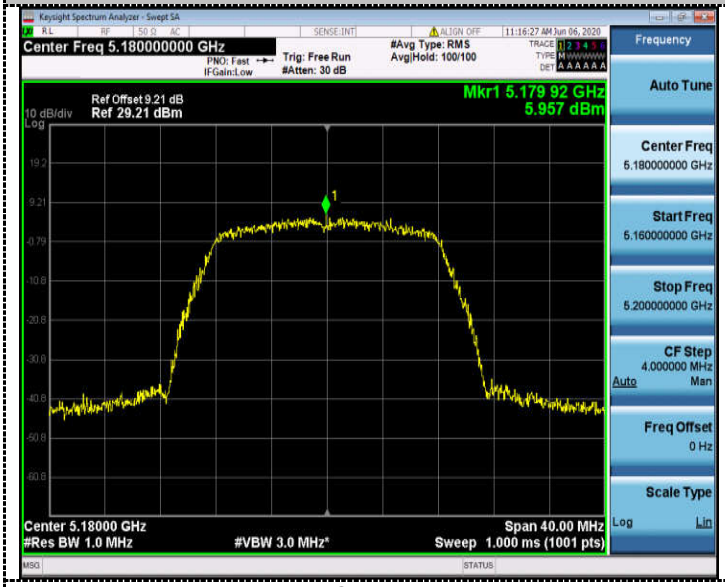
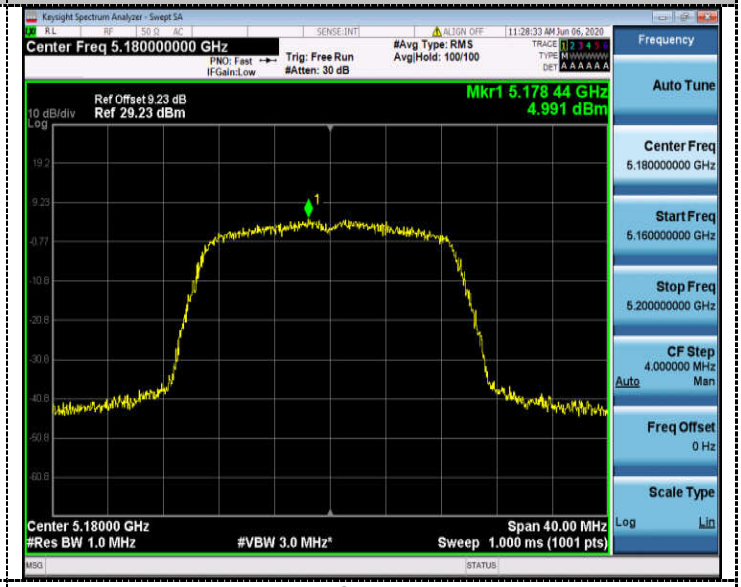
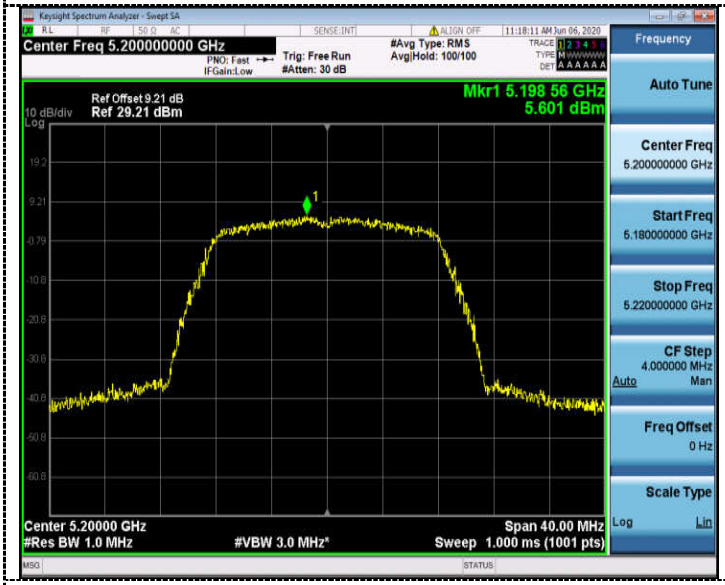
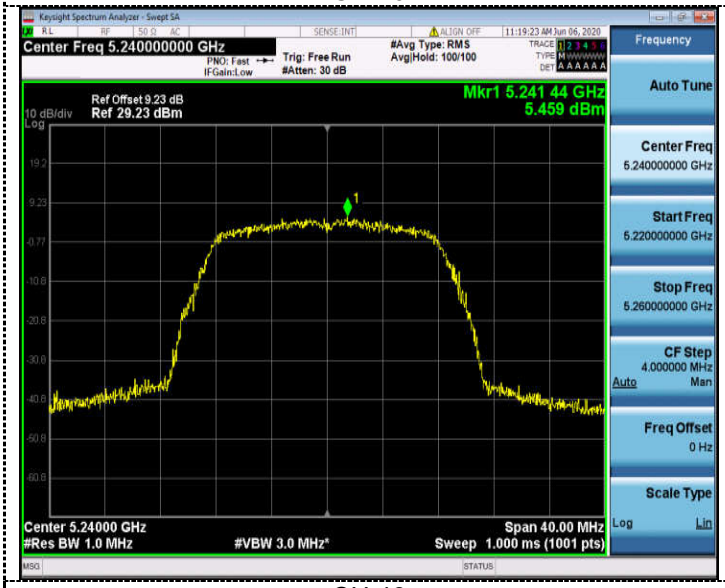
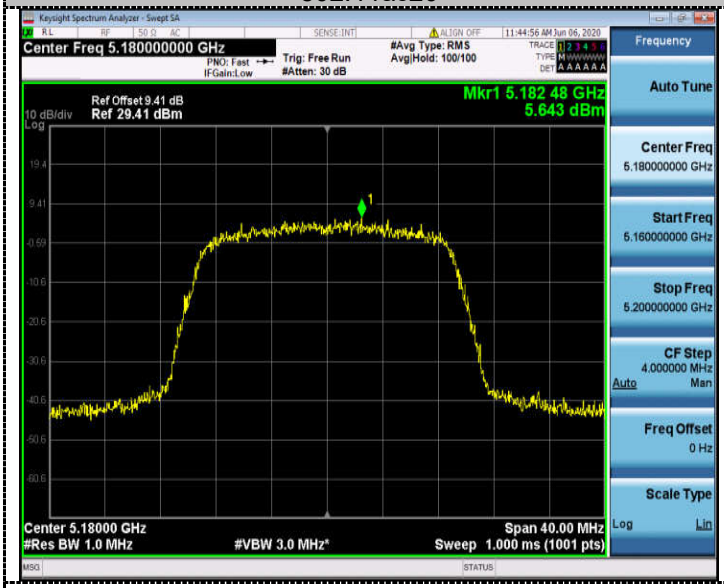
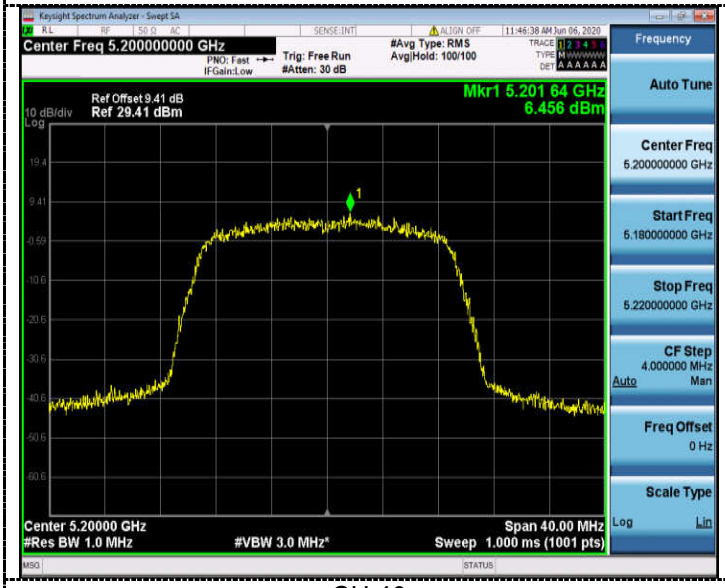
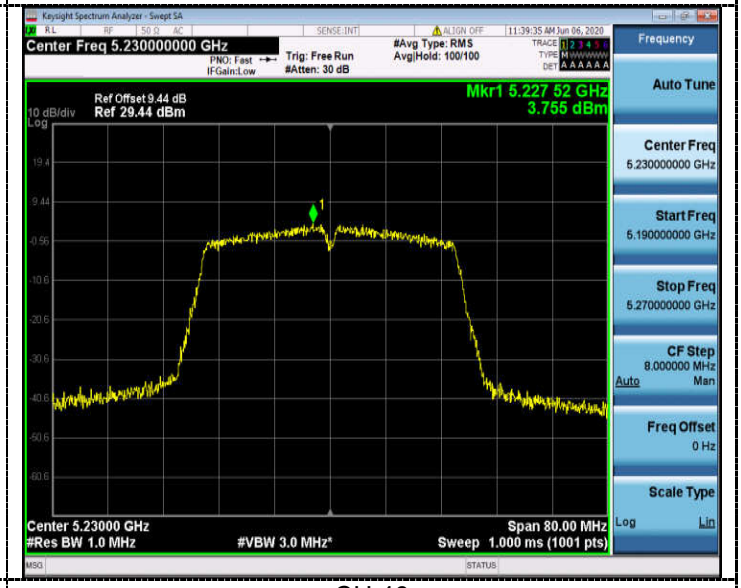
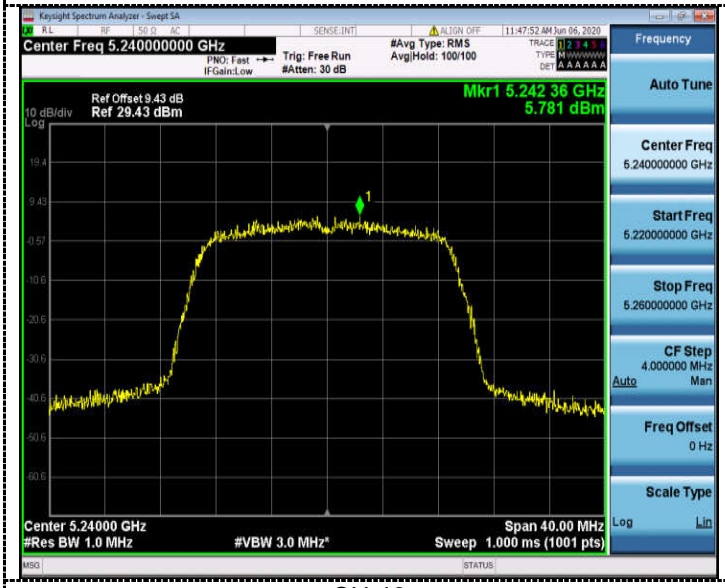
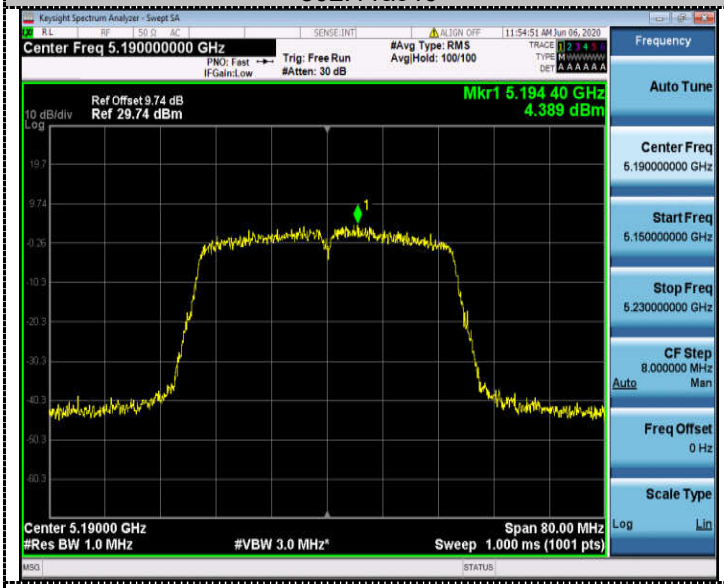
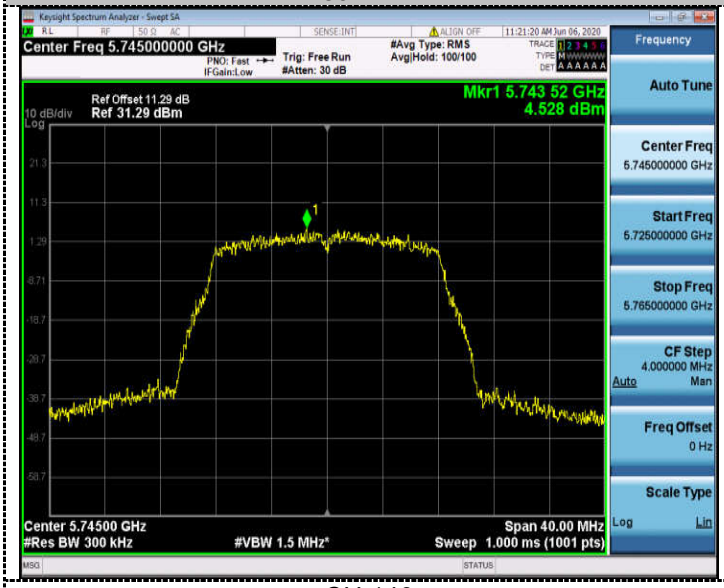
**Antenna 3:**
**5150-5250MHz:**

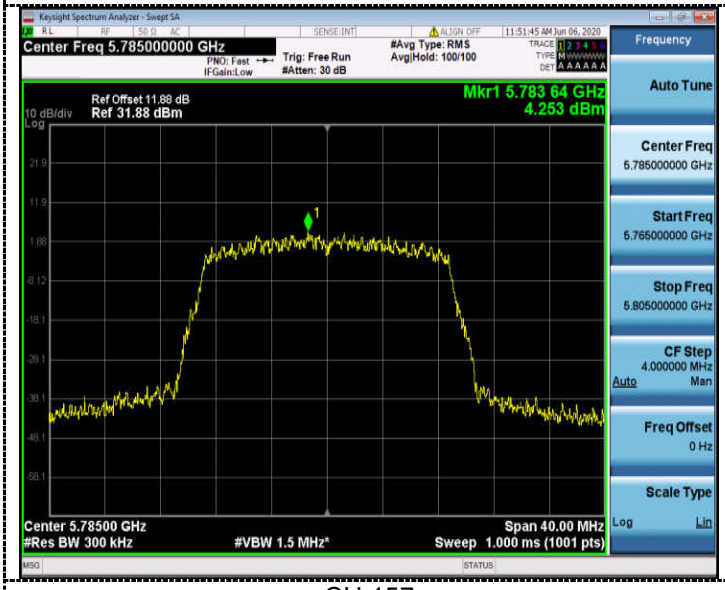
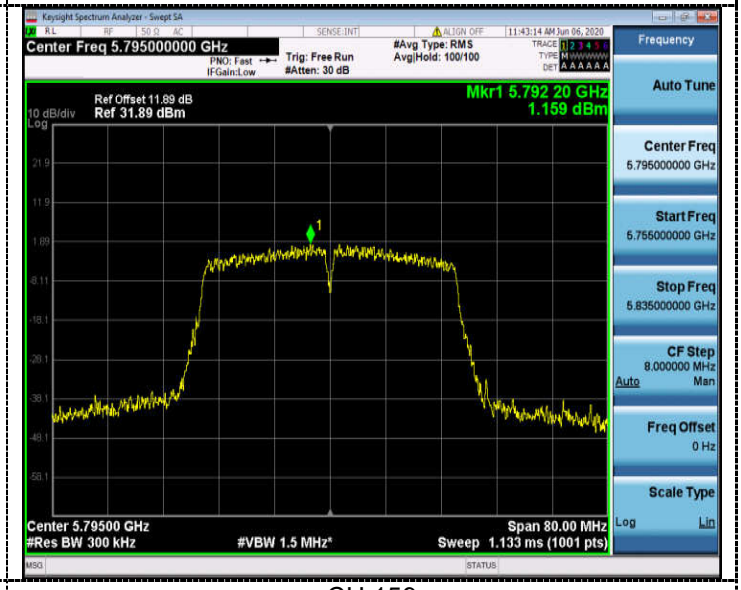
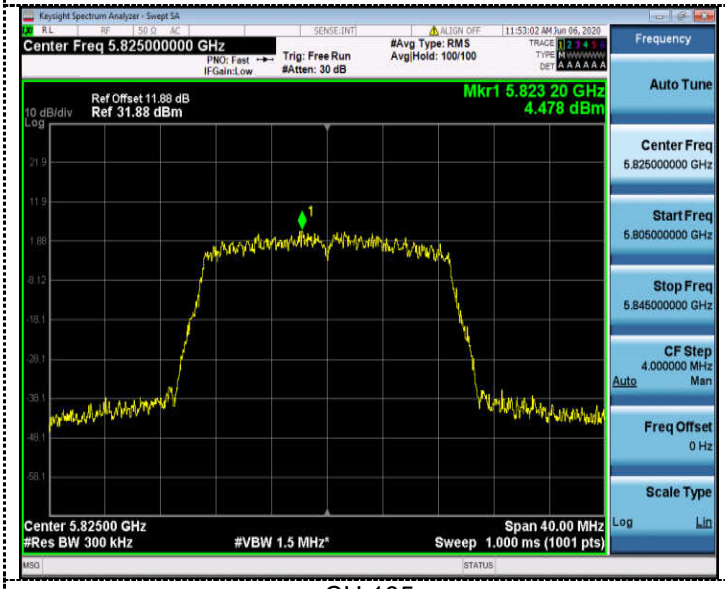
| 802.11a | 802.11n HT20 |
|---|---|
|  |  |
| CH 36 | CH 36 |
|  |  |
| CH 40 | CH 40 |
|  |  |
| CH 48 | CH 48 |

| 802.11ac20 | 802.11n HT40 |
|---|---|
|  |  |
| CH 36 | CH 38 |
|  |  |
| CH 40 | CH 46 |
|  | |
| CH 48 | |

| 802.11ac40 | 802.11ac80 |
| --- | --- |
|  |  |
| CH 38 | *CH 42* |
|  | |
| CH 46 | |

**5725-5850MHz:**

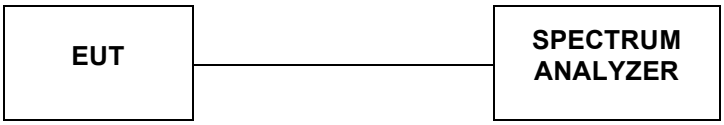
| 802.11a | 802.11n HT20 |
|---|---|
|  |  |
| CH 149 | CH 149 |
|  |  |
| CH 157 | CH 157 |
|  |  |
| CH 165 | CH 165 |

| 802.11ac20 | 802.11n HT40 |
| --- | --- |
|  |  |
| CH 149 | CH 151 |
|  |  |
| CH 157 | CH 159 |
|  | |
| CH 165 | |

| 802.11ac40 | 802.11ac80 |
| --- | --- |
|  |  |
| CH 151 | *CH 155* |
|  | |
| CH 159 | |

## 4.6. 6dB Bandwidth

**TEST CONFIGURATION**




**TEST PROCEDURE**

According to KDB789033 D02 General UNII Test Procedures New Rules v01 for one of the following procedures may be used for section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

a. Set RBW = 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 × RBW
c. Detector = Peak.
d. Trace mode = max hold.
e. Sweep = auto couple.
f. Allow the trace to stabilize
g. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

**LIMIT**

For Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz

**TEST RESULTS**

| Temperature | 23.7℃ | Humidity | 55.4% |
|---|---|---|---|
| Test Engineer | Moon Tan | Configurations | IEEE 802.11a/n/ac |

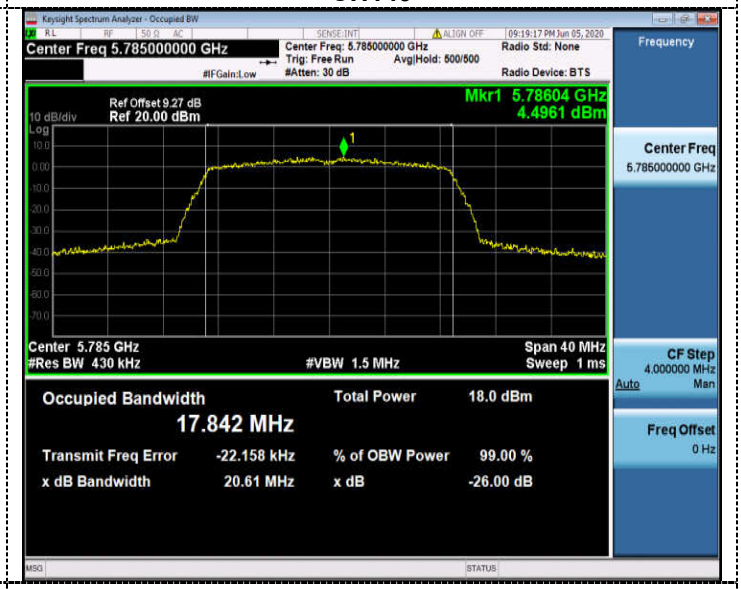
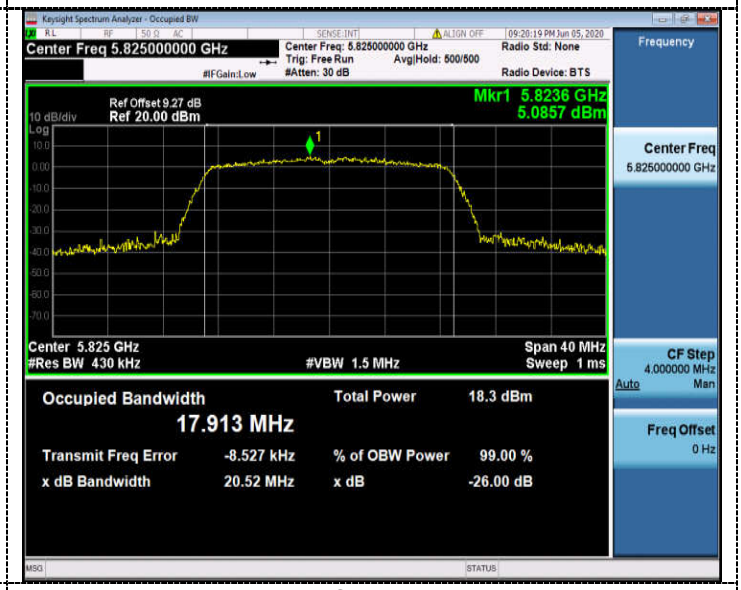
**Antenna 2:**

| Type | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|---|---|---|---|---|---|
| 802.11a | 149 | 16.878 | 15.080 | ≥500 | Pass |
| | 157 | 16.897 | 15.120 | | |
| | 165 | 16.954 | 15.200 | | |
| 802.11nHT20 | 149 | 17.853 | 15.200 | ≥500 | Pass |
| | 157 | 17.842 | 15.160 | | |
| | 165 | 17.913 | 15.160 | | |
| 802.11ac20 | 149 | 17.715 | 15.760 | ≥500 | Pass |
| | 157 | 17.732 | 15.160 | | |
| | 165 | 17.685 | 15.760 | | |
| 802.11n40 | 151 | 36.286 | 35.280 | ≥500 | Pass |
| | 159 | 36.339 | 35.280 | | |
| 802.11ac40 | 151 | 36.127 | 35.280 | ≥500 | Pass |
| | 159 | 36.197 | 35.280 | | |
| 802.11ac80 | 155 | 75.341 | 75.520 | ≥500 | Pass |

**Antenna 3:**

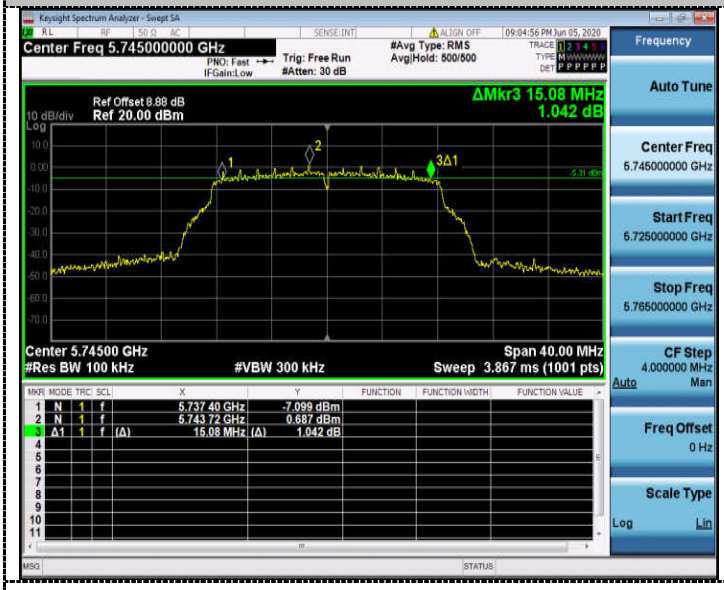
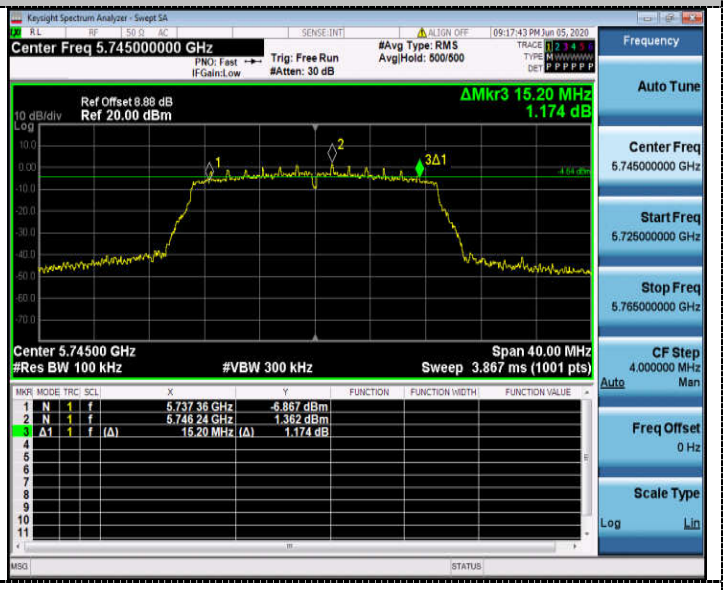
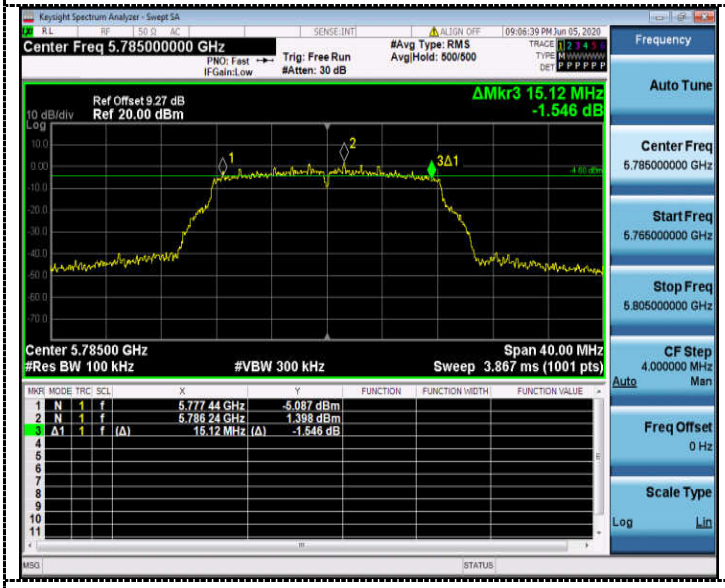
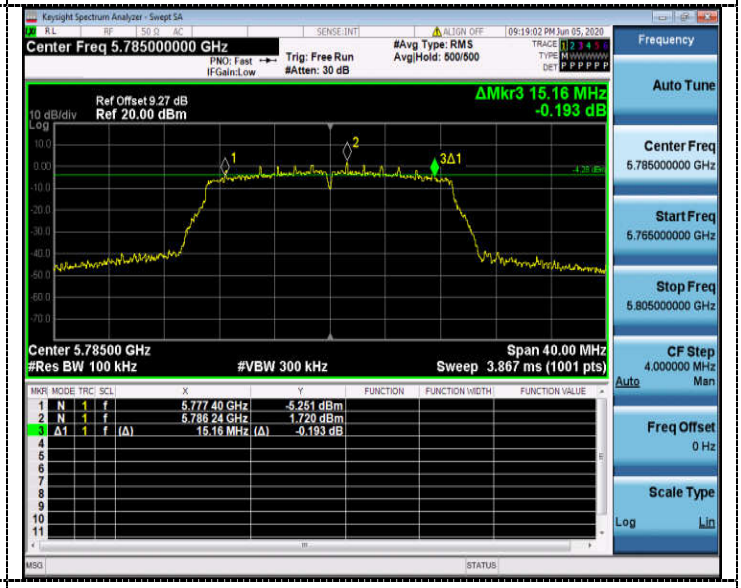
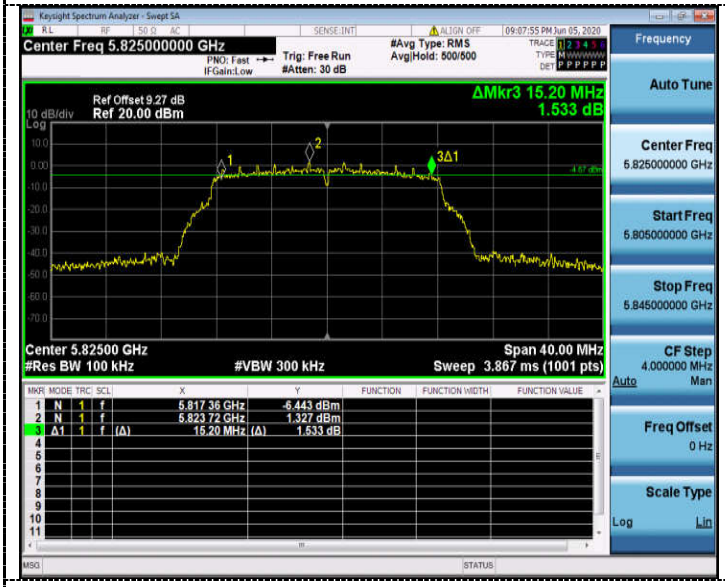
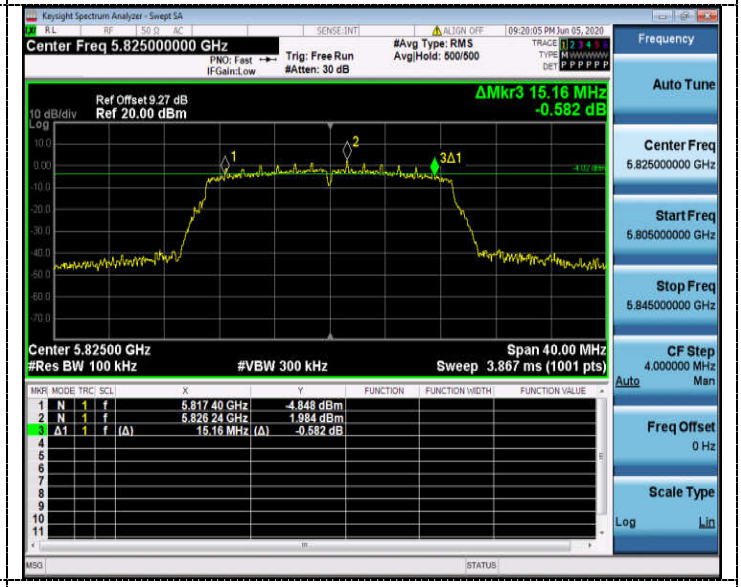
| Type | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|---|---|---|---|---|---|
| 802.11a | 149 | 16.912 | 15.200 | ≥500 | Pass |
| | 157 | 16.943 | 15.200 | | |
| | 165 | 16.915 | 15.200 | | |
| 802.11nHT20 | 149 | 17.846 | 15.120 | ≥500 | Pass |
| | 157 | 17.851 | 15.200 | | |
| | 165 | 17.834 | 15.160 | | |
| 802.11ac20 | 149 | 17.709 | 15.200 | ≥500 | Pass |
| | 157 | 17.699 | 15.200 | | |
| | 165 | 17.682 | 15.200 | | |
| 802.11n40 | 151 | 36.341 | 35.280 | ≥500 | Pass |
| | 159 | 36.263 | 35.280 | | |
| 802.11ac40 | 151 | 36.171 | 35.280 | ≥500 | Pass |
| | 159 | 36.137 | 35.280 | | |
| 802.11ac80 | 155 | 75.285 | 75.520 | ≥500 | Pass |

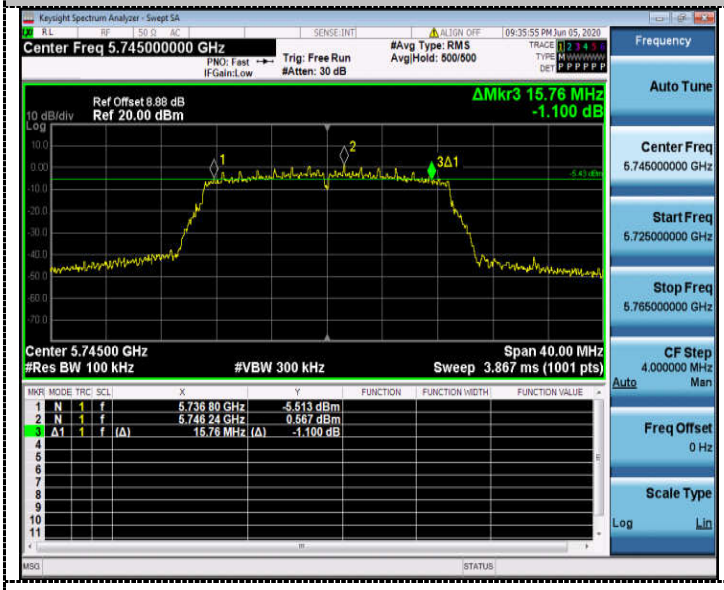
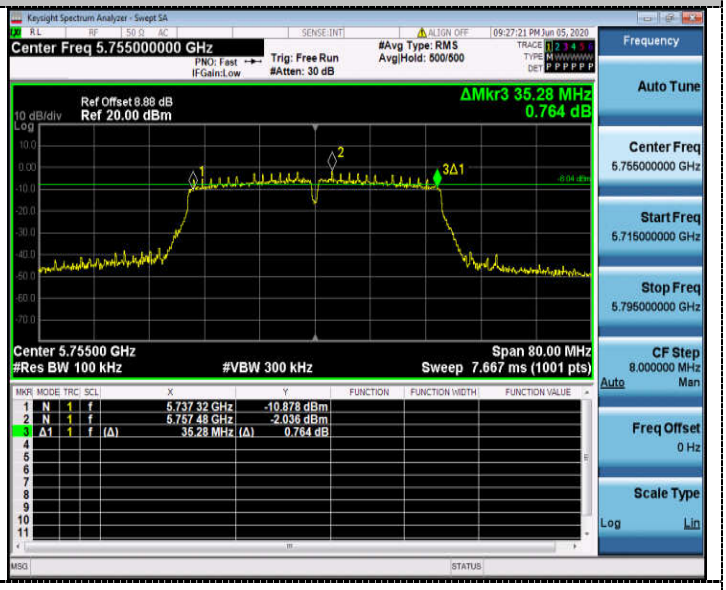
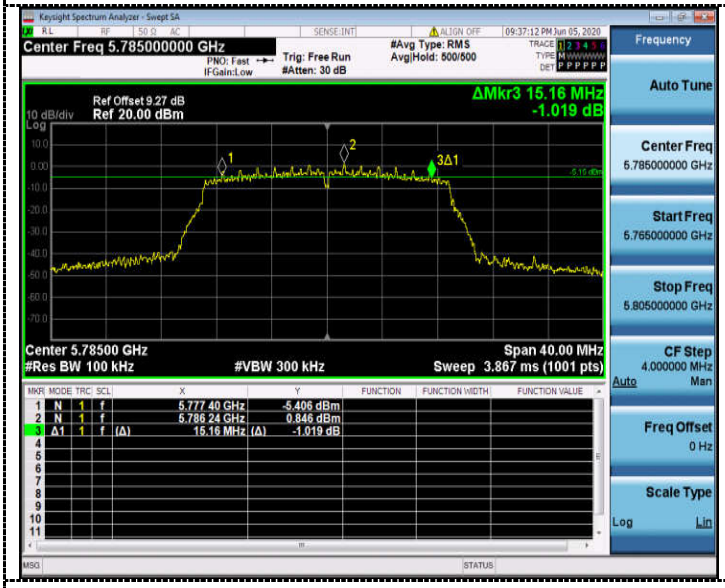
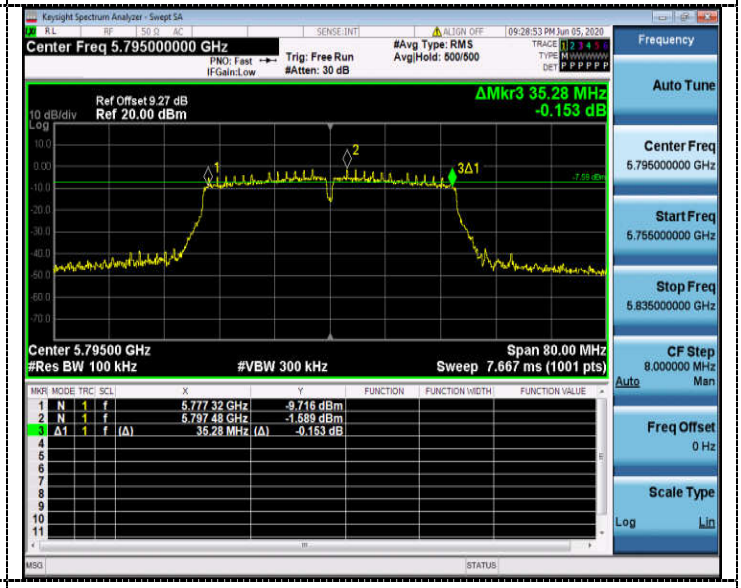
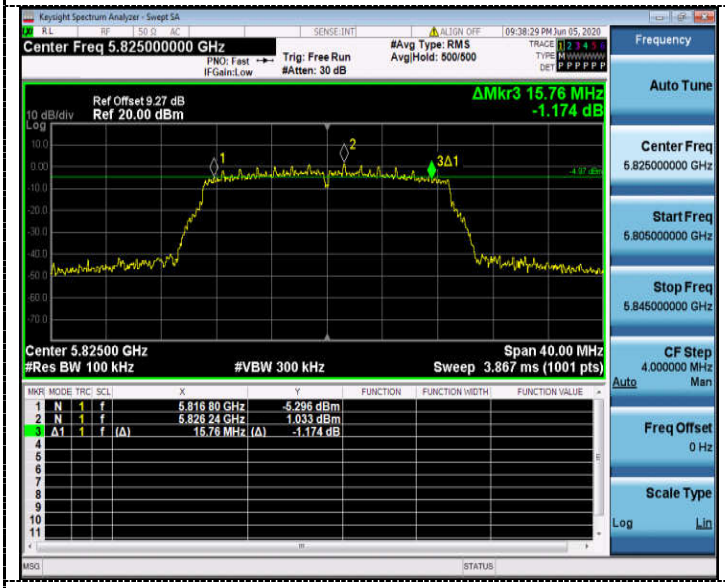
**Antenna 2:**

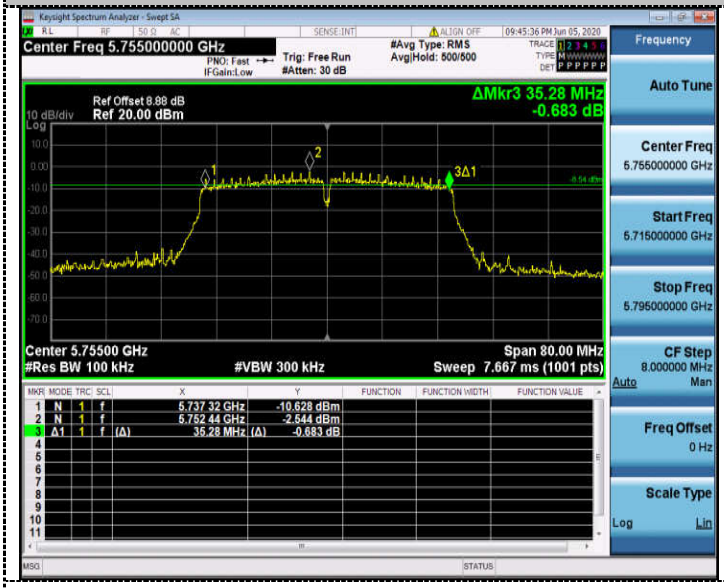
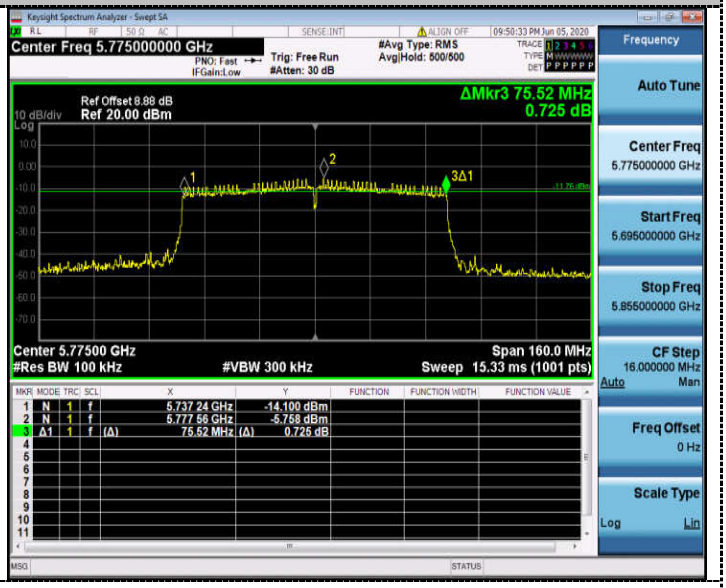
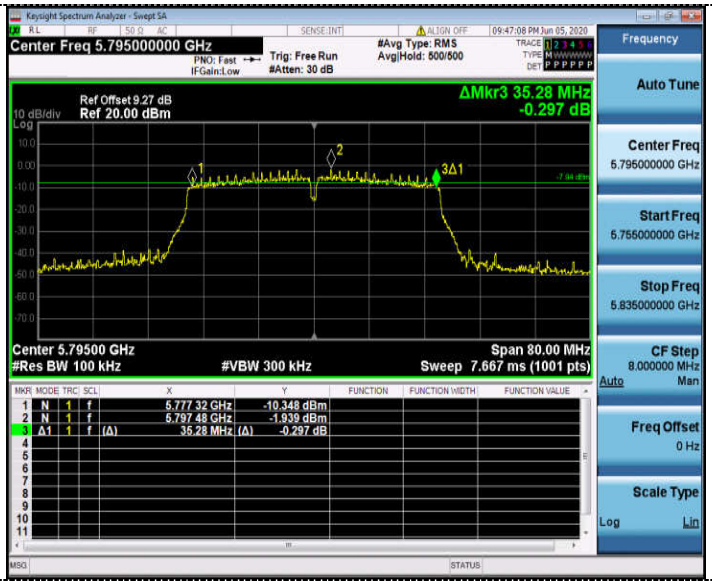
| 99%Bandwidth | |
|---|---|
| **802.11a** | **802.11n HT20** |
|  |  |
| **CH149** | **CH149** |
|  |  |
| **CH157** | **CH157** |
|  |  |
| **CH165** | **CH165** |

| 99%Bandwidth | |
|---|---|
| 802.11ac20 | 802.11n HT40 |
|  |  |
| CH149 | CH151 |
|  |  |
| CH157 | CH159 |
|  | |
| CH165 | |

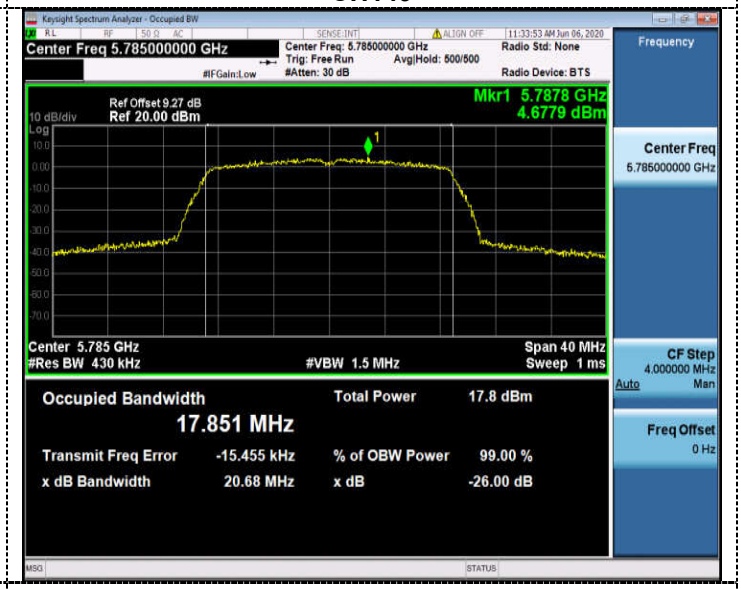
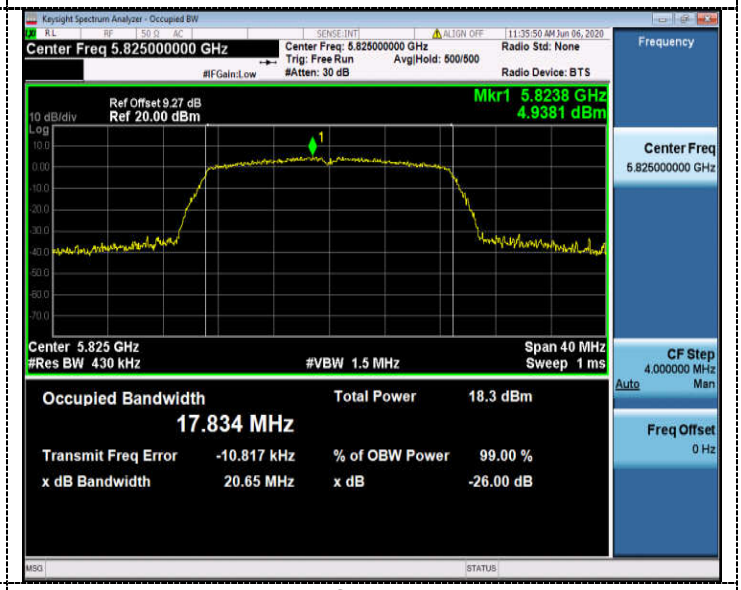
| 99%Bandwidth | |
|---|---|
| 802.11ac40 | 802.11ac80 |
|  |  |
| CH151 | CH155 |
|  | |
| CH159 | |

| 6dB Bandwidth | |
|---|---|
| 802.11a | 802.11n HT20 |
|  |  |
| CH149 | CH149 |
|  |  |
| CH157 | CH157 |
|  |  |
| CH165 | CH165 |

| 6dB Bandwidth | |
|---|---|
| 802.11ac20 | 802.11n HT40 |
|  |  |
| CH149 | CH151 |
|  |  |
| CH157 | CH159 |
|  | |
| CH165 | |

| 6dB Bandwidth | |
|---|---|
| 802.11ac40 | 802.11ac80 |
|  |  |
| CH151 | CH155 |
|  | |
| CH159 | |

**Antenna 3:**

| 99%Bandwidth | |
|---|---|
| **802.11a** | **802.11n HT20** |
|  |  |
| **CH149** | **CH149** |
|  |  |
| **CH157** | **CH157** |
|  |  |
| **CH165** | **CH165** |

| 99%Bandwidth | |
|---|---|
| 802.11ac20 | 802.11n HT40 |
|  |  |
| CH149 | CH151 |
|  |  |
| CH157 | CH159 |
|  | |
| CH165 | |

| 99%Bandwidth | |
|---|---|
| 802.11ac40 | 802.11ac80 |
|  |  |
| CH151 | CH155 |
|  | |
| CH159 | |