

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 122 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 17, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

#### Horizontal

|   | Freq     | Level  | Limit | Over   | Read  | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase      |
|---|----------|--------|-------|--------|-------|--------------|--------|--------|---------|-------|----------------|
|   | MHz      | dBuV/m | Line  | Limit  | Level | Loss         | Factor | Factor | Remark  | cm    | deg            |
| 1 | 11218.76 | 54.38  | 74.00 | -19.62 | 41.34 | 9.07         | 38.76  | 34.79  | Peak    | 225   | 305 HORIZONTAL |
| 2 | 11220.00 | 41.35  | 54.00 | -12.65 | 28.31 | 9.07         | 38.76  | 34.79  | Average | 225   | 305 HORIZONTAL |

#### Vertical

|   | Freq     | Level  | Limit | Over   | Read  | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|----------|--------|-------|--------|-------|--------------|--------|--------|---------|-------|--------------|
|   | MHz      | dBuV/m | Line  | Limit  | Level | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 11220.18 | 53.85  | 74.00 | -20.15 | 40.81 | 9.07         | 38.76  | 34.79  | Peak    | 237   | 310 VERTICAL |
| 2 | 11222.37 | 41.09  | 54.00 | -12.91 | 28.05 | 9.07         | 38.76  | 34.79  | Average | 237   | 310 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.

**Straddle Channel**

|                      |                                                                                                             |                       |                                                               |
|----------------------|-------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------|
| <b>Temperature</b>   | 25°C                                                                                                        | <b>Humidity</b>       | 55%                                                           |
| <b>Test Engineer</b> | Stim Sung                                                                                                   | <b>Configurations</b> | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| <b>Test Date</b>     | Oct. 20, 2015                                                                                               |                       |                                                               |
| <b>Test Mode</b>     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                       |                                                               |

**Horizontal**

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |            | A/Pos | T/Pos |         |
|---|----------|--------|--------|--------|-------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss  | Factor | Factor  | Pol/Phase  | cm    | deg   | Remark  |
| 1 | 11418.00 | 44.44  | 54.00  | -9.56  | 28.73 | 10.99 | 35.22  | 39.94   | HORIZONTAL | 224   | 246   | Average |
| 2 | 11418.00 | 54.68  | 74.00  | -19.32 | 38.97 | 10.99 | 35.22  | 39.94   | HORIZONTAL | 224   | 246   | Peak    |

**Vertical**

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |           | A/Pos | T/Pos |         |
|---|----------|--------|--------|--------|-------|-------|--------|---------|-----------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | Loss  | Factor | Factor  | Pol/Phase | cm    | deg   | Remark  |
| 1 | 11411.48 | 44.45  | 54.00  | -9.55  | 28.72 | 10.99 | 35.22  | 39.96   | VERTICAL  | 168   | 321   | Average |
| 2 | 11411.52 | 58.13  | 74.00  | -15.87 | 42.40 | 10.99 | 35.22  | 39.96   | VERTICAL  | 168   | 321   | Peak    |

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

### Horizontal

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |            | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase  | cm    | deg   |         |
| 1 | 11411.92 | 44.65  | 54.00  | -9.35  | 28.92 | 10.99 | 35.22  | 39.96   | HORIZONTAL | 199   | 171   | Average |
| 2 | 11416.72 | 57.63  | 74.00  | -16.37 | 41.90 | 10.99 | 35.22  | 39.96   | HORIZONTAL | 199   | 171   | Peak    |

### Vertical

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |           | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|-----------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase | cm    | deg   |         |
| 1 | 11401.96 | 44.46  | 54.00  | -9.54  | 28.74 | 10.98 | 35.22  | 39.96   | VERTICAL  | 155   | 7     | Average |
| 2 | 11415.40 | 57.41  | 74.00  | -16.59 | 41.68 | 10.99 | 35.22  | 39.96   | VERTICAL  | 155   | 7     | Peak    |

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

### Horizontal

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |            | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase  | cm    | deg   |         |
| 1 | 11417.52 | 44.31  | 54.00  | -9.69  | 28.60 | 10.99 | 35.22  | 39.94   | HORIZONTAL | 180   | 216   | Average |
| 2 | 11426.12 | 56.78  | 74.00  | -17.22 | 41.06 | 11.00 | 35.22  | 39.94   | HORIZONTAL | 180   | 216   | Peak    |

### Vertical

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |           | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|-----------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase | cm    | deg   |         |
| 1 | 11414.24 | 44.47  | 54.00  | -9.53  | 28.74 | 10.99 | 35.22  | 39.96   | VERTICAL  | 147   | 360   | Average |
| 2 | 11414.24 | 54.64  | 74.00  | -19.36 | 38.91 | 10.99 | 35.22  | 39.96   | VERTICAL  | 147   | 360   | Peak    |

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015 ~ Oct. 21, 2015                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

#### Horizontal

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |            | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase  | cm    | deg   |         |
| 1 | 11378.88 | 45.15  | 54.00  | -8.85  | 29.42 | 10.97 | 35.22  | 39.98   | HORIZONTAL | 171   | 257   | Average |
| 2 | 11386.12 | 58.86  | 74.00  | -15.14 | 43.15 | 10.97 | 35.22  | 39.96   | HORIZONTAL | 171   | 257   | Peak    |

#### Vertical

|   | Freq     | Level  | Limit  | Over   | Read  | Cable | Preamp | Antenna |           | A/Pos | T/Pos | Remark  |
|---|----------|--------|--------|--------|-------|-------|--------|---------|-----------|-------|-------|---------|
|   | MHz      | dBuV/m | dBuV/m | dB     | dBuV  | dB    | dB     | dB/m    | Pol/Phase | cm    | deg   |         |
| 1 | 11370.56 | 45.41  | 54.00  | -8.59  | 29.69 | 10.96 | 35.22  | 39.98   | VERTICAL  | 150   | 209   | Average |
| 2 | 11373.56 | 58.48  | 74.00  | -15.52 | 42.75 | 10.97 | 35.22  | 39.98   | VERTICAL  | 150   | 209   | Peak    |

#### 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.

## 4.7. Band Edge Emissions Measurement

### 4.7.1. Limit

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

For transmitters operating in the 5.470-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of  $-27$  dBm/MHz.

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                                |

### 4.7.2. 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                              | 100 MHz                                           |
| 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                             |

### 4.7.3. Test Procedures

1. The test procedure is the same as section 4.6.3.

### 4.7.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.6.4.

### 4.7.5. Test Deviation

There is no deviation with the original standard.

### 4.7.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 4.7.7. Test Result of Band Edge and Fundamental Emissions

|               |                                                          |                |                                                                      |
|---------------|----------------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                            |                |                                                                      |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                      |

##### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5135.96 | 44.98  | 54.00  | -9.02  | 39.85  | 6.12         | 34.01  | 35.00 | 101   | 132   | VERTICAL  |
| 2 | 5144.14 | 57.16  | 74.00  | -16.84 | 51.99  | 6.13         | 34.04  | 35.00 | 101   | 132   | VERTICAL  |
| 3 | 5257.12 | 123.80 |        |        | 118.40 | 6.20         | 34.20  | 35.00 | 101   | 132   | VERTICAL  |
| 4 | 5257.60 | 114.20 |        |        | 108.80 | 6.20         | 34.20  | 35.00 | 101   | 132   | VERTICAL  |
| 5 | 5353.75 | 46.29  | 54.00  | -7.71  | 40.67  | 6.26         | 34.36  | 35.00 | 101   | 132   | VERTICAL  |
| 6 | 5397.98 | 58.09  | 74.00  | -15.91 | 52.35  | 6.29         | 34.44  | 34.99 | 101   | 132   | VERTICAL  |

Item 3, 4 are the fundamental frequency at 5260 MHz.

##### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5298.40 | 123.40 |        |       | 117.89 | 6.23         | 34.28  | 35.00 | 102   | 133   | VERTICAL  |
| 2 | 5299.04 | 113.59 |        |       | 108.08 | 6.23         | 34.28  | 35.00 | 102   | 133   | VERTICAL  |
| 3 | 5351.28 | 50.68  | 54.00  | -3.32 | 45.06  | 6.26         | 34.36  | 35.00 | 102   | 133   | VERTICAL  |
| 4 | 5351.92 | 66.06  | 74.00  | -7.94 | 60.44  | 6.26         | 34.36  | 35.00 | 102   | 133   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5300 MHz.

##### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5318.40 | 121.46 |        |       | 115.91 | 6.24         | 34.31  | 35.00 | 100   | 133   | VERTICAL  |
| 2 | 5319.04 | 111.73 |        |       | 106.18 | 6.24         | 34.31  | 35.00 | 100   | 133   | VERTICAL  |
| 3 | 5351.41 | 52.54  | 54.00  | -1.46 | 46.92  | 6.26         | 34.36  | 35.00 | 100   | 133   | VERTICAL  |
| 4 | 5352.69 | 66.87  | 74.00  | -7.13 | 61.25  | 6.26         | 34.36  | 35.00 | 100   | 133   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                          |                |                                                                         |
|---------------|----------------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                         |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |           |
| 1 | 5458.60 | 66.42  | 74.00         | -7.58         | 60.56         | 6.33                        | 34.52            | 34.99 Peak    | 197   | 208   | VERTICAL  |
| 2 | 5459.60 | 51.81  | 54.00         | -2.19         | 45.95         | 6.33                        | 34.52            | 34.99 Average | 197   | 208   | VERTICAL  |
| 3 | 5468.80 | 66.89  | 68.20         | -1.31         | 60.99         | 6.34                        | 34.55            | 34.99 Peak    | 197   | 208   | VERTICAL  |
| 4 | 5500.80 | 109.60 |               |               | 103.64        | 6.36                        | 34.60            | 35.00 Average | 197   | 208   | VERTICAL  |
| 5 | 5500.80 | 121.66 |               |               | 115.70        | 6.36                        | 34.60            | 35.00 Peak    | 197   | 208   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |           |
| 1 | 5438.40 | 58.55  | 74.00         | -15.45        | 52.73         | 6.32                        | 34.49            | 34.99 Peak    | 200   | 215   | VERTICAL  |
| 2 | 5440.00 | 46.40  | 54.00         | -7.60         | 40.58         | 6.32                        | 34.49            | 34.99 Average | 200   | 215   | VERTICAL  |
| 3 | 5470.00 | 57.99  | 68.20         | -10.21        | 52.09         | 6.34                        | 34.55            | 34.99 Peak    | 200   | 215   | VERTICAL  |
| 4 | 5580.80 | 112.45 |               |               | 106.46        | 6.39                        | 34.61            | 35.01 Average | 200   | 215   | VERTICAL  |
| 5 | 5580.80 | 123.57 |               |               | 117.58        | 6.39                        | 34.61            | 35.01 Peak    | 200   | 215   | VERTICAL  |
| 6 | 5726.40 | 59.33  | 68.20         | -8.87         | 53.27         | 6.45                        | 34.64            | 35.03 Peak    | 200   | 215   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |           |
| 1 | 5698.20 | 121.21 |               |               | 115.17        | 6.43                        | 34.64            | 35.03 Peak    | 201   | 217   | VERTICAL  |
| 2 | 5699.20 | 109.80 |               |               | 103.76        | 6.43                        | 34.64            | 35.03 Average | 201   | 217   | VERTICAL  |
| 3 | 5728.80 | 67.00  | 68.20         | -1.20         | 60.94         | 6.45                        | 34.64            | 35.03 Peak    | 201   | 217   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.



|               |                                                          |                |                                                                                          |
|---------------|----------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                            |                |                                                                                          |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                                          |

#### Channel 52

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5127.40 | 59.73  | 74.00 | -14.27 | 54.60  | 6.12         | 34.01  | 35.00  | Peak    | 200   | 136 VERTICAL |
| 2 | 5150.00 | 45.73  | 54.00 | -8.27  | 40.56  | 6.13         | 34.04  | 35.00  | Average | 200   | 136 VERTICAL |
| 3 | 5255.80 | 125.72 |       |        | 120.32 | 6.20         | 34.20  | 35.00  | Peak    | 200   | 136 VERTICAL |
| 4 | 5256.40 | 114.90 |       |        | 109.50 | 6.20         | 34.20  | 35.00  | Average | 200   | 136 VERTICAL |
| 5 | 5354.20 | 47.10  | 54.00 | -6.90  | 41.48  | 6.26         | 34.36  | 35.00  | Average | 200   | 136 VERTICAL |
| 6 | 5359.00 | 59.01  | 74.00 | -14.99 | 53.39  | 6.26         | 34.36  | 35.00  | Peak    | 200   | 136 VERTICAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

#### Channel 60

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5296.40 | 123.45 |       |       | 117.94 | 6.23         | 34.28  | 35.00  | Peak    | 193   | 135 VERTICAL |
| 2 | 5297.20 | 113.22 |       |       | 107.71 | 6.23         | 34.28  | 35.00  | Average | 193   | 135 VERTICAL |
| 3 | 5350.00 | 51.59  | 54.00 | -2.41 | 45.97  | 6.26         | 34.36  | 35.00  | Average | 193   | 135 VERTICAL |
| 4 | 5350.00 | 66.33  | 74.00 | -7.67 | 60.71  | 6.26         | 34.36  | 35.00  | Peak    | 193   | 135 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

#### Channel 64

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5317.00 | 120.72 |       |       | 115.17 | 6.24         | 34.31  | 35.00  | Peak    | 192   | 136 VERTICAL |
| 2 | 5317.40 | 109.98 |       |       | 104.43 | 6.24         | 34.31  | 35.00  | Average | 192   | 136 VERTICAL |
| 3 | 5350.00 | 66.76  | 74.00 | -7.24 | 61.14  | 6.26         | 34.36  | 35.00  | Peak    | 192   | 136 VERTICAL |
| 4 | 5350.20 | 52.62  | 54.00 | -1.38 | 47.00  | 6.26         | 34.36  | 35.00  | Average | 192   | 136 VERTICAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                          |                |                                                                                             |
|---------------|----------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                                             |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                                             |

#### Channel 100

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5459.80 | 64.65  | 74.00      | -9.35      | 58.79      | 6.33              | 34.52         | 34.99 Peak    | 203   | 210   | VERTICAL  |
| 2 | 5460.00 | 49.86  | 54.00      | -4.14      | 44.00      | 6.33              | 34.52         | 34.99 Average | 203   | 210   | VERTICAL  |
| 3 | 5468.20 | 66.89  | 68.20      | -1.31      | 60.99      | 6.34              | 34.55         | 34.99 Peak    | 203   | 210   | VERTICAL  |
| 4 | 5499.60 | 110.42 |            |            | 104.45     | 6.36              | 34.60         | 34.99 Average | 203   | 210   | VERTICAL  |
| 5 | 5501.40 | 120.91 |            |            | 114.95     | 6.36              | 34.60         | 35.00 Peak    | 203   | 210   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5454.40 | 58.77  | 74.00      | -15.23     | 52.91      | 6.33              | 34.52         | 34.99 Peak    | 196   | 210   | VERTICAL  |
| 2 | 5460.00 | 46.52  | 54.00      | -7.48      | 40.66      | 6.33              | 34.52         | 34.99 Average | 196   | 210   | VERTICAL  |
| 3 | 5470.00 | 58.30  | 68.20      | -9.90      | 52.40      | 6.34              | 34.55         | 34.99 Peak    | 196   | 210   | VERTICAL  |
| 4 | 5580.80 | 113.01 |            |            | 107.02     | 6.39              | 34.61         | 35.01 Average | 196   | 210   | VERTICAL  |
| 5 | 5581.60 | 123.58 |            |            | 117.58     | 6.39              | 34.62         | 35.01 Peak    | 196   | 210   | VERTICAL  |
| 6 | 5725.60 | 59.22  | 68.20      | -8.98      | 53.16      | 6.45              | 34.64         | 35.03 Peak    | 196   | 210   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5704.20 | 104.41 |            |            | 98.36      | 6.44              | 34.64         | 35.03 Average | 203   | 248   | VERTICAL  |
| 2 | 5705.00 | 115.35 |            |            | 109.30     | 6.44              | 34.64         | 35.03 Peak    | 203   | 248   | VERTICAL  |
| 3 | 5725.00 | 67.08  | 68.20      | -1.12      | 61.02      | 6.45              | 34.64         | 35.03 Peak    | 203   | 248   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                          |                |                                                                                |
|---------------|----------------------------------------------------------|----------------|--------------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                            |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015 ~ Oct. 30, 2015                            |                |                                                                                |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                                |

#### Channel 54

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5266.40 | 111.56 |        |        | 106.12 | 6.21         | 34.23  | 35.00  | Average | 202   | 135 VERTICAL |
| 2 | 5266.40 | 120.52 |        |        | 115.08 | 6.21         | 34.23  | 35.00  | Peak    | 202   | 135 VERTICAL |
| 3 | 5350.00 | 52.67  | 54.00  | -1.33  | 47.05  | 6.26         | 34.36  | 35.00  | Average | 202   | 135 VERTICAL |
| 4 | 5350.00 | 63.65  | 74.00  | -10.35 | 58.03  | 6.26         | 34.36  | 35.00  | Peak    | 202   | 135 VERTICAL |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5306.40 | 110.90 |        |        | 105.39 | 6.23         | 34.28  | 35.00  | Peak    | 195   | 133 VERTICAL |
| 2 | 5306.80 | 101.70 |        |        | 96.19  | 6.23         | 34.28  | 35.00  | Average | 195   | 133 VERTICAL |
| 3 | 5350.00 | 52.79  | 54.00  | -1.21  | 47.17  | 6.26         | 34.36  | 35.00  | Average | 195   | 133 VERTICAL |
| 4 | 5350.40 | 63.49  | 74.00  | -10.51 | 57.87  | 6.26         | 34.36  | 35.00  | Peak    | 195   | 133 VERTICAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                          |                |                                                                                             |
|---------------|----------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                                             |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5450.40 | 50.04  | 54.00  | -3.96  | 44.18  | 6.33         | 34.52  | 34.99 | 192   | 208   | VERTICAL  |
| 2 | 5450.40 | 62.17  | 74.00  | -11.83 | 56.31  | 6.33         | 34.52  | 34.99 | 192   | 208   | VERTICAL  |
| 3 | 5469.60 | 66.99  | 68.20  | -1.21  | 61.09  | 6.34         | 34.55  | 34.99 | 192   | 208   | VERTICAL  |
| 4 | 5511.20 | 114.30 |        |        | 108.34 | 6.36         | 34.60  | 35.00 | 192   | 208   | VERTICAL  |
| 5 | 5511.60 | 104.25 |        |        | 98.29  | 6.36         | 34.60  | 35.00 | 192   | 208   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5451.00 | 61.71  | 74.00  | -12.29 | 55.85  | 6.33         | 34.52  | 34.99 | 200   | 212   | VERTICAL  |
| 2 | 5451.60 | 49.05  | 54.00  | -4.95  | 43.19  | 6.33         | 34.52  | 34.99 | 200   | 212   | VERTICAL  |
| 3 | 5470.00 | 66.88  | 68.20  | -1.32  | 60.98  | 6.34         | 34.55  | 34.99 | 200   | 212   | VERTICAL  |
| 4 | 5551.20 | 108.31 |        |        | 102.32 | 6.38         | 34.61  | 35.00 | 200   | 212   | VERTICAL  |
| 5 | 5551.20 | 118.43 |        |        | 112.44 | 6.38         | 34.61  | 35.00 | 200   | 212   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5668.40 | 107.24 |        |       | 101.21 | 6.43         | 34.63  | 35.03 | 201   | 213   | VERTICAL  |
| 2 | 5668.80 | 116.84 |        |       | 110.81 | 6.43         | 34.63  | 35.03 | 201   | 213   | VERTICAL  |
| 3 | 5728.80 | 66.87  | 68.20  | -1.33 | 60.81  | 6.45         | 34.64  | 35.03 | 201   | 213   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                          |                |                                                                                            |
|---------------|----------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                                            |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5138.00 | 57.96  | 74.00  | -16.04 | 52.83  | 6.12         | 34.01  | 35.00 | Peak    | 188   | 137 VERTICAL |
| 2 | 5150.00 | 45.78  | 54.00  | -8.22  | 40.61  | 6.13         | 34.04  | 35.00 | Average | 188   | 137 VERTICAL |
| 3 | 5267.00 | 109.75 |        |        | 104.31 | 6.21         | 34.23  | 35.00 | Peak    | 188   | 137 VERTICAL |
| 4 | 5268.00 | 98.93  |        |        | 93.49  | 6.21         | 34.23  | 35.00 | Average | 188   | 137 VERTICAL |
| 5 | 5356.00 | 52.62  | 54.00  | -1.38  | 47.00  | 6.26         | 34.36  | 35.00 | Average | 188   | 137 VERTICAL |
| 6 | 5356.00 | 65.28  | 74.00  | -8.72  | 59.66  | 6.26         | 34.36  | 35.00 | Peak    | 188   | 137 VERTICAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5450.00 | 52.58  | 54.00  | -1.42  | 46.72  | 6.33         | 34.52  | 34.99 | Average | 189   | 210 VERTICAL |
| 2 | 5450.00 | 65.37  | 74.00  | -8.63  | 59.51  | 6.33         | 34.52  | 34.99 | Peak    | 189   | 210 VERTICAL |
| 3 | 5470.00 | 63.30  | 68.20  | -4.90  | 57.40  | 6.34         | 34.55  | 34.99 | Peak    | 189   | 210 VERTICAL |
| 4 | 5531.00 | 95.77  |        |        | 89.79  | 6.37         | 34.61  | 35.00 | Average | 189   | 210 VERTICAL |
| 5 | 5551.00 | 107.29 |        |        | 101.30 | 6.38         | 34.61  | 35.00 | Peak    | 189   | 210 VERTICAL |
| 6 | 5760.00 | 56.99  | 68.20  | -11.21 | 50.93  | 6.46         | 34.65  | 35.05 | Peak    | 189   | 210 VERTICAL |

Item 4, 5 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5449.00 | 50.98  | 54.00  | -3.02  | 45.12  | 6.33         | 34.52  | 34.99 | Average | 200   | 211 VERTICAL |
| 2 | 5450.00 | 63.45  | 74.00  | -10.55 | 57.59  | 6.33         | 34.52  | 34.99 | Peak    | 200   | 211 VERTICAL |
| 3 | 5470.00 | 66.93  | 68.20  | -1.27  | 61.03  | 6.34         | 34.55  | 34.99 | Peak    | 200   | 211 VERTICAL |
| 4 | 5590.00 | 102.45 |        |        | 96.45  | 6.39         | 34.62  | 35.01 | Average | 200   | 211 VERTICAL |
| 5 | 5591.00 | 113.78 |        |        | 107.78 | 6.39         | 34.62  | 35.01 | Peak    | 200   | 211 VERTICAL |
| 6 | 5732.00 | 64.52  | 68.20  | -3.68  | 58.47  | 6.45         | 34.64  | 35.04 | Peak    | 200   | 211 VERTICAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                                          |                |                                                               |
|---------------|----------------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                               |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Factor | Preamp<br>Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|----------------------|--------|------------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m   | dB               |         | cm    | deg   |           |
| 1 | 5718.20 | 123.93 |               |               | 117.87        | 6.45                 | 34.64  | 35.03            | Peak    | 200   | 216   | VERTICAL  |
| 2 | 5718.80 | 112.43 |               |               | 106.37        | 6.45                 | 34.64  | 35.03            | Average | 200   | 216   | VERTICAL  |
| 3 | 5856.80 | 59.68  | 68.20         | -8.52         | 53.57         | 6.50                 | 34.67  | 35.06            | Peak    | 200   | 216   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                          |                |                                                                             |
|---------------|----------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                             |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos | T/Pos |            |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | cm    | deg   | Pol/Phase  |
| 1 | 5713.60 | 118.33 |        |       | 112.28 | 6.44         | 34.64  | 35.03  | 200   | 166   | HORIZONTAL |
| 2 | 5714.40 | 107.63 |        |       | 101.58 | 6.44         | 34.64  | 35.03  | 200   | 166   | HORIZONTAL |
| 3 | 5853.20 | 58.33  | 68.20  | -9.87 | 52.23  | 6.49         | 34.67  | 35.06  | 200   | 166   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.



|               |                                                          |                |                                                                             |
|---------------|----------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                             |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                             |

### Channel 142

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5708.40 | 121.88 |        |       | 115.83 | 6.44         | 34.64  | 35.03 | 200   | 216   | VERTICAL  |
| 2 | 5709.20 | 111.59 |        |       | 105.54 | 6.44         | 34.64  | 35.03 | 200   | 216   | VERTICAL  |
| 3 | 5850.00 | 64.19  | 68.20  | -4.01 | 58.09  | 6.49         | 34.67  | 35.06 | 200   | 216   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5710 MHz.



|               |                                                          |                |                                                                             |
|---------------|----------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                            |                |                                                                             |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5668.40 | 105.53 |        |       | 99.50  | 6.43         | 34.63  | 35.03 | Average | 195   | 216 VERTICAL |
| 2 | 5668.40 | 115.01 |        |       | 108.98 | 6.43         | 34.63  | 35.03 | Peak    | 195   | 216 VERTICAL |
| 3 | 5850.80 | 66.93  | 68.20  | -1.27 | 60.83  | 6.49         | 34.67  | 35.06 | Peak    | 195   | 216 VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                |                |                                                                      |
|---------------|------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                      |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                      |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5252.62 | 109.57 |        |        | 104.17 | 6.20         | 34.20  | 35.00  | Average | 206   | 358 VERTICAL |
| 2 | 5253.05 | 119.13 |        |        | 113.73 | 6.20         | 34.20  | 35.00  | Peak    | 206   | 358 VERTICAL |
| 3 | 5351.30 | 59.03  | 74.00  | -14.97 | 53.41  | 6.26         | 34.36  | 35.00  | Peak    | 206   | 358 VERTICAL |
| 4 | 5354.34 | 47.70  | 54.00  | -6.30  | 42.08  | 6.26         | 34.36  | 35.00  | Average | 206   | 358 VERTICAL |

Item 1, 2 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5294.50 | 120.03 |        |       | 114.52 | 6.23         | 34.28  | 35.00  | Peak    | 140   | 6 HORIZONTAL |
| 2 | 5294.79 | 109.84 |        |       | 104.33 | 6.23         | 34.28  | 35.00  | Average | 140   | 6 HORIZONTAL |
| 3 | 5350.00 | 51.08  | 54.00  | -2.92 | 45.46  | 6.26         | 34.36  | 35.00  | Average | 140   | 6 HORIZONTAL |
| 4 | 5351.45 | 66.08  | 74.00  | -7.92 | 60.46  | 6.26         | 34.36  | 35.00  | Peak    | 140   | 6 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5316.82 | 106.65 |        |       | 101.10 | 6.24         | 34.31  | 35.00  | Average | 163   | 6 HORIZONTAL |
| 2 | 5316.82 | 117.96 |        |       | 112.41 | 6.24         | 34.31  | 35.00  | Peak    | 163   | 6 HORIZONTAL |
| 3 | 5350.00 | 52.77  | 54.00  | -1.23 | 47.15  | 6.26         | 34.36  | 35.00  | Average | 163   | 6 HORIZONTAL |
| 4 | 5350.00 | 67.29  | 74.00  | -6.71 | 61.67  | 6.26         | 34.36  | 35.00  | Peak    | 163   | 6 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                         |
|---------------|------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                         |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |           |
| 1 | 5457.16 | 48.87  | 54.00         | -5.13         | 43.01         | 6.33                        | 34.52            | 34.99 Average | 149   | 359   | VERTICAL  |
| 2 | 5458.32 | 62.01  | 74.00         | -11.99        | 56.15         | 6.33                        | 34.52            | 34.99 Peak    | 149   | 359   | VERTICAL  |
| 3 | 5463.53 | 66.50  | 68.20         | -1.70         | 60.60         | 6.34                        | 34.55            | 34.99 Peak    | 149   | 359   | VERTICAL  |
| 4 | 5503.18 | 108.19 |               |               | 102.23        | 6.36                        | 34.60            | 35.00 Average | 149   | 359   | VERTICAL  |
| 5 | 5503.18 | 118.21 |               |               | 112.25        | 6.36                        | 34.60            | 35.00 Peak    | 149   | 359   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |            |
| 1 | 5404.17 | 47.30  | 54.00         | -6.70         | 41.56         | 6.29                        | 34.44            | 34.99 Average | 181   | 6     | HORIZONTAL |
| 2 | 5433.50 | 60.31  | 74.00         | -13.69        | 54.49         | 6.32                        | 34.49            | 34.99 Peak    | 181   | 6     | HORIZONTAL |
| 3 | 5467.12 | 61.09  | 68.20         | -7.11         | 55.19         | 6.34                        | 34.55            | 34.99 Peak    | 181   | 6     | HORIZONTAL |
| 4 | 5576.38 | 111.47 |               |               | 105.48        | 6.39                        | 34.61            | 35.01 Average | 181   | 6     | HORIZONTAL |
| 5 | 5577.11 | 122.21 |               |               | 116.22        | 6.39                        | 34.61            | 35.01 Peak    | 181   | 6     | HORIZONTAL |
| 6 | 5759.01 | 60.87  | 68.20         | -7.33         | 54.81         | 6.46                        | 34.65            | 35.05 Peak    | 181   | 6     | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB            | cm    | deg   |           |
| 1 | 5702.60 | 117.73 |               |               | 111.68        | 6.44                        | 34.64            | 35.03 Peak    | 134   | 356   | VERTICAL  |
| 2 | 5703.18 | 108.00 |               |               | 101.95        | 6.44                        | 34.64            | 35.03 Average | 134   | 356   | VERTICAL  |
| 3 | 5726.05 | 66.29  | 68.20         | -1.91         | 60.23         | 6.45                        | 34.64            | 35.03 Peak    | 134   | 356   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                          |
|---------------|------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                                          |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                                          |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
| 1 | 5120.20 | 46.69  | 54.00  | -7.31  | 41.59  | 6.11         | 33.99  | 35.00  | Average | 143   | 353 HORIZONTAL |
| 2 | 5122.81 | 58.91  | 74.00  | -15.09 | 53.78  | 6.12         | 34.01  | 35.00  | Peak    | 143   | 353 HORIZONTAL |
| 3 | 5251.75 | 109.35 |        |        | 103.95 | 6.20         | 34.20  | 35.00  | Average | 143   | 353 HORIZONTAL |
| 4 | 5252.62 | 119.21 |        |        | 113.81 | 6.20         | 34.20  | 35.00  | Peak    | 143   | 353 HORIZONTAL |
| 5 | 5350.00 | 47.85  | 54.00  | -6.15  | 42.23  | 6.26         | 34.36  | 35.00  | Average | 143   | 353 HORIZONTAL |
| 6 | 5350.87 | 58.83  | 74.00  | -15.17 | 53.21  | 6.26         | 34.36  | 35.00  | Peak    | 143   | 353 HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5291.90 | 109.66 |        |       | 104.19 | 6.22         | 34.25  | 35.00  | Average | 196   | 360 VERTICAL |
| 2 | 5292.19 | 120.78 |        |       | 115.31 | 6.22         | 34.25  | 35.00  | Peak    | 196   | 360 VERTICAL |
| 3 | 5350.00 | 52.36  | 54.00  | -1.64 | 46.74  | 6.26         | 34.36  | 35.00  | Average | 196   | 360 VERTICAL |
| 4 | 5350.00 | 69.29  | 74.00  | -4.71 | 63.67  | 6.26         | 34.36  | 35.00  | Peak    | 196   | 360 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5313.34 | 104.75 |        |       | 99.20  | 6.24         | 34.31  | 35.00  | Average | 195   | 358 VERTICAL |
| 2 | 5313.92 | 116.30 |        |       | 110.75 | 6.24         | 34.31  | 35.00  | Peak    | 195   | 358 VERTICAL |
| 3 | 5351.55 | 52.94  | 54.00  | -1.06 | 47.32  | 6.26         | 34.36  | 35.00  | Average | 195   | 358 VERTICAL |
| 4 | 5352.13 | 67.17  | 74.00  | -6.83 | 61.55  | 6.26         | 34.36  | 35.00  | Peak    | 195   | 358 VERTICAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                                             |

### Channel 100

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5444.43 | 61.03  | 74.00      | -12.97     | 55.21      | 6.32              | 34.49         | 34.99 Peak    | 157   | 1     | VERTICAL  |
| 2 | 5456.87 | 47.53  | 54.00      | -6.47      | 41.67      | 6.33              | 34.52         | 34.99 Average | 157   | 1     | VERTICAL  |
| 3 | 5470.00 | 67.04  | 68.20      | -1.16      | 61.14      | 6.34              | 34.55         | 34.99 Peak    | 157   | 1     | VERTICAL  |
| 4 | 5502.89 | 106.25 |            |            | 100.29     | 6.36              | 34.60         | 35.00 Average | 157   | 1     | VERTICAL  |
| 5 | 5502.89 | 117.92 |            |            | 111.96     | 6.36              | 34.60         | 35.00 Peak    | 157   | 1     | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

### Channel 116

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5354.96 | 60.48  | 74.00      | -13.52     | 54.86      | 6.26              | 34.36         | 35.00 Peak    | 164   | 357   | VERTICAL  |
| 2 | 5408.51 | 47.33  | 54.00      | -6.67      | 41.59      | 6.29              | 34.44         | 34.99 Average | 164   | 357   | VERTICAL  |
| 3 | 5464.95 | 59.50  | 68.20      | -8.70      | 53.60      | 6.34              | 34.55         | 34.99 Peak    | 164   | 357   | VERTICAL  |
| 4 | 5585.07 | 110.00 |            |            | 104.00     | 6.39              | 34.62         | 35.01 Average | 164   | 357   | VERTICAL  |
| 5 | 5585.79 | 120.20 |            |            | 114.20     | 6.39              | 34.62         | 35.01 Peak    | 164   | 357   | VERTICAL  |
| 6 | 5729.34 | 59.62  | 68.20      | -8.58      | 53.56      | 6.45              | 34.64         | 35.03 Peak    | 164   | 357   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

### Channel 140

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |           |
| 1 | 5703.04 | 102.95 |            |            | 96.90      | 6.44              | 34.64         | 35.03 Average | 152   | 359   | VERTICAL  |
| 2 | 5703.91 | 113.02 |            |            | 106.97     | 6.44              | 34.64         | 35.03 Peak    | 152   | 359   | VERTICAL  |
| 3 | 5725.00 | 67.04  | 68.20      | -1.16      | 60.98      | 6.45              | 34.64         | 35.03 Peak    | 152   | 359   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                   |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                                   |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                                   |

#### Channel 54

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5263.05 | 105.32 |        |       | 99.88  | 6.21         | 34.23  | 35.00  | Average | 209   | 1 HORIZONTAL |
| 2 | 5283.89 | 115.49 |        |       | 110.02 | 6.22         | 34.25  | 35.00  | Peak    | 209   | 1 HORIZONTAL |
| 3 | 5350.00 | 52.60  | 54.00  | -1.40 | 46.98  | 6.26         | 34.36  | 35.00  | Average | 209   | 1 HORIZONTAL |
| 4 | 5350.32 | 65.12  | 74.00  | -8.88 | 59.50  | 6.26         | 34.36  | 35.00  | Peak    | 209   | 1 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5320.42 | 98.00  |        |       | 92.45  | 6.24         | 34.31  | 35.00  | Average | 153   | 358 HORIZONTAL |
| 2 | 5321.00 | 108.52 |        |       | 102.97 | 6.24         | 34.31  | 35.00  | Peak    | 153   | 358 HORIZONTAL |
| 3 | 5350.00 | 52.76  | 54.00  | -1.24 | 47.14  | 6.26         | 34.36  | 35.00  | Average | 153   | 358 HORIZONTAL |
| 4 | 5354.28 | 65.22  | 74.00  | -8.78 | 59.60  | 6.26         | 34.36  | 35.00  | Peak    | 153   | 358 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.



|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |            |
| 1 | 5417.67 | 60.92  | 74.00      | -13.08     | 55.13      | 6.31              | 34.47         | 34.99 Peak    | 195   | 357   | HORIZONTAL |
| 2 | 5439.96 | 48.13  | 54.00      | -5.87      | 42.31      | 6.32              | 34.49         | 34.99 Average | 195   | 357   | HORIZONTAL |
| 3 | 5470.00 | 67.13  | 68.20      | -1.07      | 61.23      | 6.34              | 34.55         | 34.99 Peak    | 195   | 357   | HORIZONTAL |
| 4 | 5502.76 | 100.00 |            |            | 94.04      | 6.36              | 34.60         | 35.00 Average | 195   | 357   | HORIZONTAL |
| 5 | 5502.76 | 109.70 |            |            | 103.74     | 6.36              | 34.60         | 35.00 Peak    | 195   | 357   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |            |
| 1 | 5451.01 | 63.39  | 74.00      | -10.61     | 57.53      | 6.33              | 34.52         | 34.99 Peak    | 171   | 6     | HORIZONTAL |
| 2 | 5458.83 | 50.23  | 54.00      | -3.77      | 44.37      | 6.33              | 34.52         | 34.99 Average | 171   | 6     | HORIZONTAL |
| 3 | 5465.34 | 66.63  | 68.20      | -1.57      | 60.73      | 6.34              | 34.55         | 34.99 Peak    | 171   | 6     | HORIZONTAL |
| 4 | 5545.66 | 107.73 |            |            | 101.75     | 6.37              | 34.61         | 35.00 Average | 171   | 6     | HORIZONTAL |
| 5 | 5546.09 | 118.15 |            |            | 112.17     | 6.37              | 34.61         | 35.00 Peak    | 171   | 6     | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Preamp Factor | Remark        | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|---------------|---------------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m          | dB            | cm    | deg   |            |
| 1 | 5666.09 | 104.15 |            |            | 98.13      | 6.42              | 34.63         | 35.03 Average | 191   | 5     | HORIZONTAL |
| 2 | 5666.53 | 111.84 |            |            | 105.81     | 6.43              | 34.63         | 35.03 Peak    | 191   | 5     | HORIZONTAL |
| 3 | 5726.01 | 66.95  | 68.20      | -1.25      | 60.89      | 6.45              | 34.64         | 35.03 Peak    | 191   | 5     | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                |                |                                                                                            |
|---------------|------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015 ~ Oct. 25, 2015                  |                |                                                                                            |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5126.12 | 59.65  | 74.00  | -14.35 | 54.52 | 6.12         | 34.01  | 35.00 | Peak    | 199   | 359 VERTICAL |
| 2 | 5147.83 | 46.42  | 54.00  | -7.58  | 41.25 | 6.13         | 34.04  | 35.00 | Average | 199   | 359 VERTICAL |
| 3 | 5283.49 | 102.18 |        |        | 96.71 | 6.22         | 34.25  | 35.00 | Peak    | 199   | 359 VERTICAL |
| 4 | 5302.30 | 92.69  |        |        | 87.18 | 6.23         | 34.28  | 35.00 | Average | 199   | 359 VERTICAL |
| 5 | 5356.57 | 52.97  | 54.00  | -1.03  | 47.35 | 6.26         | 34.36  | 35.00 | Average | 199   | 359 VERTICAL |
| 6 | 5356.57 | 64.56  | 74.00  | -9.44  | 58.94 | 6.26         | 34.36  | 35.00 | Peak    | 199   | 359 VERTICAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase  |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|---------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm      | deg   |            |
| 1 | 5455.47 | 52.50  | 54.00  | -1.50 | 46.64 | 6.33         | 34.52  | 34.99 | Average | 203   | 2 VERTICAL |
| 2 | 5456.92 | 65.64  | 74.00  | -8.36 | 59.78 | 6.33         | 34.52  | 34.99 | Peak    | 203   | 2 VERTICAL |
| 3 | 5461.45 | 65.49  | 68.20  | -2.71 | 59.63 | 6.33         | 34.52  | 34.99 | Peak    | 203   | 2 VERTICAL |
| 4 | 5535.79 | 92.30  |        |       | 86.32 | 6.37         | 34.61  | 35.00 | Average | 203   | 2 VERTICAL |
| 5 | 5536.51 | 102.77 |        |       | 96.79 | 6.37         | 34.61  | 35.00 | Peak    | 203   | 2 VERTICAL |
| 6 | 5769.14 | 60.47  | 68.20  | -7.73 | 54.40 | 6.46         | 34.66  | 35.05 | Peak    | 203   | 2 VERTICAL |

Item 4, 5 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5452.26 | 62.69  | 74.00  | -11.31 | 56.83  | 6.33         | 34.52  | 34.99 | Peak    | 201   | 6 HORIZONTAL |
| 2 | 5453.70 | 50.61  | 54.00  | -3.39  | 44.75  | 6.33         | 34.52  | 34.99 | Average | 201   | 6 HORIZONTAL |
| 3 | 5467.11 | 64.23  | 68.20  | -3.97  | 58.33  | 6.34         | 34.55  | 34.99 | Peak    | 201   | 6 HORIZONTAL |
| 4 | 5588.29 | 101.63 |        |        | 95.63  | 6.39         | 34.62  | 35.01 | Average | 201   | 6 HORIZONTAL |
| 5 | 5589.02 | 111.49 |        |        | 105.49 | 6.39         | 34.62  | 35.01 | Peak    | 201   | 6 HORIZONTAL |
| 6 | 5728.62 | 66.43  | 68.20  | -1.77  | 60.37  | 6.45         | 34.64  | 35.03 | Peak    | 201   | 6 HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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



### Straddle Channel

|               |                                                |                |                                                               |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                               |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5722.89 | 119.70 |        |       | 113.64 | 6.45         | 34.64  | 35.03 | Peak    | 121   | 354 VERTICAL |
| 2 | 5723.62 | 109.93 |        |       | 103.87 | 6.45         | 34.64  | 35.03 | Average | 121   | 354 VERTICAL |
| 3 | 5904.52 | 59.75  | 68.20  | -8.45 | 53.62  | 6.52         | 34.68  | 35.07 | Peak    | 121   | 354 VERTICAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                             |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5716.38 | 110.54 |        |       | 104.49 | 6.44         | 34.64  | 35.03 | Average | 194   | 4 HORIZONTAL |
| 2 | 5716.38 | 119.62 |        |       | 113.57 | 6.44         | 34.64  | 35.03 | Peak    | 194   | 4 HORIZONTAL |
| 3 | 5861.10 | 58.98  | 68.20  | -9.22 | 52.88  | 6.50         | 34.67  | 35.07 | Peak    | 194   | 4 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                  |                |                                                                             |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                             |

### Channel 142

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
| 1 | 5702.76 | 109.49 |        |       | 103.44 | 6.44         | 34.64  | 35.03  | Average | 190   | 355 HORIZONTAL |
| 2 | 5703.49 | 118.82 |        |       | 112.77 | 6.44         | 34.64  | 35.03  | Peak    | 190   | 355 HORIZONTAL |
| 3 | 5942.27 | 60.45  | 68.20  | -7.75 | 54.31  | 6.53         | 34.69  | 35.08  | Peak    | 190   | 355 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 25, 2015                                  |                |                                                                             |
| Test Mode     | Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |     |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|-----|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg |
| 1 | 5662.50 | 115.98 |        |       | 109.96 | 6.42         | 34.63  | 35.03  | Peak    | 202   | 358 |
| 2 | 5702.30 | 105.54 |        |       | 99.49  | 6.44         | 34.64  | 35.03  | Average | 202   | 358 |
| 3 | 5864.38 | 66.89  | 68.20  | -1.31 | 60.79  | 6.50         | 34.67  | 35.07  | Peak    | 202   | 358 |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                |                |                                                                      |
|---------------|------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 27, 2015                                  |                |                                                                      |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                      |

#### Channel 52

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |       | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5253.27 | 109.98 |       |        | 104.58 | 6.20         | 34.20  | 35.00  | Average | 184   | 352 HORIZONTAL |
| 2 | 5253.75 | 120.44 |       |        | 115.04 | 6.20         | 34.20  | 35.00  | Peak    | 184   | 352 HORIZONTAL |
| 3 | 5350.00 | 46.02  | 54.00 | -7.98  | 40.40  | 6.26         | 34.36  | 35.00  | Average | 184   | 352 HORIZONTAL |
| 4 | 5350.00 | 56.53  | 74.00 | -17.47 | 50.91  | 6.26         | 34.36  | 35.00  | Peak    | 184   | 352 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5260 MHz.

#### Channel 60

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |             |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|-------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg         |
|   |         |        |       | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase   |
| 1 | 5300.64 | 119.52 |       |        | 114.01 | 6.23         | 34.28  | 35.00  | Peak    | 187   | 10 VERTICAL |
| 2 | 5300.96 | 109.90 |       |        | 104.39 | 6.23         | 34.28  | 35.00  | Average | 187   | 10 VERTICAL |
| 3 | 5350.00 | 48.40  | 54.00 | -5.60  | 42.78  | 6.26         | 34.36  | 35.00  | Average | 187   | 10 VERTICAL |
| 4 | 5350.64 | 61.48  | 74.00 | -12.52 | 55.86  | 6.26         | 34.36  | 35.00  | Peak    | 187   | 10 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

#### Channel 64

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |            |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg        |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase  |
| 1 | 5321.12 | 107.72 |       |       | 102.17 | 6.24         | 34.31  | 35.00  | Average | 163   | 3 VERTICAL |
| 2 | 5321.44 | 117.90 |       |       | 112.35 | 6.24         | 34.31  | 35.00  | Peak    | 163   | 3 VERTICAL |
| 3 | 5350.00 | 52.83  | 54.00 | -1.17 | 47.21  | 6.26         | 34.36  | 35.00  | Average | 163   | 3 VERTICAL |
| 4 | 5350.00 | 68.17  | 74.00 | -5.83 | 62.55  | 6.26         | 34.36  | 35.00  | Peak    | 163   | 3 VERTICAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                         |
|---------------|------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 27, 2015                                  |                |                                                                         |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase      |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |                |
| 1 | 5454.07 | 60.66  | 74.00  | -13.34 | 54.80  | 6.33         | 34.52  | 34.99 | Peak    | 187   | 352 HORIZONTAL |
| 2 | 5460.00 | 47.05  | 54.00  | -6.95  | 41.19  | 6.33         | 34.52  | 34.99 | Average | 187   | 352 HORIZONTAL |
| 3 | 5470.00 | 52.98  | 54.00  | -1.02  | 47.08  | 6.34         | 34.55  | 34.99 | Average | 187   | 352 HORIZONTAL |
| 4 | 5470.00 | 64.18  | 74.00  | -9.82  | 58.28  | 6.34         | 34.55  | 34.99 | Peak    | 187   | 352 HORIZONTAL |
| 5 | 5493.43 | 108.30 |        |        | 102.37 | 6.35         | 34.57  | 34.99 | Average | 187   | 352 HORIZONTAL |
| 6 | 5493.75 | 119.29 |        |        | 113.36 | 6.35         | 34.57  | 34.99 | Peak    | 187   | 352 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase      |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |                |
| 1 | 5456.64 | 56.30  | 74.00  | -17.70 | 50.44  | 6.33         | 34.52  | 34.99 | Peak    | 200   | 347 HORIZONTAL |
| 2 | 5460.00 | 45.74  | 54.00  | -8.26  | 39.88  | 6.33         | 34.52  | 34.99 | Average | 200   | 347 HORIZONTAL |
| 3 | 5468.56 | 56.85  | 74.00  | -17.15 | 50.95  | 6.34         | 34.55  | 34.99 | Peak    | 200   | 347 HORIZONTAL |
| 4 | 5470.00 | 46.06  | 54.00  | -7.94  | 40.16  | 6.34         | 34.55  | 34.99 | Average | 200   | 347 HORIZONTAL |
| 5 | 5574.23 | 122.92 |        |        | 116.93 | 6.39         | 34.61  | 35.01 | Peak    | 200   | 347 HORIZONTAL |
| 6 | 5574.71 | 111.72 |        |        | 105.73 | 6.39         | 34.61  | 35.01 | Average | 200   | 347 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5702.56 | 107.56 |        |       | 101.51 | 6.44         | 34.64  | 35.03 | Average | 212   | 346 VERTICAL |
| 2 | 5702.72 | 117.93 |        |       | 111.88 | 6.44         | 34.64  | 35.03 | Peak    | 212   | 346 VERTICAL |
| 3 | 5725.00 | 52.11  | 54.00  | -1.89 | 46.05  | 6.45         | 34.64  | 35.03 | Average | 212   | 346 VERTICAL |
| 4 | 5725.16 | 66.31  | 74.00  | -7.69 | 60.25  | 6.45         | 34.64  | 35.03 | Peak    | 212   | 346 VERTICAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                          |
|---------------|------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                                          |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                                          |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5119.62 | 44.49  | 54.00  | -9.51  | 39.39  | 6.11         | 33.99  | 35.00 | 165   | 350   | HORIZONTAL |
| 2 | 5139.33 | 57.10  | 74.00  | -16.90 | 51.97  | 6.12         | 34.01  | 35.00 | 165   | 350   | HORIZONTAL |
| 3 | 5253.75 | 119.27 |        |        | 113.87 | 6.20         | 34.20  | 35.00 | 165   | 350   | HORIZONTAL |
| 4 | 5254.23 | 108.38 |        |        | 102.98 | 6.20         | 34.20  | 35.00 | 165   | 350   | HORIZONTAL |
| 5 | 5350.00 | 45.01  | 54.00  | -8.99  | 39.39  | 6.26         | 34.36  | 35.00 | 165   | 350   | HORIZONTAL |
| 6 | 5352.79 | 57.32  | 74.00  | -16.68 | 51.70  | 6.26         | 34.36  | 35.00 | 165   | 350   | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5293.27 | 108.97 |        |        | 103.46 | 6.23         | 34.28  | 35.00 | 186   | 351   | HORIZONTAL |
| 2 | 5293.59 | 120.40 |        |        | 114.89 | 6.23         | 34.28  | 35.00 | 186   | 351   | HORIZONTAL |
| 3 | 5350.00 | 47.48  | 54.00  | -6.52  | 41.86  | 6.26         | 34.36  | 35.00 | 186   | 351   | HORIZONTAL |
| 4 | 5350.00 | 60.09  | 74.00  | -13.91 | 54.47  | 6.26         | 34.36  | 35.00 | 186   | 351   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5313.27 | 104.74 |        |       | 99.19  | 6.24         | 34.31  | 35.00 | 175   | 354   | HORIZONTAL |
| 2 | 5313.91 | 115.88 |        |       | 110.33 | 6.24         | 34.31  | 35.00 | 175   | 354   | HORIZONTAL |
| 3 | 5350.00 | 66.90  | 74.00  | -7.10 | 61.28  | 6.26         | 34.36  | 35.00 | 175   | 354   | HORIZONTAL |
| 4 | 5351.41 | 52.68  | 54.00  | -1.32 | 47.06  | 6.26         | 34.36  | 35.00 | 175   | 354   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.



|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                                             |

#### Channel 100

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5452.89 | 58.36  | 74.00      | -15.64     | 52.50      | 6.33              | 34.52  | 34.99         | Peak    | 210   | 351   | HORIZONTAL |
| 2 | 5453.53 | 46.49  | 54.00      | -7.51      | 40.63      | 6.33              | 34.52  | 34.99         | Average | 210   | 351   | HORIZONTAL |
| 3 | 5470.00 | 66.56  | 68.20      | -1.64      | 60.66      | 6.34              | 34.55  | 34.99         | Peak    | 210   | 351   | HORIZONTAL |
| 4 | 5493.27 | 106.73 |            |            | 100.80     | 6.35              | 34.57  | 34.99         | Average | 210   | 351   | HORIZONTAL |
| 5 | 5493.59 | 117.62 |            |            | 111.69     | 6.35              | 34.57  | 34.99         | Peak    | 210   | 351   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5413.33 | 44.60  | 54.00      | -9.40      | 38.81      | 6.31              | 34.47  | 34.99         | Average | 208   | 348   | HORIZONTAL |
| 2 | 5453.72 | 56.69  | 74.00      | -17.31     | 50.83      | 6.33              | 34.52  | 34.99         | Peak    | 208   | 348   | HORIZONTAL |
| 3 | 5463.85 | 56.95  | 68.20      | -11.25     | 51.05      | 6.34              | 34.55  | 34.99         | Peak    | 208   | 348   | HORIZONTAL |
| 4 | 5573.59 | 121.31 |            |            | 115.32     | 6.39              | 34.61  | 35.01         | Peak    | 208   | 348   | HORIZONTAL |
| 5 | 5574.87 | 110.92 |            |            | 104.93     | 6.39              | 34.61  | 35.01         | Average | 208   | 348   | HORIZONTAL |
| 6 | 5768.46 | 59.33  | 68.20      | -8.87      | 53.27      | 6.46              | 34.65  | 35.05         | Peak    | 208   | 348   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5701.76 | 115.01 |            |            | 108.96     | 6.44              | 34.64  | 35.03         | Peak    | 214   | 348   | VERTICAL  |
| 2 | 5702.24 | 103.64 |            |            | 97.59      | 6.44              | 34.64  | 35.03         | Average | 214   | 348   | VERTICAL  |
| 3 | 5725.16 | 66.66  | 68.20      | -1.54      | 60.60      | 6.45              | 34.64  | 35.03         | Peak    | 214   | 348   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                   |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                                   |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                                   |

#### Channel 54

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5271.92 | 105.14 |        |        | 99.70  | 6.21         | 34.23  | 35.00  | Average | 166   | 359 VERTICAL |
| 2 | 5271.92 | 114.36 |        |        | 108.92 | 6.21         | 34.23  | 35.00  | Peak    | 166   | 359 VERTICAL |
| 3 | 5350.00 | 63.54  | 74.00  | -10.46 | 57.92  | 6.26         | 34.36  | 35.00  | Peak    | 166   | 359 VERTICAL |
| 4 | 5351.44 | 52.64  | 54.00  | -1.36  | 47.02  | 6.26         | 34.36  | 35.00  | Average | 166   | 359 VERTICAL |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5311.92 | 100.61 |        |       | 95.06  | 6.24         | 34.31  | 35.00  | Average | 180   | 357 VERTICAL |
| 2 | 5312.24 | 110.14 |        |       | 104.59 | 6.24         | 34.31  | 35.00  | Peak    | 180   | 357 VERTICAL |
| 3 | 5351.60 | 64.47  | 74.00  | -9.53 | 58.85  | 6.26         | 34.36  | 35.00  | Peak    | 180   | 357 VERTICAL |
| 4 | 5353.21 | 52.38  | 54.00  | -1.62 | 46.76  | 6.26         | 34.36  | 35.00  | Average | 180   | 357 VERTICAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5460.00 | 47.81  | 54.00      | -6.19      | 41.95      | 6.33              | 34.52  | 34.99         | Average | 202   | 351   | HORIZONTAL |
| 2 | 5460.00 | 59.26  | 74.00      | -14.74     | 53.40      | 6.33              | 34.52  | 34.99         | Peak    | 202   | 351   | HORIZONTAL |
| 3 | 5470.00 | 52.41  | 54.00      | -1.59      | 46.51      | 6.34              | 34.55  | 34.99         | Average | 202   | 351   | HORIZONTAL |
| 4 | 5470.00 | 66.20  | 74.00      | -7.80      | 60.30      | 6.34              | 34.55  | 34.99         | Peak    | 202   | 351   | HORIZONTAL |
| 5 | 5502.63 | 112.47 |            |            | 106.51     | 6.36              | 34.60  | 35.00         | Peak    | 202   | 351   | HORIZONTAL |
| 6 | 5502.95 | 100.87 |            |            | 94.91      | 6.36              | 34.60  | 35.00         | Average | 202   | 351   | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5450.87 | 48.64  | 54.00      | -5.36      | 42.78      | 6.33              | 34.52  | 34.99         | Average | 196   | 2     | VERTICAL  |
| 2 | 5451.35 | 61.33  | 74.00      | -12.67     | 55.47      | 6.33              | 34.52  | 34.99         | Peak    | 196   | 2     | VERTICAL  |
| 3 | 5470.00 | 52.92  | 54.00      | -1.08      | 47.02      | 6.34              | 34.55  | 34.99         | Average | 196   | 2     | VERTICAL  |
| 4 | 5470.00 | 66.29  | 74.00      | -7.71      | 60.39      | 6.34              | 34.55  | 34.99         | Peak    | 196   | 2     | VERTICAL  |
| 5 | 5551.44 | 105.78 |            |            | 99.79      | 6.38              | 34.61  | 35.00         | Average | 196   | 2     | VERTICAL  |
| 6 | 5551.44 | 115.32 |            |            | 109.33     | 6.38              | 34.61  | 35.00         | Peak    | 196   | 2     | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5662.95 | 105.57 |            |            | 99.55      | 6.42              | 34.63  | 35.03         | Average | 221   | 343   | HORIZONTAL |
| 2 | 5663.59 | 115.18 |            |            | 109.16     | 6.42              | 34.63  | 35.03         | Peak    | 221   | 343   | HORIZONTAL |
| 3 | 5725.00 | 52.97  | 54.00      | -1.03      | 46.91      | 6.45              | 34.64  | 35.03         | Average | 221   | 343   | HORIZONTAL |
| 4 | 5725.00 | 66.41  | 74.00      | -7.59      | 60.35      | 6.45              | 34.64  | 35.03         | Peak    | 221   | 343   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                |                |                                                                                            |
|---------------|------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                                            |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                                            |

#### Channel 58

|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5254.90 | 95.81  |        |       | 90.41 | 6.20         | 34.20  | 35.00 | Average | 181   | 333 VERTICAL |
| 2 | 5255.39 | 105.34 |        |       | 99.94 | 6.20         | 34.20  | 35.00 | Peak    | 181   | 333 VERTICAL |
| 3 | 5350.00 | 52.88  | 54.00  | -1.12 | 47.26 | 6.26         | 34.36  | 35.00 | Average | 181   | 333 VERTICAL |
| 4 | 5356.25 | 66.04  | 74.00  | -7.96 | 60.42 | 6.26         | 34.36  | 35.00 | Peak    | 181   | 333 VERTICAL |

Item 1, 2 are the fundamental frequency at 5290 MHz.

#### Channel 106

|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase      |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm      | deg   |                |
| 1 | 5443.17 | 52.31  | 54.00  | -1.69 | 46.49 | 6.32         | 34.49  | 34.99 | Average | 200   | 348 HORIZONTAL |
| 2 | 5444.14 | 66.28  | 74.00  | -7.72 | 60.46 | 6.32         | 34.49  | 34.99 | Peak    | 200   | 348 HORIZONTAL |
| 3 | 5463.27 | 52.97  | 54.00  | -1.03 | 47.07 | 6.34         | 34.55  | 34.99 | Average | 200   | 348 HORIZONTAL |
| 4 | 5463.75 | 65.73  | 74.00  | -8.27 | 59.83 | 6.34         | 34.55  | 34.99 | Peak    | 200   | 348 HORIZONTAL |
| 5 | 5542.50 | 105.76 |        |       | 99.78 | 6.37         | 34.61  | 35.00 | Peak    | 200   | 348 HORIZONTAL |
| 6 | 5543.46 | 95.36  |        |       | 89.38 | 6.37         | 34.61  | 35.00 | Average | 200   | 348 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5530 MHz.

#### Channel 122

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5451.99 | 50.95  | 54.00  | -3.05 | 45.09  | 6.33         | 34.52  | 34.99 | Average | 204   | 351 VERTICAL |
| 2 | 5453.59 | 64.65  | 74.00  | -9.35 | 58.79  | 6.33         | 34.52  | 34.99 | Peak    | 204   | 351 VERTICAL |
| 3 | 5470.00 | 63.37  | 68.20  | -4.83 | 57.47  | 6.34         | 34.55  | 34.99 | Peak    | 204   | 351 VERTICAL |
| 4 | 5612.40 | 111.31 |        |       | 105.30 | 6.40         | 34.62  | 35.01 | Peak    | 204   | 351 VERTICAL |
| 5 | 5613.21 | 101.69 |        |       | 95.68  | 6.40         | 34.62  | 35.01 | Average | 204   | 351 VERTICAL |
| 6 | 5733.01 | 66.69  | 68.20  | -1.51 | 60.64  | 6.45         | 34.64  | 35.04 | Peak    | 204   | 351 VERTICAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                                |                |                                                               |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 27, 2015                                  |                |                                                               |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line   | Limit  | Level  | Loss         | Factor | Factor | Remark  |       | Pol/Phase      |
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB     |         | cm    | deg            |
| 1 | 5713.59 | 111.89 |        |        | 105.84 | 6.44         | 34.64  | 35.03  | Average | 205   | 345 HORIZONTAL |
| 2 | 5714.23 | 122.15 |        |        | 116.10 | 6.44         | 34.64  | 35.03  | Peak    | 205   | 345 HORIZONTAL |
| 3 | 5850.00 | 45.91  | 54.00  | -8.09  | 39.81  | 6.49         | 34.67  | 35.06  | Average | 205   | 345 HORIZONTAL |
| 4 | 5855.77 | 56.79  | 74.00  | -17.21 | 50.68  | 6.50         | 34.67  | 35.06  | Peak    | 205   | 345 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                             |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |     |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|-----|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg |
| 1 | 5713.59 | 110.79 |        |       | 104.74 | 6.44         | 34.64  | 35.03  | Average | 216   | 346 |
| 2 | 5714.39 | 121.10 |        |       | 115.05 | 6.44         | 34.64  | 35.03  | Peak    | 216   | 346 |
| 3 | 5927.53 | 58.44  | 68.20  | -9.76 | 52.31  | 6.52         | 34.69  | 35.08  | Peak    | 216   | 346 |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                             |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                             |

#### Channel 142

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | Remark | A/Pos   | T/Pos | Pol/Phase |          |
|---|---------|--------|---------------|---------------|---------------|----------------------|------------------|--------|---------|-------|-----------|----------|
|   | MHz     | dBuV/m | dBuV/m        |               | dBuV          | dB                   | dB/m             | dB     |         | cm    | deg       |          |
| 1 | 5713.21 | 107.66 |               |               | 101.61        | 6.44                 | 34.64            | 35.03  | Average | 233   | 341       | VERTICAL |
| 2 | 5714.01 | 117.45 |               |               | 111.40        | 6.44                 | 34.64            | 35.03  | Peak    | 233   | 341       | VERTICAL |
| 3 | 5854.81 | 58.52  | 74.00         | -15.48        | 52.41         | 6.50                 | 34.67            | 35.06  | Peak    | 233   | 341       | VERTICAL |
| 4 | 5856.41 | 47.12  | 54.00         | -6.88         | 41.01         | 6.50                 | 34.67            | 35.06  | Average | 233   | 341       | VERTICAL |

Item 1, 2 are the fundamental frequency at 5710 MHz.



|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 28, 2015                                  |                |                                                                             |
| Test Mode     | Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |     |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|-----|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg |
| 1 | 5693.21 | 103.59 |        |       | 97.55  | 6.43         | 34.64  | 35.03  | Average | 215   | 344 |
| 2 | 5693.21 | 112.97 |        |       | 106.93 | 6.43         | 34.64  | 35.03  | Peak    | 215   | 344 |
| 3 | 5854.01 | 66.91  | 68.20  | -1.29 | 60.80  | 6.50         | 34.67  | 35.06  | Peak    | 215   | 344 |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                |                |                                                                       |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                   |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3 + Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                                       |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                       |

#### Channel 52

|   | 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 | 5142.69 | 58.09  | 74.00  | -15.91 | 53.45  | 5.84  | 33.27   | 34.47  | 182   | 109   | Peak    | HORIZONTAL |
| 2 | 5145.10 | 45.80  | 54.00  | -8.20  | 41.16  | 5.84  | 33.27   | 34.47  | 182   | 109   | Average | HORIZONTAL |
| 3 | 5262.40 | 115.09 |        |        | 110.30 | 5.78  | 33.48   | 34.47  | 182   | 109   | Average | HORIZONTAL |
| 4 | 5262.89 | 124.92 |        |        | 120.13 | 5.78  | 33.48   | 34.47  | 182   | 109   | Peak    | HORIZONTAL |
| 5 | 5361.92 | 59.12  | 74.00  | -14.88 | 54.20  | 5.73  | 33.66   | 34.47  | 182   | 109   | Peak    | HORIZONTAL |
| 6 | 5362.89 | 46.92  | 54.00  | -7.08  | 42.00  | 5.73  | 33.66   | 34.47  | 182   | 109   | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

#### Channel 60

|   | 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 | 5301.60 | 111.27 |        |        | 106.44 | 5.76  | 33.54   | 34.47  | 356   | 148   | Average | HORIZONTAL |
| 2 | 5301.92 | 121.10 |        |        | 116.27 | 5.76  | 33.54   | 34.47  | 356   | 148   | Peak    | HORIZONTAL |
| 3 | 5350.00 | 59.87  | 74.00  | -14.13 | 54.98  | 5.73  | 33.63   | 34.47  | 356   | 148   | Peak    | HORIZONTAL |
| 4 | 5350.32 | 48.54  | 54.00  | -5.46  | 43.65  | 5.73  | 33.63   | 34.47  | 356   | 148   | Average | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

#### Channel 64

|   | 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 | 5317.12 | 121.73 |        |       | 116.88 | 5.75  | 33.57   | 34.47  | 205   | 168   | Peak    | VERTICAL  |
| 2 | 5317.76 | 111.45 |        |       | 106.60 | 5.75  | 33.57   | 34.47  | 205   | 168   | Average | VERTICAL  |
| 3 | 5350.00 | 52.88  | 54.00  | -1.12 | 47.99  | 5.73  | 33.63   | 34.47  | 205   | 168   | Average | VERTICAL  |
| 4 | 5351.09 | 65.98  | 74.00  | -8.02 | 61.09  | 5.73  | 33.63   | 34.47  | 205   | 168   | Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                         |
|---------------|------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                                         |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                         |

#### Channel 100

|   | 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 | 5459.30 | 63.32  | 74.00  | -10.68 | 58.30  | 5.68         | 33.81  | 34.47 | 179   | 118 Peak    | HORIZONTAL |
| 2 | 5459.62 | 49.83  | 54.00  | -4.17  | 44.81  | 5.68         | 33.81  | 34.47 | 179   | 118 Average | HORIZONTAL |
| 3 | 5470.00 | 66.90  | 68.20  | -1.30  | 61.85  | 5.68         | 33.84  | 34.47 | 179   | 118 Peak    | HORIZONTAL |
| 4 | 5500.96 | 111.16 |        |        | 106.08 | 5.66         | 33.90  | 34.48 | 179   | 118 Average | HORIZONTAL |
| 5 | 5501.28 | 121.26 |        |        | 116.18 | 5.66         | 33.90  | 34.48 | 179   | 118 Peak    | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | 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 | 5406.92 | 57.30  | 74.00  | -16.70 | 52.34  | 5.71         | 33.72  | 34.47 | 183   | 186 Peak    | VERTICAL  |
| 2 | 5439.78 | 45.53  | 54.00  | -8.47  | 40.53  | 5.69         | 33.78  | 34.47 | 183   | 186 Average | VERTICAL  |
| 3 | 5459.58 | 56.86  | 74.00  | -17.14 | 51.84  | 5.68         | 33.81  | 34.47 | 183   | 186 Peak    | VERTICAL  |
| 4 | 5575.99 | 124.15 |        |        | 118.83 | 5.70         | 34.11  | 34.49 | 183   | 186 Peak    | VERTICAL  |
| 5 | 5576.80 | 114.83 |        |        | 109.51 | 5.70         | 34.11  | 34.49 | 183   | 186 Average | VERTICAL  |
| 6 | 5778.72 | 59.74  | 68.20  | -8.46  | 53.71  | 5.83         | 34.73  | 34.53 | 183   | 186 Peak    | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | 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 | 5700.80 | 119.71 |        |       | 113.92 | 5.78         | 34.52  | 34.51 | 179   | 198 Peak    | HORIZONTAL |
| 2 | 5700.96 | 109.77 |        |       | 103.98 | 5.78         | 34.52  | 34.51 | 179   | 198 Average | HORIZONTAL |
| 3 | 5725.00 | 66.90  | 68.20  | -1.30 | 61.05  | 5.79         | 34.57  | 34.51 | 179   | 198 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                          |
|---------------|------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                                                          |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                                          |

### Channel 52

|   | 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 | 5120.10 | 45.63  | 54.00  | -8.37  | 41.04  | 5.85         | 33.21  | 34.47 | 190   | 165 Average | HORIZONTAL |
| 2 | 5145.58 | 57.45  | 74.00  | -16.55 | 52.81  | 5.84         | 33.27  | 34.47 | 190   | 165 Peak    | HORIZONTAL |
| 3 | 5251.83 | 113.67 |        |        | 108.91 | 5.78         | 33.45  | 34.47 | 190   | 165 Average | HORIZONTAL |
| 4 | 5252.79 | 123.53 |        |        | 118.77 | 5.78         | 33.45  | 34.47 | 190   | 165 Peak    | HORIZONTAL |
| 5 | 5353.75 | 47.03  | 54.00  | -6.97  | 42.14  | 5.73         | 33.63  | 34.47 | 190   | 165 Average | HORIZONTAL |
| 6 | 5354.23 | 59.14  | 74.00  | -14.86 | 54.25  | 5.73         | 33.63  | 34.47 | 190   | 165 Peak    | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | 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 | 5297.44 | 113.83 |        |        | 109.00 | 5.76         | 33.54  | 34.47 | 3     | 216 Average | VERTICAL  |
| 2 | 5298.08 | 122.96 |        |        | 118.13 | 5.76         | 33.54  | 34.47 | 3     | 216 Peak    | VERTICAL  |
| 3 | 5350.00 | 60.67  | 74.00  | -13.33 | 55.78  | 5.73         | 33.63  | 34.47 | 3     | 216 Peak    | VERTICAL  |
| 4 | 5350.00 | 49.47  | 54.00  | -4.53  | 44.58  | 5.73         | 33.63  | 34.47 | 3     | 216 Average | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | 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 | 5321.60 | 121.11 |        |       | 116.26 | 5.75         | 33.57  | 34.47 | 179   | 127 Peak    | HORIZONTAL |
| 2 | 5322.40 | 110.12 |        |       | 105.27 | 5.75         | 33.57  | 34.47 | 179   | 127 Average | HORIZONTAL |
| 3 | 5350.00 | 66.19  | 74.00  | -7.81 | 61.30  | 5.73         | 33.63  | 34.47 | 179   | 127 Peak    | HORIZONTAL |
| 4 | 5350.00 | 52.87  | 54.00  | -1.13 | 47.98  | 5.73         | 33.63  | 34.47 | 179   | 127 Average | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                                             |

#### Channel 100

|   | 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 | 5459.62 | 62.67  | 74.00  | -11.33 | 57.65  | 5.68         | 33.81  | 34.47 | 179   | 199 Peak    | HORIZONTAL |
| 2 | 5460.00 | 51.37  | 54.00  | -2.63  | 46.35  | 5.68         | 33.81  | 34.47 | 179   | 199 Average | HORIZONTAL |
| 3 | 5469.55 | 67.01  | 68.20  | -1.19  | 61.96  | 5.68         | 33.84  | 34.47 | 179   | 199 Peak    | HORIZONTAL |
| 4 | 5501.28 | 121.09 |        |        | 116.01 | 5.66         | 33.90  | 34.48 | 179   | 199 Peak    | HORIZONTAL |
| 5 | 5501.60 | 111.36 |        |        | 106.28 | 5.66         | 33.90  | 34.48 | 179   | 199 Average | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | 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 | 5426.96 | 57.93  | 74.00  | -16.07 | 52.95  | 5.70         | 33.75  | 34.47 | 179   | 205 Peak    | HORIZONTAL |
| 2 | 5433.37 | 45.45  | 54.00  | -8.55  | 40.45  | 5.69         | 33.78  | 34.47 | 179   | 205 Average | HORIZONTAL |
| 3 | 5465.61 | 56.30  | 68.20  | -11.90 | 51.25  | 5.68         | 33.84  | 34.47 | 179   | 205 Peak    | HORIZONTAL |
| 4 | 5582.40 | 114.69 |        |        | 109.31 | 5.71         | 34.16  | 34.49 | 179   | 205 Average | HORIZONTAL |
| 5 | 5583.21 | 124.67 |        |        | 119.29 | 5.71         | 34.16  | 34.49 | 179   | 205 Peak    | HORIZONTAL |
| 6 | 5737.85 | 58.50  | 68.20  | -9.70  | 52.60  | 5.80         | 34.62  | 34.52 | 179   | 205 Peak    | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | 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 | 5704.97 | 117.81 |        |       | 112.02 | 5.78         | 34.52  | 34.51 | 174   | 180 Peak    | VERTICAL  |
| 2 | 5705.45 | 107.17 |        |       | 101.38 | 5.78         | 34.52  | 34.51 | 174   | 180 Average | VERTICAL  |
| 3 | 5725.16 | 66.72  | 68.20  | -1.48 | 60.87  | 5.79         | 34.57  | 34.51 | 174   | 180 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                   |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                  |                |                                                                                   |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                                   |

#### Channel 54

|   | 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 | 5266.15 | 121.52 |        |       | 116.73 | 5.78         | 33.48  | 34.47 | 204   | 179 Peak    | VERTICAL  |
| 2 | 5266.64 | 111.95 |        |       | 107.16 | 5.78         | 33.48  | 34.47 | 204   | 179 Average | VERTICAL  |
| 3 | 5350.00 | 65.29  | 74.00  | -8.71 | 60.40  | 5.73         | 33.63  | 34.47 | 204   | 179 Peak    | VERTICAL  |
| 4 | 5350.00 | 52.57  | 54.00  | -1.43 | 47.68  | 5.73         | 33.63  | 34.47 | 204   | 179 Average | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | 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 | 5308.40 | 102.84 |        |       | 98.01  | 5.76         | 33.54  | 34.47 | 166   | 198 Average | VERTICAL  |
| 2 | 5308.72 | 112.27 |        |       | 107.44 | 5.76         | 33.54  | 34.47 | 166   | 198 Peak    | VERTICAL  |
| 3 | 5350.00 | 52.71  | 54.00  | -1.29 | 47.82  | 5.73         | 33.63  | 34.47 | 166   | 198 Average | VERTICAL  |
| 4 | 5350.39 | 64.43  | 74.00  | -9.57 | 59.54  | 5.73         | 33.63  | 34.47 | 166   | 198 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                                             |

#### Channel 102

|   | 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 | 5460.00 | 63.09  | 74.00  | -10.91 | 58.07  | 5.68         | 33.81  | 34.47 | 179   | 197 Peak    | HORIZONTAL |
| 2 | 5460.00 | 50.52  | 54.00  | -3.48  | 45.50  | 5.68         | 33.81  | 34.47 | 179   | 197 Average | HORIZONTAL |
| 3 | 5462.24 | 66.98  | 68.20  | -1.22  | 61.96  | 5.68         | 33.81  | 34.47 | 179   | 197 Peak    | HORIZONTAL |
| 4 | 5511.28 | 115.07 |        |        | 109.99 | 5.66         | 33.90  | 34.48 | 179   | 197 Peak    | HORIZONTAL |
| 5 | 5511.60 | 105.29 |        |        | 100.21 | 5.66         | 33.90  | 34.48 | 179   | 197 Average | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5510 MHz.

#### Channel 110

|   | 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 | 5456.25 | 65.50  | 74.00  | -8.50 | 60.48  | 5.68         | 33.81  | 34.47 | 176   | 184 Peak    | VERTICAL  |
| 2 | 5458.17 | 50.96  | 54.00  | -3.04 | 45.94  | 5.68         | 33.81  | 34.47 | 176   | 184 Average | VERTICAL  |
| 3 | 5470.00 | 66.83  | 68.20  | -1.37 | 61.78  | 5.68         | 33.84  | 34.47 | 176   | 184 Peak    | VERTICAL  |
| 4 | 5556.73 | 108.80 |        |       | 103.54 | 5.69         | 34.06  | 34.49 | 176   | 184 Average | VERTICAL  |
| 5 | 5557.21 | 119.04 |        |       | 113.78 | 5.69         | 34.06  | 34.49 | 176   | 184 Peak    | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5550 MHz.

#### Channel 134

|   | 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 | 5664.71 | 118.20 |        |       | 112.59 | 5.75         | 34.37  | 34.51 | 182   | 181 Peak    | VERTICAL  |
| 2 | 5664.71 | 107.41 |        |       | 101.80 | 5.75         | 34.37  | 34.51 | 182   | 181 Average | VERTICAL  |
| 3 | 5725.00 | 66.88  | 68.20  | -1.32 | 61.03  | 5.79         | 34.57  | 34.51 | 182   | 181 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5670 MHz.



|               |                                                |                |                                                                                            |
|---------------|------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                  |                |                                                                                            |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                                            |

### Channel 58

|   | 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 | 5098.49 | 56.06  | 74.00  | -17.94 | 51.49  | 5.86         | 33.18  | 34.47 | 344   | 216 Peak    | VERTICAL  |
| 2 | 5119.33 | 44.67  | 54.00  | -9.33  | 40.08  | 5.85         | 33.21  | 34.47 | 344   | 216 Average | VERTICAL  |
| 3 | 5287.60 | 97.59  |        |        | 92.78  | 5.77         | 33.51  | 34.47 | 344   | 216 Average | VERTICAL  |
| 4 | 5308.43 | 108.71 |        |        | 103.88 | 5.76         | 33.54  | 34.47 | 344   | 216 Peak    | VERTICAL  |
| 5 | 5350.00 | 52.85  | 54.00  | -1.15  | 47.96  | 5.73         | 33.63  | 34.47 | 344   | 216 Average | VERTICAL  |
| 6 | 5355.71 | 66.33  | 74.00  | -7.67  | 61.44  | 5.73         | 33.63  | 34.47 | 344   | 216 Peak    | VERTICAL  |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | 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 | 5457.08 | 66.21  | 74.00  | -7.79  | 61.19  | 5.68         | 33.81  | 34.47 | 353   | 194 Peak    | VERTICAL  |
| 2 | 5457.89 | 52.98  | 54.00  | -1.02  | 47.96  | 5.68         | 33.81  | 34.47 | 353   | 194 Average | VERTICAL  |
| 3 | 5465.99 | 48.63  | 54.00  | -5.37  | 43.58  | 5.68         | 33.84  | 34.47 | 353   | 194 Average | VERTICAL  |
| 4 | 5470.00 | 60.30  | 74.00  | -13.70 | 55.25  | 5.68         | 33.84  | 34.47 | 353   | 194 Peak    | VERTICAL  |
| 5 | 5517.18 | 95.72  |        |        | 90.58  | 5.67         | 33.95  | 34.48 | 353   | 194 Average | VERTICAL  |
| 6 | 5557.24 | 106.58 |        |        | 101.32 | 5.69         | 34.06  | 34.49 | 353   | 194 Peak    | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | 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 | 5453.75 | 66.00  | 74.00  | -8.00  | 60.98  | 5.68         | 33.81  | 34.47 | 13    | 142 Peak    | VERTICAL  |
| 2 | 5454.55 | 52.31  | 54.00  | -1.69  | 47.29  | 5.68         | 33.81  | 34.47 | 13    | 142 Average | VERTICAL  |
| 3 | 5470.00 | 62.93  | 74.00  | -11.07 | 57.88  | 5.68         | 33.84  | 34.47 | 13    | 142 Peak    | VERTICAL  |
| 4 | 5470.00 | 50.36  | 54.00  | -3.64  | 45.31  | 5.68         | 33.84  | 34.47 | 13    | 142 Average | VERTICAL  |
| 5 | 5594.78 | 103.17 |        |        | 97.79  | 5.71         | 34.16  | 34.49 | 13    | 142 Average | VERTICAL  |
| 6 | 5595.58 | 113.13 |        |        | 107.75 | 5.71         | 34.16  | 34.49 | 13    | 142 Peak    | VERTICAL  |
| 7 | 5735.80 | 64.01  | 74.00  | -9.99  | 58.11  | 5.80         | 34.62  | 34.52 | 13    | 142 Peak    | VERTICAL  |
| 8 | 5735.80 | 52.69  | 54.00  | -1.31  | 46.79  | 5.80         | 34.62  | 34.52 | 13    | 142 Average | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                                |                |                                                               |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                               |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preampl | T/Pos | A/Pos | Remark      | Pol/Phase  |
|---|---------|--------|--------|-------|--------|--------------|---------|-------|-------|-------------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m    | dB    | deg   | cm          |            |
| 1 | 5720.80 | 122.80 |        |       | 116.95 | 5.79         | 34.57   | 34.51 | 178   | 187 Peak    | HORIZONTAL |
| 2 | 5720.80 | 113.53 |        |       | 107.68 | 5.79         | 34.57   | 34.51 | 178   | 187 Average | HORIZONTAL |
| 3 | 5889.07 | 58.89  | 68.20  | -9.31 | 52.45  | 5.90         | 35.09   | 34.55 | 178   | 187 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 29, 2015                                  |                |                                                                             |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                             |

#### Channel 144

|   | 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 | 5711.99 | 121.16 |        |       | 115.37 | 5.78         | 34.52  | 34.51 | 171   | 183 Peak    | HORIZONTAL |
| 2 | 5711.99 | 112.54 |        |       | 106.75 | 5.78         | 34.52  | 34.51 | 171   | 183 Average | HORIZONTAL |
| 3 | 5957.98 | 58.95  | 68.20  | -9.25 | 52.27  | 5.94         | 35.30  | 34.56 | 171   | 183 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                  |                |                                                                             |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                             |

#### Channel 142

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preampl | T/Pos | A/Pos | Remark      | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|---------|-------|-------|-------------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m    | dB    | deg   | cm          |           |
| 1 | 5714.81 | 111.87 |        |       | 106.08 | 5.78         | 34.52   | 34.51 | 173   | 190 Average | VERTICAL  |
| 2 | 5715.61 | 121.56 |        |       | 115.77 | 5.78         | 34.52   | 34.51 | 173   | 190 Peak    | VERTICAL  |
| 3 | 5857.44 | 59.25  | 68.20  | -8.95 | 52.92  | 5.88         | 34.99   | 34.54 | 173   | 190 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 30, 2015                                  |                |                                                                             |
| Test Mode     | Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi |                |                                                                             |

### Channel 138

|   | 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 | 5696.41 | 115.99 |        |       | 110.26 | 5.77  | 34.47   | 34.51  | 12    | 161   | Peak    | VERTICAL  |
| 2 | 5696.41 | 104.91 |        |       | 99.18  | 5.77  | 34.47   | 34.51  | 12    | 161   | Average | VERTICAL  |
| 3 | 5855.06 | 67.19  | 68.20  | -1.01 | 60.86  | 5.88  | 34.99   | 34.54  | 12    | 161   | Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                |                |                                                                      |
|---------------|------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                      |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                      |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5127.00 | 59.13  | 74.00  | -14.87 | 54.00  | 6.12         | 34.01  | 35.00  | Peak    | 114   | 195 VERTICAL |
| 2 | 5150.00 | 45.35  | 54.00  | -8.65  | 40.18  | 6.13         | 34.04  | 35.00  | Average | 114   | 195 VERTICAL |
| 3 | 5256.50 | 106.59 |        |        | 101.19 | 6.20         | 34.20  | 35.00  | Average | 114   | 195 VERTICAL |
| 4 | 5257.00 | 118.87 |        |        | 113.47 | 6.20         | 34.20  | 35.00  | Peak    | 114   | 195 VERTICAL |
| 5 | 5350.00 | 46.30  | 54.00  | -7.70  | 40.68  | 6.26         | 34.36  | 35.00  | Average | 114   | 195 VERTICAL |
| 6 | 5350.50 | 59.24  | 74.00  | -14.76 | 53.62  | 6.26         | 34.36  | 35.00  | Peak    | 114   | 195 VERTICAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5301.00 | 104.47 |        |       | 98.96  | 6.23         | 34.28  | 35.00  | Average | 100   | 181 VERTICAL |
| 2 | 5307.33 | 117.08 |        |       | 111.57 | 6.23         | 34.28  | 35.00  | Peak    | 100   | 181 VERTICAL |
| 3 | 5350.00 | 52.41  | 54.00  | -1.59 | 46.79  | 6.26         | 34.36  | 35.00  | Average | 100   | 181 VERTICAL |
| 4 | 5354.33 | 65.76  | 74.00  | -8.24 | 60.14  | 6.26         | 34.36  | 35.00  | Peak    | 100   | 181 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5316.67 | 104.91 |        |       | 99.36  | 6.24         | 34.31  | 35.00  | Average | 245   | 174 HORIZONTAL |
| 2 | 5316.67 | 117.39 |        |       | 111.84 | 6.24         | 34.31  | 35.00  | Peak    | 245   | 174 HORIZONTAL |
| 3 | 5350.00 | 52.96  | 54.00  | -1.04 | 47.34  | 6.26         | 34.36  | 35.00  | Average | 245   | 174 HORIZONTAL |
| 4 | 5350.00 | 67.65  | 74.00  | -6.35 | 62.03  | 6.26         | 34.36  | 35.00  | Peak    | 245   | 174 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                         |
|---------------|------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                         |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5460.00 | 49.72  | 54.00 | -4.28 | 43.86  | 6.33         | 34.52  | 34.99  | Average | 100   | 183 VERTICAL |
| 2 | 5460.00 | 64.01  | 74.00 | -9.99 | 58.15  | 6.33         | 34.52  | 34.99  | Peak    | 100   | 183 VERTICAL |
| 3 | 5467.00 | 67.83  | 74.00 | -6.17 | 61.93  | 6.34         | 34.55  | 34.99  | Peak    | 100   | 183 VERTICAL |
| 4 | 5467.67 | 52.32  | 54.00 | -1.68 | 46.42  | 6.34         | 34.55  | 34.99  | Average | 100   | 183 VERTICAL |
| 5 | 5501.00 | 103.92 |       |       | 97.96  | 6.36         | 34.60  | 35.00  | Average | 100   | 183 VERTICAL |
| 6 | 5501.00 | 115.83 |       |       | 109.87 | 6.36         | 34.60  | 35.00  | Peak    | 100   | 183 VERTICAL |

Item 5, 6 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |       | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5456.00 | 58.30  | 74.00 | -15.70 | 52.44  | 6.33         | 34.52  | 34.99  | Peak    | 164   | 180 VERTICAL |
| 2 | 5460.00 | 46.01  | 54.00 | -7.99  | 40.15  | 6.33         | 34.52  | 34.99  | Average | 164   | 180 VERTICAL |
| 3 | 5466.00 | 58.47  | 74.00 | -15.53 | 52.57  | 6.34         | 34.55  | 34.99  | Peak    | 164   | 180 VERTICAL |
| 4 | 5470.00 | 46.09  | 54.00 | -7.91  | 40.19  | 6.34         | 34.55  | 34.99  | Average | 164   | 180 VERTICAL |
| 5 | 5573.33 | 107.90 |       |        | 101.91 | 6.39         | 34.61  | 35.01  | Average | 164   | 180 VERTICAL |
| 6 | 5573.33 | 119.63 |       |        | 113.64 | 6.39         | 34.61  | 35.01  | Peak    | 164   | 180 VERTICAL |
| 7 | 5725.00 | 45.91  | 54.00 | -8.09  | 39.85  | 6.45         | 34.64  | 35.03  | Average | 164   | 180 VERTICAL |
| 8 | 5727.00 | 59.12  | 74.00 | -14.88 | 53.06  | 6.45         | 34.64  | 35.03  | Peak    | 164   | 180 VERTICAL |

Item 5, 6 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5693.00 | 114.89 |       |       | 108.85 | 6.43         | 34.64  | 35.03  | Peak    | 114   | 180 VERTICAL |
| 2 | 5693.33 | 102.72 |       |       | 96.68  | 6.43         | 34.64  | 35.03  | Average | 114   | 180 VERTICAL |
| 3 | 5727.67 | 52.87  | 54.00 | -1.13 | 46.81  | 6.45         | 34.64  | 35.03  | Average | 114   | 180 VERTICAL |
| 4 | 5727.67 | 68.28  | 74.00 | -5.72 | 62.22  | 6.45         | 34.64  | 35.03  | Peak    | 114   | 180 VERTICAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.



|               |                                                |                |                                                                                          |
|---------------|------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                                          |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                                          |

### Channel 52

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Factor | Preamp<br>Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|--------|------------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m   | dB               |         | cm    | deg   |            |
| 1 | 5125.00 | 58.00  | 74.00         | -16.00        | 52.87         | 6.12                 | 34.01  | 35.00            | Peak    | 247   | 174   | HORIZONTAL |
| 2 | 5150.00 | 45.19  | 54.00         | -8.81         | 40.02         | 6.13                 | 34.04  | 35.00            | Average | 247   | 174   | HORIZONTAL |
| 3 | 5257.00 | 110.16 |               |               | 104.76        | 6.20                 | 34.20  | 35.00            | Average | 247   | 174   | HORIZONTAL |
| 4 | 5257.00 | 120.43 |               |               | 115.03        | 6.20                 | 34.20  | 35.00            | Peak    | 247   | 174   | HORIZONTAL |
| 5 | 5350.00 | 46.30  | 54.00         | -7.70         | 40.68         | 6.26                 | 34.36  | 35.00            | Average | 247   | 174   | HORIZONTAL |
| 6 | 5357.00 | 57.65  | 74.00         | -16.35        | 52.03         | 6.26                 | 34.36  | 35.00            | Peak    | 247   | 174   | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Factor | Preamp<br>Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|--------|------------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m   | dB               |         | cm    | deg   |            |
| 1 | 5296.00 | 119.36 |               |               | 113.85        | 6.23                 | 34.28  | 35.00            | Peak    | 242   | 174   | HORIZONTAL |
| 2 | 5297.33 | 109.59 |               |               | 104.08        | 6.23                 | 34.28  | 35.00            | Average | 242   | 174   | HORIZONTAL |
| 3 | 5350.00 | 52.62  | 54.00         | -1.38         | 47.00         | 6.26                 | 34.36  | 35.00            | Average | 242   | 174   | HORIZONTAL |
| 4 | 5350.00 | 66.88  | 74.00         | -7.12         | 61.26         | 6.26                 | 34.36  | 35.00            | Peak    | 242   | 174   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Factor | Preamp<br>Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|--------|------------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m   | dB               |         | cm    | deg   |            |
| 1 | 5316.83 | 116.66 |               |               | 111.11        | 6.24                 | 34.31  | 35.00            | Peak    | 248   | 173   | HORIZONTAL |
| 2 | 5317.33 | 106.08 |               |               | 100.53        | 6.24                 | 34.31  | 35.00            | Average | 248   | 173   | HORIZONTAL |
| 3 | 5350.00 | 52.61  | 54.00         | -1.39         | 46.99         | 6.26                 | 34.36  | 35.00            | Average | 248   | 173   | HORIZONTAL |
| 4 | 5350.33 | 67.12  | 74.00         | -6.88         | 61.50         | 6.26                 | 34.36  | 35.00            | Peak    | 248   | 173   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                                             |

#### Channel 100

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5455.67 | 66.79  | 74.00      | -7.21      | 60.93      | 6.33              | 34.52  | 34.99         | Peak    | 232   | 170   | HORIZONTAL |
| 2 | 5457.33 | 52.85  | 54.00      | -1.15      | 46.99      | 6.33              | 34.52  | 34.99         | Average | 232   | 170   | HORIZONTAL |
| 3 | 5470.00 | 65.33  | 68.20      | -2.87      | 59.43      | 6.34              | 34.55  | 34.99         | Peak    | 232   | 170   | HORIZONTAL |
| 4 | 5496.33 | 116.64 |            |            | 110.71     | 6.35              | 34.57  | 34.99         | Peak    | 232   | 170   | HORIZONTAL |
| 5 | 5497.33 | 106.31 |            |            | 100.34     | 6.36              | 34.60  | 34.99         | Average | 232   | 170   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5408.00 | 59.05  | 74.00      | -14.95     | 53.31      | 6.29              | 34.44  | 34.99         | Peak    | 261   | 171   | HORIZONTAL |
| 2 | 5428.00 | 46.67  | 54.00      | -7.33      | 40.88      | 6.31              | 34.47  | 34.99         | Average | 261   | 171   | HORIZONTAL |
| 3 | 5466.00 | 59.42  | 68.20      | -8.78      | 53.52      | 6.34              | 34.55  | 34.99         | Peak    | 261   | 171   | HORIZONTAL |
| 4 | 5574.67 | 108.12 |            |            | 102.13     | 6.39              | 34.61  | 35.01         | Average | 261   | 171   | HORIZONTAL |
| 5 | 5576.00 | 118.22 |            |            | 112.23     | 6.39              | 34.61  | 35.01         | Peak    | 261   | 171   | HORIZONTAL |
| 6 | 5757.33 | 59.08  | 68.20      | -9.12      | 53.02      | 6.46              | 34.65  | 35.05         | Peak    | 261   | 171   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5693.17 | 102.49 |            |            | 96.45      | 6.43              | 34.64  | 35.03         | Average | 106   | 180   | VERTICAL  |
| 2 | 5693.67 | 113.89 |            |            | 107.85     | 6.43              | 34.64  | 35.03         | Peak    | 106   | 180   | VERTICAL  |
| 3 | 5725.17 | 66.85  | 68.20      | -1.35      | 60.79      | 6.45              | 34.64  | 35.03         | Peak    | 106   | 180   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                |                |                                                                                   |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                                   |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                                   |

#### Channel 54

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |       | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5265.83 | 116.62 |       |        | 111.18 | 6.21         | 34.23  | 35.00  | Peak    | 246   | 173 HORIZONTAL |
| 2 | 5266.67 | 106.24 |       |        | 100.80 | 6.21         | 34.23  | 35.00  | Average | 246   | 173 HORIZONTAL |
| 3 | 5350.00 | 52.17  | 54.00 | -1.83  | 46.55  | 6.26         | 34.36  | 35.00  | Average | 246   | 173 HORIZONTAL |
| 4 | 5350.00 | 63.42  | 74.00 | -10.58 | 57.80  | 6.26         | 34.36  | 35.00  | Peak    | 246   | 173 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |            |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg        |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase  |
| 1 | 5303.40 | 107.54 |       |       | 102.03 | 6.23         | 34.28  | 35.00  | Peak    | 184   | 7 VERTICAL |
| 2 | 5304.00 | 96.92  |       |       | 91.41  | 6.23         | 34.28  | 35.00  | Average | 184   | 7 VERTICAL |
| 3 | 5350.00 | 52.70  | 54.00 | -1.30 | 47.08  | 6.26         | 34.36  | 35.00  | Average | 184   | 7 VERTICAL |
| 4 | 5352.00 | 64.53  | 74.00 | -9.47 | 58.91  | 6.26         | 34.36  | 35.00  | Peak    | 184   | 7 VERTICAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                |                |                                                                                             |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                                             |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5446.00 | 47.63  | 54.00      | -6.37      | 41.77      | 6.33              | 34.52  | 34.99         | Average | 250   | 167   | HORIZONTAL |
| 2 | 5447.00 | 59.34  | 74.00      | -14.66     | 53.48      | 6.33              | 34.52  | 34.99         | Peak    | 250   | 167   | HORIZONTAL |
| 3 | 5468.50 | 66.92  | 68.20      | -1.28      | 61.02      | 6.34              | 34.55  | 34.99         | Peak    | 250   | 167   | HORIZONTAL |
| 4 | 5506.00 | 107.17 |            |            | 101.21     | 6.36              | 34.60  | 35.00         | Peak    | 250   | 167   | HORIZONTAL |
| 5 | 5507.00 | 96.99  |            |            | 91.03      | 6.36              | 34.60  | 35.00         | Average | 250   | 167   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5444.00 | 63.62  | 74.00      | -10.38     | 57.80      | 6.32              | 34.49  | 34.99         | Peak    | 231   | 171   | HORIZONTAL |
| 2 | 5446.00 | 51.72  | 54.00      | -2.28      | 45.86      | 6.33              | 34.52  | 34.99         | Average | 231   | 171   | HORIZONTAL |
| 3 | 5466.00 | 64.33  | 68.20      | -3.87      | 58.43      | 6.34              | 34.55  | 34.99         | Peak    | 231   | 171   | HORIZONTAL |
| 4 | 5546.67 | 105.40 |            |            | 99.42      | 6.37              | 34.61  | 35.00         | Average | 231   | 171   | HORIZONTAL |
| 5 | 5547.33 | 115.24 |            |            | 109.26     | 6.37              | 34.61  | 35.00         | Peak    | 231   | 171   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |            |
| 1 | 5663.50 | 101.23 |            |            | 95.21      | 6.42              | 34.63  | 35.03         | Average | 250   | 168   | HORIZONTAL |
| 2 | 5665.00 | 111.78 |            |            | 105.76     | 6.42              | 34.63  | 35.03         | Peak    | 250   | 168   | HORIZONTAL |
| 3 | 5725.50 | 66.61  | 68.20      | -1.59      | 60.55      | 6.45              | 34.64  | 35.03         | Peak    | 250   | 168   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                |                |                                                                                            |
|---------------|------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                                            |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | Remark | A/Pos   | T/Pos | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|----------------------|------------------|--------|---------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m             | dB     |         | cm    | deg       |            |
| 1 | 5147.50 | 58.41  | 74.00         | -15.59        | 53.24         | 6.13                 | 34.04            | 35.00  | Peak    | 252   | 173       | HORIZONTAL |
| 2 | 5150.00 | 45.54  | 54.00         | -8.46         | 40.37         | 6.13                 | 34.04            | 35.00  | Average | 252   | 173       | HORIZONTAL |
| 3 | 5265.83 | 94.63  |               |               | 89.19         | 6.21                 | 34.23            | 35.00  | Average | 252   | 173       | HORIZONTAL |
| 4 | 5266.67 | 105.80 |               |               | 100.36        | 6.21                 | 34.23            | 35.00  | Peak    | 252   | 173       | HORIZONTAL |
| 5 | 5350.00 | 52.62  | 54.00         | -1.38         | 47.00         | 6.26                 | 34.36            | 35.00  | Average | 252   | 173       | HORIZONTAL |
| 6 | 5369.17 | 64.44  | 74.00         | -9.56         | 58.78         | 6.27                 | 34.39            | 35.00  | Peak    | 252   | 173       | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss Factor | Preamp<br>Factor | Remark | A/Pos   | T/Pos | Pol/Phase |            |
|---|---------|--------|---------------|---------------|---------------|-----------------------------|------------------|--------|---------|-------|-----------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                          | dB/m             | dB     |         | cm    | deg       |            |
| 1 | 5445.00 | 52.69  | 54.00         | -1.31         | 46.87         | 6.32                        | 34.49            | 34.99  | Average | 248   | 170       | HORIZONTAL |
| 2 | 5446.67 | 65.25  | 74.00         | -8.75         | 59.39         | 6.33                        | 34.52            | 34.99  | Peak    | 248   | 170       | HORIZONTAL |
| 3 | 5465.83 | 63.18  | 68.20         | -5.02         | 57.28         | 6.34                        | 34.55            | 34.99  | Peak    | 248   | 170       | HORIZONTAL |
| 4 | 5526.67 | 91.75  |               |               | 85.78         | 6.37                        | 34.60            | 35.00  | Average | 248   | 170       | HORIZONTAL |
| 5 | 5546.67 | 102.24 |               |               | 96.26         | 6.37                        | 34.61            | 35.00  | Peak    | 248   | 170       | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | Freq    | Level  | Limit<br>Line | Over<br>Limit | Read<br>Level | CableAntenna<br>Loss | Preamp<br>Factor | Preamp<br>Factor | Remark  | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|---------------|---------------|---------------|----------------------|------------------|------------------|---------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m        | dB            | dBuV          | dB                   | dB/m             | dB               |         | cm    | deg   |            |
| 1 | 5455.83 | 50.99  | 54.00         | -3.01         | 45.13         | 6.33                 | 34.52            | 34.99            | Average | 241   | 157   | HORIZONTAL |
| 2 | 5455.83 | 65.60  | 74.00         | -8.40         | 59.74         | 6.33                 | 34.52            | 34.99            | Peak    | 241   | 157   | HORIZONTAL |
| 3 | 5470.00 | 62.22  | 68.20         | -5.98         | 56.32         | 6.34                 | 34.55            | 34.99            | Peak    | 241   | 157   | HORIZONTAL |
| 4 | 5595.83 | 108.37 |               |               | 102.37        | 6.39                 | 34.62            | 35.01            | Peak    | 241   | 157   | HORIZONTAL |
| 5 | 5615.83 | 97.44  |               |               | 91.42         | 6.41                 | 34.62            | 35.01            | Average | 241   | 157   | HORIZONTAL |
| 6 | 5735.83 | 67.04  | 68.20         | -1.16         | 60.98         | 6.45                 | 34.65            | 35.04            | Peak    | 241   | 157   | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                                |                |                                                               |
|---------------|------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                               |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase      |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
| 1 | 5715.00 | 106.70 |        |       | 100.65 | 6.44         | 34.64  | 35.03  | Average | 253   | 168 HORIZONTAL |
| 2 | 5715.00 | 118.54 |        |       | 112.49 | 6.44         | 34.64  | 35.03  | Peak    | 253   | 168 HORIZONTAL |
| 3 | 5852.00 | 58.64  | 68.20  | -9.56 | 52.54  | 6.49         | 34.67  | 35.06  | Peak    | 253   | 168 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                             |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5712.67 | 106.16 |        |       | 100.11 | 6.44         | 34.64  | 35.03  | Average | 103   | 178 VERTICAL |
| 2 | 5714.00 | 117.08 |        |       | 111.03 | 6.44         | 34.64  | 35.03  | Peak    | 103   | 178 VERTICAL |
| 3 | 5868.00 | 59.25  | 68.20  | -8.95 | 53.15  | 6.50         | 34.67  | 35.07  | Peak    | 103   | 178 VERTICAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.



|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                             |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                             |

#### Channel 142

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase      |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |                |
| 1 | 5704.17 | 104.82 |        |       | 98.77  | 6.44         | 34.64  | 35.03 | Average | 256   | 168 HORIZONTAL |
| 2 | 5705.00 | 115.46 |        |       | 109.41 | 6.44         | 34.64  | 35.03 | Peak    | 256   | 168 HORIZONTAL |
| 3 | 5861.00 | 59.26  | 68.20  | -8.94 | 53.16  | 6.50         | 34.67  | 35.07 | Peak    | 256   | 168 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                                |                |                                                                             |
|---------------|------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                           | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                      | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 31, 2015                                  |                |                                                                             |
| Test Mode     | Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5701.67 | 98.75  |        |       | 92.70  | 6.44         | 34.64  | 35.03  | Average | 102   | 174 VERTICAL |
| 2 | 5702.50 | 109.70 |        |       | 103.65 | 6.44         | 34.64  | 35.03  | Peak    | 102   | 174 VERTICAL |
| 3 | 5855.00 | 66.94  | 68.20  | -1.26 | 60.83  | 6.50         | 34.67  | 35.06  | Peak    | 102   | 174 VERTICAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                              |                |                                                                      |
|---------------|----------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                      |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                      |

#### Channel 52

|   | 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 | 5134.60 | 61.46  | 74.00  | -12.54 | 56.85  | 5.84         | 33.24  | 34.47 | 358   | 189 Peak    | HORIZONTAL |
| 2 | 5137.00 | 48.71  | 54.00  | -5.29  | 44.10  | 5.84         | 33.24  | 34.47 | 358   | 189 Average | HORIZONTAL |
| 3 | 5263.00 | 124.99 |        |        | 120.20 | 5.78         | 33.48  | 34.47 | 358   | 189 Peak    | HORIZONTAL |
| 4 | 5263.00 | 114.68 |        |        | 109.89 | 5.78         | 33.48  | 34.47 | 358   | 189 Average | HORIZONTAL |
| 5 | 5363.20 | 49.90  | 54.00  | -4.10  | 44.98  | 5.73         | 33.66  | 34.47 | 358   | 189 Average | HORIZONTAL |
| 6 | 5392.00 | 61.88  | 74.00  | -12.12 | 56.94  | 5.72         | 33.69  | 34.47 | 358   | 189 Peak    | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

#### Channel 60

|   | 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 | 5292.80 | 124.64 |        |       | 119.81 | 5.76         | 33.54  | 34.47 | 358   | 187 Peak    | VERTICAL  |
| 2 | 5293.20 | 114.82 |        |       | 109.99 | 5.76         | 33.54  | 34.47 | 358   | 187 Average | VERTICAL  |
| 3 | 5350.00 | 64.20  | 74.00  | -9.80 | 59.31  | 5.73         | 33.63  | 34.47 | 358   | 187 Peak    | VERTICAL  |
| 4 | 5350.00 | 52.59  | 54.00  | -1.41 | 47.70  | 5.73         | 33.63  | 34.47 | 358   | 187 Average | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5300 MHz.

#### Channel 64

|   | 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 | 5312.80 | 119.25 |        |        | 114.40 | 5.75         | 33.57  | 34.47 | 357   | 188 Peak    | VERTICAL  |
| 2 | 5313.20 | 109.48 |        |        | 104.63 | 5.75         | 33.57  | 34.47 | 357   | 188 Average | VERTICAL  |
| 3 | 5350.00 | 51.81  | 54.00  | -2.19  | 46.92  | 5.73         | 33.63  | 34.47 | 357   | 188 Average | VERTICAL  |
| 4 | 5350.80 | 63.32  | 74.00  | -10.68 | 58.43  | 5.73         | 33.63  | 34.47 | 357   | 188 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                              |                |                                                                         |
|---------------|----------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                         |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                         |

#### Channel 100

|   | 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 | 5438.80 | 63.12  | 74.00  | -10.88 | 58.12  | 5.69         | 33.78  | 34.47 | 356   | 177 Peak    | VERTICAL  |
| 2 | 5447.60 | 50.22  | 54.00  | -3.78  | 45.20  | 5.68         | 33.81  | 34.47 | 356   | 177 Average | VERTICAL  |
| 3 | 5470.00 | 66.25  | 68.20  | -1.95  | 61.20  | 5.68         | 33.84  | 34.47 | 356   | 177 Peak    | VERTICAL  |
| 4 | 5492.80 | 109.67 |        |        | 104.60 | 5.67         | 33.87  | 34.47 | 356   | 177 Average | VERTICAL  |
| 5 | 5493.20 | 119.78 |        |        | 114.71 | 5.67         | 33.87  | 34.47 | 356   | 177 Peak    | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | 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 | 5455.80 | 49.29  | 54.00  | -4.71  | 44.27  | 5.68         | 33.81  | 34.47 | 356   | 184 Average | VERTICAL  |
| 2 | 5459.40 | 60.99  | 74.00  | -13.01 | 55.97  | 5.68         | 33.81  | 34.47 | 356   | 184 Peak    | VERTICAL  |
| 3 | 5461.80 | 60.06  | 68.20  | -8.14  | 55.04  | 5.68         | 33.81  | 34.47 | 356   | 184 Peak    | VERTICAL  |
| 4 | 5572.80 | 113.84 |        |        | 108.52 | 5.70         | 34.11  | 34.49 | 356   | 184 Average | VERTICAL  |
| 5 | 5573.40 | 123.60 |        |        | 118.28 | 5.70         | 34.11  | 34.49 | 356   | 184 Peak    | VERTICAL  |
| 6 | 5725.00 | 62.36  | 68.20  | -5.84  | 56.51  | 5.79         | 34.57  | 34.51 | 356   | 184 Peak    | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | 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 | 5702.00 | 118.58 |        |       | 112.79 | 5.78         | 34.52  | 34.51 | 353   | 185 Peak    | HORIZONTAL |
| 2 | 5702.20 | 108.03 |        |       | 102.24 | 5.78         | 34.52  | 34.51 | 353   | 185 Average | HORIZONTAL |
| 3 | 5726.20 | 67.08  | 68.20  | -1.12 | 61.23  | 5.79         | 34.57  | 34.51 | 353   | 185 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                              |                |                                                                                          |
|---------------|----------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                                          |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                          |

### Channel 52

|   | 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 | 5122.60 | 49.36  | 54.00  | -4.64  | 44.75  | 5.84         | 33.24  | 34.47 | 357   | 187 Average | HORIZONTAL |
| 2 | 5128.60 | 62.04  | 74.00  | -11.96 | 57.43  | 5.84         | 33.24  | 34.47 | 357   | 187 Peak    | HORIZONTAL |
| 3 | 5263.00 | 125.06 |        |        | 120.27 | 5.78         | 33.48  | 34.47 | 357   | 187 Peak    | HORIZONTAL |
| 4 | 5263.00 | 115.48 |        |        | 110.69 | 5.78         | 33.48  | 34.47 | 357   | 187 Average | HORIZONTAL |
| 5 | 5360.20 | 62.09  | 74.00  | -11.91 | 57.20  | 5.73         | 33.63  | 34.47 | 357   | 187 Peak    | HORIZONTAL |
| 6 | 5360.80 | 50.40  | 54.00  | -3.60  | 45.48  | 5.73         | 33.66  | 34.47 | 357   | 187 Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | 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 | 5293.20 | 114.47 |        |       | 109.64 | 5.76         | 33.54  | 34.47 | 356   | 192 Average | VERTICAL  |
| 2 | 5294.00 | 124.36 |        |       | 119.53 | 5.76         | 33.54  | 34.47 | 356   | 192 Peak    | VERTICAL  |
| 3 | 5350.80 | 52.94  | 54.00  | -1.06 | 48.05  | 5.73         | 33.63  | 34.47 | 356   | 192 Average | VERTICAL  |
| 4 | 5351.20 | 64.62  | 74.00  | -9.38 | 59.73  | 5.73         | 33.63  | 34.47 | 356   | 192 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | 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 | 5313.20 | 120.27 |        |       | 115.42 | 5.75         | 33.57  | 34.47 | 1     | 192 Peak    | VERTICAL  |
| 2 | 5313.20 | 109.78 |        |       | 104.93 | 5.75         | 33.57  | 34.47 | 1     | 192 Average | VERTICAL  |
| 3 | 5350.80 | 64.13  | 74.00  | -9.87 | 59.24  | 5.73         | 33.63  | 34.47 | 1     | 192 Peak    | VERTICAL  |
| 4 | 5351.60 | 52.71  | 54.00  | -1.29 | 47.82  | 5.73         | 33.63  | 34.47 | 1     | 192 Average | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                              |                |                                                                                             |
|---------------|----------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                                             |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                             |

#### Channel 100

|   | 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 | 5445.20 | 62.82  | 74.00  | -11.18 | 57.82  | 5.69         | 33.78  | 34.47 | 353   | 188 Peak    | VERTICAL  |
| 2 | 5452.80 | 50.33  | 54.00  | -3.67  | 45.31  | 5.68         | 33.81  | 34.47 | 353   | 188 Average | VERTICAL  |
| 3 | 5468.40 | 65.41  | 74.00  | -8.59  | 60.36  | 5.68         | 33.84  | 34.47 | 353   | 188 Peak    | VERTICAL  |
| 4 | 5470.00 | 52.74  | 54.00  | -1.26  | 47.69  | 5.68         | 33.84  | 34.47 | 353   | 188 Average | VERTICAL  |
| 5 | 5493.20 | 108.98 |        |        | 103.91 | 5.67         | 33.87  | 34.47 | 353   | 188 Average | VERTICAL  |
| 6 | 5493.60 | 120.63 |        |        | 115.56 | 5.67         | 33.87  | 34.47 | 353   | 188 Peak    | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | 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 | 5455.20 | 62.77  | 74.00  | -11.23 | 57.75  | 5.68         | 33.81  | 34.47 | 357   | 175 Peak    | HORIZONTAL |
| 2 | 5460.00 | 49.60  | 54.00  | -4.40  | 44.58  | 5.68         | 33.81  | 34.47 | 357   | 175 Average | HORIZONTAL |
| 3 | 5465.20 | 61.08  | 74.00  | -12.92 | 56.03  | 5.68         | 33.84  | 34.47 | 357   | 175 Peak    | HORIZONTAL |
| 4 | 5470.00 | 49.66  | 54.00  | -4.34  | 44.61  | 5.68         | 33.84  | 34.47 | 357   | 175 Average | HORIZONTAL |
| 5 | 5583.20 | 125.60 |        |        | 120.22 | 5.71         | 34.16  | 34.49 | 357   | 175 Peak    | HORIZONTAL |
| 6 | 5583.20 | 115.33 |        |        | 109.95 | 5.71         | 34.16  | 34.49 | 357   | 175 Average | HORIZONTAL |
| 7 | 5725.00 | 49.97  | 54.00  | -4.03  | 44.12  | 5.79         | 34.57  | 34.51 | 357   | 175 Average | HORIZONTAL |
| 8 | 5734.60 | 63.30  | 74.00  | -10.70 | 57.40  | 5.80         | 34.62  | 34.52 | 357   | 175 Peak    | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | 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 | 5701.60 | 118.29 |        |       | 112.50 | 5.78         | 34.52  | 34.51 | 356   | 177 Peak    | HORIZONTAL |
| 2 | 5701.60 | 107.13 |        |       | 101.34 | 5.78         | 34.52  | 34.51 | 356   | 177 Average | HORIZONTAL |
| 3 | 5725.60 | 67.19  | 68.20  | -1.01 | 61.34  | 5.79         | 34.57  | 34.51 | 356   | 177 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                              |                |                                                                                   |
|---------------|----------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                                   |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                   |

#### Channel 54

|   | 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 | 5262.20 | 121.06 |        |       | 116.27 | 5.78         | 33.48  | 34.47 | 357   | 187 Peak    | VERTICAL  |
| 2 | 5262.80 | 110.85 |        |       | 106.06 | 5.78         | 33.48  | 34.47 | 357   | 187 Average | VERTICAL  |
| 3 | 5350.00 | 52.74  | 54.00  | -1.26 | 47.85  | 5.73         | 33.63  | 34.47 | 357   | 187 Average | VERTICAL  |
| 4 | 5352.20 | 65.23  | 74.00  | -8.77 | 60.34  | 5.73         | 33.63  | 34.47 | 357   | 187 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | 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 | 5312.80 | 103.21 |        |       | 98.36  | 5.75         | 33.57  | 34.47 | 359   | 198 Average | VERTICAL  |
| 2 | 5313.60 | 113.15 |        |       | 108.30 | 5.75         | 33.57  | 34.47 | 359   | 198 Peak    | VERTICAL  |
| 3 | 5351.20 | 52.96  | 54.00  | -1.04 | 48.07  | 5.73         | 33.63  | 34.47 | 359   | 198 Average | VERTICAL  |
| 4 | 5351.60 | 65.45  | 74.00  | -8.55 | 60.56  | 5.73         | 33.63  | 34.47 | 359   | 198 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5310 MHz.



|               |                                              |                |                                                                                             |
|---------------|----------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                                             |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                             |

### Channel 102

|   | 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 | 5459.20 | 64.53  | 74.00  | -9.47 | 59.51  | 5.68         | 33.81  | 34.47 | 356   | 194 Peak    | VERTICAL  |
| 2 | 5460.00 | 51.75  | 54.00  | -2.25 | 46.73  | 5.68         | 33.81  | 34.47 | 356   | 194 Average | VERTICAL  |
| 3 | 5464.00 | 52.88  | 54.00  | -1.12 | 47.83  | 5.68         | 33.84  | 34.47 | 356   | 194 Average | VERTICAL  |
| 4 | 5464.80 | 65.07  | 74.00  | -8.93 | 60.02  | 5.68         | 33.84  | 34.47 | 356   | 194 Peak    | VERTICAL  |
| 5 | 5502.80 | 114.59 |        |       | 109.51 | 5.66         | 33.90  | 34.48 | 356   | 194 Peak    | VERTICAL  |
| 6 | 5502.80 | 104.72 |        |       | 99.64  | 5.66         | 33.90  | 34.48 | 356   | 194 Average | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | 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 | 5453.40 | 64.46  | 74.00  | -9.54 | 59.44  | 5.68         | 33.81  | 34.47 | 359   | 190 Peak    | HORIZONTAL |
| 2 | 5460.00 | 51.49  | 54.00  | -2.51 | 46.47  | 5.68         | 33.81  | 34.47 | 359   | 190 Average | HORIZONTAL |
| 3 | 5470.00 | 64.55  | 74.00  | -9.45 | 59.50  | 5.68         | 33.84  | 34.47 | 359   | 190 Peak    | HORIZONTAL |
| 4 | 5470.00 | 52.95  | 54.00  | -1.05 | 47.90  | 5.68         | 33.84  | 34.47 | 359   | 190 Average | HORIZONTAL |
| 5 | 5552.40 | 119.26 |        |       | 114.00 | 5.69         | 34.06  | 34.49 | 359   | 190 Peak    | HORIZONTAL |
| 6 | 5553.00 | 110.00 |        |       | 104.74 | 5.69         | 34.06  | 34.49 | 359   | 190 Average | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | 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 | 5671.60 | 117.83 |        |       | 112.16 | 5.76         | 34.42  | 34.51 | 356   | 178 Peak    | HORIZONTAL |
| 2 | 5671.60 | 108.06 |        |       | 102.39 | 5.76         | 34.42  | 34.51 | 356   | 178 Average | HORIZONTAL |
| 3 | 5732.40 | 67.10  | 68.20  | -1.10 | 61.26  | 5.79         | 34.57  | 34.52 | 356   | 178 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                              |                |                                                                                            |
|---------------|----------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015 ~ Nov. 09, 2015                |                |                                                                                            |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit  | Over  | Read  | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV  | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5265.96 | 92.91  |        |       | 87.47 | 6.21         | 34.23  | 35.00 | 179   | 352   | VERTICAL  |
| 2 | 5265.96 | 103.00 |        |       | 97.56 | 6.21         | 34.23  | 35.00 | 179   | 352   | VERTICAL  |
| 3 | 5350.00 | 52.79  | 54.00  | -1.21 | 47.17 | 6.26         | 34.36  | 35.00 | 179   | 352   | VERTICAL  |
| 4 | 5350.48 | 64.02  | 74.00  | -9.98 | 58.40 | 6.26         | 34.36  | 35.00 | 179   | 352   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5451.00 | 52.57  | 54.00  | -1.43  | 46.71 | 6.33         | 34.52  | 34.99 | 176   | 0     | HORIZONTAL |
| 2 | 5451.00 | 66.02  | 74.00  | -7.98  | 60.16 | 6.33         | 34.52  | 34.99 | 176   | 0     | HORIZONTAL |
| 3 | 5470.00 | 65.22  | 68.20  | -2.98  | 59.32 | 6.34         | 34.55  | 34.99 | 176   | 0     | HORIZONTAL |
| 4 | 5532.00 | 94.64  |        |        | 88.66 | 6.37         | 34.61  | 35.00 | 176   | 0     | HORIZONTAL |
| 5 | 5532.00 | 104.61 |        |        | 98.63 | 6.37         | 34.61  | 35.00 | 176   | 0     | HORIZONTAL |
| 6 | 5743.00 | 56.05  | 68.20  | -12.15 | 49.99 | 6.45         | 34.65  | 35.04 | 176   | 0     | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | 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 | 5453.00 | 65.60  | 74.00  | -8.40 | 60.58  | 5.68         | 33.81  | 34.47 | 354   | 166 Peak    | HORIZONTAL |
| 2 | 5453.00 | 65.20  | 74.00  | -8.80 | 60.18  | 5.68         | 33.81  | 34.47 | 354   | 166 Peak    | HORIZONTAL |
| 3 | 5454.00 | 52.44  | 54.00  | -1.56 | 47.42  | 5.68         | 33.81  | 34.47 | 354   | 166 Average | HORIZONTAL |
| 4 | 5593.00 | 113.05 |        |       | 107.67 | 5.71         | 34.16  | 34.49 | 354   | 166 Peak    | HORIZONTAL |
| 5 | 5614.00 | 103.54 |        |       | 98.11  | 5.72         | 34.21  | 34.50 | 354   | 166 Average | HORIZONTAL |
| 6 | 5735.00 | 65.66  | 68.20  | -2.54 | 59.76  | 5.80         | 34.62  | 34.52 | 354   | 166 Peak    | HORIZONTAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                              |                |                                                               |
|---------------|----------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                               |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                               |

### Channel 144

|   | 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 | 5713.00 | 121.85 |        |       | 116.06 | 5.78         | 34.52  | 34.51 | 348   | 183 Peak    | VERTICAL  |
| 2 | 5713.00 | 112.67 |        |       | 106.88 | 5.78         | 34.52  | 34.51 | 348   | 183 Average | VERTICAL  |
| 3 | 5926.00 | 62.68  | 68.20  | -5.52 | 56.13  | 5.92         | 35.19  | 34.56 | 348   | 183 Peak    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                              |                |                                                                             |
|---------------|----------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                             |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                             |

#### Channel 144

|   | 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 | 5722.40 | 123.62 |        |        | 117.77 | 5.79         | 34.57  | 34.51 | 356   | 179 Peak    | HORIZONTAL |
| 2 | 5722.40 | 113.79 |        |        | 107.94 | 5.79         | 34.57  | 34.51 | 356   | 179 Average | HORIZONTAL |
| 3 | 5850.00 | 50.26  | 54.00  | -3.74  | 44.00  | 5.87         | 34.93  | 34.54 | 356   | 179 Average | HORIZONTAL |
| 4 | 5856.40 | 63.97  | 74.00  | -10.03 | 57.64  | 5.88         | 34.99  | 34.54 | 356   | 179 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                              |                |                                                                             |
|---------------|----------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                             |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                             |

#### Channel 142

|   | 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 | 5711.60 | 121.35 |        |       | 115.56 | 5.78         | 34.52  | 34.51 | 357   | 189 Peak    | HORIZONTAL |
| 2 | 5711.60 | 111.25 |        |       | 105.46 | 5.78         | 34.52  | 34.51 | 357   | 189 Average | HORIZONTAL |
| 3 | 5860.40 | 65.84  | 68.20  | -2.36 | 59.51  | 5.88         | 34.99  | 34.54 | 357   | 189 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                              |                |                                                                                |
|---------------|----------------------------------------------|----------------|--------------------------------------------------------------------------------|
| Temperature   | 25°C                                         | Humidity       | 55%                                                                            |
| Test Engineer | Stim Sung                                    | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 22, 2015                                |                |                                                                                |
| Test Mode     | Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi |                |                                                                                |

#### Channel 138

|   | 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 | 5671.00 | 116.53 |        |       | 110.86 | 5.76         | 34.42  | 34.51 | 0     | 183 Peak    | HORIZONTAL |
| 2 | 5671.00 | 106.33 |        |       | 100.66 | 5.76         | 34.42  | 34.51 | 0     | 183 Average | HORIZONTAL |
| 3 | 5852.00 | 66.85  | 68.20  | -1.35 | 60.59  | 5.87         | 34.93  | 34.54 | 0     | 183 Peak    | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                 |                |                                                                      |
|---------------|-------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                      |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                      |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5133.23 | 59.38  | 74.00  | -14.62 | 54.25  | 6.12         | 34.01  | 35.00  | Peak    | 202   | 314 VERTICAL |
| 2 | 5135.40 | 46.90  | 54.00  | -7.10  | 41.77  | 6.12         | 34.01  | 35.00  | Average | 202   | 314 VERTICAL |
| 3 | 5257.83 | 111.43 |        |        | 106.03 | 6.20         | 34.20  | 35.00  | Average | 202   | 314 VERTICAL |
| 4 | 5258.70 | 121.66 |        |        | 116.22 | 6.21         | 34.23  | 35.00  | Peak    | 202   | 314 VERTICAL |
| 5 | 5353.91 | 60.26  | 74.00  | -13.74 | 54.64  | 6.26         | 34.36  | 35.00  | Peak    | 202   | 314 VERTICAL |
| 6 | 5356.95 | 48.18  | 54.00  | -5.82  | 42.56  | 6.26         | 34.36  | 35.00  | Average | 202   | 314 VERTICAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |             |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|-------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg         |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase   |
| 1 | 5302.60 | 112.66 |        |        | 107.15 | 6.23         | 34.28  | 35.00  | Average | 207   | 17 VERTICAL |
| 2 | 5303.18 | 122.68 |        |        | 117.17 | 6.23         | 34.28  | 35.00  | Peak    | 207   | 17 VERTICAL |
| 3 | 5350.00 | 51.06  | 54.00  | -2.94  | 45.44  | 6.26         | 34.36  | 35.00  | Average | 207   | 17 VERTICAL |
| 4 | 5351.81 | 62.28  | 74.00  | -11.72 | 56.66  | 6.26         | 34.36  | 35.00  | Peak    | 207   | 17 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5322.32 | 110.15 |        |       | 104.60 | 6.24         | 34.31  | 35.00  | Average | 218   | 284 VERTICAL |
| 2 | 5322.60 | 120.48 |        |       | 114.93 | 6.24         | 34.31  | 35.00  | Peak    | 218   | 284 VERTICAL |
| 3 | 5350.00 | 52.60  | 54.00  | -1.40 | 46.98  | 6.26         | 34.36  | 35.00  | Average | 218   | 284 VERTICAL |
| 4 | 5350.00 | 66.31  | 74.00  | -7.69 | 60.69  | 6.26         | 34.36  | 35.00  | Peak    | 218   | 284 VERTICAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.



|               |                                                 |                |                                                                         |
|---------------|-------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                         |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5460.00 | 50.83  | 54.00  | -3.17 | 44.97  | 6.33         | 34.52  | 34.99  | Average | 200   | 192 VERTICAL |
| 2 | 5460.00 | 64.70  | 74.00  | -9.30 | 58.84  | 6.33         | 34.52  | 34.99  | Peak    | 200   | 192 VERTICAL |
| 3 | 5463.53 | 67.07  | 68.20  | -1.13 | 61.17  | 6.34         | 34.55  | 34.99  | Peak    | 200   | 192 VERTICAL |
| 4 | 5502.32 | 111.40 |        |       | 105.44 | 6.36         | 34.60  | 35.00  | Average | 200   | 192 VERTICAL |
| 5 | 5502.60 | 121.80 |        |       | 115.84 | 6.36         | 34.60  | 35.00  | Peak    | 200   | 192 VERTICAL |

Item 4, 5 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5444.11 | 60.15  | 74.00  | -13.85 | 54.33  | 6.32         | 34.49  | 34.99  | Peak    | 199   | 308 VERTICAL |
| 2 | 5452.79 | 47.62  | 54.00  | -6.38  | 41.76  | 6.33         | 34.52  | 34.99  | Average | 199   | 308 VERTICAL |
| 3 | 5462.17 | 59.93  | 68.20  | -8.27  | 54.07  | 6.33         | 34.52  | 34.99  | Peak    | 199   | 308 VERTICAL |
| 4 | 5582.60 | 112.62 |        |        | 106.62 | 6.39         | 34.62  | 35.01  | Average | 199   | 308 VERTICAL |
| 5 | 5583.04 | 122.85 |        |        | 116.85 | 6.39         | 34.62  | 35.01  | Peak    | 199   | 308 VERTICAL |
| 6 | 5727.60 | 60.35  | 68.20  | -7.85  | 54.29  | 6.45         | 34.64  | 35.03  | Peak    | 199   | 308 VERTICAL |

Item 4, 5 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5705.21 | 108.88 |        |       | 102.83 | 6.44         | 34.64  | 35.03  | Average | 206   | 136 VERTICAL |
| 2 | 5705.79 | 119.43 |        |       | 113.38 | 6.44         | 34.64  | 35.03  | Peak    | 206   | 136 VERTICAL |
| 3 | 5726.63 | 66.39  | 68.20  | -1.81 | 60.33  | 6.45         | 34.64  | 35.03  | Peak    | 206   | 136 VERTICAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                 |                |                                                                                          |
|---------------|-------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                                          |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                                          |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase   |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|-------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |             |
| 1 | 5112.39 | 46.56  | 54.00  | -7.44  | 41.47  | 6.11         | 33.99  | 35.00 | Average | 208   | 28 VERTICAL |
| 2 | 5122.37 | 58.68  | 74.00  | -15.32 | 53.58  | 6.11         | 33.99  | 35.00 | Peak    | 208   | 28 VERTICAL |
| 3 | 5251.75 | 111.30 |        |        | 105.90 | 6.20         | 34.20  | 35.00 | Average | 208   | 28 VERTICAL |
| 4 | 5253.05 | 120.43 |        |        | 115.03 | 6.20         | 34.20  | 35.00 | Peak    | 208   | 28 VERTICAL |
| 5 | 5350.43 | 47.93  | 54.00  | -6.07  | 42.31  | 6.26         | 34.36  | 35.00 | Average | 208   | 28 VERTICAL |
| 6 | 5351.74 | 60.02  | 74.00  | -13.98 | 54.40  | 6.26         | 34.36  | 35.00 | Peak    | 208   | 28 VERTICAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5301.74 | 123.01 |        |        | 117.50 | 6.23         | 34.28  | 35.00 | Peak    | 211   | 284 VERTICAL |
| 2 | 5302.60 | 112.52 |        |        | 107.01 | 6.23         | 34.28  | 35.00 | Average | 211   | 284 VERTICAL |
| 3 | 5350.00 | 51.77  | 54.00  | -2.23  | 46.15  | 6.26         | 34.36  | 35.00 | Average | 211   | 284 VERTICAL |
| 4 | 5350.00 | 63.78  | 74.00  | -10.22 | 58.16  | 6.26         | 34.36  | 35.00 | Peak    | 211   | 284 VERTICAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5321.88 | 120.61 |        |       | 115.06 | 6.24         | 34.31  | 35.00 | Peak    | 206   | 284 VERTICAL |
| 2 | 5322.75 | 109.83 |        |       | 104.28 | 6.24         | 34.31  | 35.00 | Average | 206   | 284 VERTICAL |
| 3 | 5350.00 | 52.93  | 54.00  | -1.07 | 47.31  | 6.26         | 34.36  | 35.00 | Average | 206   | 284 VERTICAL |
| 4 | 5350.25 | 66.15  | 74.00  | -7.85 | 60.53  | 6.26         | 34.36  | 35.00 | Peak    | 206   | 284 VERTICAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                 |                |                                                                                             |
|---------------|-------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                                             |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                                             |

### Channel 100

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5460.00 | 50.18  | 54.00      | -3.82      | 44.32      | 6.33              | 34.52  | 34.99         | Average | 211   | 194   | VERTICAL  |
| 2 | 5460.00 | 64.61  | 74.00      | -9.39      | 58.75      | 6.33              | 34.52  | 34.99         | Peak    | 211   | 194   | VERTICAL  |
| 3 | 5463.53 | 66.66  | 68.20      | -1.54      | 60.76      | 6.34              | 34.55  | 34.99         | Peak    | 211   | 194   | VERTICAL  |
| 4 | 5501.74 | 121.89 |            |            | 115.93     | 6.36              | 34.60  | 35.00         | Peak    | 211   | 194   | VERTICAL  |
| 5 | 5502.03 | 109.84 |            |            | 103.88     | 6.36              | 34.60  | 35.00         | Average | 211   | 194   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5500 MHz.

### Channel 116

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5394.04 | 60.60  | 74.00      | -13.40     | 54.90      | 6.28              | 34.41  | 34.99         | Peak    | 217   | 308   | VERTICAL  |
| 2 | 5417.50 | 47.82  | 54.00      | -6.18      | 42.03      | 6.31              | 34.47  | 34.99         | Average | 217   | 308   | VERTICAL  |
| 3 | 5464.34 | 60.14  | 68.20      | -8.06      | 54.24      | 6.34              | 34.55  | 34.99         | Peak    | 217   | 308   | VERTICAL  |
| 4 | 5582.89 | 112.11 |            |            | 106.11     | 6.39              | 34.62  | 35.01         | Average | 217   | 308   | VERTICAL  |
| 5 | 5583.62 | 122.60 |            |            | 116.60     | 6.39              | 34.62  | 35.01         | Peak    | 217   | 308   | VERTICAL  |
| 6 | 5734.41 | 60.95  | 68.20      | -7.25      | 54.90      | 6.45              | 34.64  | 35.04         | Peak    | 217   | 308   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5580 MHz.

### Channel 140

|   | Freq    | Level  | Limit Line | Over Limit | Read Level | CableAntenna Loss | Factor | Preamp Factor | Remark  | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|------------|------------|------------|-------------------|--------|---------------|---------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m     | dB         | dBuV       | dB                | dB/m   | dB            |         | cm    | deg   |           |
| 1 | 5705.07 | 117.50 |            |            | 111.45     | 6.44              | 34.64  | 35.03         | Peak    | 204   | 134   | VERTICAL  |
| 2 | 5705.21 | 106.61 |            |            | 100.56     | 6.44              | 34.64  | 35.03         | Average | 204   | 134   | VERTICAL  |
| 3 | 5725.00 | 67.14  | 68.20      | -1.06      | 61.08      | 6.45              | 34.64  | 35.03         | Peak    | 204   | 134   | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                 |                |                                                                                   |
|---------------|-------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                                   |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                                   |

#### Channel 54

|   | Freq    | Level  | Limit | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|--------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level  | Loss         | Factor | Factor | Remark  |       | Pol/Phase    |
|   |         |        |       | dB     | dBuV   | dB           | dB/m   | dB     |         | cm    | deg          |
| 1 | 5260.45 | 107.37 |       |        | 101.93 | 6.21         | 34.23  | 35.00  | Average | 219   | 221 VERTICAL |
| 2 | 5261.32 | 117.53 |       |        | 112.09 | 6.21         | 34.23  | 35.00  | Peak    | 219   | 221 VERTICAL |
| 3 | 5350.00 | 52.06  | 54.00 | -1.94  | 46.44  | 6.26         | 34.36  | 35.00  | Average | 219   | 221 VERTICAL |
| 4 | 5350.00 | 63.61  | 74.00 | -10.39 | 57.99  | 6.26         | 34.36  | 35.00  | Peak    | 219   | 221 VERTICAL |

Item 1, 2 are the fundamental frequency at 5270 MHz.

#### Channel 62

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  |       | Pol/Phase    |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         | cm    | deg          |
| 1 | 5312.32 | 101.47 |       |       | 95.92  | 6.24         | 34.31  | 35.00  | Average | 216   | 284 VERTICAL |
| 2 | 5313.18 | 111.04 |       |       | 105.49 | 6.24         | 34.31  | 35.00  | Peak    | 216   | 284 VERTICAL |
| 3 | 5351.10 | 52.25  | 54.00 | -1.75 | 46.63  | 6.26         | 34.36  | 35.00  | Average | 216   | 284 VERTICAL |
| 4 | 5351.97 | 64.19  | 74.00 | -9.81 | 58.57  | 6.26         | 34.36  | 35.00  | Peak    | 216   | 284 VERTICAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                 |                |                                                                                             |
|---------------|-------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                                             |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5452.60 | 52.25  | 54.00  | -1.75 | 46.39  | 6.33         | 34.52  | 34.99 | 213   | 193   | VERTICAL  |
| 2 | 5452.98 | 64.19  | 74.00  | -9.81 | 58.33  | 6.33         | 34.52  | 34.99 | 213   | 193   | VERTICAL  |
| 3 | 5469.48 | 65.31  | 68.20  | -2.89 | 59.41  | 6.34         | 34.55  | 34.99 | 213   | 193   | VERTICAL  |
| 4 | 5511.45 | 115.29 |        |       | 109.33 | 6.36         | 34.60  | 35.00 | 213   | 193   | VERTICAL  |
| 5 | 5511.74 | 105.64 |        |       | 99.68  | 6.36         | 34.60  | 35.00 | 213   | 193   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5451.01 | 64.64  | 74.00  | -9.36 | 58.78  | 6.33         | 34.52  | 34.99 | 206   | 195   | VERTICAL  |
| 2 | 5451.88 | 50.54  | 54.00  | -3.46 | 44.68  | 6.33         | 34.52  | 34.99 | 206   | 195   | VERTICAL  |
| 3 | 5470.00 | 66.55  | 68.20  | -1.65 | 60.65  | 6.34         | 34.55  | 34.99 | 206   | 195   | VERTICAL  |
| 4 | 5551.74 | 108.37 |        |       | 102.38 | 6.38         | 34.61  | 35.00 | 206   | 195   | VERTICAL  |
| 5 | 5551.74 | 118.04 |        |       | 112.05 | 6.38         | 34.61  | 35.00 | 206   | 195   | VERTICAL  |

Item 4, 5 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5662.76 | 115.11 |        |       | 109.09 | 6.42         | 34.63  | 35.03 | 204   | 10    | VERTICAL  |
| 2 | 5663.63 | 105.57 |        |       | 99.55  | 6.42         | 34.63  | 35.03 | 204   | 10    | VERTICAL  |
| 3 | 5725.86 | 66.57  | 68.20  | -1.63 | 60.51  | 6.45         | 34.64  | 35.03 | 204   | 10    | VERTICAL  |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                 |                |                                                                                            |
|---------------|-------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                   |                |                                                                                            |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit | Over   | Read  | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|--------|-------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit  | Level | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5129.02 | 59.31  | 74.00 | -14.69 | 54.18 | 6.12         | 34.01  | 35.00  | Peak    | 212   | 284 VERTICAL |
| 2 | 5145.66 | 46.68  | 54.00 | -7.32  | 41.51 | 6.13         | 34.04  | 35.00  | Average | 212   | 284 VERTICAL |
| 3 | 5292.17 | 95.37  |       |        | 89.90 | 6.22         | 34.25  | 35.00  | Average | 212   | 284 VERTICAL |
| 4 | 5313.88 | 105.40 |       |        | 99.85 | 6.24         | 34.31  | 35.00  | Peak    | 212   | 284 VERTICAL |
| 5 | 5352.95 | 52.60  | 54.00 | -1.40  | 46.98 | 6.26         | 34.36  | 35.00  | Average | 212   | 284 VERTICAL |
| 6 | 5352.95 | 64.14  | 74.00 | -9.86  | 58.52 | 6.26         | 34.36  | 35.00  | Peak    | 212   | 284 VERTICAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5451.85 | 65.79  | 74.00 | -8.21 | 59.93  | 6.33         | 34.52  | 34.99  | Peak    | 215   | 193 VERTICAL |
| 2 | 5452.72 | 52.78  | 54.00 | -1.22 | 46.92  | 6.33         | 34.52  | 34.99  | Average | 215   | 193 VERTICAL |
| 3 | 5470.00 | 62.74  | 68.20 | -5.46 | 56.84  | 6.34         | 34.55  | 34.99  | Peak    | 215   | 193 VERTICAL |
| 4 | 5531.74 | 106.59 |       |       | 100.61 | 6.37         | 34.61  | 35.00  | Peak    | 215   | 193 VERTICAL |
| 5 | 5532.17 | 96.72  |       |       | 90.74  | 6.37         | 34.61  | 35.00  | Average | 215   | 193 VERTICAL |
| 6 | 5742.37 | 60.45  | 68.20 | -7.75 | 54.39  | 6.45         | 34.65  | 35.04  | Peak    | 215   | 193 VERTICAL |

Item 4, 5 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5453.70 | 52.70  | 54.00 | -1.30 | 46.84  | 6.33         | 34.52  | 34.99  | Average | 210   | 310 VERTICAL |
| 2 | 5453.70 | 65.51  | 74.00 | -8.49 | 59.65  | 6.33         | 34.52  | 34.99  | Peak    | 210   | 310 VERTICAL |
| 3 | 5467.11 | 63.29  | 68.20 | -4.91 | 57.39  | 6.34         | 34.55  | 34.99  | Peak    | 210   | 310 VERTICAL |
| 4 | 5613.62 | 102.97 |       |       | 96.96  | 6.40         | 34.62  | 35.01  | Average | 210   | 310 VERTICAL |
| 5 | 5615.07 | 112.30 |       |       | 106.29 | 6.40         | 34.62  | 35.01  | Peak    | 210   | 310 VERTICAL |
| 6 | 5734.41 | 66.22  | 68.20 | -1.98 | 60.17  | 6.45         | 34.64  | 35.04  | Peak    | 210   | 310 VERTICAL |

Item 4, 5 are the fundamental frequency at 5610 MHz.

Note:

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

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



### Straddle Channel

|               |                                                 |                |                                                               |
|---------------|-------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                               |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|-------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | Line  | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg          |
|   |         |        |       | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase    |
| 1 | 5725.07 | 112.87 |       |       | 106.81 | 6.45         | 34.64  | 35.03  | Average | 200   | 135 VERTICAL |
| 2 | 5726.51 | 122.21 |       |       | 116.15 | 6.45         | 34.64  | 35.03  | Peak    | 200   | 135 VERTICAL |
| 3 | 5891.49 | 61.06  | 68.20 | -7.14 | 54.94  | 6.51         | 34.68  | 35.07  | Peak    | 200   | 135 VERTICAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.



|               |                                                 |                |                                                                             |
|---------------|-------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                             |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |              |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg          |
| 1 | 5725.07 | 112.43 |        |       | 106.37 | 6.45         | 34.64  | 35.03  | Average | 203   | 136 VERTICAL |
| 2 | 5726.51 | 122.31 |        |       | 116.25 | 6.45         | 34.64  | 35.03  | Peak    | 203   | 136 VERTICAL |
| 3 | 5918.26 | 60.22  | 68.20  | -7.98 | 54.10  | 6.52         | 34.68  | 35.08  | Peak    | 203   | 136 VERTICAL |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                 |                |                                                                             |
|---------------|-------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 23, 2015                                   |                |                                                                             |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                             |

### Channel 142

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos   | T/Pos | Pol/Phase    |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|---------|-------|--------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm      | deg   |              |
| 1 | 5715.79 | 110.25 |        |       | 104.20 | 6.44         | 34.64  | 35.03 | Average | 217   | 278 VERTICAL |
| 2 | 5717.96 | 119.97 |        |       | 113.91 | 6.45         | 34.64  | 35.03 | Peak    | 217   | 278 VERTICAL |
| 3 | 5858.34 | 60.36  | 68.20  | -7.84 | 54.26  | 6.50         | 34.67  | 35.07 | Peak    | 217   | 278 VERTICAL |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                                 |                |                                                                             |
|---------------|-------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                            | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                       | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 24, 2015                                   |                |                                                                             |
| Test Mode     | Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |     |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|-----|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg |
| 1 | 5695.79 | 105.27 |        |       | 99.23  | 6.43         | 34.64  | 35.03  | Average | 208   | 134 |
| 2 | 5696.51 | 114.83 |        |       | 108.79 | 6.43         | 34.64  | 35.03  | Peak    | 208   | 134 |
| 3 | 5857.87 | 66.65  | 68.20  | -1.55 | 60.55  | 6.50         | 34.67  | 35.07  | Peak    | 208   | 134 |

Item 1, 2 are the fundamental frequency at 5690 MHz.

|               |                                                                                                             |                |                                                                      |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                  |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11a CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 16, 2015 ~ Oct. 17, 2015                                                                               |                |                                                                      |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                      |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5145.22 | 58.59  | 74.00  | -15.41 | 53.42  | 6.13         | 34.04  | 35.00 | 300   | 303   | HORIZONTAL |
| 2 | 5150.00 | 45.80  | 54.00  | -8.20  | 40.63  | 6.13         | 34.04  | 35.00 | 300   | 303   | HORIZONTAL |
| 3 | 5265.21 | 110.43 |        |        | 104.99 | 6.21         | 34.23  | 35.00 | 300   | 303   | HORIZONTAL |
| 4 | 5265.21 | 120.68 |        |        | 115.24 | 6.21         | 34.23  | 35.00 | 300   | 303   | HORIZONTAL |
| 5 | 5350.00 | 46.72  | 54.00  | -7.28  | 41.10  | 6.26         | 34.36  | 35.00 | 300   | 303   | HORIZONTAL |
| 6 | 5351.74 | 57.75  | 74.00  | -16.25 | 52.13  | 6.26         | 34.36  | 35.00 | 300   | 303   | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5304.92 | 121.24 |        |       | 115.73 | 6.23         | 34.28  | 35.00 | 300   | 308   | HORIZONTAL |
| 2 | 5305.21 | 110.75 |        |       | 105.24 | 6.23         | 34.28  | 35.00 | 300   | 308   | HORIZONTAL |
| 3 | 5352.03 | 51.46  | 54.00  | -2.54 | 45.84  | 6.26         | 34.36  | 35.00 | 300   | 308   | HORIZONTAL |
| 4 | 5352.03 | 67.83  | 74.00  | -6.17 | 62.21  | 6.26         | 34.36  | 35.00 | 300   | 308   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5322.75 | 106.29 |        |        | 100.74 | 6.24         | 34.31  | 35.00 | 296   | 307   | HORIZONTAL |
| 2 | 5322.75 | 116.83 |        |        | 111.28 | 6.24         | 34.31  | 35.00 | 296   | 307   | HORIZONTAL |
| 3 | 5350.00 | 48.33  | 54.00  | -5.67  | 42.71  | 6.26         | 34.36  | 35.00 | 296   | 307   | HORIZONTAL |
| 4 | 5350.29 | 60.24  | 74.00  | -13.76 | 54.62  | 6.26         | 34.36  | 35.00 | 296   | 307   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                                                                             |                |                                                                         |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                     |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11a CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 17, 2015                                                                                               |                |                                                                         |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                         |

#### Channel 100

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line   | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5456.24 | 60.14  | 74.00  | -13.86 | 54.28  | 6.33         | 34.52  | 34.99  | Peak    | 282   | 300 HORIZONTAL |
| 2 | 5456.70 | 47.45  | 54.00  | -6.55  | 41.59  | 6.33         | 34.52  | 34.99  | Average | 282   | 300 HORIZONTAL |
| 3 | 5465.08 | 49.35  | 54.00  | -4.65  | 43.45  | 6.34         | 34.55  | 34.99  | Average | 282   | 300 HORIZONTAL |
| 4 | 5465.22 | 63.29  | 74.00  | -10.71 | 57.39  | 6.34         | 34.55  | 34.99  | Peak    | 282   | 300 HORIZONTAL |
| 5 | 5502.75 | 117.56 |        |        | 111.60 | 6.36         | 34.60  | 35.00  | Peak    | 282   | 300 HORIZONTAL |
| 6 | 5503.33 | 106.90 |        |        | 100.94 | 6.36         | 34.60  | 35.00  | Average | 282   | 300 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line   | Limit  | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5459.13 | 59.73  | 74.00  | -14.27 | 53.87  | 6.33         | 34.52  | 34.99  | Peak    | 277   | 304 HORIZONTAL |
| 2 | 5460.00 | 46.49  | 54.00  | -7.51  | 40.63  | 6.33         | 34.52  | 34.99  | Average | 277   | 304 HORIZONTAL |
| 3 | 5469.13 | 59.99  | 74.00  | -14.01 | 54.09  | 6.34         | 34.55  | 34.99  | Peak    | 277   | 304 HORIZONTAL |
| 4 | 5470.00 | 47.03  | 54.00  | -6.97  | 41.13  | 6.34         | 34.55  | 34.99  | Average | 277   | 304 HORIZONTAL |
| 5 | 5582.60 | 111.30 |        |        | 105.30 | 6.39         | 34.62  | 35.01  | Average | 277   | 304 HORIZONTAL |
| 6 | 5583.04 | 121.21 |        |        | 115.21 | 6.39         | 34.62  | 35.01  | Peak    | 277   | 304 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | Line   | Limit | Level  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5702.60 | 116.31 |        |       | 110.26 | 6.44         | 34.64  | 35.03  | Peak    | 274   | 300 HORIZONTAL |
| 2 | 5702.89 | 104.14 |        |       | 98.09  | 6.44         | 34.64  | 35.03  | Average | 274   | 300 HORIZONTAL |
| 3 | 5725.00 | 52.84  | 54.00  | -1.16 | 46.78  | 6.45         | 34.64  | 35.03  | Average | 274   | 300 HORIZONTAL |
| 4 | 5725.00 | 70.57  | 74.00  | -3.43 | 64.51  | 6.45         | 34.64  | 35.03  | Peak    | 274   | 300 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.

|               |                                                                                                             |                |                                                                                          |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                                      |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 52, 60, 64 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 16, 2015 ~ Oct. 17, 2015                                                                               |                |                                                                                          |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                                          |

### Channel 52

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5148.26 | 57.87  | 74.00  | -16.13 | 52.70  | 6.13         | 34.04  | 35.00  | Peak    | 299   | 303 HORIZONTAL |
| 2 | 5150.00 | 45.45  | 54.00  | -8.55  | 40.28  | 6.13         | 34.04  | 35.00  | Average | 299   | 303 HORIZONTAL |
| 3 | 5263.91 | 120.90 |        |        | 115.46 | 6.21         | 34.23  | 35.00  | Peak    | 299   | 303 HORIZONTAL |
| 4 | 5265.21 | 109.25 |        |        | 103.81 | 6.21         | 34.23  | 35.00  | Average | 299   | 303 HORIZONTAL |
| 5 | 5359.99 | 46.32  | 54.00  | -7.68  | 40.70  | 6.26         | 34.36  | 35.00  | Average | 299   | 303 HORIZONTAL |
| 6 | 5362.16 | 58.61  | 74.00  | -15.39 | 52.95  | 6.27         | 34.39  | 35.00  | Peak    | 299   | 303 HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5260 MHz.

### Channel 60

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5305.21 | 109.51 |        |       | 104.00 | 6.23         | 34.28  | 35.00  | Average | 300   | 304 HORIZONTAL |
| 2 | 5305.21 | 120.45 |        |       | 114.94 | 6.23         | 34.28  | 35.00  | Peak    | 300   | 304 HORIZONTAL |
| 3 | 5351.16 | 50.90  | 54.00  | -3.10 | 45.28  | 6.26         | 34.36  | 35.00  | Average | 300   | 304 HORIZONTAL |
| 4 | 5351.16 | 65.74  | 74.00  | -8.26 | 60.12  | 6.26         | 34.36  | 35.00  | Peak    | 300   | 304 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5300 MHz.

### Channel 64

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5322.60 | 116.64 |        |        | 111.09 | 6.24         | 34.31  | 35.00  | Peak    | 295   | 308 HORIZONTAL |
| 2 | 5322.75 | 104.72 |        |        | 99.17  | 6.24         | 34.31  | 35.00  | Average | 295   | 308 HORIZONTAL |
| 3 | 5350.00 | 47.80  | 54.00  | -6.20  | 42.18  | 6.26         | 34.36  | 35.00  | Average | 295   | 308 HORIZONTAL |
| 4 | 5350.87 | 61.41  | 74.00  | -12.59 | 55.79  | 6.26         | 34.36  | 35.00  | Peak    | 295   | 308 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5320 MHz.

|               |                                                                                                             |                |                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20<br>CH 100, 116, 140 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 17, 2015                                                                                               |                |                                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                                             |

#### Channel 100

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5456.38 | 60.84  | 74.00  | -13.16 | 54.98  | 6.33         | 34.52  | 34.99  | Peak    | 248   | 307 HORIZONTAL |
| 2 | 5460.00 | 46.99  | 54.00  | -7.01  | 41.13  | 6.33         | 34.52  | 34.99  | Average | 248   | 307 HORIZONTAL |
| 3 | 5462.89 | 48.20  | 54.00  | -5.80  | 42.30  | 6.34         | 34.55  | 34.99  | Average | 248   | 307 HORIZONTAL |
| 4 | 5469.57 | 62.41  | 74.00  | -11.59 | 56.51  | 6.34         | 34.55  | 34.99  | Peak    | 248   | 307 HORIZONTAL |
| 5 | 5502.60 | 105.58 |        |        | 99.62  | 6.36         | 34.60  | 35.00  | Average | 248   | 307 HORIZONTAL |
| 6 | 5502.75 | 117.13 |        |        | 111.17 | 6.36         | 34.60  | 35.00  | Peak    | 248   | 307 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5500 MHz.

#### Channel 116

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |        |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5456.09 | 59.89  | 74.00  | -14.11 | 54.03  | 6.33         | 34.52  | 34.99  | Peak    | 291   | 303 HORIZONTAL |
| 2 | 5460.00 | 46.02  | 54.00  | -7.98  | 40.16  | 6.33         | 34.52  | 34.99  | Average | 291   | 303 HORIZONTAL |
| 3 | 5469.57 | 59.20  | 74.00  | -14.80 | 53.30  | 6.34         | 34.55  | 34.99  | Peak    | 291   | 303 HORIZONTAL |
| 4 | 5470.00 | 46.24  | 54.00  | -7.76  | 40.34  | 6.34         | 34.55  | 34.99  | Average | 291   | 303 HORIZONTAL |
| 5 | 5581.74 | 120.59 |        |        | 114.59 | 6.39         | 34.62  | 35.01  | Peak    | 291   | 303 HORIZONTAL |
| 6 | 5582.17 | 108.77 |        |        | 102.77 | 6.39         | 34.62  | 35.01  | Average | 291   | 303 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5580 MHz.

#### Channel 140

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5702.89 | 116.25 |        |       | 110.20 | 6.44         | 34.64  | 35.03  | Peak    | 274   | 303 HORIZONTAL |
| 2 | 5703.18 | 104.16 |        |       | 98.11  | 6.44         | 34.64  | 35.03  | Average | 274   | 303 HORIZONTAL |
| 3 | 5725.00 | 52.98  | 54.00  | -1.02 | 46.92  | 6.45         | 34.64  | 35.03  | Average | 274   | 303 HORIZONTAL |
| 4 | 5725.00 | 67.47  | 74.00  | -6.53 | 61.41  | 6.45         | 34.64  | 35.03  | Peak    | 274   | 303 HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5700 MHz.



|               |                                                                                                             |                |                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                               |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 54, 62<br>/ Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 16, 2015 ~ Oct. 17, 2015                                                                               |                |                                                                                   |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                                   |

### Channel 54

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5141.32 | 58.76  | 74.00  | -15.24 | 53.59  | 6.13         | 34.04  | 35.00 | 295   | 304   | HORIZONTAL |
| 2 | 5150.00 | 45.36  | 54.00  | -8.64  | 40.19  | 6.13         | 34.04  | 35.00 | 295   | 304   | HORIZONTAL |
| 3 | 5275.21 | 105.58 |        |        | 100.14 | 6.21         | 34.23  | 35.00 | 295   | 304   | HORIZONTAL |
| 4 | 5275.64 | 116.29 |        |        | 110.82 | 6.22         | 34.25  | 35.00 | 295   | 304   | HORIZONTAL |
| 5 | 5354.34 | 67.08  | 74.00  | -6.92  | 61.46  | 6.26         | 34.36  | 35.00 | 295   | 304   | HORIZONTAL |
| 6 | 5355.21 | 52.88  | 54.00  | -1.12  | 47.26  | 6.26         | 34.36  | 35.00 | 295   | 304   | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5270 MHz.

### Channel 62

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5314.63 | 96.49  |        |        | 90.94  | 6.24         | 34.31  | 35.00 | 287   | 297   | HORIZONTAL |
| 2 | 5314.92 | 107.38 |        |        | 101.83 | 6.24         | 34.31  | 35.00 | 287   | 297   | HORIZONTAL |
| 3 | 5351.16 | 59.90  | 74.00  | -14.10 | 54.28  | 6.26         | 34.36  | 35.00 | 287   | 297   | HORIZONTAL |
| 4 | 5354.05 | 47.07  | 54.00  | -6.93  | 41.45  | 6.26         | 34.36  | 35.00 | 287   | 297   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5310 MHz.

|               |                                                                                                             |                |                                                                                             |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                                         |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40<br>CH 102, 110, 134 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 17, 2015                                                                                               |                |                                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                                             |

### Channel 102

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|-------|-----------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | dB           | dB/m   | dB    | cm    | deg   |           |
| 1 | 5451.32 | 61.09  | 74.00  | -12.91 | 55.23 | 6.33         | 34.52  | 34.99 | 247   | 309   | VERTICAL  |
| 2 | 5451.90 | 46.95  | 54.00  | -7.05  | 41.09 | 6.33         | 34.52  | 34.99 | 247   | 309   | VERTICAL  |
| 3 | 5470.00 | 49.26  | 54.00  | -4.74  | 43.36 | 6.34         | 34.55  | 34.99 | 247   | 309   | VERTICAL  |
| 4 | 5470.00 | 61.18  | 74.00  | -12.82 | 55.28 | 6.34         | 34.55  | 34.99 | 247   | 309   | VERTICAL  |
| 5 | 5511.45 | 105.85 |        |        | 99.89 | 6.36         | 34.60  | 35.00 | 247   | 309   | VERTICAL  |
| 6 | 5511.74 | 95.07  |        |        | 89.11 | 6.36         | 34.60  | 35.00 | 247   | 309   | VERTICAL  |

Item 5, 6 are the fundamental frequency at 5510 MHz.

### Channel 110

|   | Freq    | Level  | Limit  | Over   | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5452.62 | 63.22  | 74.00  | -10.78 | 57.36  | 6.33         | 34.52  | 34.99 | 270   | 302   | HORIZONTAL |
| 2 | 5453.05 | 52.41  | 54.00  | -1.59  | 46.55  | 6.33         | 34.52  | 34.99 | 270   | 302   | HORIZONTAL |
| 3 | 5470.00 | 52.98  | 54.00  | -1.02  | 47.08  | 6.34         | 34.55  | 34.99 | 270   | 302   | HORIZONTAL |
| 4 | 5470.00 | 67.52  | 74.00  | -6.48  | 61.62  | 6.34         | 34.55  | 34.99 | 270   | 302   | HORIZONTAL |
| 5 | 5553.04 | 115.67 |        |        | 109.69 | 6.38         | 34.61  | 35.01 | 270   | 302   | HORIZONTAL |
| 6 | 5553.47 | 104.70 |        |        | 98.72  | 6.38         | 34.61  | 35.01 | 270   | 302   | HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5550 MHz.

### Channel 134

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |       | A/Pos | T/Pos | Pol/Phase  |
|---|---------|--------|--------|-------|--------|--------------|--------|-------|-------|-------|------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB           | dB/m   | dB    | cm    | deg   |            |
| 1 | 5672.03 | 100.74 |        |       | 94.71  | 6.43         | 34.63  | 35.03 | 278   | 299   | HORIZONTAL |
| 2 | 5672.03 | 112.06 |        |       | 106.03 | 6.43         | 34.63  | 35.03 | 278   | 299   | HORIZONTAL |
| 3 | 5727.60 | 52.86  | 54.00  | -1.14 | 46.80  | 6.45         | 34.64  | 35.03 | 278   | 299   | HORIZONTAL |
| 4 | 5727.60 | 67.71  | 74.00  | -6.29 | 61.65  | 6.45         | 34.64  | 35.03 | 278   | 299   | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 5670 MHz.

|               |                                                                                                             |                |                                                                                            |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                                                        |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80<br>CH 58, 106, 122 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 16, 2015 ~ Oct. 20, 2015                                                                               |                |                                                                                            |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                                            |

### Channel 58

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp |        | A/Pos   | T/Pos |               |
|---|---------|--------|--------|--------|-------|--------------|--------|--------|---------|-------|---------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | Remark  | cm    | deg           |
|   |         |        |        |        |       | dB           | dB/m   | dB     |         |       | Pol/Phase     |
| 1 | 5120.33 | 59.39  | 74.00  | -14.61 | 54.29 | 6.11         | 33.99  | 35.00  | Peak    | 285   | 58 HORIZONTAL |
| 2 | 5149.28 | 45.75  | 54.00  | -8.25  | 40.58 | 6.13         | 34.04  | 35.00  | Average | 285   | 58 HORIZONTAL |
| 3 | 5270.46 | 103.30 |        |        | 97.86 | 6.21         | 34.23  | 35.00  | Peak    | 285   | 58 HORIZONTAL |
| 4 | 5288.55 | 93.90  |        |        | 88.43 | 6.22         | 34.25  | 35.00  | Average | 285   | 58 HORIZONTAL |
| 5 | 5350.00 | 50.35  | 54.00  | -3.65  | 44.73 | 6.26         | 34.36  | 35.00  | Average | 285   | 58 HORIZONTAL |
| 6 | 5352.89 | 63.66  | 74.00  | -10.34 | 58.04 | 6.26         | 34.36  | 35.00  | Peak    | 285   | 58 HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5290 MHz.

### Channel 106

|   | Freq    | Level  | Limit  | Over   | Read  | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|--------|-------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV  | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |        |       | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5434.67 | 66.20  | 74.00  | -7.80  | 60.38 | 6.32         | 34.49  | 34.99  | Peak    | 280   | 304 HORIZONTAL |
| 2 | 5454.21 | 52.48  | 54.00  | -1.52  | 46.62 | 6.33         | 34.52  | 34.99  | Average | 280   | 304 HORIZONTAL |
| 3 | 5460.72 | 47.27  | 54.00  | -6.73  | 41.41 | 6.33         | 34.52  | 34.99  | Average | 280   | 304 HORIZONTAL |
| 4 | 5464.21 | 61.09  | 74.00  | -12.91 | 55.19 | 6.34         | 34.55  | 34.99  | Peak    | 280   | 304 HORIZONTAL |
| 5 | 5533.62 | 94.30  |        |        | 88.32 | 6.37         | 34.61  | 35.00  | Average | 280   | 304 HORIZONTAL |
| 6 | 5534.34 | 103.97 |        |        | 97.99 | 6.37         | 34.61  | 35.00  | Peak    | 280   | 304 HORIZONTAL |
| 7 | 5725.72 | 44.27  | 54.00  | -9.73  | 38.21 | 6.45         | 34.64  | 35.03  | Average | 280   | 304 HORIZONTAL |
| 8 | 5769.14 | 59.71  | 74.00  | -14.29 | 53.64 | 6.46         | 34.66  | 35.05  | Peak    | 280   | 304 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5530 MHz.

### Channel 122

|   | Freq    | Level  | Limit  | Over  | Read   | CableAntenna | Preamp |        | A/Pos   | T/Pos |                |
|---|---------|--------|--------|-------|--------|--------------|--------|--------|---------|-------|----------------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | Loss         | Factor | Factor | Remark  | cm    | deg            |
|   |         |        |        |       |        | dB           | dB/m   | dB     |         |       | Pol/Phase      |
| 1 | 5450.59 | 49.77  | 54.00  | -4.23 | 43.91  | 6.33         | 34.52  | 34.99  | Average | 268   | 305 HORIZONTAL |
| 2 | 5451.32 | 64.16  | 74.00  | -9.84 | 58.30  | 6.33         | 34.52  | 34.99  | Peak    | 268   | 305 HORIZONTAL |
| 3 | 5470.00 | 52.73  | 54.00  | -1.27 | 46.83  | 6.34         | 34.55  | 34.99  | Average | 268   | 305 HORIZONTAL |
| 4 | 5470.00 | 67.60  | 74.00  | -6.40 | 61.70  | 6.34         | 34.55  | 34.99  | Peak    | 268   | 305 HORIZONTAL |
| 5 | 5591.19 | 99.53  |        |       | 93.53  | 6.39         | 34.62  | 35.01  | Average | 268   | 305 HORIZONTAL |
| 6 | 5591.91 | 112.19 |        |       | 106.19 | 6.39         | 34.62  | 35.01  | Peak    | 268   | 305 HORIZONTAL |
| 7 | 5726.45 | 51.51  | 54.00  | -2.49 | 45.45  | 6.45         | 34.64  | 35.03  | Average | 268   | 305 HORIZONTAL |
| 8 | 5727.17 | 65.02  | 74.00  | -8.98 | 58.96  | 6.45         | 34.64  | 35.03  | Peak    | 268   | 305 HORIZONTAL |

Item 5, 6 are the fundamental frequency at 5610 MHz.

Note:

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

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

### Straddle Channel

|               |                                                                                                             |                |                                                               |
|---------------|-------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------|
| Temperature   | 25°C                                                                                                        | Humidity       | 55%                                                           |
| Test Engineer | Stim Sung                                                                                                   | Configurations | IEEE 802.11a CH 144 /<br>Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                               |                |                                                               |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi,<br>Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                               |

### Channel 144

|   | Freq    | Level  | Limit  | Over   | Read   | Cable | Preamp | Antenna |          | A/Pos | T/Pos | Remark  |
|---|---------|--------|--------|--------|--------|-------|--------|---------|----------|-------|-------|---------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB    | dB     | dB/m    |          | cm    | deg   |         |
| 1 | 5727.00 | 98.97  |        |        | 92.11  | 7.79  | 33.01  | 32.08   | VERTICAL | 166   | 286   | Average |
| 2 | 5727.00 | 110.96 |        |        | 104.10 | 7.79  | 33.01  | 32.08   | VERTICAL | 166   | 286   | Peak    |
| 3 | 5850.00 | 45.82  | 54.00  | -8.18  | 38.78  | 7.87  | 33.05  | 32.22   | VERTICAL | 166   | 286   | Average |
| 4 | 5850.00 | 57.96  | 74.00  | -16.04 | 50.92  | 7.87  | 33.05  | 32.22   | VERTICAL | 166   | 286   | Peak    |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 144 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

#### Channel 144

|   | Freq    | Level  | Limit  | Over   | Read   | Cable | Preamp | Antenna |            | A/Pos | T/Pos | Remark  |
|---|---------|--------|--------|--------|--------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB    | dB     | dB/m    |            | cm    | deg   |         |
| 1 | 5725.00 | 106.74 |        |        | 99.87  | 7.79  | 33.00  | 32.08   | HORIZONTAL | 258   | 68    | Average |
| 2 | 5726.00 | 116.90 |        |        | 110.03 | 7.79  | 33.00  | 32.08   | HORIZONTAL | 258   | 68    | Peak    |
| 3 | 5850.00 | 46.43  | 54.00  | -7.57  | 39.39  | 7.87  | 33.05  | 32.22   | HORIZONTAL | 258   | 68    | Average |
| 4 | 5851.00 | 58.61  | 74.00  | -15.39 | 51.57  | 7.87  | 33.05  | 32.22   | HORIZONTAL | 258   | 68    | Peak    |

Item 1, 2 are the fundamental frequency at 5720 MHz.

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 142 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

### Channel 142

|   | Freq    | Level  | Limit  | Over   | Read   | Cable | Preamp | Antenna |          | A/Pos | T/Pos | Remark  |
|---|---------|--------|--------|--------|--------|-------|--------|---------|----------|-------|-------|---------|
|   | MHz     | dBuV/m | dBuV/m | dB     | dBuV   | dB    | dB     | dB/m    |          | cm    | deg   |         |
| 1 | 5718.00 | 100.04 |        |        | 93.19  | 7.79  | 33.00  | 32.06   | VERTICAL | 312   | 54    | Average |
| 2 | 5719.00 | 109.90 |        |        | 103.05 | 7.79  | 33.00  | 32.06   | VERTICAL | 312   | 54    | Peak    |
| 3 | 5850.00 | 46.68  | 54.00  | -7.32  | 39.64  | 7.87  | 33.05  | 32.22   | VERTICAL | 312   | 54    | Average |
| 4 | 5853.00 | 57.80  | 74.00  | -16.20 | 50.76  | 7.87  | 33.05  | 32.22   | VERTICAL | 312   | 54    | Peak    |

Item 1, 2 are the fundamental frequency at 5710 MHz.

|               |                                                                                                          |                |                                                                             |
|---------------|----------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------|
| Temperature   | 25°C                                                                                                     | Humidity       | 55%                                                                         |
| Test Engineer | Stim Sung                                                                                                | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 138 / Chain 1 + Chain 2 + Chain 3+ Chain 4 |
| Test Date     | Oct. 20, 2015                                                                                            |                |                                                                             |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |                |                                                                             |

### Channel 138

|   | Freq    | Level  | Limit  | Over  | Read   | Cable | Preamp | Antenna |            | A/Pos | T/Pos | Remark  |
|---|---------|--------|--------|-------|--------|-------|--------|---------|------------|-------|-------|---------|
|   | MHz     | dBuV/m | dBuV/m | dB    | dBuV   | dB    | dB     | dB/m    |            | cm    | deg   |         |
| 1 | 5676.00 | 111.08 |        |       | 104.29 | 7.76  | 32.99  | 32.02   | HORIZONTAL | 261   | 58    | Peak    |
| 2 | 5696.00 | 100.67 |        |       | 93.85  | 7.78  | 33.00  | 32.04   | HORIZONTAL | 261   | 58    | Average |
| 3 | 5857.00 | 52.98  | 54.00  | -1.02 | 45.92  | 7.87  | 33.05  | 32.24   | HORIZONTAL | 261   | 58    | Average |
| 4 | 5857.00 | 66.63  | 74.00  | -7.37 | 59.57  | 7.87  | 33.05  | 32.24   | HORIZONTAL | 261   | 58    | Peak    |

Item 1, 2 are the fundamental frequency at 5690 MHz.



## 4.8. Frequency Stability Measurement

### 4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be  $\pm 20$  ppm maximum for the 5 GHz band (IEEE 802.11n specification).

### 4.8.2. Measuring Instruments and Setting

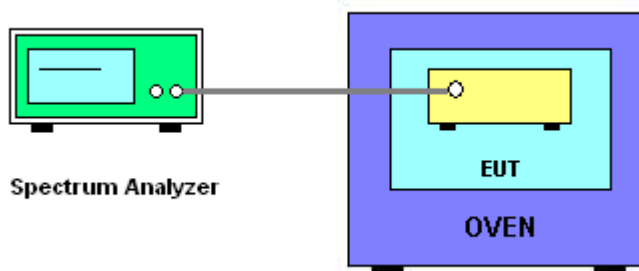
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting                                          |
|--------------------|--------------------------------------------------|
| Attenuation        | Auto                                             |
| Span Frequency     | Entire absence of modulation emissions bandwidth |
| RBW                | 10 kHz                                           |
| VBW                | 10 kHz                                           |
| Sweep Time         | Auto                                             |

### 4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5.  $f_c$  is declaring of channel frequency. Then the frequency error formula is  $(f_c - f)/f_c \times 10^6$  ppm and the limit is less than  $\pm 20$  ppm (IEEE 802.11n specification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is  $-20^\circ\text{C} \sim 50^\circ\text{C}$ .

### 4.8.4. Test Setup Layout



#### **4.8.5. Test Deviation**

There is no deviation with the original standard.

#### **4.8.6. EUT Operation during Test**

The EUT was programmed to be in continuously un-modulation transmitting mode.

#### 4.8.7. Test Result of Frequency Stability

|               |                                                                                                                                                                                                                                                                                                                                                                     |           |                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------|
| Temperature   | 25°C                                                                                                                                                                                                                                                                                                                                                                | Humidity  | 50%                           |
| Test Engineer | Eddie Weng & Lucas Huang                                                                                                                                                                                                                                                                                                                                            | Test Date | Oct. 23, 2015 ~ Nov. 05, 2015 |
| Test Mode     | Mode 1: EUT 1 + Set 1 Ceiling Mount Omni Antenna / 7 dBi<br>Mode 2: EUT 1 + Set 2 Sector Antenna / 6.5 dBi<br>Mode 3: EUT 1 + Set 3 Sector Antenna / 5.5 dBi<br>Mode 4: EUT 1 + Set 4 Sector Antenna / 7.5 dBi<br>Mode 5: EUT 1 + Set 5 Sector Antenna / 4.5 dBi<br>Mode 6: EUT 1 + Set 6 Sector Antenna / 4 dBi<br>Mode 7: EUT 1 + Set 9 Dipole Antenna / 4.67 dBi |           |                               |

Mode: 20 MHz / Chain 3

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5300 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5300.0077                   | 5300.0063 | 5300.0045 | 5300.0024 |
| 110.00               | 5300.0065                   | 5300.0052 | 5300.0036 | 5300.0017 |
| 93.50                | 5300.0051                   | 5300.0040 | 5300.0028 | 5300.0006 |
| Max. Deviation (MHz) | 0.0077                      | 0.0063    | 0.0045    | 0.0024    |
| Max. Deviation (ppm) | 1.45                        | 1.19      | 0.85      | 0.45      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5300 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5300.0119                   | 5300.0106 | 5300.0089 | 5300.0065 |
| -10                  | 5300.0104                   | 5300.0092 | 5300.0076 | 5300.0057 |
| 0                    | 5300.0090                   | 5300.0078 | 5300.0059 | 5300.0037 |
| 10                   | 5300.0077                   | 5300.0064 | 5300.0049 | 5300.0031 |
| 20                   | 5300.0065                   | 5300.0052 | 5300.0036 | 5300.0017 |
| 30                   | 5300.0051                   | 5300.0040 | 5300.0026 | 5300.0010 |
| 40                   | 5300.0035                   | 5300.0020 | 5300.0004 | 5299.9984 |
| 50                   | 5300.0018                   | 5300.0006 | 5299.9991 | 5299.9964 |
| Max. Deviation (MHz) | 0.0119                      | 0.0106    | 0.0089    | 0.0065    |
| Max. Deviation (ppm) | 2.25                        | 2.00      | 1.68      | 1.23      |
| Result               | Complies                    |           |           |           |

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5580 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5580.0042                   | 5580.0028 | 5580.0010 | 5579.9989 |
| 110.00               | 5580.0030                   | 5580.0017 | 5580.0001 | 5579.9982 |
| 93.50                | 5580.0016                   | 5580.0005 | 5579.9993 | 5579.9971 |
| Max. Deviation (MHz) | 0.0042                      | 0.0028    | 0.0010    | 0.0029    |
| Max. Deviation (ppm) | 0.75                        | 0.50      | 0.18      | 0.52      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5580 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5580.0084                   | 5580.0071 | 5580.0054 | 5580.0030 |
| -10                  | 5580.0069                   | 5580.0057 | 5580.0041 | 5580.0022 |
| 0                    | 5580.0055                   | 5580.0043 | 5580.0024 | 5580.0002 |
| 10                   | 5580.0042                   | 5580.0029 | 5580.0014 | 5579.9996 |
| 20                   | 5580.0030                   | 5580.0017 | 5580.0001 | 5579.9982 |
| 30                   | 5580.0016                   | 5580.0005 | 5579.9991 | 5579.9975 |
| 40                   | 5580.0000                   | 5579.9985 | 5579.9969 | 5579.9949 |
| 50                   | 5579.9983                   | 5579.9971 | 5579.9956 | 5579.9929 |
| Max. Deviation (MHz) | 0.0084                      | 0.0071    | 0.0054    | 0.0071    |
| Max. Deviation (ppm) | 1.51                        | 1.27      | 0.97      | 1.27      |
| Result               | Complies                    |           |           |           |

Mode: 40 MHz / Chain 3

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5310 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5310.0085                   | 5310.0071 | 5310.0053 | 5310.0032 |
| 110.00               | 5310.0073                   | 5310.0060 | 5310.0044 | 5310.0025 |
| 93.50                | 5310.0059                   | 5310.0048 | 5310.0036 | 5310.0014 |
| Max. Deviation (MHz) | 0.0085                      | 0.0071    | 0.0053    | 0.0032    |
| Max. Deviation (ppm) | 1.60                        | 1.34      | 1.00      | 0.60      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5310 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5310.0127                   | 5310.0114 | 5310.0097 | 5310.0073 |
| -10                  | 5310.0112                   | 5310.0100 | 5310.0084 | 5310.0065 |
| 0                    | 5310.0098                   | 5310.0086 | 5310.0067 | 5310.0045 |
| 10                   | 5310.0085                   | 5310.0072 | 5310.0057 | 5310.0039 |
| 20                   | 5310.0073                   | 5310.0060 | 5310.0044 | 5310.0025 |
| 30                   | 5310.0059                   | 5310.0048 | 5310.0034 | 5310.0018 |
| 40                   | 5310.0043                   | 5310.0028 | 5310.0012 | 5309.9992 |
| 50                   | 5310.0026                   | 5310.0014 | 5309.9999 | 5309.9972 |
| Max. Deviation (MHz) | 0.0127                      | 0.0114    | 0.0097    | 0.0073    |
| Max. Deviation (ppm) | 2.39                        | 2.15      | 1.83      | 1.37      |
| Result               | Complies                    |           |           |           |

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5550 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5550.0033                   | 5550.0019 | 5550.0001 | 5549.9980 |
| 110.00               | 5550.0021                   | 5550.0008 | 5549.9992 | 5549.9973 |
| 93.50                | 5550.0007                   | 5549.9996 | 5549.9984 | 5549.9962 |
| Max. Deviation (MHz) | 0.0033                      | 0.0019    | 0.0016    | 0.0038    |
| Max. Deviation (ppm) | 0.59                        | 0.34      | 0.29      | 0.68      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5550 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5550.0075                   | 5550.0062 | 5550.0045 | 5550.0021 |
| -10                  | 5550.0060                   | 5550.0048 | 5550.0032 | 5550.0013 |
| 0                    | 5550.0046                   | 5550.0034 | 5550.0015 | 5549.9993 |
| 10                   | 5550.0033                   | 5550.0020 | 5550.0005 | 5549.9987 |
| 20                   | 5550.0021                   | 5550.0008 | 5549.9992 | 5549.9973 |
| 30                   | 5550.0007                   | 5549.9996 | 5549.9982 | 5549.9966 |
| 40                   | 5549.9991                   | 5549.9976 | 5549.9960 | 5549.9940 |
| 50                   | 5549.9974                   | 5549.9962 | 5549.9947 | 5549.9920 |
| Max. Deviation (MHz) | 0.0075                      | 0.0062    | 0.0053    | 0.0080    |
| Max. Deviation (ppm) | 1.35                        | 1.12      | 0.95      | 1.44      |
| Result               | Complies                    |           |           |           |

Mode: 80 MHz / Chain 3

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5290 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5290.0038                   | 5290.0024 | 5290.0006 | 5289.9985 |
| 110.00               | 5290.0026                   | 5290.0013 | 5289.9997 | 5289.9978 |
| 93.50                | 5290.0012                   | 5290.0001 | 5289.9989 | 5289.9967 |
| Max. Deviation (MHz) | 0.0038                      | 0.0024    | 0.0011    | 0.0033    |
| Max. Deviation (ppm) | 0.72                        | 0.45      | 0.21      | 0.62      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5290 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5290.0080                   | 5290.0067 | 5290.0050 | 5290.0026 |
| -10                  | 5290.0065                   | 5290.0053 | 5290.0037 | 5290.0018 |
| 0                    | 5290.0051                   | 5290.0039 | 5290.0020 | 5289.9998 |
| 10                   | 5290.0038                   | 5290.0025 | 5290.0010 | 5289.9992 |
| 20                   | 5290.0026                   | 5290.0013 | 5289.9997 | 5289.9978 |
| 30                   | 5290.0012                   | 5290.0001 | 5289.9987 | 5289.9971 |
| 40                   | 5289.9996                   | 5289.9981 | 5289.9965 | 5289.9945 |
| 50                   | 5289.9979                   | 5289.9967 | 5289.9952 | 5289.9925 |
| Max. Deviation (MHz) | 0.0080                      | 0.0067    | 0.0050    | 0.0075    |
| Max. Deviation (ppm) | 1.51                        | 1.27      | 0.95      | 1.42      |
| Result               | Complies                    |           |           |           |



### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5530 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5530.0025                   | 5530.0011 | 5529.9993 | 5529.9972 |
| 110.00               | 5530.0013                   | 5530.0000 | 5529.9984 | 5529.9965 |
| 93.50                | 5529.9999                   | 5529.9988 | 5529.9976 | 5529.9954 |
| Max. Deviation (MHz) | 0.0025                      | 0.0012    | 0.0024    | 0.0046    |
| Max. Deviation (ppm) | 0.45                        | 0.22      | 0.43      | 0.83      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5530 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5530.0067                   | 5530.0054 | 5530.0037 | 5530.0013 |
| -10                  | 5530.0052                   | 5530.0040 | 5530.0024 | 5530.0005 |
| 0                    | 5530.0038                   | 5530.0026 | 5530.0007 | 5529.9985 |
| 10                   | 5530.0025                   | 5530.0012 | 5529.9997 | 5529.9979 |
| 20                   | 5530.0013                   | 5530.0000 | 5529.9984 | 5529.9965 |
| 30                   | 5529.9999                   | 5529.9988 | 5529.9974 | 5529.9958 |
| 40                   | 5529.9983                   | 5529.9968 | 5529.9952 | 5529.9932 |
| 50                   | 5529.9966                   | 5529.9954 | 5529.9939 | 5529.9912 |
| Max. Deviation (MHz) | 0.0067                      | 0.0054    | 0.0061    | 0.0088    |
| Max. Deviation (ppm) | 1.21                        | 0.98      | 1.10      | 1.59      |
| Result               | Complies                    |           |           |           |

|               |                                                                                                          |           |               |
|---------------|----------------------------------------------------------------------------------------------------------|-----------|---------------|
| Temperature   | 25°C                                                                                                     | Humidity  | 50%           |
| Test Engineer | Eddie Weng & Lucas Huang                                                                                 | Test Date | Oct. 20, 2015 |
| Test Mode     | Mode 8: EUT 2 + Set 10 PIFA Antenna / Chain1:5.84 dBi, Chain2:5.50 dBi, Chain3:5.84 dBi, Chain4:5.65 dBi |           |               |

Mode: 20 MHz / Chain 4

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5300 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5300.0481                   | 5300.0467 | 5300.0449 | 5300.0428 |
| 110.00               | 5300.0469                   | 5300.0456 | 5300.0440 | 5300.0421 |
| 93.50                | 5300.0455                   | 5300.0444 | 5300.0432 | 5300.0410 |
| Max. Deviation (MHz) | 0.0481                      | 0.0467    | 0.0449    | 0.0428    |
| Max. Deviation (ppm) | 9.08                        | 8.81      | 8.47      | 8.08      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5300 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5300.0523                   | 5300.0510 | 5300.0493 | 5300.0469 |
| -10                  | 5300.0508                   | 5300.0496 | 5300.0480 | 5300.0461 |
| 0                    | 5300.0494                   | 5300.0482 | 5300.0463 | 5300.0441 |
| 10                   | 5300.0481                   | 5300.0468 | 5300.0453 | 5300.0435 |
| 20                   | 5300.0469                   | 5300.0456 | 5300.0440 | 5300.0421 |
| 30                   | 5300.0455                   | 5300.0444 | 5300.0430 | 5300.0414 |
| 40                   | 5300.0439                   | 5300.0424 | 5300.0408 | 5300.0388 |
| 50                   | 5300.0422                   | 5300.0410 | 5300.0395 | 5300.0368 |
| Max. Deviation (MHz) | 0.0523                      | 0.0510    | 0.0493    | 0.0469    |
| Max. Deviation (ppm) | 9.87                        | 9.62      | 9.30      | 8.85      |
| Result               | Complies                    |           |           |           |

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5580 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5580.0599                   | 5580.0585 | 5580.0567 | 5580.0546 |
| 110.00               | 5580.0587                   | 5580.0574 | 5580.0558 | 5580.0539 |
| 93.50                | 5580.0573                   | 5580.0562 | 5580.0550 | 5580.0528 |
| Max. Deviation (MHz) | 0.0599                      | 0.0585    | 0.0567    | 0.0546    |
| Max. Deviation (ppm) | 10.73                       | 10.48     | 10.16     | 9.78      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5580 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5580.0641                   | 5580.0628 | 5580.0611 | 5580.0587 |
| -10                  | 5580.0626                   | 5580.0614 | 5580.0598 | 5580.0579 |
| 0                    | 5580.0612                   | 5580.0600 | 5580.0581 | 5580.0559 |
| 10                   | 5580.0599                   | 5580.0586 | 5580.0571 | 5580.0553 |
| 20                   | 5580.0587                   | 5580.0574 | 5580.0558 | 5580.0539 |
| 30                   | 5580.0573                   | 5580.0562 | 5580.0548 | 5580.0532 |
| 40                   | 5580.0557                   | 5580.0542 | 5580.0526 | 5580.0506 |
| 50                   | 5580.0540                   | 5580.0528 | 5580.0513 | 5580.0486 |
| Max. Deviation (MHz) | 0.0641                      | 0.0628    | 0.0611    | 0.0587    |
| Max. Deviation (ppm) | 11.49                       | 11.25     | 10.95     | 10.52     |
| Result               | Complies                    |           |           |           |

Mode: 40 MHz / Chain 4

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5310 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5310.0557                   | 5310.0543 | 5310.0525 | 5310.0504 |
| 110.00               | 5310.0545                   | 5310.0532 | 5310.0516 | 5310.0497 |
| 93.50                | 5310.0531                   | 5310.0520 | 5310.0508 | 5310.0486 |
| Max. Deviation (MHz) | 0.0557                      | 0.0543    | 0.0525    | 0.0504    |
| Max. Deviation (ppm) | 10.49                       | 10.23     | 9.89      | 9.50      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5310 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5310.0599                   | 5310.0586 | 5310.0569 | 5310.0545 |
| -10                  | 5310.0584                   | 5310.0572 | 5310.0556 | 5310.0537 |
| 0                    | 5310.0570                   | 5310.0558 | 5310.0539 | 5310.0517 |
| 10                   | 5310.0557                   | 5310.0544 | 5310.0529 | 5310.0511 |
| 20                   | 5310.0545                   | 5310.0532 | 5310.0516 | 5310.0497 |
| 30                   | 5310.0531                   | 5310.0520 | 5310.0506 | 5310.0490 |
| 40                   | 5310.0515                   | 5310.0500 | 5310.0484 | 5310.0464 |
| 50                   | 5310.0498                   | 5310.0486 | 5310.0471 | 5310.0444 |
| Max. Deviation (MHz) | 0.0599                      | 0.0586    | 0.0569    | 0.0545    |
| Max. Deviation (ppm) | 11.28                       | 11.04     | 10.72     | 10.26     |
| Result               | Complies                    |           |           |           |

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5550 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5550.0589                   | 5550.0575 | 5550.0557 | 5550.0536 |
| 110.00               | 5550.0577                   | 5550.0564 | 5550.0548 | 5550.0529 |
| 93.50                | 5550.0563                   | 5550.0552 | 5550.0540 | 5550.0518 |
| Max. Deviation (MHz) | 0.0589                      | 0.0575    | 0.0557    | 0.0536    |
| Max. Deviation (ppm) | 10.61                       | 10.36     | 10.04     | 9.66      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5550 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5550.0631                   | 5550.0618 | 5550.0601 | 5550.0577 |
| -10                  | 5550.0616                   | 5550.0604 | 5550.0588 | 5550.0569 |
| 0                    | 5550.0602                   | 5550.0590 | 5550.0571 | 5550.0549 |
| 10                   | 5550.0589                   | 5550.0576 | 5550.0561 | 5550.0543 |
| 20                   | 5550.0577                   | 5550.0564 | 5550.0548 | 5550.0529 |
| 30                   | 5550.0563                   | 5550.0552 | 5550.0538 | 5550.0522 |
| 40                   | 5550.0547                   | 5550.0532 | 5550.0516 | 5550.0496 |
| 50                   | 5550.0530                   | 5550.0518 | 5550.0503 | 5550.0476 |
| Max. Deviation (MHz) | 0.0631                      | 0.0618    | 0.0601    | 0.0577    |
| Max. Deviation (ppm) | 11.37                       | 11.14     | 10.83     | 10.40     |
| Result               | Complies                    |           |           |           |

Mode: 80 MHz / Chain 4

#### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5290 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5290.0574                   | 5290.0560 | 5290.0542 | 5290.0521 |
| 110.00               | 5290.0562                   | 5290.0549 | 5290.0533 | 5290.0514 |
| 93.50                | 5290.0548                   | 5290.0537 | 5290.0525 | 5290.0503 |
| Max. Deviation (MHz) | 0.0574                      | 0.0560    | 0.0542    | 0.0521    |
| Max. Deviation (ppm) | 10.85                       | 10.59     | 10.25     | 9.85      |
| Result               | Complies                    |           |           |           |

#### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5290 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5290.0616                   | 5290.0603 | 5290.0586 | 5290.0562 |
| -10                  | 5290.0601                   | 5290.0589 | 5290.0573 | 5290.0554 |
| 0                    | 5290.0587                   | 5290.0575 | 5290.0556 | 5290.0534 |
| 10                   | 5290.0574                   | 5290.0561 | 5290.0546 | 5290.0528 |
| 20                   | 5290.0562                   | 5290.0549 | 5290.0533 | 5290.0514 |
| 30                   | 5290.0548                   | 5290.0537 | 5290.0523 | 5290.0507 |
| 40                   | 5290.0532                   | 5290.0517 | 5290.0501 | 5290.0481 |
| 50                   | 5290.0515                   | 5290.0503 | 5290.0488 | 5290.0461 |
| Max. Deviation (MHz) | 0.0616                      | 0.0603    | 0.0586    | 0.0562    |
| Max. Deviation (ppm) | 11.64                       | 11.40     | 11.08     | 10.62     |
| Result               | Complies                    |           |           |           |

### Voltage vs. Frequency Stability

| Voltage              | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (V)                  | 5530 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| 126.50               | 5530.0383                   | 5530.0369 | 5530.0351 | 5530.0330 |
| 110.00               | 5530.0371                   | 5530.0358 | 5530.0342 | 5530.0323 |
| 93.50                | 5530.0357                   | 5530.0346 | 5530.0334 | 5530.0312 |
| Max. Deviation (MHz) | 0.0383                      | 0.0369    | 0.0351    | 0.0330    |
| Max. Deviation (ppm) | 6.93                        | 6.67      | 6.35      | 5.97      |
| Result               | Complies                    |           |           |           |

### Temperature vs. Frequency Stability

| Temperature          | Measurement Frequency (MHz) |           |           |           |
|----------------------|-----------------------------|-----------|-----------|-----------|
| (°C)                 | 5530 MHz                    |           |           |           |
|                      | 0 Minute                    | 2 Minute  | 5 Minute  | 10 Minute |
| -20                  | 5530.0425                   | 5530.0412 | 5530.0395 | 5530.0371 |
| -10                  | 5530.0410                   | 5530.0398 | 5530.0382 | 5530.0363 |
| 0                    | 5530.0396                   | 5530.0384 | 5530.0365 | 5530.0343 |
| 10                   | 5530.0383                   | 5530.0370 | 5530.0355 | 5530.0337 |
| 20                   | 5530.0371                   | 5530.0358 | 5530.0342 | 5530.0323 |
| 30                   | 5530.0357                   | 5530.0346 | 5530.0332 | 5530.0316 |
| 40                   | 5530.0341                   | 5530.0326 | 5530.0310 | 5530.0290 |
| 50                   | 5530.0324                   | 5530.0312 | 5530.0297 | 5530.0270 |
| Max. Deviation (MHz) | 0.0425                      | 0.0412    | 0.0395    | 0.0371    |
| Max. Deviation (ppm) | 7.69                        | 7.45      | 7.14      | 6.71      |
| Result               | Complies                    |           |           |           |



## **4.9. Antenna Requirements**

### **4.9.1. Limit**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### **4.9.2. Antenna Connector Construction**

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

## 5. LIST OF MEASURING EQUIPMENTS

| Instrument        | Manufacturer | Model No.        | Serial No.  | Characteristics | Calibration Date | Remark                |
|-------------------|--------------|------------------|-------------|-----------------|------------------|-----------------------|
| EMI Test Receiver | R&S          | ESCS 30          | 100355      | 9kHz ~ 2.75GHz  | Apr. 22, 2015    | Conduction (CO01-CB)  |
| LISN              | F.C.C.       | FCC-LISN-50-16-2 | 04083       | 150kHz ~ 100MHz | Dec. 02, 2014    | Conduction (CO01-CB)  |
| LISN              | Schwarzbeck  | NSLK 8127        | 8127647     | 9kHz ~ 30MHz    | Dec. 02, 2014    | Conduction (CO01-CB)  |
| COND Cable        | Woken        | Cable            | 01          | 150kHz ~ 30MHz  | Dec. 03, 2014    | Conduction (CO01-CB)  |
| Software          | Audix        | E3               | 6.120210n   | -               | N.C.R.           | Conduction (CO01-CB)  |
| BILOG ANTENNA     | Schaffner    | CBL6112D         | 22021       | 20MHz ~ 2GHz    | May 06, 2015     | Radiation (03CH01-CB) |
| Loop Antenna      | Teseq        | HLA 6120         | 24155       | 9kHz - 30 MHz   | Mar. 12, 2015*   | Radiation (03CH01-CB) |
| Horn Antenna      | EMCO         | 3115             | 00075790    | 750MHz ~ 18GHz  | Oct. 28, 2014    | Radiation (03CH01-CB) |
| Horn Antenna      | EMCO         | 3115             | 00075790    | 750MHz ~ 18GHz  | Oct. 22, 2015    | Radiation (03CH01-CB) |
| Horn Antenna      | Schwarzbeck  | BBHA 9170        | BBHA9170252 | 15GHz ~ 40GHz   | Jul. 21, 2015    | Radiation (03CH01-CB) |
| Pre-Amplifier     | Agilent      | 8447D            | 2944A10991  | 0.1MHz ~ 1.3GHz | Feb. 24, 2015    | Radiation (03CH01-CB) |
| Pre-Amplifier     | Agilent      | 8449B            | 3008A02310  | 1GHz ~ 26.5GHz  | Jan. 12, 2015    | Radiation (03CH01-CB) |
| Pre-Amplifier     | WM           | TF-130N-R1       | 923365      | 26GHz ~ 40GHz   | Feb.10, 2015     | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S          | FSP40            | 100056      | 9kHz ~ 40GHz    | Nov. 06, 2014    | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S          | FSP40            | 100056      | 9kHz ~ 40GHz    | Oct. 27, 2015    | Radiation (03CH01-CB) |
| EMI Receiver      | Agilent      | N9038A           | MY52260123  | 9kHz ~ 8.4GHz   | Jan. 21, 2015    | Radiation (03CH01-CB) |
| RF Cable-low      | Woken        | Low Cable-1      | N/A         | 30 MHz ~ 1 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16    | N/A         | 1 GHz ~ 18 GHz  | Nov. 15, 2014    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-16    | N/A         | 1 GHz ~ 18 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-17    | N/A         | 1 GHz ~ 18 GHz  | Nov. 15, 2014    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-17    | N/A         | 1 GHz ~ 18 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-1 | N/A         | 1 GHz ~ 40 GHz  | Nov. 15, 2014    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-1 | N/A         | 18GHz ~ 40 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-2 | N/A         | 1 GHz ~ 40 GHz  | Nov. 15, 2014    | Radiation (03CH01-CB) |
| RF Cable-high     | Woken        | High Cable-40G-2 | N/A         | 18GHz ~ 40 GHz  | Nov. 02, 2015    | Radiation (03CH01-CB) |
| Test Software     | Audix        | E3               | 6.2009-10-7 | N/A             | N/A              | Radiation (03CH01-CB) |

| Instrument                 | Manufacturer | Model No. | Serial No.    | Characteristics  | Calibration Date | Remark              |
|----------------------------|--------------|-----------|---------------|------------------|------------------|---------------------|
| Spectrum analyzer          | R&S          | FSV40     | 100979        | 9kHz~40GHz       | Dec. 12, 2014    | Conducted (TH01-CB) |
| Temp. and Humidity Chamber | Ten Billion  | TTH-D3SP  | TBN-931011    | -30~100 degree   | Jun. 02, 2015    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-7  | 1 GHz – 26.5 GHz | Nov. 15, 2014    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-7  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-8  | 1 GHz – 26.5 GHz | Nov. 15, 2014    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-8  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-9  | 1 GHz – 26.5 GHz | Nov. 15, 2014    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-9  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 15, 2014    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-6  | 1 GHz – 26.5 GHz | Nov. 15, 2014    | Conducted (TH01-CB) |
| RF Cable-high              | Woken        | RG402     | High Cable-6  | 1 GHz – 26.5 GHz | Nov. 02, 2015    | Conducted (TH01-CB) |
| Power Sensor               | Agilent      | U2021XA   | MY53410001    | 50MHz~18GHz      | Nov. 03, 2014    | Conducted (TH01-CB) |
| Power Sensor               | Agilent      | U2021XA   | MY53410001    | 50MHz~18GHz      | Nov. 02, 2015    | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.

“\*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.

## 6. MEASUREMENT UNCERTAINTY

| Test Items                           | Uncertainty | Remark                   |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz)  | 3.2 dB      | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB      | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz)     | 3.7 dB      | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz)    | 3.5 dB      | Confidence levels of 95% |
| Conducted Emission                   | 1.7 dB      | Confidence levels of 95% |