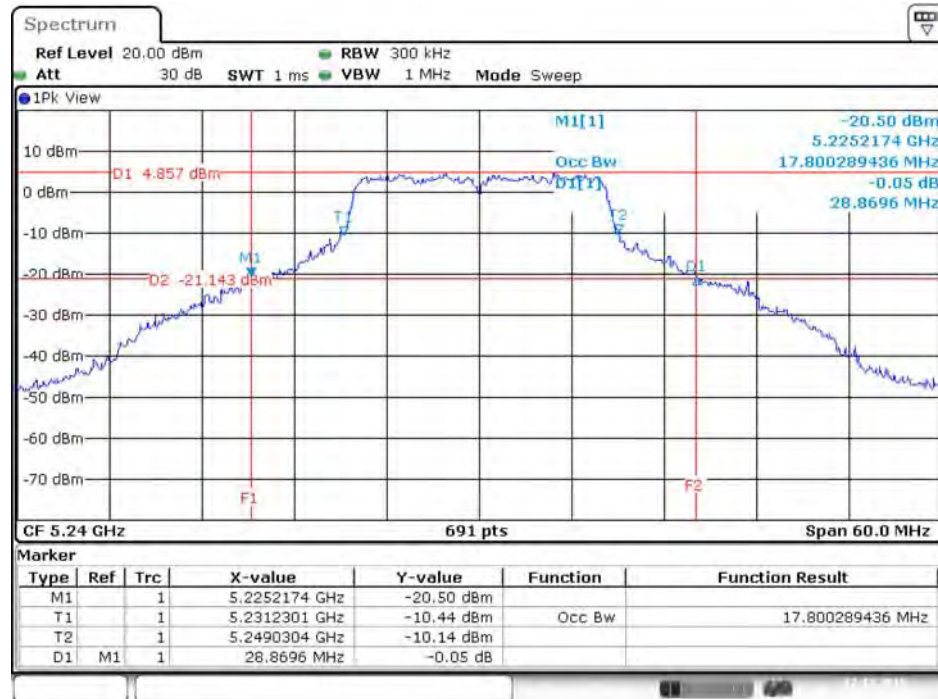
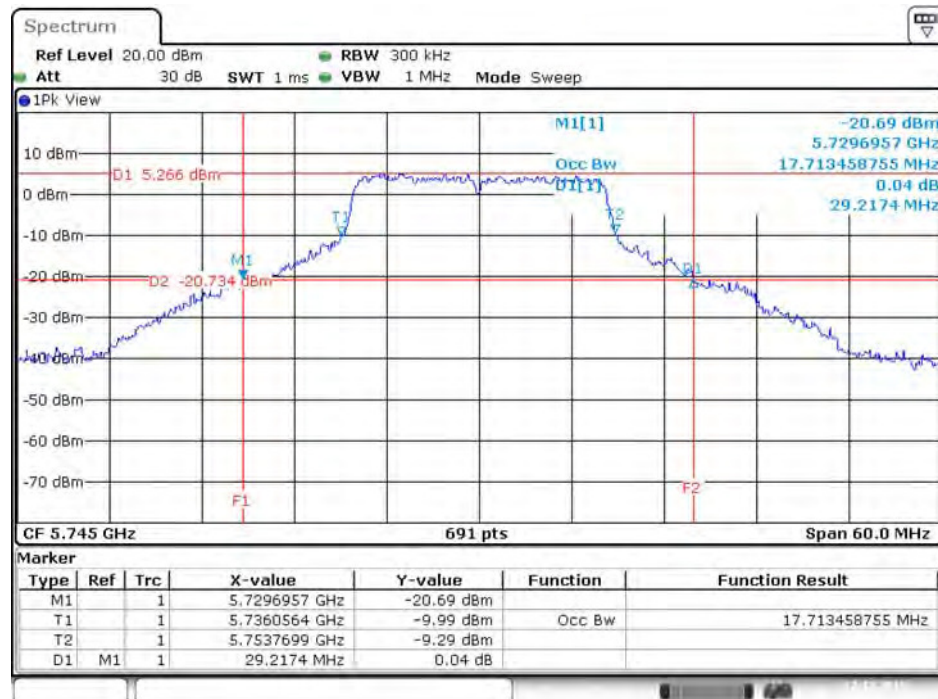


### 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5240 MHz



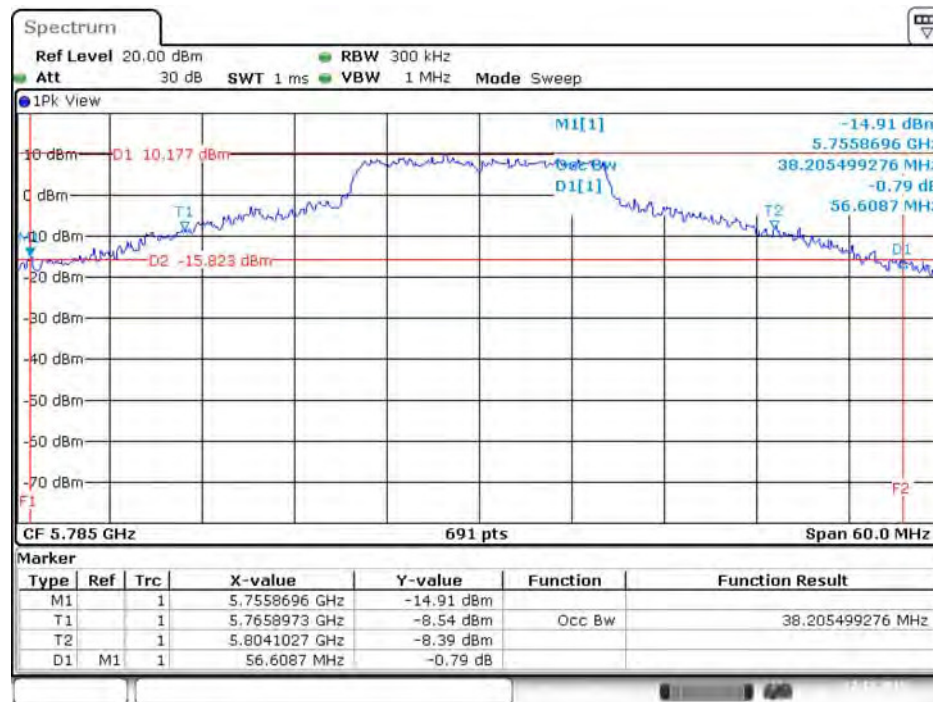
Date: 22.DEC.2015 16:01:05

### 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5745 MHz



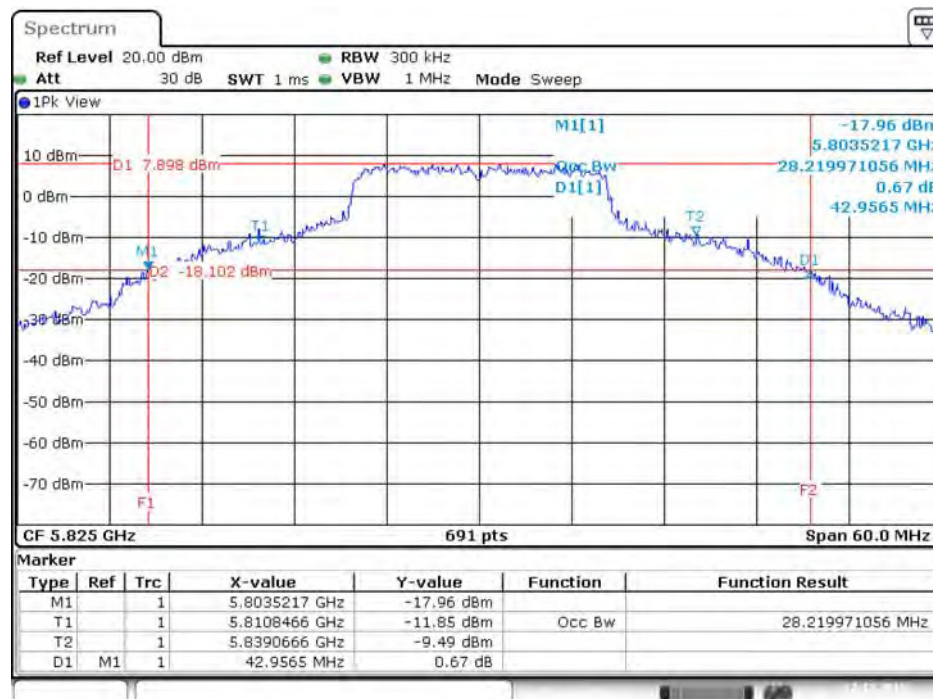
Date: 22.DEC.2015 16:08:00

### 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5785 MHz



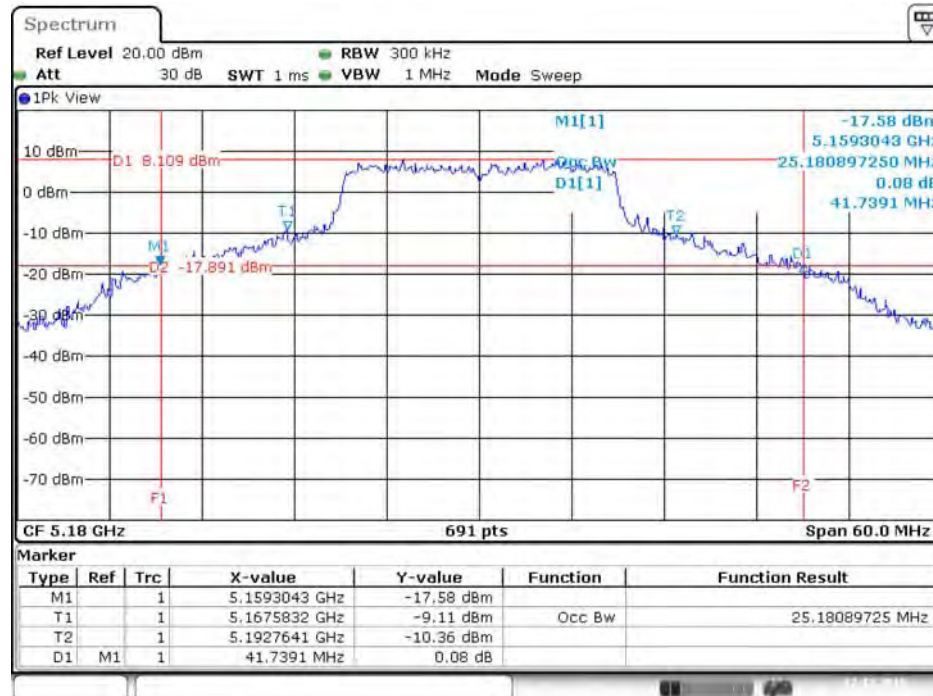
Date: 22.DEC.2015 16:09:32

### 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5825 MHz



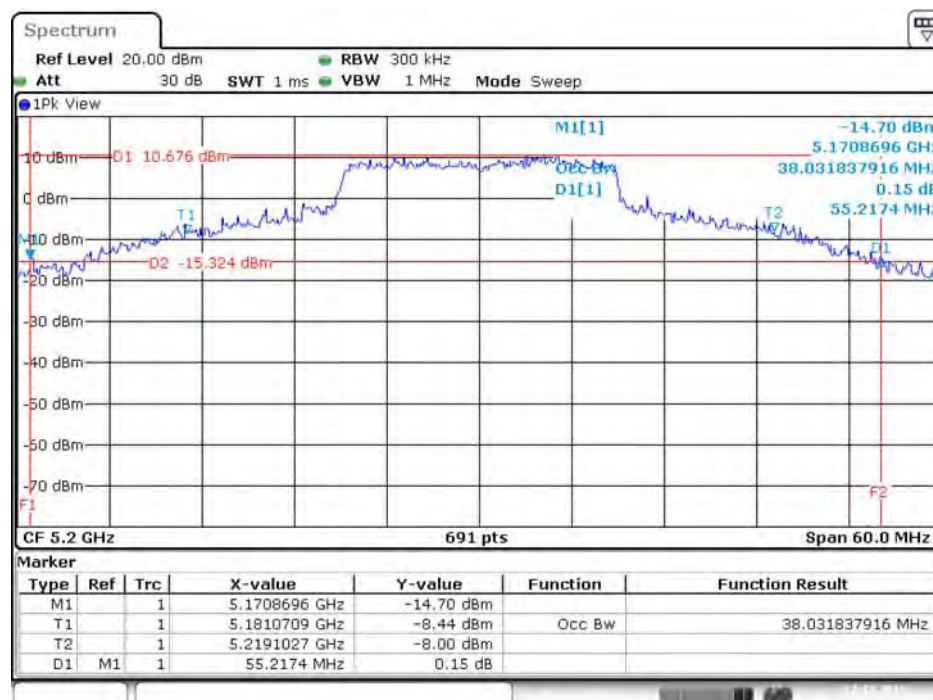
Date: 22.DEC.2015 16:10:49

# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5180 MHz



Date: 22.DEC.2015 16:12:06

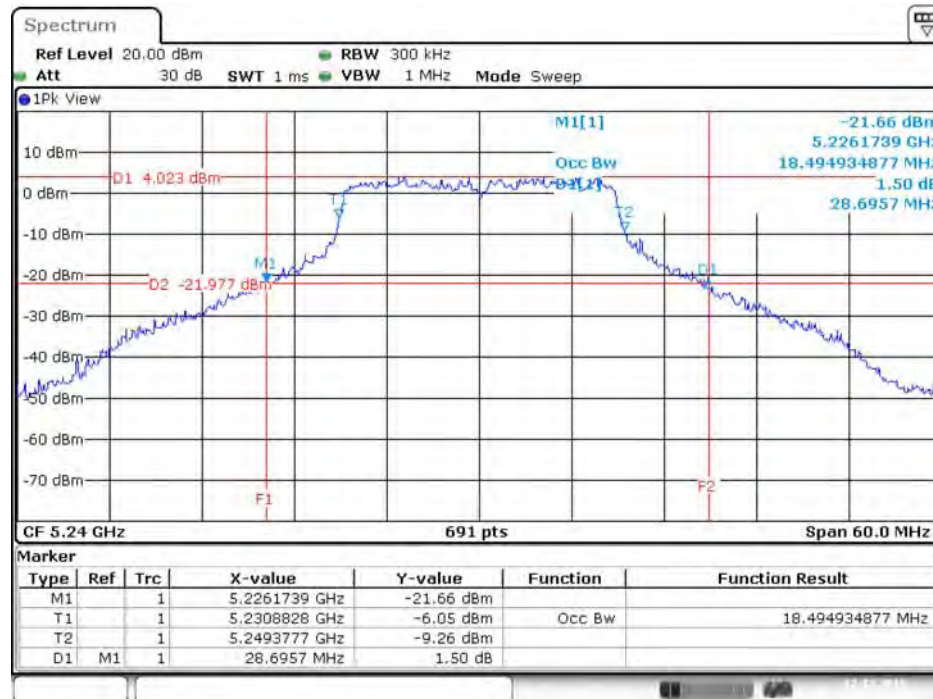
# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5200 MHz



Date: 22.DEC.2015 16:13:27

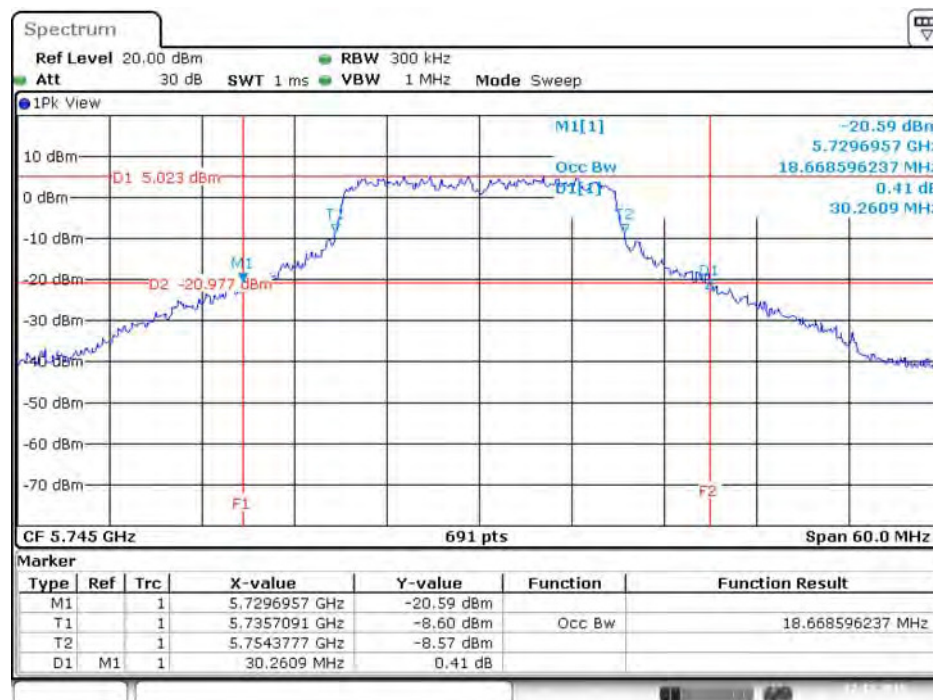


## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5240 MHz



Date: 22.DEC.2015 16:14:28

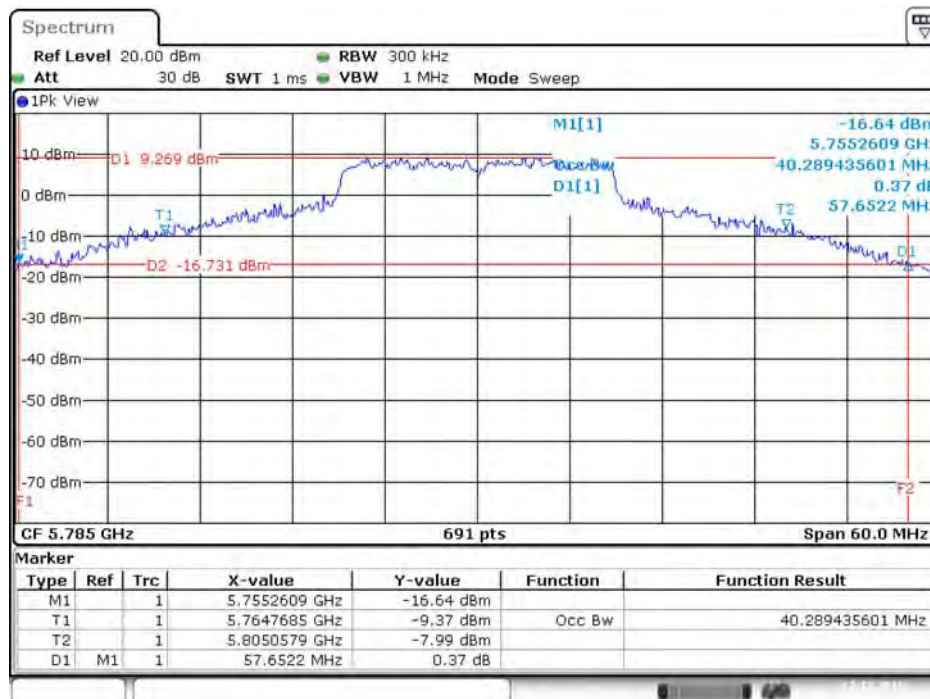
## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5745 MHz



Date: 22.DEC.2015 16:22:03

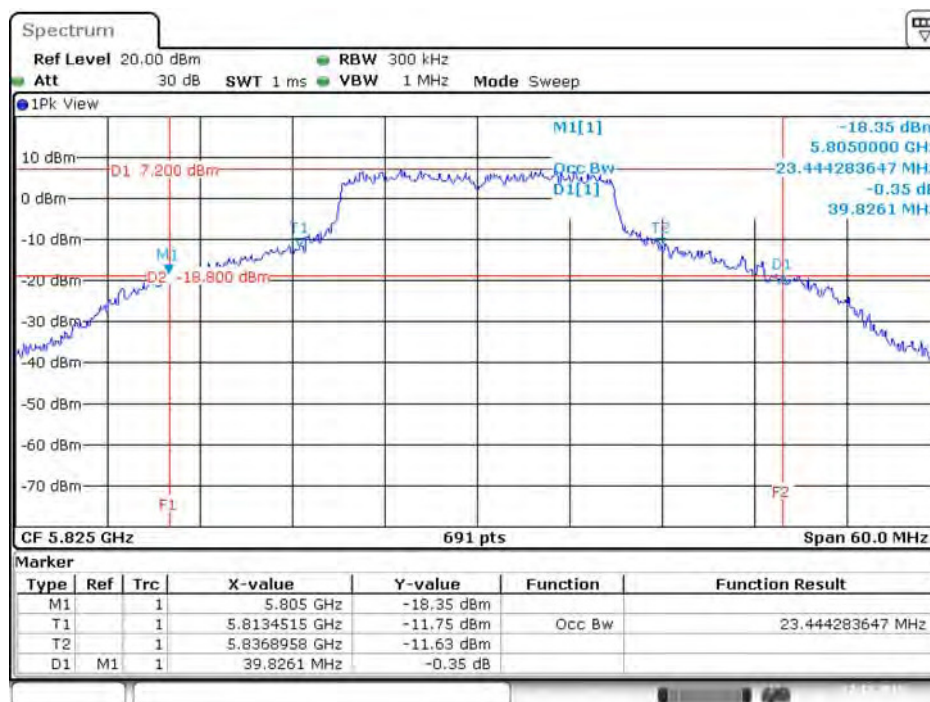


# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5785 MHz



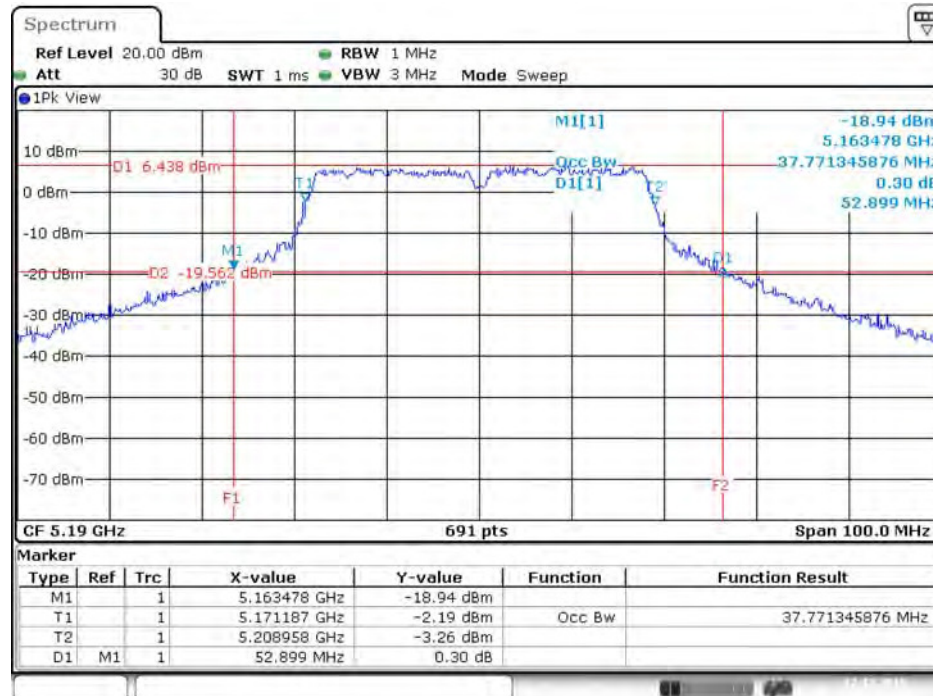
Date: 22.DEC.2015 16:23:04

# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5825 MHz



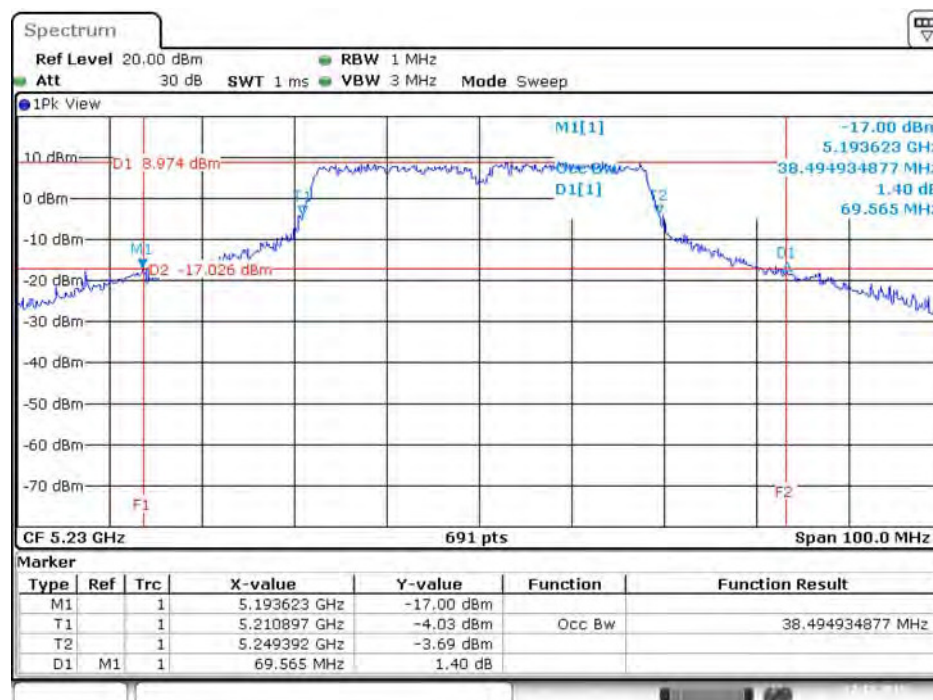
Date: 22.DEC.2015 16:23:52

## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5190 MHz



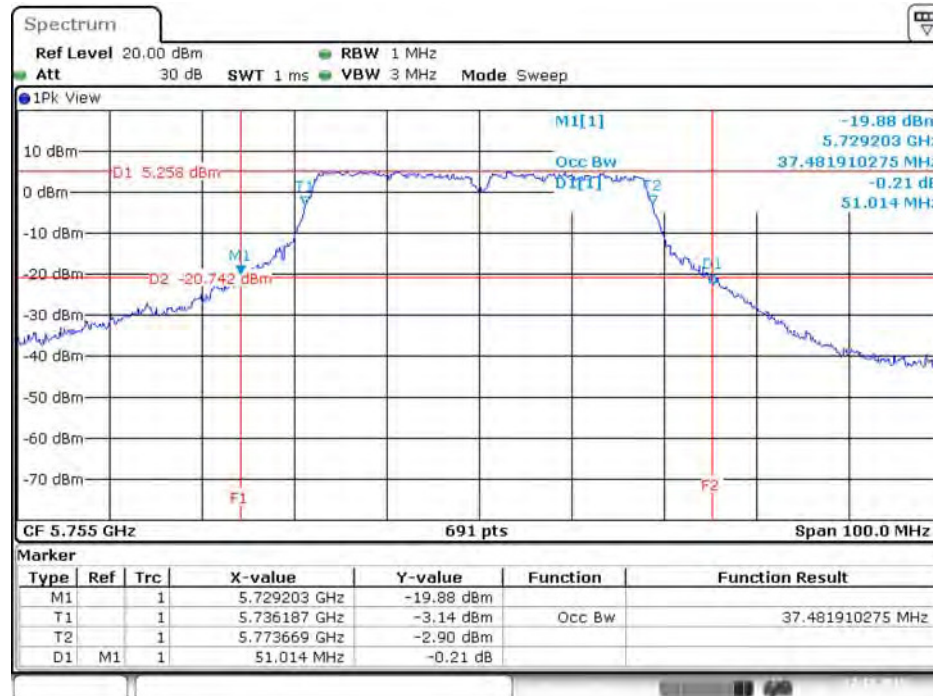
Date: 22.DEC.2015 15:41:49

## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5230 MHz



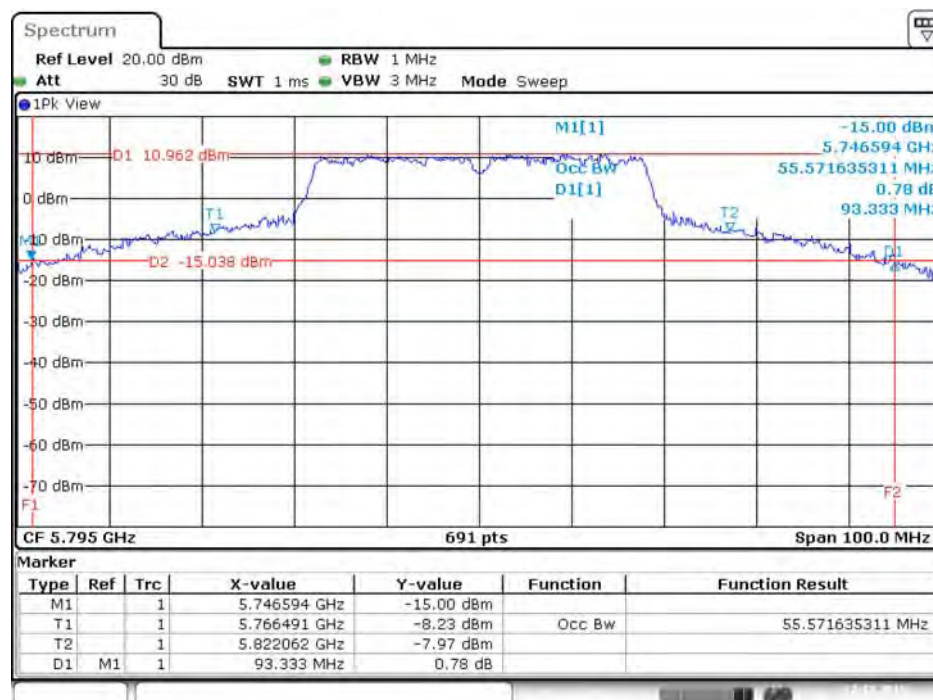
Date: 22.DEC.2015 15:42:48

## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5755 MHz



Date: 22.DEC.2015 15:56:04

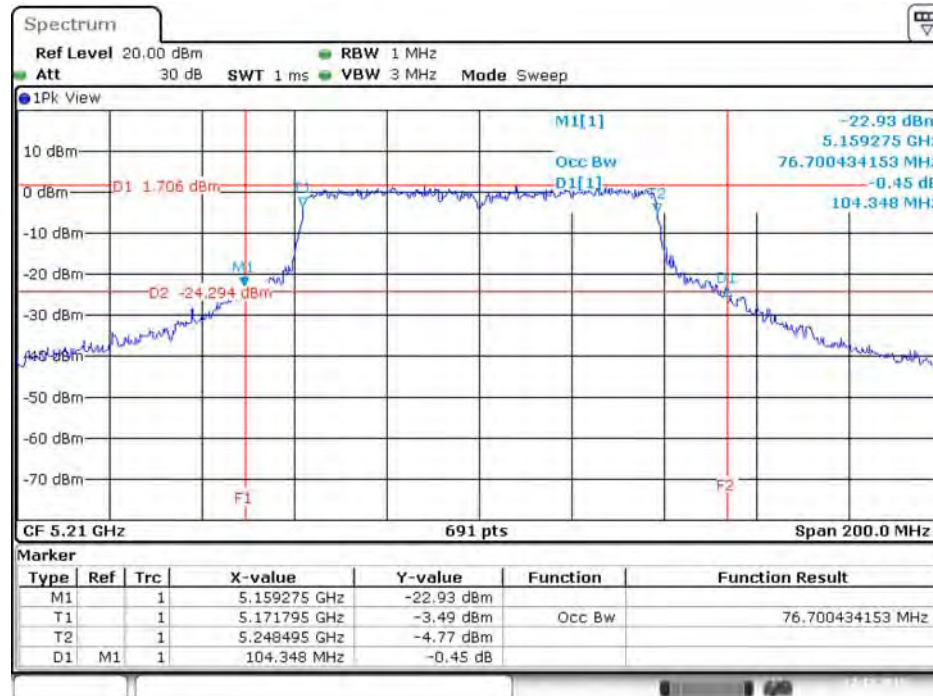
## 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795 MHz



Date: 22.DEC.2015 15:57:10

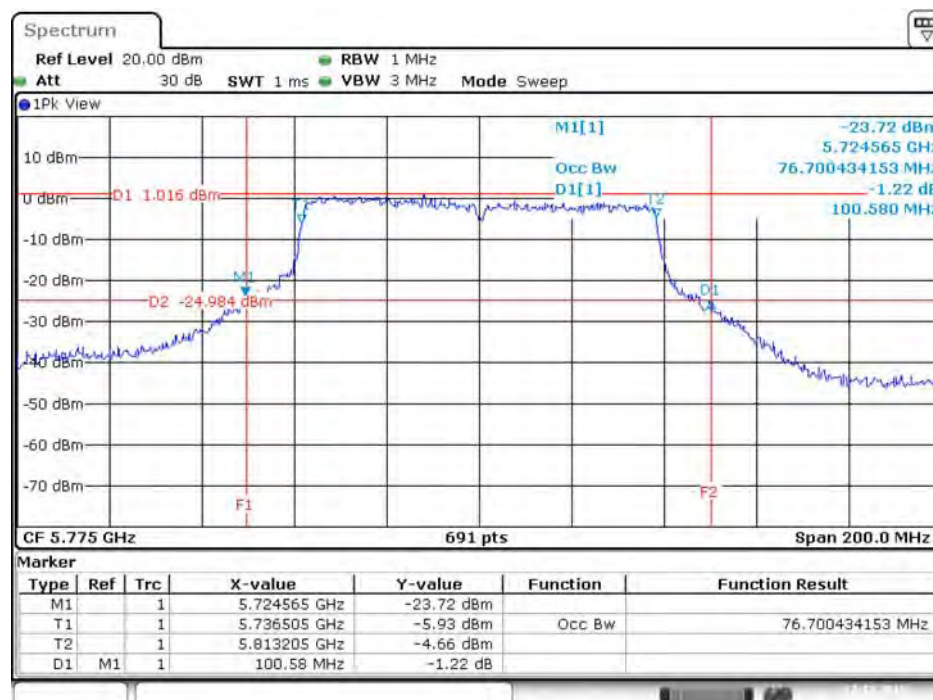


# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5210 MHz



Date: 22.DEC.2015 15:36:35

# 26dB Bandwidth and 99% Occupied Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



Date: 22.DEC.2015 15:30:18

### 4.3. 6dB Spectrum Bandwidth Measurement

#### 4.3.1. Limit

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

#### 4.3.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer.

| 6dB Spectrum Bandwidth |                            |
|------------------------|----------------------------|
| Spectrum Parameters    | Setting                    |
| Attenuation            | Auto                       |
| Span Frequency         | > 6dB Bandwidth            |
| RBW                    | 100kHz                     |
| VBW                    | $\geq 3 \times \text{RBW}$ |
| Detector               | Peak                       |
| Trace                  | Max Hold                   |
| Sweep Time             | Auto                       |

#### 4.3.3. Test Procedures

1. The transmitter was conducted to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB789033 D02 v01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (C) Emission Bandwidth.
3. Multiple antenna system was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. Measurement perform conducted of each port.
5. Measured the spectrum width with power higher than 6dB below carrier.

#### 4.3.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

#### 4.3.5. Test Deviation

There is no deviation with the original standard.

#### 4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.3.7. Test Result of 6dB Spectrum Bandwidth

|               |          |          |     |
|---------------|----------|----------|-----|
| Temperature   | 25°C     | Humidity | 45% |
| Test Engineer | Mars Lin |          |     |

<For Radio 2 Non-beamforming Mode>

| Mode                           | Frequency | 6dB Bandwidth (MHz) |         |         |         | Min. Limit (kHz) | Test Result |
|--------------------------------|-----------|---------------------|---------|---------|---------|------------------|-------------|
|                                |           | Chain 5             | Chain 6 | Chain 7 | Chain 8 |                  |             |
| 802.11a                        | 5745 MHz  | 16.12               | 16.35   | 16.35   | 16.35   | 500              | Complies    |
|                                | 5785 MHz  | 16.35               | 16.35   | 16.23   | 16.52   | 500              | Complies    |
|                                | 5825 MHz  | 16.35               | 16.35   | 16.06   | 16.35   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT20 | 5745 MHz  | 17.62               | 16.58   | 17.62   | 17.28   | 500              | Complies    |
|                                | 5785 MHz  | 17.62               | 17.57   | 17.74   | 17.68   | 500              | Complies    |
|                                | 5825 MHz  | 17.57               | 17.57   | 17.68   | 17.57   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT40 | 5755 MHz  | 35.94               | 36.29   | 35.36   | 35.71   | 500              | Complies    |
|                                | 5795 MHz  | 35.71               | 35.13   | 35.13   | 36.41   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT80 | 5775 MHz  | 75.94               | 75.65   | 75.94   | 75.94   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss4<br>VHT20 | 5745 MHz  | 17.62               | 17.74   | 17.74   | 17.68   | 500              | Complies    |
|                                | 5785 MHz  | 17.74               | 17.68   | 17.74   | 17.74   | 500              | Complies    |
|                                | 5825 MHz  | 17.68               | 17.74   | 17.62   | 17.74   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss4<br>VHT40 | 5755 MHz  | 36.41               | 36.41   | 36.29   | 36.41   | 500              | Complies    |
|                                | 5795 MHz  | 36.41               | 36.29   | 36.41   | 36.41   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss4<br>VHT80 | 5775 MHz  | 76.52               | 76.52   | 76.52   | 76.52   | 500              | Complies    |



| Mode      | Frequency | 6dB Bandwidth (MHz) |         | Min. Limit (kHz) | Test Result |
|-----------|-----------|---------------------|---------|------------------|-------------|
|           |           | Chain 7             | Chain 8 |                  |             |
| 802.11ac  | 5210 MHz  | -                   | -       | 500              | Complies    |
| MCS0/Nss2 | 5775 MHz  | 74.78               | 75.94   |                  |             |
| VHT80+80  |           |                     |         |                  |             |

<For Radio 2 Beamforming Mode>

| Mode                           | Frequency | 6dB Bandwidth (MHz) |         |         |         | Min. Limit (kHz) | Test Result |
|--------------------------------|-----------|---------------------|---------|---------|---------|------------------|-------------|
|                                |           | Chain 5             | Chain 6 | Chain 7 | Chain 8 |                  |             |
| 802.11ac<br>MCS0/Nss1<br>VHT20 | 5745 MHz  | 17.62               | 17.57   | 17.51   | 17.62   | 500              | Complies    |
|                                | 5785 MHz  | 17.62               | 17.68   | 17.16   | 17.62   | 500              | Complies    |
|                                | 5825 MHz  | 17.62               | 17.62   | 17.62   | 17.57   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT40 | 5755 MHz  | 35.71               | 35.71   | 35.36   | 35.36   | 500              | Complies    |
|                                | 5795 MHz  | 35.83               | 35.36   | 36.41   | 34.78   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT80 | 5775 MHz  | 75.94               | 76.52   | 76.52   | 75.94   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss2<br>VHT20 | 5745 MHz  | 17.62               | 17.62   | 17.62   | 17.68   | 500              | Complies    |
|                                | 5785 MHz  | 17.62               | 17.33   | 17.62   | 17.62   | 500              | Complies    |
|                                | 5825 MHz  | 17.62               | 17.62   | 17.62   | 17.62   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss2<br>VHT40 | 5755 MHz  | 35.94               | 35.94   | 35.94   | 35.94   | 500              | Complies    |
|                                | 5795 MHz  | 35.94               | 35.94   | 35.94   | 35.94   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss2<br>VHT80 | 5775 MHz  | 75.94               | 75.94   | 75.94   | 75.94   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss3<br>VHT20 | 5745 MHz  | 17.68               | 17.74   | 17.74   | 17.80   | 500              | Complies    |
|                                | 5785 MHz  | 17.68               | 17.74   | 17.68   | 17.57   | 500              | Complies    |
|                                | 5825 MHz  | 17.62               | 17.68   | 17.57   | 17.68   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss3<br>VHT40 | 5755 MHz  | 36.41               | 36.41   | 36.06   | 35.36   | 500              | Complies    |
|                                | 5795 MHz  | 36.41               | 36.41   | 36.06   | 35.71   | 500              | Complies    |
| 802.11ac<br>MCS0/Nss3<br>VHT80 | 5775 MHz  | 76.52               | 76.52   | 75.65   | 75.65   | 500              | Complies    |

| Mode      | Frequency | 6dB Bandwidth (MHz) |         | Min. Limit (kHz) | Test Result |
|-----------|-----------|---------------------|---------|------------------|-------------|
|           |           | Chain 7             | Chain 8 |                  |             |
| 802.11ac  | 5210 MHz  | -                   | -       | 500              | Complies    |
| MCS0/Nss2 | 5775 MHz  | 75.36               | 75.94   |                  |             |
| VHT80+80  |           |                     |         |                  |             |

<For Radio 3 Mode>

| Mode                           | Frequency | 6dB Bandwidth (MHz) | Min. Limit (kHz) | Test Result |
|--------------------------------|-----------|---------------------|------------------|-------------|
| 802.11a                        | 5745 MHz  | 16.00               | 500              | Complies    |
|                                | 5785 MHz  | 16.35               | 500              | Complies    |
|                                | 5825 MHz  | 15.88               | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT20 | 5745 MHz  | 16.46               | 500              | Complies    |
|                                | 5785 MHz  | 17.62               | 500              | Complies    |
|                                | 5825 MHz  | 17.51               | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT40 | 5755 MHz  | 35.71               | 500              | Complies    |
|                                | 5795 MHz  | 35.36               | 500              | Complies    |
| 802.11ac<br>MCS0/Nss1<br>VHT80 | 5775 MHz  | 75.94               | 500              | Complies    |

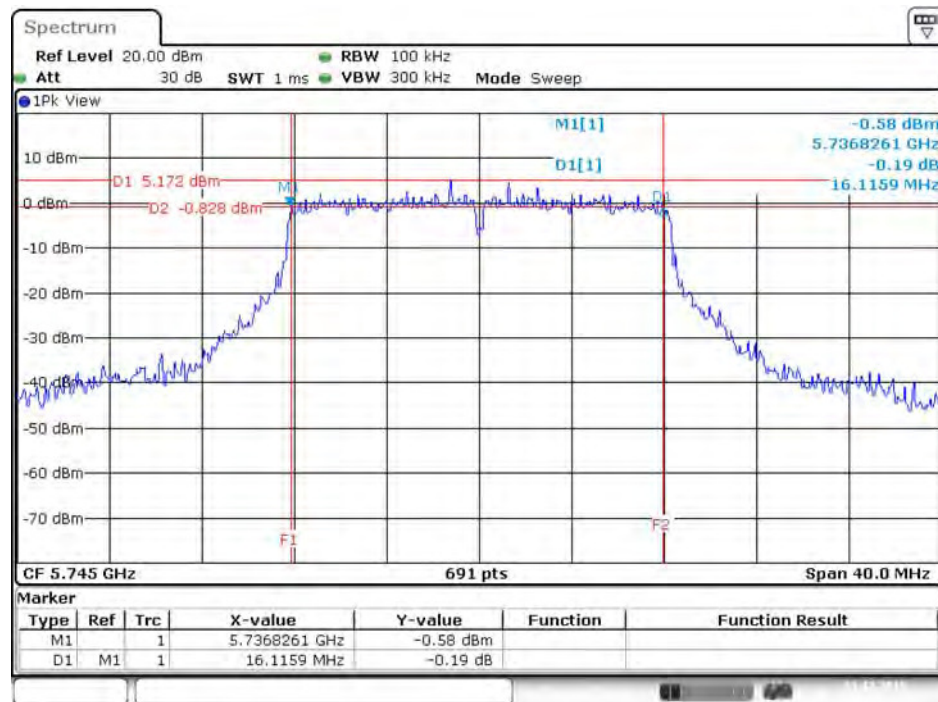
Note: All the test values were listed in the report.

For plots, only the channel with worse result was shown.



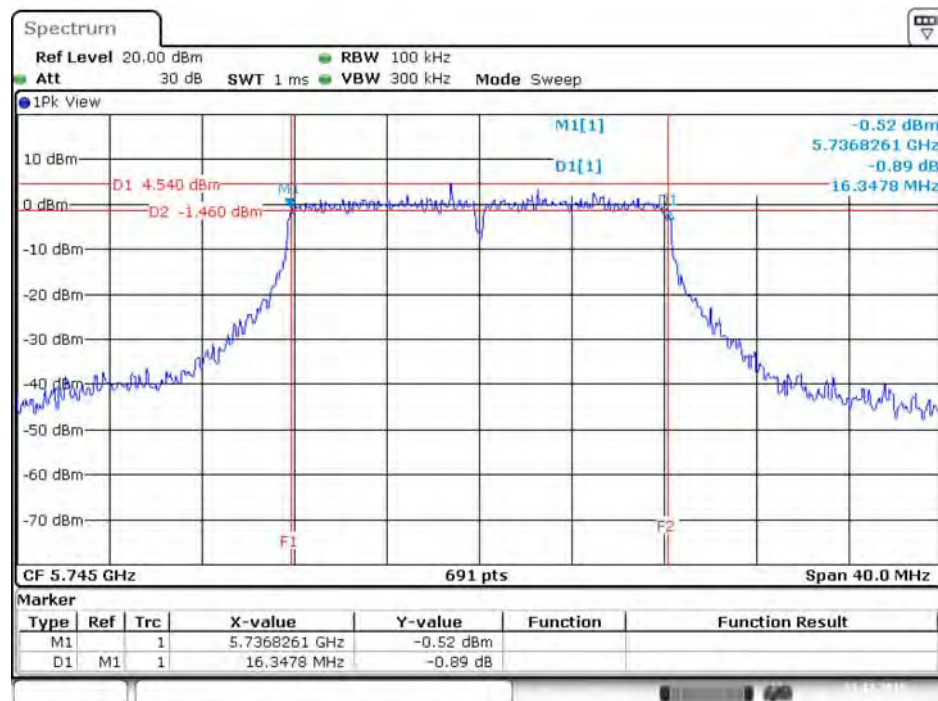
<For Radio 2 Non-beamforming Mode>

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 5 / 5745 MHz



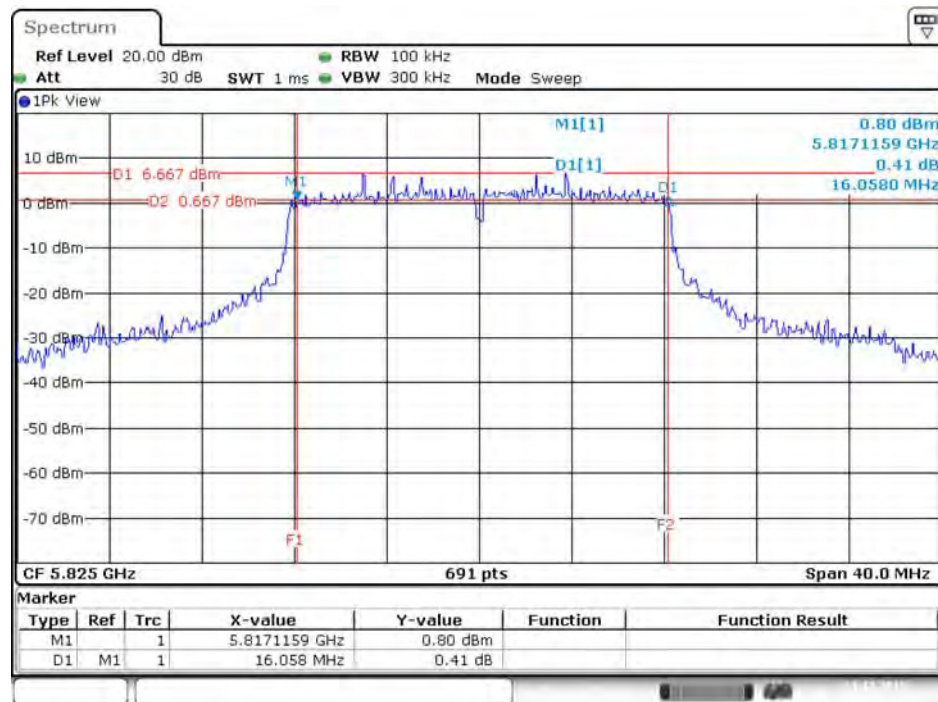
Date: 21.DEC.2015 18:21:12

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 6 / 5745 MHz



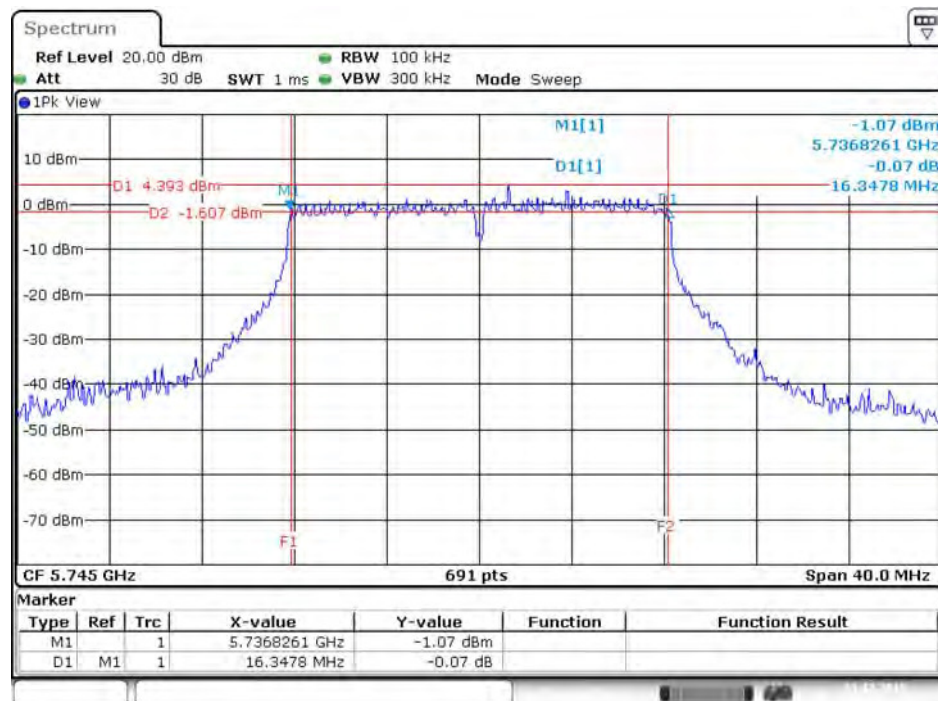
Date: 21.DEC.2015 18:20:57

### 6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 7 / 5825 MHz



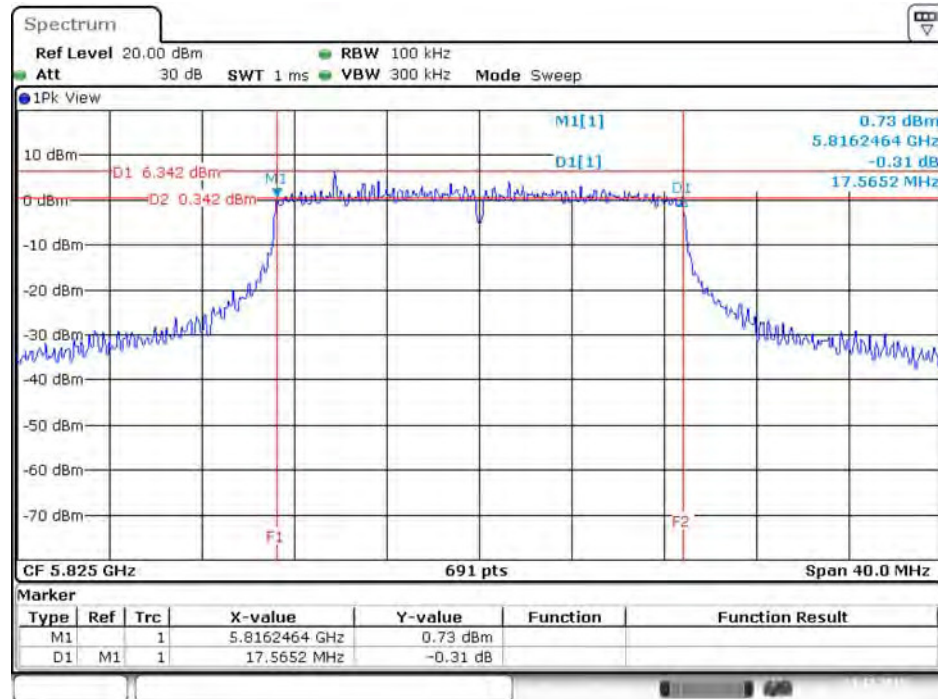
Date: 21.DEC.2015 18:08:35

### 6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 8 / 5745 MHz

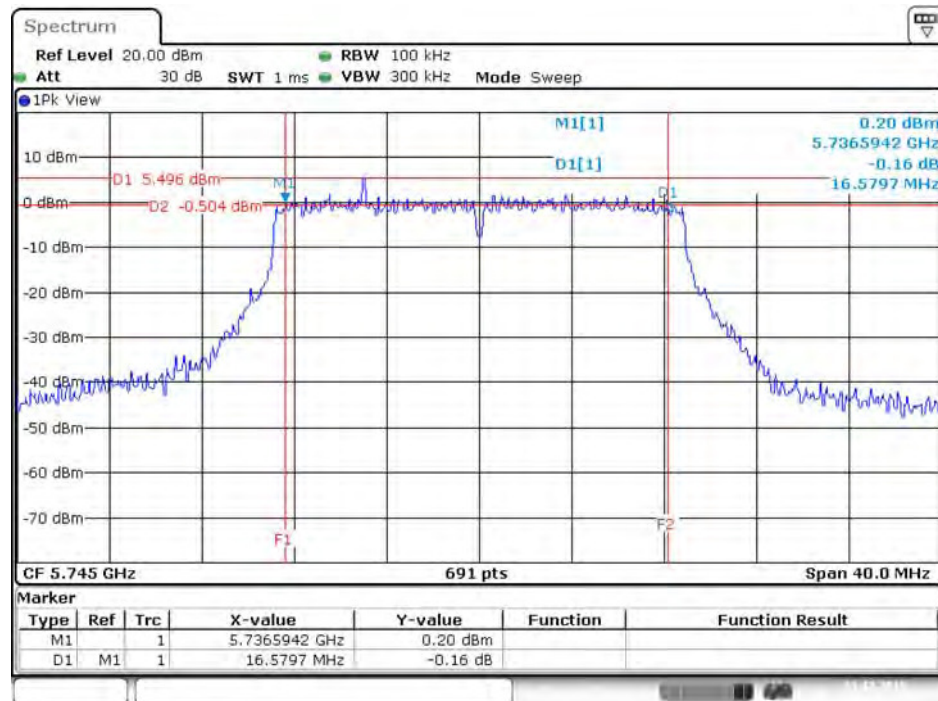


Date: 21.DEC.2015 18:20:19

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 / 5825 MHz

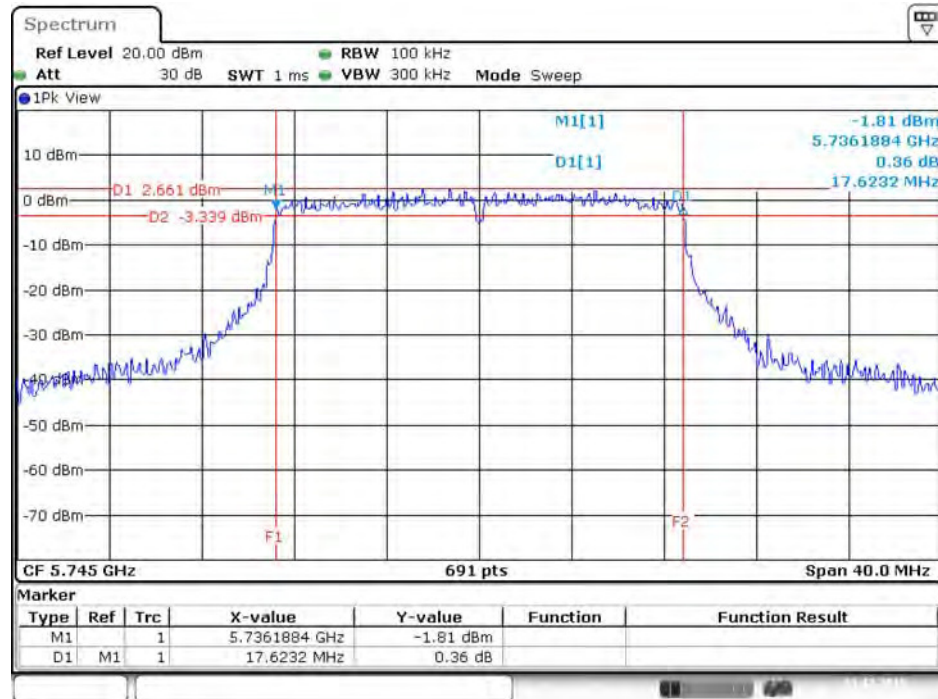


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 6 / 5745 MHz



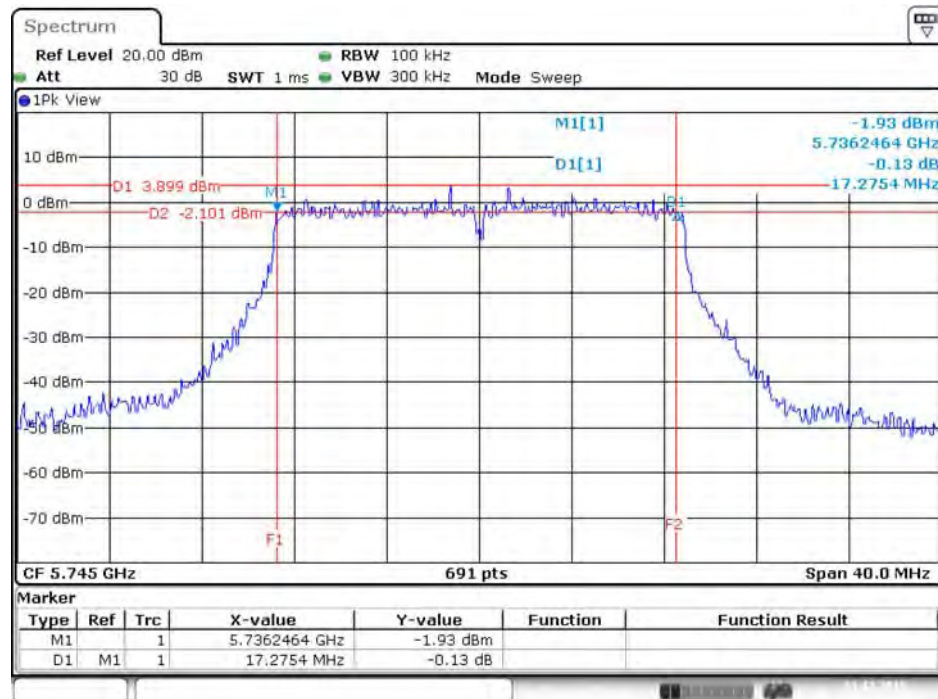


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 7 / 5745 MHz



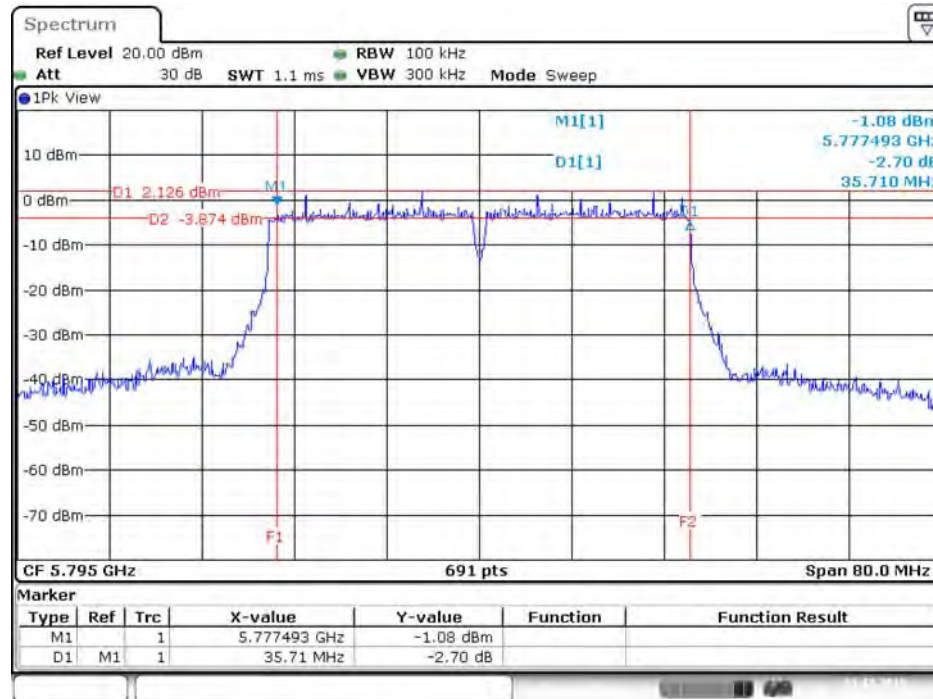
Date: 21.DEC.2015 17:41:28

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 8 / 5745 MHz



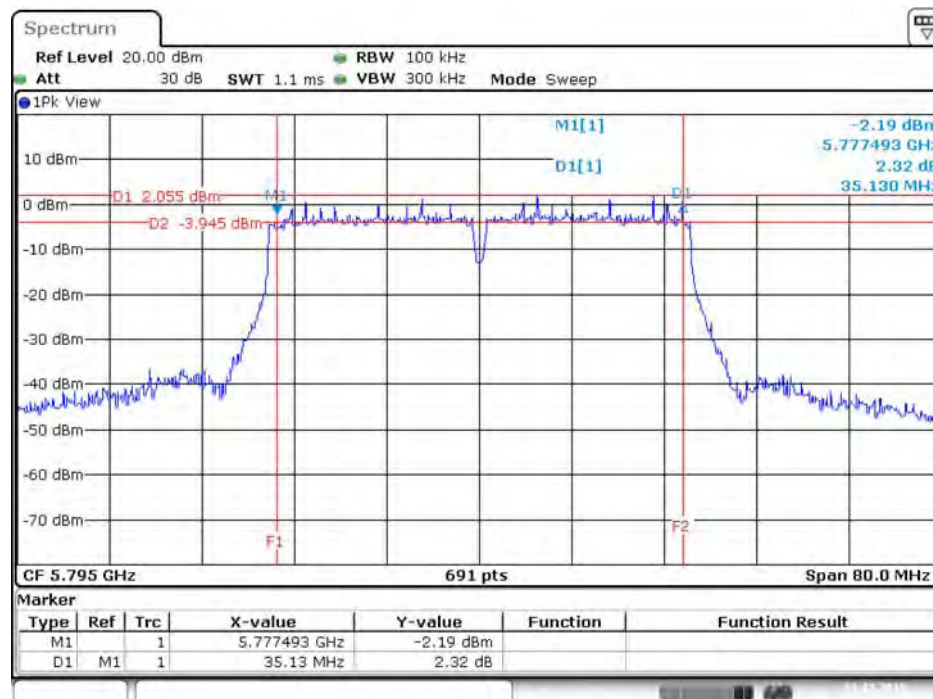
Date: 21.DEC.2015 17:41:46

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 / 5795MHz



Date: 21.DEC.2015 17:37:36

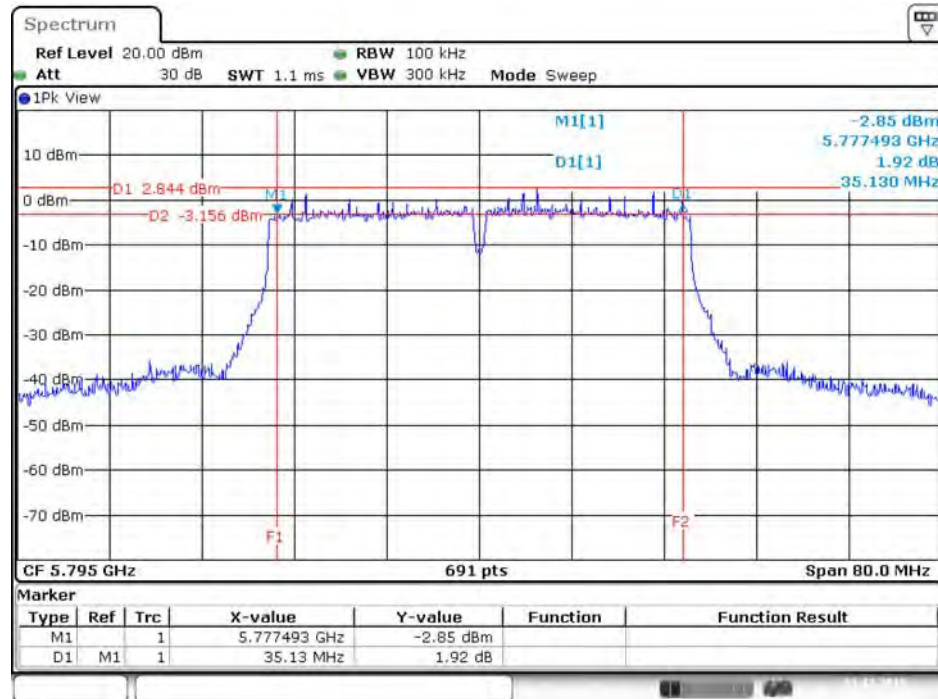
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 6 / 5795MHz



Date: 21.DEC.2015 17:37:06

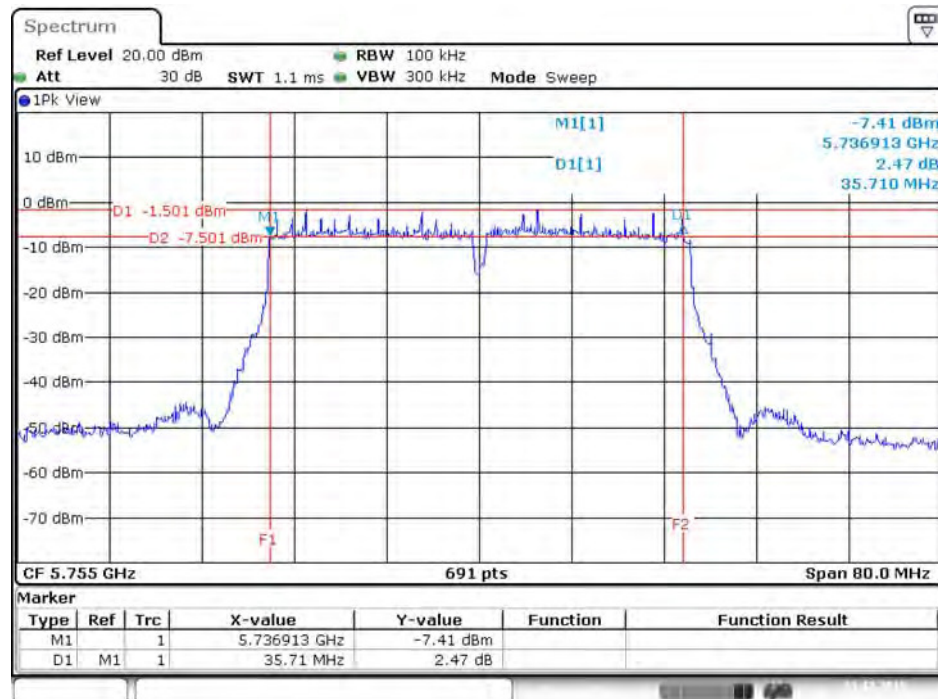


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 7 / 5795MHz



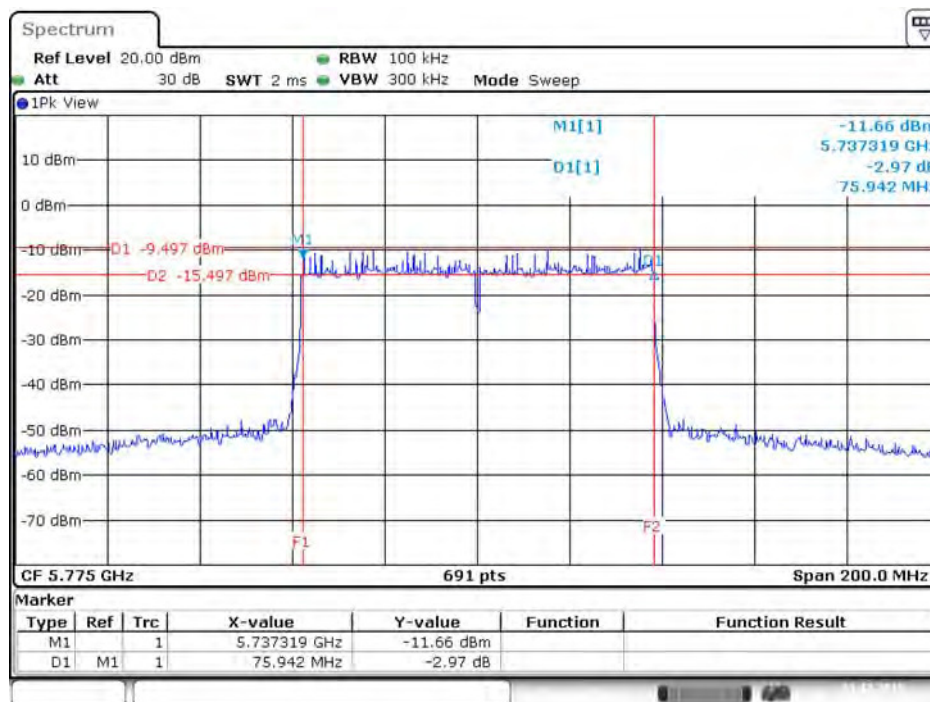
Date: 21.DEC.2015 17:36:41

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 8 / 5755MHz



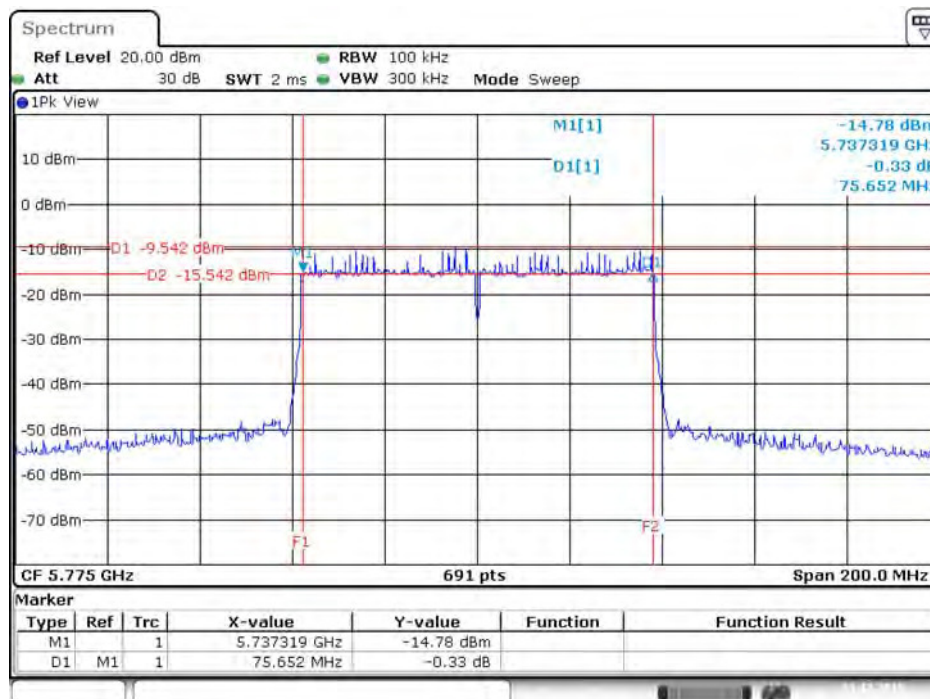
Date: 21.DEC.2015 17:34:46

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 / 5775 MHz



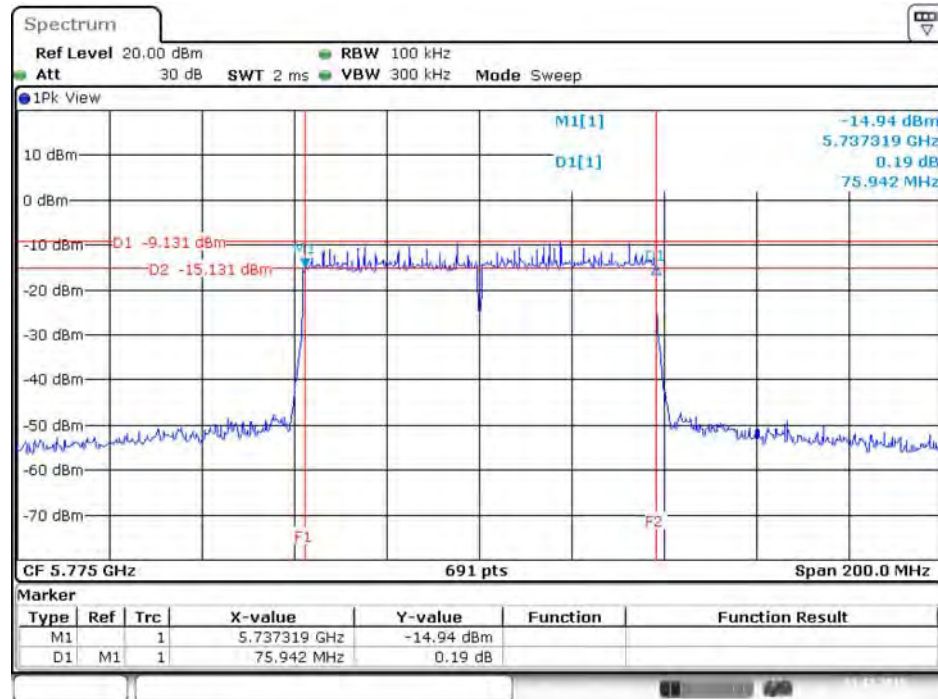
Date: 21.DEC.2015 17:30:13

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 6 / 5775 MHz



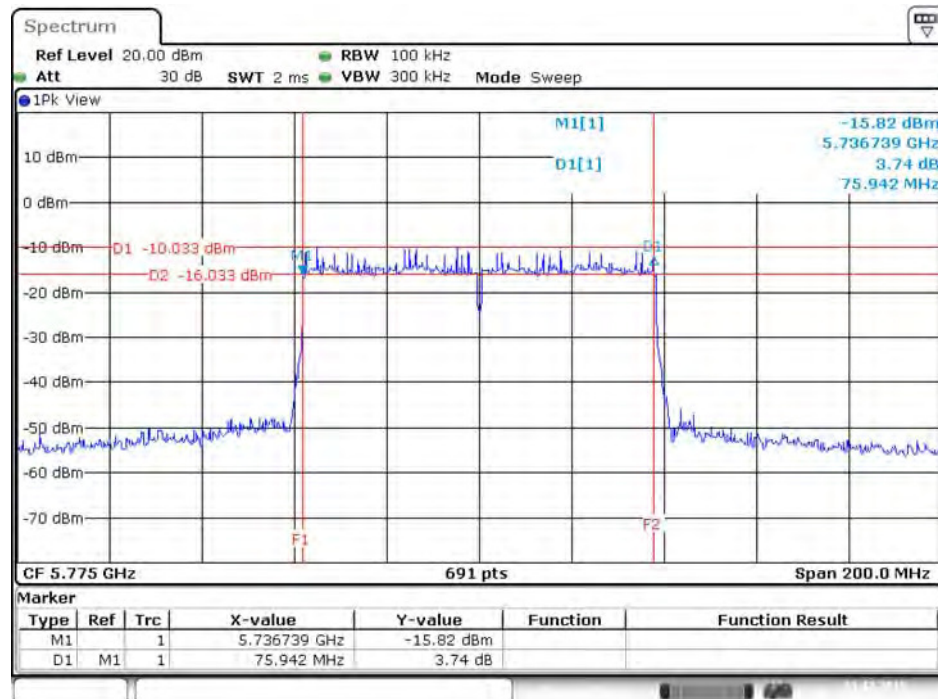
Date: 21.DEC.2015 17:29:55

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 17:29:40

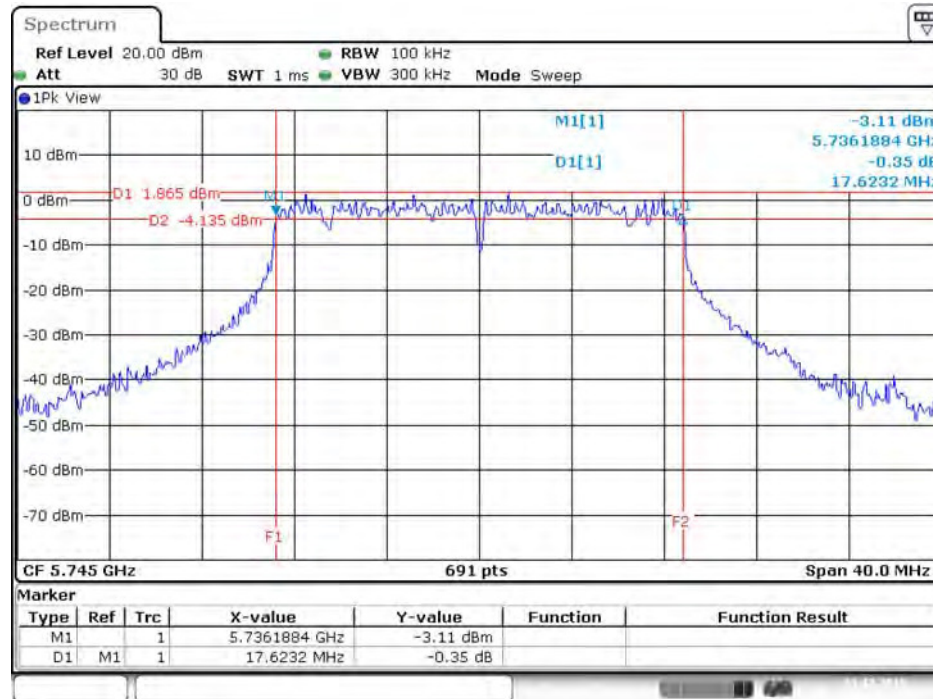
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 8 / 5775 MHz



Date: 21.DEC.2015 17:29:24

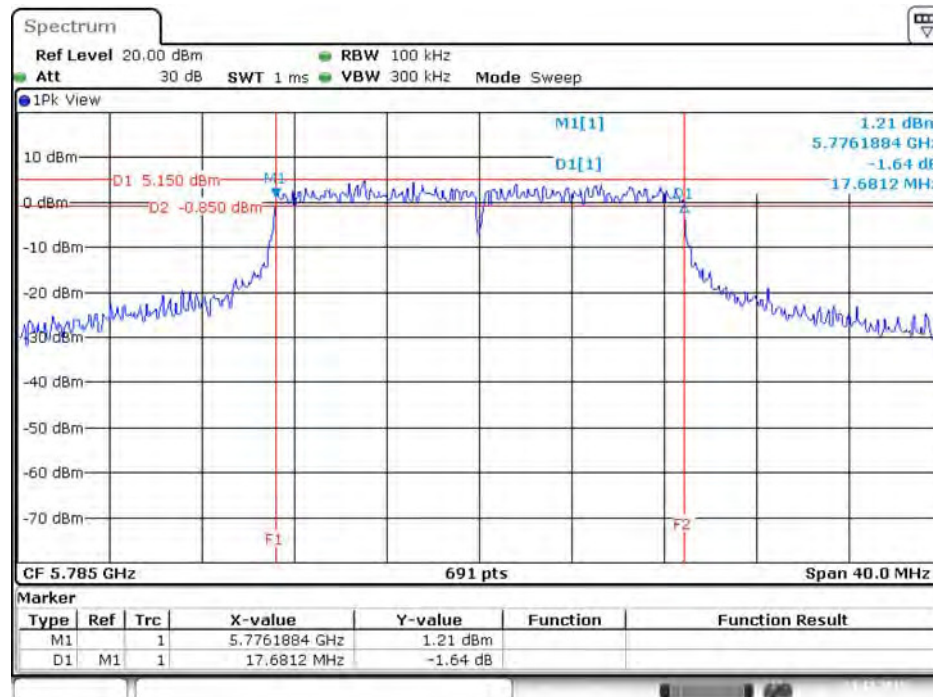


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 / 5745 MHz



Date: 21.DEC.2015 17:17:10

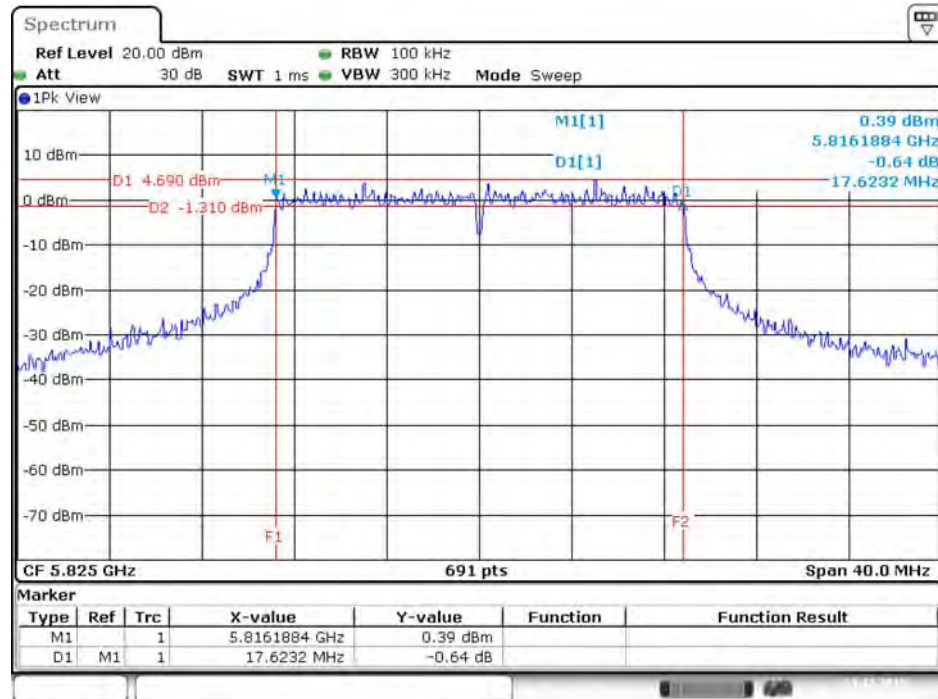
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 6 / 5785 MHz



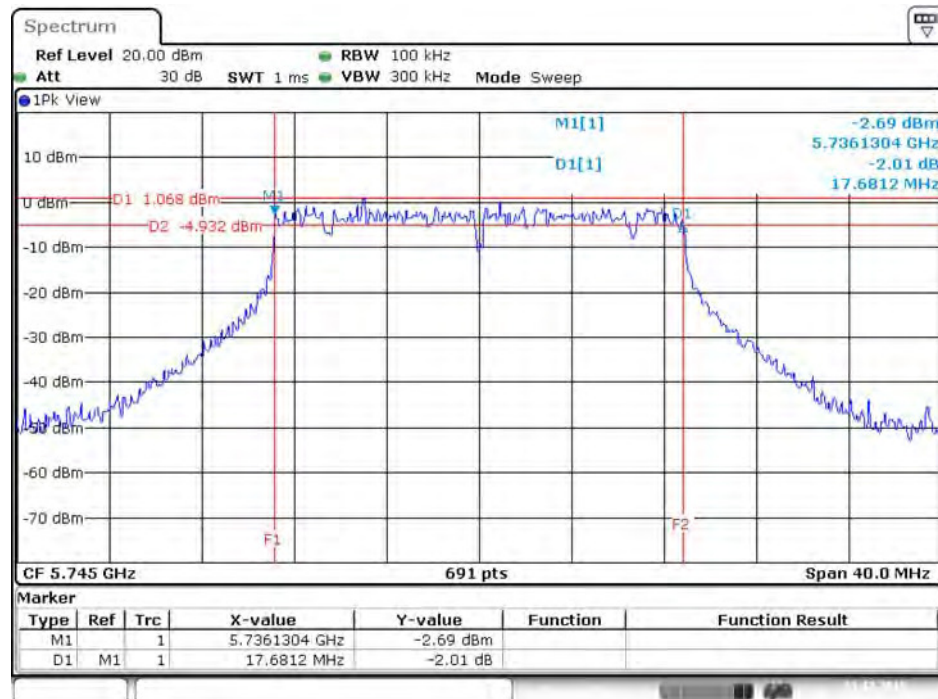
Date: 21.DEC.2015 17:20:16



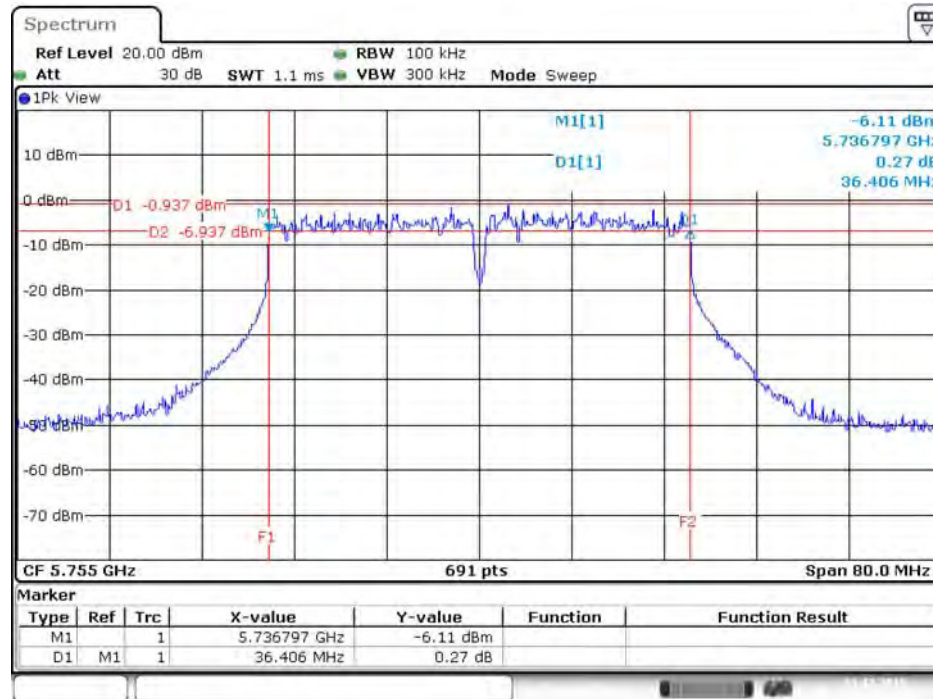
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 7 / 5825 MHz



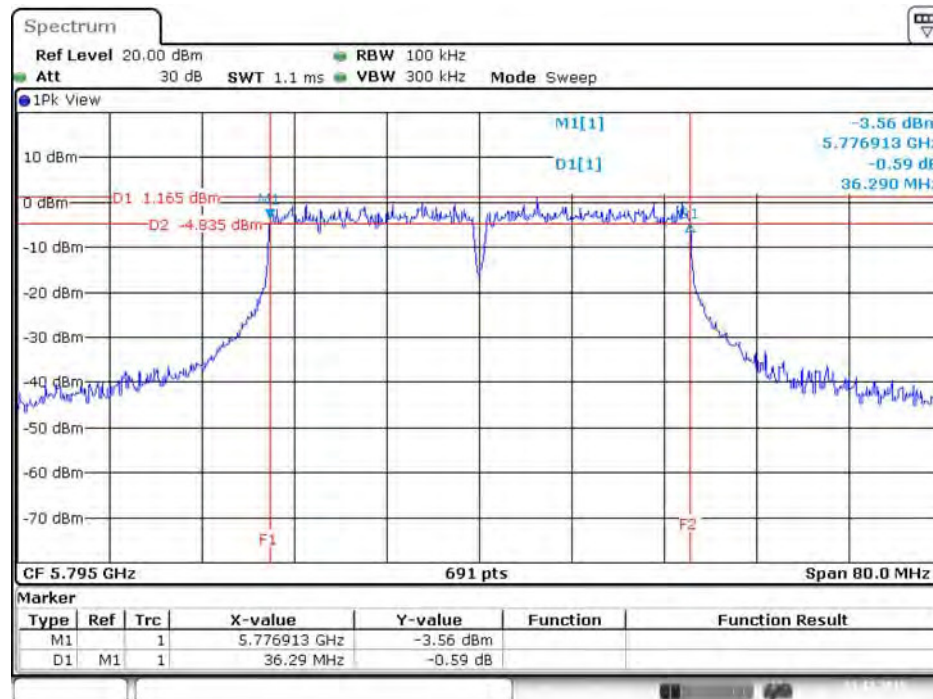
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 8 / 5745 MHz



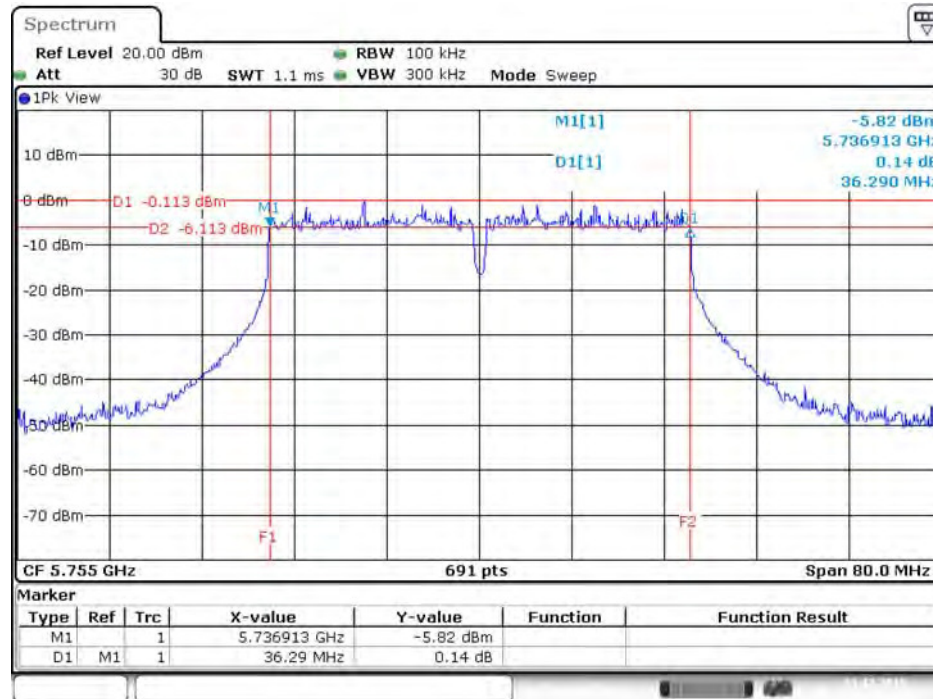
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 / 5755MHz



### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 6 / 5795MHz

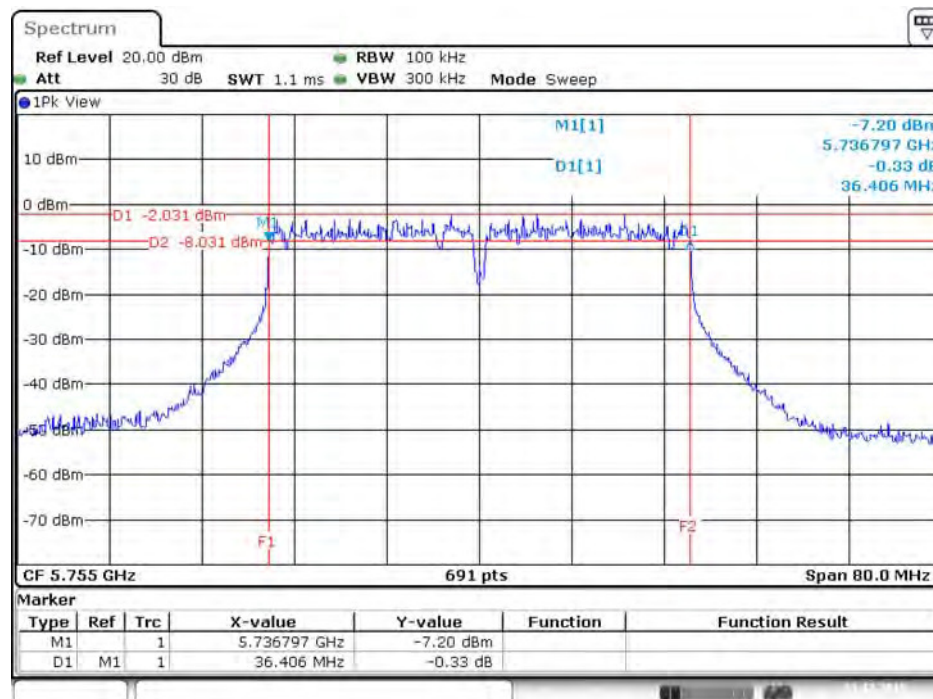


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 7 / 5755MHz



Date: 21.DEC.2015 17:13:05

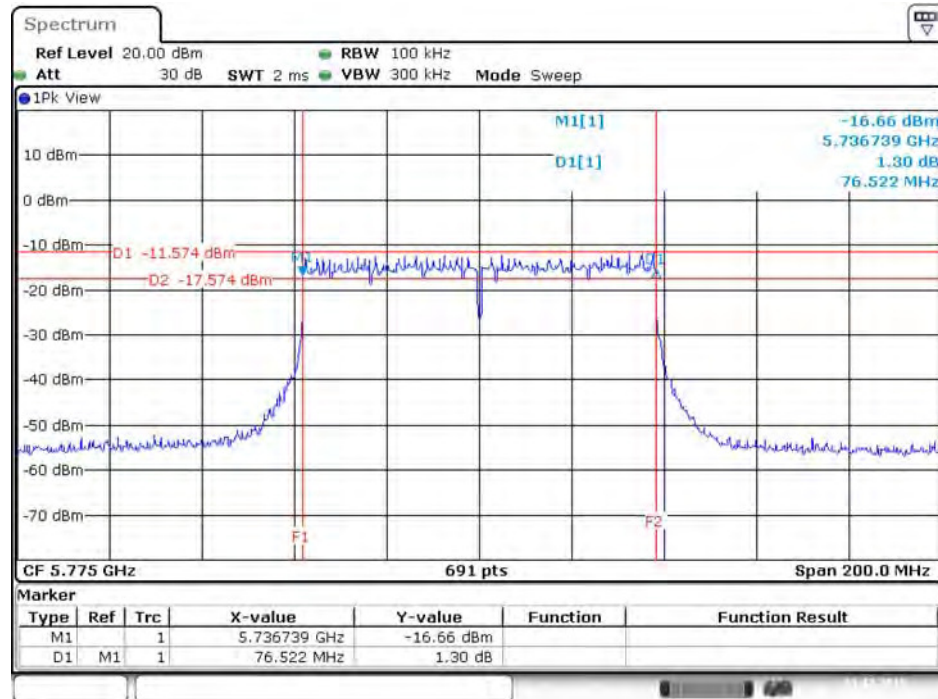
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 8 / 5755MHz



Date: 21.DEC.2015 17:13:45

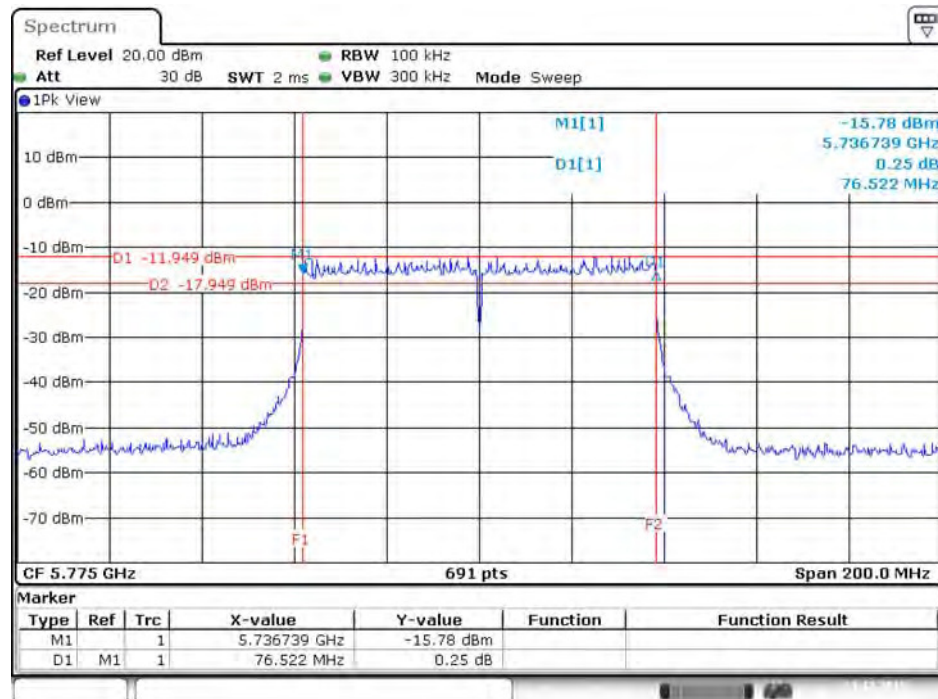


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 / 5775 MHz



Date: 21.DEC.2015 17:10:14

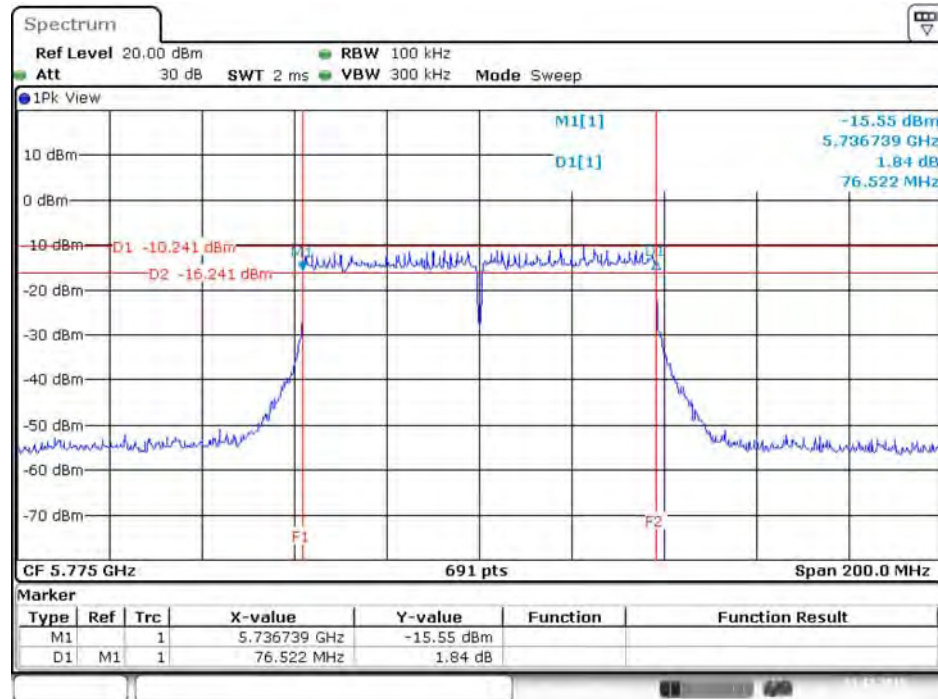
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 6 / 5775 MHz



Date: 21.DEC.2015 17:09:51

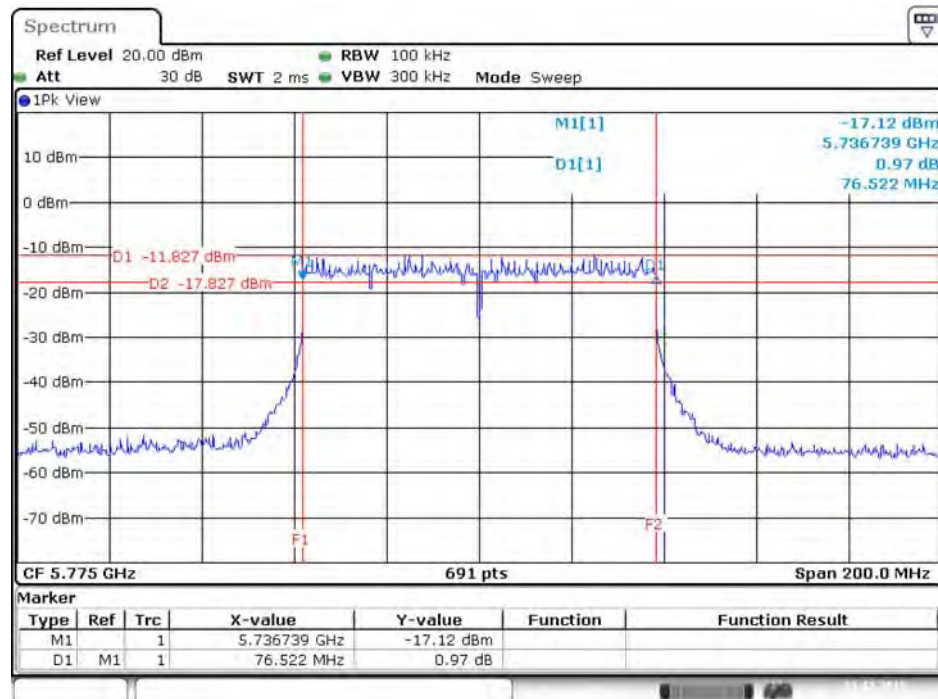


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 17:09:08

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 8 / 5775 MHz

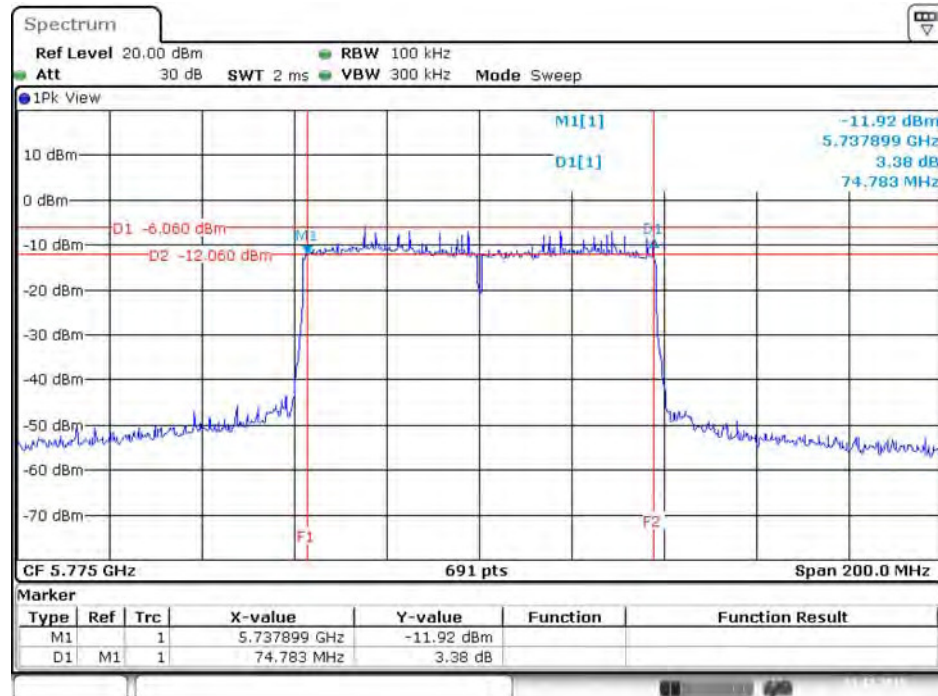


Date: 21.DEC.2015 17:07:47

For 802.11ac MCS0/Nss2 VHT80+80 Mode

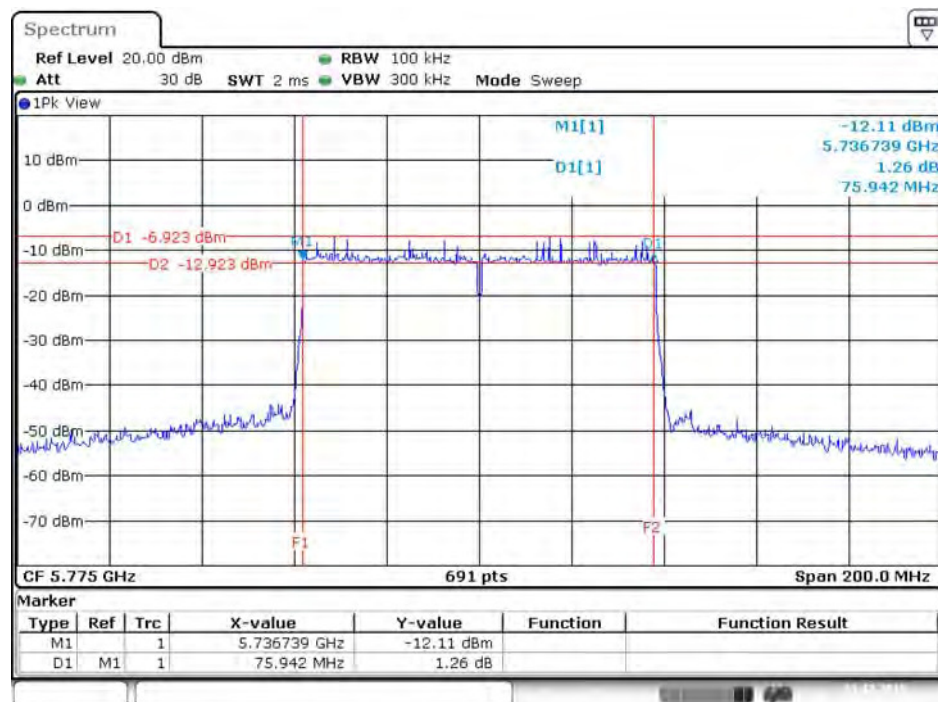
Type 1

6 dB Bandwidth Plot on Chain 7 / 5775 MHz



Date: 21.DEC.2015 23:37:14

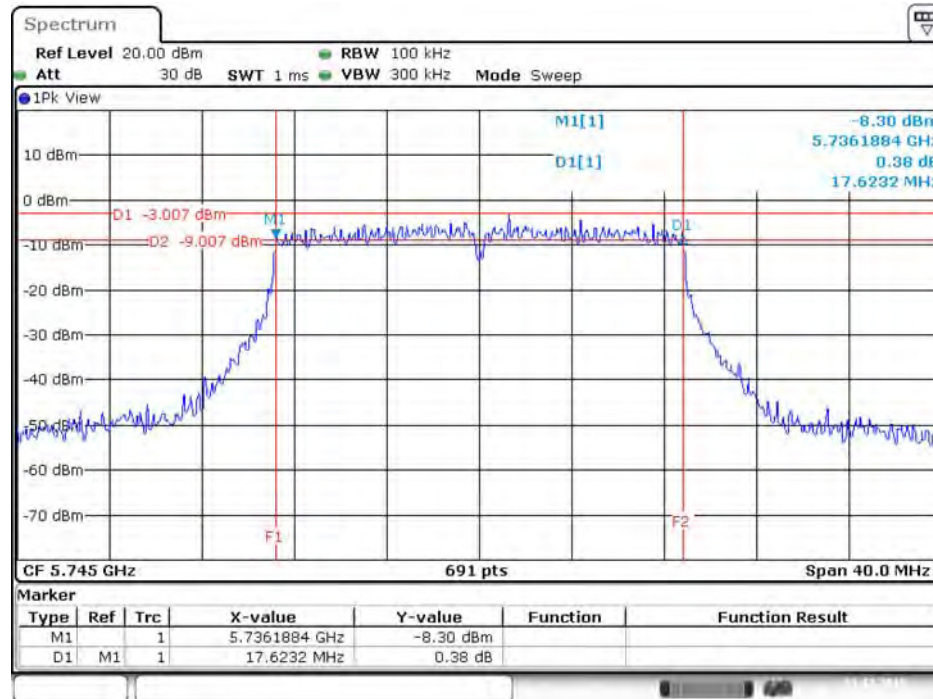
6 dB Bandwidth Plot on Chain 8 / 5775 MHz



Date: 21.DEC.2015 23:38:55

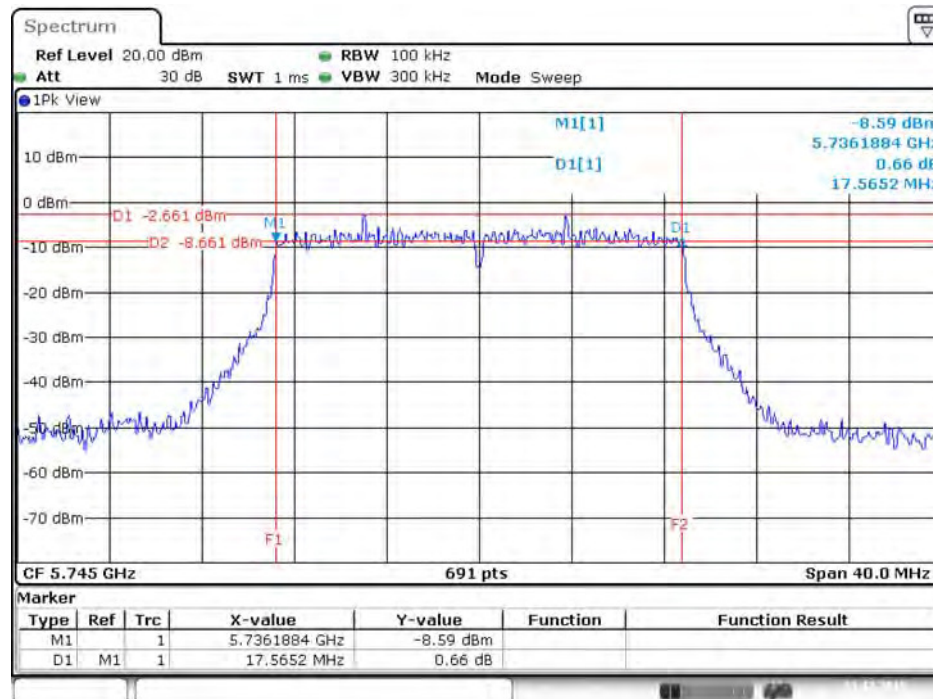
<For Radio 2 Beamforming Mode>

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 / 5745 MHz



Date: 21.DEC.2015 16:52:42

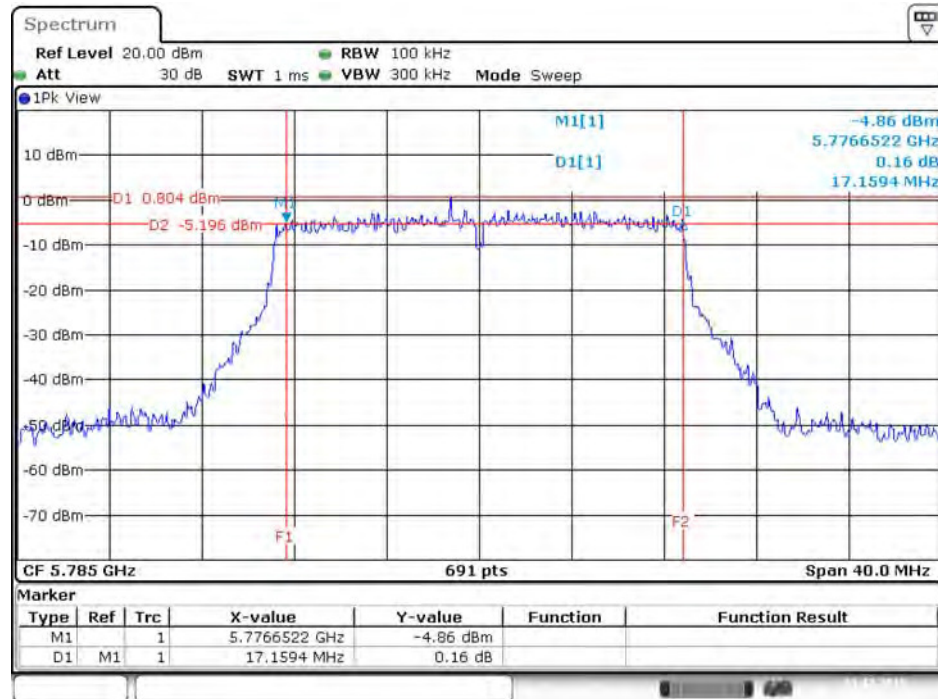
6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 6 / 5745 MHz



Date: 21.DEC.2015 16:52:19

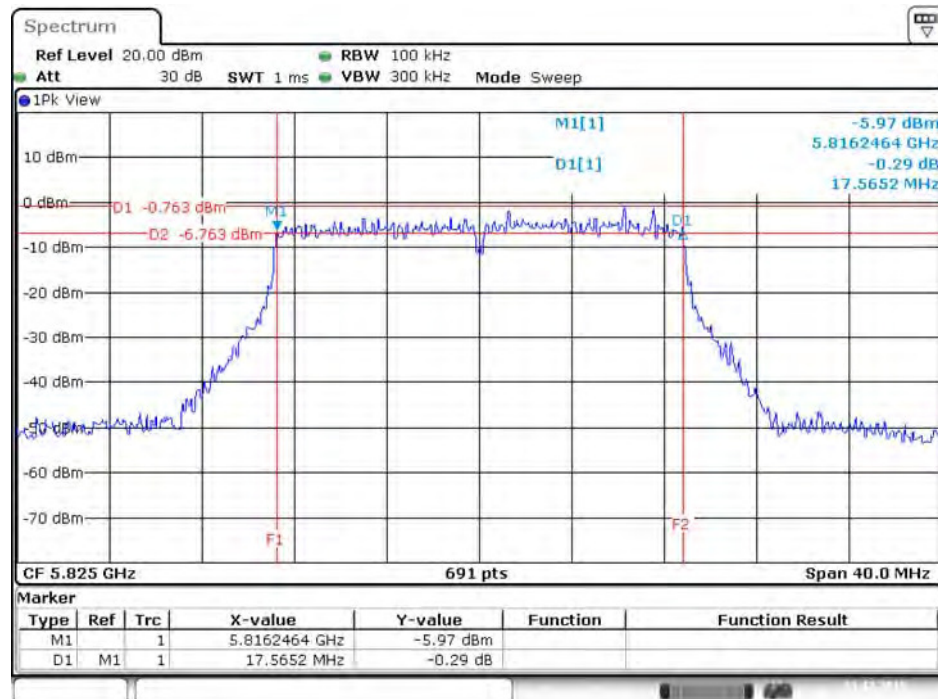


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 7 / 5785 MHz



Date: 21.DEC.2015 16:49:13

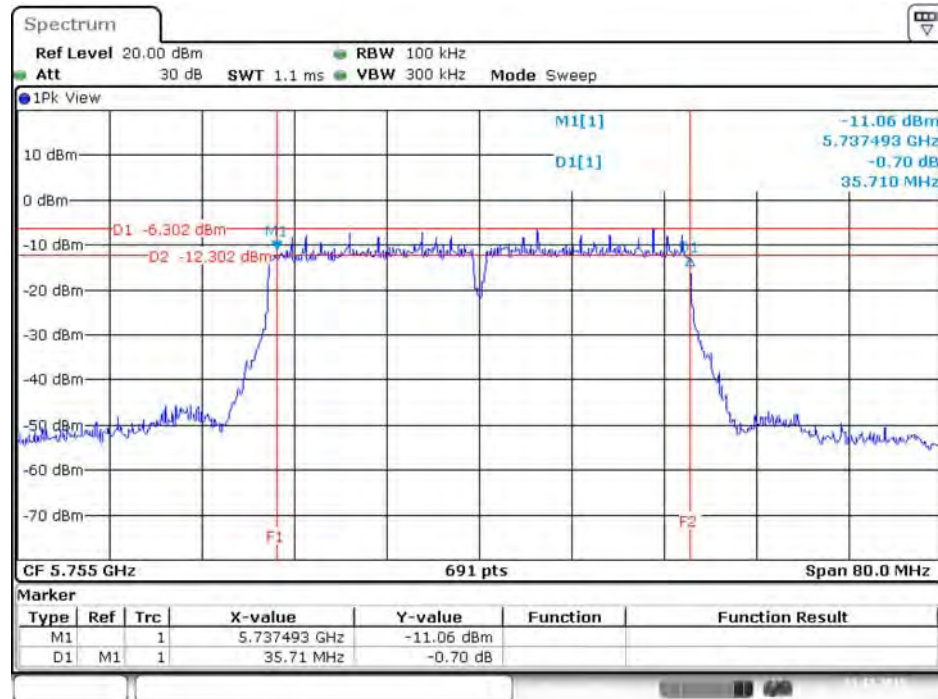
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 8 / 5825 MHz



Date: 21.DEC.2015 16:43:32

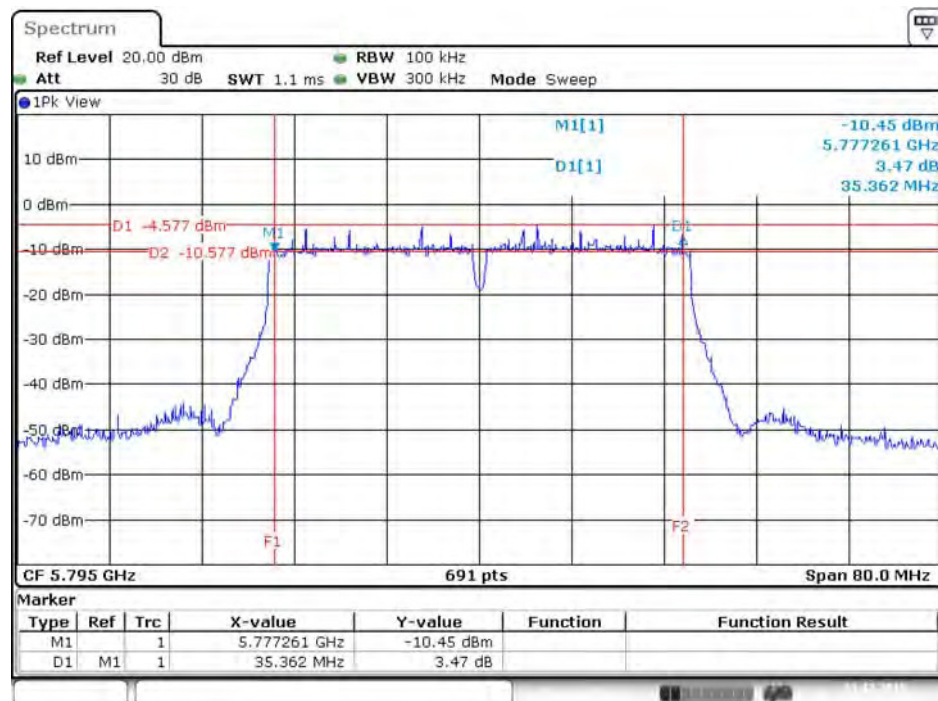


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 / 5755MHz



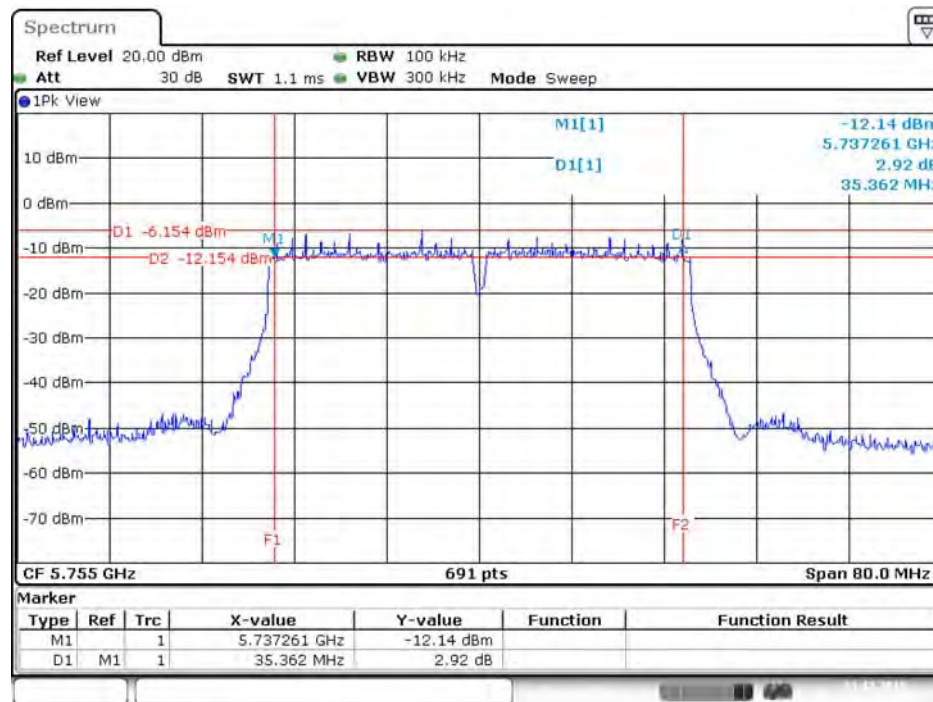
Date: 21.DEC.2015 16:53:31

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 6 / 5795MHz



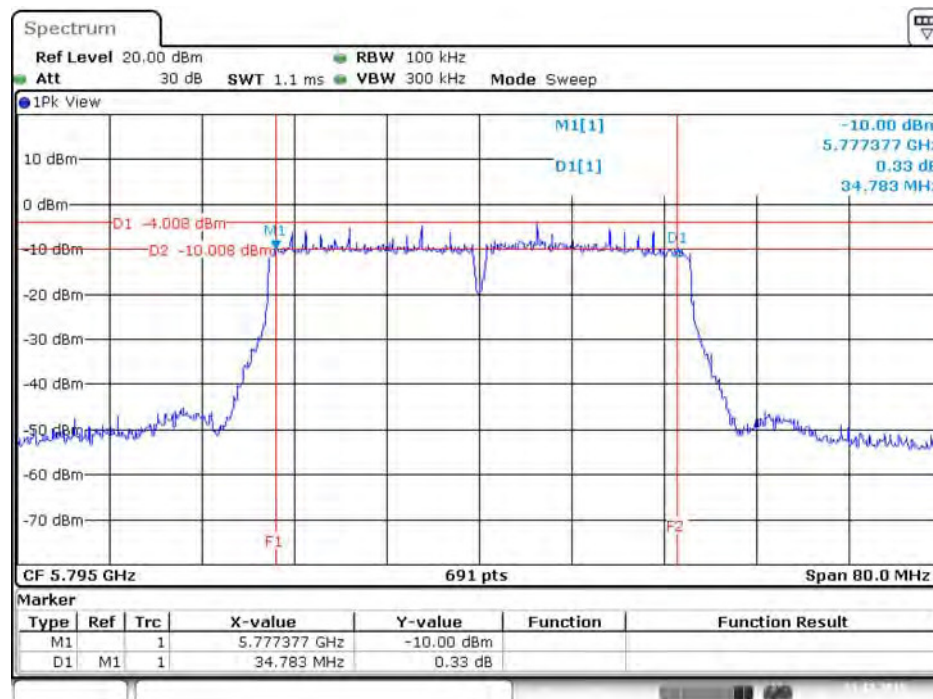
Date: 21.DEC.2015 17:01:37

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 7 / 5755MHz



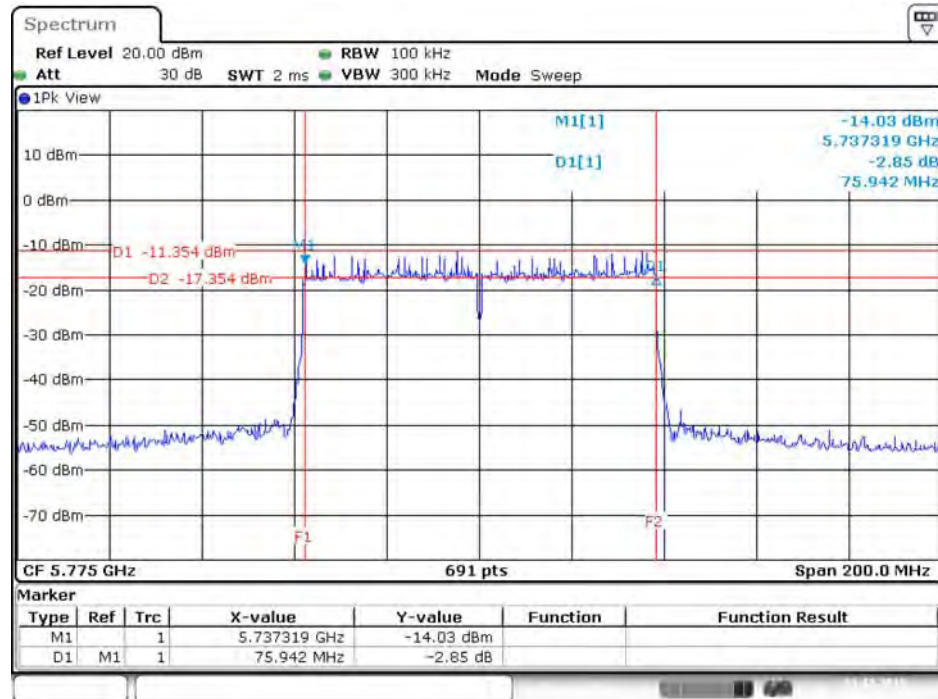
Date: 21.DEC.2015 16:58:38

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 8 / 5795MHz



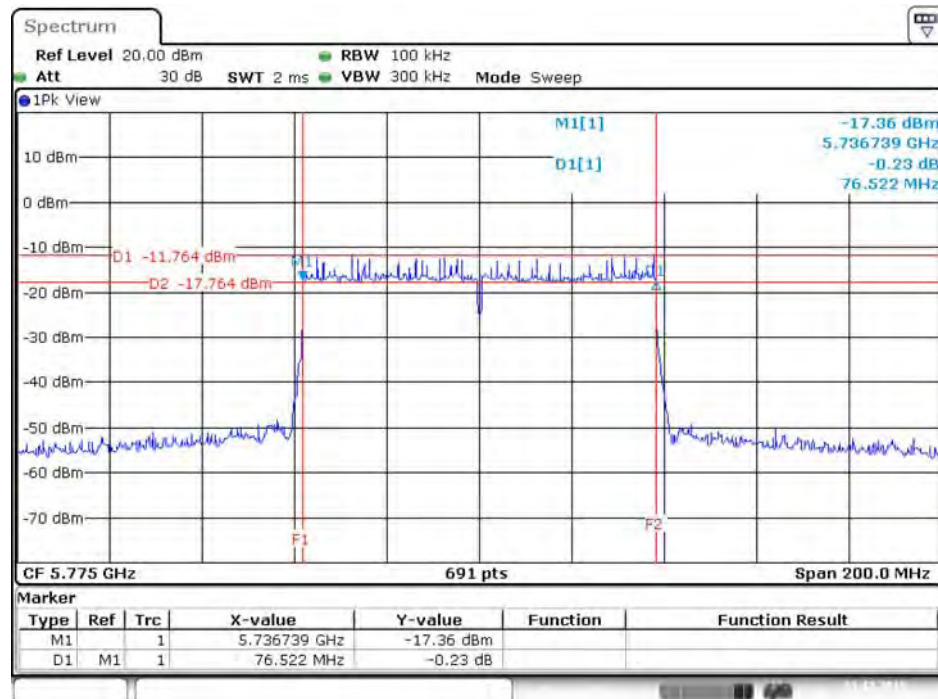
Date: 21.DEC.2015 17:00:21

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 / 5775 MHz



Date: 21.DEC.2015 17:04:48

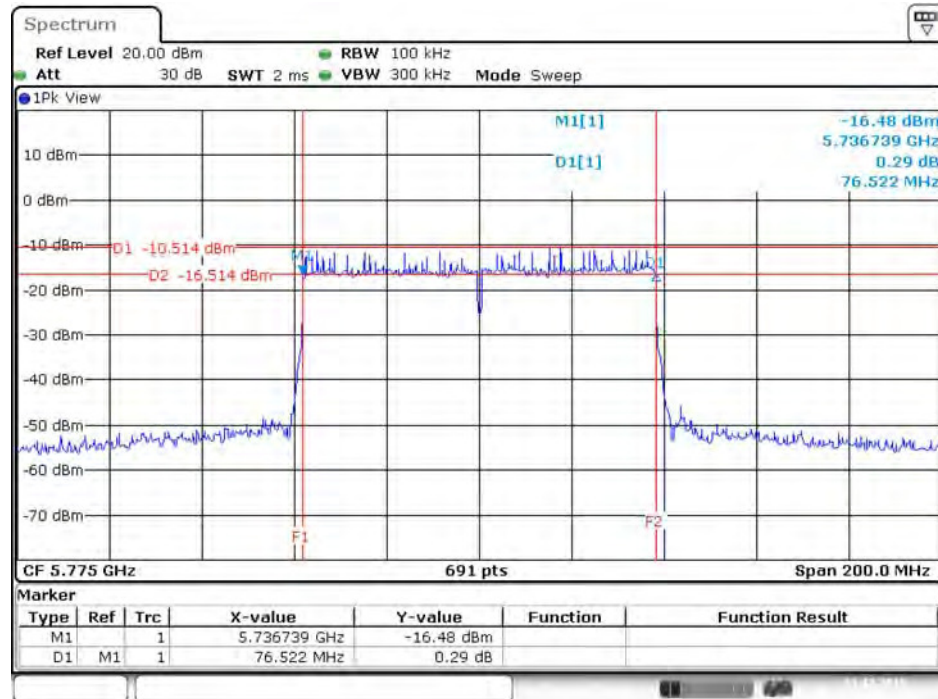
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 6 / 5775 MHz



Date: 21.DEC.2015 17:05:16

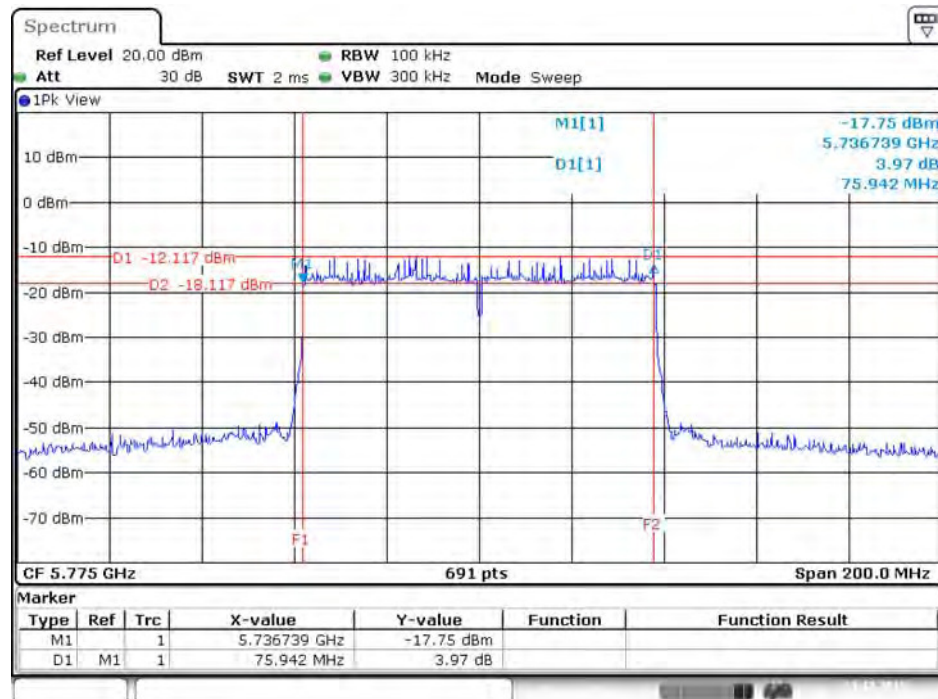


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 17:05:31

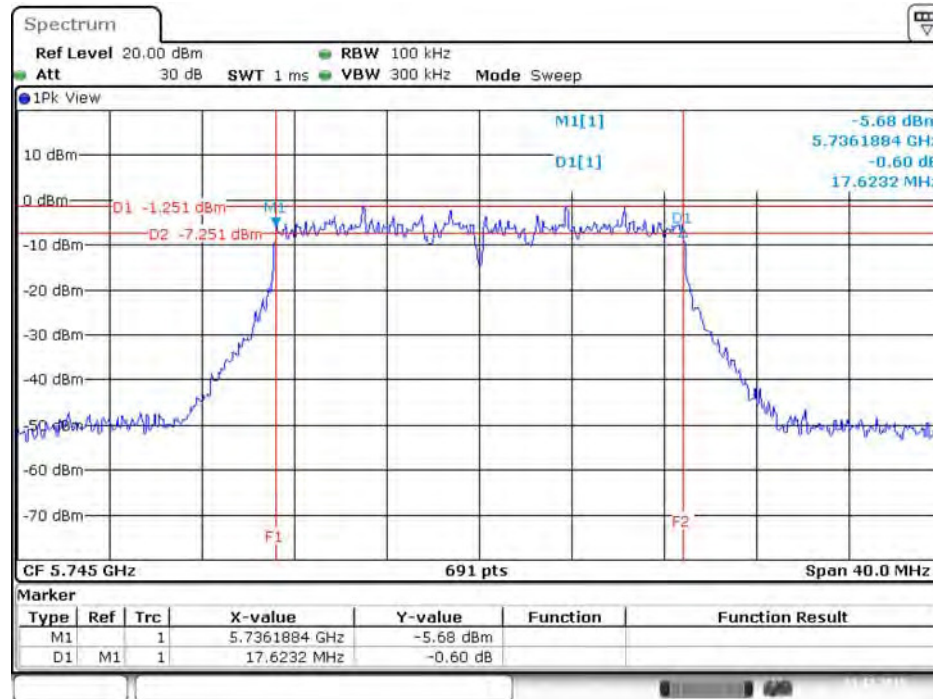
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 8 / 5775 MHz



Date: 21.DEC.2015 17:05:56

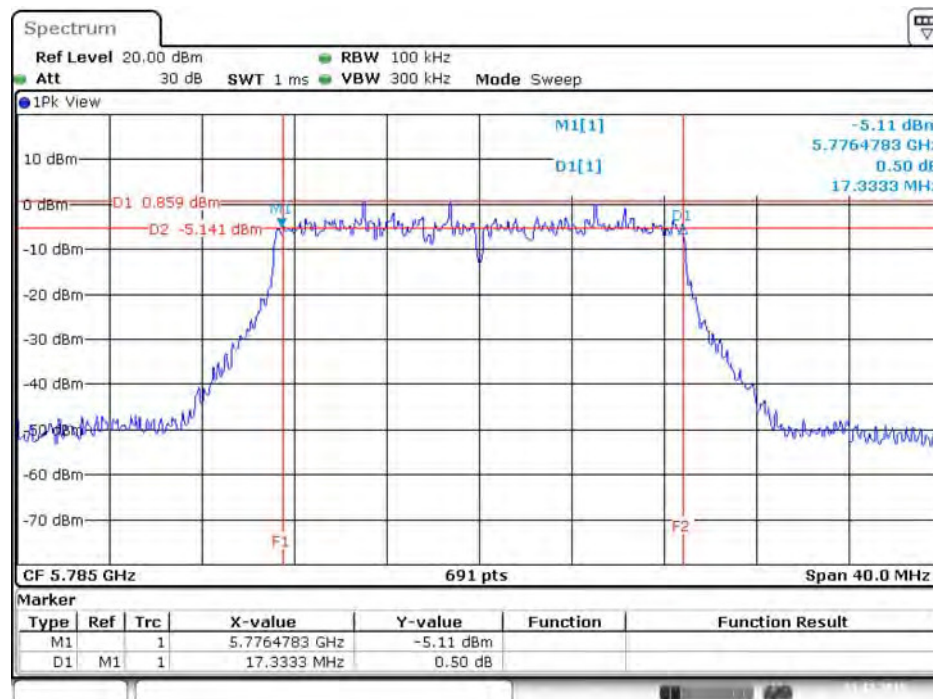


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 / 5745 MHz



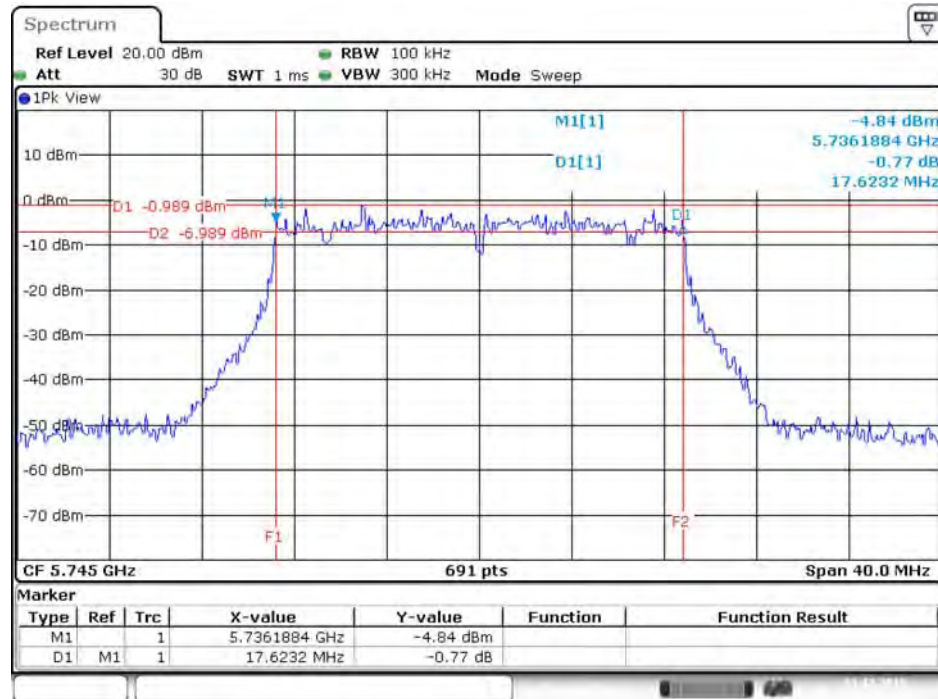
Date: 21.DEC.2015 16:31:53

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 6 / 5785 MHz

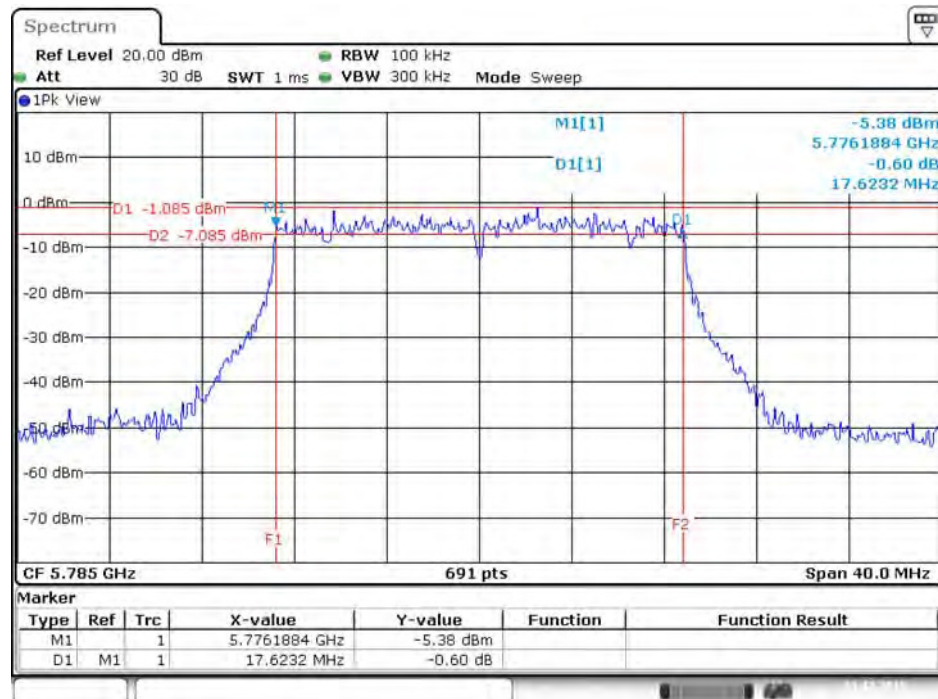


Date: 21.DEC.2015 16:35:49

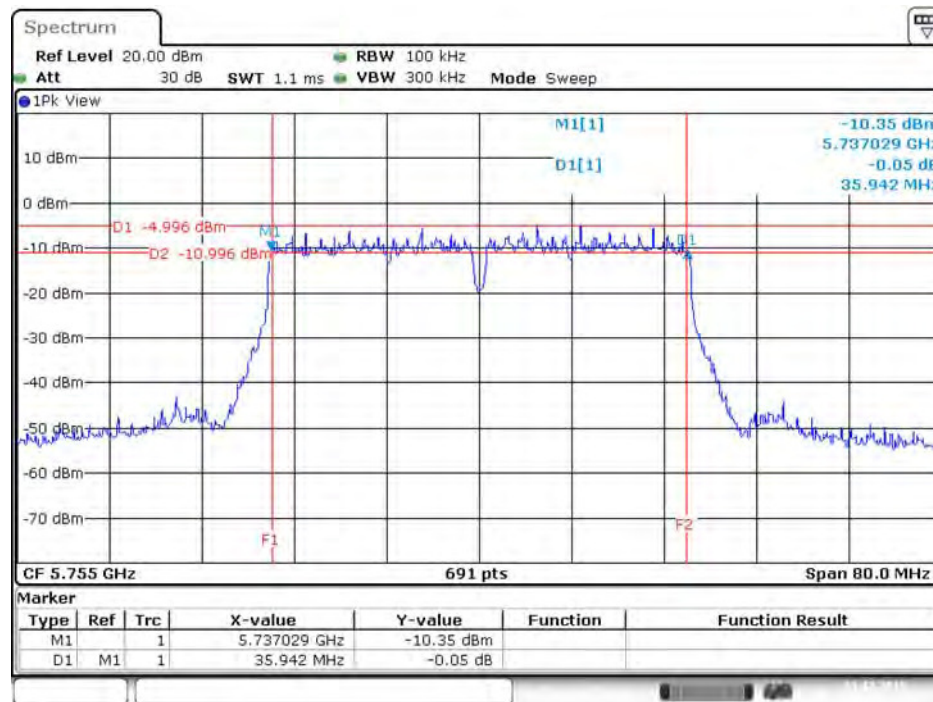
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 7 / 5745 MHz



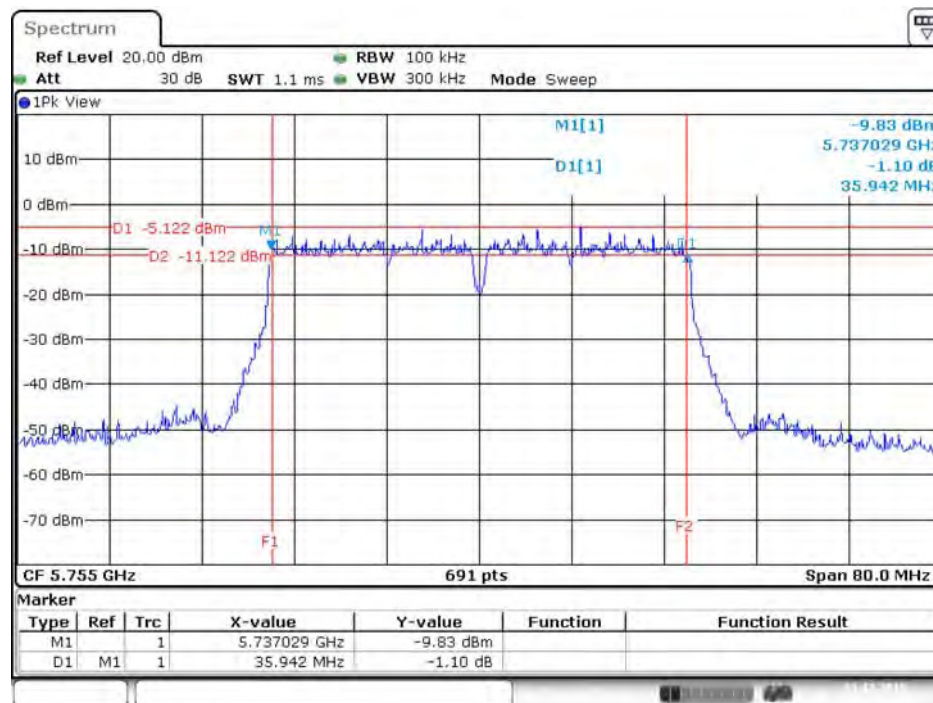
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 8 / 5785 MHz



### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 / 5755MHz

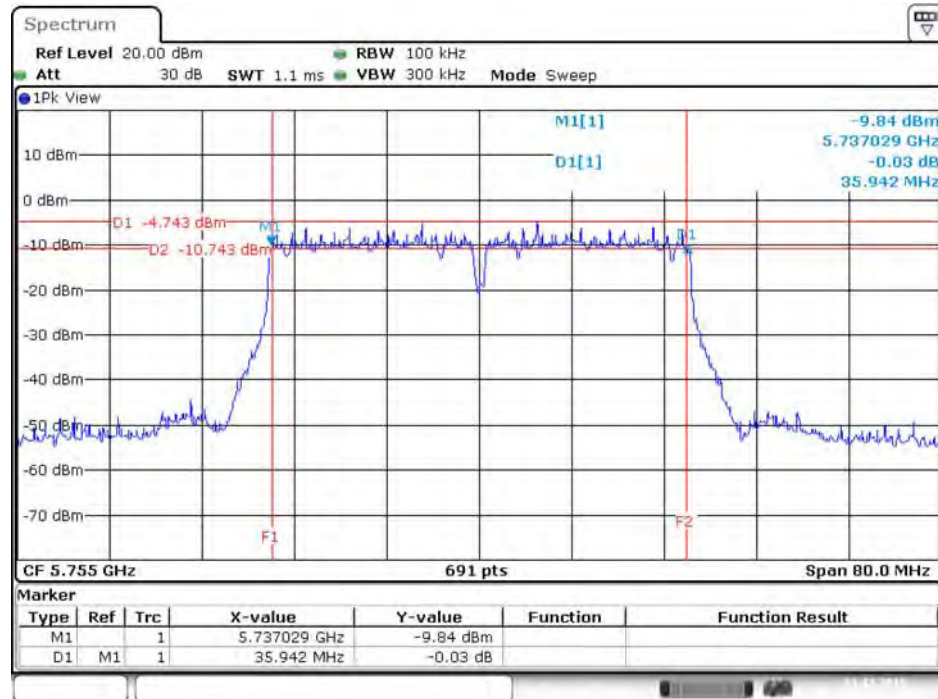


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 6 / 5755MHz



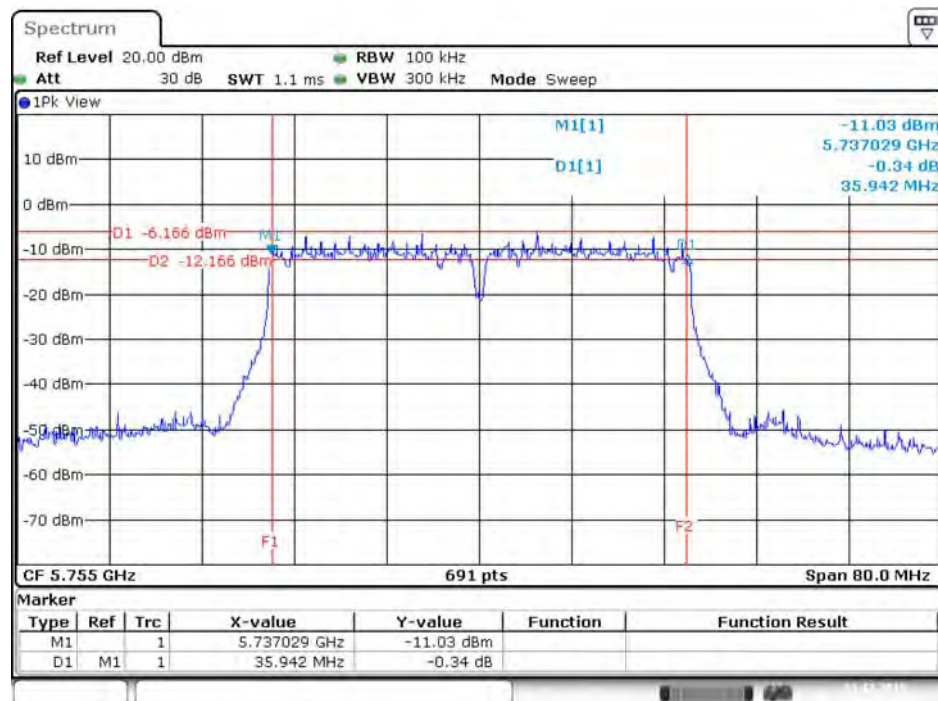


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 7 / 5755MHz



Date: 21.DEC.2015 16:27:20

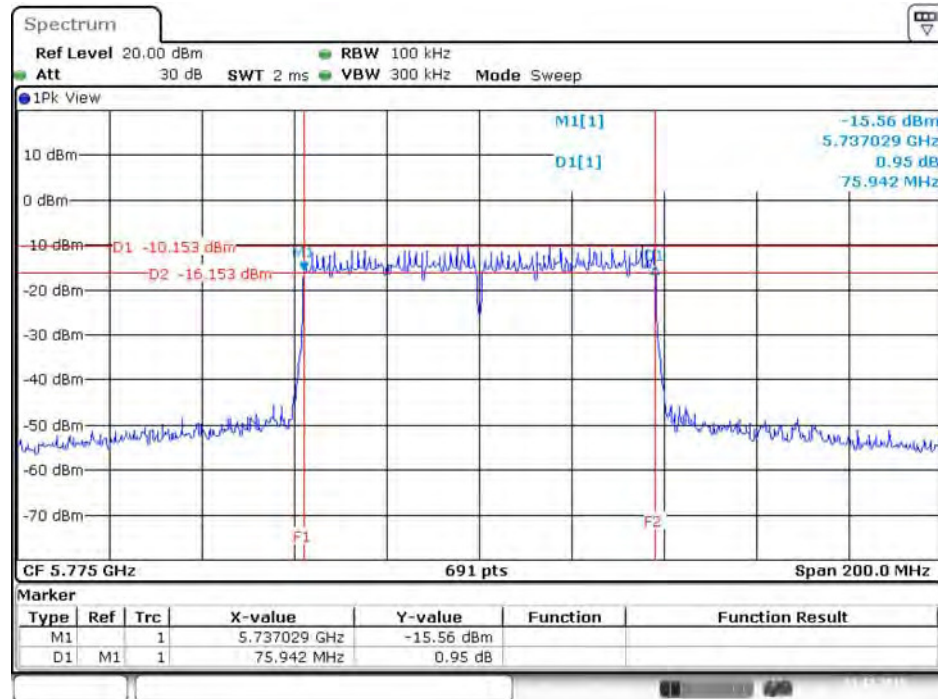
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 8 / 5755MHz



Date: 21.DEC.2015 16:27:39

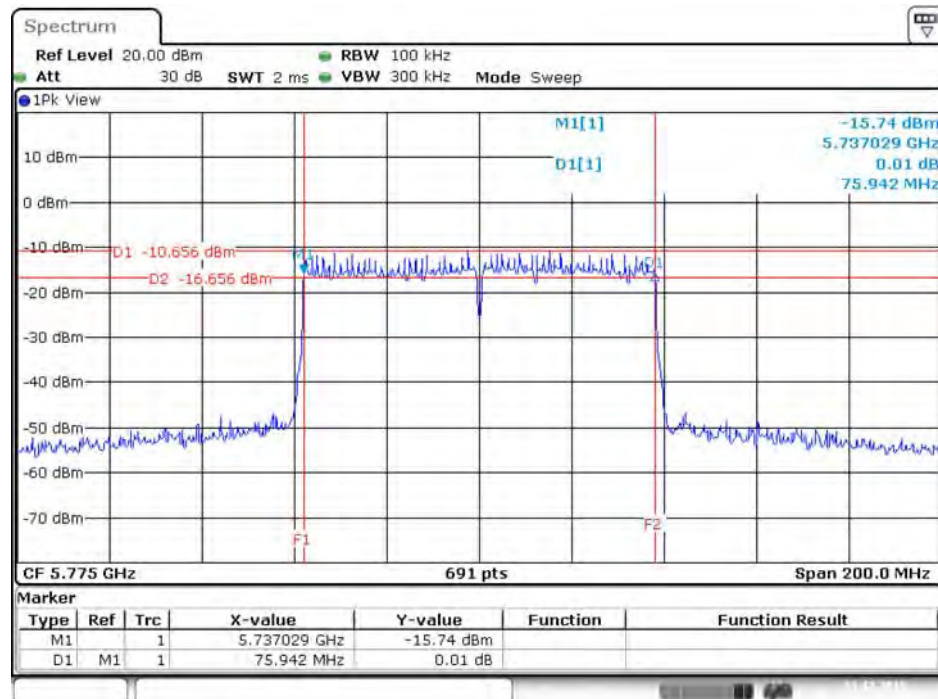


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 / 5775 MHz



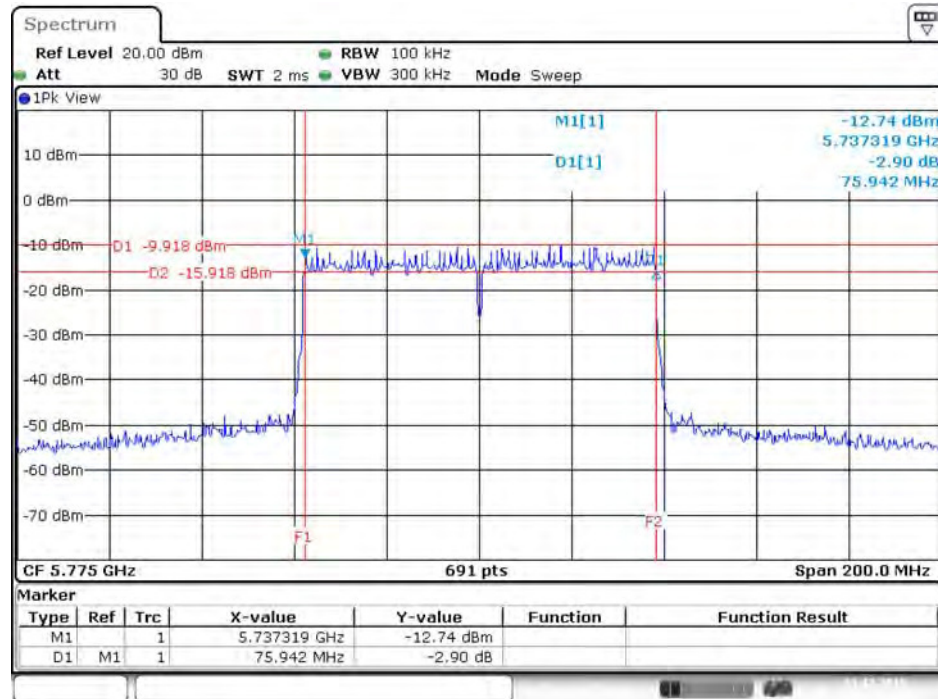
Date: 21.DEC.2015 16:20:38

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 6 / 5775 MHz

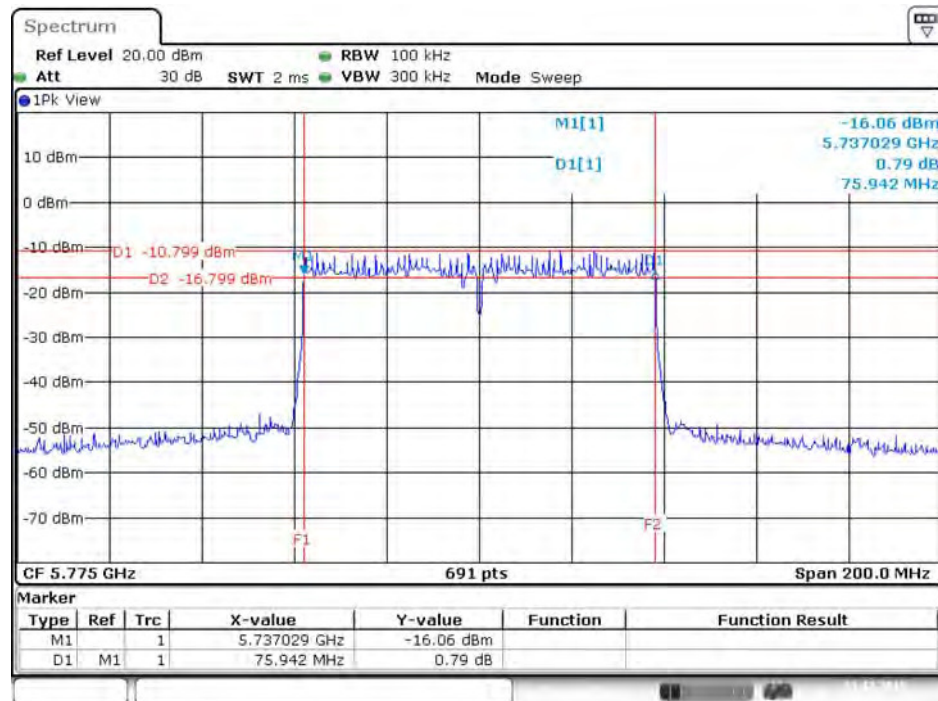


Date: 21.DEC.2015 16:20:21

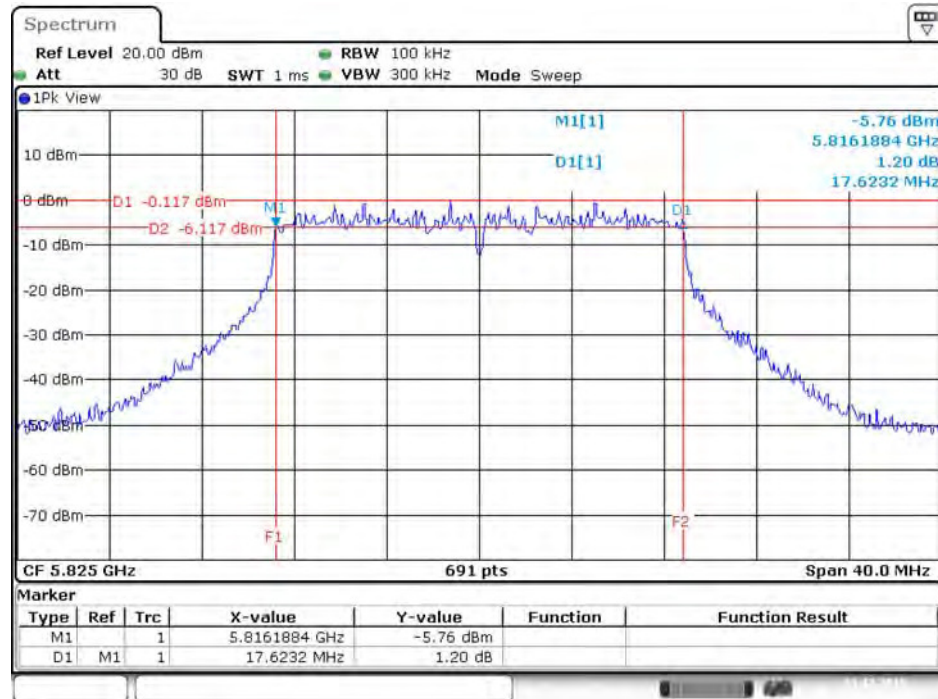
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 7 / 5775 MHz



### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 8 / 5775 MHz

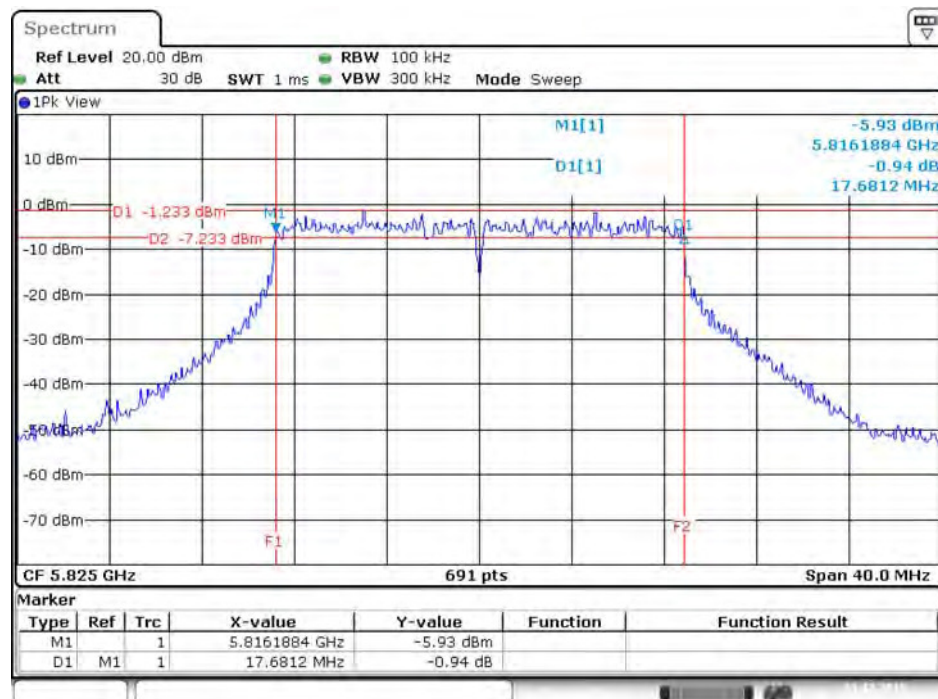


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 / 5825 MHz



Date: 21.DEC.2015 16:01:57

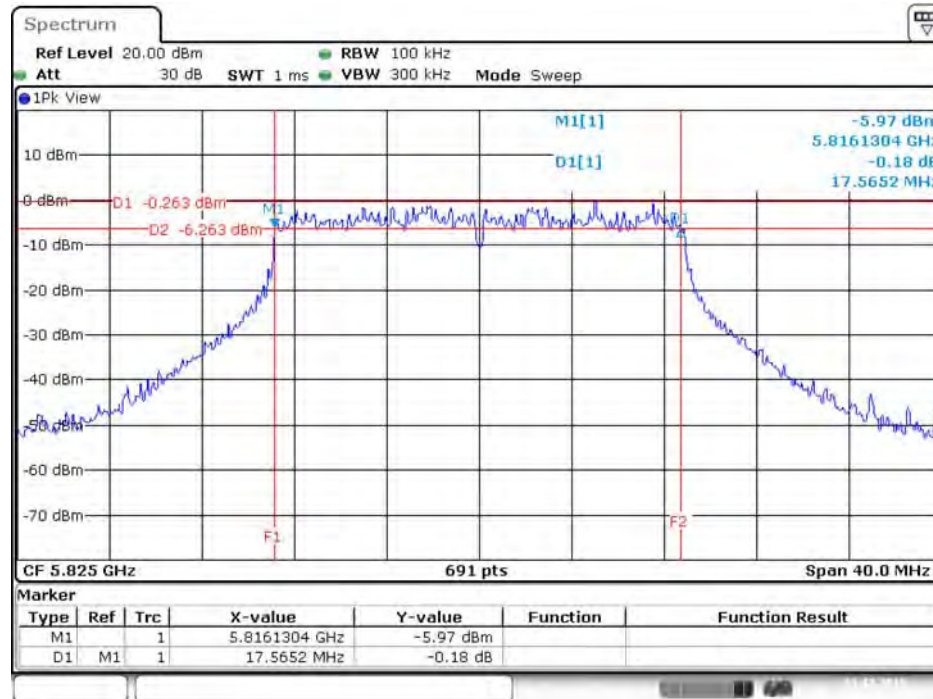
### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 6 / 5825 MHz



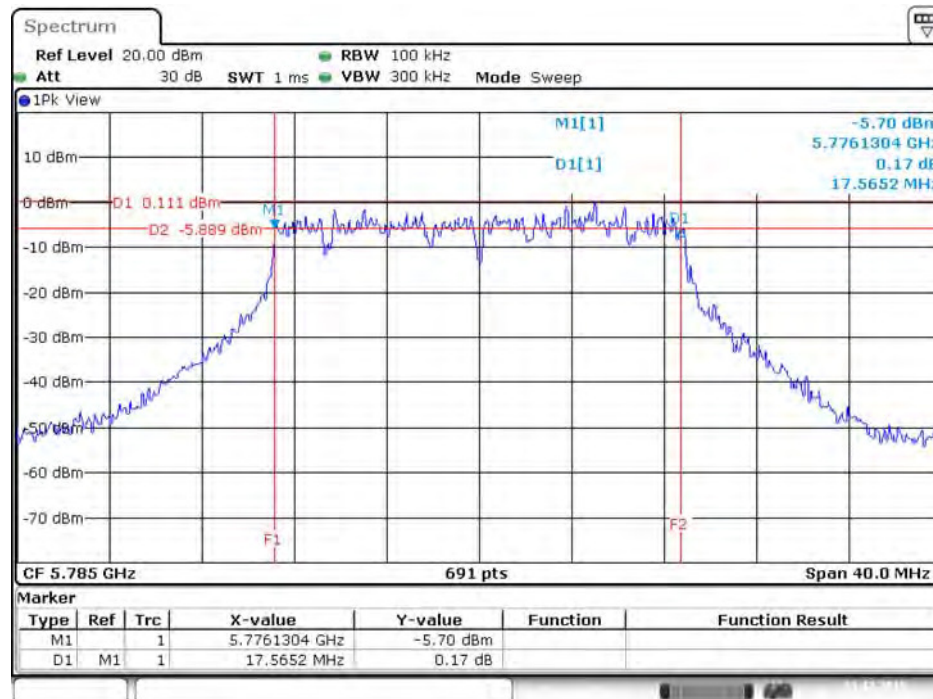
Date: 21.DEC.2015 16:01:39



### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 7 / 5825 MHz

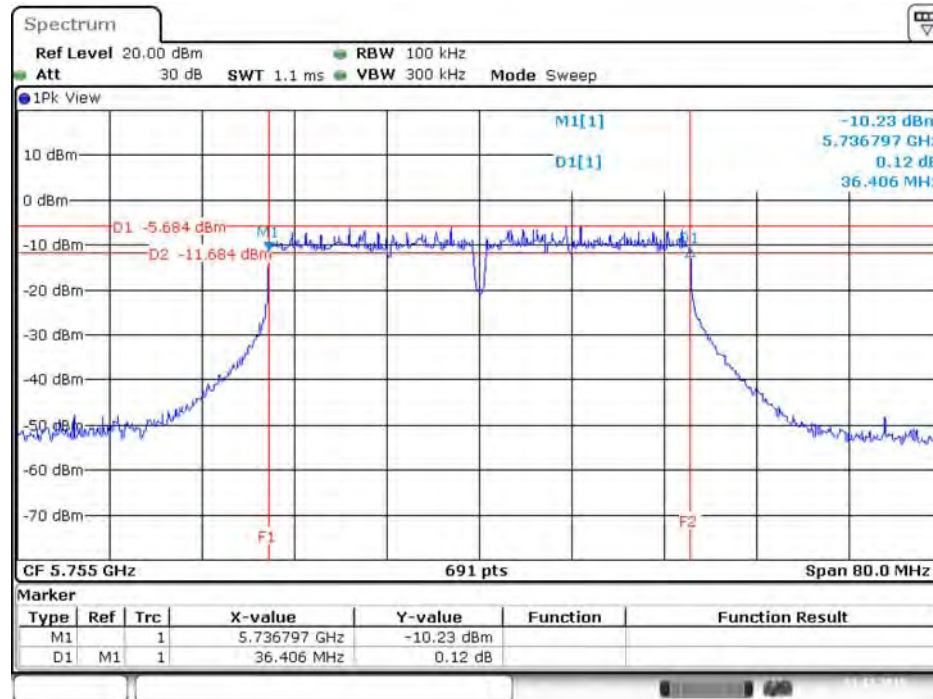


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 8 / 5785 MHz



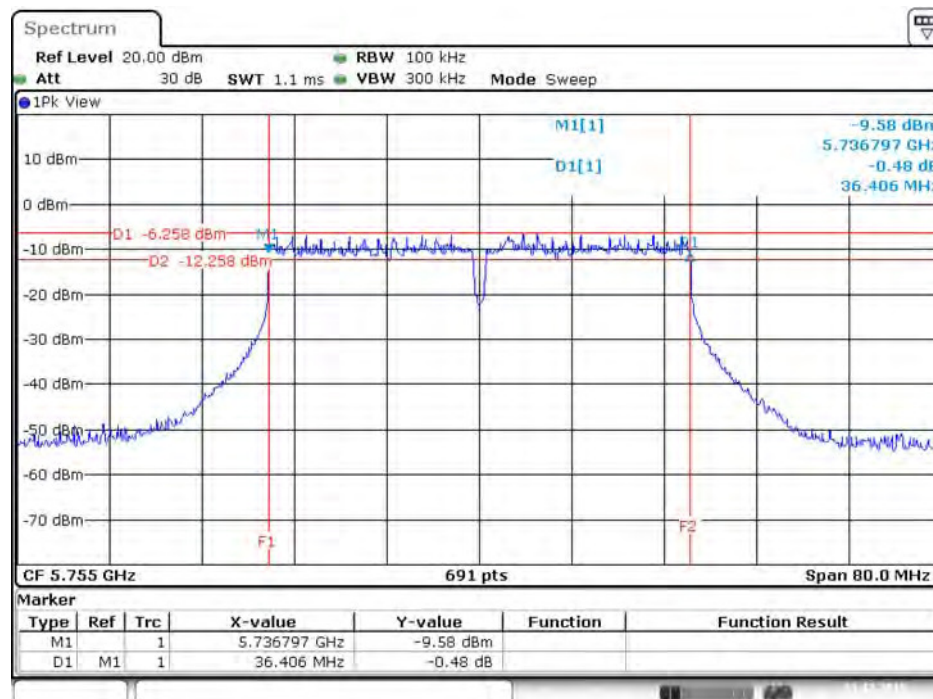


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 / 5755MHz



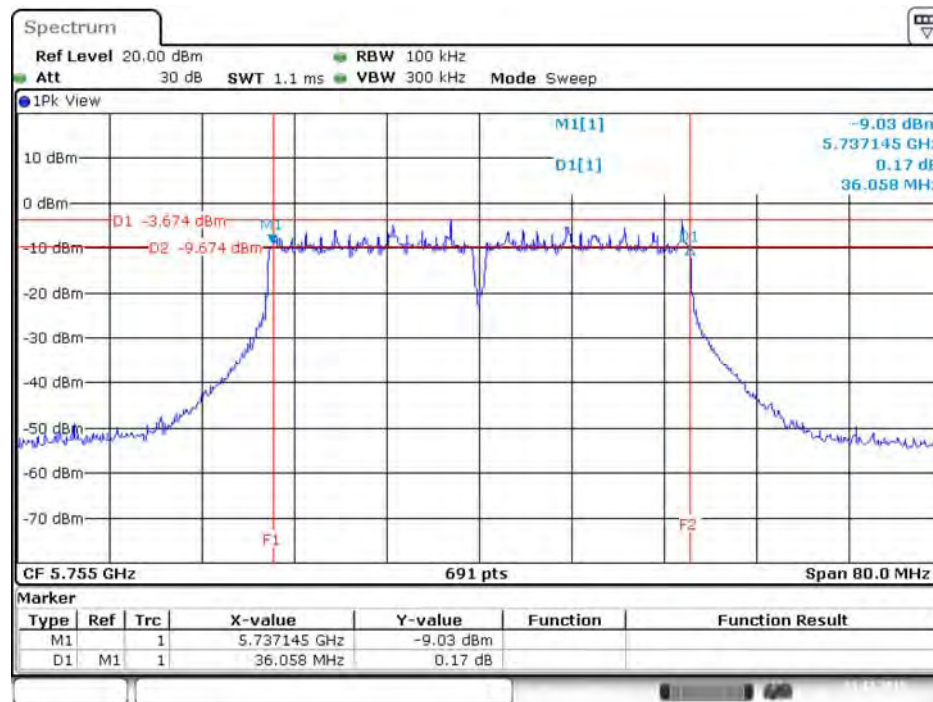
Date: 21.DEC.2015 16:09:49

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 6 / 5755MHz



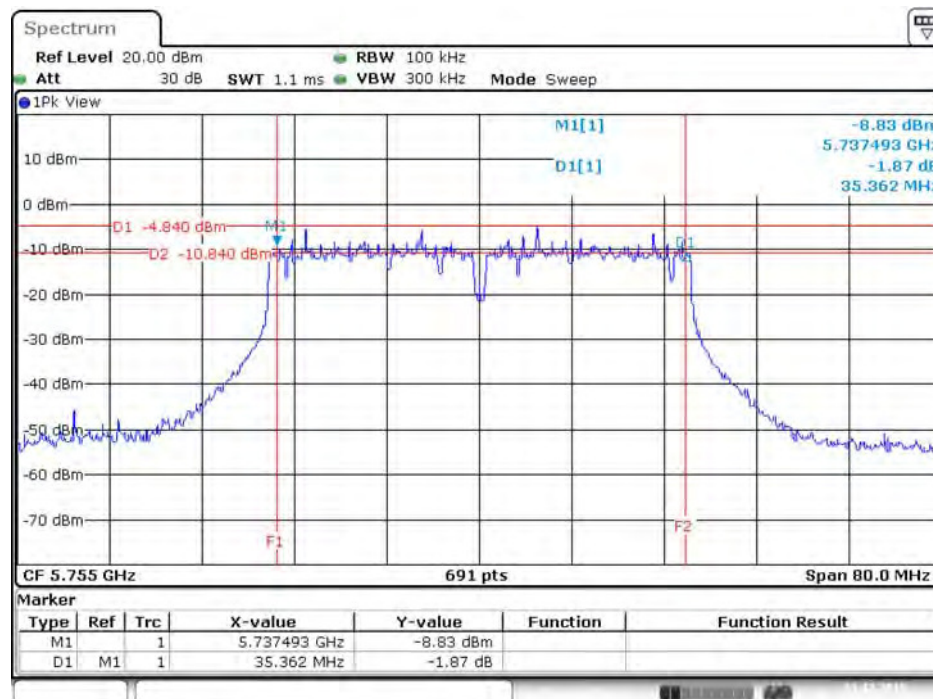
Date: 21.DEC.2015 16:10:49

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 7 / 5755MHz



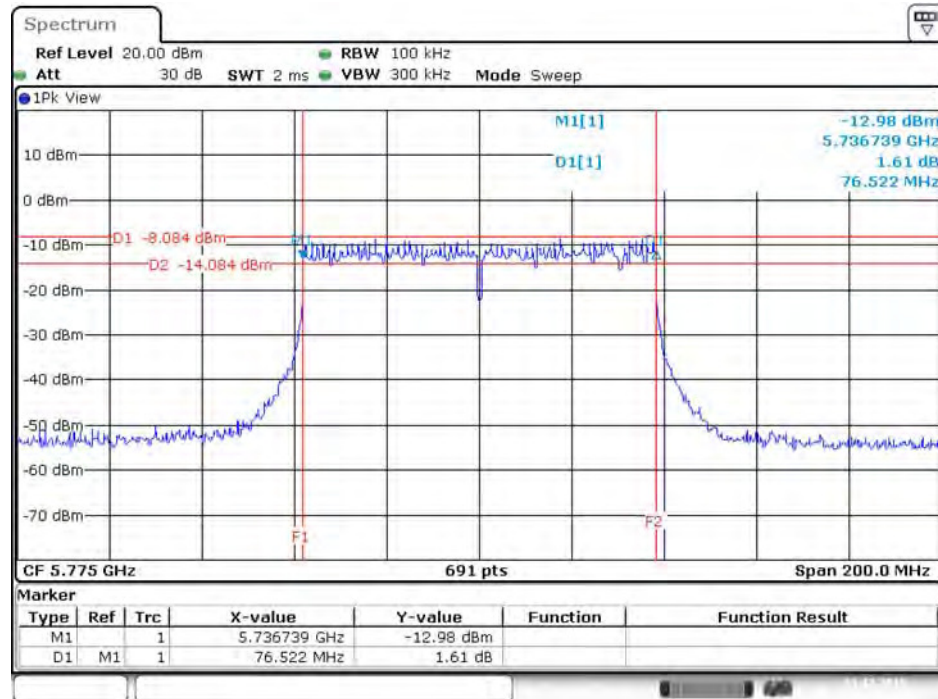
Date: 21.DEC.2015 16:11:06

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 8 / 5755MHz

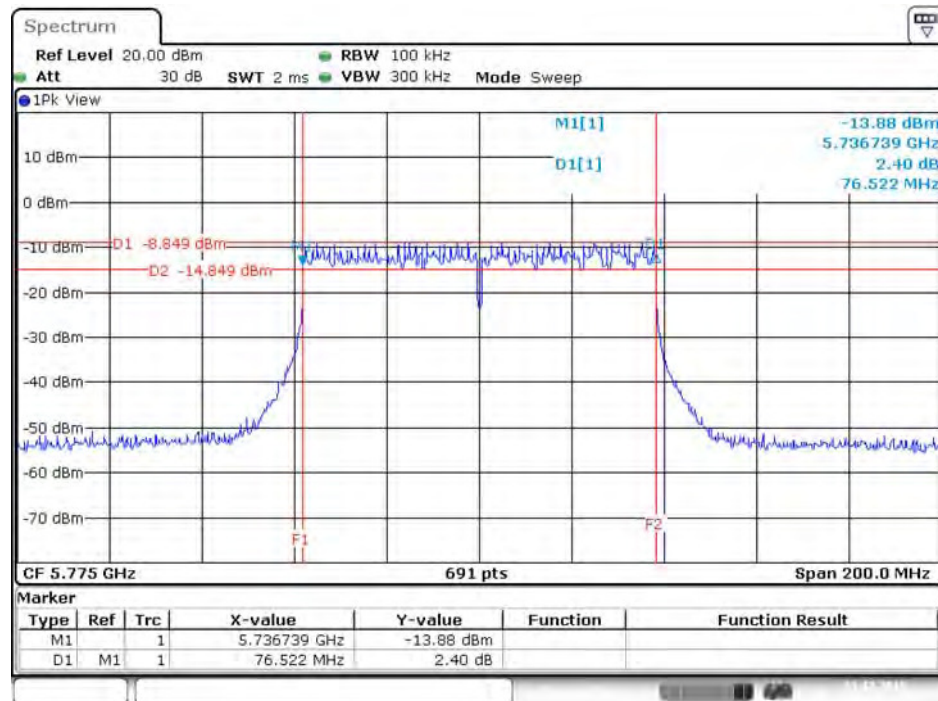


Date: 21.DEC.2015 16:11:20

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 / 5775 MHz

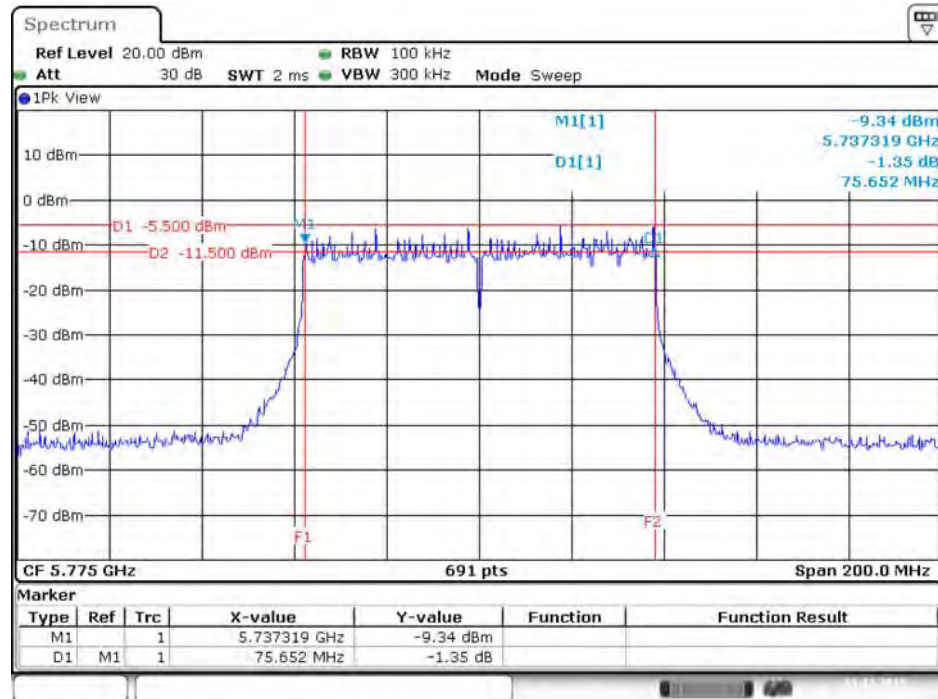


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 6 / 5775 MHz



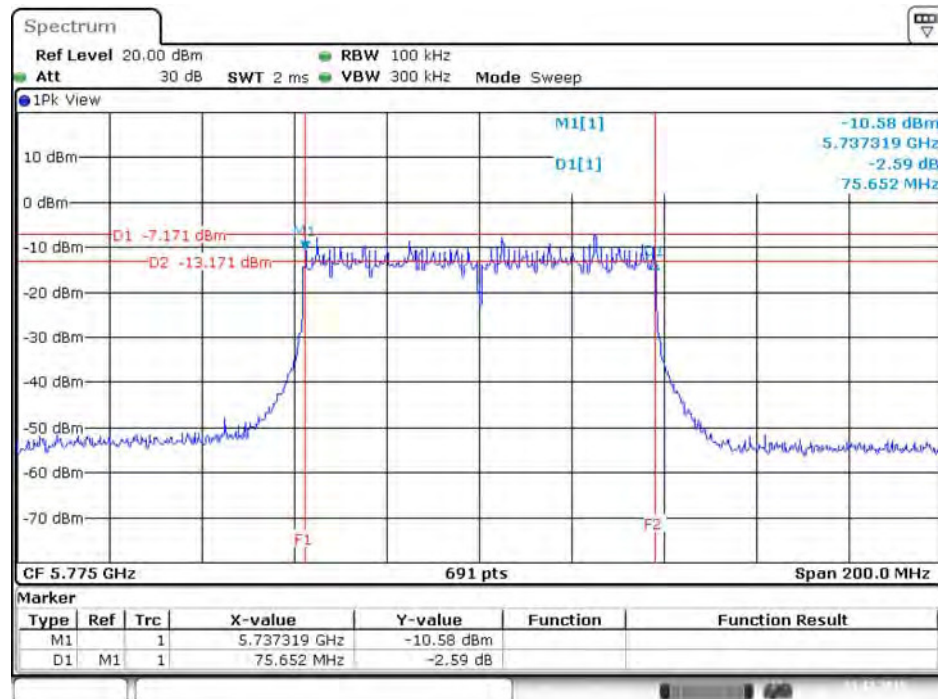


### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 7 / 5775 MHz



Date: 21.DEC.2015 16:17:03

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 8 / 5775 MHz



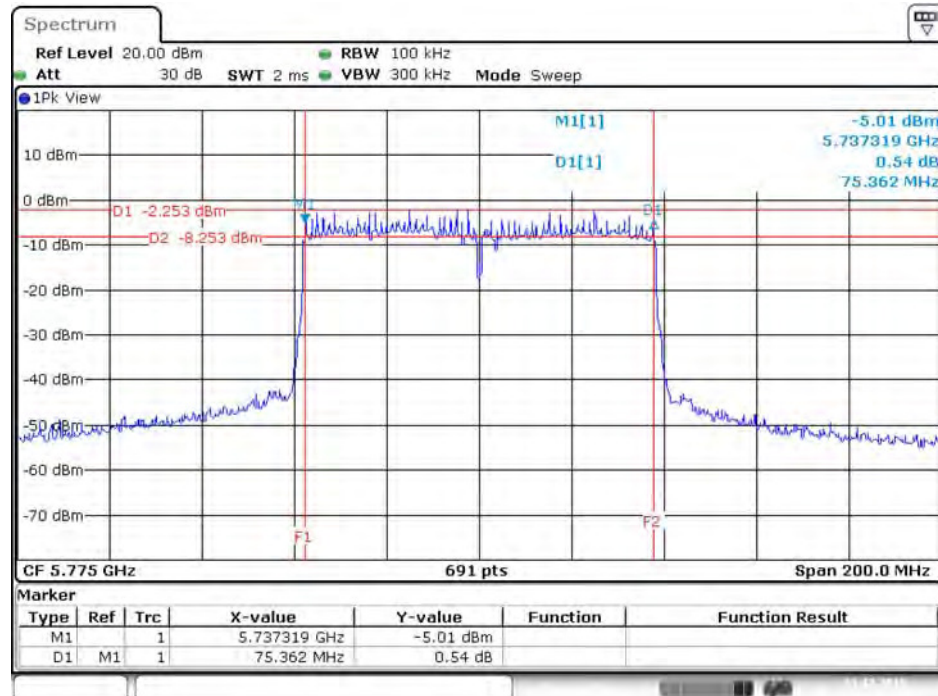
Date: 21.DEC.2015 16:17:56



For 802.11ac MCS0/Nss2 VHT80+80 Mode

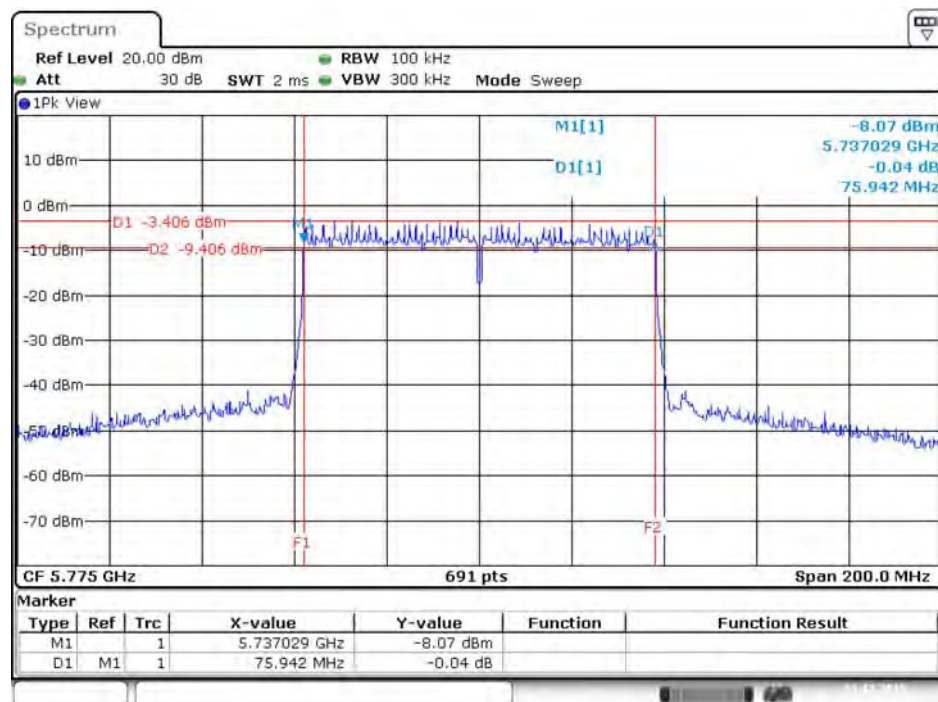
Type 1

6 dB Bandwidth Plot on Chain 7 / 5775 MHz



Date: 21.DEC.2015 23:32:31

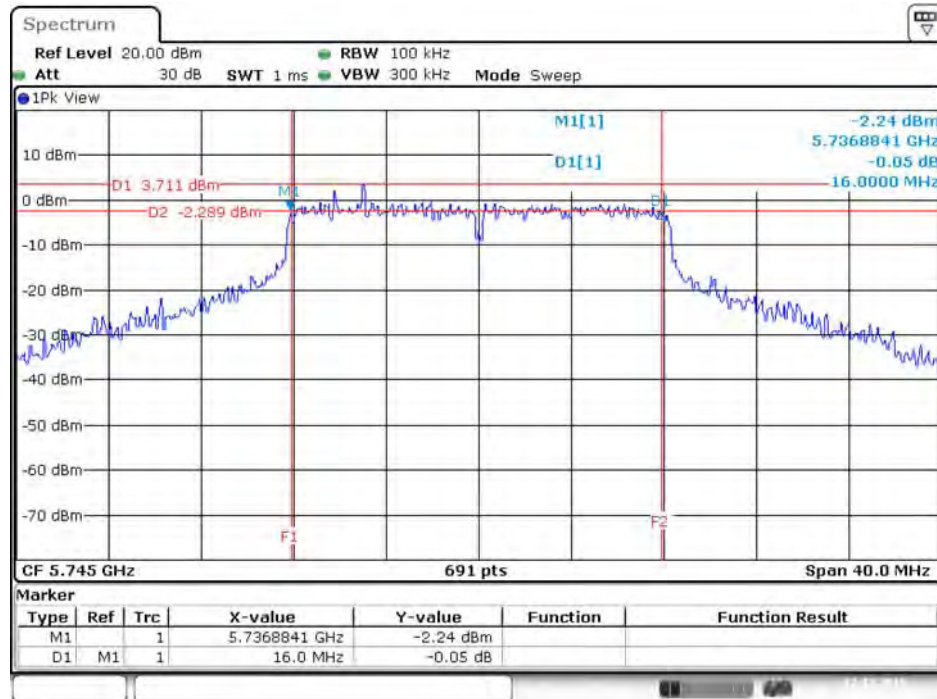
6 dB Bandwidth Plot on Chain 8 / 5775 MHz



Date: 21.DEC.2015 23:33:03

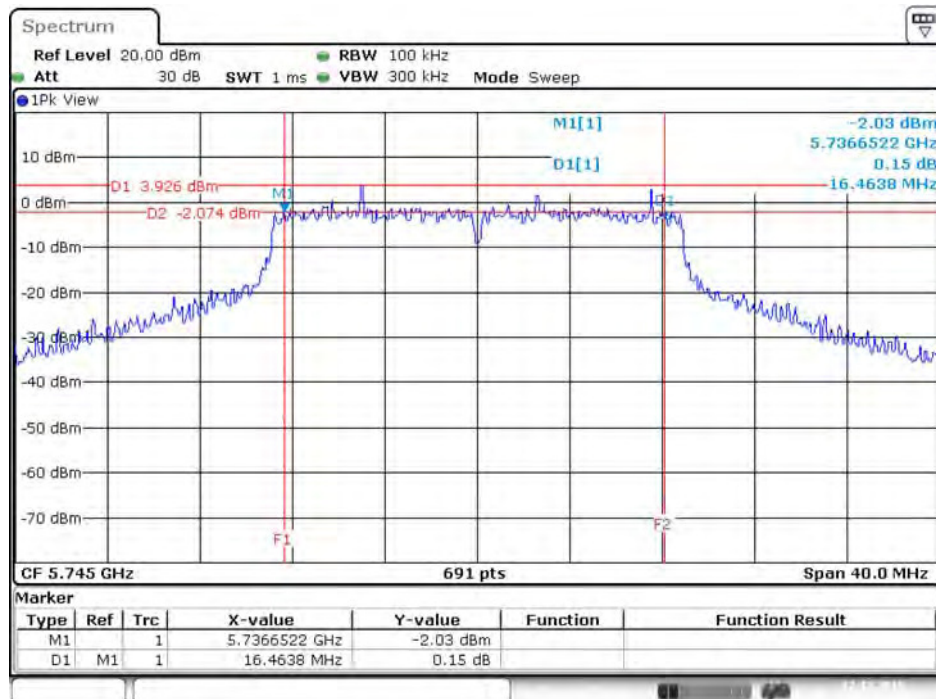
<For Radio 3 Mode>

6 dB Bandwidth Plot on Configuration IEEE 802.11a / Chain 9 / 5745 MHz



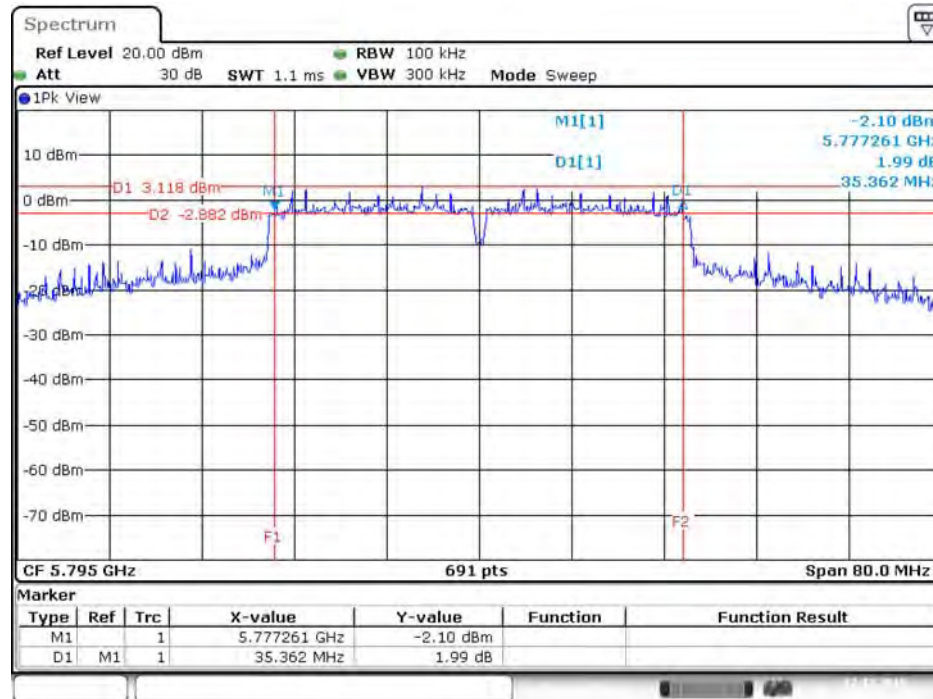
Date: 22.DEC.2015 15:15:35

6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5745 MHz

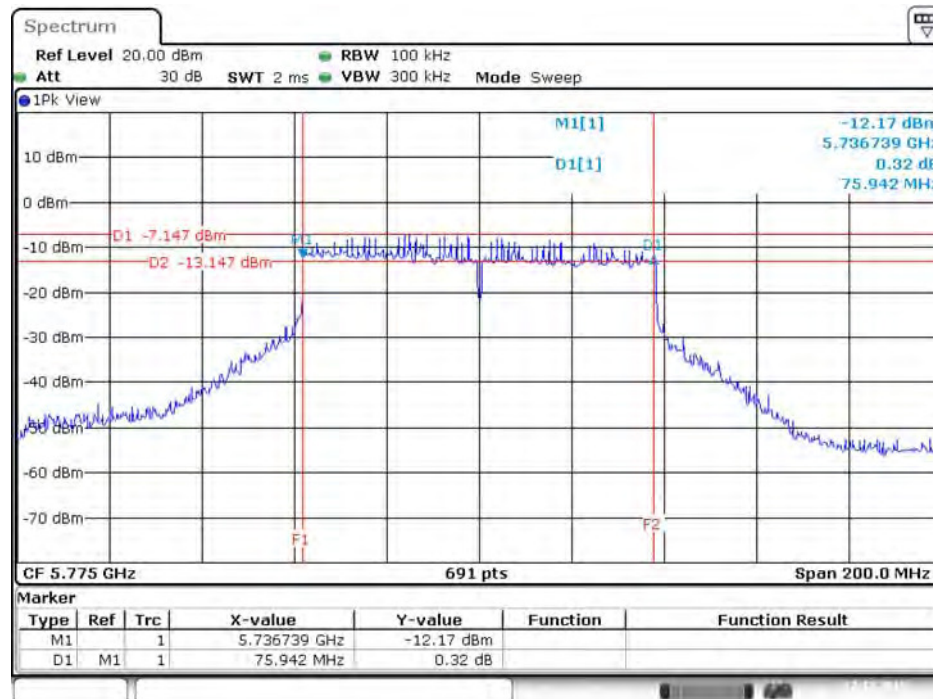


Date: 22.DEC.2015 15:14:58

### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795MHz



### 6 dB Bandwidth Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



#### 4.4. Maximum Conducted Output Power Measurement

##### 4.4.1. Limit

| Frequency Band                      |                                                             | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/> | 5.15~5.25 GHz                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                     | Operating Mode                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                     | <input type="checkbox"/> Outdoor access point               | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).                      |
|                                     | <input checked="" type="checkbox"/> Indoor access point     | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.                                                                                                                                                 |
|                                     | <input type="checkbox"/> Fixed point-to-point access points | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. |
|                                     | <input type="checkbox"/> Mobile and portable client devices | The maximum conducted output power over the frequency band of operation shall not exceed 250 mW (24dBm) provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.                                                                                                                                              |



|   |                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ☒ | 5.725~5.85 GHz | The maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. |
|---|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 4.4.2. Measuring Instruments and Setting

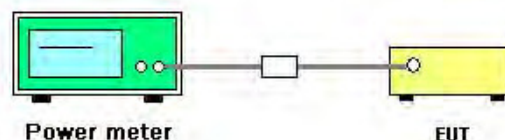
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

| Power Meter Parameter | Setting |
|-----------------------|---------|
| Detector              | AVERAGE |

#### 4.4.3. Test Procedures

1. The transmitter output (antenna port) was connected to the power meter.
2. Test was performed in accordance with KDB 789033 D02 v01r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (E) Maximum conducted output power =>3. Measurement using a Power Meter (PM) =>b) Method PM-G (Measurement using a gated RF average power meter).
3. Multiple antenna systems was performed in accordance with KDB662911 D01 v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band.
4. When measuring maximum conducted output power with multiple antenna systems, add every result of the values by mathematic formula.

#### 4.4.4. Test Setup Layout



#### 4.4.5. Test Deviation

There is no deviation with the original standard.

#### 4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.4.7. Test Result of Maximum Conducted Output Power

|               |          |           |                               |
|---------------|----------|-----------|-------------------------------|
| Temperature   | 25°C     | Humidity  | 45%                           |
| Test Engineer | Mars Lin | Test Date | Sep. 04, 2015 ~ Dec. 22, 2015 |

<For Radio 2 Non-beamforming Mode>

| Mode                           | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|--------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11a                        | 5180 MHz  | 20.17                 | 20.76   | 20.58   | 20.34   | 26.49 | 30.00            | Complies |
|                                | 5200 MHz  | 22.44                 | 23.56   | 22.96   | 22.82   | 28.98 | 30.00            | Complies |
|                                | 5240 MHz  | 22.80                 | 23.62   | 23.25   | 23.03   | 29.21 | 30.00            | Complies |
|                                | 5745 MHz  | 20.38                 | 20.47   | 20.72   | 19.92   | 26.40 | 30.00            | Complies |
|                                | 5785 MHz  | 23.82                 | 24.18   | 23.92   | 23.35   | 29.85 | 30.00            | Complies |
|                                | 5825 MHz  | 20.78                 | 21.18   | 20.87   | 20.49   | 26.86 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1<br>VHT20 | 5180 MHz  | 20.01                 | 20.54   | 20.47   | 20.29   | 26.35 | 30.00            | Complies |
|                                | 5200 MHz  | 22.02                 | 22.79   | 22.54   | 22.28   | 28.44 | 30.00            | Complies |
|                                | 5240 MHz  | 22.73                 | 23.49   | 23.32   | 23.01   | 29.17 | 30.00            | Complies |
|                                | 5745 MHz  | 20.33                 | 20.32   | 20.62   | 19.88   | 26.32 | 30.00            | Complies |
|                                | 5785 MHz  | 23.72                 | 24.14   | 23.85   | 23.42   | 29.81 | 30.00            | Complies |
|                                | 5825 MHz  | 20.54                 | 21.04   | 20.71   | 20.28   | 26.67 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1<br>VHT40 | 5190 MHz  | 18.91                 | 19.53   | 19.48   | 19.11   | 25.29 | 30.00            | Complies |
|                                | 5230 MHz  | 21.01                 | 21.95   | 21.86   | 21.36   | 27.58 | 30.00            | Complies |
|                                | 5755 MHz  | 18.28                 | 18.21   | 18.35   | 17.81   | 24.19 | 30.00            | Complies |
|                                | 5795 MHz  | 20.24                 | 20.55   | 19.96   | 19.97   | 26.21 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1<br>VHT80 | 5210 MHz  | 15.59                 | 15.97   | 16.25   | 16.14   | 22.02 | 30.00            | Complies |
|                                | 5775 MHz  | 12.37                 | 12.23   | 12.19   | 11.84   | 18.18 | 30.00            | Complies |

| Mode                           | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|--------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss4<br>VHT20 | 5180 MHz  | 19.82                 | 19.52   | 19.47   | 19.27   | 25.55 | 30.00            | Complies |
|                                | 5200 MHz  | 20.59                 | 20.33   | 20.37   | 20.24   | 26.41 | 30.00            | Complies |
|                                | 5240 MHz  | 22.82                 | 22.57   | 22.05   | 21.97   | 28.39 | 30.00            | Complies |
|                                | 5745 MHz  | 18.13                 | 18.27   | 18.32   | 17.68   | 24.13 | 30.00            | Complies |
|                                | 5785 MHz  | 22.40                 | 22.07   | 22.37   | 21.64   | 28.15 | 30.00            | Complies |
|                                | 5825 MHz  | 19.61                 | 18.89   | 18.79   | 18.78   | 25.05 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss4<br>VHT40 | 5190 MHz  | 18.19                 | 17.96   | 17.53   | 17.62   | 23.85 | 30.00            | Complies |
|                                | 5230 MHz  | 20.61                 | 20.21   | 19.68   | 19.78   | 26.11 | 30.00            | Complies |
|                                | 5755 MHz  | 18.02                 | 17.75   | 18.18   | 17.39   | 23.87 | 30.00            | Complies |
|                                | 5795 MHz  | 19.53                 | 19.07   | 19.37   | 19.23   | 25.32 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss4<br>VHT80 | 5210 MHz  | 15.61                 | 15.60   | 15.41   | 15.57   | 21.57 | 30.00            | Complies |
|                                | 5775 MHz  | 15.47                 | 15.15   | 15.62   | 14.91   | 21.32 | 30.00            | Complies |

| Mode                              | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|-----------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                   |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss2<br>VHT80+80 | 5210 MHz  | 14.85                 | 14.50   | -       | -       | 17.69 | 30.00            | Complies |
|                                   | 5775 MHz  | -                     | -       | 13.62   | 14.36   | 17.02 | 30.00            | Complies |

<For Radio 2 Beamforming Mode>

| Mode                           | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|--------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss1<br>VHT20 | 5180 MHz  | 17.24                 | 18.97   | 17.21   | 17.29   | 23.77 | 29.03            | Complies |
|                                | 5200 MHz  | 16.05                 | 19.51   | 17.22   | 16.25   | 23.51 | 29.03            | Complies |
|                                | 5240 MHz  | 16.97                 | 19.07   | 17.09   | 16.57   | 23.56 | 29.03            | Complies |
|                                | 5745 MHz  | 18.22                 | 17.97   | 18.03   | 17.03   | 23.86 | 25.95            | Complies |
|                                | 5785 MHz  | 16.92                 | 17.38   | 17.07   | 17.93   | 23.36 | 25.95            | Complies |
|                                | 5825 MHz  | 16.57                 | 17.52   | 17.34   | 17.85   | 23.37 | 25.95            | Complies |
| 802.11ac<br>MCS0/Nss1<br>VHT40 | 5190 MHz  | 14.55                 | 15.21   | 14.93   | 15.11   | 20.98 | 29.03            | Complies |
|                                | 5230 MHz  | 18.99                 | 19.12   | 18.94   | 18.42   | 24.90 | 29.03            | Complies |
|                                | 5755 MHz  | 15.57                 | 16.24   | 16.54   | 15.11   | 21.92 | 25.95            | Complies |
|                                | 5795 MHz  | 18.24                 | 18.17   | 17.12   | 18.66   | 24.10 | 25.95            | Complies |
| 802.11ac<br>MCS0/Nss1<br>VHT80 | 5210 MHz  | 14.45                 | 14.97   | 14.69   | 14.68   | 20.72 | 29.03            | Complies |
|                                | 5775 MHz  | 12.74                 | 11.27   | 11.49   | 11.72   | 17.86 | 25.95            | Complies |

Note:

$$\text{Band 1: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 30 - (6.97 - 6) = 29.03 \text{ dBm.}$$

$$\text{Band 4: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm.}$$



| Mode                           | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|--------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss2<br>VHT20 | 5180 MHz  | 15.90                 | 16.37   | 16.66   | 17.20   | 22.58 | 30.00            | Complies |
|                                | 5200 MHz  | 15.94                 | 16.82   | 16.91   | 17.23   | 22.77 | 30.00            | Complies |
|                                | 5240 MHz  | 15.96                 | 16.85   | 17.43   | 17.17   | 22.91 | 30.00            | Complies |
|                                | 5745 MHz  | 19.35                 | 19.05   | 20.34   | 19.51   | 25.61 | 28.84            | Complies |
|                                | 5785 MHz  | 20.07                 | 20.13   | 20.33   | 20.42   | 26.26 | 28.84            | Complies |
|                                | 5825 MHz  | 20.32                 | 19.30   | 20.56   | 20.73   | 26.28 | 28.84            | Complies |
| 802.11ac<br>MCS0/Nss2<br>VHT40 | 5190 MHz  | 15.06                 | 15.54   | 16.00   | 16.43   | 21.81 | 30.00            | Complies |
|                                | 5230 MHz  | 17.23                 | 17.78   | 17.95   | 18.44   | 23.89 | 30.00            | Complies |
|                                | 5755 MHz  | 16.66                 | 15.44   | 16.14   | 16.08   | 22.12 | 28.84            | Complies |
|                                | 5795 MHz  | 19.00                 | 19.02   | 19.52   | 19.91   | 25.40 | 28.84            | Complies |
| 802.11ac<br>MCS0/Nss2<br>VHT80 | 5210 MHz  | 14.08                 | 14.41   | 14.75   | 14.88   | 20.56 | 30.00            | Complies |
|                                | 5775 MHz  | 12.64                 | 12.23   | 12.85   | 12.72   | 18.64 | 28.84            | Complies |

Note:

$$\text{Band 1: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi, } < 6 \text{ dBi, so the limit doesn't reduce.}$$

$$\text{Band 4: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi, so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm.}$$

| Mode                           | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|--------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss3<br>VHT20 | 5180 MHz  | 16.92                 | 17.20   | 17.49   | 17.85   | 23.40 | 30.00            | Complies |
|                                | 5200 MHz  | 16.91                 | 17.61   | 17.78   | 18.02   | 23.62 | 30.00            | Complies |
|                                | 5240 MHz  | 16.84                 | 17.60   | 18.05   | 18.02   | 23.67 | 30.00            | Complies |
|                                | 5745 MHz  | 13.26                 | 12.91   | 13.53   | 13.21   | 19.25 | 30.00            | Complies |
|                                | 5785 MHz  | 20.43                 | 20.61   | 20.51   | 21.06   | 26.68 | 30.00            | Complies |
|                                | 5825 MHz  | 15.89                 | 15.61   | 16.12   | 16.32   | 22.01 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss3<br>VHT40 | 5190 MHz  | 13.48                 | 13.34   | 14.05   | 14.27   | 19.82 | 30.00            | Complies |
|                                | 5230 MHz  | 17.04                 | 17.78   | 18.25   | 18.13   | 23.85 | 30.00            | Complies |
|                                | 5755 MHz  | 15.41                 | 15.07   | 15.33   | 15.37   | 21.32 | 30.00            | Complies |
|                                | 5795 MHz  | 17.06                 | 17.28   | 17.23   | 17.63   | 23.33 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss3<br>VHT80 | 5210 MHz  | 14.24                 | 14.74   | 15.01   | 15.28   | 20.85 | 30.00            | Complies |
|                                | 5775 MHz  | 14.25                 | 14.05   | 14.37   | 14.27   | 20.26 | 30.00            | Complies |

$$\text{Band 1: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

$$\text{Band 4: } \text{DirectionalGain} = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

| Mode                              | Frequency | Conducted Power (dBm) |         |         |         |       | Max. Limit (dBm) | Result   |
|-----------------------------------|-----------|-----------------------|---------|---------|---------|-------|------------------|----------|
|                                   |           | Chain 5               | Chain 6 | Chain 7 | Chain 8 | Total |                  |          |
| 802.11ac<br>MCS0/Nss2<br>VHT80+80 | 5210 MHz  | 17.12                 | 17.68   | -       | -       | 20.42 | 30.00            | Complies |
|                                   | 5775 MHz  | -                     | -       | 18.21   | 18.98   | 21.62 | 28.84            | Complies |

Band 1:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$

Band 4:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm.}$

<For Radio 3 Mode>

| Mode                        | Frequency | Conducted Power (dBm) | Max. Limit (dBm) | Result   |
|-----------------------------|-----------|-----------------------|------------------|----------|
| 802.11a                     | 5180 MHz  | 19.63                 | 30.00            | Complies |
|                             | 5200 MHz  | 21.37                 | 30.00            | Complies |
|                             | 5240 MHz  | 15.57                 | 30.00            | Complies |
|                             | 5745 MHz  | 16.01                 | 30.00            | Complies |
|                             | 5785 MHz  | 20.88                 | 30.00            | Complies |
|                             | 5825 MHz  | 20.14                 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1 VHT20 | 5180 MHz  | 19.02                 | 30.00            | Complies |
|                             | 5200 MHz  | 21.78                 | 30.00            | Complies |
|                             | 5240 MHz  | 14.95                 | 30.00            | Complies |
|                             | 5745 MHz  | 16.15                 | 30.00            | Complies |
|                             | 5785 MHz  | 20.59                 | 30.00            | Complies |
|                             | 5825 MHz  | 18.45                 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1 VHT40 | 5190 MHz  | 13.93                 | 30.00            | Complies |
|                             | 5230 MHz  | 16.91                 | 30.00            | Complies |
|                             | 5755 MHz  | 13.95                 | 30.00            | Complies |
|                             | 5795 MHz  | 19.41                 | 30.00            | Complies |
| 802.11ac<br>MCS0/Nss1 VHT80 | 5210 MHz  | 11.61                 | 30.00            | Complies |
|                             | 5775 MHz  | 12.22                 | 30.00            | Complies |



## 4.5. Power Spectral Density Measurement

### 4.5.1. Limit

The following table is power spectral density limits and decrease power density limit rule refer to section 4.4.1.

| Frequency Band                      |                                    | Limit         |
|-------------------------------------|------------------------------------|---------------|
| <input checked="" type="checkbox"/> | 5.15~5.25 GHz                      |               |
|                                     | Operating Mode                     |               |
| <input type="checkbox"/>            | Outdoor access point               | 17 dBm/MHz    |
| <input checked="" type="checkbox"/> | Indoor access point                | 17 dBm/MHz    |
| <input type="checkbox"/>            | Fixed point-to-point access points | 17 dBm/MHz    |
| <input type="checkbox"/>            | Mobile and portable client devices | 11 dBm/MHz    |
| <input checked="" type="checkbox"/> | 5.725~5.85 GHz                     | 30 dBm/500kHz |

### 4.5.2. Measuring Instruments and Setting

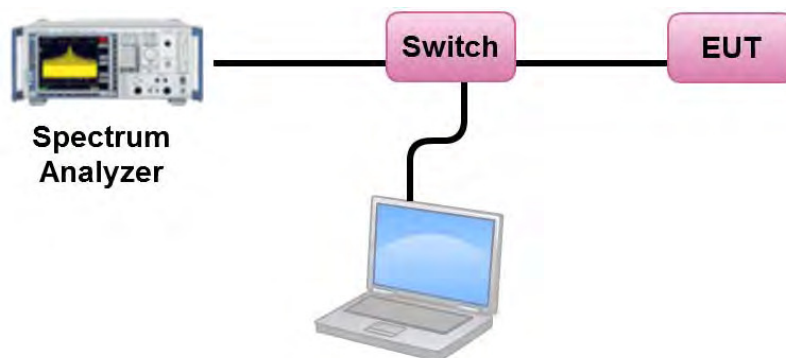
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter                                                                                                                                                                                                                                 | Setting                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Attenuation                                                                                                                                                                                                                                        | Auto                                                         |
| Span Frequency                                                                                                                                                                                                                                     | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW                                                                                                                                                                                                                                                | 1000 kHz                                                     |
| VBW                                                                                                                                                                                                                                                | 3000 kHz                                                     |
| Detector                                                                                                                                                                                                                                           | RMS                                                          |
| Trace                                                                                                                                                                                                                                              | AVERAGE                                                      |
| Sweep Time                                                                                                                                                                                                                                         | Auto                                                         |
| Trace Average                                                                                                                                                                                                                                      | 100 times                                                    |
| Note: If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement. |                                                              |

#### 4.5.3. Test Procedures

1. The transmitter output (antenna port) was connected RF switch to the spectrum analyzer.
2. Test was performed in accordance with KDB 789033 D02 v01r01 for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - section (F) Maximum Power Spectral Density (PSD).
3. Multiple antenna systems was performed in accordance KDB662911 D01 v02r01 in-Band Power Spectral Density (PSD) Measurements (a) Measure and sum the spectra across the outputs.
4. When measuring first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3 and so on up to the Nth output to obtain the value for the first frequency bin of the summed spectrum. The summed spectrum value for each of the other frequency bins is computed in the same way.
5. For 5.725~5.85 GHz, the measured result of PSD level must add  $10\log(500\text{kHz}/\text{RBW})$  and the final result should  $\leq 30$  dBm.

#### 4.5.4. Test Setup Layout



#### 4.5.5. Test Deviation

There is no deviation with the original standard.

#### 4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.5.7. Test Result of Power Spectral Density

|               |          |          |     |
|---------------|----------|----------|-----|
| Temperature   | 25°C     | Humidity | 45% |
| Test Engineer | Mars Lin |          |     |

<For Radio 2 Non-beamforming Mode>

Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 13.41                   | 16.03                | Complies |
| 40      | 5200 MHz  | 15.98                   | 16.03                | Complies |
| 48      | 5240 MHz  | 15.98                   | 16.03                | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$ , so limit = 17-(6.97-6)=16.03 dBm/MHz.

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 13.36                   | -3.01                         | 10.35                      | 25.95                            | Complies |
| 157     | 5785 MHz  | 16.06                   | -3.01                         | 13.05                      | 25.95                            | Complies |
| 165     | 5825 MHz  | 13.75                   | -3.01                         | 10.74                      | 25.95                            | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$ , so limit = 30-(10.05-6)=25.95 dBm/MHz.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 13.28                   | 16.03                | Complies |
| 40      | 5200 MHz  | 15.17                   | 16.03                | Complies |
| 48      | 5240 MHz  | 15.94                   | 16.03                | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$ , so limit = 17-(6.97-6)= 16.03 dBm/MHz.

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 13.19                   | -3.01                         | 10.18                      | 25.95                            | Complies |
| 157     | 5785 MHz  | 16.06                   | -3.01                         | 13.05                      | 25.95                            | Complies |
| 165     | 5825 MHz  | 13.62                   | -3.01                         | 10.61                      | 25.95                            | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$ , so limit = 30-(10.05-6)= 25.95 dBm/MHz.



**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | 9.17                    | 16.03                | Complies |
| 46      | 5230 MHz  | 11.52                   | 16.03                | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$ , so limit = 17-(6.97-6)= 16.03 dBm/MHz.

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | 8.05                    | -3.01                         | 5.04                       | 25.95                            | Complies |
| 159     | 5795 MHz  | 9.98                    | -3.01                         | 6.97                       | 25.95                            | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$ , so limit = 30-(10.05-6)=25.95 dBm/MHz.

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 2.79                    | 16.03                | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi}$ , so limit = 17-(6.97-6)= 16.03 dBm/MHz.

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | -0.89                   | -3.01                         | -3.90                      | 25.95                            | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi}$ , so limit = 30-(10.05-6)= 25.95 dBm/MHz.

**Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 12.29                   | 17.00                | Complies |
| 40      | 5200 MHz  | 13.18                   | 17.00                | Complies |
| 48      | 5240 MHz  | 15.23                   | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 11.02                   | -3.01                         | 8.01                       | 30.00                            | Complies |
| 157     | 5785 MHz  | 14.93                   | -3.01                         | 11.92                      | 30.00                            | Complies |
| 165     | 5825 MHz  | 11.88                   | -3.01                         | 8.87                       | 30.00                            | Complies |

**Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | 7.55                    | 17.00                | Complies |
| 46      | 5230 MHz  | 9.78                    | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | 7.79                    | -3.01                         | 4.78                       | 30.00                            | Complies |
| 159     | 5795 MHz  | 9.16                    | -3.01                         | 6.15                       | 30.00                            | Complies |

**Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 2.44                    | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | 2.06                    | -3.01                         | -0.95                      | 30.00                            | Complies |

**802.11ac MCS0/Nss2 VHT80+80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | -1.52                   | 17.00                | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | -2.07                   | -3.01                         | -5.08                      | 28.84                            | Complies |

Note:  $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$



<For Radio 2 Beamforming Mode>

Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 10.70                   | 16.03                | Complies |
| 40      | 5200 MHz  | 10.48                   | 16.03                | Complies |
| 48      | 5240 MHz  | 10.47                   | 16.03                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 10.24                   | -3.01                         | 7.23                       | 25.95                            | Complies |
| 157     | 5785 MHz  | 10.23                   | -3.01                         | 7.22                       | 25.95                            | Complies |
| 165     | 5825 MHz  | 10.29                   | -3.01                         | 7.28                       | 25.95                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | 4.85                    | 16.03                | Complies |
| 46      | 5230 MHz  | 8.80                    | 16.03                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | 5.85                    | -3.01                         | 2.84                       | 25.95                            | Complies |
| 159     | 5795 MHz  | 7.99                    | -3.01                         | 4.98                       | 25.95                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 1.66                    | 16.03                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 6.97 \text{ dBi, so limit} = 17 - (6.97 - 6) = 16.03 \text{ dBm/MHz.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | -1.26                   | -3.01                         | -4.27                      | 25.95                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 10.05 \text{ dBi, so limit} = 30 - (10.05 - 6) = 25.95 \text{ dBm/MHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 9.39                    | 17.00                | Complies |
| 40      | 5200 MHz  | 9.56                    | 17.00                | Complies |
| 48      | 5240 MHz  | 9.69                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 12.54                   | -3.01                         | 9.53                       | 28.84                            | Complies |
| 157     | 5785 MHz  | 12.96                   | -3.01                         | 9.95                       | 28.84                            | Complies |
| 165     | 5825 MHz  | 13.00                   | -3.01                         | 9.99                       | 28.84                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | 5.55                    | 17.00                | Complies |
| 46      | 5230 MHz  | 7.86                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | 5.96                    | -3.01                         | 2.95                       | 28.84                            | Complies |
| 159     | 5795 MHz  | 9.19                    | -3.01                         | 6.18                       | 28.84                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$



**Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 1.47                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | -0.58                   | -3.01                         | -3.59                      | 28.84                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$

**Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 10.26                   | 17.00                | Complies |
| 40      | 5200 MHz  | 10.51                   | 17.00                | Complies |
| 48      | 5240 MHz  | 10.46                   | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 5.99                    | -3.01                         | 2.98                       | 30.00                            | Complies |
| 157     | 5785 MHz  | 13.57                   | -3.01                         | 10.56                      | 30.00                            | Complies |
| 165     | 5825 MHz  | 8.95                    | -3.01                         | 5.94                       | 30.00                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

**Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | 3.74                    | 17.00                | Complies |
| 46      | 5230 MHz  | 7.59                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | 5.11                    | -3.01                         | 2.10                       | 30.00                            | Complies |
| 159     | 5795 MHz  | 7.19                    | -3.01                         | 4.18                       | 30.00                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

**Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 1.63                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 3.18 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | 1.12                    | -3.01                         | -1.89                      | 30.00                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 5.40 \text{ dBi}, < 6\text{dBi}, \text{ so the limit doesn't reduce.}$$

## 802.11ac MCS0/Nss2 VHT80+80 / Chain 5 + Chain 6 + Chain 7 + Chain 8

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | 1.34                    | 17.00                | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 4.94 \text{ dBi}, < 6 \text{ dBi}, \text{ so the limit doesn't reduce.}$$

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | 1.95                    | -3.01                         | -1.06                      | 28.84                            | Complies |

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right] = 7.16 \text{ dBi}, \text{ so limit} = 30 - (7.16 - 6) = 28.84 \text{ dBm/MHz.}$$



|               |          |          |     |
|---------------|----------|----------|-----|
| Temperature   | 25°C     | Humidity | 45% |
| Test Engineer | Mars Lin |          |     |

<For Radio 3 Mode>

#### Configuration IEEE 802.11a / Chain 9

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 6.57                    | 17.00                | Complies |
| 40      | 5200 MHz  | 8.16                    | 17.00                | Complies |
| 48      | 5240 MHz  | 2.28                    | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW)<br>Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|----------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 2.80                    | -3.01                            | -0.21                      | 30.00                            | Complies |
| 157     | 5785 MHz  | 7.65                    | -3.01                            | 4.64                       | 30.00                            | Complies |
| 165     | 5825 MHz  | 6.96                    | -3.01                            | 3.95                       | 30.00                            | Complies |

#### Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 36      | 5180 MHz  | 5.96                    | 17.00                | Complies |
| 40      | 5200 MHz  | 8.52                    | 17.00                | Complies |
| 48      | 5240 MHz  | 1.68                    | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW)<br>Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|----------------------------------|----------------------------|----------------------------------|----------|
| 149     | 5745 MHz  | 3.14                    | -3.01                            | 0.13                       | 30.00                            | Complies |
| 157     | 5785 MHz  | 7.59                    | -3.01                            | 4.58                       | 30.00                            | Complies |
| 165     | 5825 MHz  | 5.38                    | -3.01                            | 2.37                       | 30.00                            | Complies |

**Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 38      | 5190 MHz  | -2.12                   | 17.00                | Complies |
| 46      | 5230 MHz  | 0.88                    | 17.00                | Complies |

| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 151     | 5755 MHz  | -2.75                   | -3.01                         | -5.76                      | 30.00                            | Complies |
| 159     | 5795 MHz  | 2.97                    | -3.01                         | -0.04                      | 30.00                            | Complies |

**Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9**

| Channel | Frequency | Power Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result   |
|---------|-----------|-------------------------|----------------------|----------|
| 42      | 5210 MHz  | -7.73                   | 17.00                | Complies |

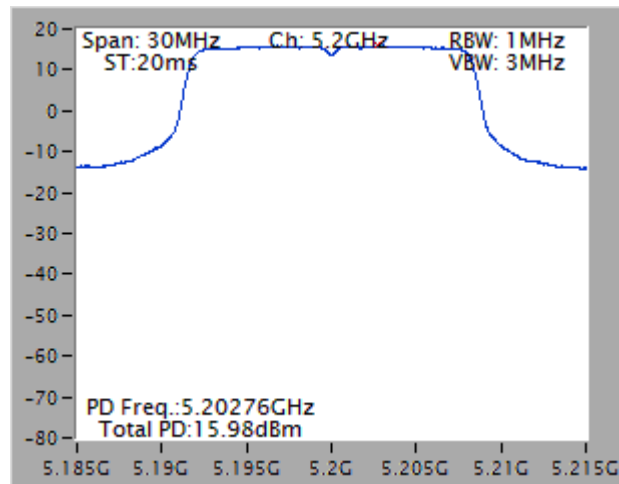
| Channel | Frequency | Power Density (dBm/MHz) | 10log(500kHz/RBW) Factor (dB) | Power Density (dBm/500kHz) | Power Density Limit (dBm/500kHz) | Result   |
|---------|-----------|-------------------------|-------------------------------|----------------------------|----------------------------------|----------|
| 155     | 5775 MHz  | -10.93                  | -3.01                         | -13.94                     | 30.00                            | Complies |

Note: All the test values were listed in the report.

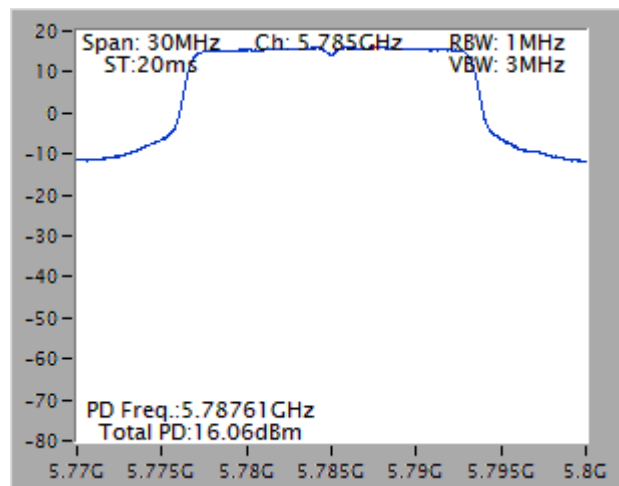
For plots, only the channel with worse result was shown.

<For Radio 2 Non-beamforming Mode>

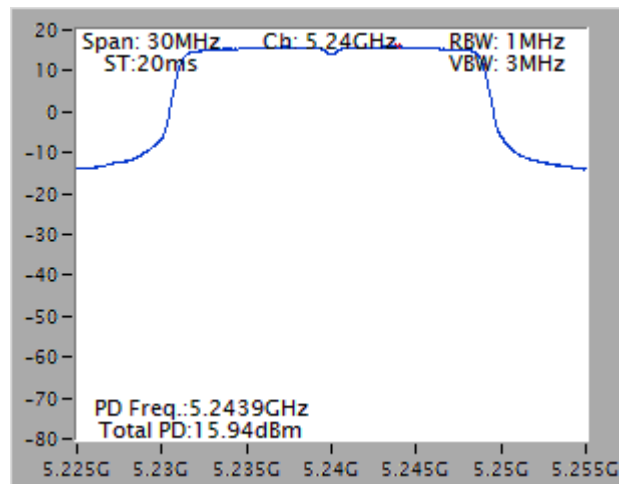
Power Density Plot on Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5200 MHz



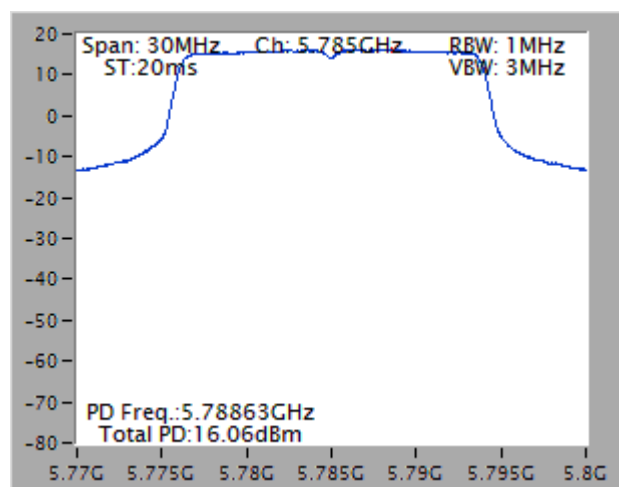
Power Density Plot on Configuration IEEE 802.11a / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



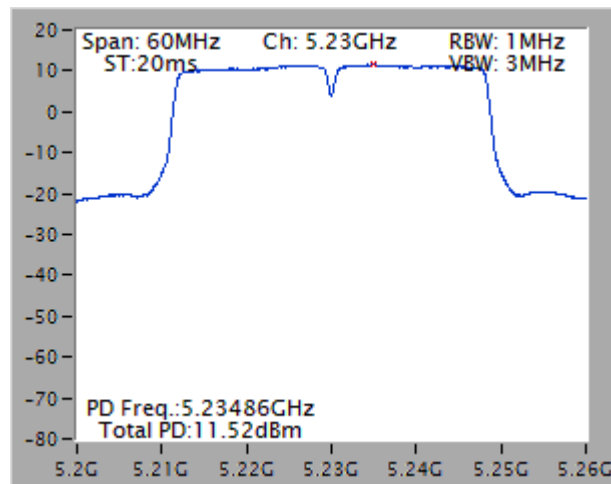
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz



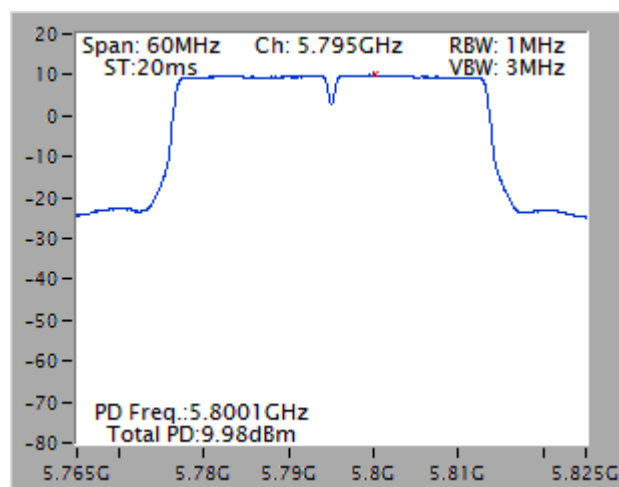
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz

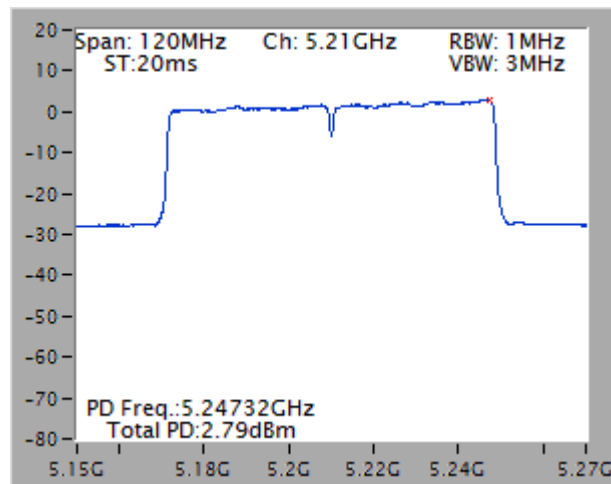


Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz

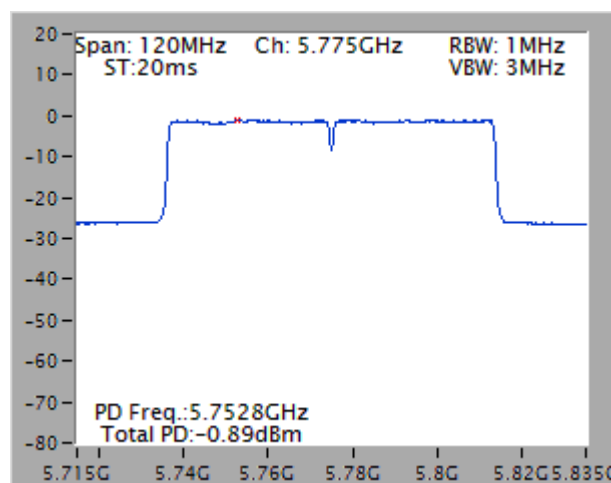




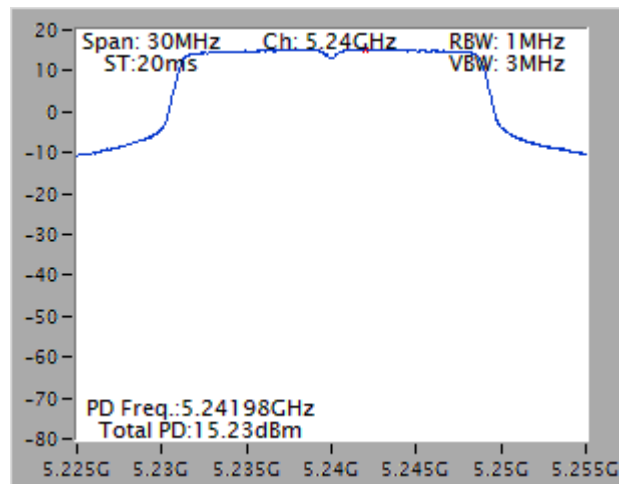
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz**



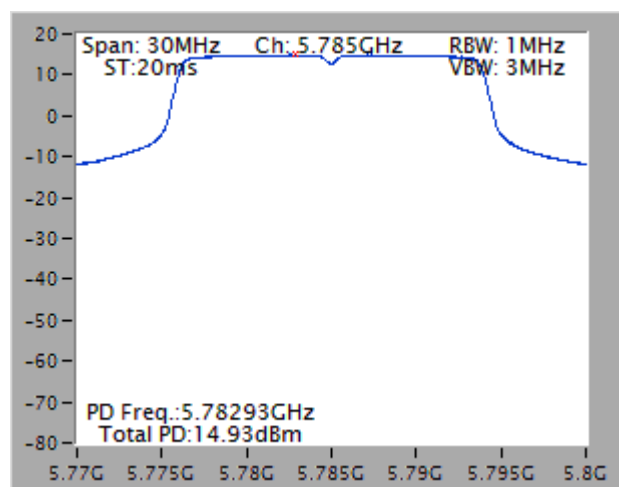
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz**



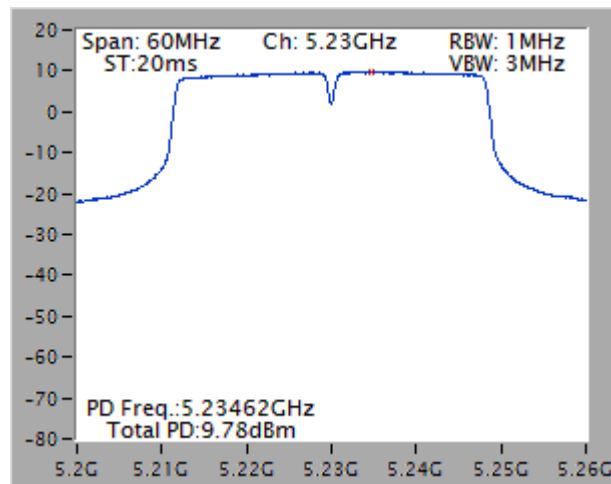
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz



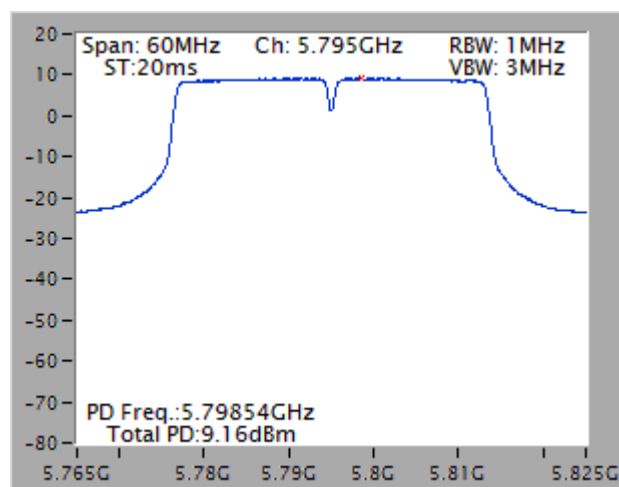
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz



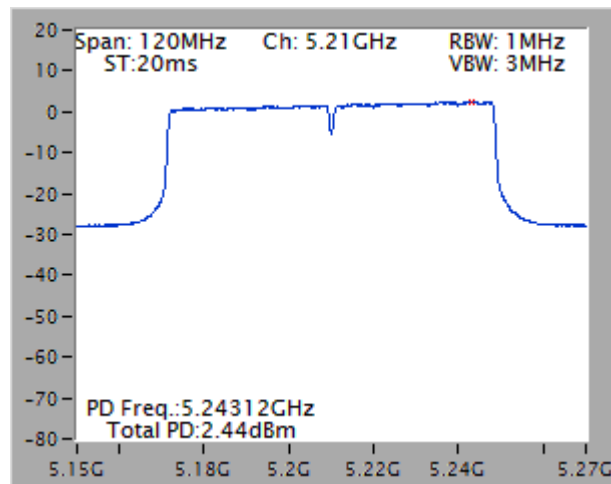
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz



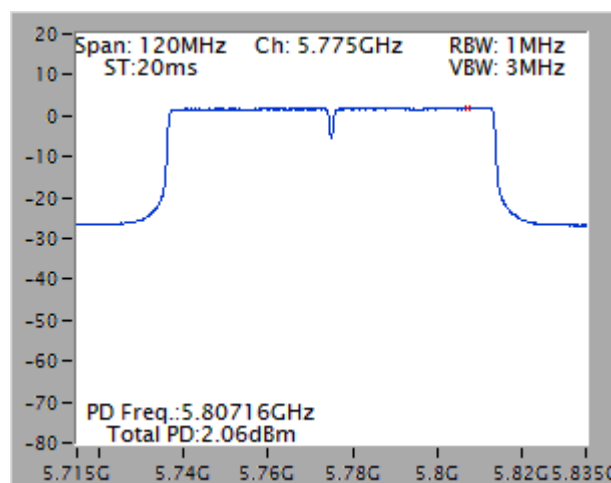
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz



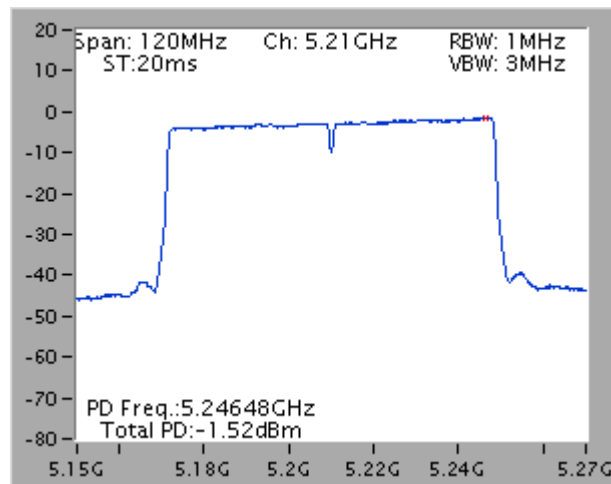
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss4 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz



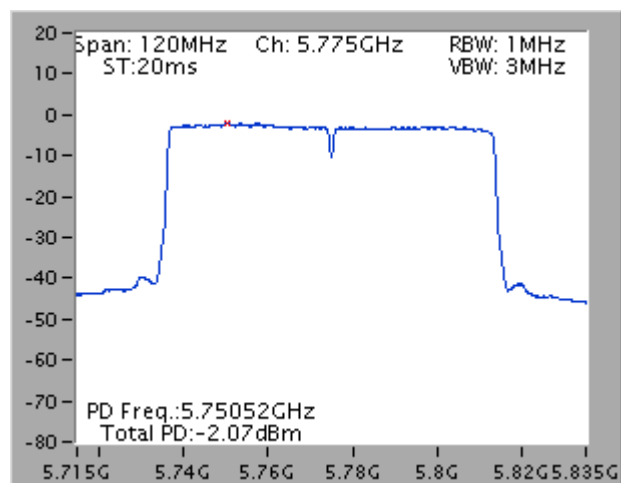
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

Power Density Plot on Chain 5 + Chain 6 / 5210 MHz



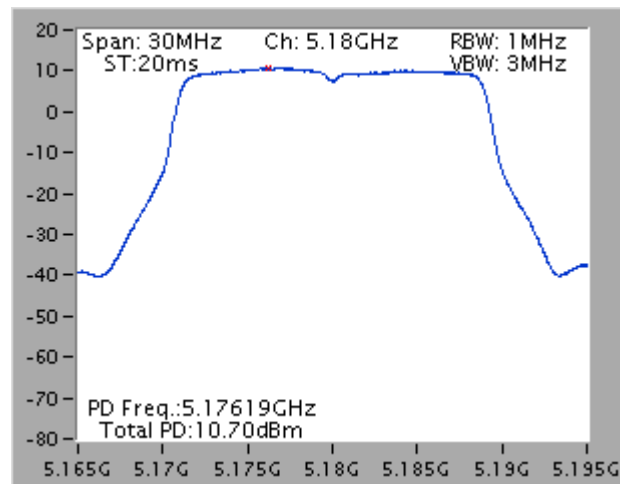
Power Density Plot on Chain 7 + Chain 8 / 5775 MHz



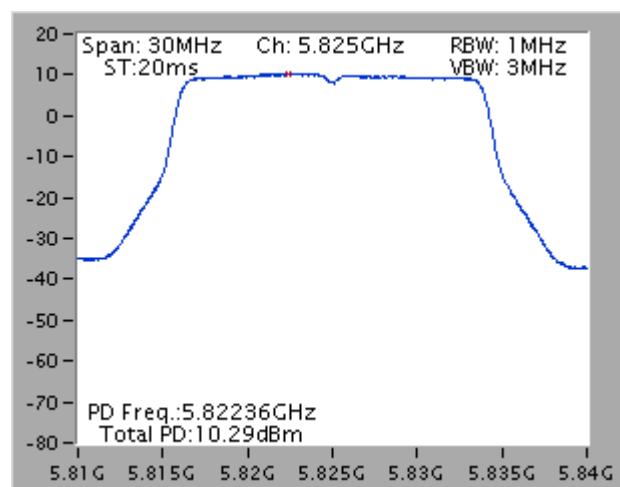


<For Radio 2 Beamforming Mode>

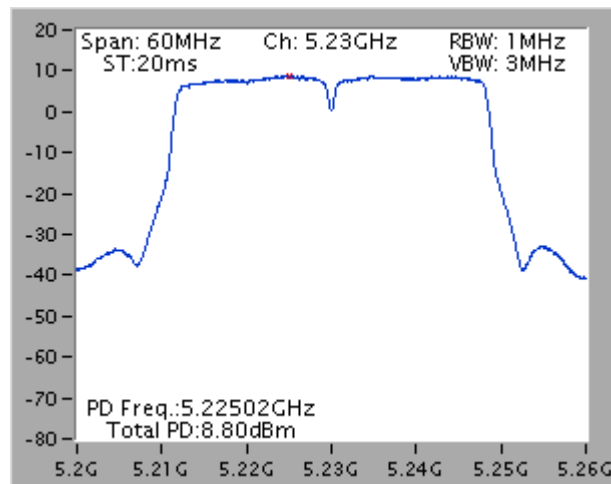
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5180 MHz



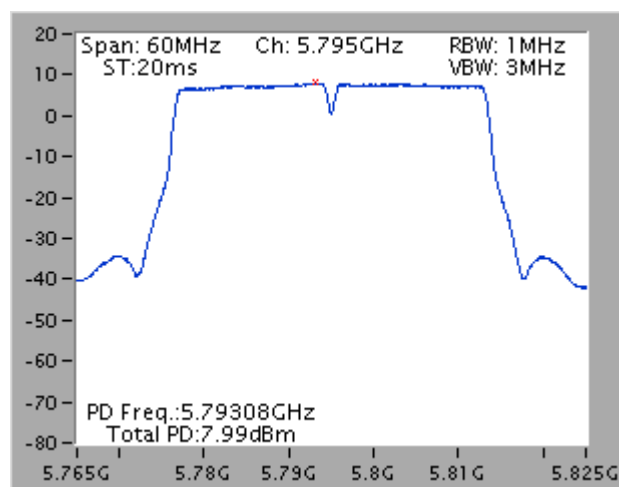
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5825 MHz



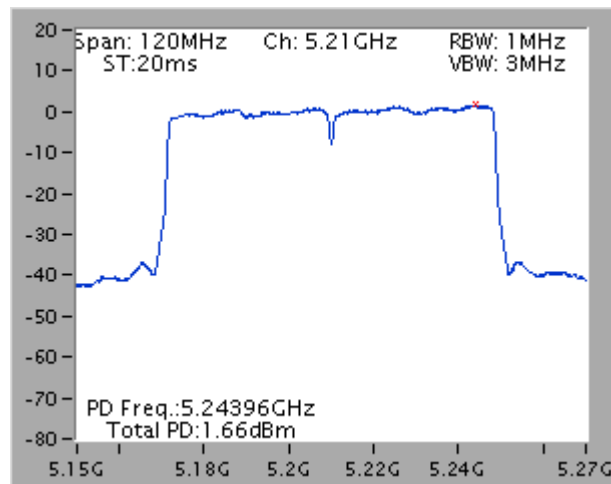
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz**



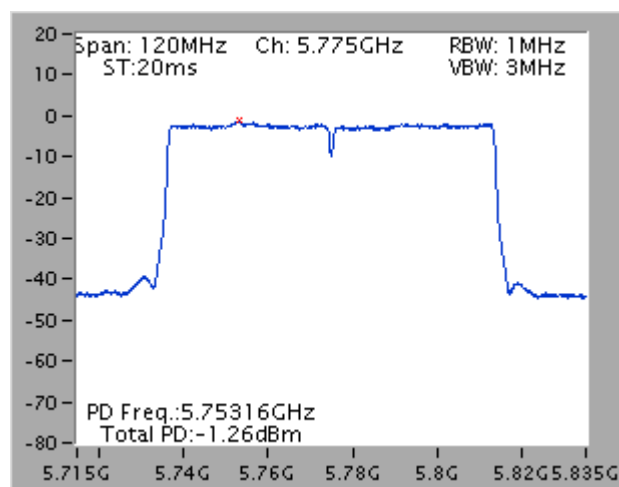
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz**



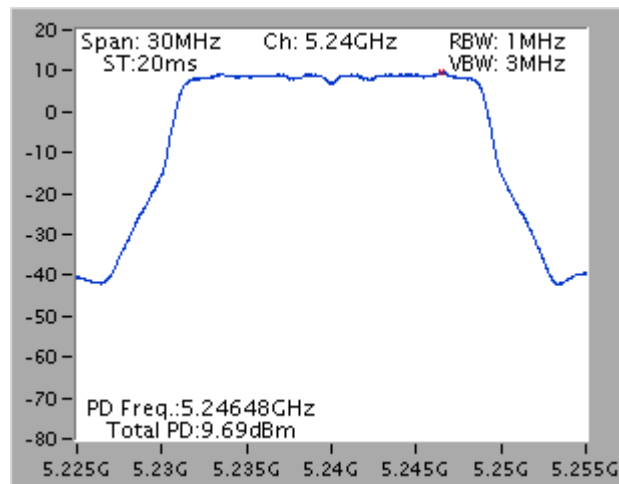
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz**



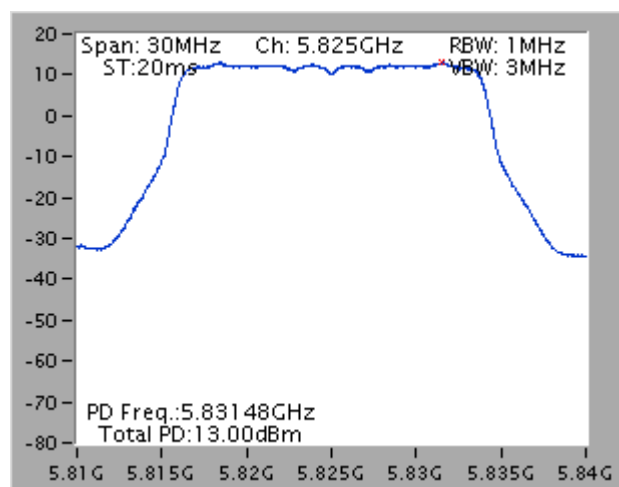
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz**



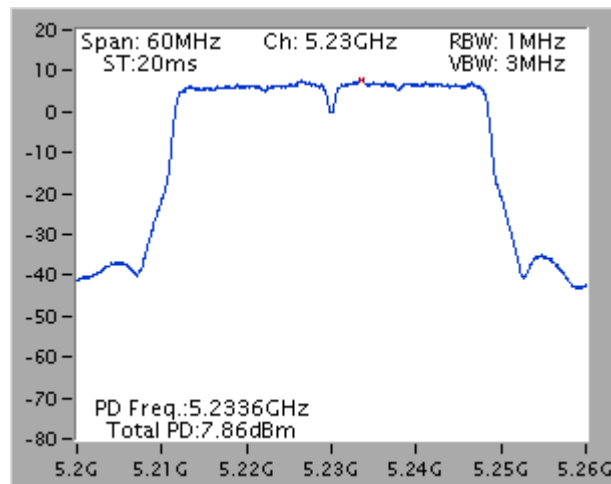
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5240 MHz**



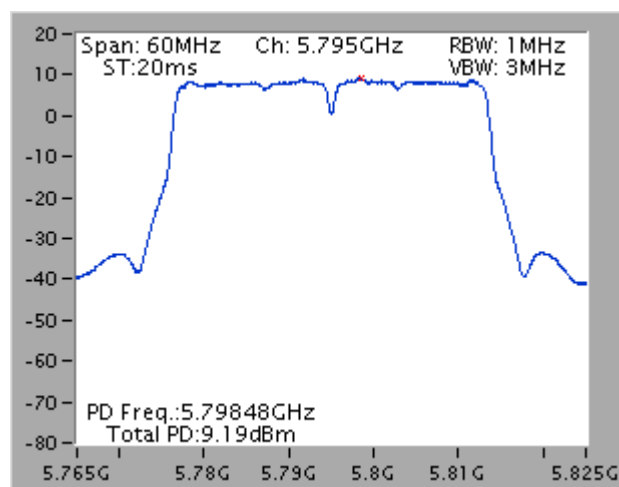
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5825 MHz**



**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz**

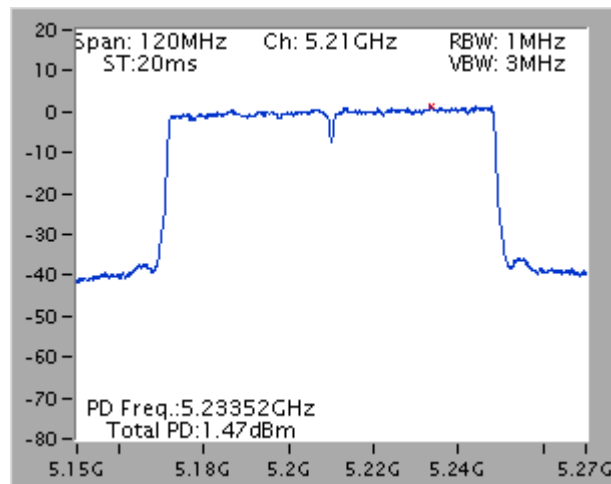


**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz**

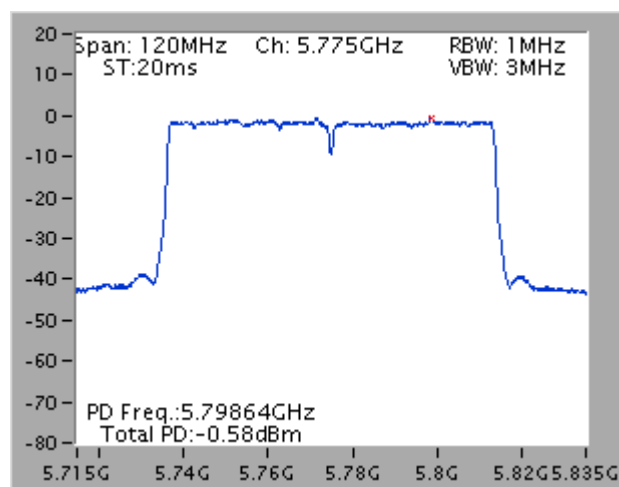




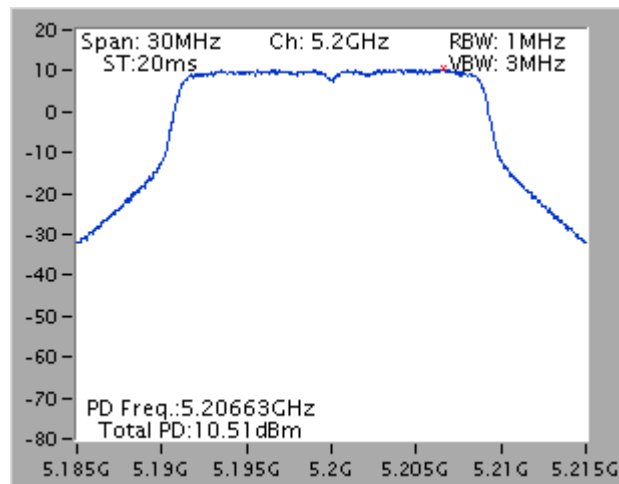
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz**



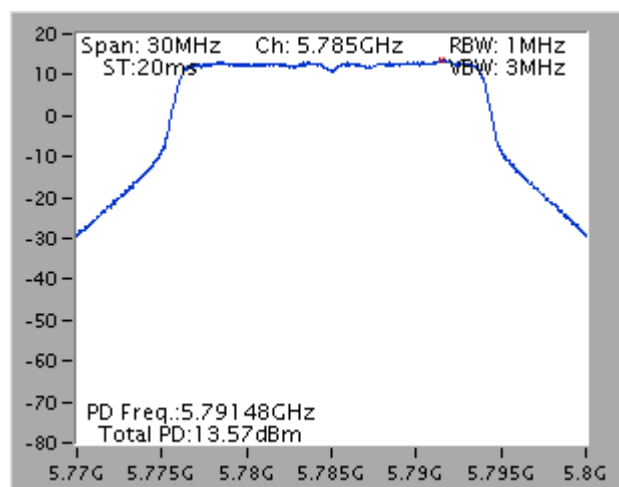
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz**



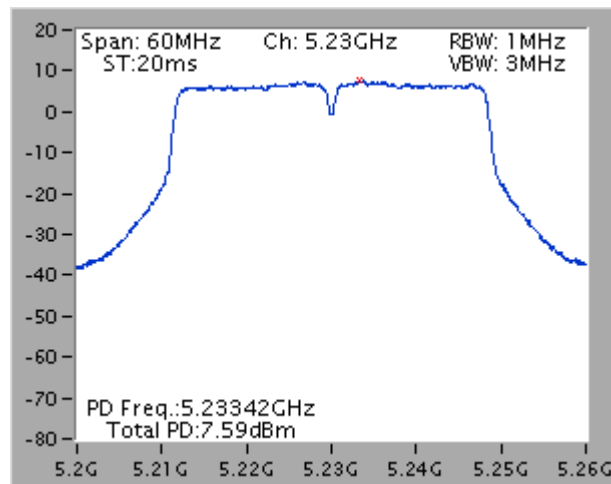
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5200 MHz**



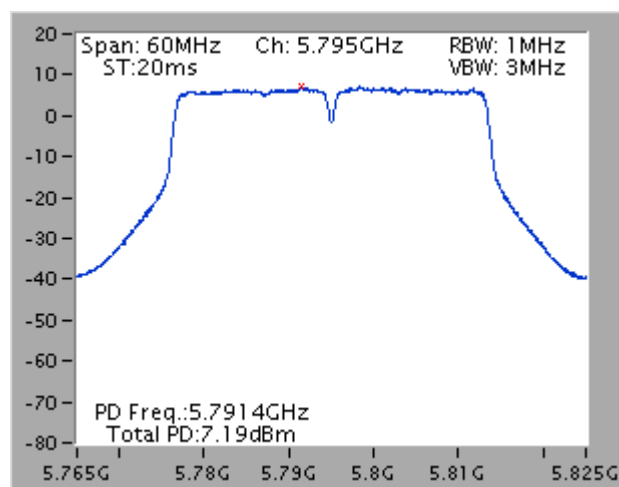
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5785 MHz**



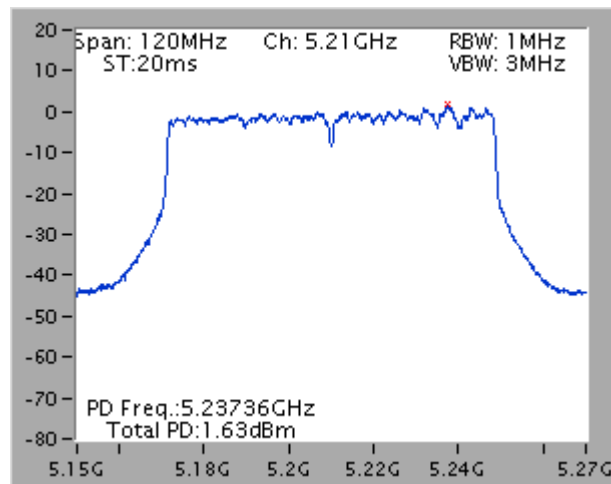
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5230 MHz**



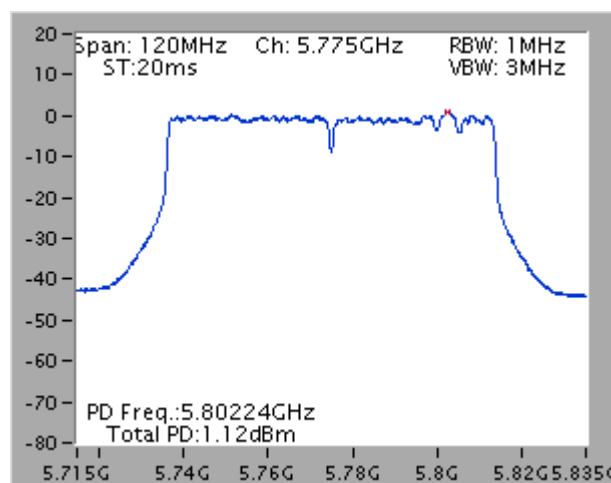
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5795 MHz**



**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5210 MHz**



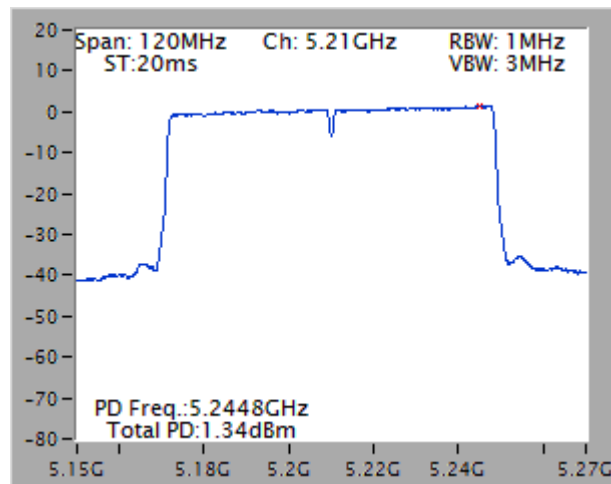
**Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT80 / Chain 5 + Chain 6 + Chain 7 + Chain 8 / 5775 MHz**



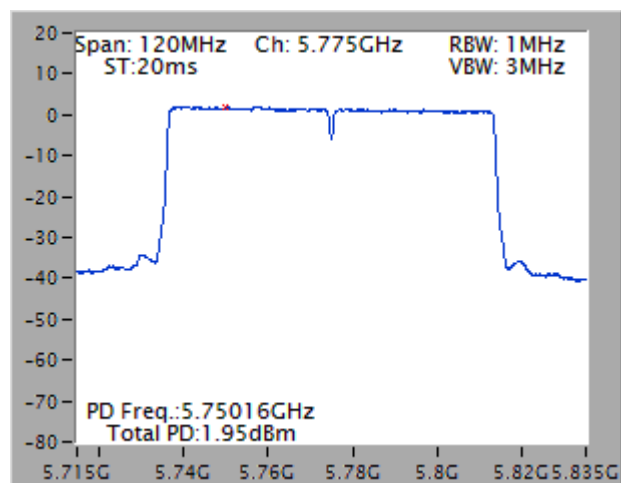
For 802.11ac MCS0/Nss2 VHT80+80 Mode

Type 1

Power Density Plot on Chain 5 + Chain 6 / 5210 MHz

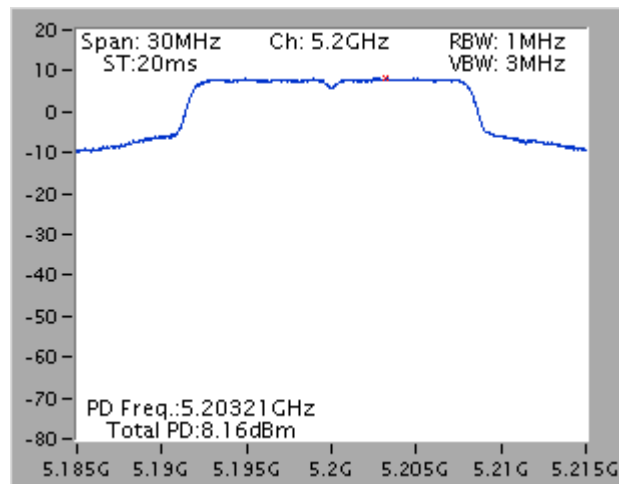


Power Density Plot on Chain 7 + Chain 8 / 5775 MHz

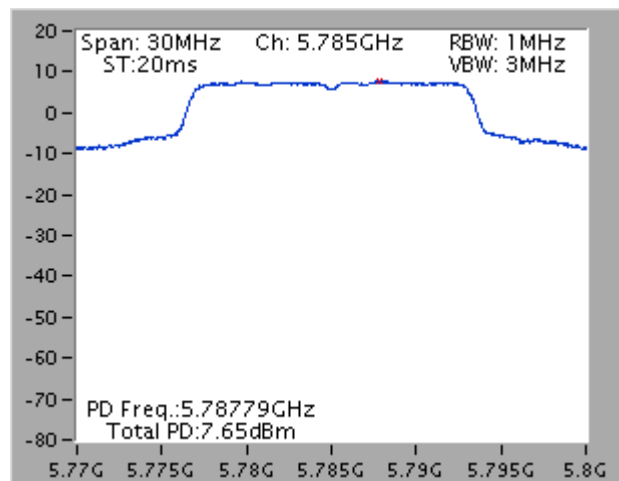


<For Radio 3 Mode>

Power Density Plot on Configuration IEEE 802.11a / Chain 9 / 5200 MHz

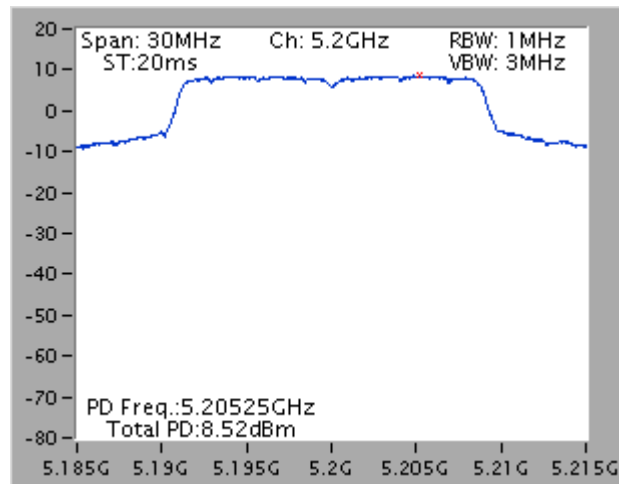


Power Density Plot on Configuration IEEE 802.11a / Chain 9 / 5785 MHz

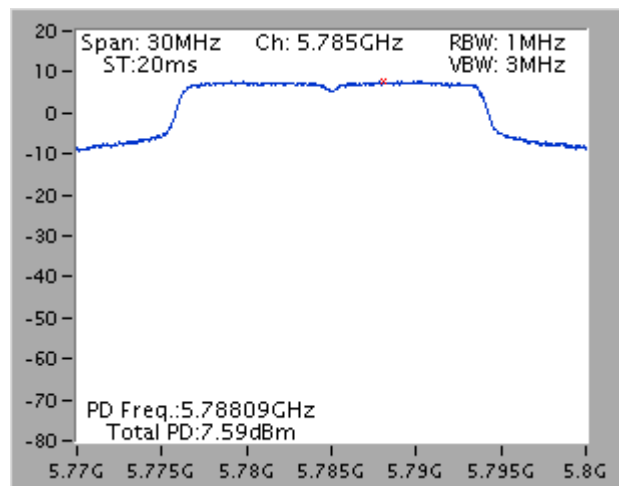




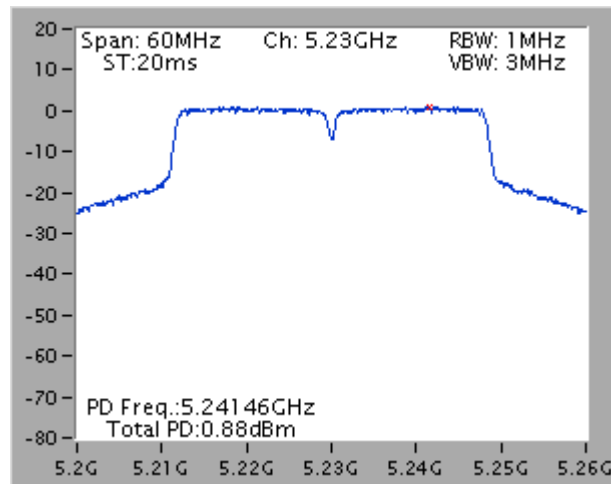
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5200 MHz



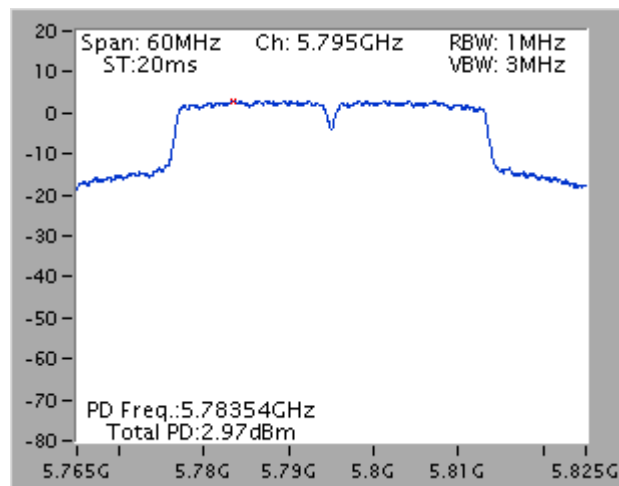
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Chain 9 / 5785 MHz



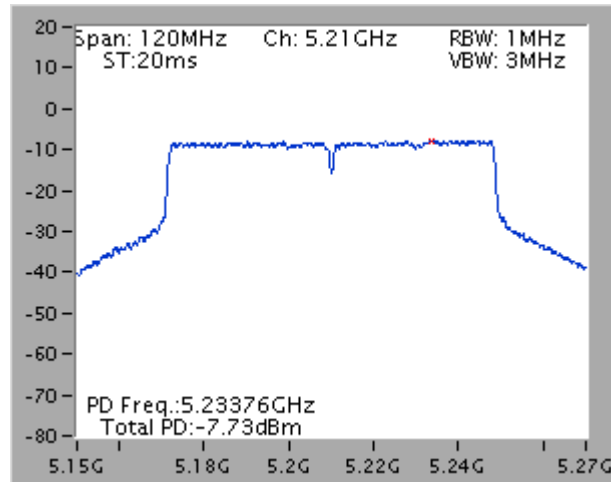
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5230 MHz



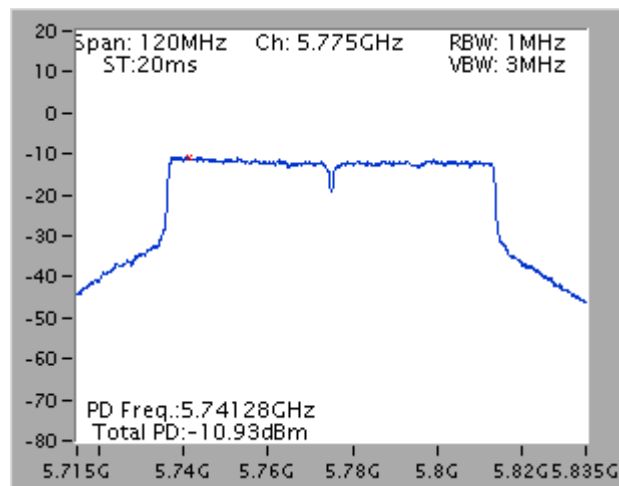
Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Chain 9 / 5795 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5210 MHz



Power Density Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT80 / Chain 9 / 5775 MHz



## 4.6. Radiated Emissions Measurement

### 4.6.1. Limit

For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.

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.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(kHz)                          | 300                              |
| 0.490~1.705          | 24000/F(kHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter                          | Setting                                           |
|---------------------------------------------|---------------------------------------------------|
| Attenuation                                 | Auto                                              |
| Start Frequency                             | 1000 MHz                                          |
| Stop Frequency                              | 40 GHz                                            |
| RBW / VBW (Emission in restricted band)     | 1 MHz / 3MHz for Peak,<br>1 MHz / 1/T for Average |
| RBW / VBW (Emission in non-restricted band) | 1 MHz / 3MHz for peak                             |

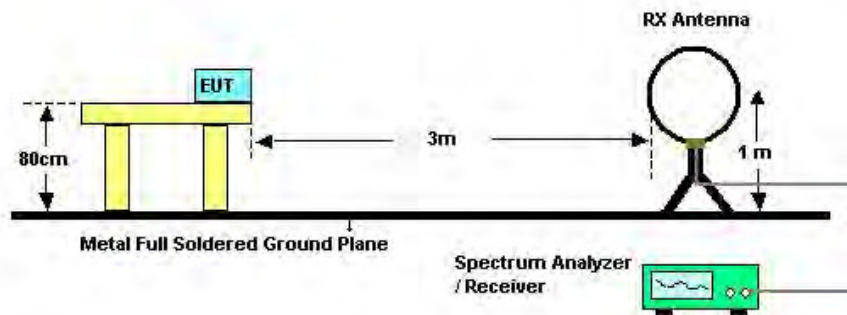
| Receiver Parameter     | Setting                           |
|------------------------|-----------------------------------|
| Attenuation            | Auto                              |
| Start ~ Stop Frequency | 9kHz~150kHz / RBW 200Hz for QP    |
| Start ~ Stop Frequency | 150kHz~30MHz / RBW 9kHz for QP    |
| Start ~ Stop Frequency | 30MHz~1000MHz / RBW 120kHz for QP |

#### 4.6.3. Test Procedures

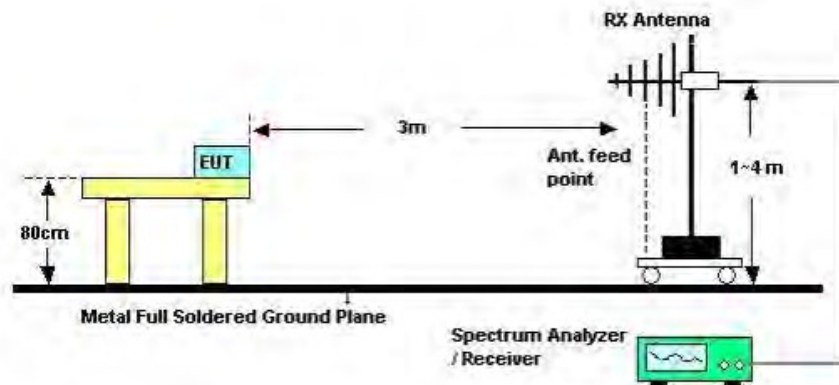
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 1m & 3m far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 1/T VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

#### 4.6.4. Test Setup Layout

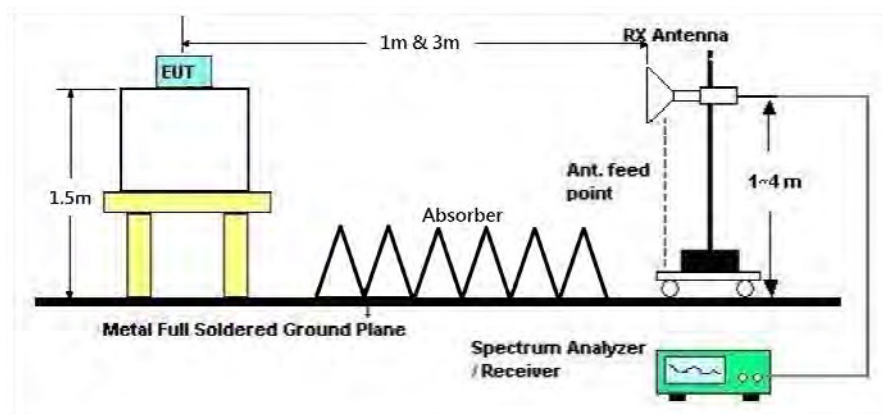
For Radiated Emissions: 9kHz ~30MHz



For Radiated Emissions: 30MHz~1GHz



For Radiated Emissions: Above 1GHz



#### 4.6.5. Test Deviation

There is no deviation with the original standard.

#### 4.6.6. EUT Operation during Test

<For Non-beamforming mode>

The EUT was programmed to be in continuously transmitting mode.

<For Beamforming mode>

The EUT was programmed to be in beamforming transmitting mode.



#### 4.6.7. Results of Radiated Emissions (9kHz~30MHz)

|               |               |                |                      |
|---------------|---------------|----------------|----------------------|
| Temperature   | 26°C          | Humidity       | 57%                  |
| Test Engineer | Roki Liu      | Configurations | Normal Link / Mode 3 |
| Test Date     | Nov. 19, 2015 |                |                      |

| Freq.<br>(MHz) | Level<br>(dBuV) | Over Limit<br>(dB) | Limit Line<br>(dBuV) | Remark   |
|----------------|-----------------|--------------------|----------------------|----------|
| -              | -               | -                  | -                    | See Note |

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

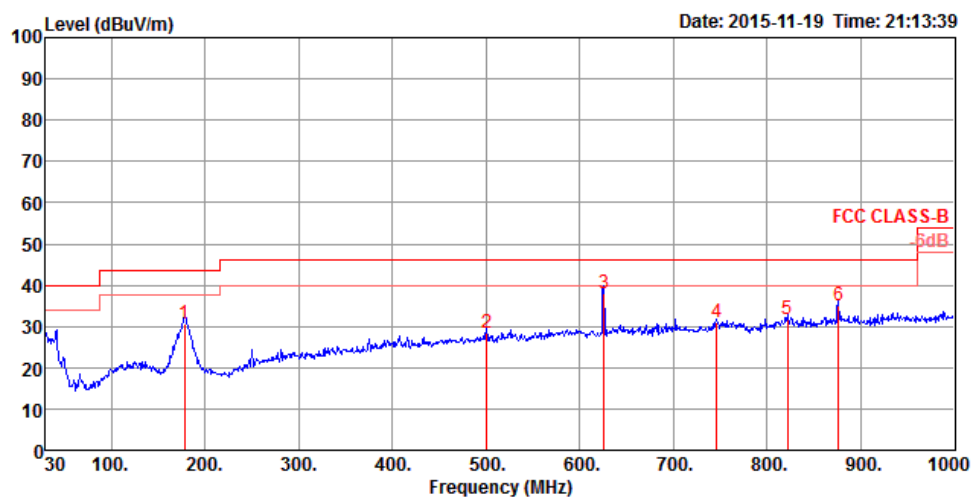
Distance extrapolation factor =  $40 \log (\text{specific distance} / \text{test distance})$  (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

#### 4.6.8. Results of Radiated Emissions (30MHz~1GHz)

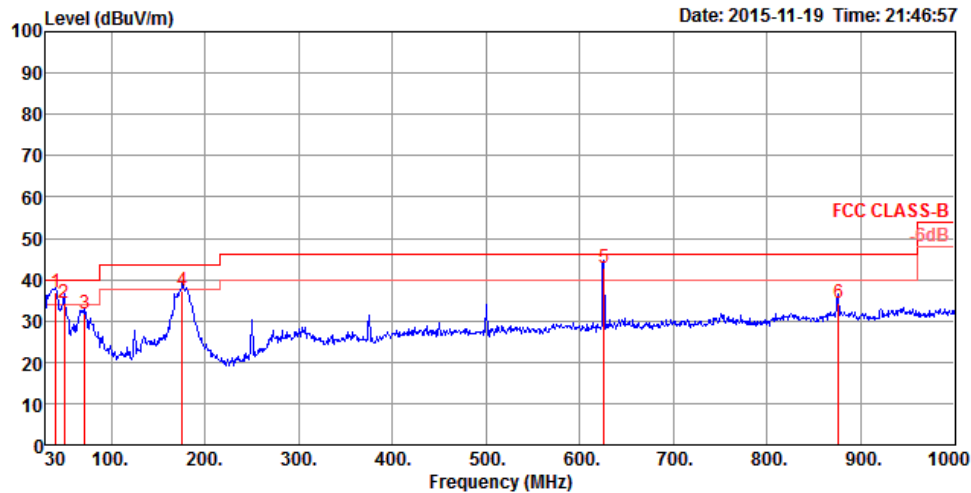
|               |          |                |                      |
|---------------|----------|----------------|----------------------|
| Temperature   | 26°C     | Humidity       | 57%                  |
| Test Engineer | Roki Liu | Configurations | Normal Link / Mode 3 |

##### Horizontal



|   | Freq   | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase  |
|---|--------|--------|--------|--------|-------|-------|---------|--------|-------|-------|--------|------------|
|   | MHz    | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | cm    | deg   |        |            |
| 1 | 178.41 | 30.68  | 43.50  | -12.82 | 51.98 | 1.15  | 9.89    | 32.34  | 150   | 278   | QP     | HORIZONTAL |
| 2 | 500.45 | 28.56  | 46.00  | -17.44 | 40.85 | 1.94  | 18.12   | 32.35  | 150   | 261   | QP     | HORIZONTAL |
| 3 | 625.58 | 37.99  | 46.00  | -8.01  | 48.82 | 2.16  | 19.41   | 32.40  | 100   | 304   | QP     | HORIZONTAL |
| 4 | 745.86 | 30.82  | 46.00  | -15.18 | 40.43 | 2.36  | 20.34   | 32.31  | 150   | 44    | QP     | HORIZONTAL |
| 5 | 821.52 | 31.82  | 46.00  | -14.18 | 40.45 | 2.49  | 21.02   | 32.14  | 100   | 161   | QP     | HORIZONTAL |
| 6 | 875.84 | 35.12  | 46.00  | -10.88 | 42.98 | 2.55  | 21.45   | 31.86  | 100   | 198   | QP     | HORIZONTAL |

### Vertical



|   | Freq   | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|--------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz    | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg    |           |
| 1 | 40.67  | 36.83  | 40.00  | -3.17  | 55.00 | 0.55         | 13.69  | 32.41 | 100   | 225 QP | VERTICAL  |
| 2 | 49.40  | 34.37  | 40.00  | -5.63  | 56.78 | 0.61         | 9.39   | 32.41 | 100   | 192 QP | VERTICAL  |
| 3 | 71.71  | 31.75  | 40.00  | -8.25  | 56.55 | 0.73         | 6.87   | 32.40 | 150   | 208 QP | VERTICAL  |
| 4 | 175.50 | 37.39  | 43.50  | -6.11  | 58.57 | 1.14         | 10.02  | 32.34 | 100   | 6 QP   | VERTICAL  |
| 5 | 625.58 | 42.66  | 46.00  | -3.34  | 53.49 | 2.16         | 19.41  | 32.40 | 125   | 171 QP | VERTICAL  |
| 6 | 875.84 | 34.43  | 46.00  | -11.57 | 42.29 | 2.55         | 21.45  | 31.86 | 100   | 66 QP  | VERTICAL  |

### Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = 20 log Emission level (uV/m).

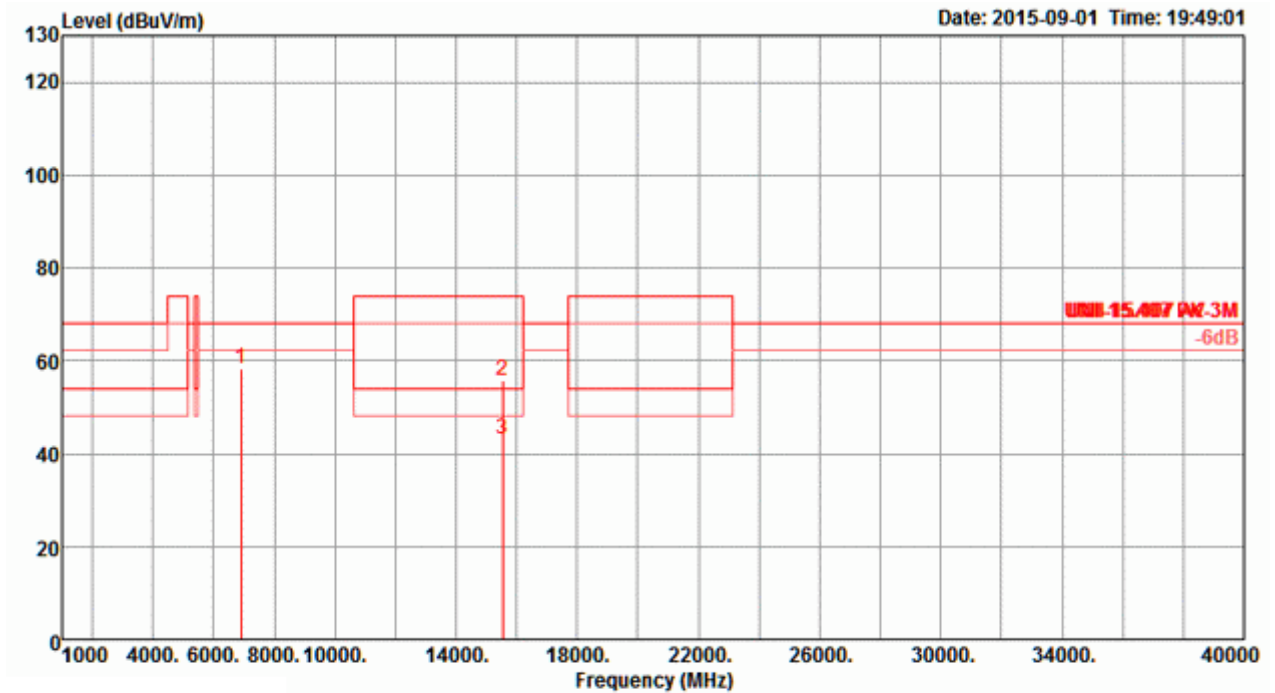
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

#### 4.6.9. Results for Radiated Emissions (1GHz~40GHz)

<For Radio 2 Non-beamforming Mode>

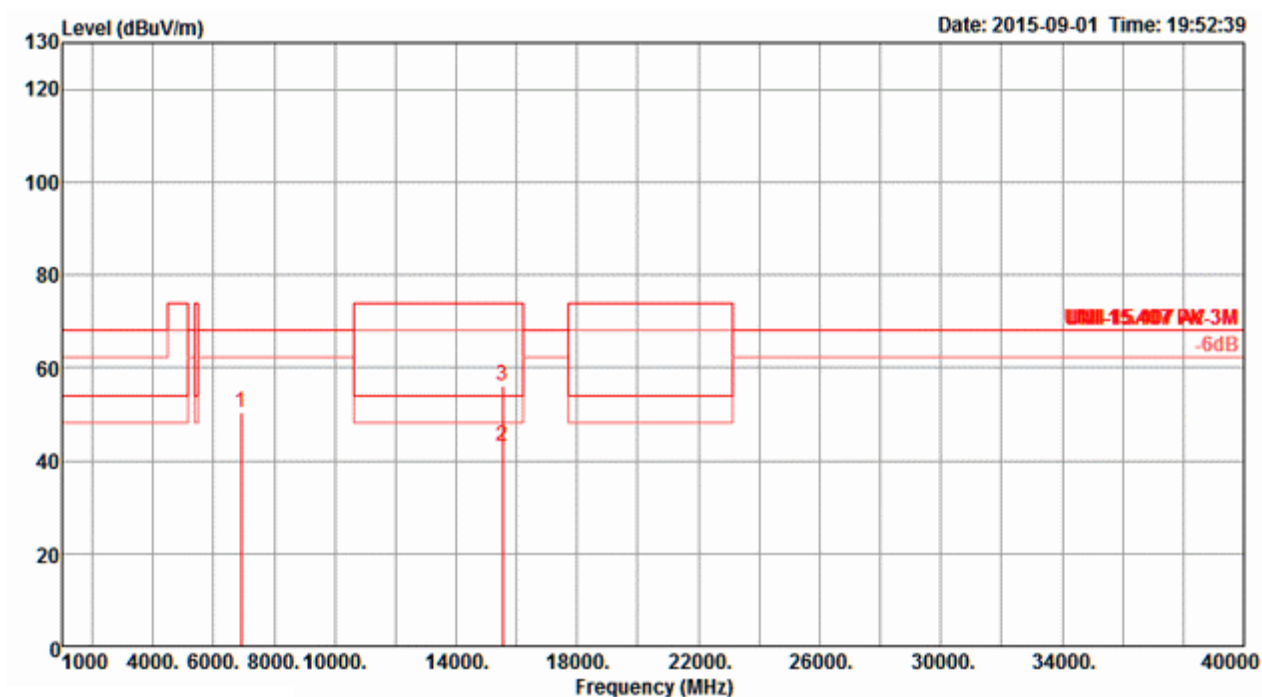
|               |          |                |                                                               |
|---------------|----------|----------------|---------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                           |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 36 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 6906.70  | 58.26  | 68.20  | -9.94  | 51.41 | 4.97  | 36.57   | 34.69  | 302   | 166   | Peak    | HORIZONTAL |
| 2 | 15537.79 | 55.87  | 74.00  | -18.13 | 44.77 | 7.56  | 38.16   | 34.62  | 270   | 154   | Peak    | HORIZONTAL |
| 3 | 15539.33 | 43.09  | 54.00  | -10.91 | 31.99 | 7.56  | 38.16   | 34.62  | 270   | 154   | Average | HORIZONTAL |

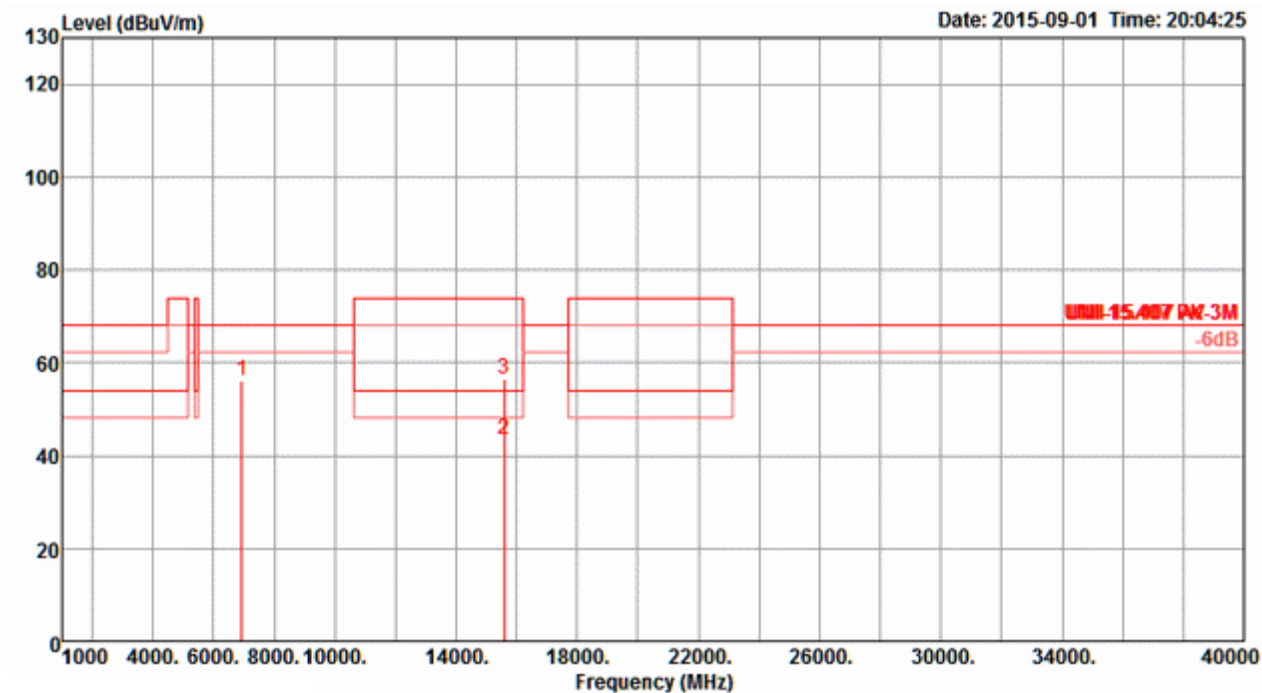
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | cm          |           |
| 1 | 6906.71  | 50.19  | 68.20  | -18.01 | 43.34 | 4.97         | 36.57  | 34.69  | 21    | 156 Peak    | VERTICAL  |
| 2 | 15538.78 | 42.96  | 54.00  | -11.04 | 31.86 | 7.56         | 38.16  | 34.62  | 40    | 162 Average | VERTICAL  |
| 3 | 15540.03 | 56.16  | 74.00  | -17.84 | 45.06 | 7.56         | 38.16  | 34.62  | 40    | 162 Peak    | VERTICAL  |

|               |          |                |                                                               |
|---------------|----------|----------------|---------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                           |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 40 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

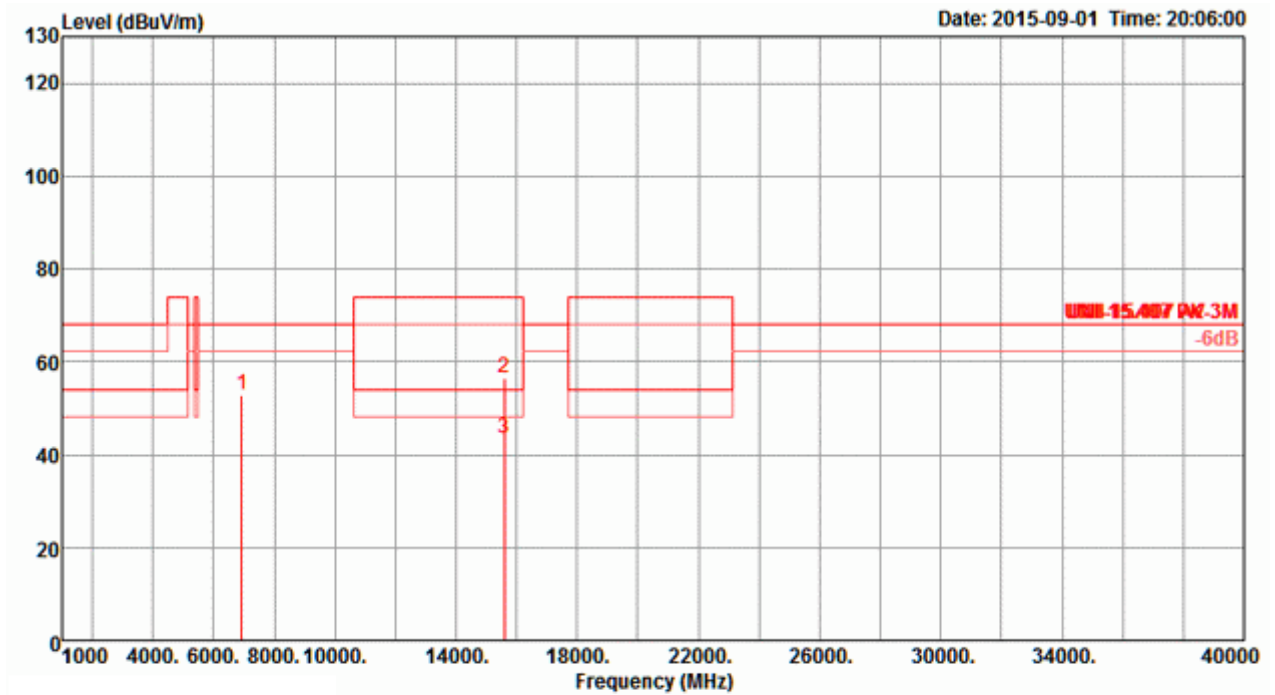
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 6933.32  | 56.01  | 68.20  | -12.19 | 49.07 | 4.98  | 36.65   | 34.69  | 301   | 169   | Peak    | HORIZONTAL |
| 2 | 15597.90 | 43.52  | 54.00  | -10.48 | 32.32 | 7.58  | 38.29   | 34.67  | 248   | 192   | Average | HORIZONTAL |
| 3 | 15602.37 | 56.47  | 74.00  | -17.53 | 45.29 | 7.58  | 38.29   | 34.69  | 248   | 192   | Peak    | HORIZONTAL |



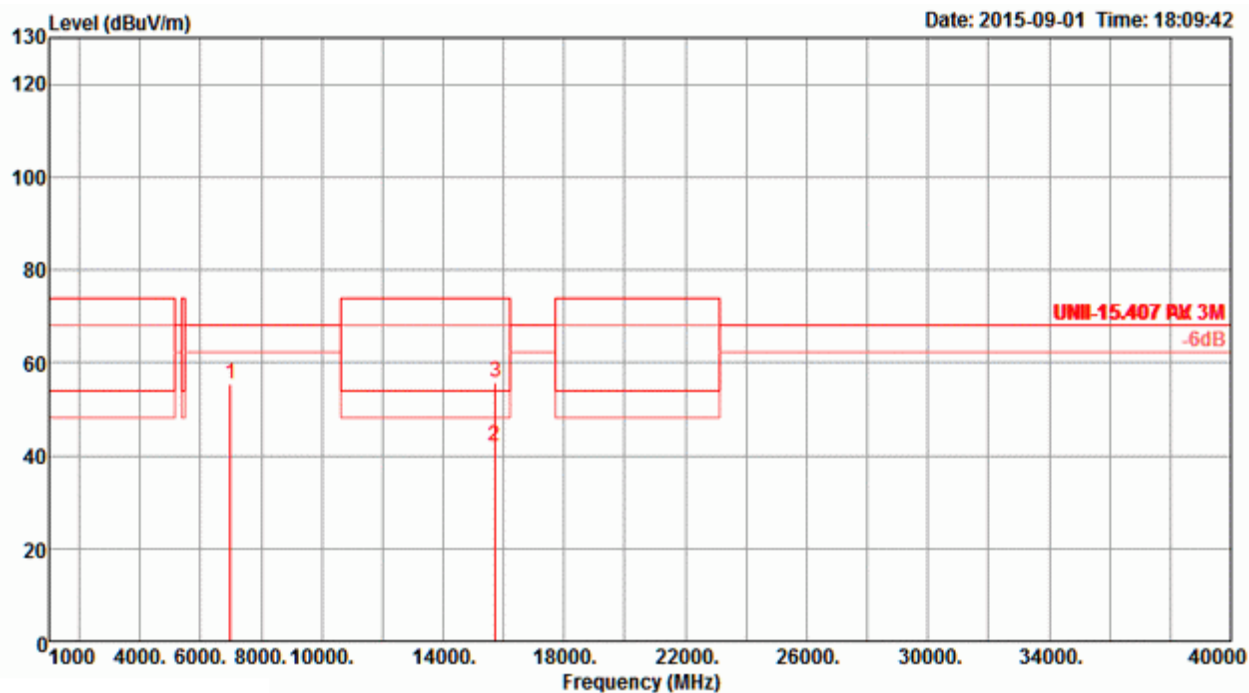
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6933.18  | 52.69  | 68.20  | -15.51 | 45.75 | 4.98         | 36.65  | 34.69 | 318   | 165 Peak    | VERTICAL  |
| 2 | 15599.11 | 56.47  | 74.00  | -17.53 | 45.29 | 7.58         | 38.29  | 34.69 | 216   | 187 Peak    | VERTICAL  |
| 3 | 15600.13 | 43.59  | 54.00  | -10.41 | 32.41 | 7.58         | 38.29  | 34.69 | 216   | 187 Average | VERTICAL  |

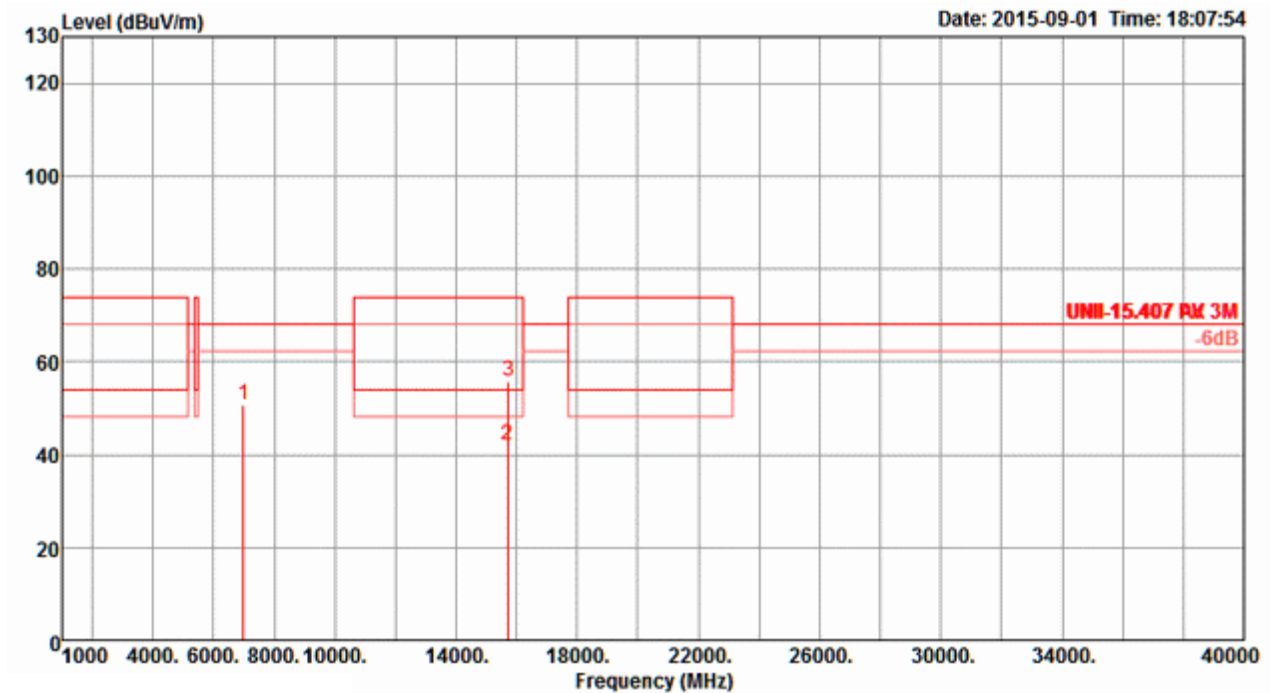
|               |          |                |                                                               |
|---------------|----------|----------------|---------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                           |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 48 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 6986.78  | 55.24  | 68.20  | -12.96 | 48.18 | 5.01  | 36.76   | 34.71  | 304   | 176   | Peak    | HORIZONTAL |
| 2 | 15712.56 | 41.89  | 54.00  | -12.11 | 30.58 | 7.62  | 38.47   | 34.78  | 53    | 176   | Average | HORIZONTAL |
| 3 | 15716.36 | 55.86  | 74.00  | -18.14 | 44.52 | 7.62  | 38.50   | 34.78  | 53    | 176   | Peak    | HORIZONTAL |

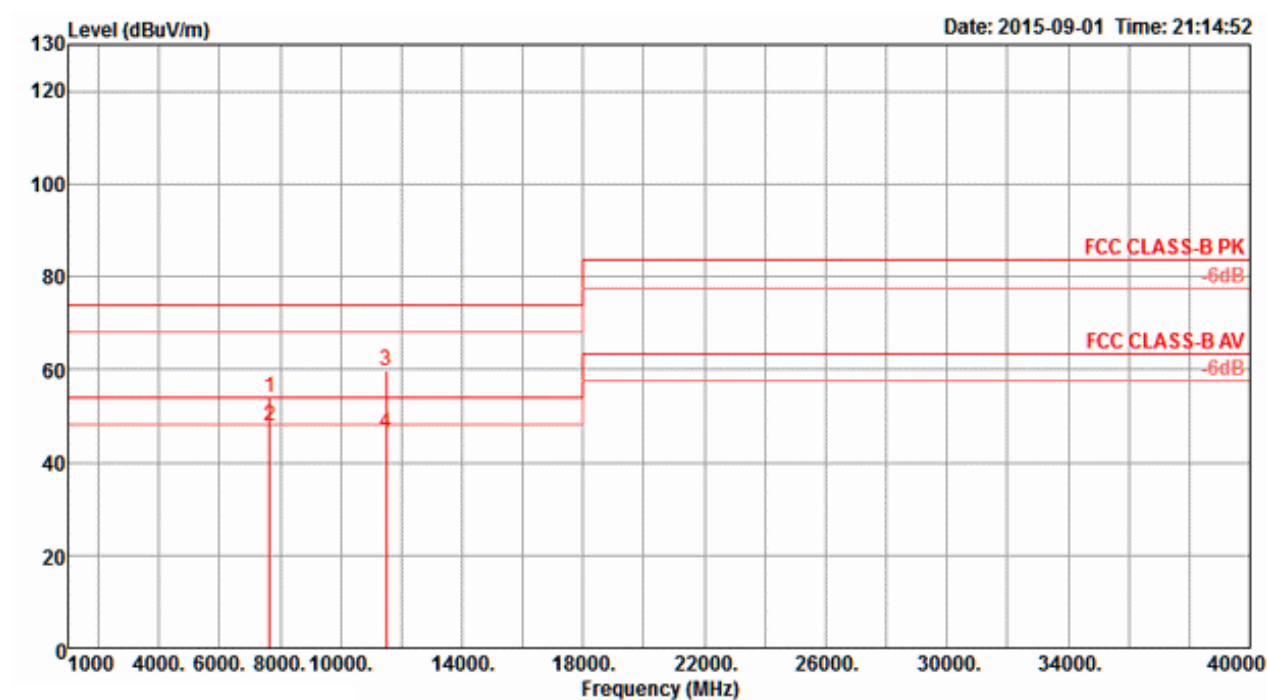
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6986.73  | 50.72  | 68.20  | -17.48 | 43.66 | 5.01         | 36.76  | 34.71 | 23    | 166 Peak    | VERTICAL  |
| 2 | 15712.60 | 41.99  | 54.00  | -12.01 | 30.68 | 7.62         | 38.47  | 34.78 | 104   | 174 Average | VERTICAL  |
| 3 | 15715.00 | 55.85  | 74.00  | -18.15 | 44.51 | 7.62         | 38.50  | 34.78 | 104   | 174 Peak    | VERTICAL  |

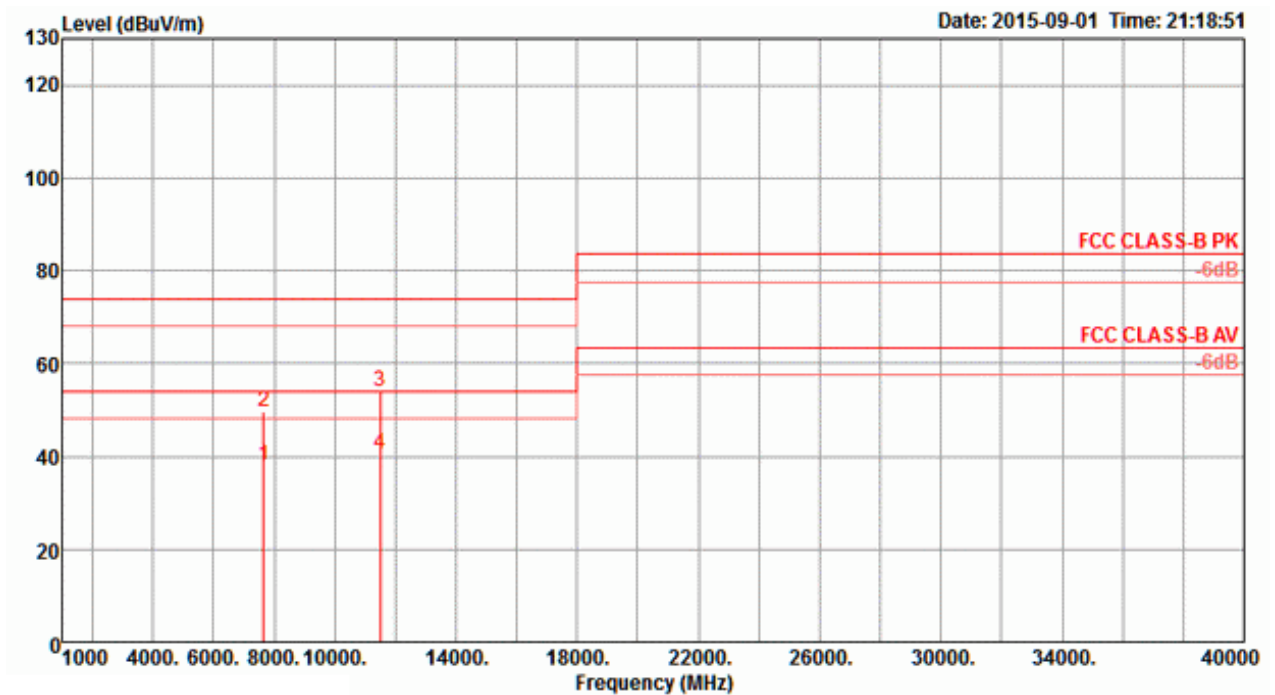
|               |          |                |                                                                |
|---------------|----------|----------------|----------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                            |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 149 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7659.90  | 53.86  | 74.00  | -20.14 | 46.06 | 5.22  | 37.43   | 34.85  | 286   | 157   | Peak    | HORIZONTAL |
| 2 | 7659.98  | 47.65  | 54.00  | -6.35  | 39.85 | 5.22  | 37.43   | 34.85  | 286   | 157   | Average | HORIZONTAL |
| 3 | 11491.90 | 59.79  | 74.00  | -14.21 | 49.18 | 6.53  | 38.70   | 34.62  | 331   | 147   | Peak    | HORIZONTAL |
| 4 | 11492.30 | 46.38  | 54.00  | -7.62  | 35.77 | 6.53  | 38.70   | 34.62  | 331   | 147   | Average | HORIZONTAL |

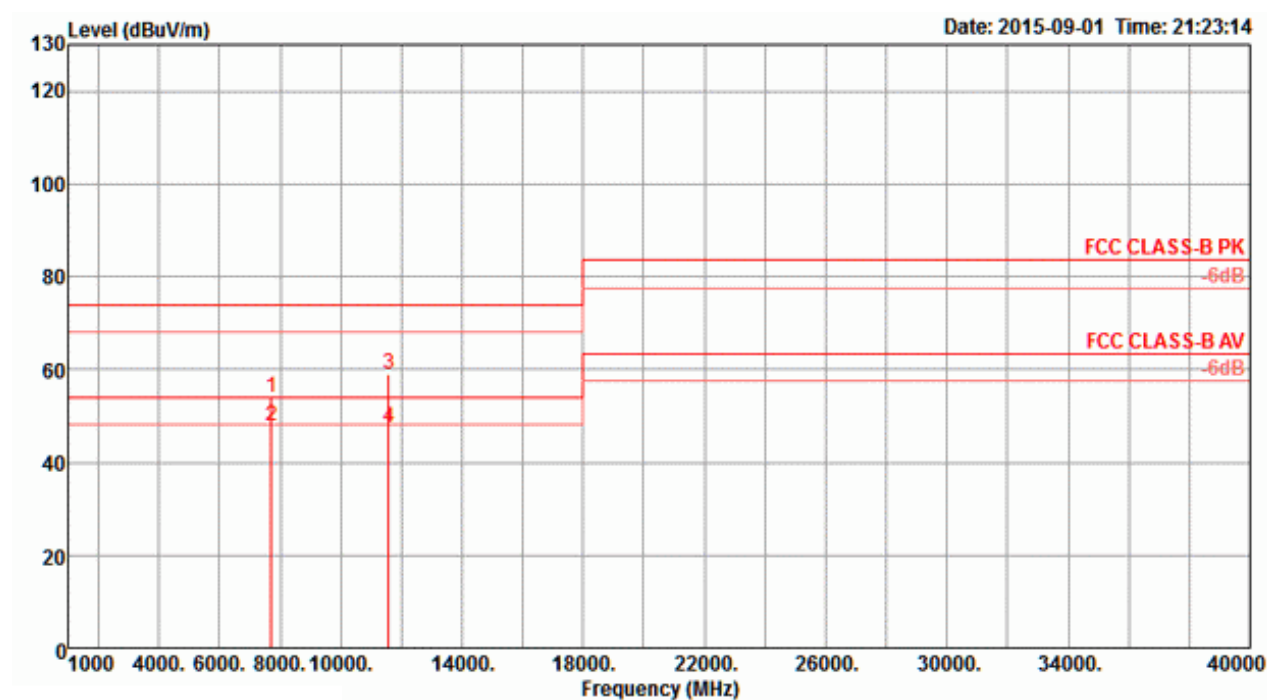
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 7660.00  | 38.02  | 54.00  | -15.98 | 30.22 | 5.22  | 37.43   | 34.85  | 113   | 160   | Average | VERTICAL  |
| 2 | 7662.22  | 49.66  | 74.00  | -24.34 | 41.86 | 5.22  | 37.43   | 34.85  | 113   | 160   | Peak    | VERTICAL  |
| 3 | 11486.20 | 53.79  | 74.00  | -20.21 | 43.18 | 6.53  | 38.70   | 34.62  | 85    | 110   | Peak    | VERTICAL  |
| 4 | 11494.00 | 40.57  | 54.00  | -13.43 | 29.96 | 6.53  | 38.70   | 34.62  | 85    | 110   | Average | VERTICAL  |

|               |          |                |                                                                |
|---------------|----------|----------------|----------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                            |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 157 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

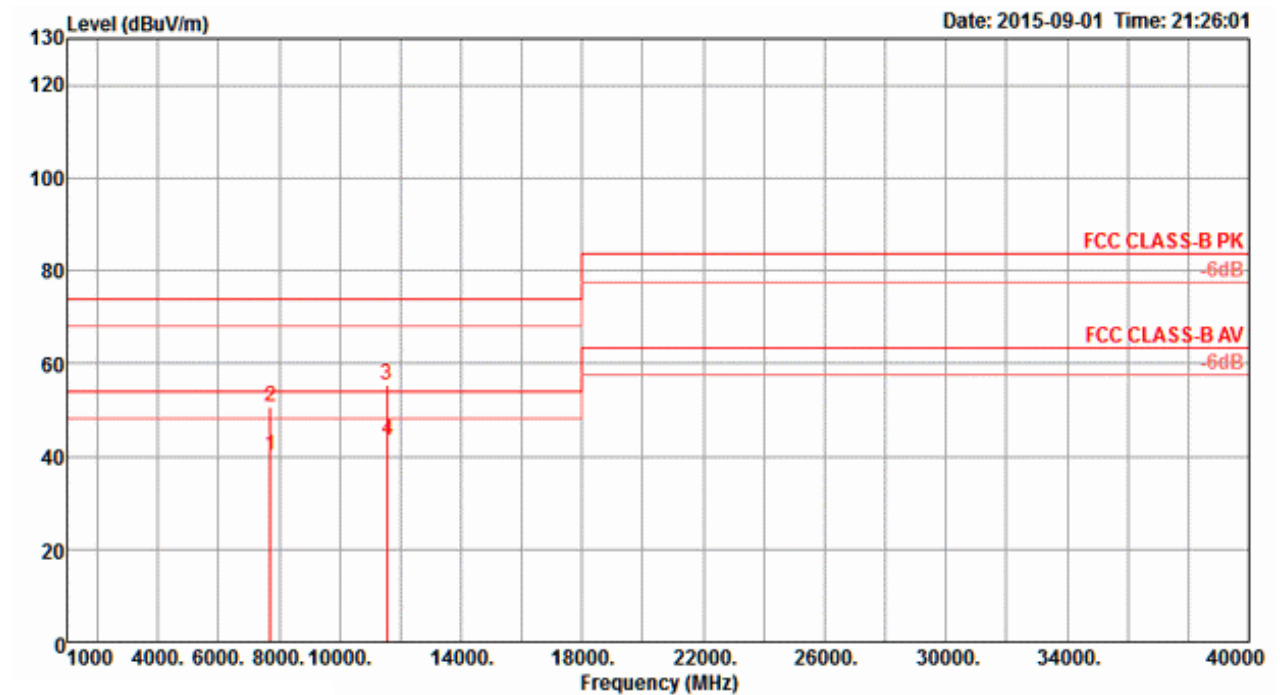
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7713.28  | 54.00  | 74.00  | -20.00 | 46.21 | 5.25  | 37.41   | 34.87  | 278   | 154   | Peak    | HORIZONTAL |
| 2 | 7713.37  | 47.94  | 54.00  | -6.06  | 40.15 | 5.25  | 37.41   | 34.87  | 278   | 154   | Average | HORIZONTAL |
| 3 | 11572.20 | 58.94  | 74.00  | -15.06 | 48.33 | 6.55  | 38.71   | 34.65  | 98    | 150   | Peak    | HORIZONTAL |
| 4 | 11572.80 | 47.30  | 54.00  | -6.70  | 36.69 | 6.55  | 38.71   | 34.65  | 98    | 150   | Average | HORIZONTAL |



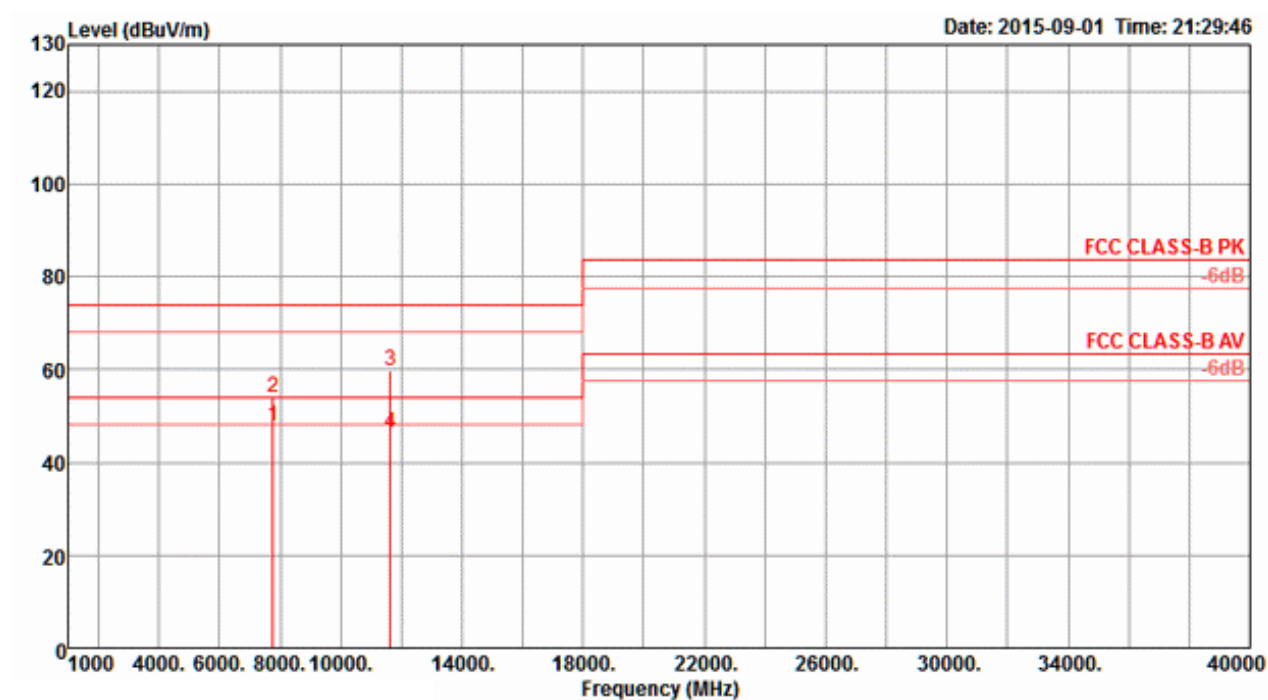
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 7713.34  | 40.32  | 54.00  | -13.68 | 32.53 | 5.25  | 37.41   | 34.87  | 54    | 162   | Average | VERTICAL  |
| 2 | 7713.41  | 50.69  | 74.00  | -23.31 | 42.90 | 5.25  | 37.41   | 34.87  | 54    | 162   | Peak    | VERTICAL  |
| 3 | 11560.00 | 55.43  | 74.00  | -18.57 | 44.81 | 6.55  | 38.71   | 34.64  | 100   | 152   | Peak    | VERTICAL  |
| 4 | 11568.60 | 43.62  | 54.00  | -10.38 | 33.00 | 6.55  | 38.71   | 34.64  | 100   | 152   | Average | VERTICAL  |

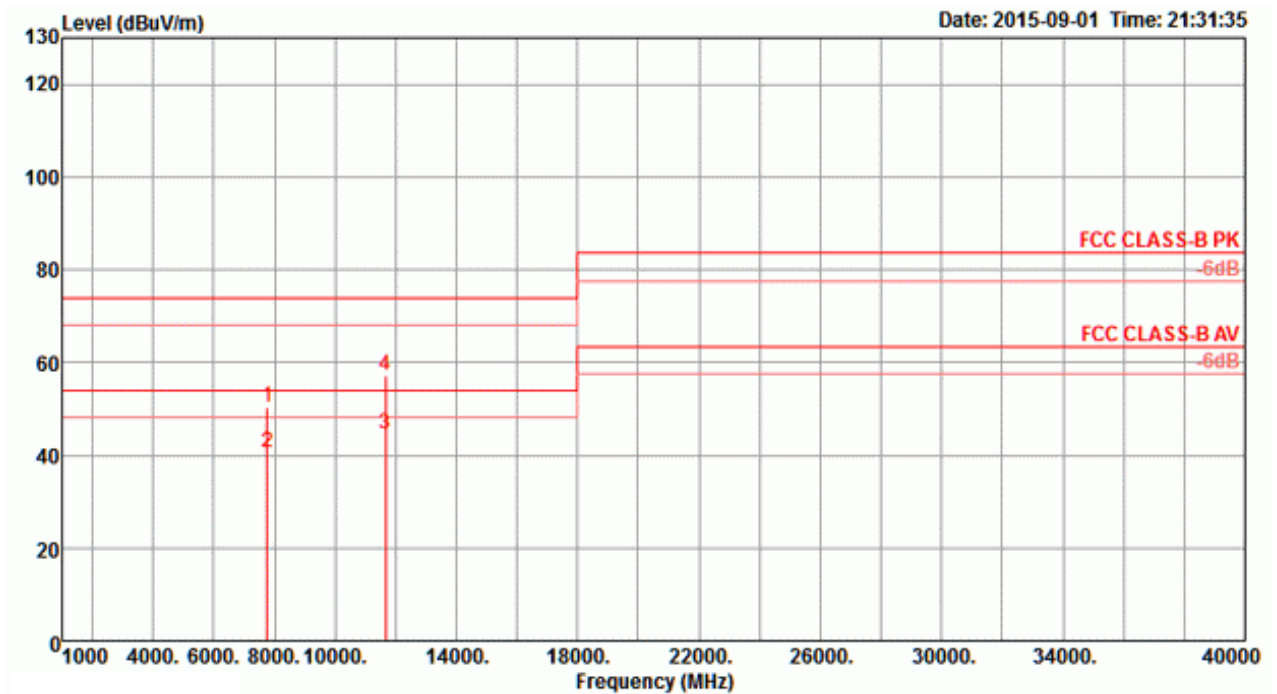
|               |          |                |                                                                |
|---------------|----------|----------------|----------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                            |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11a CH 165 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7766.67  | 47.80  | 54.00  | -6.20  | 40.02 | 5.28  | 37.39   | 34.89  | 281   | 162   | Average | HORIZONTAL |
| 2 | 7766.69  | 53.82  | 74.00  | -20.18 | 46.04 | 5.28  | 37.39   | 34.89  | 281   | 162   | Peak    | HORIZONTAL |
| 3 | 11644.30 | 59.67  | 74.00  | -14.33 | 49.05 | 6.56  | 38.73   | 34.67  | 355   | 160   | Peak    | HORIZONTAL |
| 4 | 11646.00 | 46.38  | 54.00  | -7.62  | 35.76 | 6.56  | 38.73   | 34.67  | 355   | 160   | Average | HORIZONTAL |

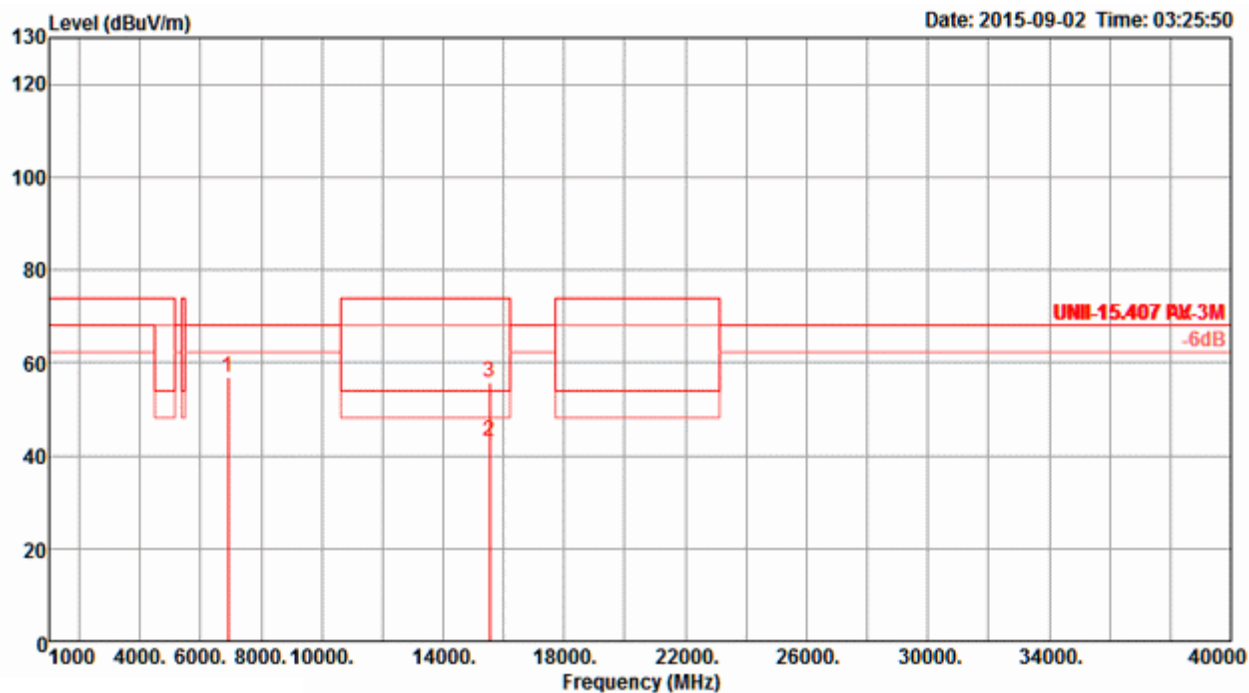
### Vertical



|   | Freq     | Level                      | Limit                      | Over   | Read                     | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|----------------------------|----------------------------|--------|--------------------------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | $\overline{\text{dBuV/m}}$ | $\overline{\text{dBuV/m}}$ | dB     | $\overline{\text{dBuV}}$ | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 7766.43  | 50.43                      | 74.00                      | -23.57 | 42.65                    | 5.28  | 37.39   | 34.89  | 331   | 149   | Peak    | VERTICAL  |
| 2 | 7766.60  | 40.57                      | 54.00                      | -13.43 | 32.79                    | 5.28  | 37.39   | 34.89  | 331   | 149   | Average | VERTICAL  |
| 3 | 11657.40 | 44.50                      | 54.00                      | -9.50  | 33.89                    | 6.56  | 38.73   | 34.68  | 356   | 173   | Average | VERTICAL  |
| 4 | 11657.90 | 57.36                      | 74.00                      | -16.64 | 46.75                    | 6.56  | 38.73   | 34.68  | 356   | 173   | Peak    | VERTICAL  |

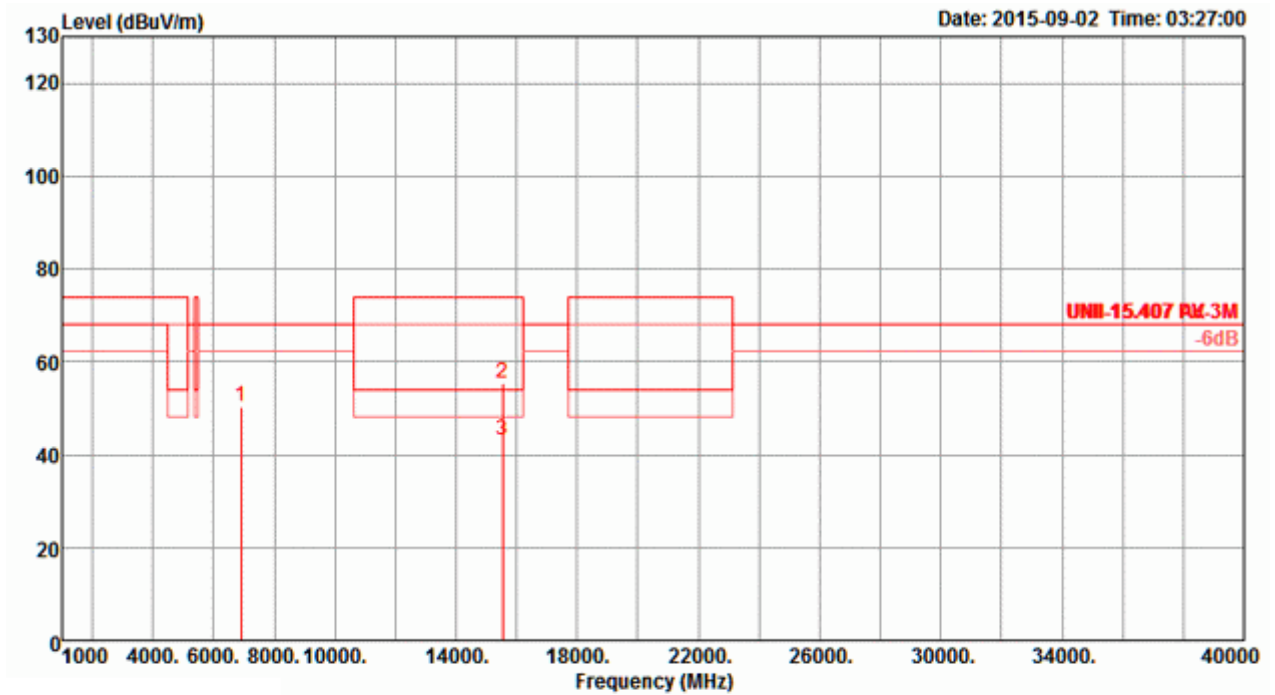
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 6906.61  | 56.78  | 68.20  | -11.42 | 49.93 | 4.97  | 36.57   | 34.69  | 299   | 177   | Peak    | HORIZONTAL |
| 2 | 15541.84 | 43.07  | 54.00  | -10.93 | 31.97 | 7.56  | 38.16   | 34.62  | 291   | 182   | Average | HORIZONTAL |
| 3 | 15544.56 | 55.81  | 74.00  | -18.19 | 44.68 | 7.56  | 38.19   | 34.62  | 291   | 182   | Peak    | HORIZONTAL |

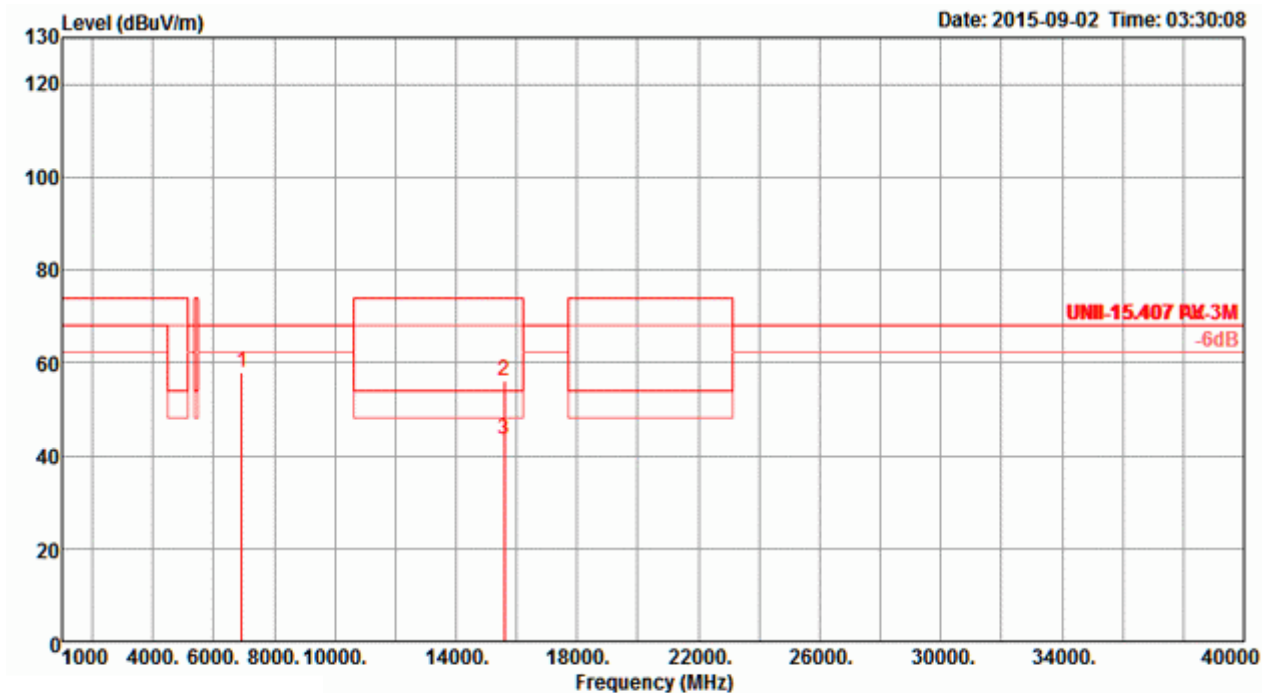
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 6907.04  | 50.26  | 68.20  | -17.94 | 43.41 | 4.97  | 36.57   | 34.69  | 298   | 154   | Peak    | VERTICAL  |
| 2 | 15532.84 | 55.47  | 74.00  | -18.53 | 44.37 | 7.56  | 38.16   | 34.62  | 283   | 166   | Peak    | VERTICAL  |
| 3 | 15534.56 | 42.97  | 54.00  | -11.03 | 31.87 | 7.56  | 38.16   | 34.62  | 283   | 166   | Average | VERTICAL  |

|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

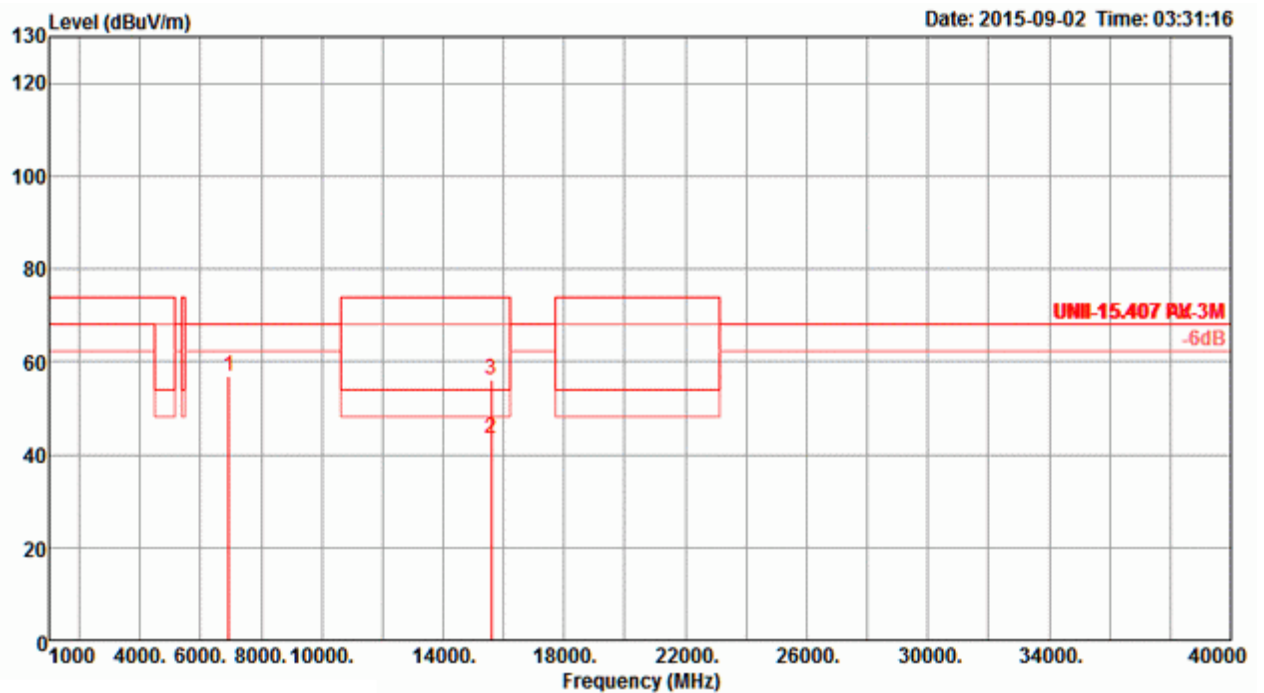
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6935.27  | 58.03  | 68.20  | -10.17 | 51.09 | 4.98         | 36.65  | 34.69 | 255   | 152 Peak    | HORIZONTAL |
| 2 | 15600.04 | 56.24  | 74.00  | -17.76 | 45.06 | 7.58         | 38.29  | 34.69 | 224   | 168 Peak    | HORIZONTAL |
| 3 | 15602.18 | 43.34  | 54.00  | -10.66 | 32.16 | 7.58         | 38.29  | 34.69 | 224   | 168 Average | HORIZONTAL |



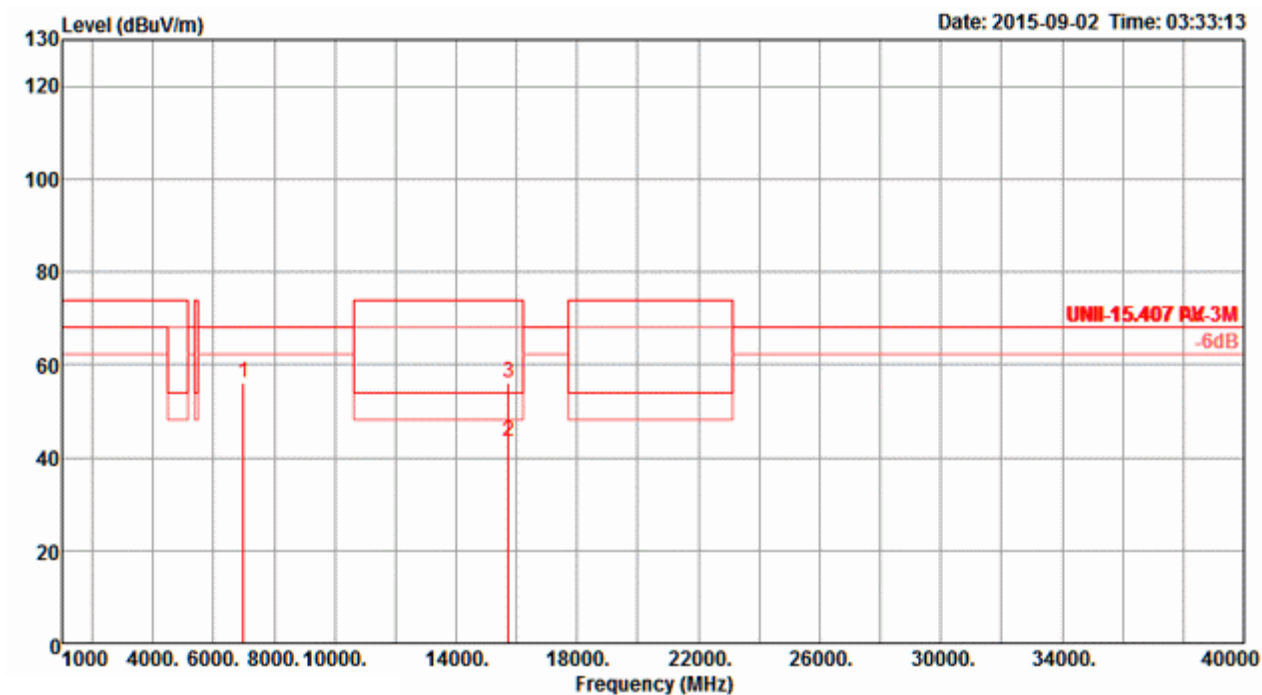
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6933.55  | 56.99  | 68.20  | -11.21 | 50.05 | 4.98         | 36.65  | 34.69 | 168   | 154 Peak    | VERTICAL  |
| 2 | 15599.72 | 43.38  | 54.00  | -10.62 | 32.20 | 7.58         | 38.29  | 34.69 | 208   | 160 Average | VERTICAL  |
| 3 | 15601.26 | 56.03  | 74.00  | -17.97 | 44.85 | 7.58         | 38.29  | 34.69 | 208   | 160 Peak    | VERTICAL  |

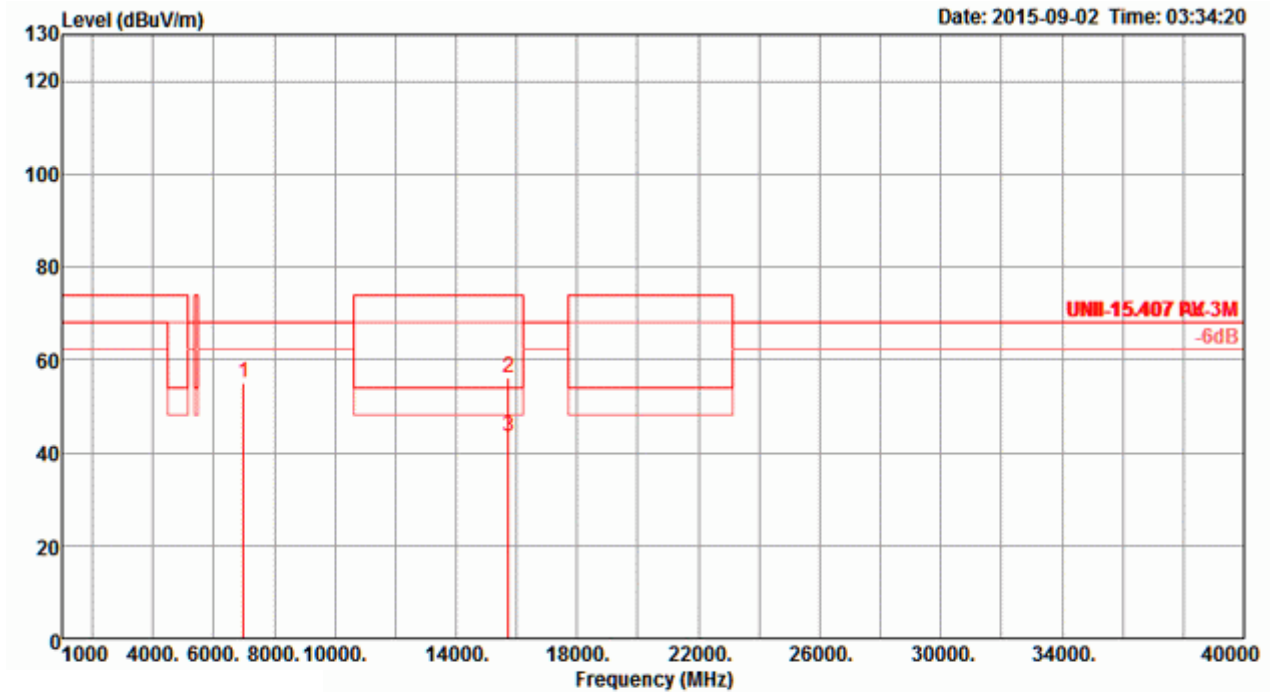
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 6986.94  | 56.03  | 68.20  | -12.17 | 48.97 | 5.01  | 36.76   | 34.71  | 153   | 141   | Peak    | HORIZONTAL |
| 2 | 15717.60 | 43.48  | 54.00  | -10.52 | 32.14 | 7.62  | 38.50   | 34.78  | 192   | 148   | Average | HORIZONTAL |
| 3 | 15717.68 | 56.27  | 74.00  | -17.73 | 44.93 | 7.62  | 38.50   | 34.78  | 192   | 148   | Peak    | HORIZONTAL |

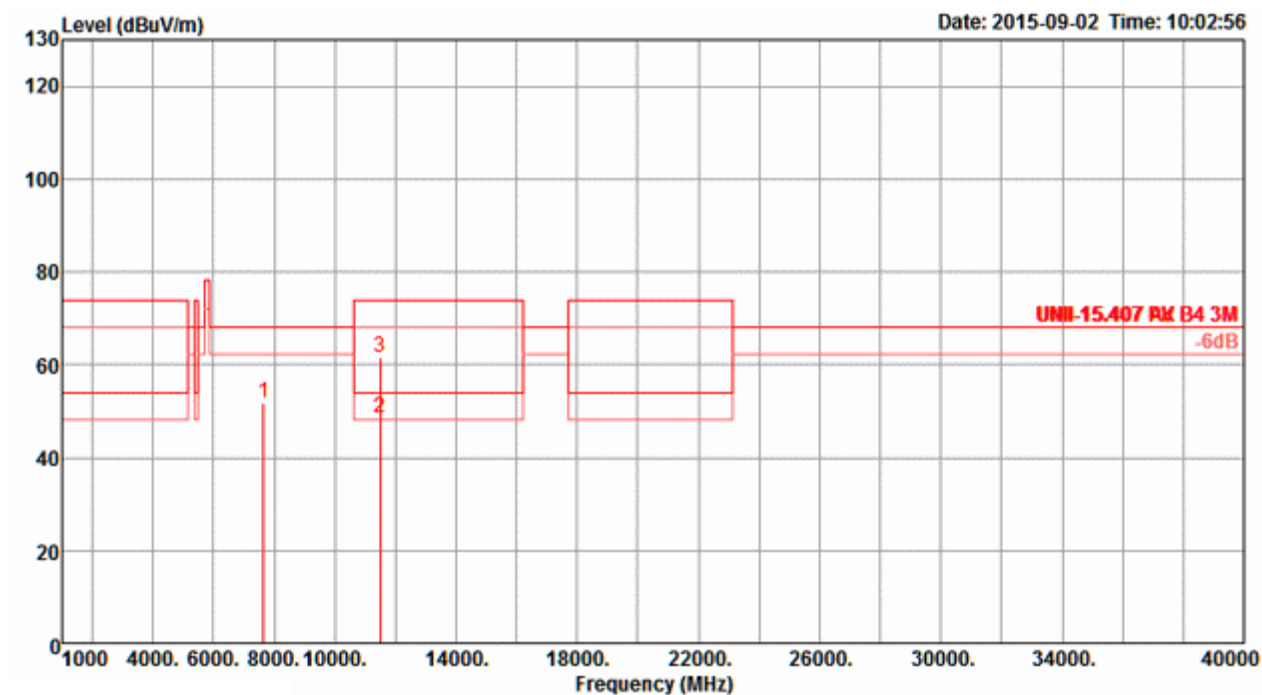
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 6984.74  | 55.16  | 68.20  | -13.04 | 48.10 | 5.01  | 36.76   | 34.71  | 163   | 159   | Peak    | VERTICAL  |
| 2 | 15717.66 | 56.20  | 74.00  | -17.80 | 44.86 | 7.62  | 38.50   | 34.78  | 192   | 138   | Peak    | VERTICAL  |
| 3 | 15721.91 | 43.44  | 54.00  | -10.56 | 32.10 | 7.62  | 38.50   | 34.78  | 192   | 138   | Average | VERTICAL  |

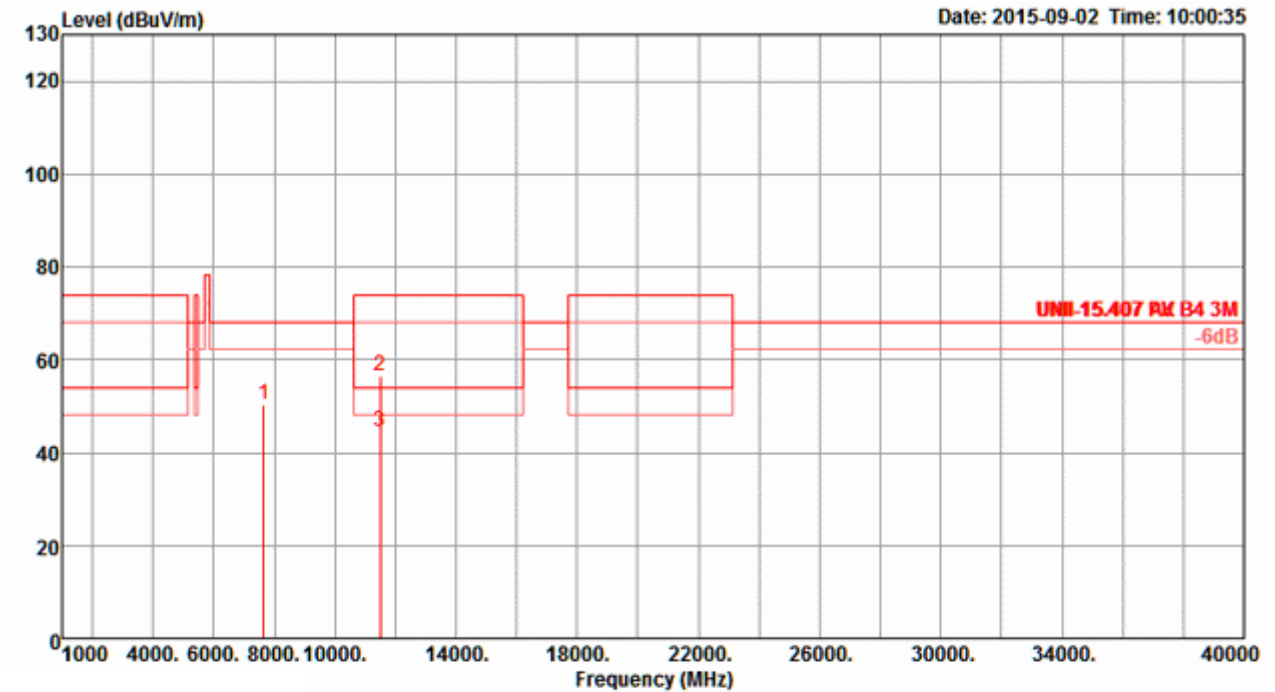
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7660.04  | 51.77  | 68.20  | -16.43 | 43.97 | 5.22  | 37.43   | 34.85  | 286   | 170   | Peak    | HORIZONTAL |
| 2 | 11492.34 | 48.55  | 54.00  | -5.45  | 37.94 | 6.53  | 38.70   | 34.62  | 335   | 157   | Average | HORIZONTAL |
| 3 | 11492.88 | 61.68  | 74.00  | -12.32 | 51.07 | 6.53  | 38.70   | 34.62  | 335   | 157   | Peak    | HORIZONTAL |

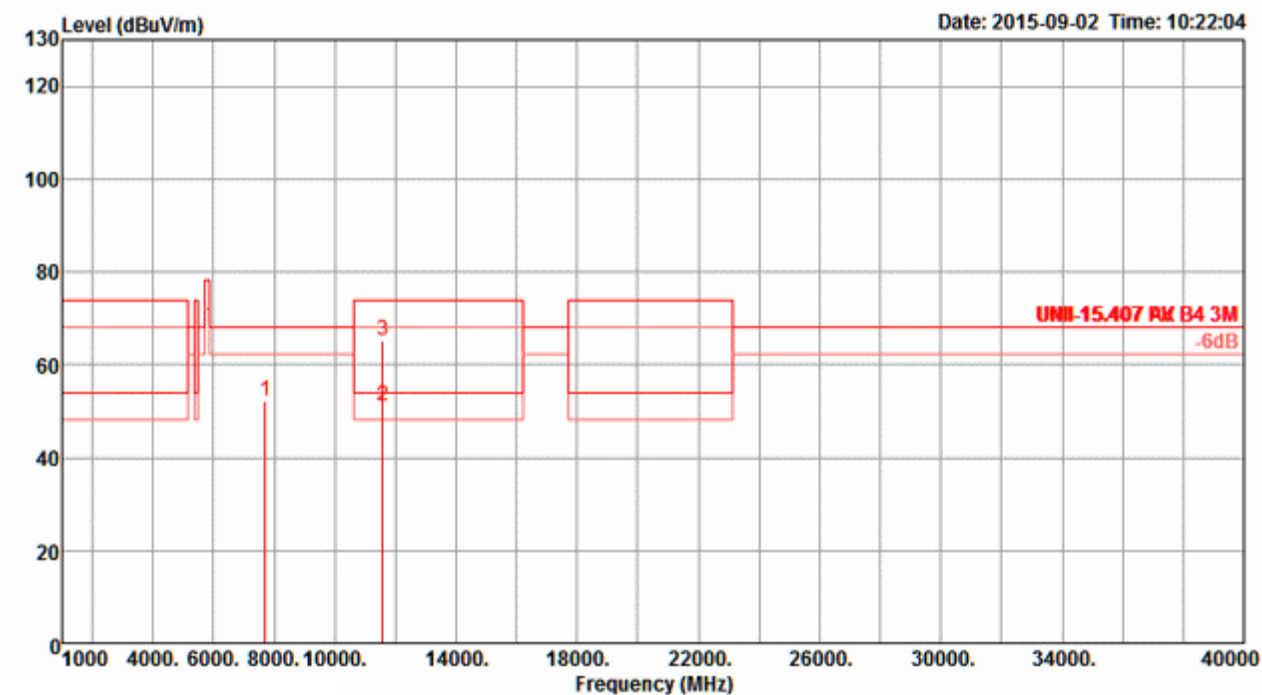
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7659.96  | 50.28  | 68.20  | -17.92 | 42.48 | 5.22         | 37.43  | 34.85 | 52    | 310 Peak    | VERTICAL  |
| 2 | 11494.72 | 56.60  | 74.00  | -17.40 | 45.99 | 6.53         | 38.70  | 34.62 | 27    | 142 Peak    | VERTICAL  |
| 3 | 11496.00 | 44.40  | 54.00  | -9.60  | 33.79 | 6.53         | 38.70  | 34.62 | 27    | 142 Average | VERTICAL  |

|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

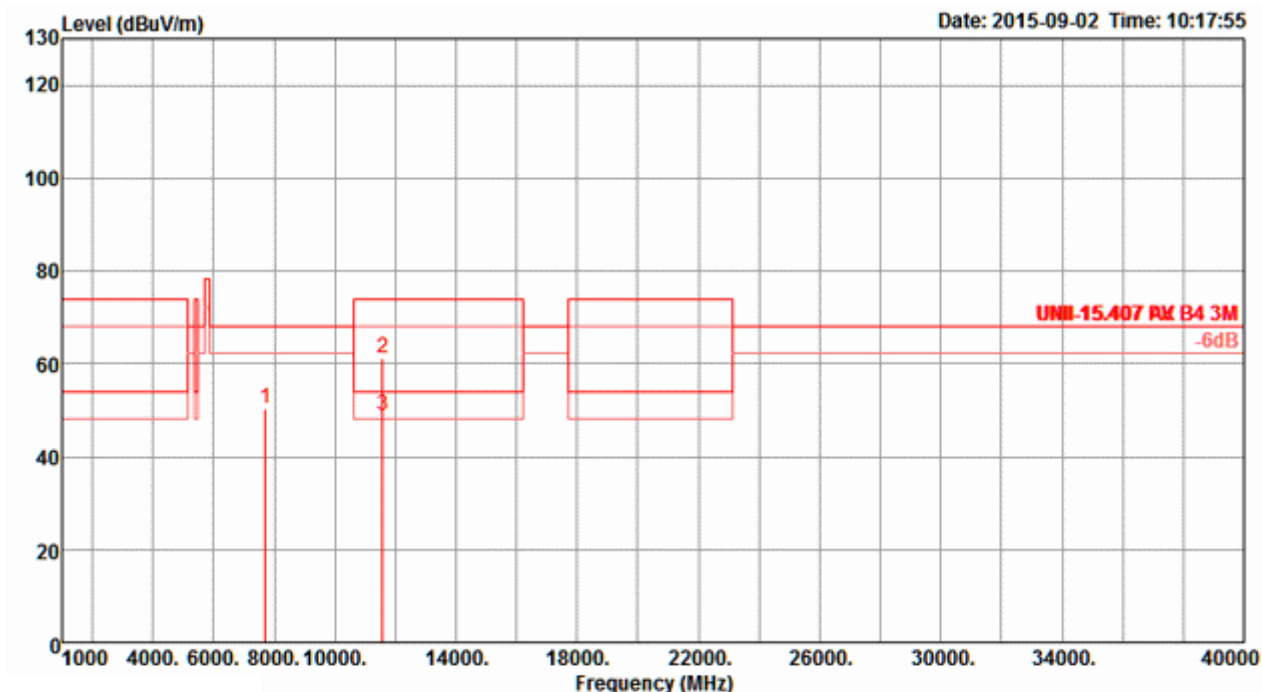
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 7713.44  | 52.29  | 68.20  | -15.91 | 44.50 | 5.25  | 37.41   | 34.87  | 290   | 154   | Peak    | HORIZONTAL |
| 2 | 11571.60 | 50.89  | 54.00  | -3.11  | 40.28 | 6.55  | 38.71   | 34.65  | 11    | 222   | Average | HORIZONTAL |
| 3 | 11572.48 | 65.08  | 74.00  | -8.92  | 54.47 | 6.55  | 38.71   | 34.65  | 11    | 222   | Peak    | HORIZONTAL |



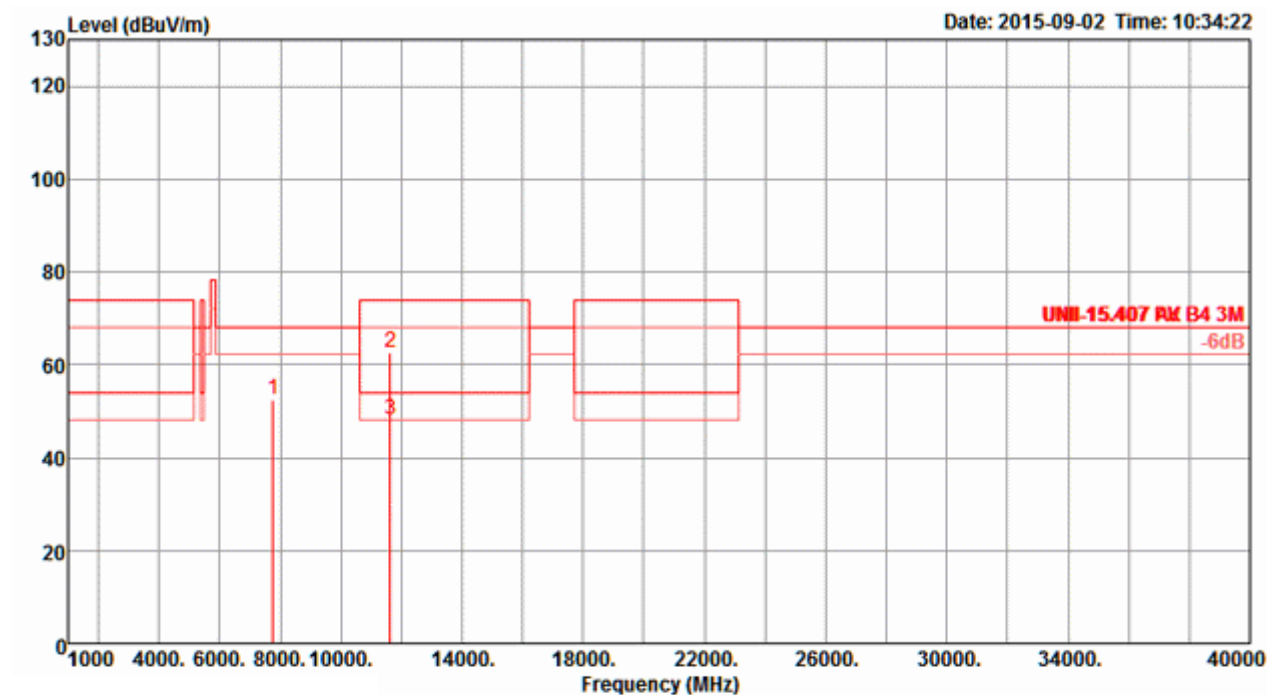
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7713.32  | 50.41  | 68.20  | -17.79 | 42.62 | 5.25         | 37.41  | 34.87 | 34    | 144 Peak    | VERTICAL  |
| 2 | 11568.68 | 61.33  | 74.00  | -12.67 | 50.71 | 6.55         | 38.71  | 34.64 | 7     | 215 Peak    | VERTICAL  |
| 3 | 11570.00 | 48.71  | 54.00  | -5.29  | 38.10 | 6.55         | 38.71  | 34.65 | 7     | 215 Average | VERTICAL  |

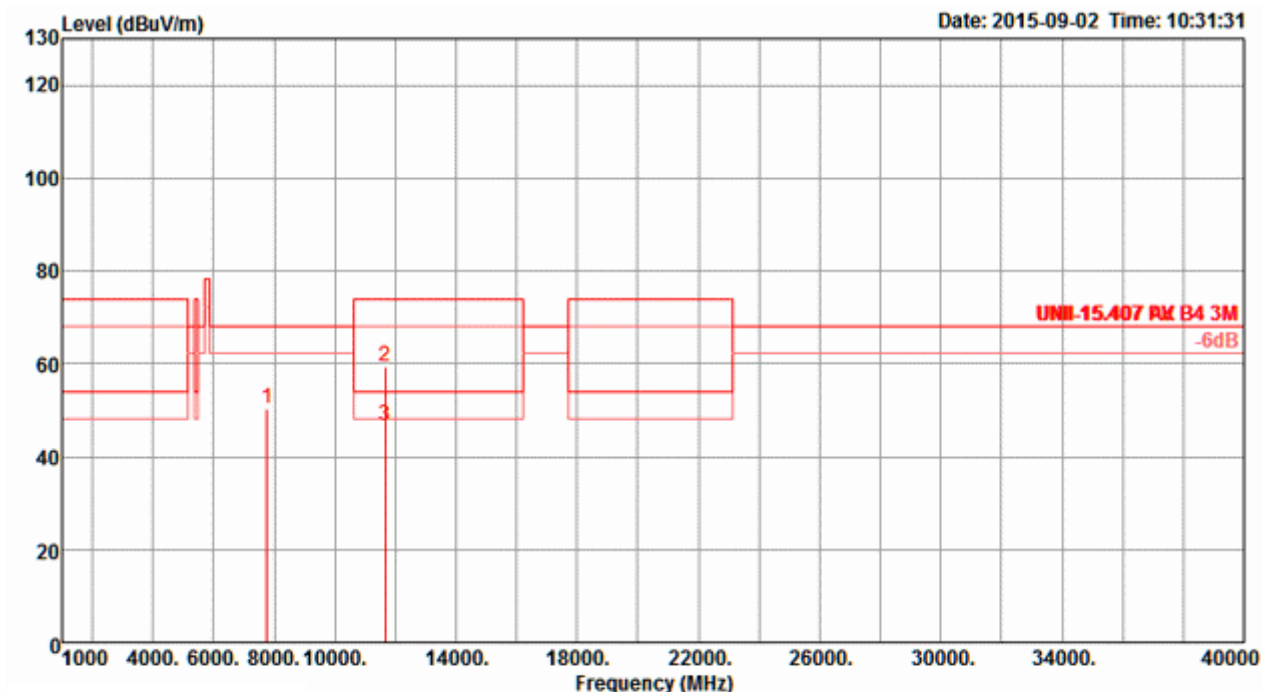
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | Cm          |            |
| 1 | 7766.63  | 52.65  | 68.20  | -15.55 | 44.87 | 5.28         | 37.39  | 34.89 | 286   | 152 Peak    | HORIZONTAL |
| 2 | 11647.96 | 62.54  | 74.00  | -11.46 | 51.93 | 6.56         | 38.73  | 34.68 | 356   | 142 Peak    | HORIZONTAL |
| 3 | 11648.80 | 48.07  | 54.00  | -5.93  | 37.46 | 6.56         | 38.73  | 34.68 | 356   | 142 Average | HORIZONTAL |

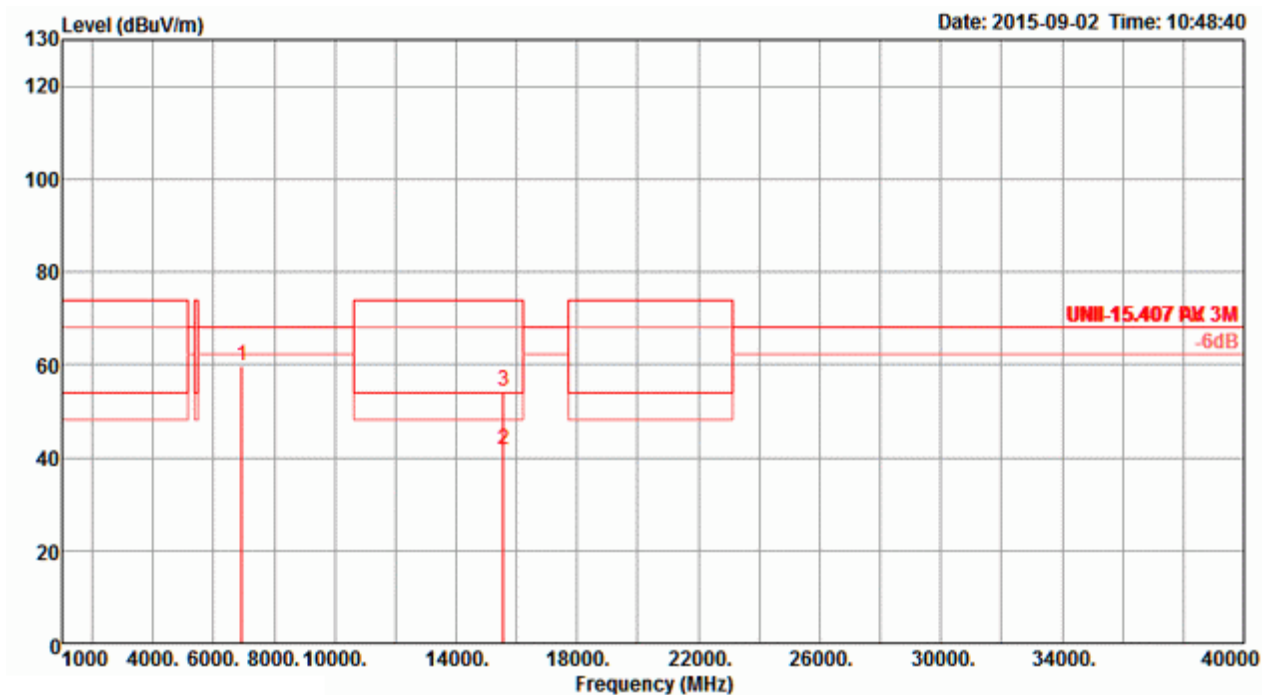
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7766.45  | 50.25  | 68.20  | -17.95 | 42.47 | 5.28         | 37.39  | 34.89 | 8     | 234 Peak    | VERTICAL  |
| 2 | 11649.52 | 59.55  | 74.00  | -14.45 | 48.94 | 6.56         | 38.73  | 34.68 | 85    | 144 Peak    | VERTICAL  |
| 3 | 11649.76 | 46.84  | 54.00  | -7.16  | 36.23 | 6.56         | 38.73  | 34.68 | 85    | 144 Average | VERTICAL  |

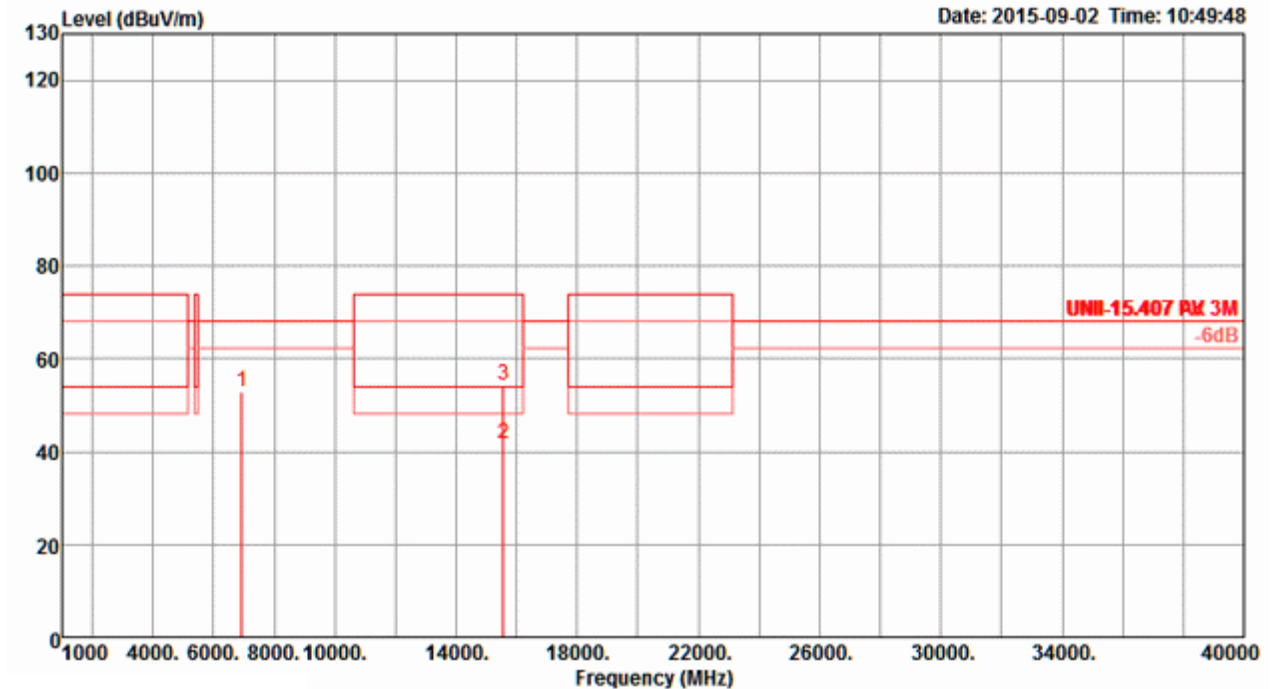
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 38 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | Cm          |            |
| 1 | 6920.02  | 59.72  | 68.20  | -8.48  | 52.82 | 4.98         | 36.61  | 34.69  | 305   | 184 Peak    | HORIZONTAL |
| 2 | 15566.72 | 41.59  | 54.00  | -12.41 | 30.44 | 7.57         | 38.22  | 34.64  | 353   | 199 Average | HORIZONTAL |
| 3 | 15571.96 | 54.37  | 74.00  | -19.63 | 43.22 | 7.57         | 38.22  | 34.64  | 353   | 199 Peak    | HORIZONTAL |

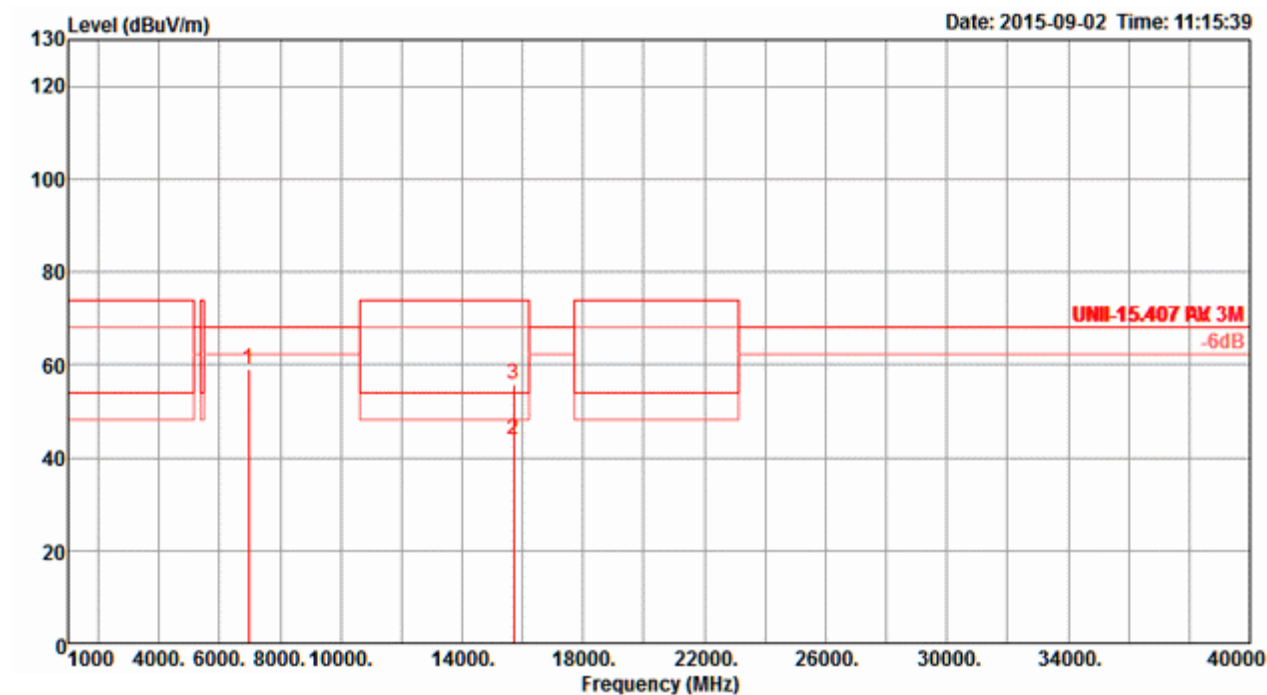
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6919.98  | 53.02  | 68.20  | -15.18 | 46.12 | 4.98         | 36.61  | 34.69 | 25    | 169 Peak    | VERTICAL  |
| 2 | 15560.04 | 41.61  | 54.00  | -12.39 | 30.50 | 7.56         | 38.19  | 34.64 | 4     | 194 Average | VERTICAL  |
| 3 | 15562.84 | 54.47  | 74.00  | -19.53 | 43.32 | 7.57         | 38.22  | 34.64 | 4     | 194 Peak    | VERTICAL  |

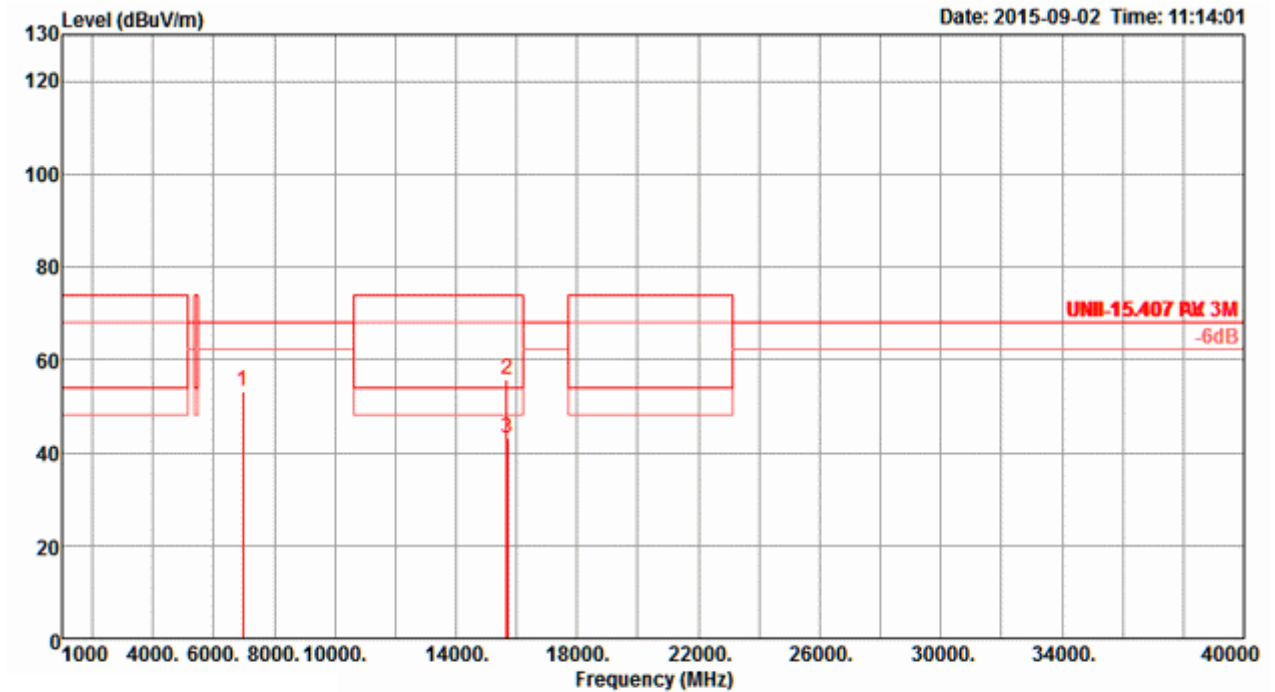
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 46 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | Cm    |         |            |
| 1 | 6973.36  | 59.09  | 68.20  | -9.11  | 52.07 | 5.00  | 36.72   | 34.70  | 308   | 168   | Peak    | HORIZONTAL |
| 2 | 15687.86 | 43.80  | 54.00  | -10.20 | 32.50 | 7.61  | 38.44   | 34.75  | 317   | 186   | Average | HORIZONTAL |
| 3 | 15691.70 | 55.85  | 74.00  | -18.15 | 44.55 | 7.61  | 38.44   | 34.75  | 317   | 186   | Peak    | HORIZONTAL |

### Vertical

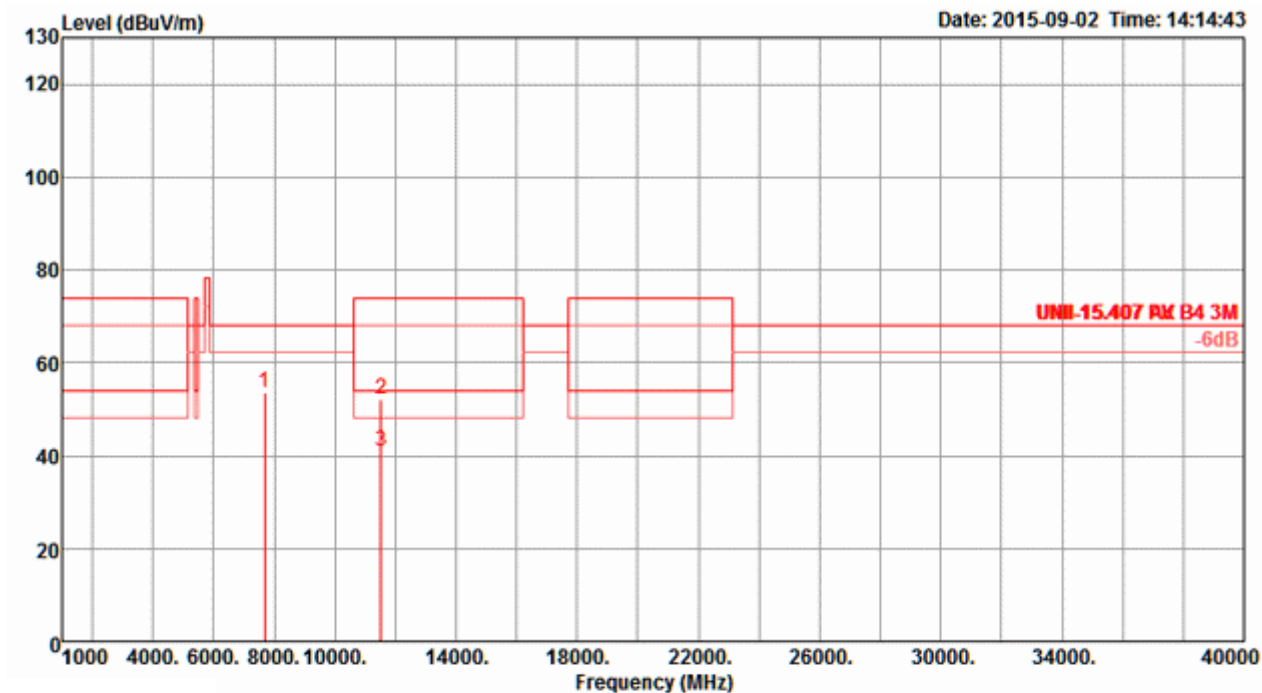


|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6973.36  | 53.16  | 68.20  | -15.04 | 46.14 | 5.00         | 36.72  | 34.70 | 26    | 181 Peak    | VERTICAL  |
| 2 | 15685.22 | 55.83  | 74.00  | -18.17 | 44.53 | 7.61         | 38.44  | 34.75 | 84    | 192 Peak    | VERTICAL  |
| 3 | 15691.96 | 43.20  | 54.00  | -10.80 | 31.90 | 7.61         | 38.44  | 34.75 | 84    | 192 Average | VERTICAL  |



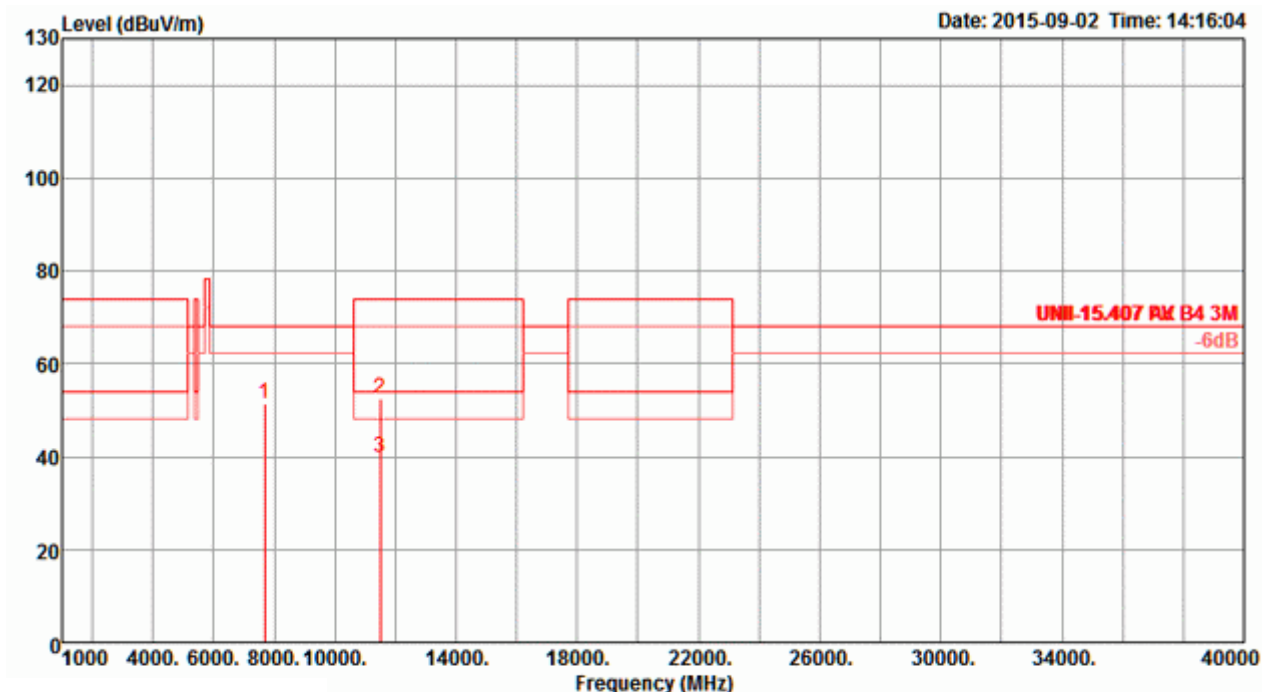
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 151 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 7673.28  | 53.64  | 68.20  | -14.56 | 45.84 | 5.23         | 37.43  | 34.86 | 287   | 167 Peak    | HORIZONTAL |
| 2 | 11512.76 | 52.31  | 74.00  | -21.69 | 41.69 | 6.54         | 38.70  | 34.62 | 329   | 156 Peak    | HORIZONTAL |
| 3 | 11513.00 | 40.91  | 54.00  | -13.09 | 30.29 | 6.54         | 38.70  | 34.62 | 329   | 156 Average | HORIZONTAL |

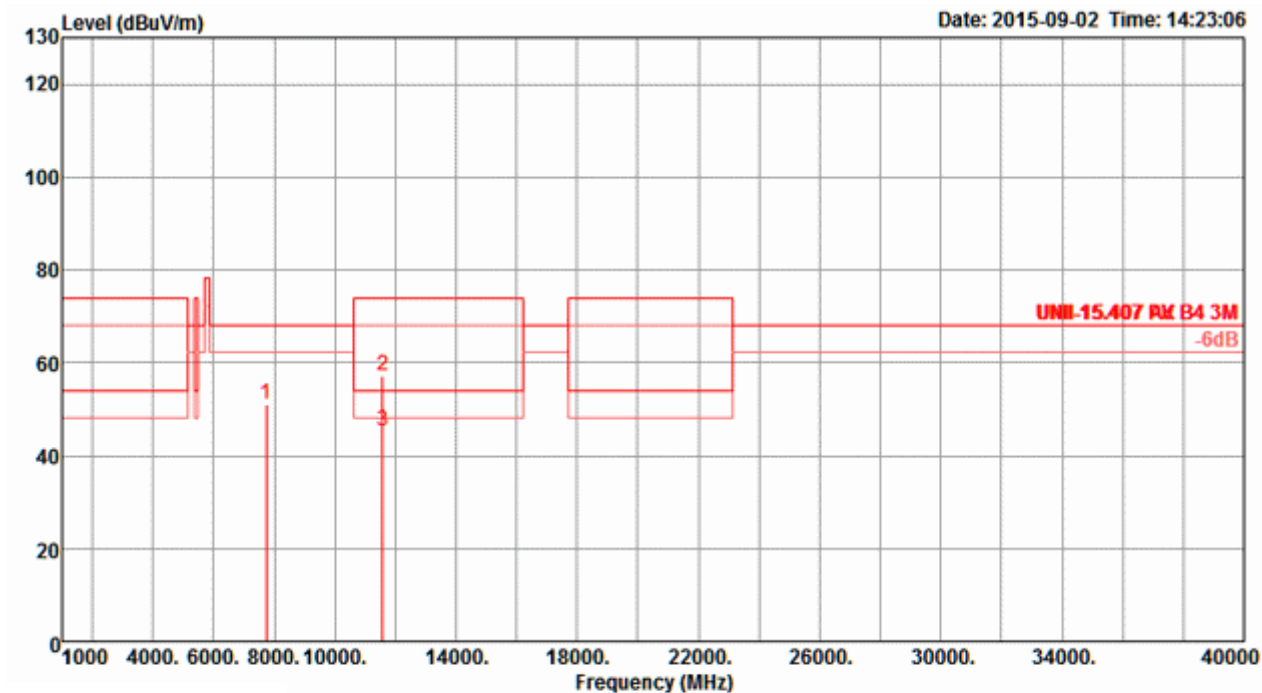
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7673.25  | 51.58  | 68.20  | -16.62 | 43.78 | 5.23         | 37.43  | 34.86 | 37    | 156 Peak    | VERTICAL  |
| 2 | 11509.94 | 52.51  | 74.00  | -21.49 | 41.89 | 6.54         | 38.70  | 34.62 | 3     | 156 Peak    | VERTICAL  |
| 3 | 11509.94 | 39.89  | 54.00  | -14.11 | 29.27 | 6.54         | 38.70  | 34.62 | 3     | 156 Average | VERTICAL  |

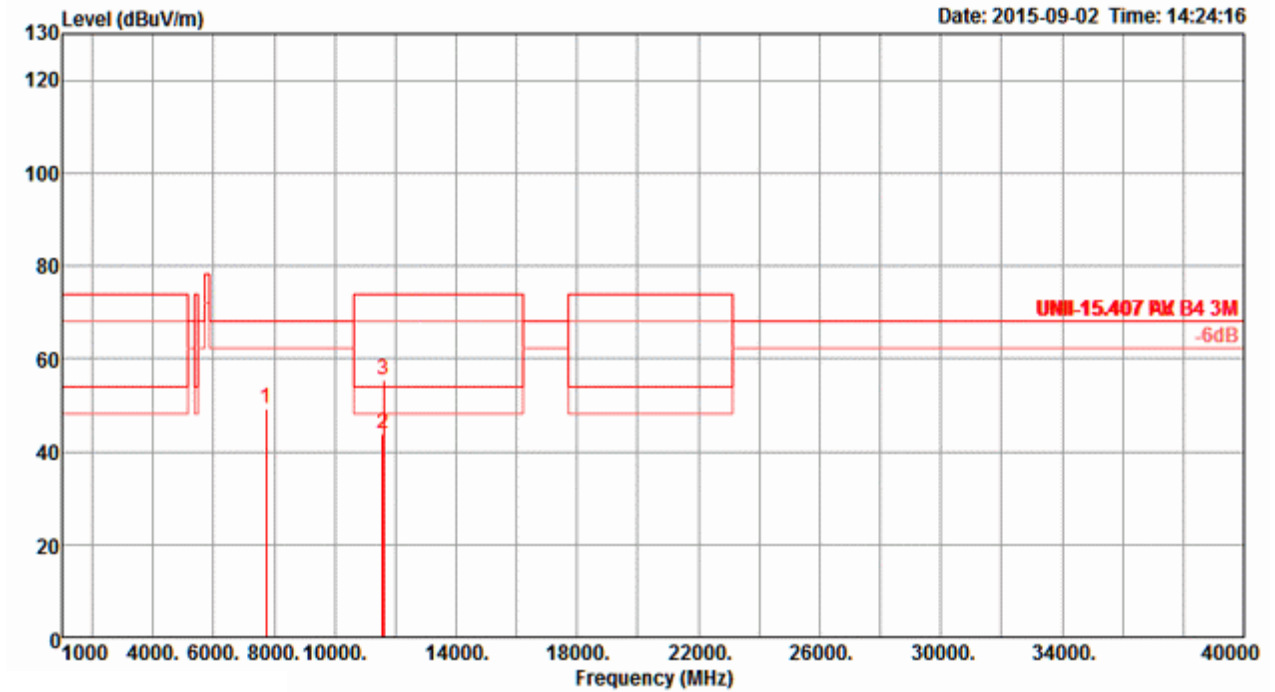
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 159 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | Cm          |            |
| 1 | 7726.83  | 50.91  | 68.20  | -17.29 | 43.12 | 5.26         | 37.41  | 34.88 | 284   | 173 Peak    | HORIZONTAL |
| 2 | 11584.08 | 57.15  | 74.00  | -16.85 | 46.53 | 6.55         | 38.72  | 34.65 | 327   | 160 Peak    | HORIZONTAL |
| 3 | 11584.88 | 45.26  | 54.00  | -8.74  | 34.64 | 6.55         | 38.72  | 34.65 | 327   | 160 Average | HORIZONTAL |

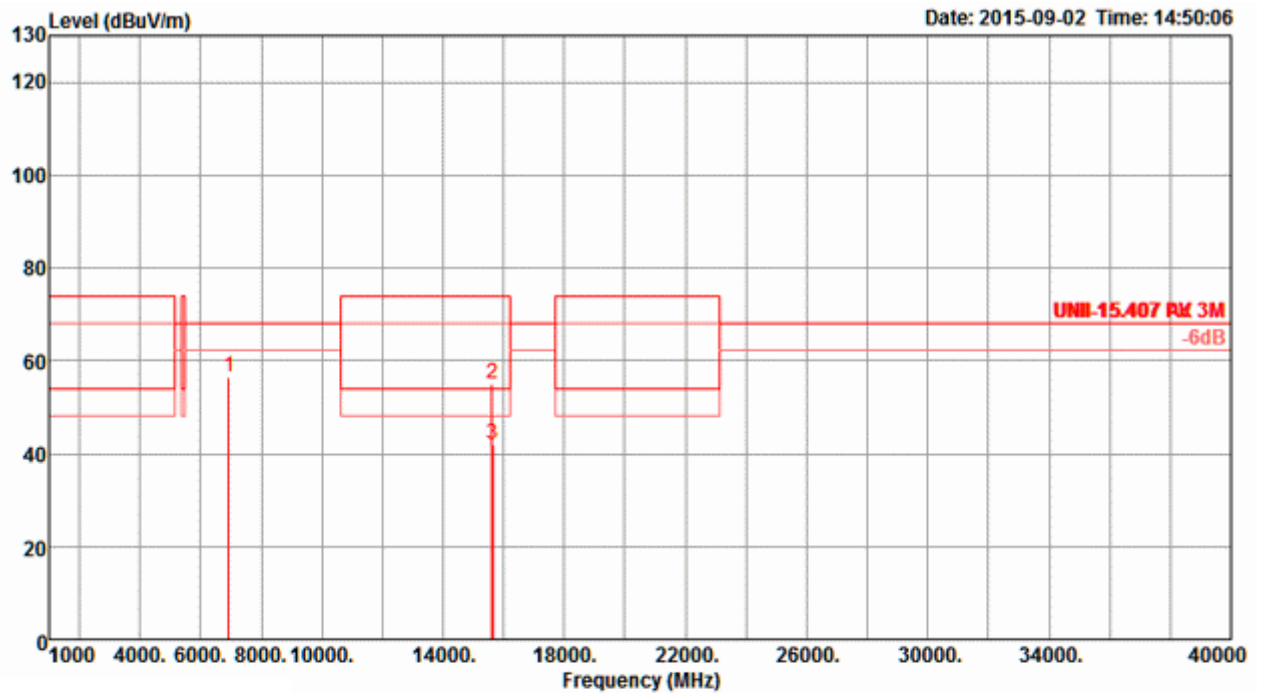
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7726.48  | 49.38  | 68.20  | -18.82 | 41.59 | 5.26         | 37.41  | 34.88 | 82    | 151 Peak    | VERTICAL  |
| 2 | 11582.64 | 43.79  | 54.00  | -10.21 | 33.17 | 6.55         | 38.72  | 34.65 | 350   | 155 Average | VERTICAL  |
| 3 | 11601.84 | 55.45  | 74.00  | -18.55 | 44.84 | 6.55         | 38.72  | 34.66 | 350   | 155 Peak    | VERTICAL  |

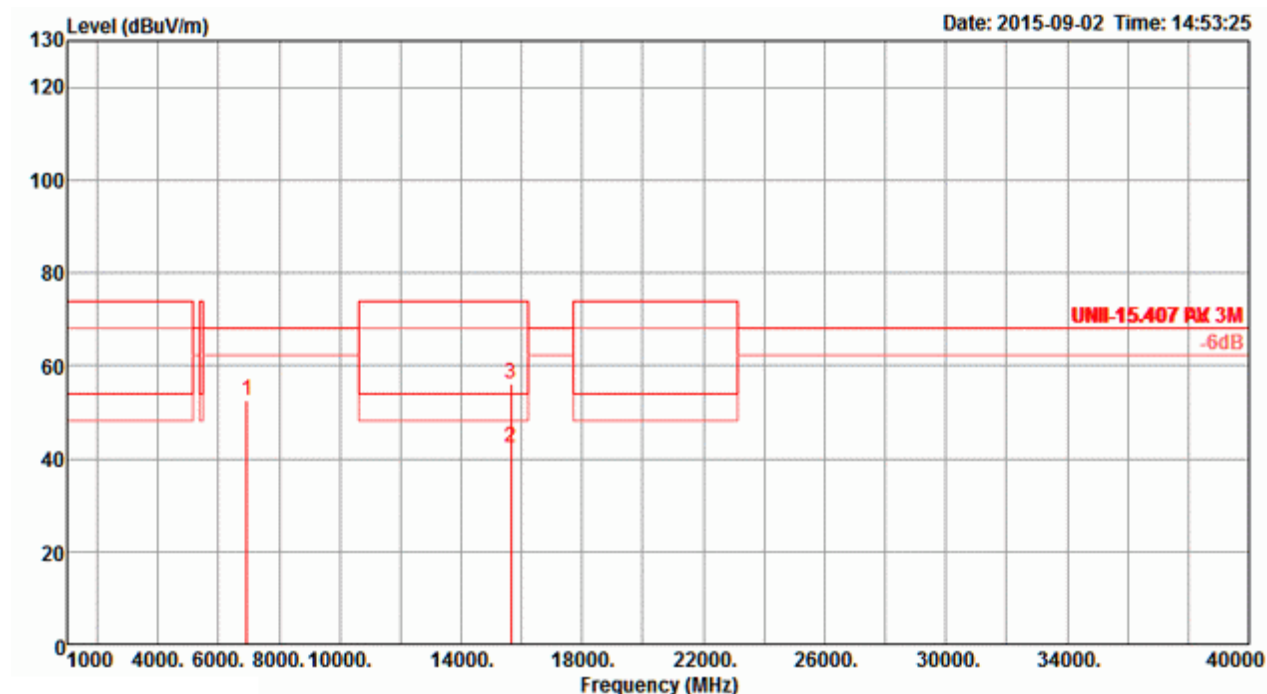
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 42 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | Cm          |            |
| 1 | 6946.60  | 56.65  | 68.20  | -11.55 | 49.66 | 4.99         | 36.69  | 34.69  | 299   | 188 Peak    | HORIZONTAL |
| 2 | 15628.21 | 54.90  | 74.00  | -19.10 | 43.70 | 7.59         | 38.32  | 34.71  | 182   | 166 Peak    | HORIZONTAL |
| 3 | 15632.43 | 42.17  | 54.00  | -11.83 | 30.94 | 7.59         | 38.35  | 34.71  | 182   | 166 Average | HORIZONTAL |

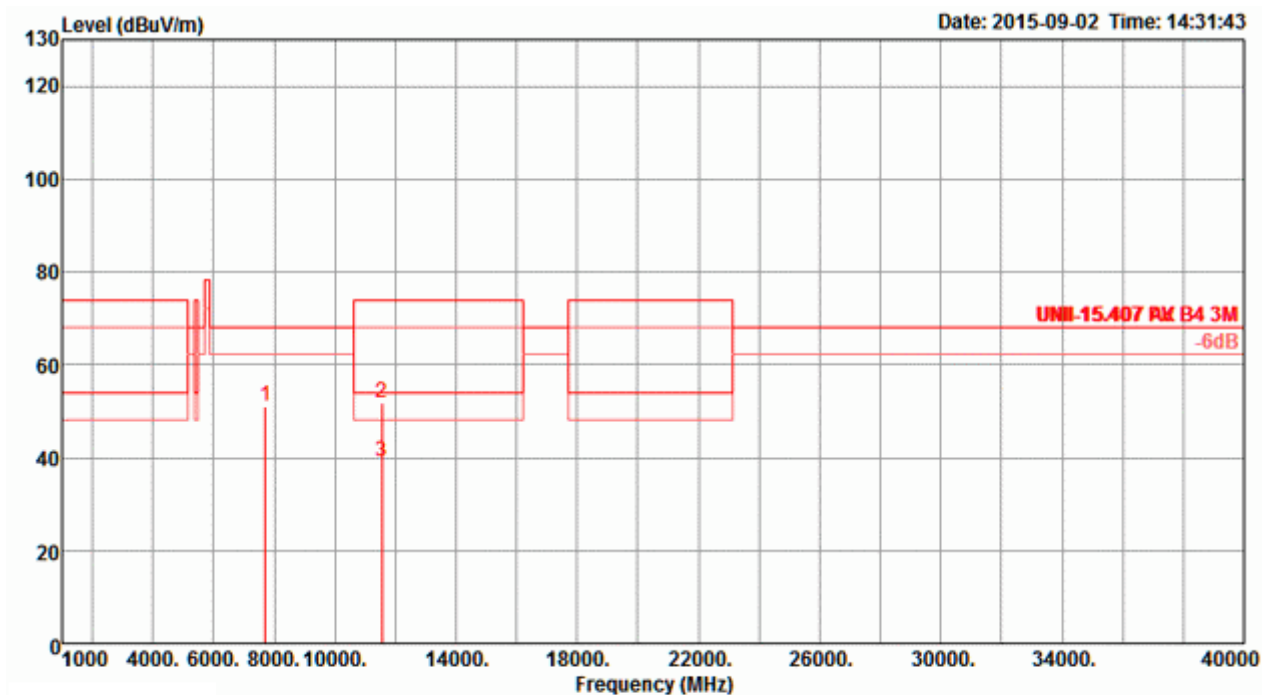
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6946.69  | 52.36  | 68.20  | -15.84 | 45.37 | 4.99         | 36.69  | 34.69 | 324   | 163 Peak    | VERTICAL  |
| 2 | 15632.80 | 42.33  | 54.00  | -11.67 | 31.10 | 7.59         | 38.35  | 34.71 | 81    | 163 Average | VERTICAL  |
| 3 | 15633.88 | 56.25  | 74.00  | -17.75 | 45.02 | 7.59         | 38.35  | 34.71 | 81    | 163 Peak    | VERTICAL  |

|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 155 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

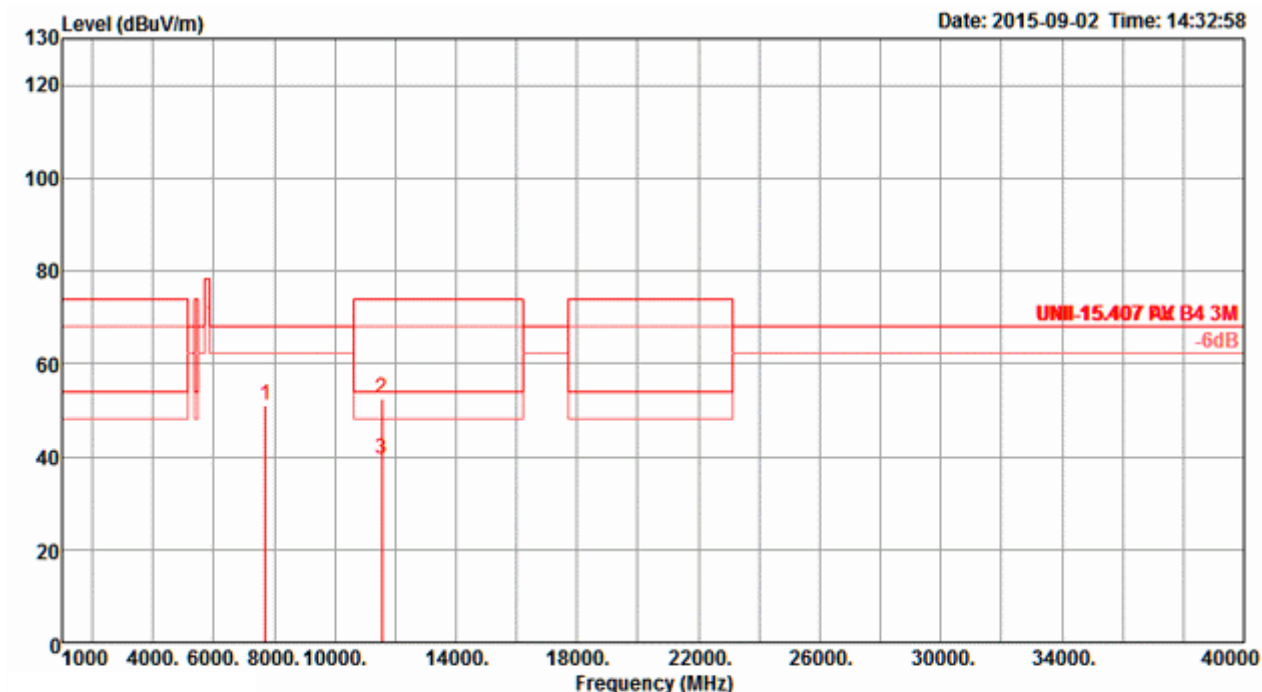
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 7700.00  | 50.92  | 68.20  | -17.28 | 43.13 | 5.24         | 37.42  | 34.87 | 287   | 181 Peak    | HORIZONTAL |
| 2 | 11546.20 | 51.70  | 74.00  | -22.30 | 41.09 | 6.54         | 38.71  | 34.64 | 126   | 161 Peak    | VERTICAL   |
| 3 | 11550.04 | 39.17  | 54.00  | -14.83 | 28.55 | 6.55         | 38.71  | 34.64 | 126   | 161 Average | VERTICAL   |



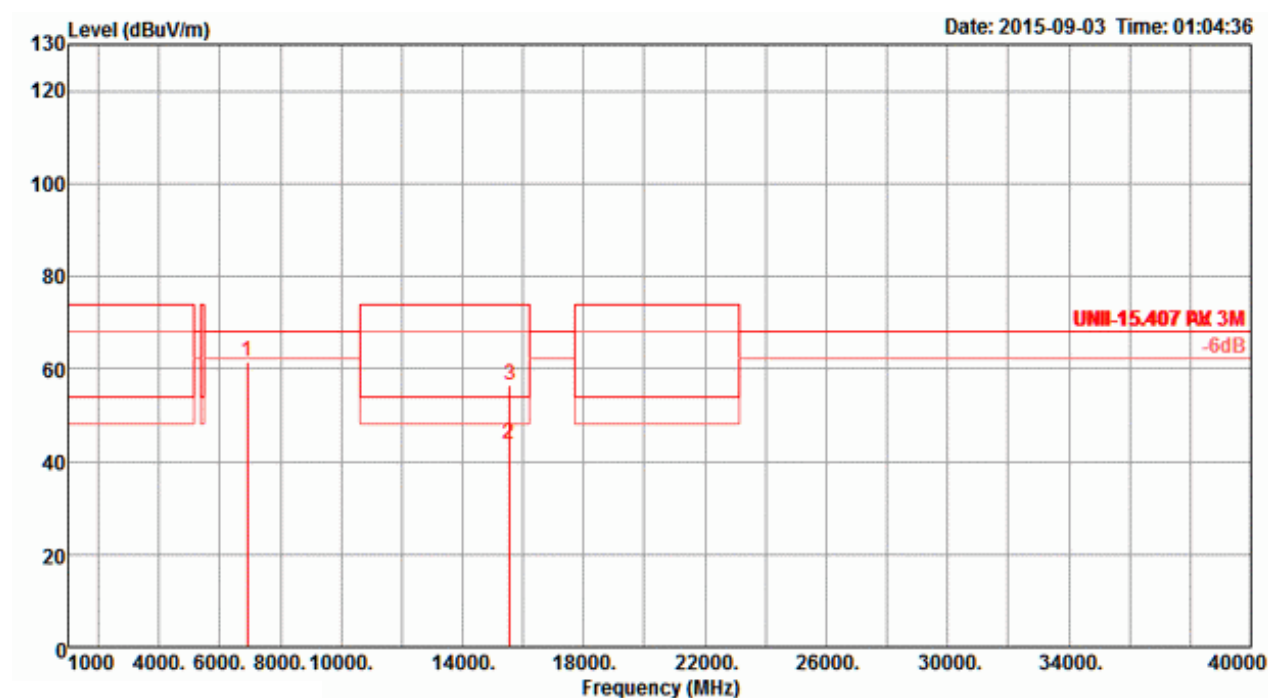
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7700.25  | 51.02  | 68.20  | -17.18 | 43.23 | 5.24         | 37.42  | 34.87 | 56    | 180 Peak    | VERTICAL  |
| 2 | 11546.20 | 52.43  | 74.00  | -21.57 | 41.82 | 6.54         | 38.71  | 34.64 | 359   | 162 Peak    | VERTICAL  |
| 3 | 11548.56 | 39.43  | 54.00  | -14.57 | 28.81 | 6.55         | 38.71  | 34.64 | 359   | 162 Average | VERTICAL  |

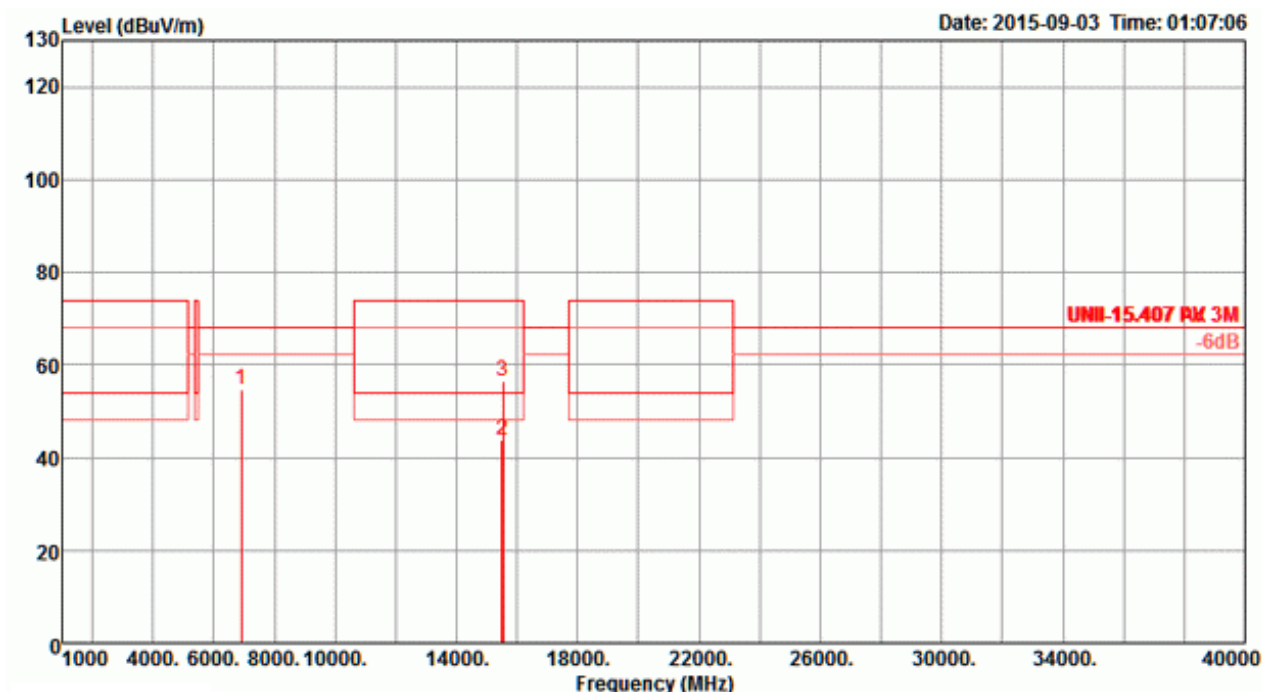
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6906.63  | 61.72  | 68.20  | -6.48  | 54.87 | 4.97         | 36.57  | 34.69 | 302   | 177 Peak    | HORIZONTAL |
| 2 | 15521.50 | 43.82  | 54.00  | -10.18 | 32.74 | 7.55         | 38.13  | 34.60 | 34    | 172 Average | HORIZONTAL |
| 3 | 15555.10 | 56.34  | 74.00  | -17.66 | 45.23 | 7.56         | 38.19  | 34.64 | 34    | 172 Peak    | HORIZONTAL |

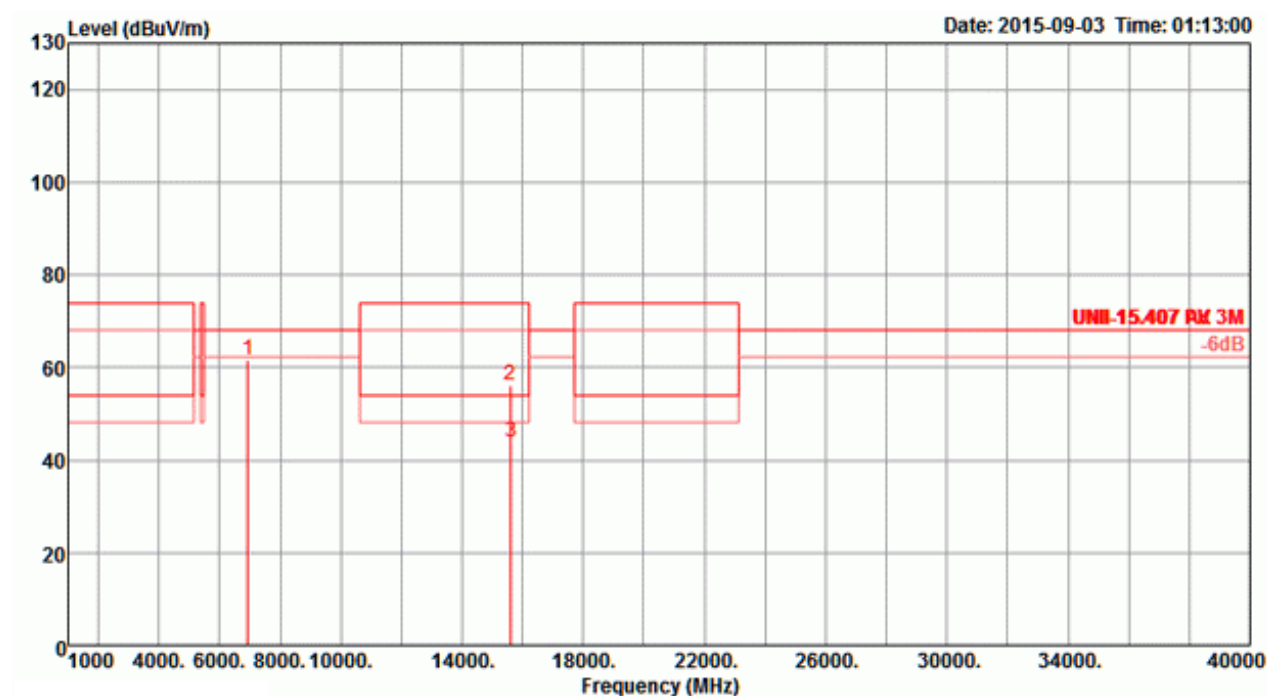
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | cm          |           |
| 1 | 6906.61  | 54.64  | 68.20  | -13.56 | 47.79 | 4.97         | 36.57  | 34.69  | 320   | 150 Peak    | VERTICAL  |
| 2 | 15516.20 | 43.92  | 54.00  | -10.08 | 32.84 | 7.55         | 38.13  | 34.60  | 97    | 159 Average | VERTICAL  |
| 3 | 15521.70 | 56.33  | 74.00  | -17.67 | 45.25 | 7.55         | 38.13  | 34.60  | 97    | 159 Peak    | VERTICAL  |

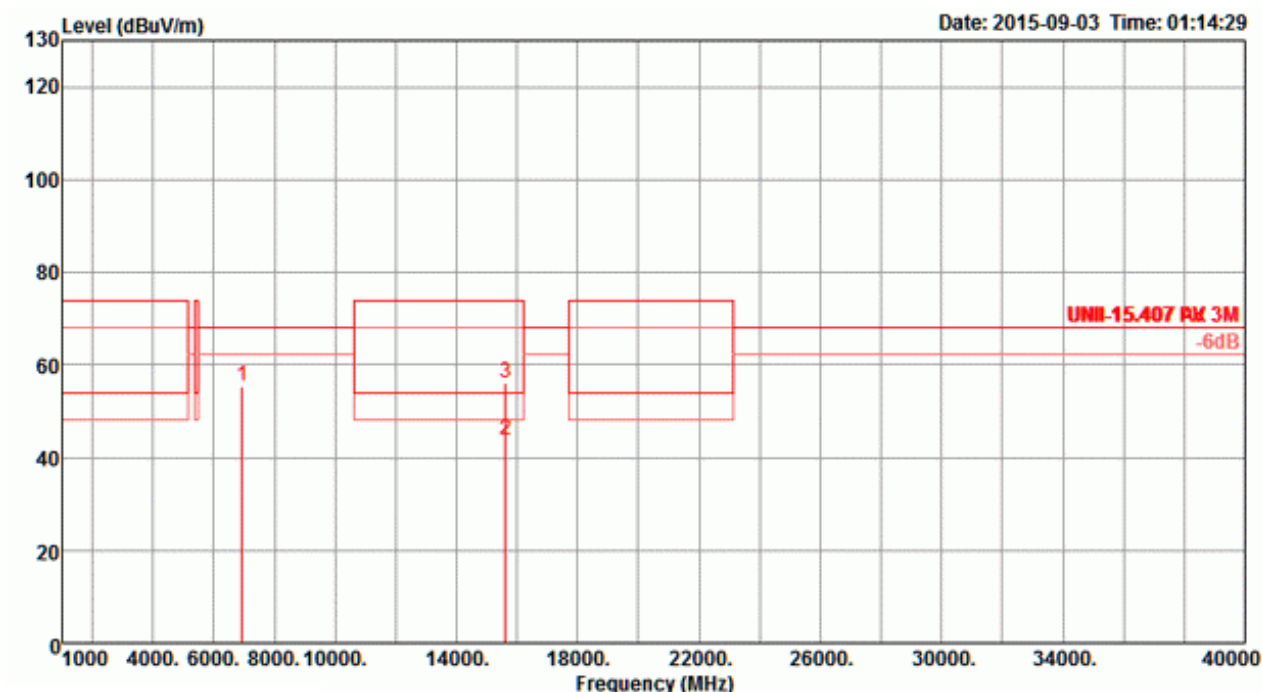
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6933.33  | 61.46  | 68.20  | -6.74  | 54.52 | 4.98         | 36.65  | 34.69 | 300   | 191 Peak    | HORIZONTAL |
| 2 | 15589.50 | 56.02  | 74.00  | -17.98 | 44.86 | 7.57         | 38.26  | 34.67 | 265   | 202 Peak    | HORIZONTAL |
| 3 | 15606.60 | 43.80  | 54.00  | -10.20 | 32.62 | 7.58         | 38.29  | 34.69 | 265   | 202 Average | HORIZONTAL |

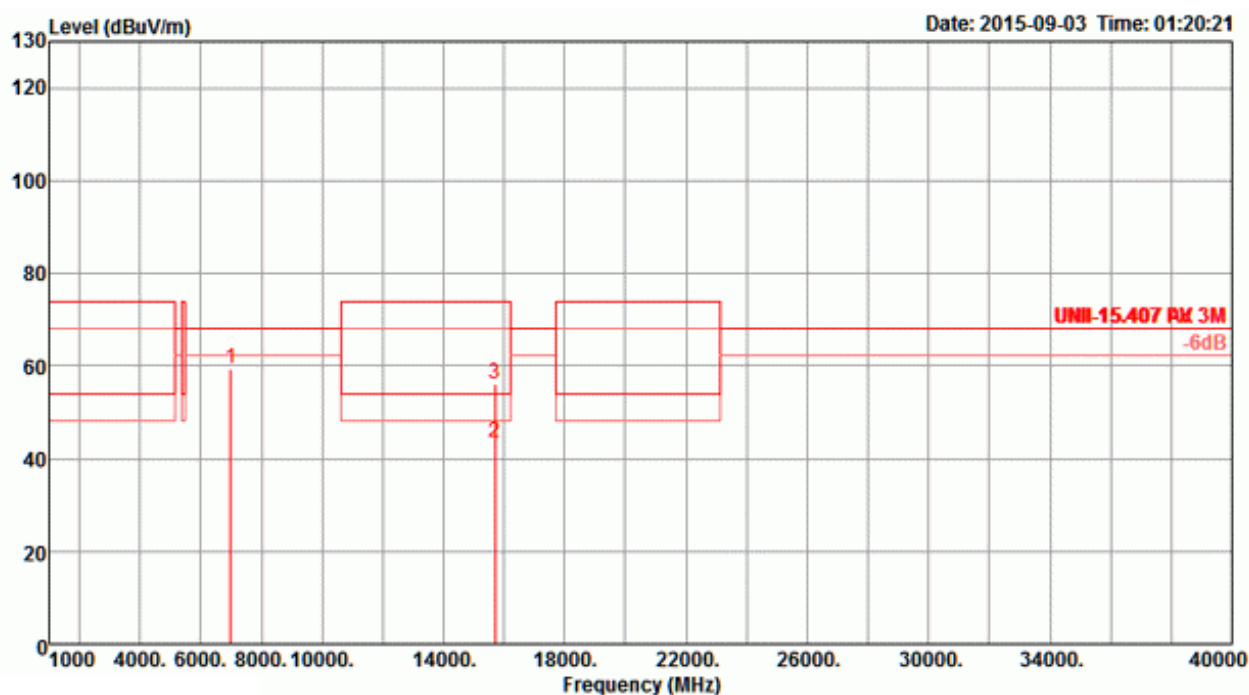
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | cm          |           |
| 1 | 6933.40  | 55.47  | 68.20  | -12.73 | 48.53 | 4.98         | 36.65  | 34.69  | 321   | 181 Peak    | VERTICAL  |
| 2 | 15604.60 | 43.93  | 54.00  | -10.07 | 32.75 | 7.58         | 38.29  | 34.69  | 284   | 167 Average | VERTICAL  |
| 3 | 15609.50 | 56.28  | 74.00  | -17.72 | 45.10 | 7.58         | 38.29  | 34.69  | 284   | 167 Peak    | VERTICAL  |

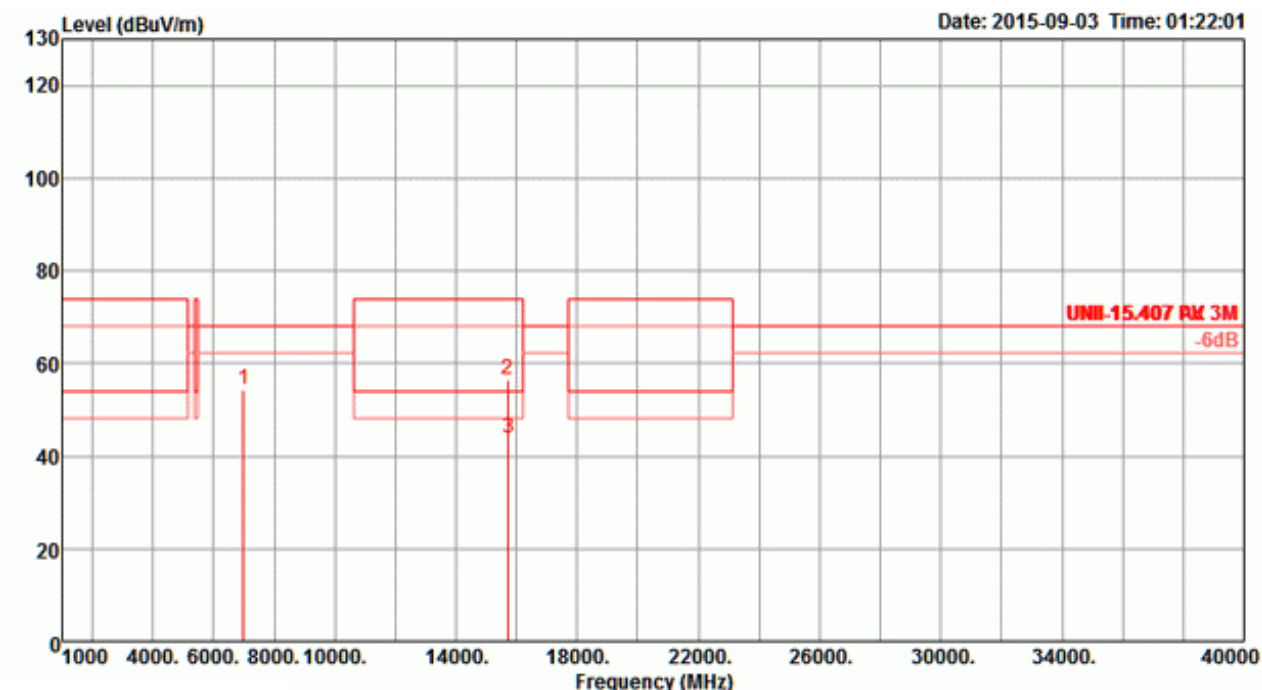
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6986.59  | 59.36  | 68.20  | -8.84  | 52.30 | 5.01         | 36.76  | 34.71 | 51    | 156 Peak    | HORIZONTAL |
| 2 | 15705.70 | 43.36  | 54.00  | -10.64 | 32.05 | 7.62         | 38.47  | 34.78 | 112   | 201 Average | HORIZONTAL |
| 3 | 15711.10 | 56.30  | 74.00  | -17.70 | 44.99 | 7.62         | 38.47  | 34.78 | 112   | 201 Peak    | HORIZONTAL |

## Vertical

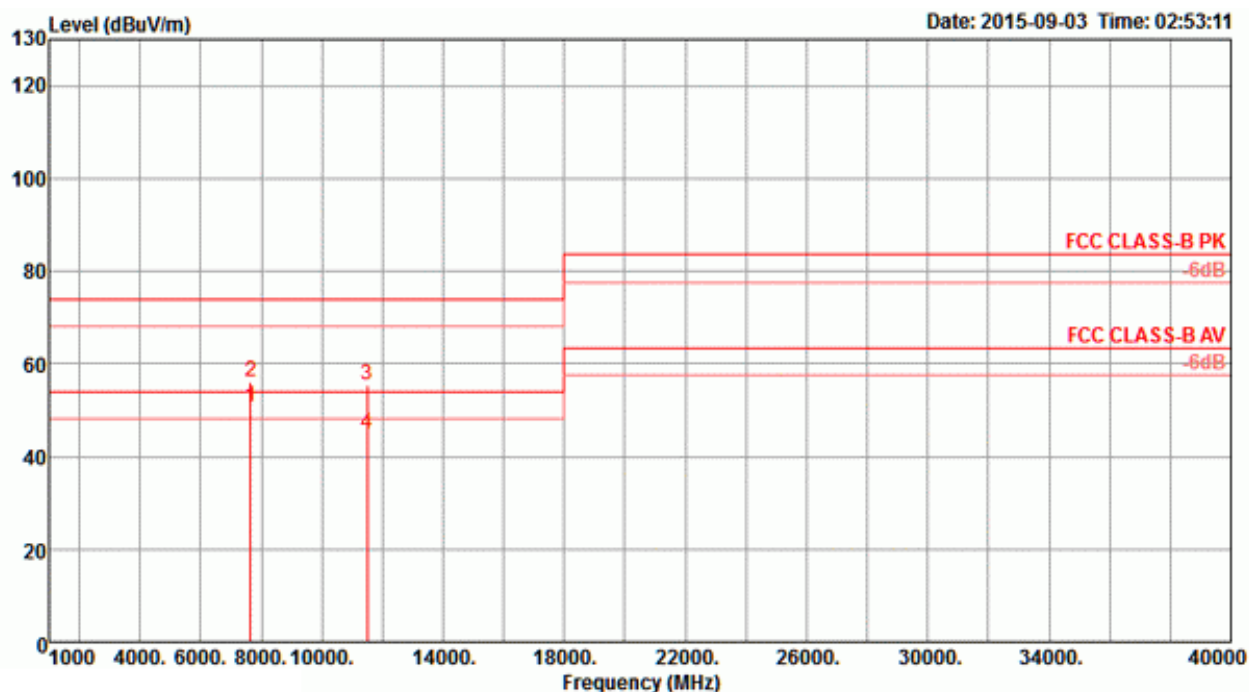


|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6986.62  | 54.26  | 68.20  | -13.94 | 47.20 | 5.01         | 36.76  | 34.71 | 322   | 189 Peak    | VERTICAL  |
| 2 | 15695.90 | 56.36  | 74.00  | -17.64 | 45.06 | 7.61         | 38.44  | 34.75 | 165   | 184 Peak    | VERTICAL  |
| 3 | 15718.90 | 43.66  | 54.00  | -10.34 | 32.32 | 7.62         | 38.50  | 34.78 | 165   | 184 Average | VERTICAL  |



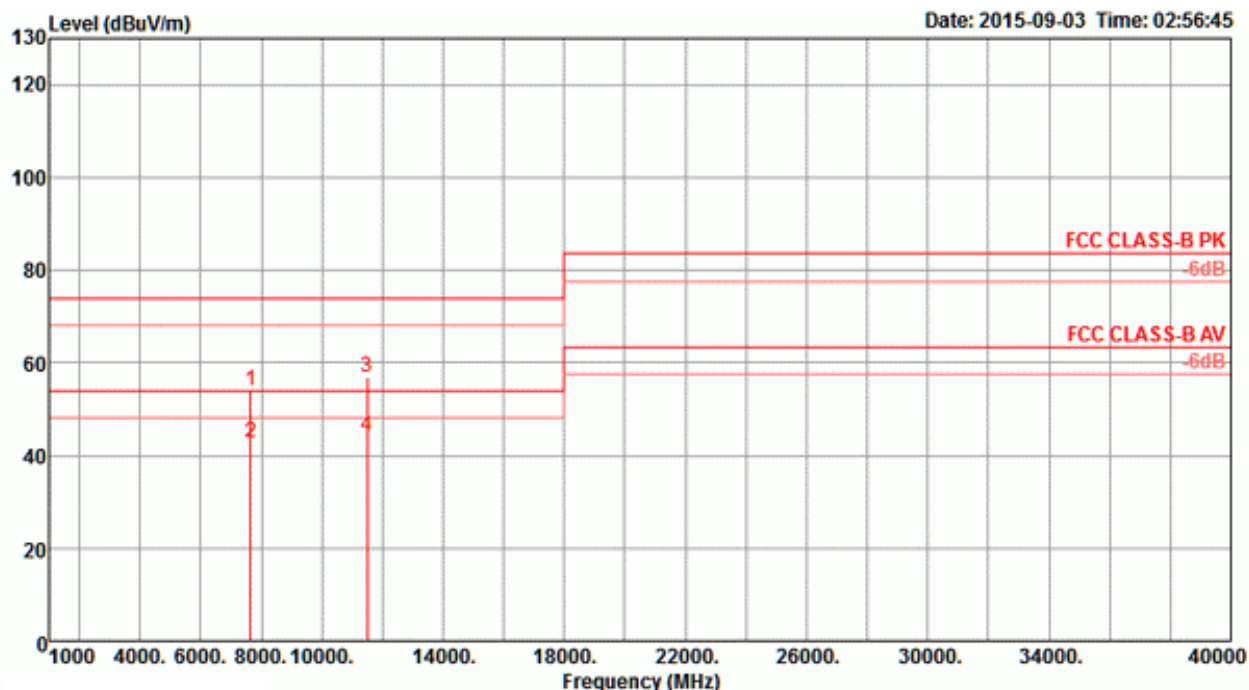
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 149 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7660.06  | 50.65  | 54.00  | -3.35  | 42.85 | 5.22  | 37.43   | 34.85  | 283   | 151   | Average | HORIZONTAL |
| 2 | 7660.29  | 56.26  | 74.00  | -17.74 | 48.46 | 5.22  | 37.43   | 34.85  | 283   | 151   | Peak    | HORIZONTAL |
| 3 | 11489.30 | 55.56  | 74.00  | -18.44 | 44.95 | 6.53  | 38.70   | 34.62  | 20    | 150   | Peak    | HORIZONTAL |
| 4 | 11490.40 | 44.95  | 54.00  | -9.05  | 34.34 | 6.53  | 38.70   | 34.62  | 20    | 150   | Average | HORIZONTAL |

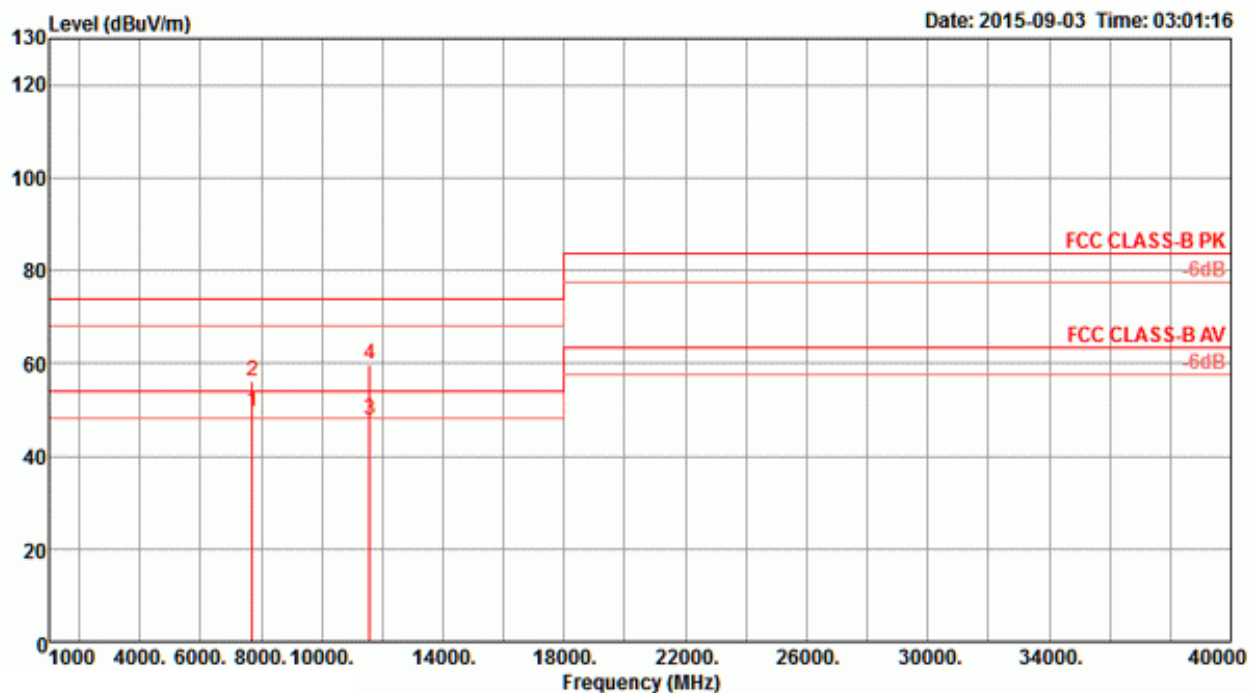
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7659.54  | 53.78  | 74.00  | -20.22 | 45.98 | 5.22         | 37.43  | 34.85 | 5     | 154 Peak    | VERTICAL  |
| 2 | 7660.10  | 42.57  | 54.00  | -11.43 | 34.77 | 5.22         | 37.43  | 34.85 | 5     | 154 Average | VERTICAL  |
| 3 | 11491.20 | 56.76  | 74.00  | -17.24 | 46.15 | 6.53         | 38.70  | 34.62 | 333   | 146 Peak    | VERTICAL  |
| 4 | 11491.80 | 44.12  | 54.00  | -9.88  | 33.51 | 6.53         | 38.70  | 34.62 | 333   | 146 Average | VERTICAL  |

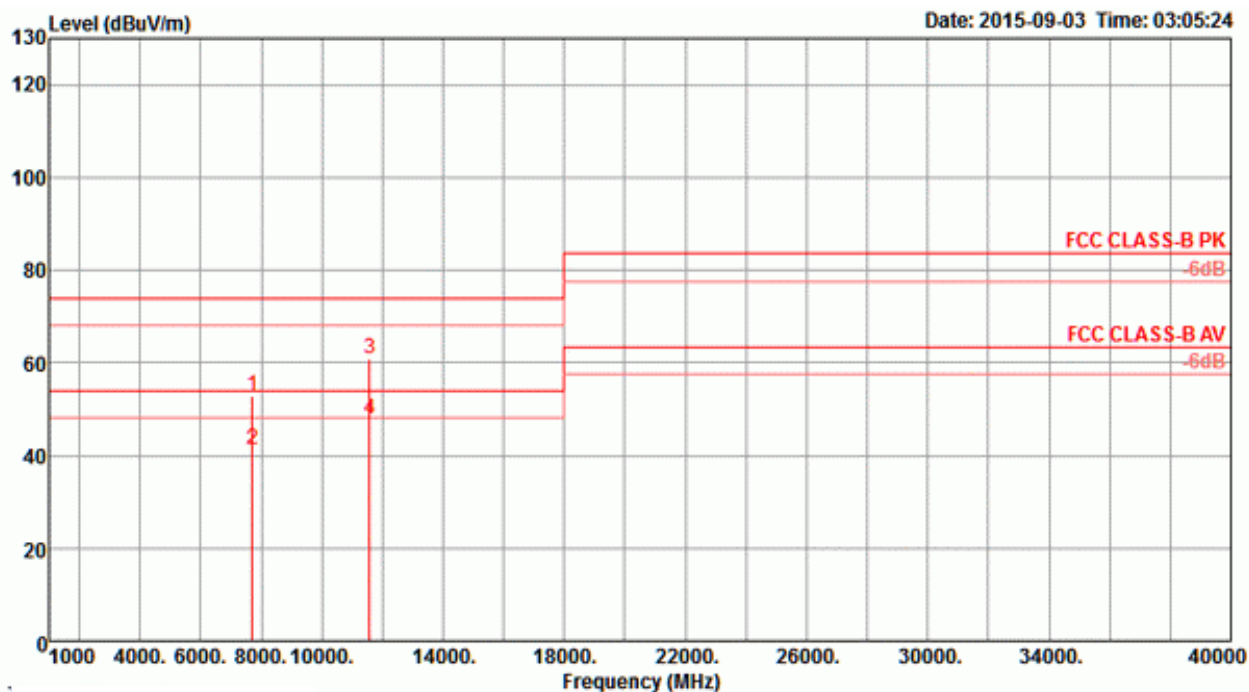
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 157 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 7713.36  | 49.51  | 54.00  | -4.49  | 41.72 | 5.25         | 37.41  | 34.87 | 282   | 144 Average | HORIZONTAL |
| 2 | 7713.40  | 56.09  | 74.00  | -17.91 | 48.30 | 5.25         | 37.41  | 34.87 | 282   | 144 Peak    | HORIZONTAL |
| 3 | 11570.10 | 47.90  | 54.00  | -6.10  | 37.29 | 6.55         | 38.71  | 34.65 | 22    | 146 Average | HORIZONTAL |
| 4 | 11571.60 | 59.68  | 74.00  | -14.32 | 49.07 | 6.55         | 38.71  | 34.65 | 22    | 146 Peak    | HORIZONTAL |

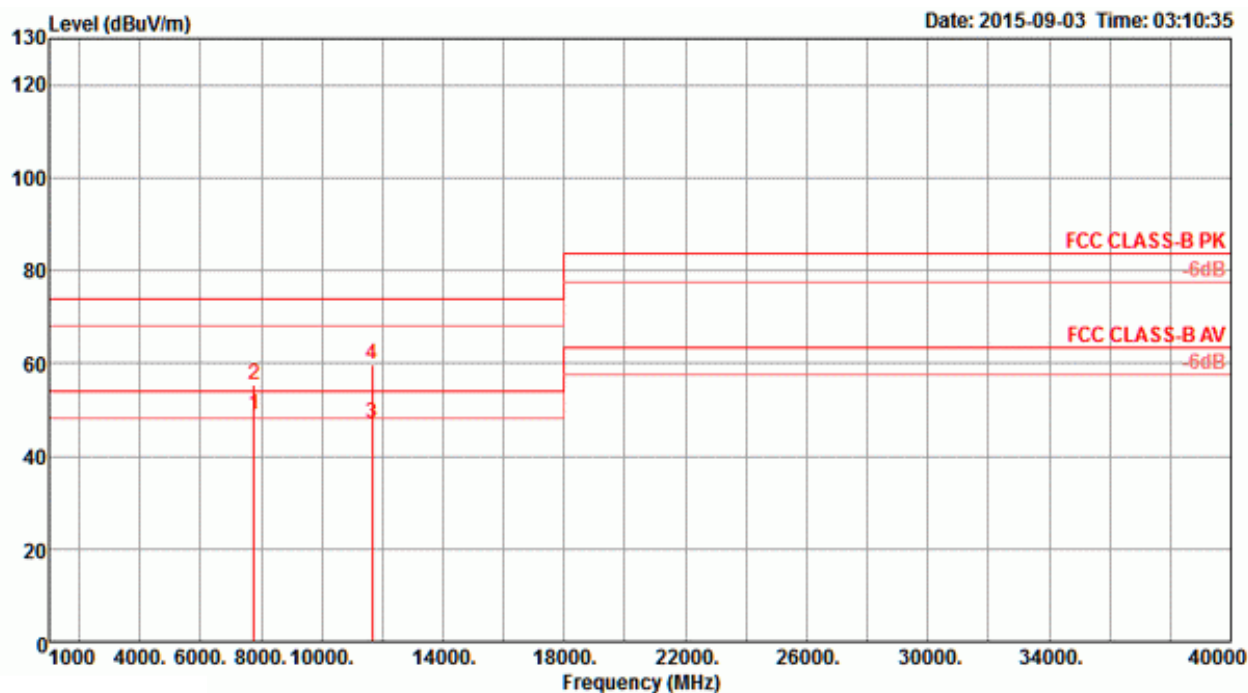
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7713.37  | 52.78  | 74.00  | -21.22 | 44.99 | 5.25         | 37.41  | 34.87 | 5     | 167 Peak    | VERTICAL  |
| 2 | 7713.45  | 41.35  | 54.00  | -12.65 | 33.56 | 5.25         | 37.41  | 34.87 | 5     | 167 Average | VERTICAL  |
| 3 | 11569.50 | 60.82  | 74.00  | -13.18 | 50.20 | 6.55         | 38.71  | 34.64 | 332   | 146 Peak    | VERTICAL  |
| 4 | 11569.80 | 47.94  | 54.00  | -6.06  | 37.33 | 6.55         | 38.71  | 34.65 | 332   | 146 Average | VERTICAL  |

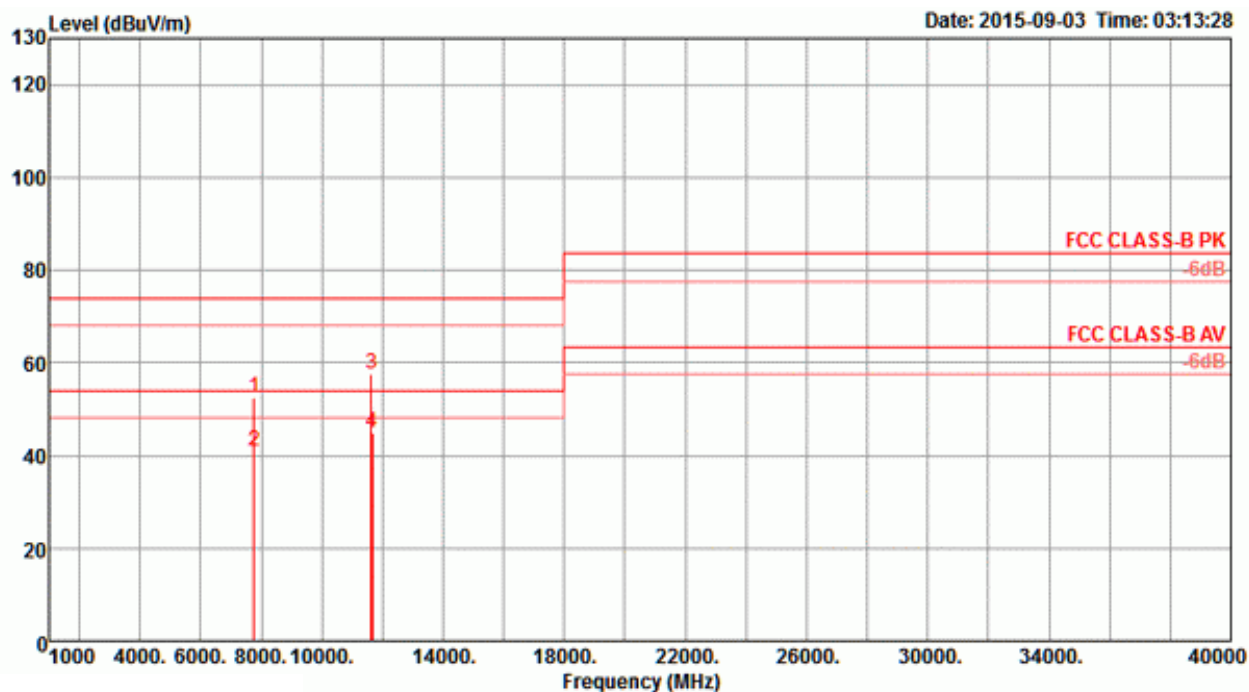
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 7766.68  | 48.88  | 54.00  | -5.12  | 41.10 | 5.28         | 37.39  | 34.89 | 285   | 160 Average | HORIZONTAL |
| 2 | 7766.71  | 55.47  | 74.00  | -18.53 | 47.69 | 5.28         | 37.39  | 34.89 | 285   | 160 Peak    | HORIZONTAL |
| 3 | 11650.90 | 47.07  | 54.00  | -6.93  | 36.46 | 6.56         | 38.73  | 34.68 | 9     | 158 Average | HORIZONTAL |
| 4 | 11651.20 | 59.69  | 74.00  | -14.31 | 49.08 | 6.56         | 38.73  | 34.68 | 9     | 158 Peak    | HORIZONTAL |

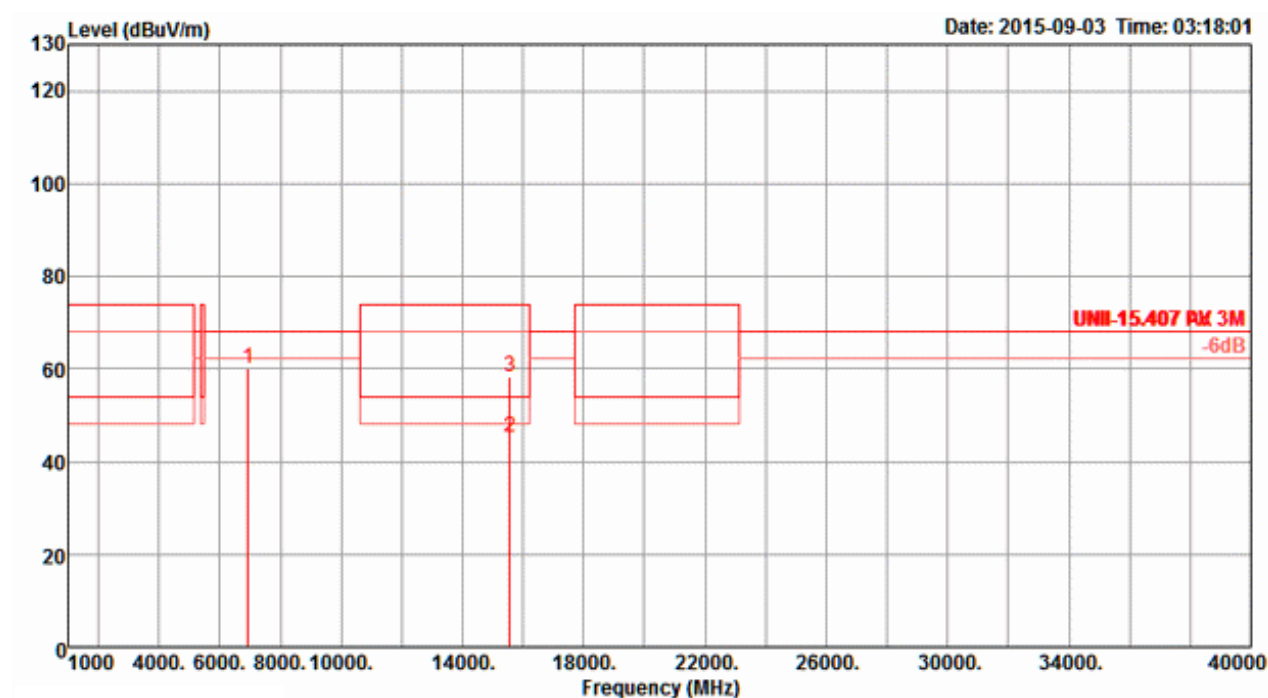
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7766.60  | 52.38  | 74.00  | -21.62 | 44.60 | 5.28         | 37.39  | 34.89 | 28    | 152 Peak    | VERTICAL  |
| 2 | 7766.65  | 40.82  | 54.00  | -13.18 | 33.04 | 5.28         | 37.39  | 34.89 | 28    | 152 Average | VERTICAL  |
| 3 | 11647.90 | 57.61  | 74.00  | -16.39 | 47.00 | 6.56         | 38.73  | 34.68 | 28    | 159 Peak    | VERTICAL  |
| 4 | 11650.50 | 44.92  | 54.00  | -9.08  | 34.31 | 6.56         | 38.73  | 34.68 | 28    | 159 Average | VERTICAL  |

|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT40 CH 38 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

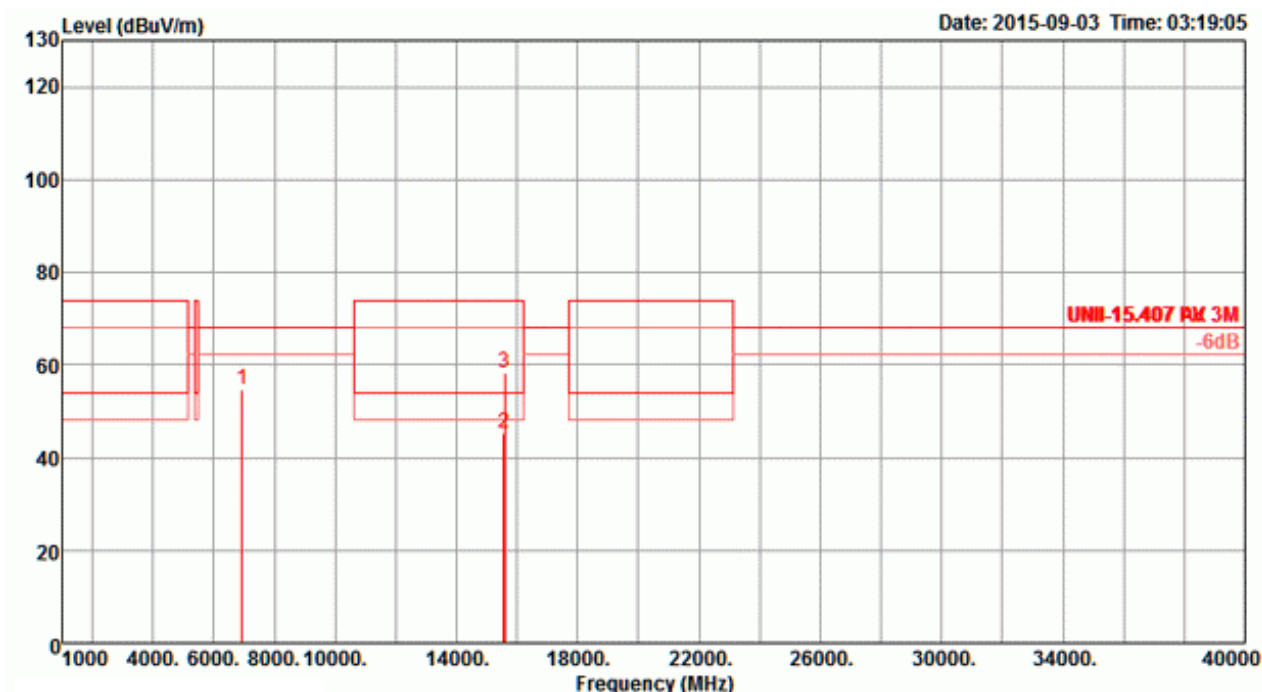
### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6919.95  | 60.26  | 68.20  | -7.94  | 53.36 | 4.98         | 36.61  | 34.69 | 295   | 194 Peak    | HORIZONTAL |
| 2 | 15559.60 | 45.42  | 54.00  | -8.58  | 34.31 | 7.56         | 38.19  | 34.64 | 329   | 178 Average | HORIZONTAL |
| 3 | 15572.30 | 58.31  | 74.00  | -15.69 | 47.16 | 7.57         | 38.22  | 34.64 | 329   | 178 Peak    | HORIZONTAL |



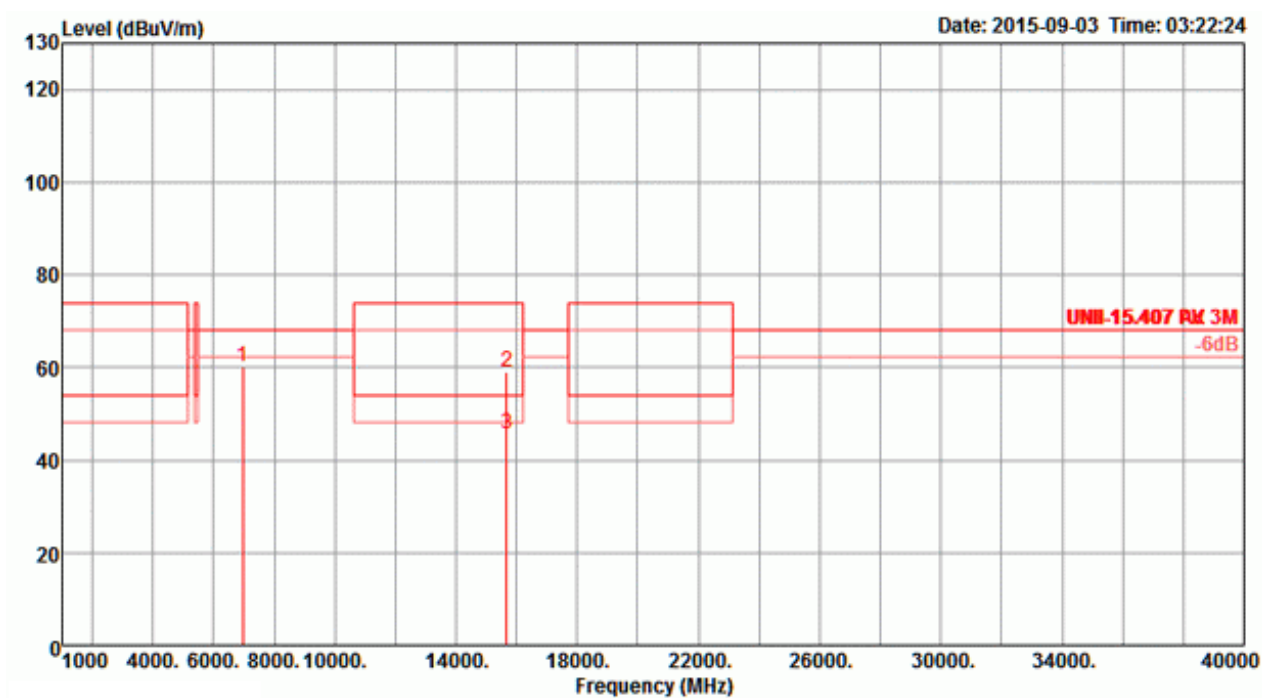
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos  | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|--------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | deg   | cm          |           |
| 1 | 6919.93  | 54.82  | 68.20  | -13.38 | 47.92 | 4.98         | 36.61  | 34.69  | 320   | 167 Peak    | VERTICAL  |
| 2 | 15570.00 | 45.31  | 54.00  | -8.69  | 34.16 | 7.57         | 38.22  | 34.64  | 304   | 167 Average | VERTICAL  |
| 3 | 15592.70 | 58.40  | 74.00  | -15.60 | 47.24 | 7.57         | 38.26  | 34.67  | 304   | 167 Peak    | VERTICAL  |

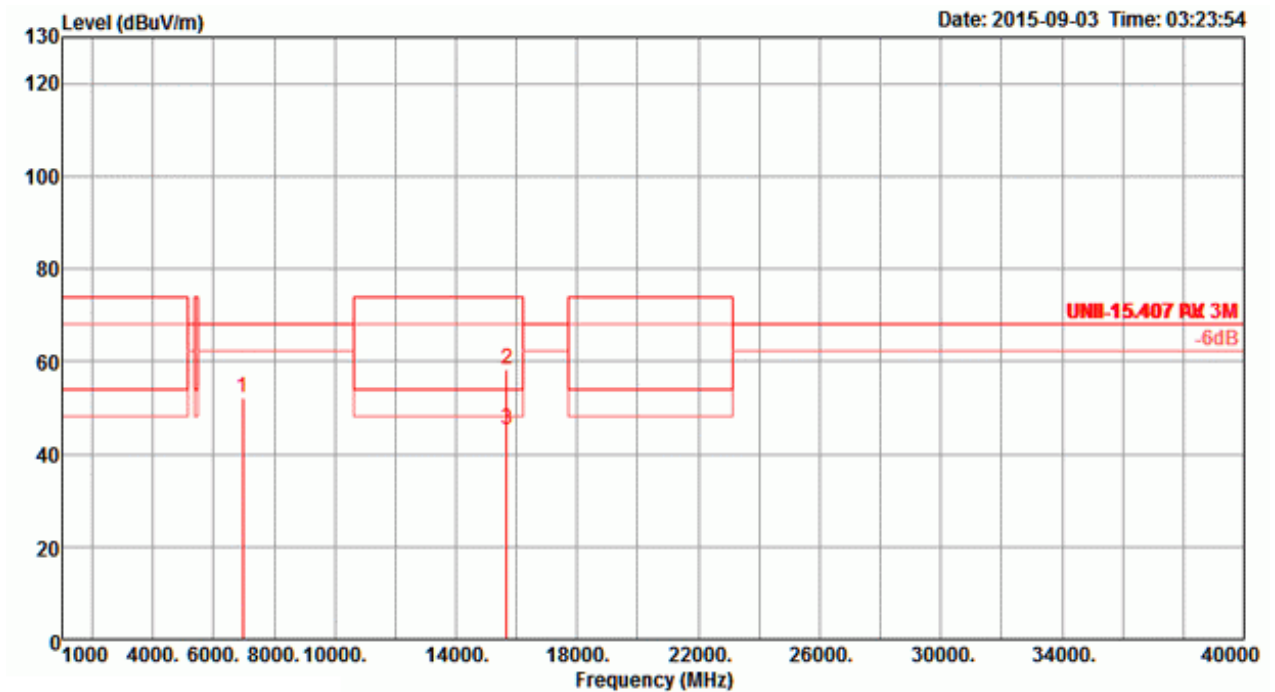
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT40 CH 46 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6973.28  | 60.25  | 68.20  | -7.95  | 53.23 | 5.00         | 36.72  | 34.70 | 57    | 157 Peak    | HORIZONTAL |
| 2 | 15680.20 | 58.89  | 74.00  | -15.11 | 47.59 | 7.61         | 38.44  | 34.75 | 108   | 172 Peak    | HORIZONTAL |
| 3 | 15686.60 | 45.62  | 54.00  | -8.38  | 34.32 | 7.61         | 38.44  | 34.75 | 108   | 172 Average | HORIZONTAL |

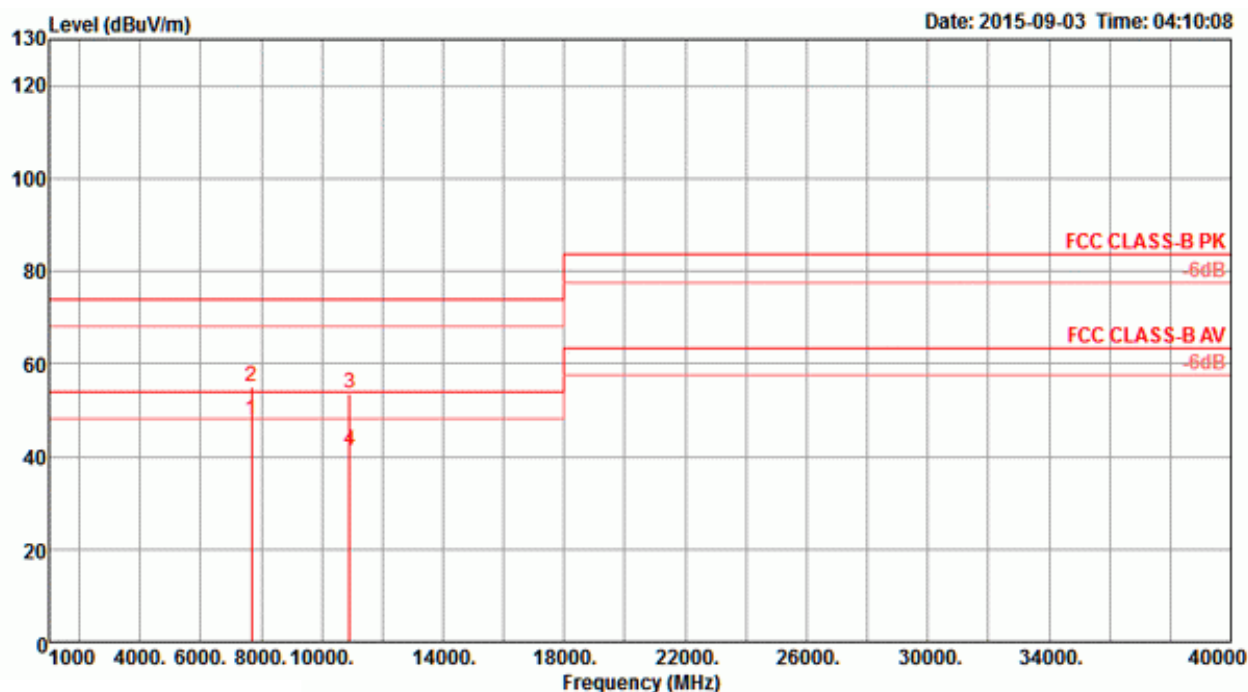
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6973.49  | 52.26  | 68.20  | -15.94 | 45.24 | 5.00         | 36.72  | 34.70 | 82    | 162 Peak    | VERTICAL  |
| 2 | 15667.20 | 58.46  | 74.00  | -15.54 | 47.18 | 7.60         | 38.41  | 34.73 | 82    | 154 Peak    | VERTICAL  |
| 3 | 15667.30 | 45.41  | 54.00  | -8.59  | 34.13 | 7.60         | 38.41  | 34.73 | 82    | 154 Average | VERTICAL  |

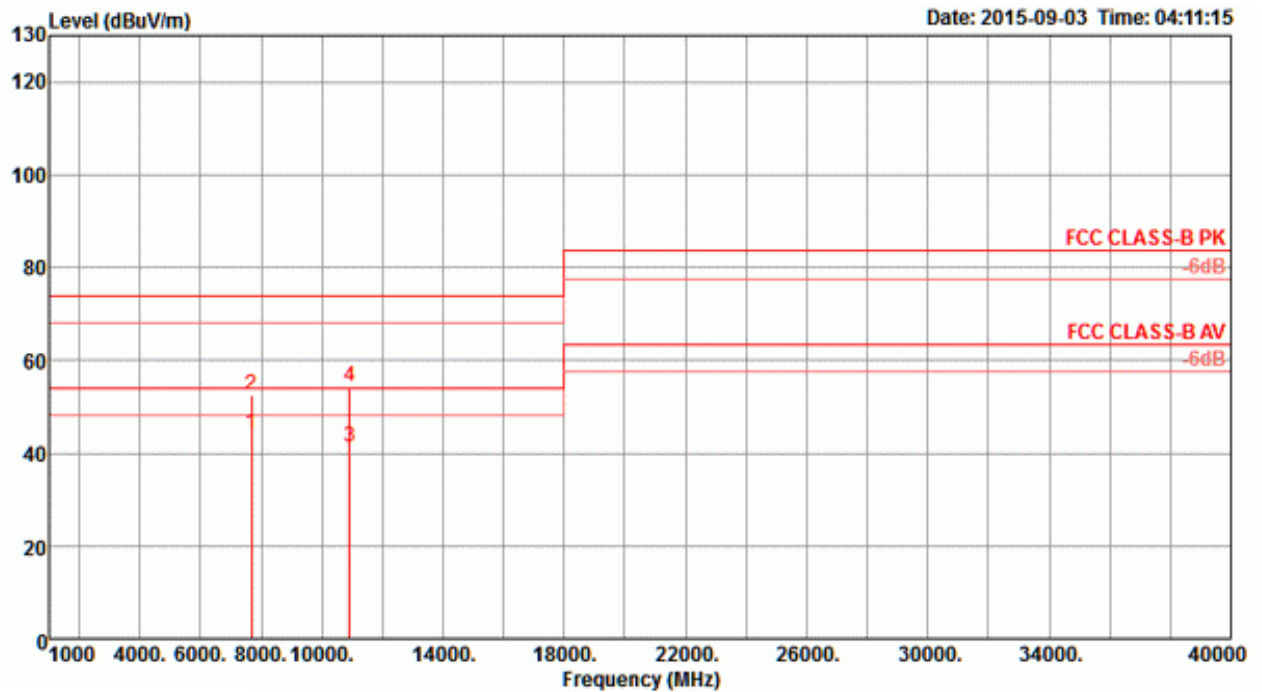
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT40 CH 151 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7673.31  | 47.89  | 54.00  | -6.11  | 40.09 | 5.23  | 37.43   | 34.86  | 338   | 148   | Average | HORIZONTAL |
| 2 | 7673.83  | 54.92  | 74.00  | -19.08 | 47.12 | 5.23  | 37.43   | 34.86  | 338   | 148   | Peak    | HORIZONTAL |
| 3 | 10911.00 | 53.61  | 74.00  | -20.39 | 43.24 | 6.36  | 38.72   | 34.71  | 347   | 158   | Peak    | HORIZONTAL |
| 4 | 10923.30 | 41.22  | 54.00  | -12.78 | 30.85 | 6.37  | 38.71   | 34.71  | 347   | 158   | Average | HORIZONTAL |

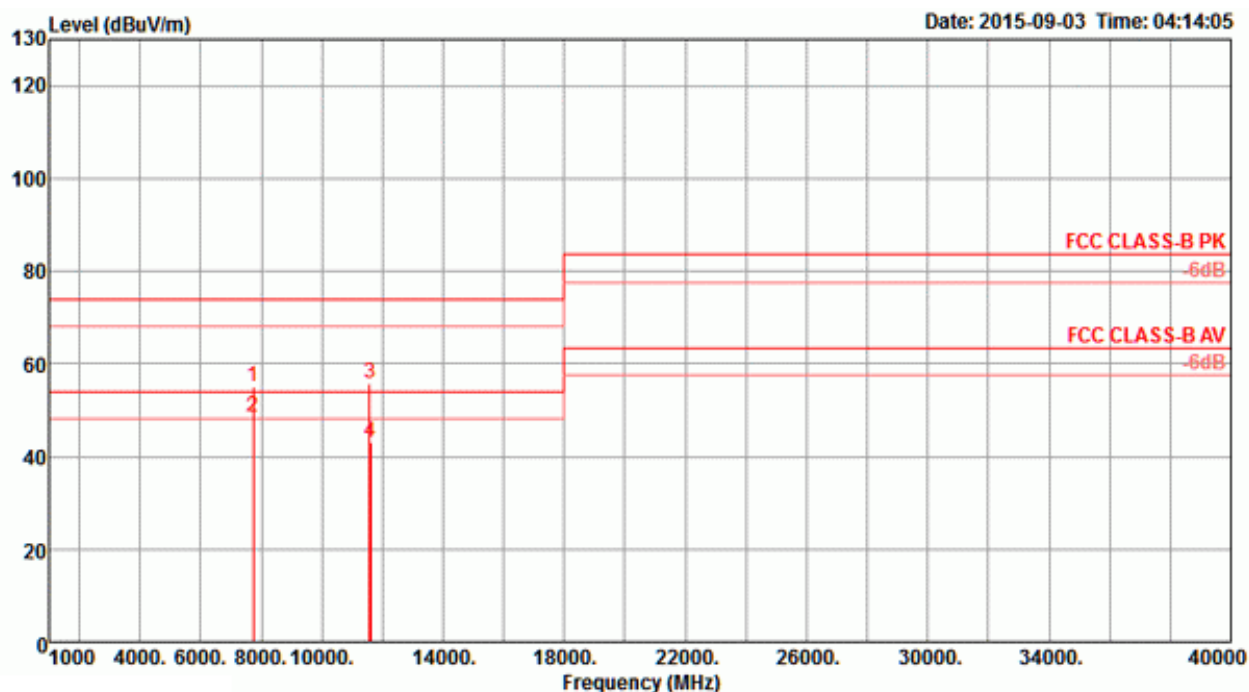
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7673.48  | 44.09  | 54.00  | -9.91  | 36.29 | 5.23         | 37.43  | 34.86 | 341   | 169 Average | VERTICAL  |
| 2 | 7673.71  | 52.57  | 74.00  | -21.43 | 44.77 | 5.23         | 37.43  | 34.86 | 341   | 169 Peak    | VERTICAL  |
| 3 | 10910.70 | 41.40  | 54.00  | -12.60 | 31.03 | 6.36         | 38.72  | 34.71 | 314   | 147 Average | VERTICAL  |
| 4 | 10913.70 | 54.38  | 74.00  | -19.62 | 44.01 | 6.36         | 38.72  | 34.71 | 314   | 147 Peak    | VERTICAL  |

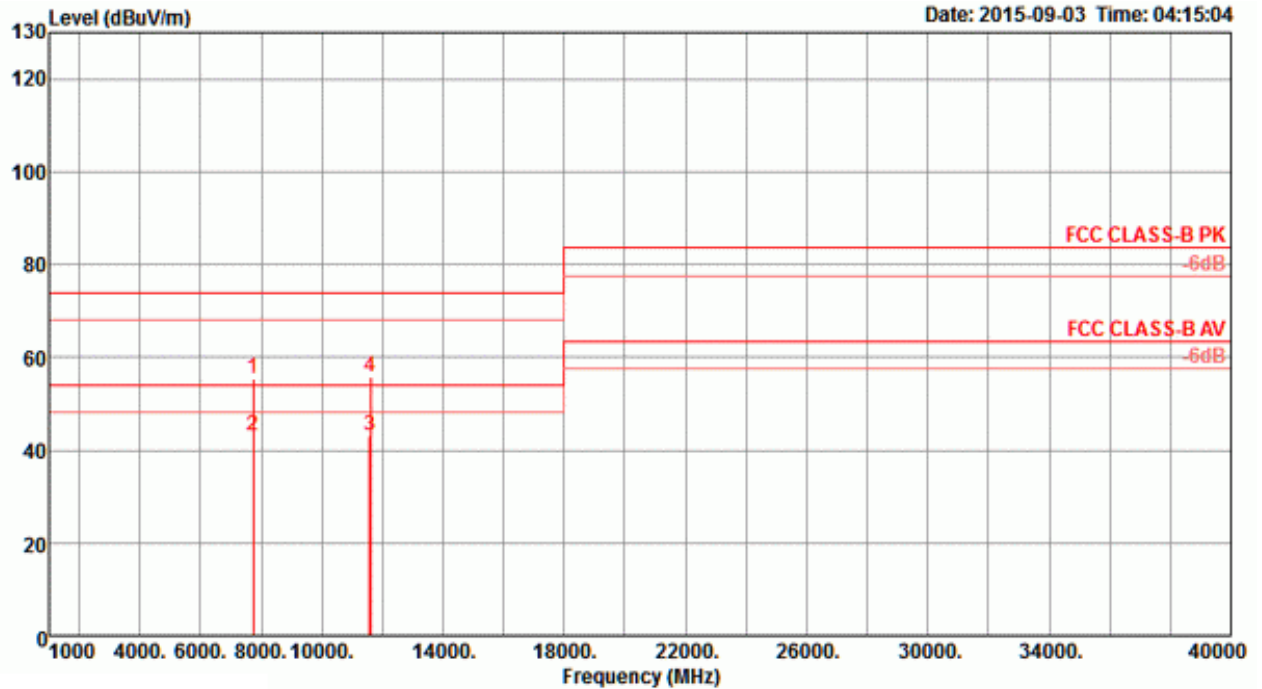
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT40 CH 159 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7726.69  | 55.07  | 74.00  | -18.93 | 47.28 | 5.26  | 37.41   | 34.88  | 291   | 146   | Peak    | HORIZONTAL |
| 2 | 7726.74  | 48.67  | 54.00  | -5.33  | 40.88 | 5.26  | 37.41   | 34.88  | 291   | 146   | Average | HORIZONTAL |
| 3 | 11577.80 | 55.63  | 74.00  | -18.37 | 45.02 | 6.55  | 38.71   | 34.65  | 264   | 160   | Peak    | HORIZONTAL |
| 4 | 11594.90 | 43.01  | 54.00  | -10.99 | 32.39 | 6.55  | 38.72   | 34.65  | 264   | 160   | Average | HORIZONTAL |

### Vertical

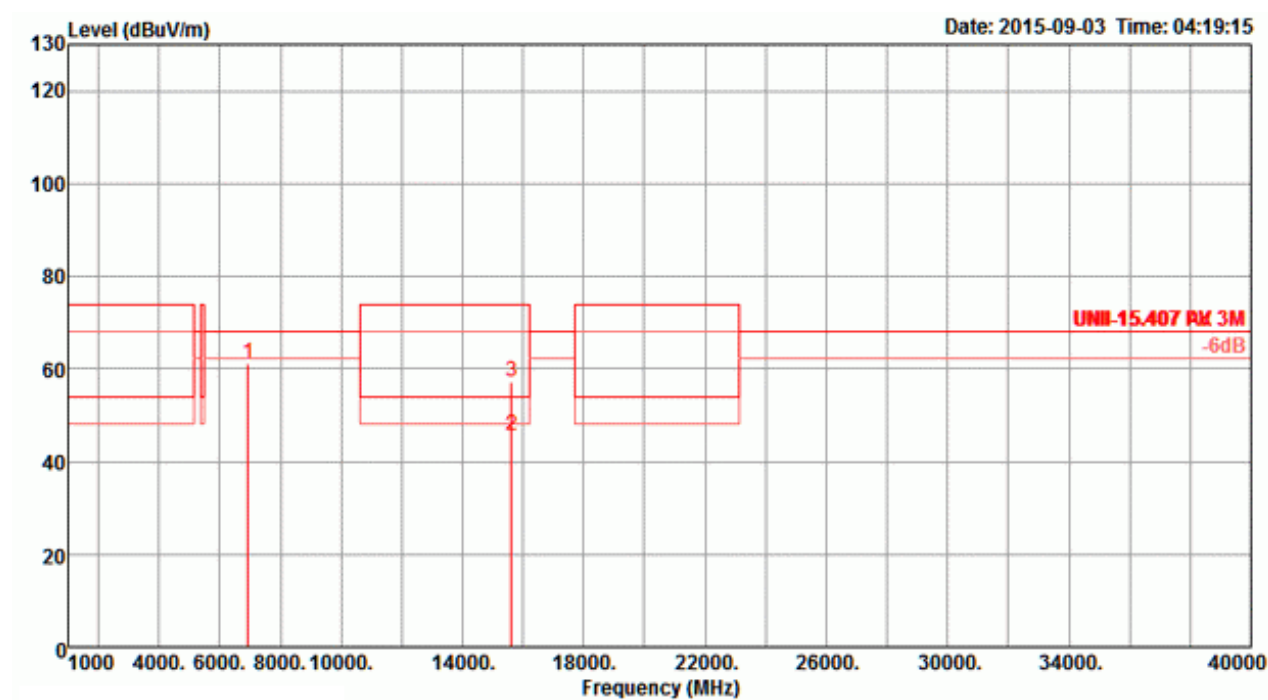


|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7724.43  | 55.52  | 74.00  | -18.48 | 47.73 | 5.26         | 37.41  | 34.88 | 128   | 166 Peak    | VERTICAL  |
| 2 | 7726.68  | 43.09  | 54.00  | -10.91 | 35.30 | 5.26         | 37.41  | 34.88 | 128   | 166 Average | VERTICAL  |
| 3 | 11592.50 | 43.15  | 54.00  | -10.85 | 32.53 | 6.55         | 38.72  | 34.65 | 230   | 150 Average | VERTICAL  |
| 4 | 11597.00 | 55.78  | 74.00  | -18.22 | 45.17 | 6.55         | 38.72  | 34.66 | 230   | 150 Peak    | VERTICAL  |



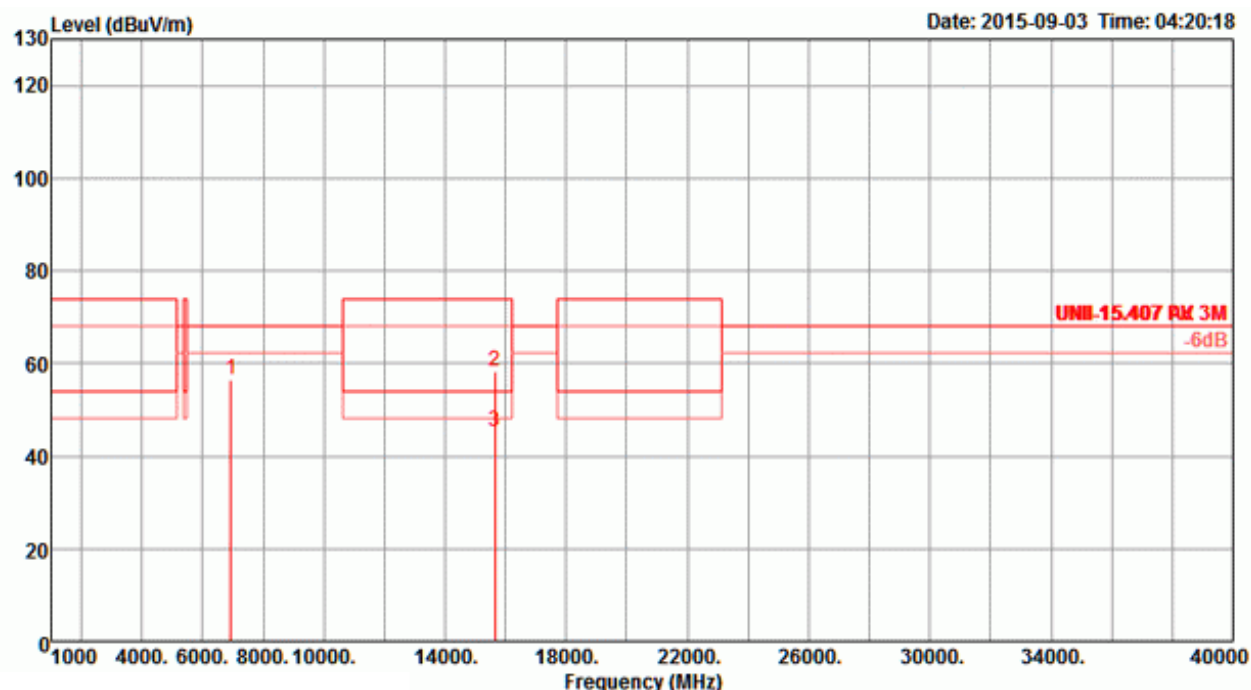
|               |          |                |                                                                                |
|---------------|----------|----------------|--------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                            |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT80 CH 42 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 6946.61  | 61.18  | 68.20  | -7.02  | 54.19 | 4.99         | 36.69  | 34.69 | 306   | 189 Peak    | HORIZONTAL |
| 2 | 15606.90 | 45.47  | 54.00  | -8.53  | 34.29 | 7.58         | 38.29  | 34.69 | 243   | 171 Average | HORIZONTAL |
| 3 | 15615.80 | 57.18  | 74.00  | -16.82 | 45.96 | 7.59         | 38.32  | 34.69 | 243   | 171 Peak    | HORIZONTAL |

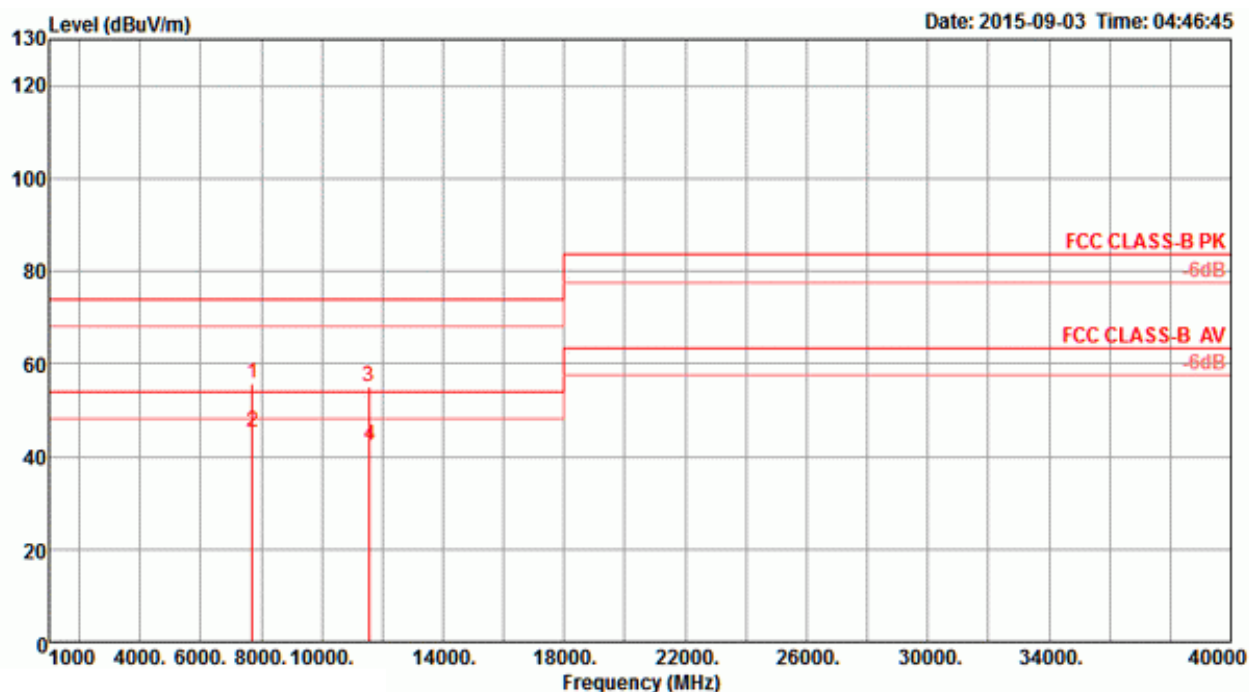
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 6946.54  | 56.45  | 68.20  | -11.75 | 49.46 | 4.99         | 36.69  | 34.69 | 321   | 173 Peak    | VERTICAL  |
| 2 | 15632.40 | 58.27  | 74.00  | -15.73 | 47.04 | 7.59         | 38.35  | 34.71 | 298   | 169 Peak    | VERTICAL  |
| 3 | 15643.00 | 45.37  | 54.00  | -8.63  | 34.14 | 7.59         | 38.35  | 34.71 | 298   | 169 Average | VERTICAL  |

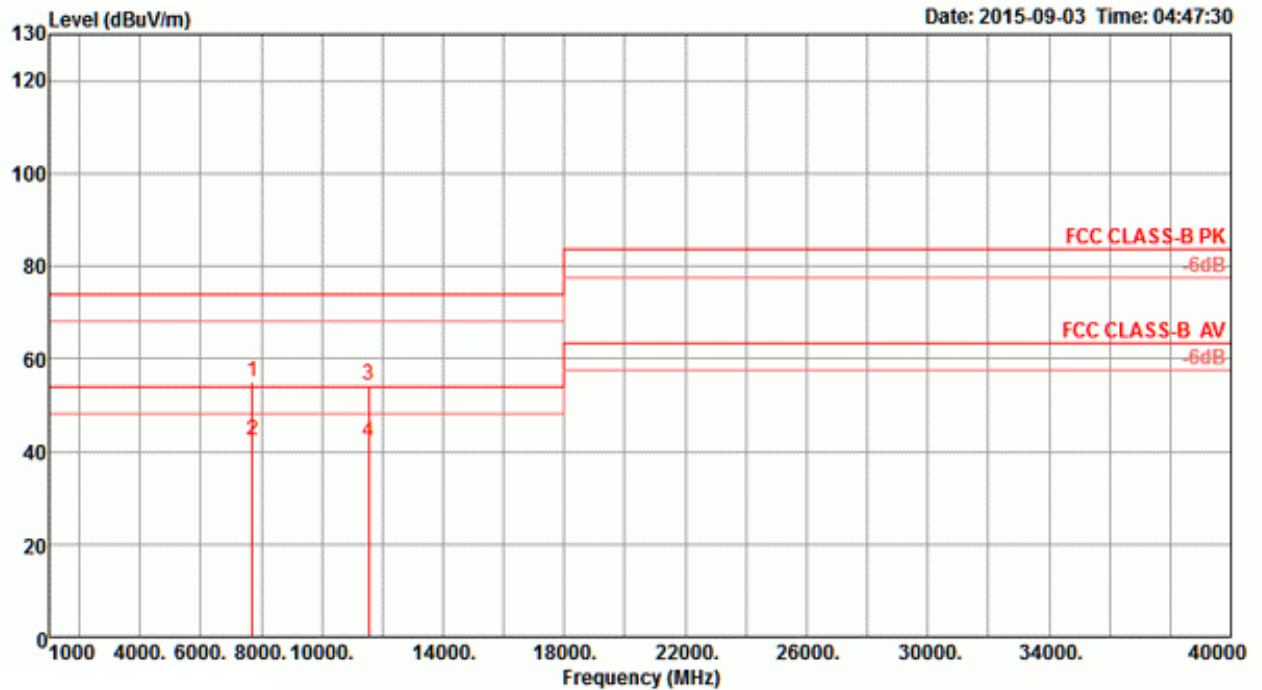
|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss4 VHT80 CH 155 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 7698.07  | 55.91  | 74.00  | -18.09 | 48.12 | 5.24  | 37.42   | 34.87  | 176   | 169   | Peak    | HORIZONTAL |
| 2 | 7699.26  | 45.32  | 54.00  | -8.68  | 37.53 | 5.24  | 37.42   | 34.87  | 176   | 169   | Average | HORIZONTAL |
| 3 | 11560.90 | 55.13  | 74.00  | -18.87 | 44.51 | 6.55  | 38.71   | 34.64  | 319   | 141   | Peak    | HORIZONTAL |
| 4 | 11571.60 | 42.51  | 54.00  | -11.49 | 31.90 | 6.55  | 38.71   | 34.65  | 319   | 141   | Average | HORIZONTAL |

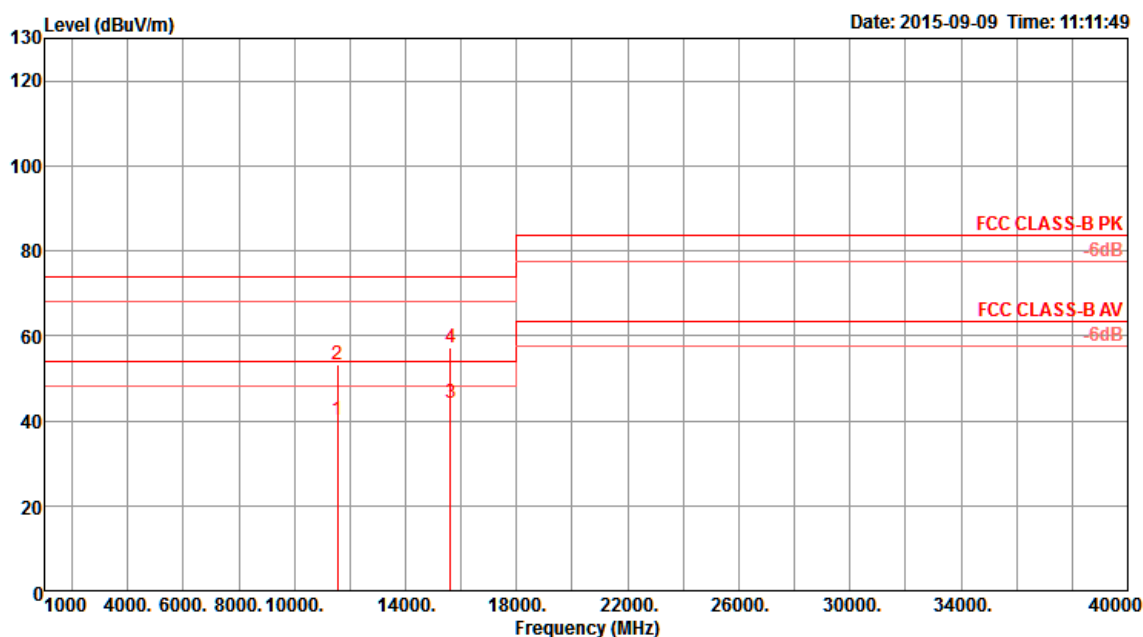
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 7699.06  | 54.91  | 74.00  | -19.09 | 47.12 | 5.24         | 37.42  | 34.87 | 208   | 140 Peak    | VERTICAL  |
| 2 | 7699.53  | 42.42  | 54.00  | -11.58 | 34.63 | 5.24         | 37.42  | 34.87 | 208   | 140 Average | VERTICAL  |
| 3 | 11549.60 | 54.49  | 74.00  | -19.51 | 43.87 | 6.55         | 38.71  | 34.64 | 265   | 168 Peak    | VERTICAL  |
| 4 | 11564.10 | 42.15  | 54.00  | -11.85 | 31.53 | 6.55         | 38.71  | 34.64 | 265   | 168 Average | VERTICAL  |

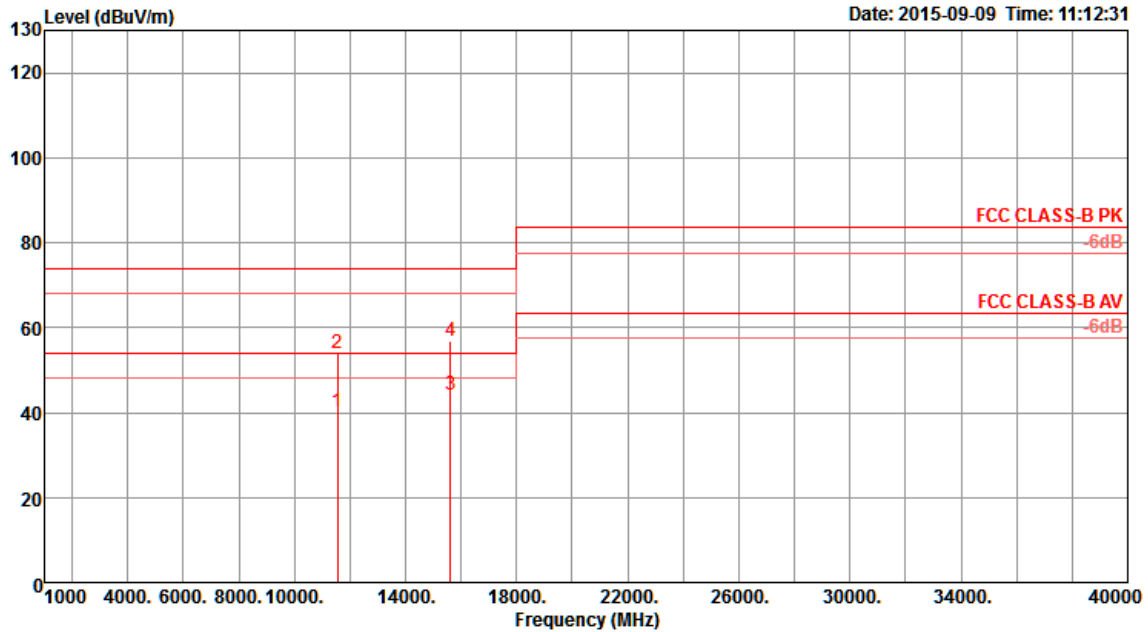
|               |          |                |                                                                                                   |
|---------------|----------|----------------|---------------------------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                                               |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80+80<br>Type 1 / CH 42+155 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 11548.50 | 40.22  | 54.00  | -13.78 | 29.61 | 6.54         | 38.71  | 34.64 | 206   | 151 Average | HORIZONTAL |
| 2 | 11552.15 | 53.41  | 74.00  | -20.59 | 42.79 | 6.55         | 38.71  | 34.64 | 206   | 151 Peak    | HORIZONTAL |
| 3 | 15627.74 | 44.04  | 54.00  | -9.96  | 32.84 | 7.59         | 38.32  | 34.71 | 234   | 149 Average | HORIZONTAL |
| 4 | 15628.30 | 57.04  | 74.00  | -16.96 | 45.84 | 7.59         | 38.32  | 34.71 | 234   | 149 Peak    | HORIZONTAL |

# Vertical

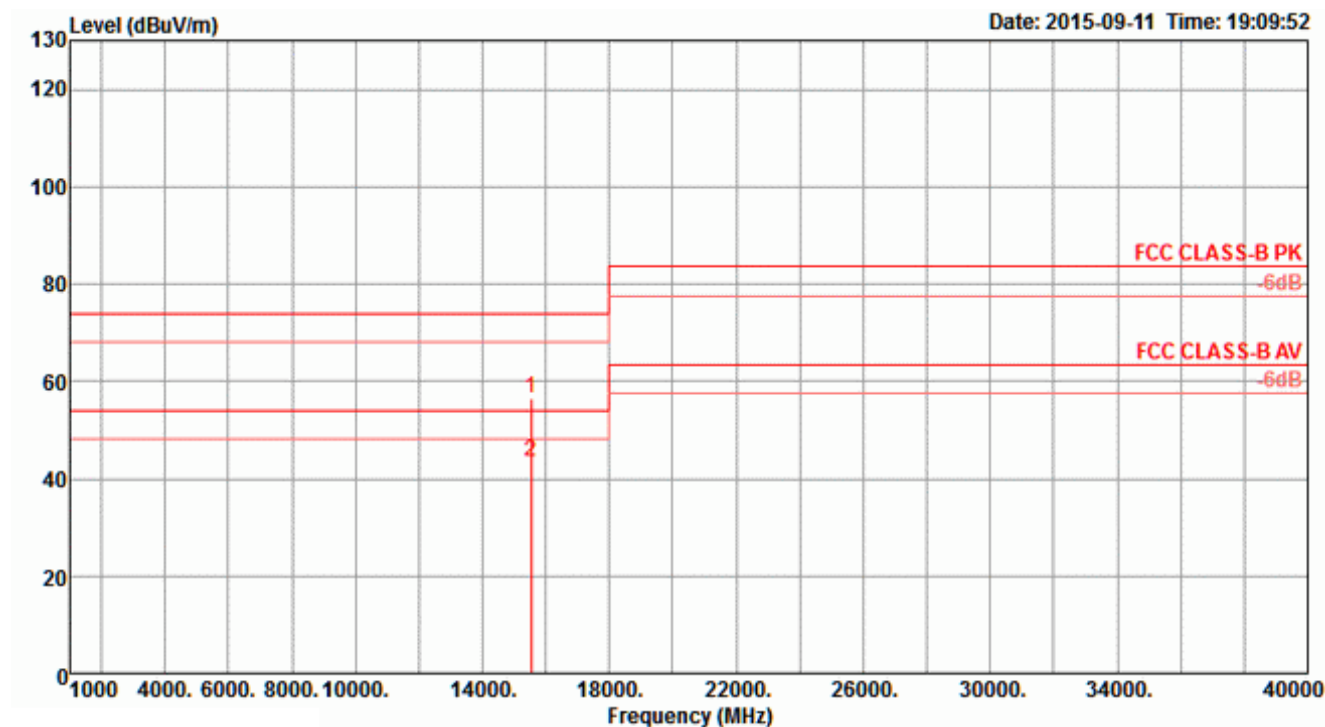


|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |           |
| 1 | 11548.74 | 40.20  | 54.00  | -13.80 | 29.58 | 6.55         | 38.71  | 34.64 | 71    | 183 Average | VERTICAL  |
| 2 | 11549.26 | 54.11  | 74.00  | -19.89 | 43.49 | 6.55         | 38.71  | 34.64 | 71    | 183 Peak    | VERTICAL  |
| 3 | 15629.52 | 44.01  | 54.00  | -9.99  | 32.78 | 7.59         | 38.35  | 34.71 | 161   | 131 Average | VERTICAL  |
| 4 | 15631.48 | 56.89  | 74.00  | -17.11 | 45.66 | 7.59         | 38.35  | 34.71 | 161   | 131 Peak    | VERTICAL  |

## &lt;For Radio 2 Beamforming Mode&gt;

|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 36 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

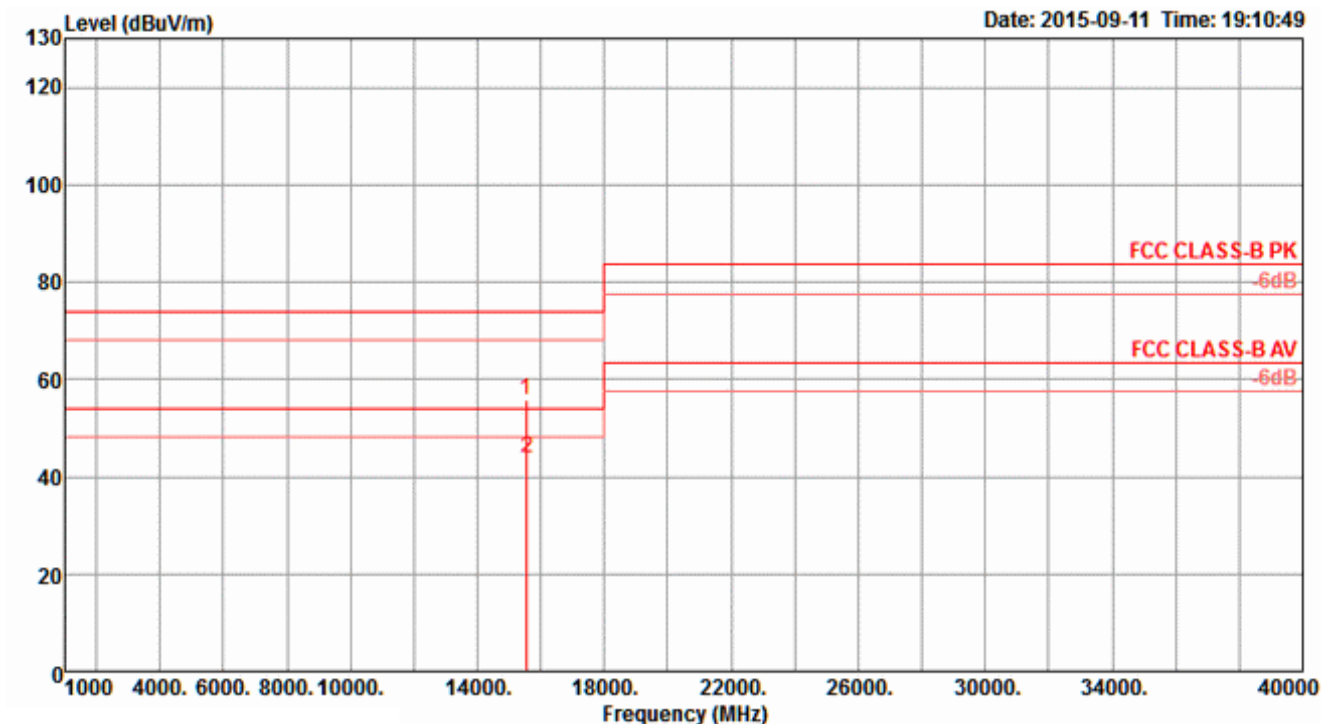
## Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 15542.70 | 56.55  | 74.00  | -17.45 | 45.45 | 7.56         | 38.16  | 34.62 | 210   | 150    | Peak      |
| 2 | 15547.80 | 43.59  | 54.00  | -10.41 | 32.48 | 7.56         | 38.19  | 34.64 | 210   | 150    | Average   |



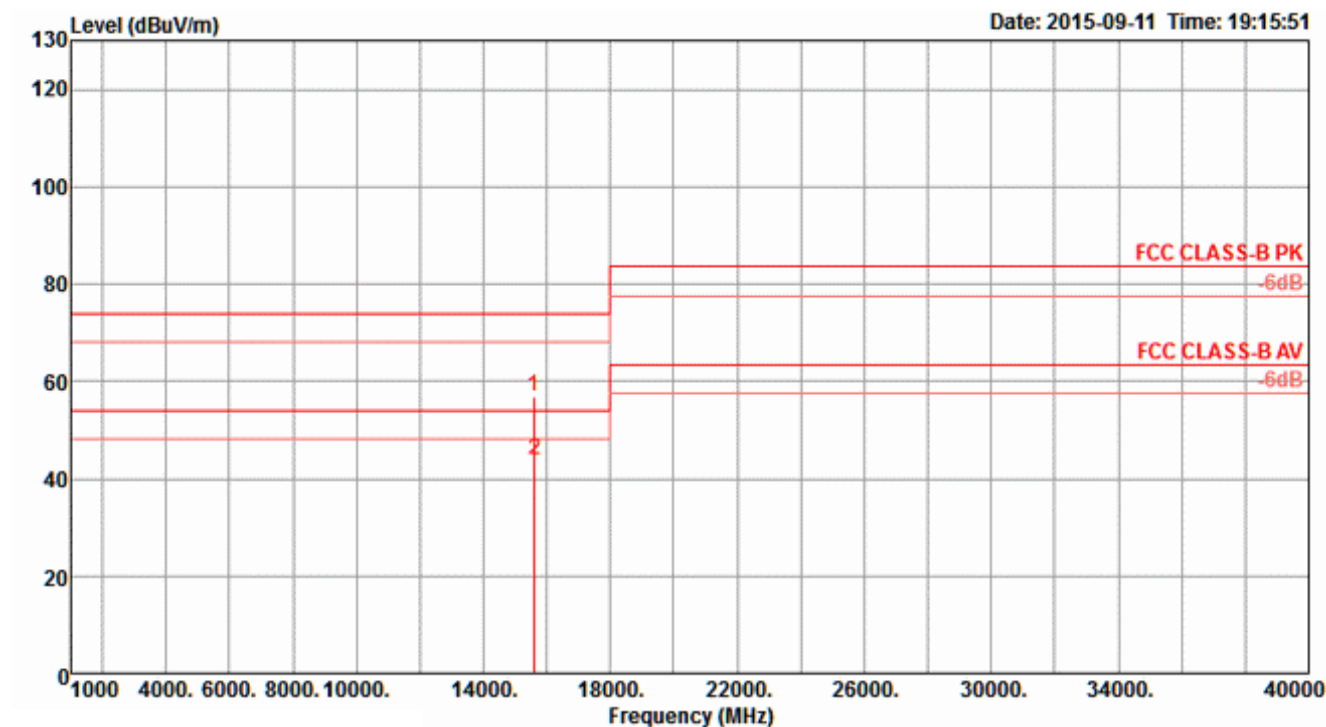
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 15526.60 | 55.76  | 74.00  | -18.24 | 44.66 | 7.56  | 38.16   | 34.62  | 136   | 150   | Peak    | VERTICAL  |
| 2 | 15557.70 | 43.84  | 54.00  | -10.16 | 32.73 | 7.56  | 38.19   | 34.64  | 136   | 150   | Average | VERTICAL  |

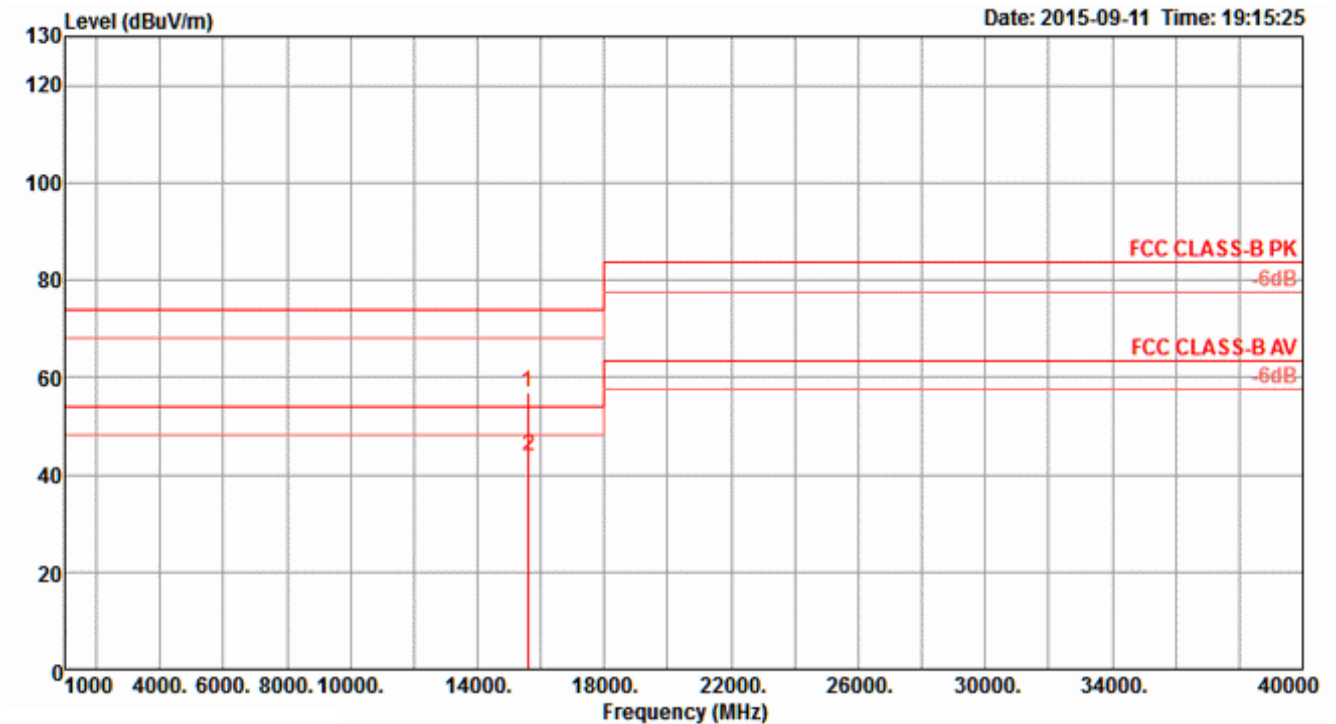
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 40 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 15599.84 | 57.03  | 74.00  | -16.97 | 45.85 | 7.58  | 38.29   | 34.69  | 251   | 150   | Peak    | HORIZONTAL |
| 2 | 15607.70 | 43.96  | 54.00  | -10.04 | 32.78 | 7.58  | 38.29   | 34.69  | 251   | 150   | Average | HORIZONTAL |

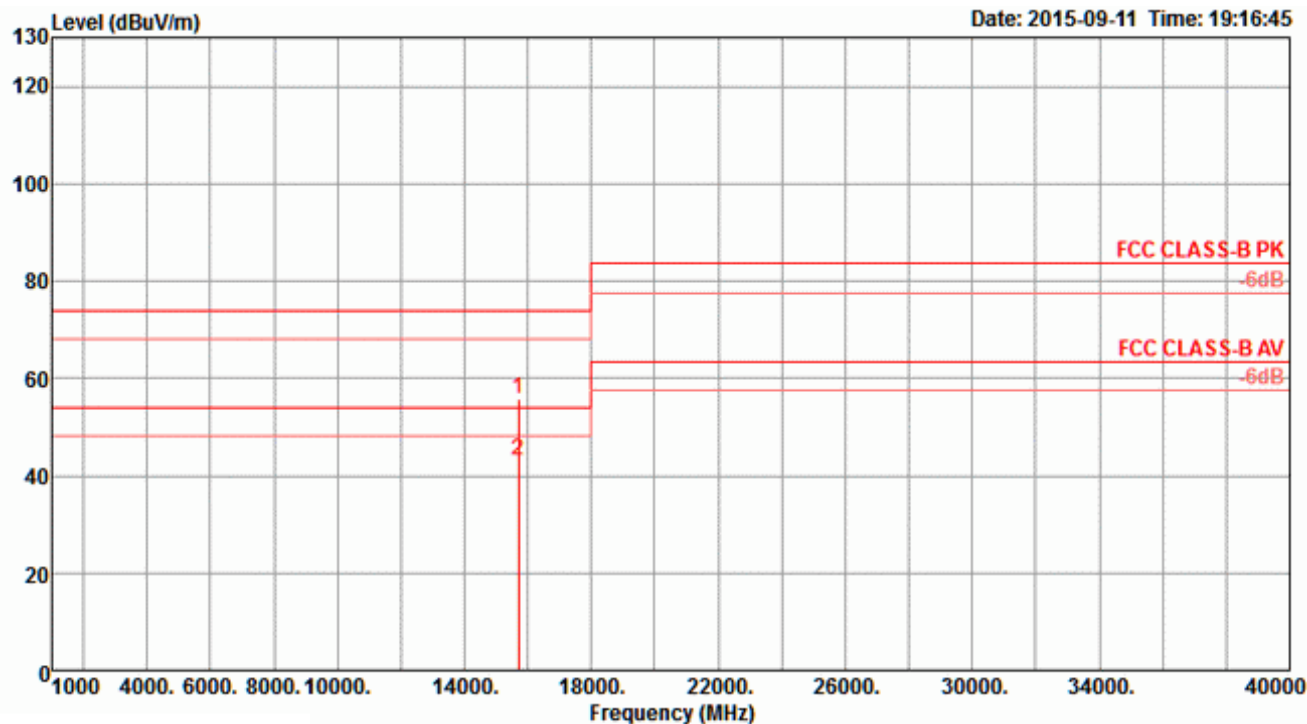
### Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |           |
| 1 | 15604.20 | 56.79  | 74.00  | -17.21 | 45.61 | 7.58  | 38.29   | 34.69  | 196   | 150   | Peak    | VERTICAL  |
| 2 | 15605.10 | 43.89  | 54.00  | -10.11 | 32.71 | 7.58  | 38.29   | 34.69  | 196   | 150   | Average | VERTICAL  |

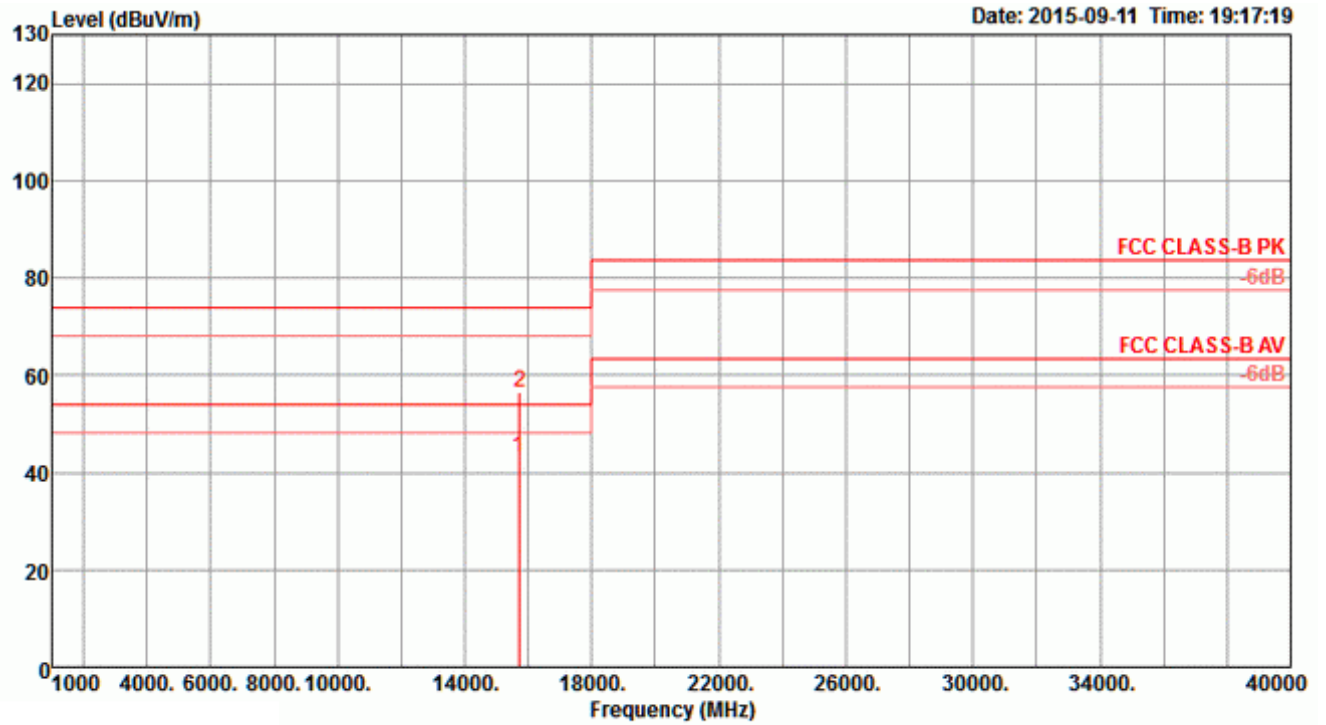
|               |          |                |                                                                             |
|---------------|----------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                         |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 48 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark  | Pol/Phase  |
|---|----------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB/m    | dB     | deg   | cm    |         |            |
| 1 | 15713.00 | 55.60  | 74.00  | -18.40 | 44.29 | 7.62  | 38.47   | 34.78  | 149   | 150   | Peak    | HORIZONTAL |
| 2 | 15714.40 | 43.14  | 54.00  | -10.86 | 31.80 | 7.62  | 38.50   | 34.78  | 149   | 150   | Average | HORIZONTAL |

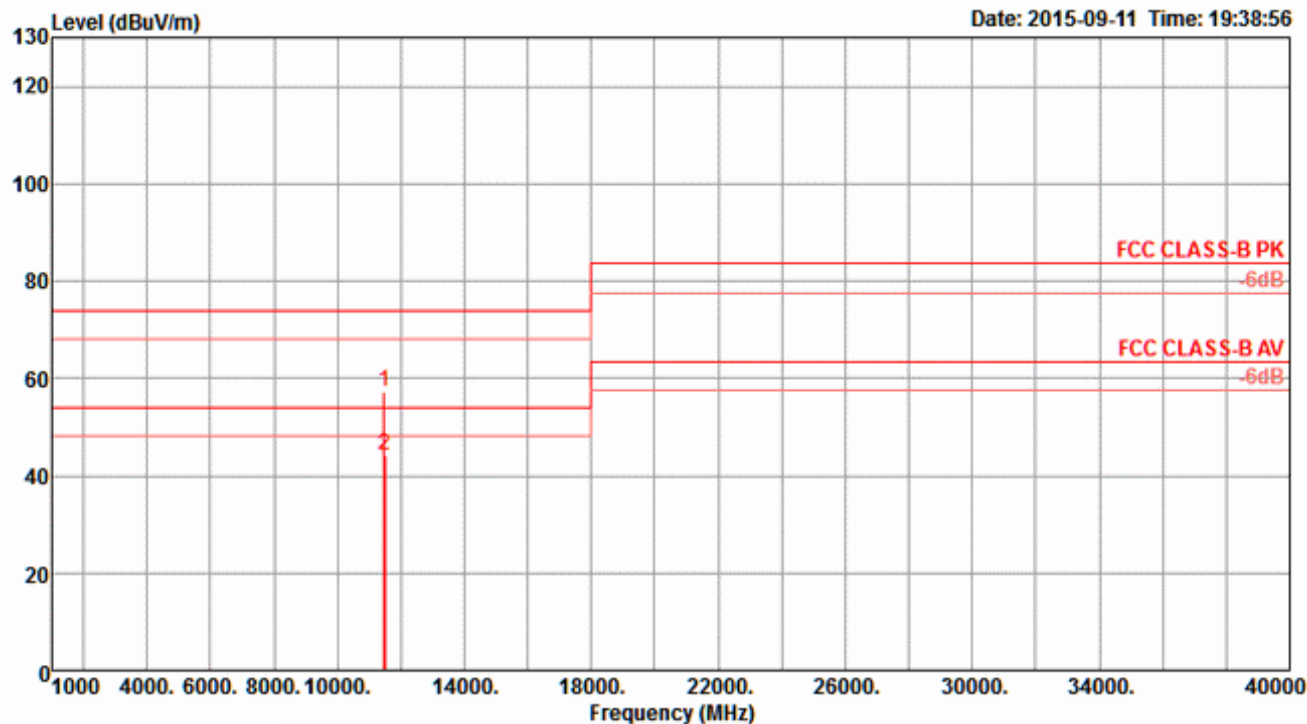
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 15711.72 | 43.12  | 54.00  | -10.88 | 31.81 | 7.62         | 38.47  | 34.78 | 243   | 150    | Average   |
| 2 | 15726.56 | 56.35  | 74.00  | -17.65 | 45.03 | 7.62         | 38.50  | 34.80 | 243   | 150    | Peak      |

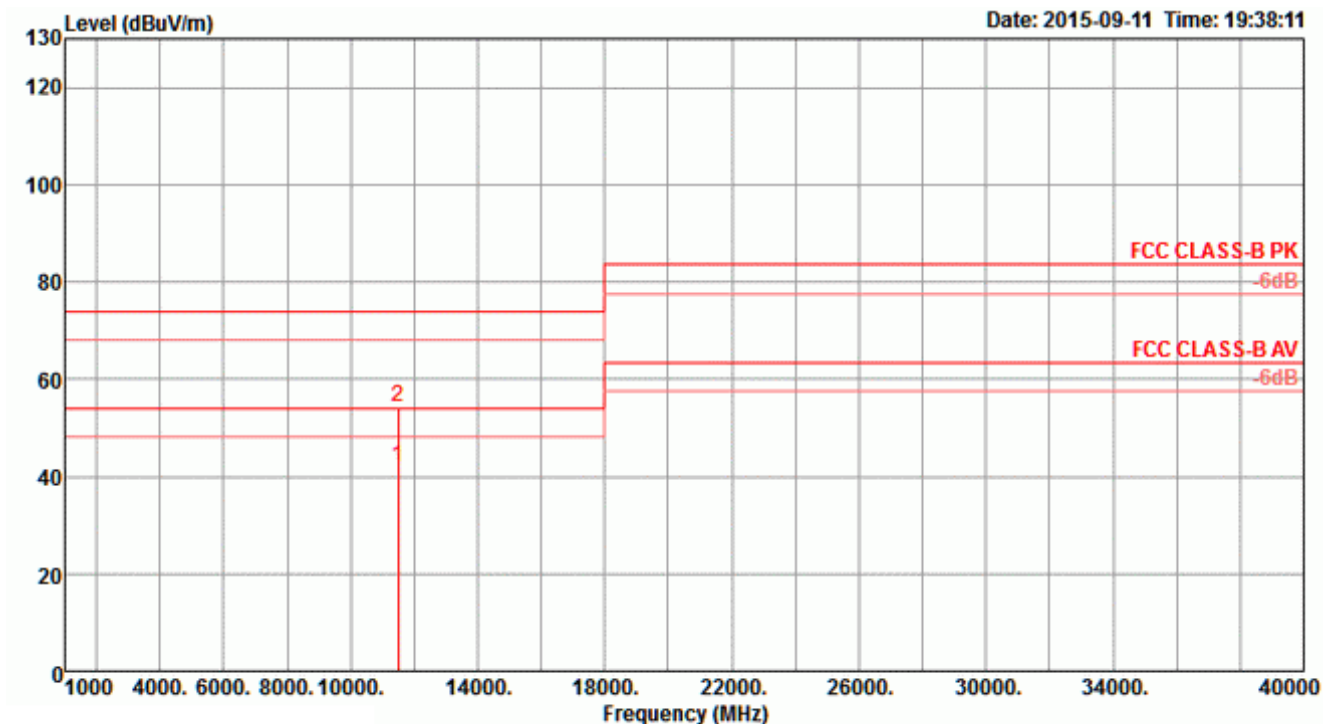
|               |          |                |                                                                                 |
|---------------|----------|----------------|---------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                             |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 149 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 11479.50 | 57.24  | 74.00  | -16.76 | 46.63 | 6.53         | 38.70  | 34.62 | 169   | 150    | Peak      |
| 2 | 11485.50 | 44.32  | 54.00  | -9.68  | 33.71 | 6.53         | 38.70  | 34.62 | 169   | 150    | Average   |

# Vertical

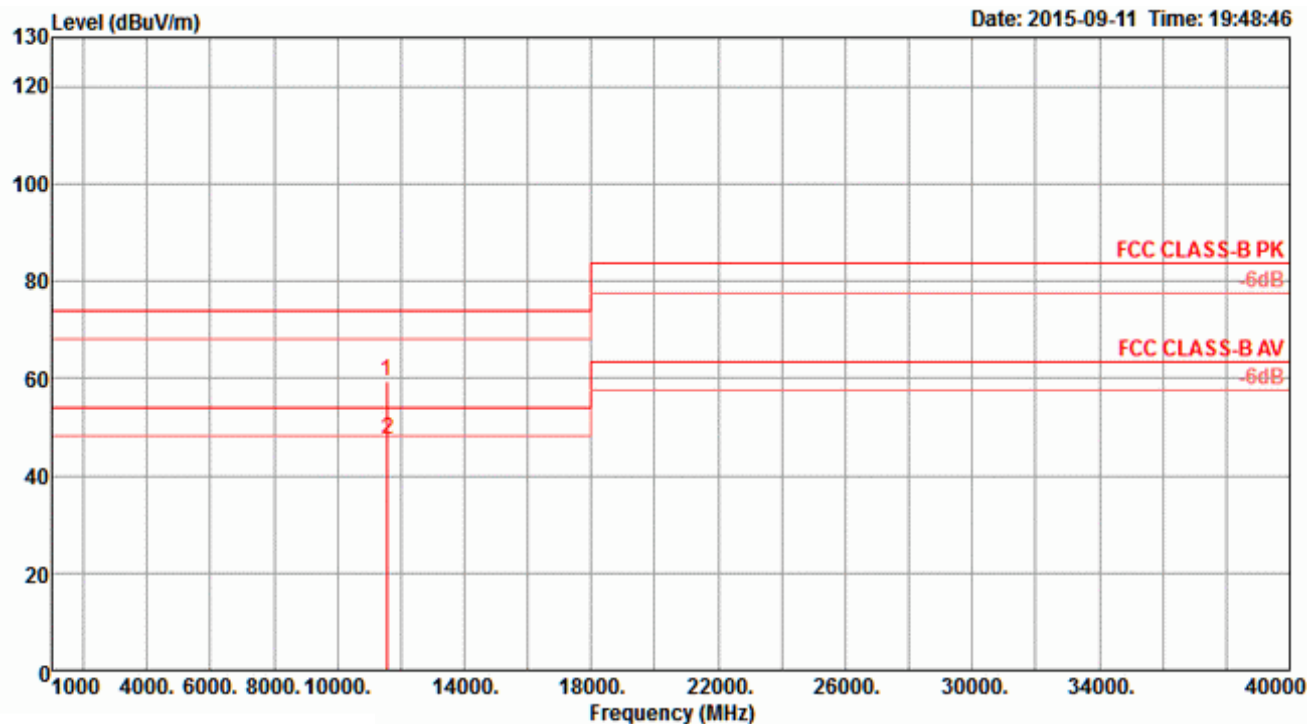


|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 11484.20 | 42.13  | 54.00  | -11.87 | 31.52 | 6.53         | 38.70  | 34.62 | 148   | 150    | Average   |
| 2 | 11499.30 | 54.17  | 74.00  | -19.83 | 43.55 | 6.54         | 38.70  | 34.62 | 148   | 150    | Peak      |



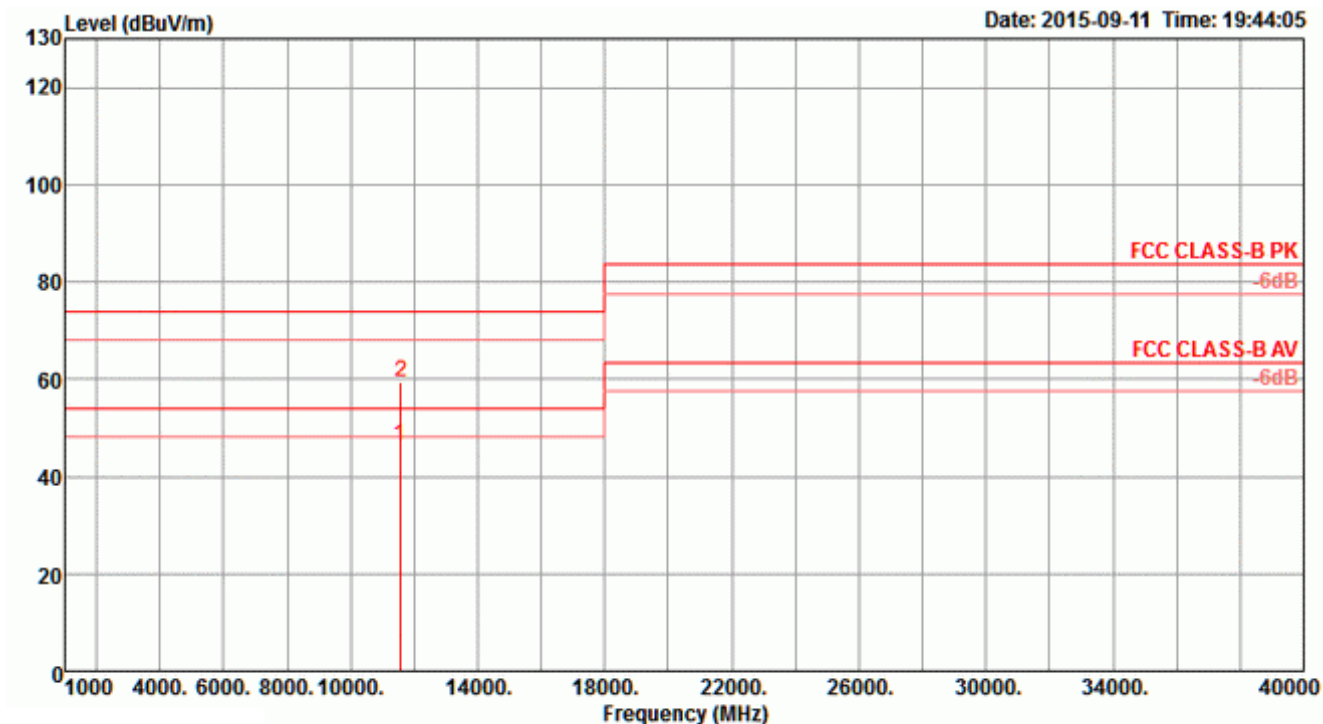
|               |          |                |                                                                                 |
|---------------|----------|----------------|---------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                             |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 157 /<br>Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 11564.60 | 59.50  | 74.00  | -14.50 | 48.88 | 6.55         | 38.71  | 34.64 | 328   | 153    | Peak      |
| 2 | 11566.60 | 47.32  | 54.00  | -6.68  | 36.70 | 6.55         | 38.71  | 34.64 | 328   | 153    | Average   |

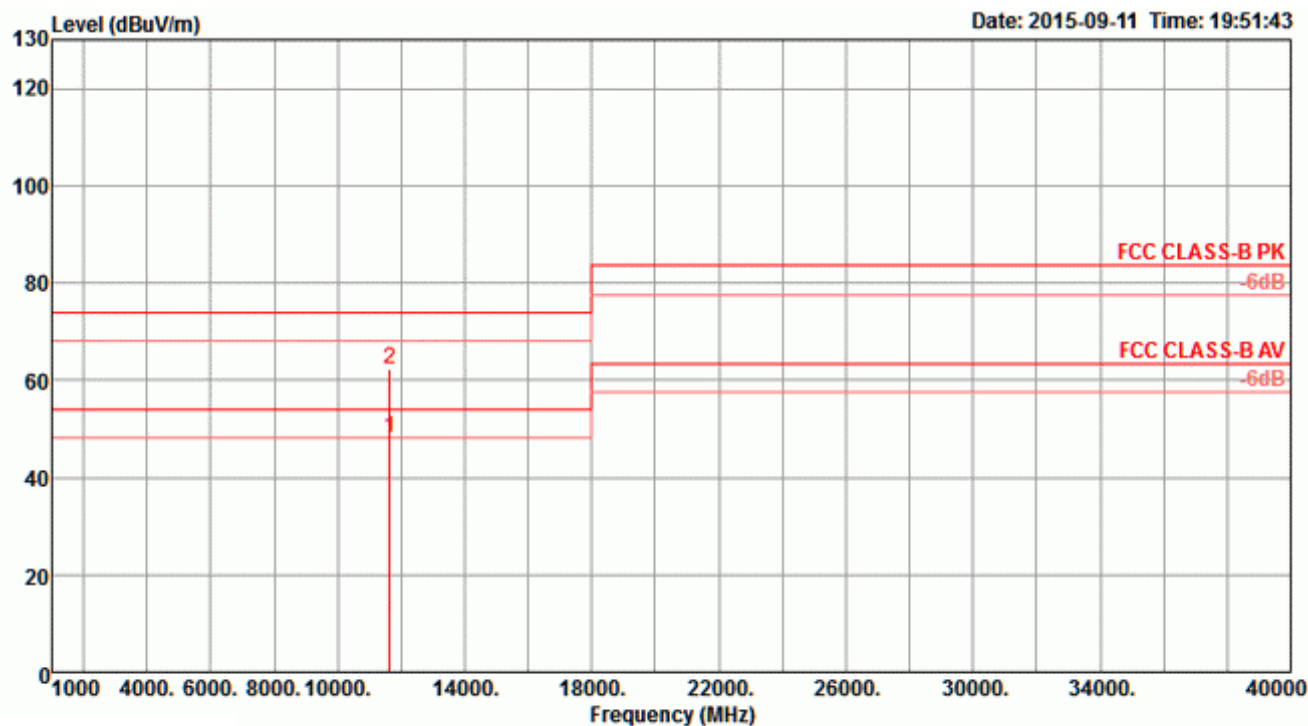
# Vertical



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm     |           |
| 1 | 11564.20 | 46.43  | 54.00  | -7.57  | 35.81 | 6.55         | 38.71  | 34.64 | 344   | 150    | Average   |
| 2 | 11566.60 | 59.42  | 74.00  | -14.58 | 48.80 | 6.55         | 38.71  | 34.64 | 344   | 150    | Peak      |

|               |          |                |                                                                              |
|---------------|----------|----------------|------------------------------------------------------------------------------|
| Temperature   | 26°C     | Humidity       | 57%                                                                          |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 165 / Chain 5 + Chain 6 + Chain 7 + Chain 8 |

### Horizontal



|   | Freq     | Level  | Limit  | Over   | Read  | CableAntenna | Preamp | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|----------|--------|--------|--------|-------|--------------|--------|-------|-------|-------------|------------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | deg   | cm          |            |
| 1 | 11645.80 | 48.31  | 54.00  | -5.69  | 37.69 | 6.56         | 38.73  | 34.67 | 332   | 153 Average | HORIZONTAL |
| 2 | 11646.20 | 62.30  | 74.00  | -11.70 | 51.68 | 6.56         | 38.73  | 34.67 | 332   | 153 Peak    | HORIZONTAL |