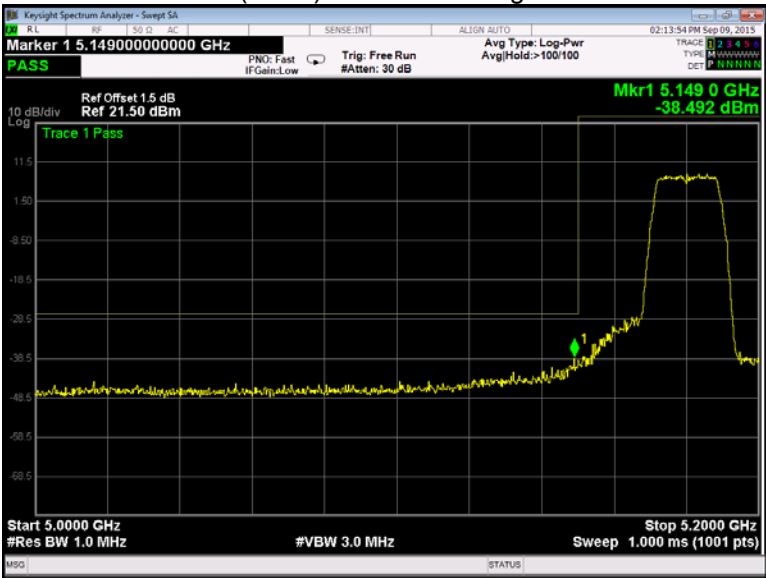
802.11n(HT40) band IV Band edge-left side



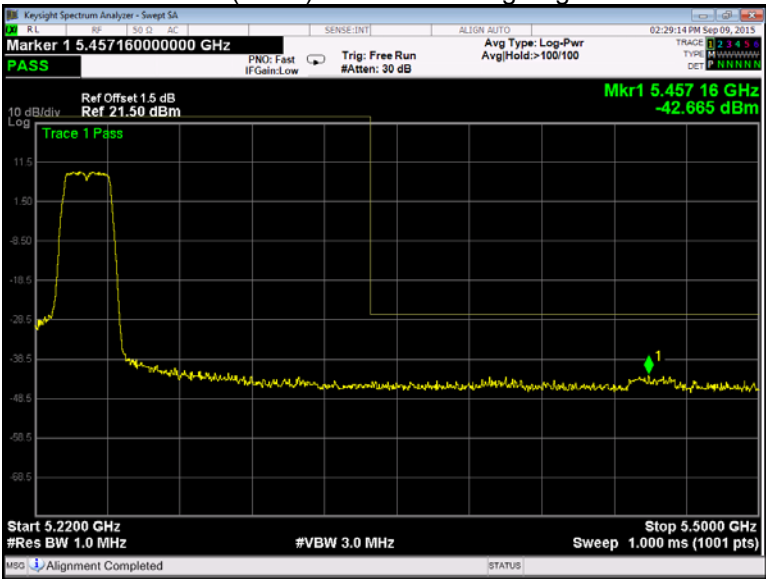
802.11n(HT40) band IV Band edge-right side



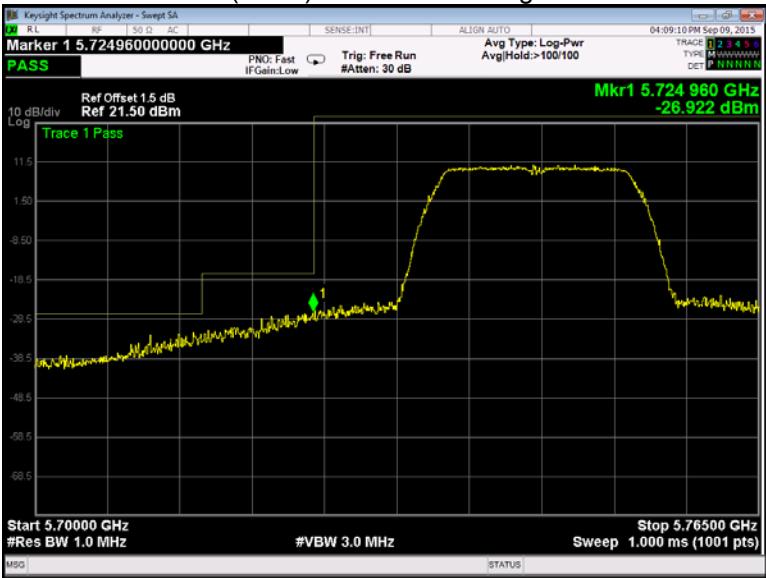
802.11ac(HT20) band I Band edge-left side



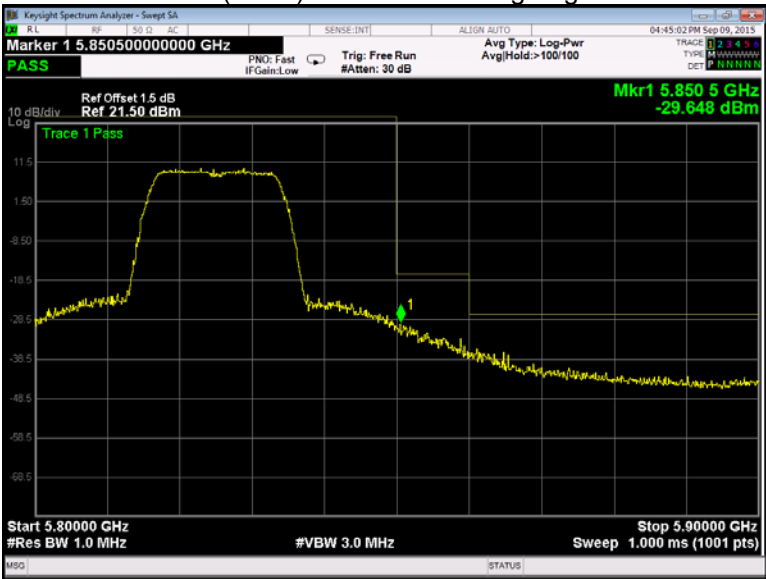
802.11ac(HT20) band I Band edge-right side



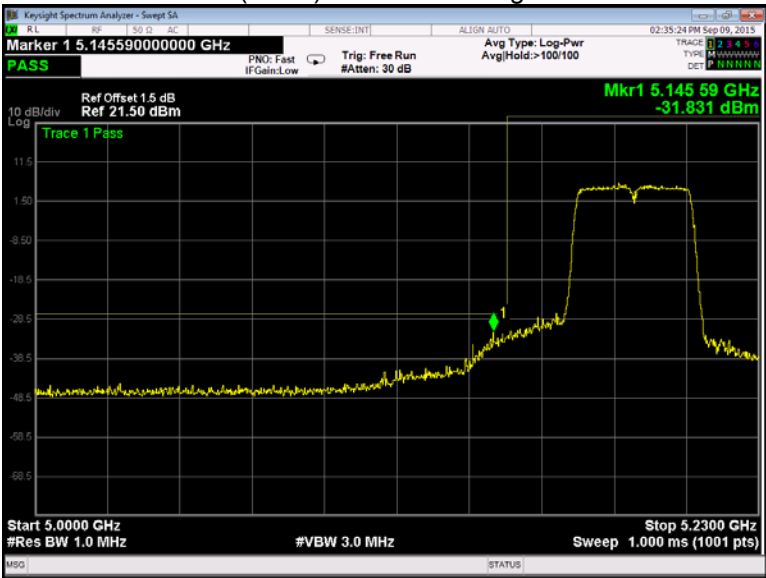
802.11ac(HT20) band IV Band edge-left side



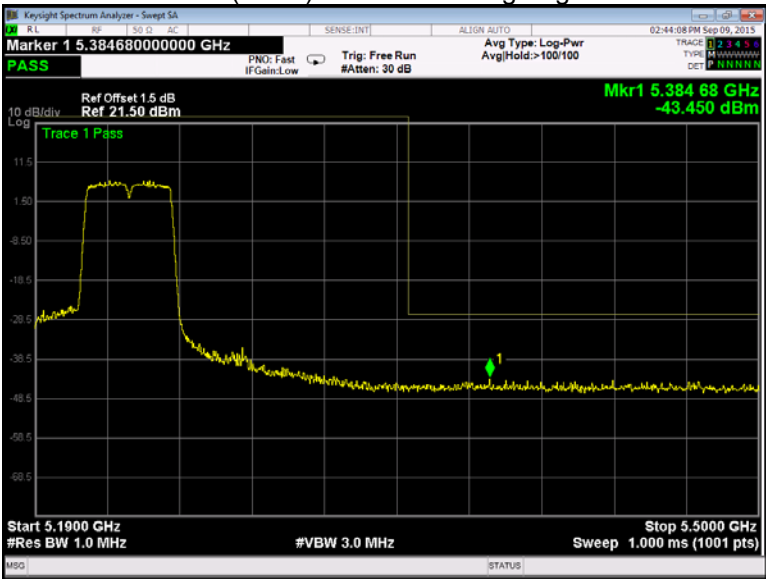
802.11ac(HT20) band IV Band edge-right side



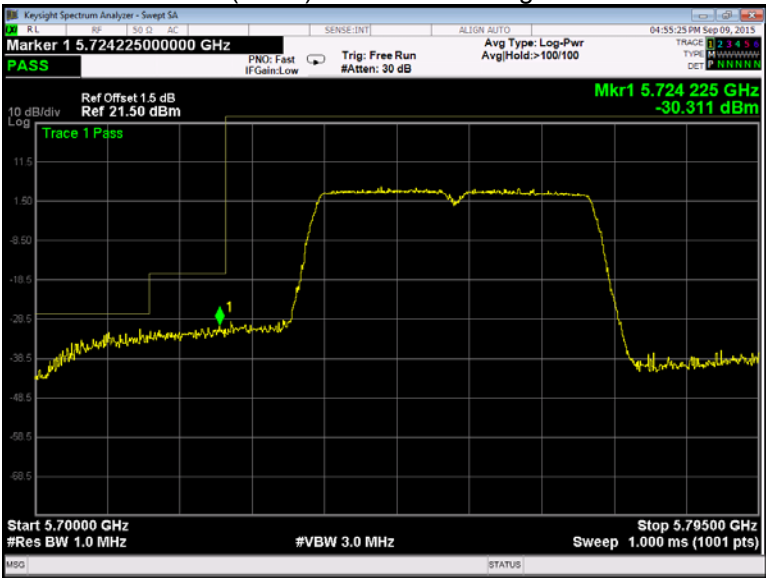
802.11ac(HT40) band I Band edge-left side



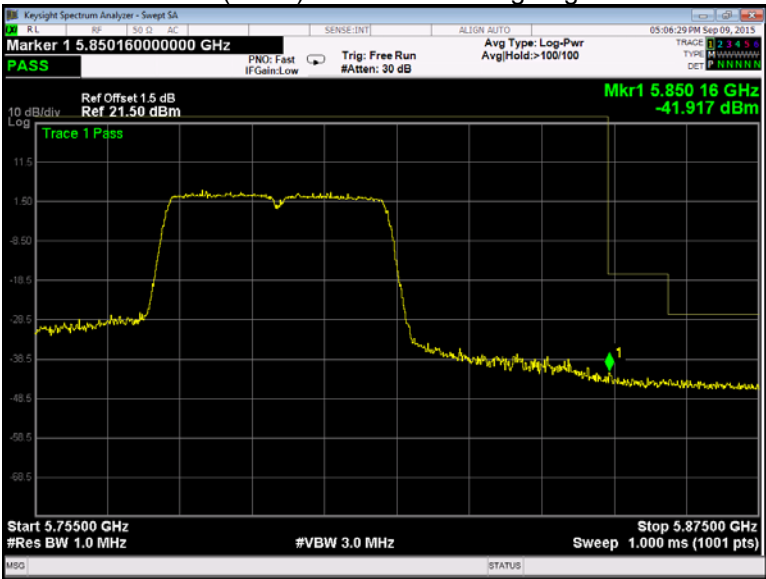
802.11ac(HT40) band I Band edge-right side



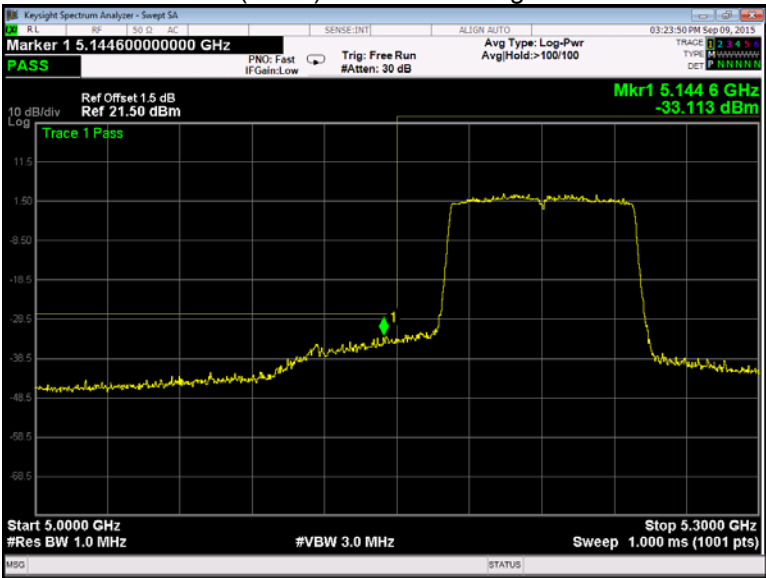
802.11ac(HT40) band IV Band edge-left side



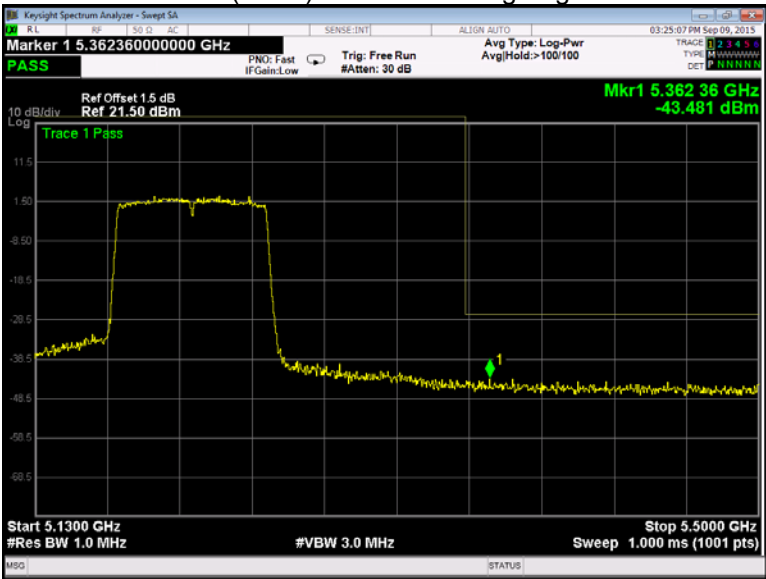
802.11ac(HT40) band IV Band edge-right side



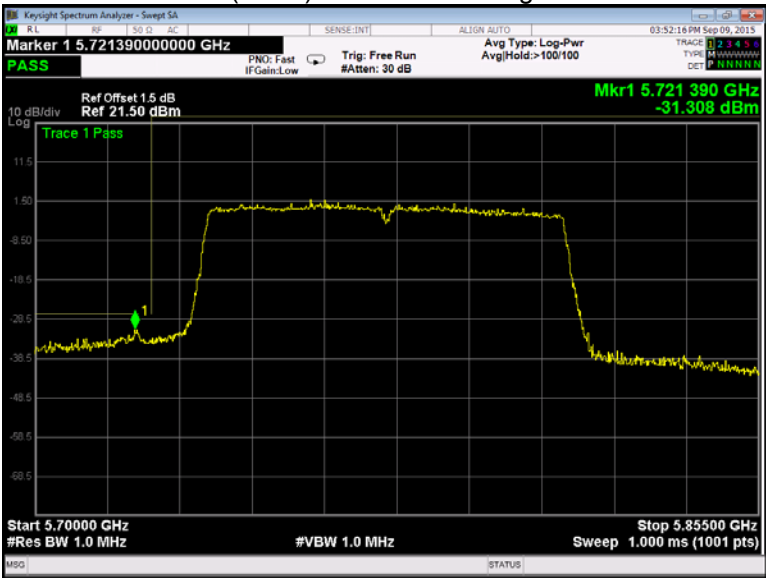
802.11ac(HT80) band I Band edge-left side



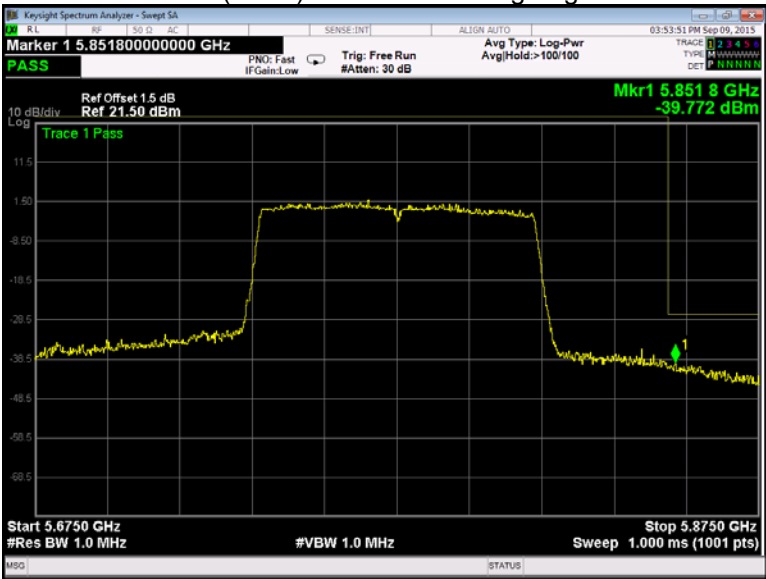
802.11ac(HT80) band I Band edge-right side



802.11ac(HT80) band IV Band edge-left side

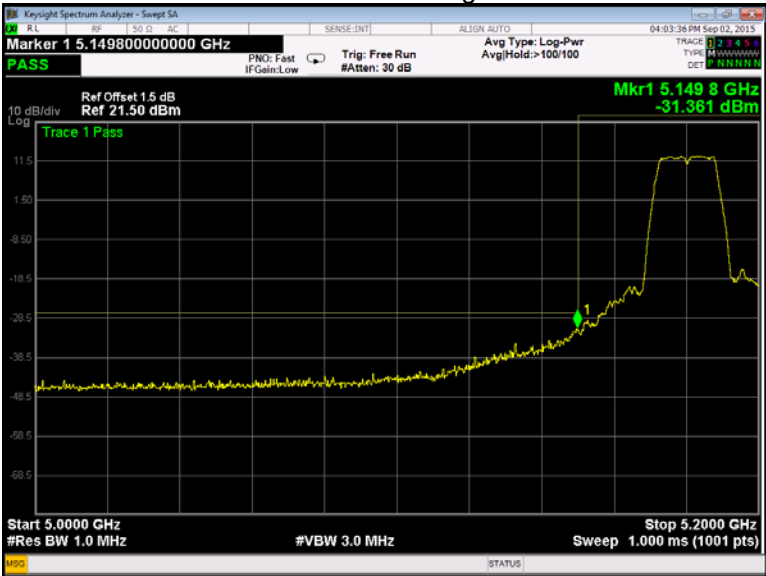


802.11ac(HT80) band IV Band edge-right side

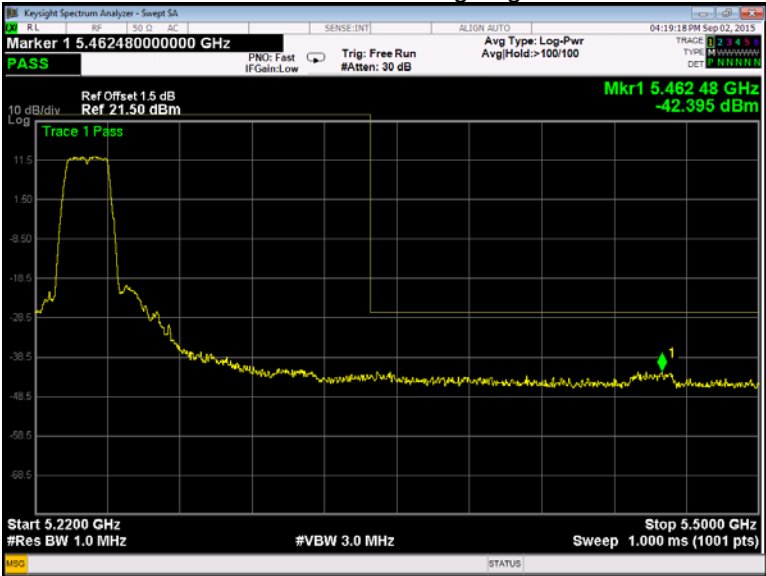


ANT1

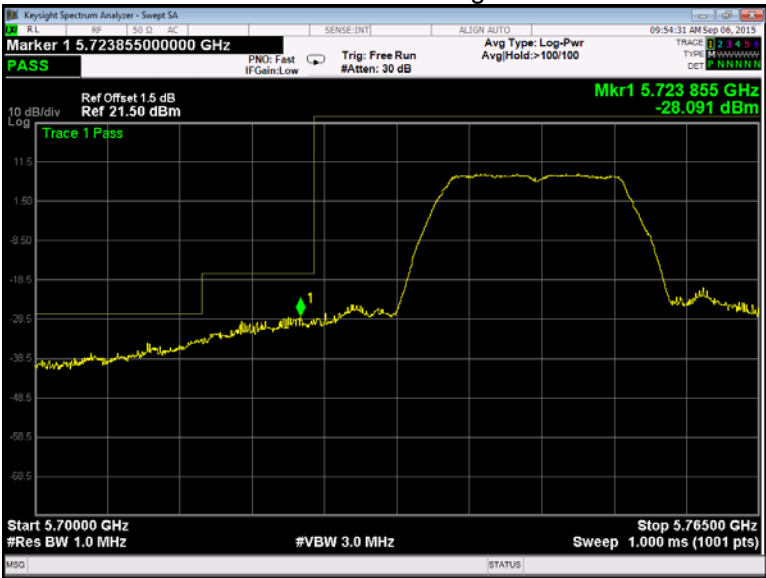
802.11a band I Band edge-left side



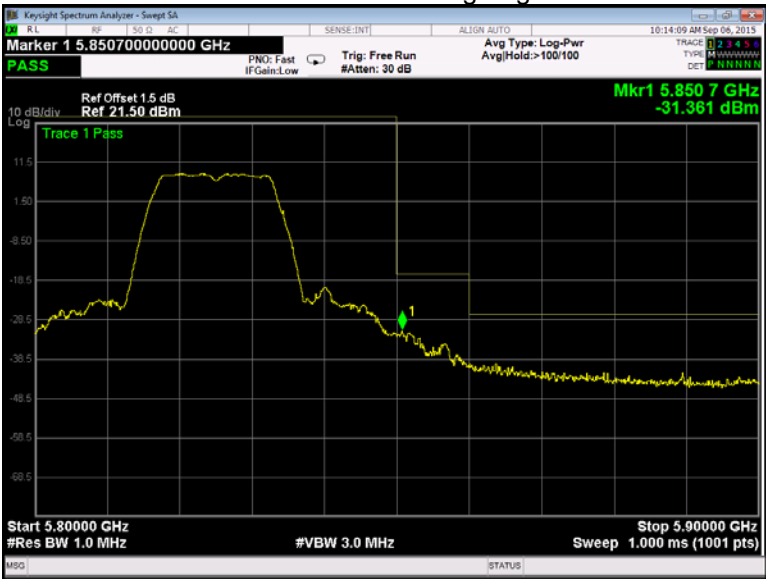
802.11a band I Band edge-right side



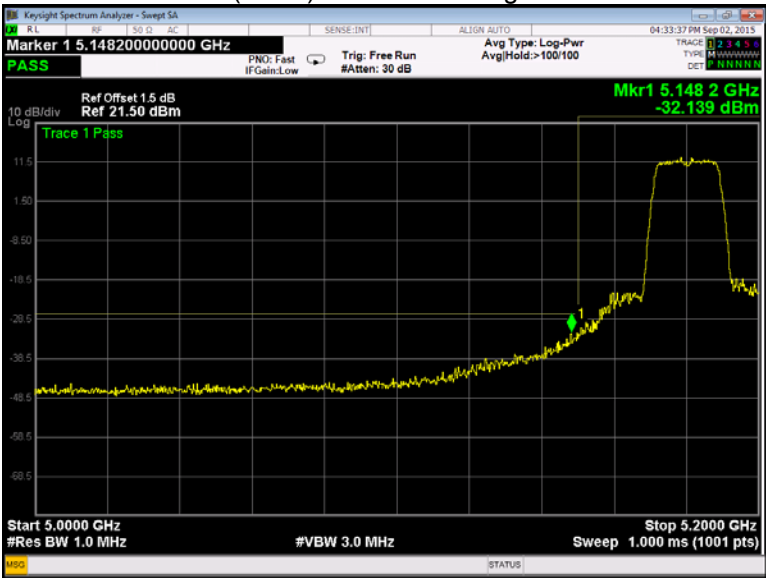
802.11a band IV Band edge-left side



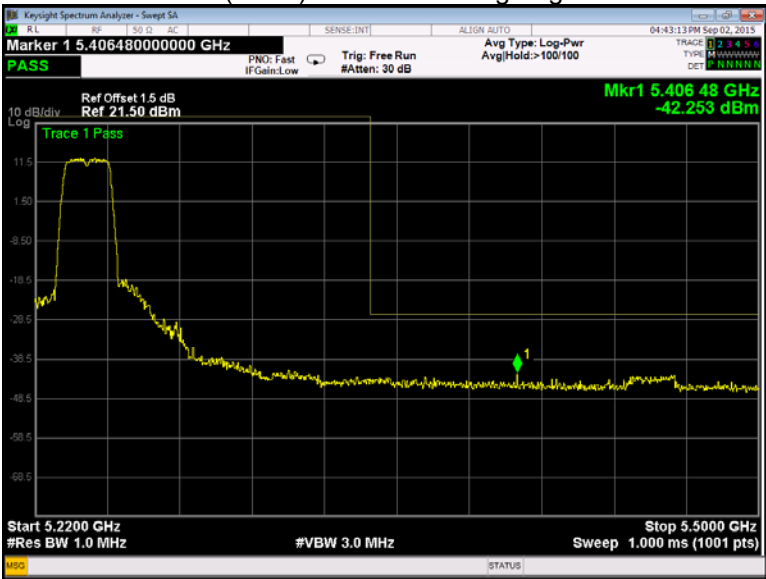
802.11a band IV Band edge-right side



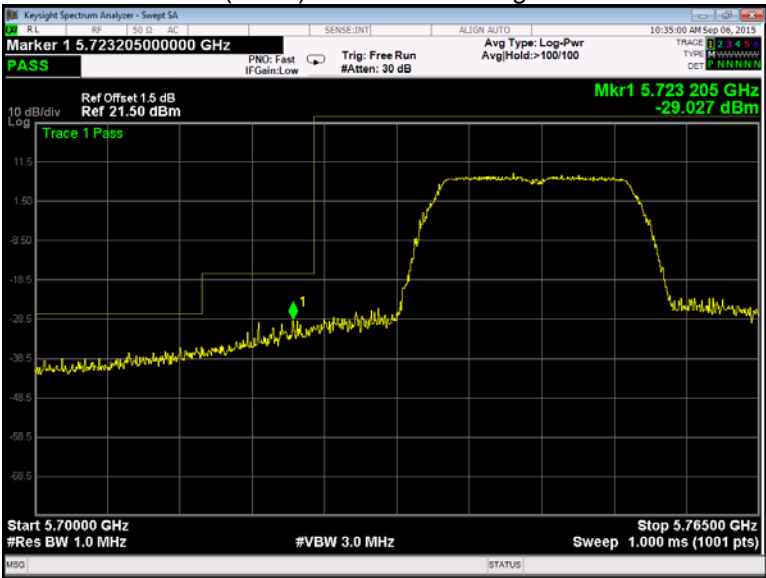
802.11n(HT20) band I Band edge-left side



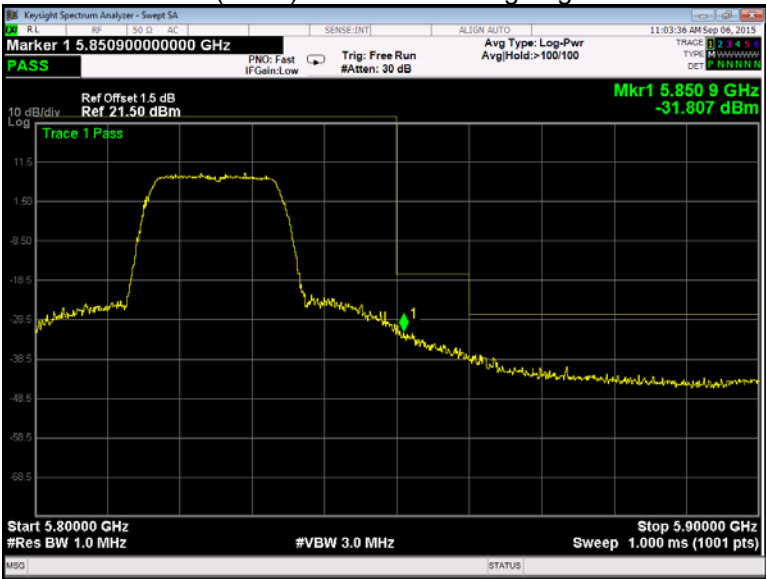
802.11n(HT20) band I Band edge-right side



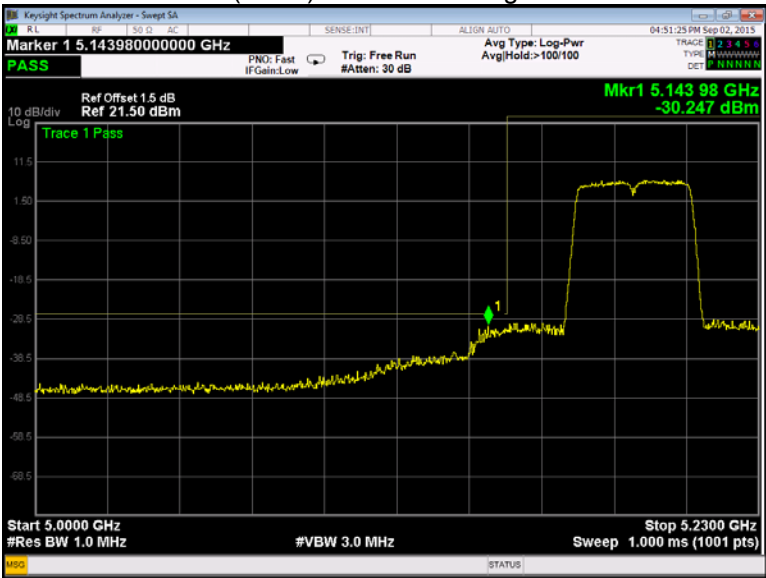
802.11n(HT20) band IV Band edge-left side



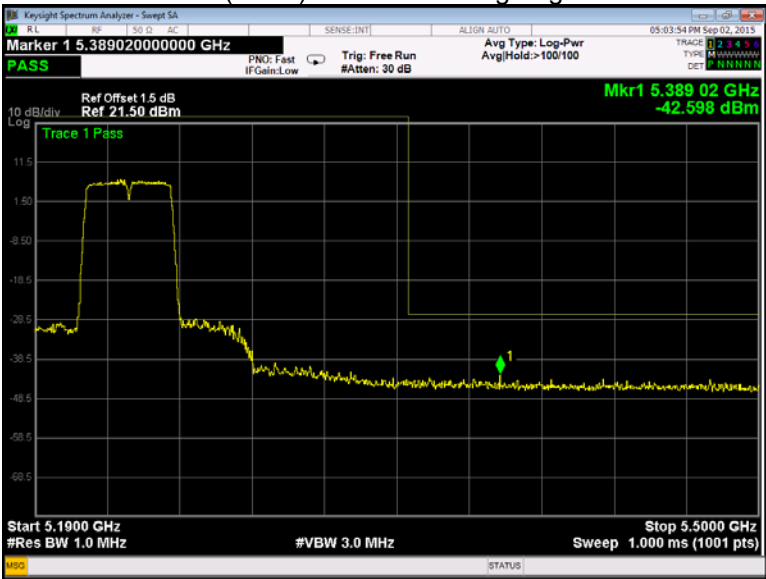
802.11n(HT20) band IV Band edge-right side



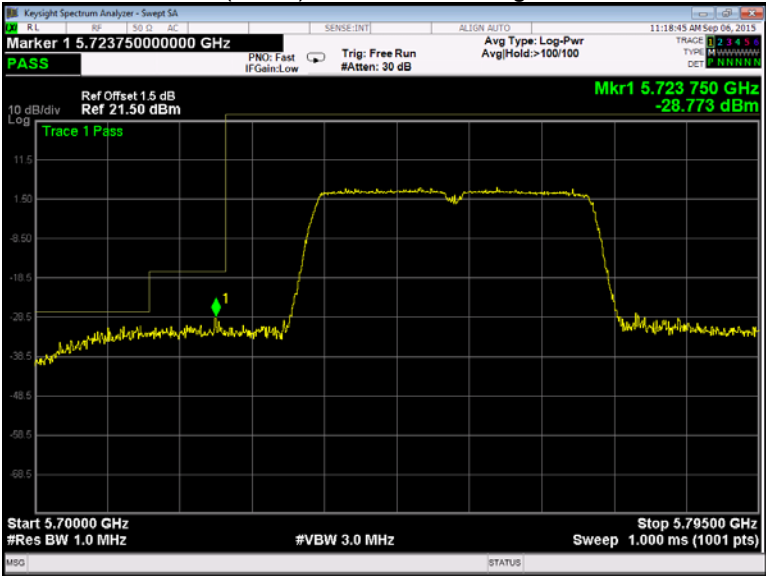
802.11n(HT40) band I Band edge-left side



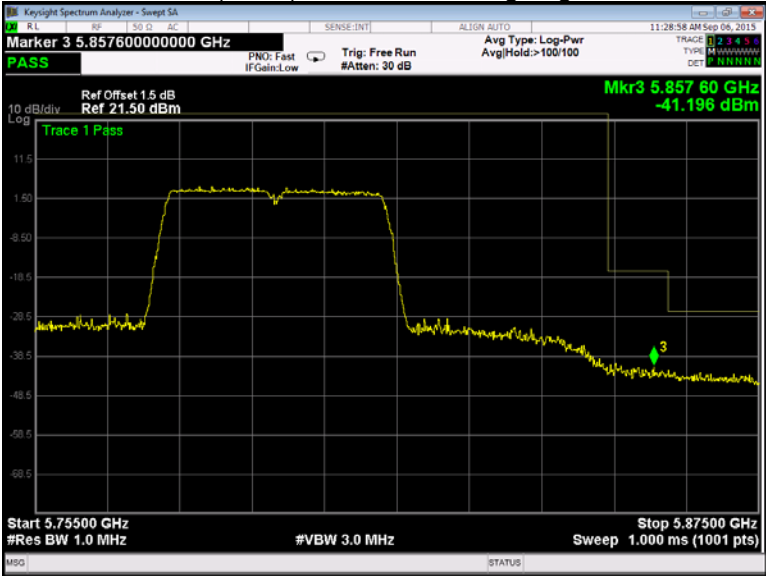
802.11n(HT40) band I Band edge-right side



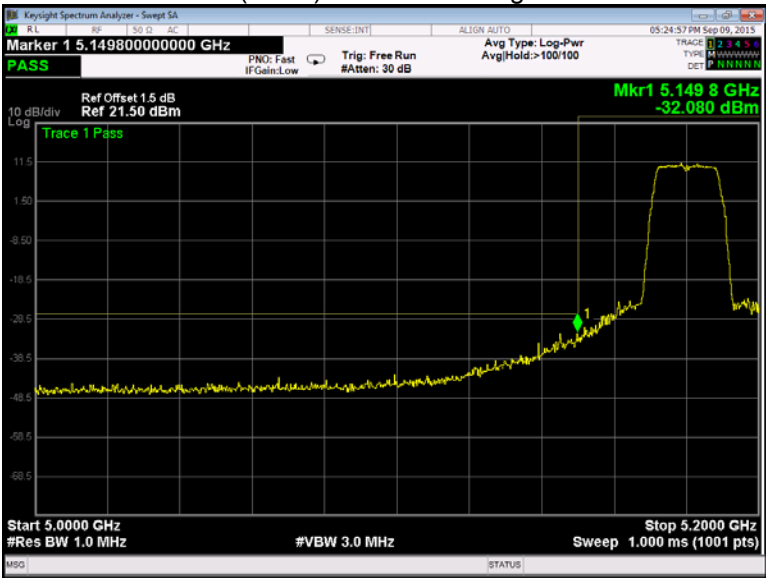
802.11n(HT40) band IV Band edge-left side



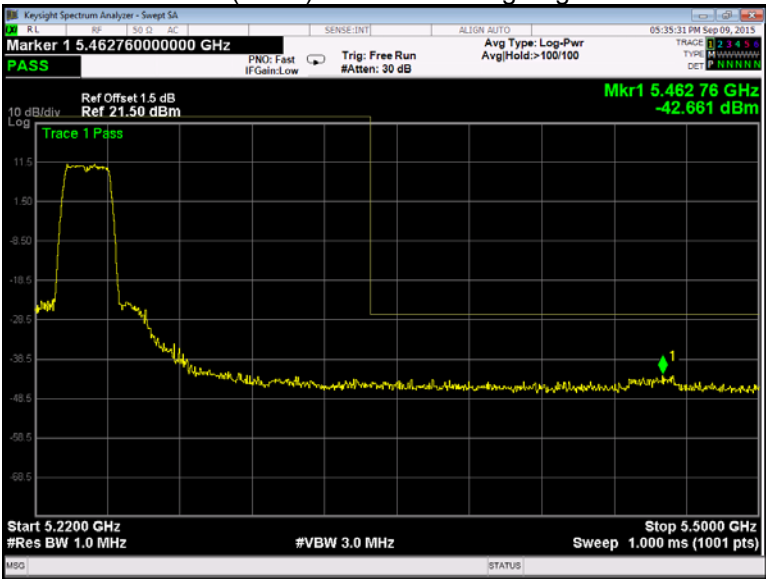
802.11n(HT40) band IV Band edge-right side



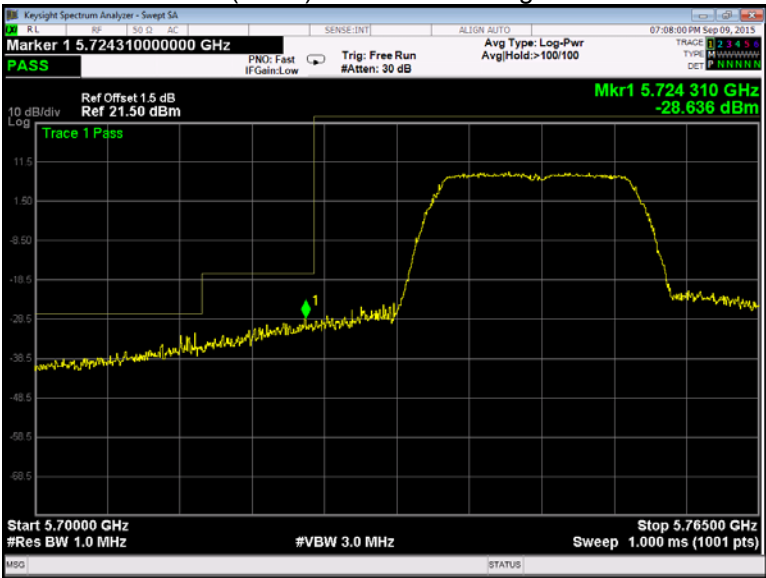
802.11ac(HT20) band I Band edge-left side



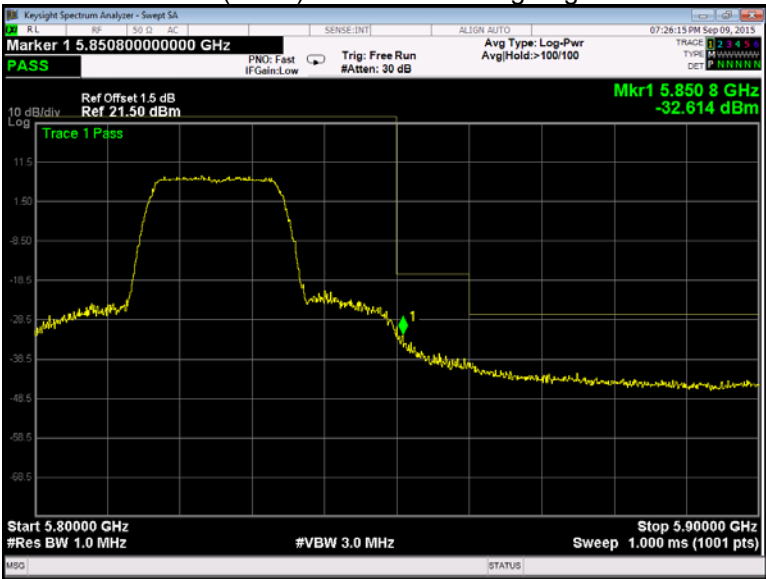
802.11ac(HT20) band I Band edge-right side



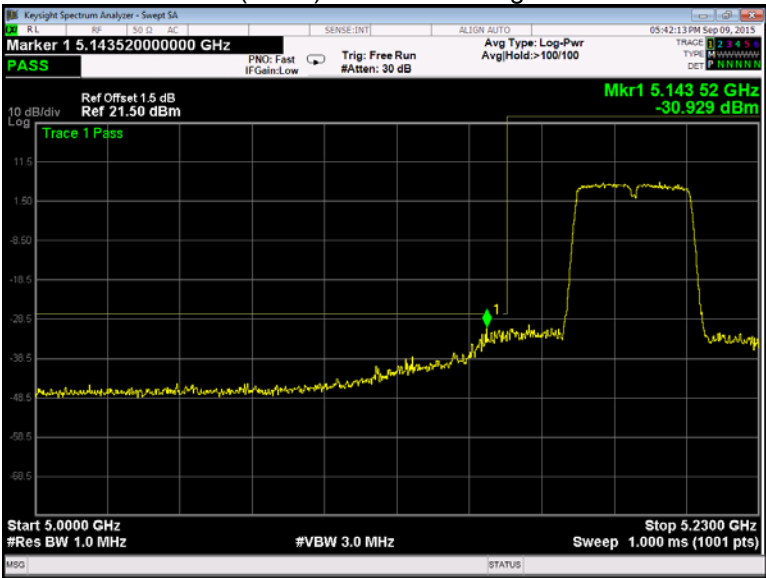
802.11ac(HT20) band IV Band edge-left side



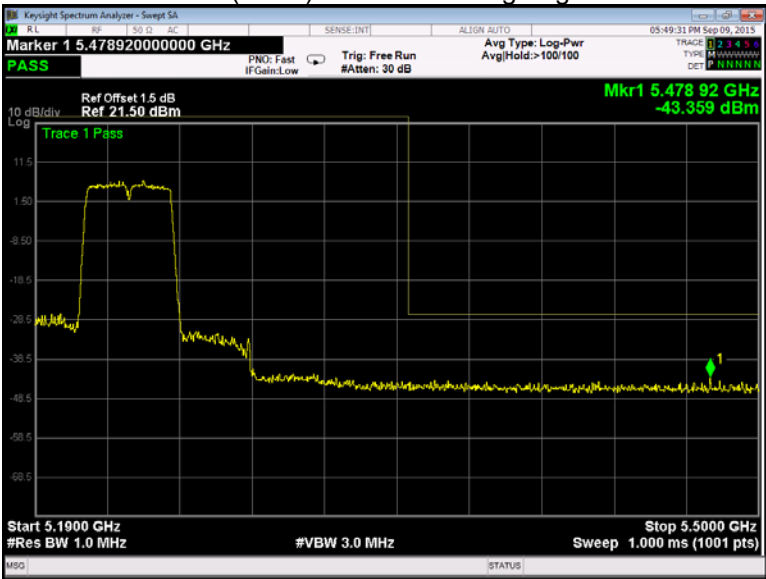
802.11ac(HT20) band IV Band edge-right side



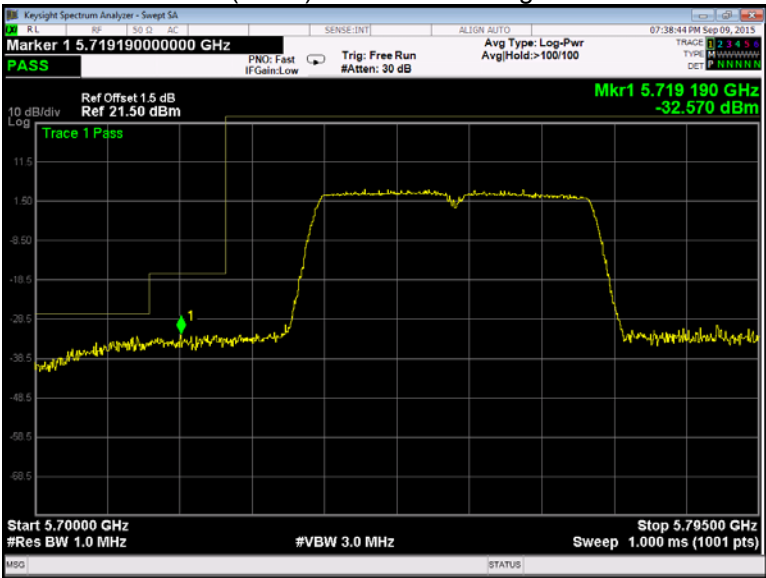
802.11ac(HT40) band I Band edge-left side



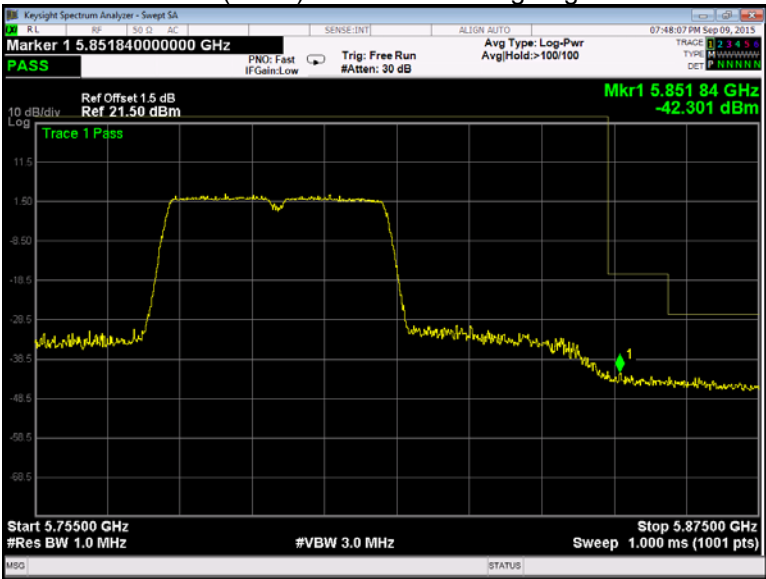
802.11ac(HT40) band I Band edge-right side



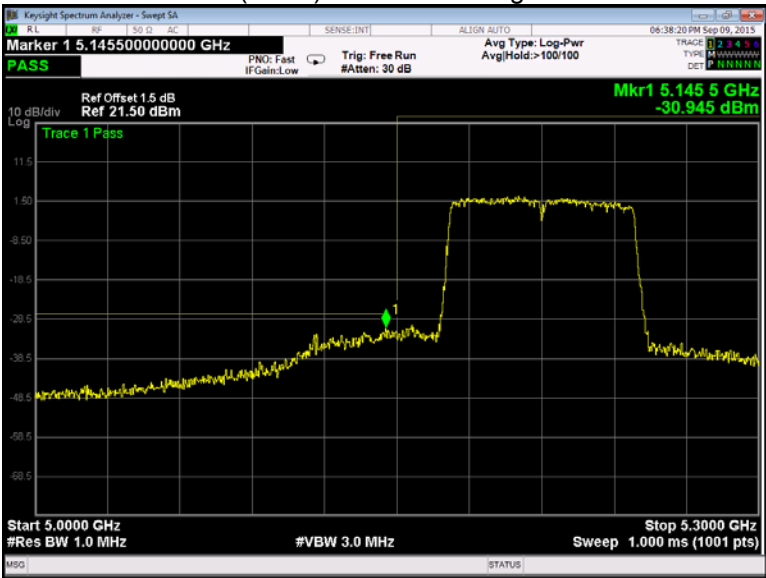
802.11ac(HT40) band IV Band edge-left side



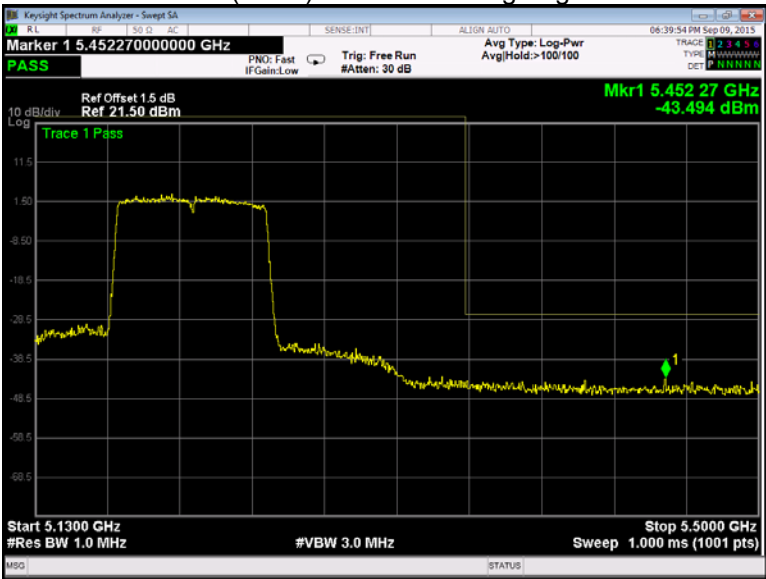
802.11ac(HT40) band IV Band edge-right side



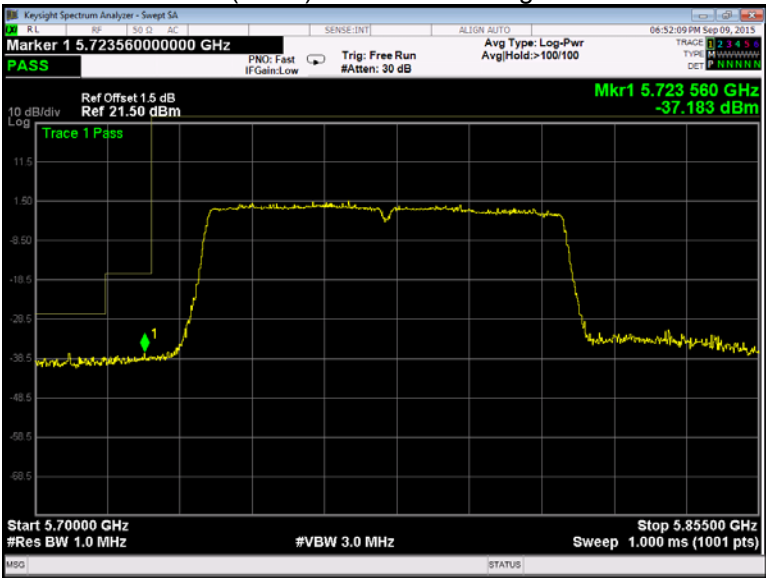
802.11ac(HT80) band I Band edge-left side



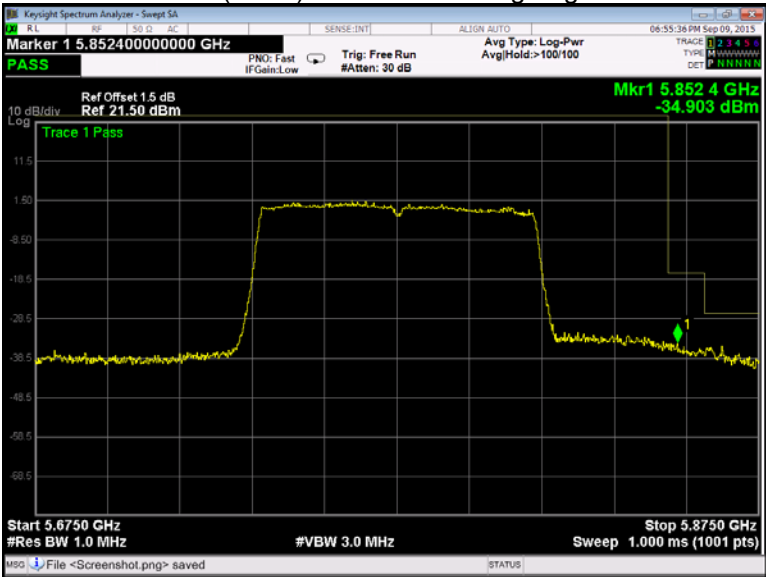
802.11ac(HT80) band I Band edge-right side



802.11ac(HT80) band IV Band edge-left side



802.11ac(HT80) band IV Band edge-right side



## 10 6 dB Bandwidth

Test Requirement: FCC CFR47 Part 15 Section 15.407(e)  
 KDB662911 D01 Multiple Transmitter Output v02r01  
 Test Method: KDB789033 D02 General UNII Test Procedures New Rules v01  
 Section C  
 Test Limit:  $\geq 500$  kHz  
 Test Result: PASS

### 10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 50kHz

### 10.2 Test Result:

| Band                          | Operation mode | 6 dB Bandwidth (MHz) |        |       |
|-------------------------------|----------------|----------------------|--------|-------|
|                               |                | Low                  | Middle | High  |
| <b>ANT0</b><br><b>Band IV</b> | 802.11a        | 16.44                | 16.41  | 16.41 |
|                               | 802.11n(HT20)  | 17.64                | 17.61  | 17.64 |
|                               | 802.11n(HT40)  | 36.42                | /      | 36.42 |
|                               | 802.11ac(HT20) | 17.64                | 17.61  | 17.64 |
|                               | 802.11ac(HT40) | 36.36                | /      | 36.42 |
|                               | 802.11ac(HT80) | 75.84                | /      | /     |
| <b>ANT1</b><br><b>Band IV</b> | 802.11a        | 16.41                | 16.41  | 16.41 |
|                               | 802.11n(HT20)  | 17.61                | 17.61  | 17.64 |
|                               | 802.11n(HT40)  | 36.42                | /      | 36.42 |
|                               | 802.11ac(HT20) | 17.64                | 17.61  | 17.61 |
|                               | 802.11ac(HT40) | 36.24                | /      | 36.48 |
|                               | 802.11ac(HT80) | 75.96                | /      | /     |

Test result plots shown as follows:

ANT0

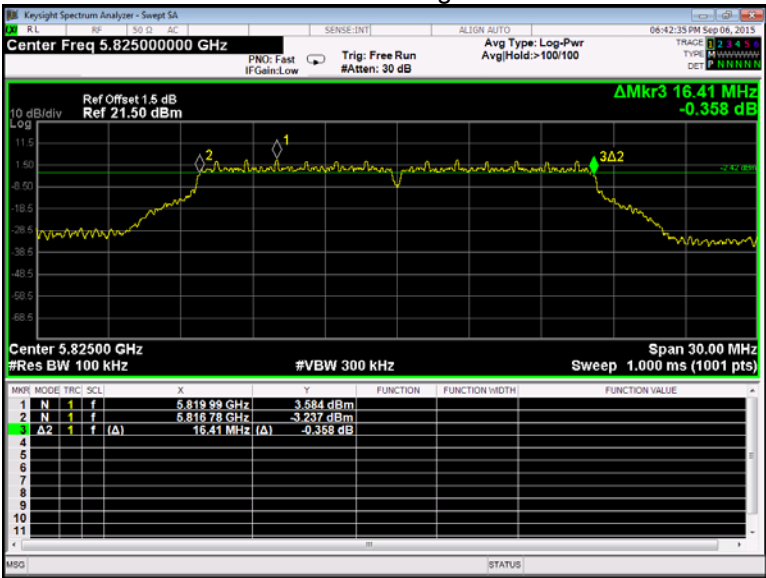
802.11a band IV Low channel



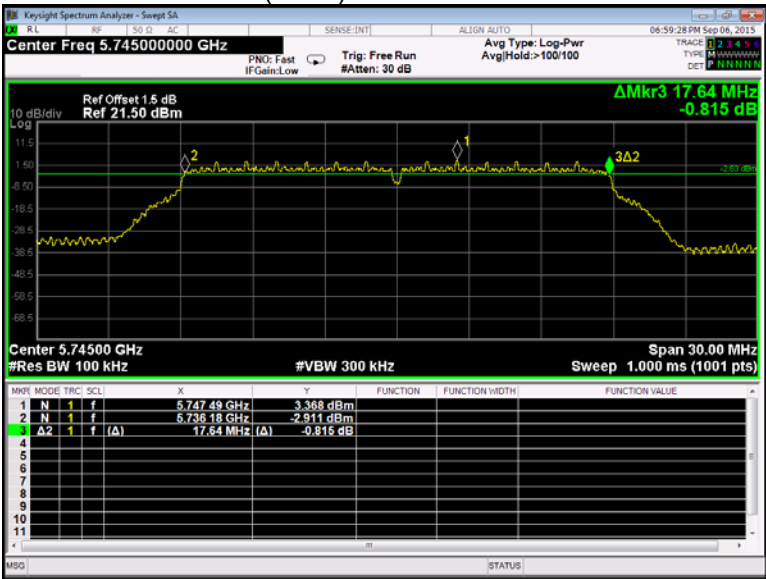
802.11a band IV Middle channel



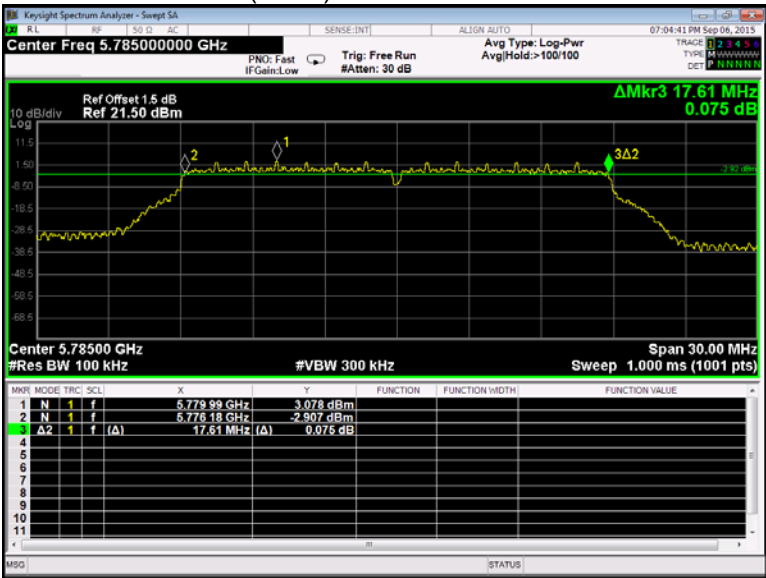
802.11a band IV High channel



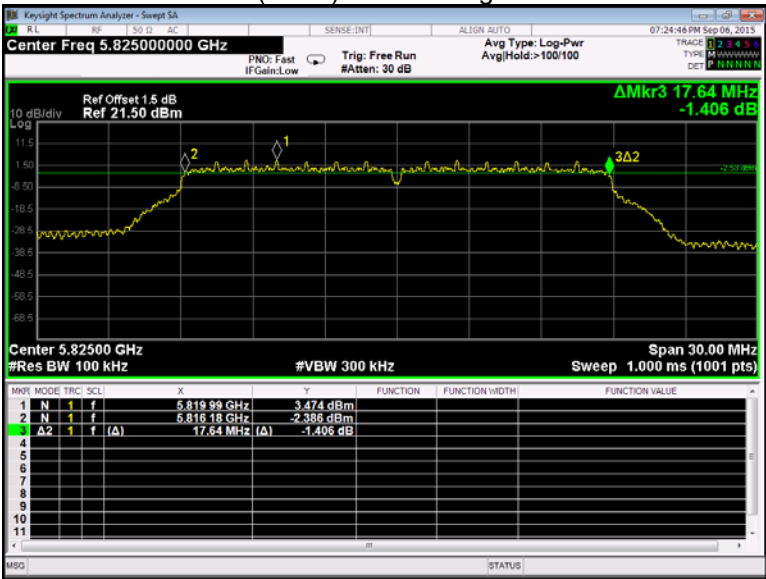
802.11n(HT20) band IV Low channel



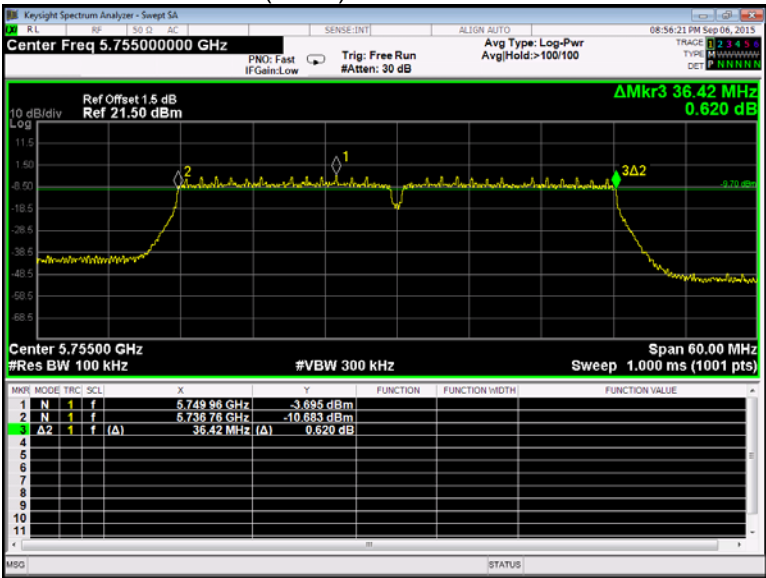
802.11n(HT20) band IV Middle channel



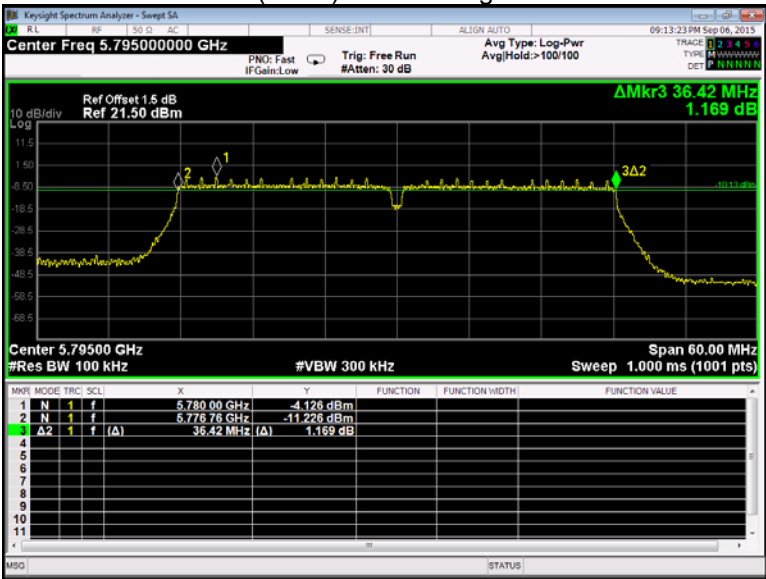
802.11n(HT20) band IV High channel



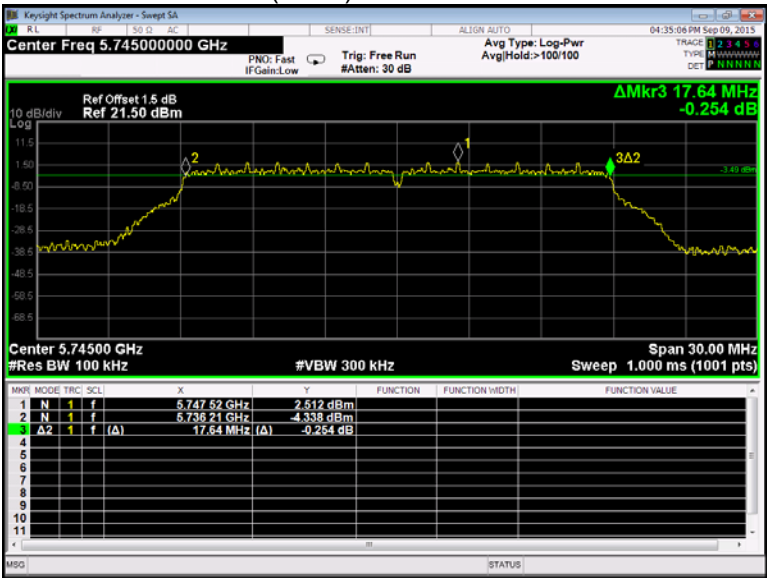
802.11n(HT40) band IV Low channel



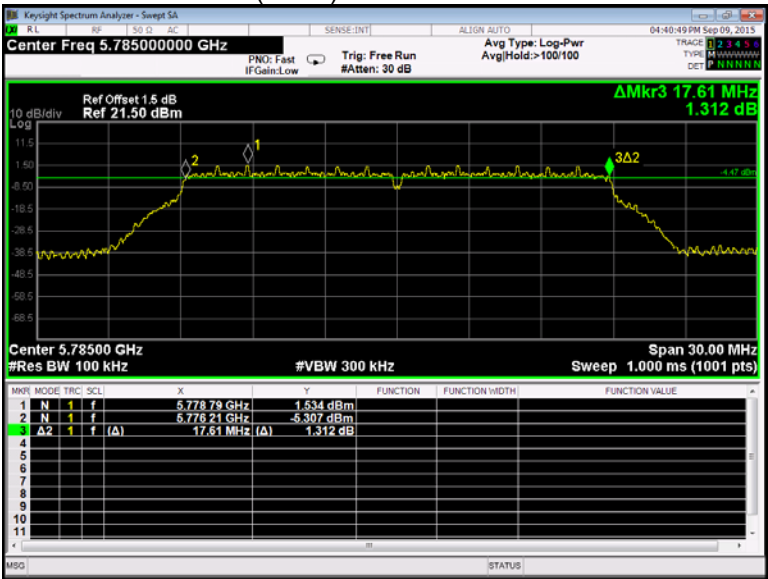
802.11n(HT40) band IV High channel



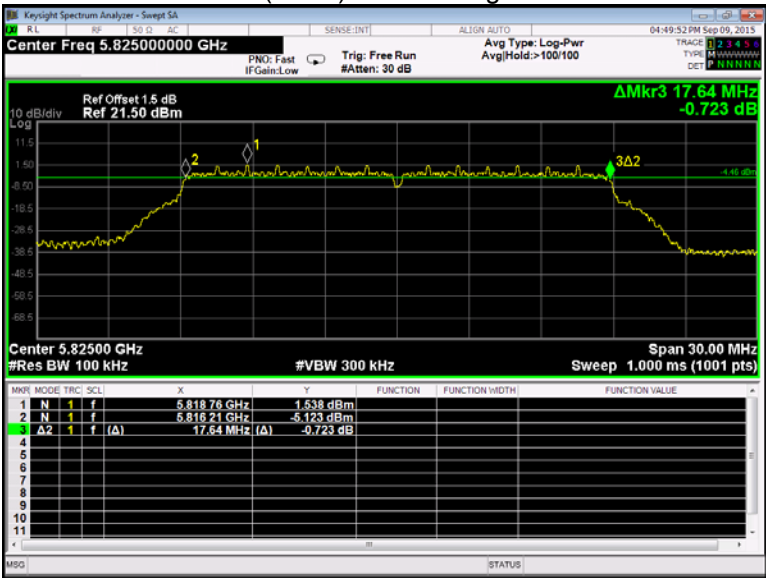
802.11ac(HT20) band IV Low channel



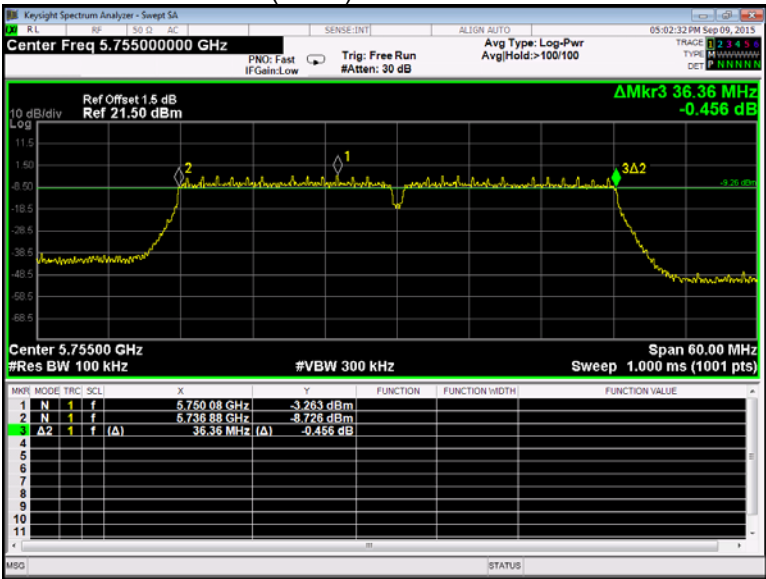
802.11ac(HT20) band IV Middle channel



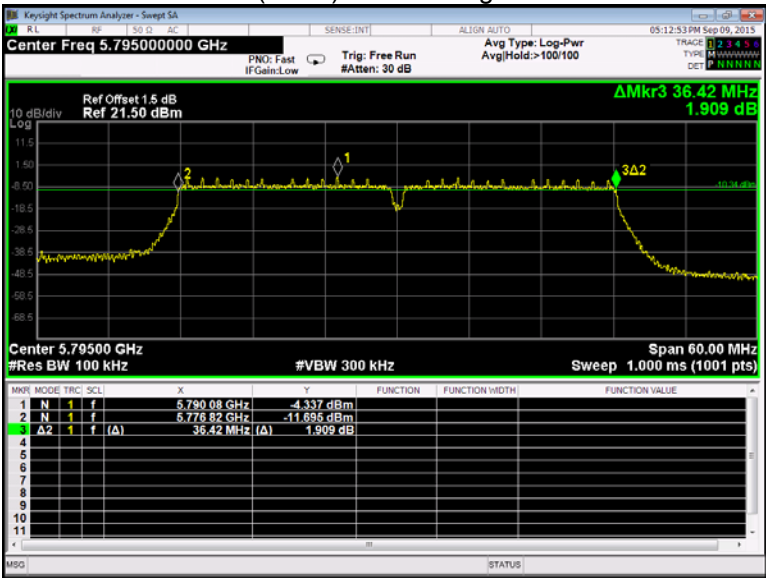
802.11ac(HT20) band IV High channel



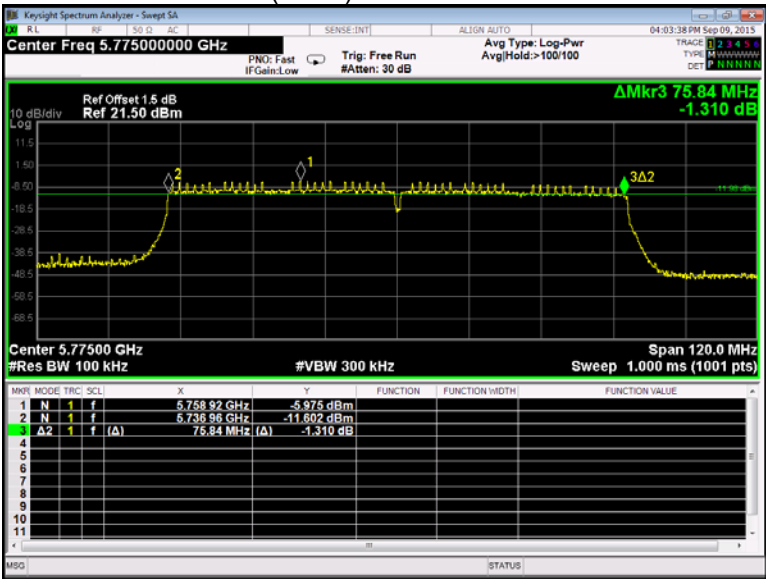
802.11ac(HT40) band IV Low channel



802.11n(HT40) band IV High channel



802.11ac(HT80) band IV Low channel



ANT1

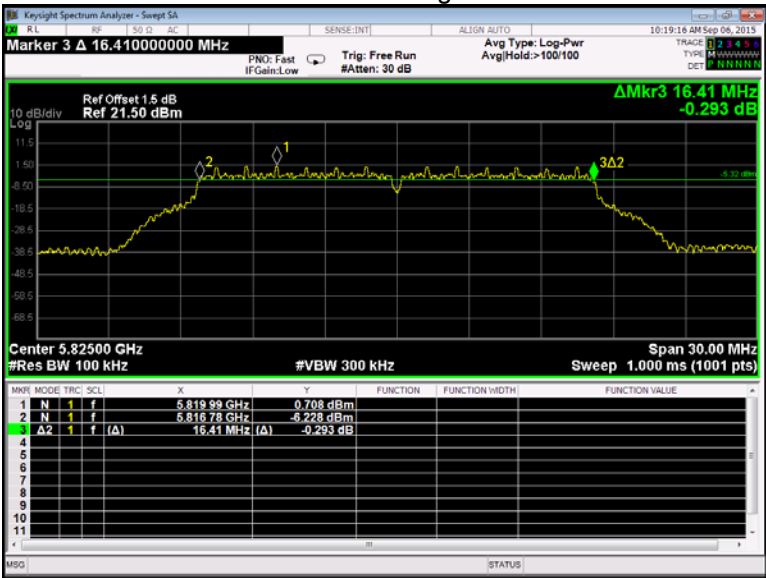
802.11a band IV Low channel



802.11a band IV Middle channel



802.11a band IV High channel



802.11n(HT20) band IV Low channel

