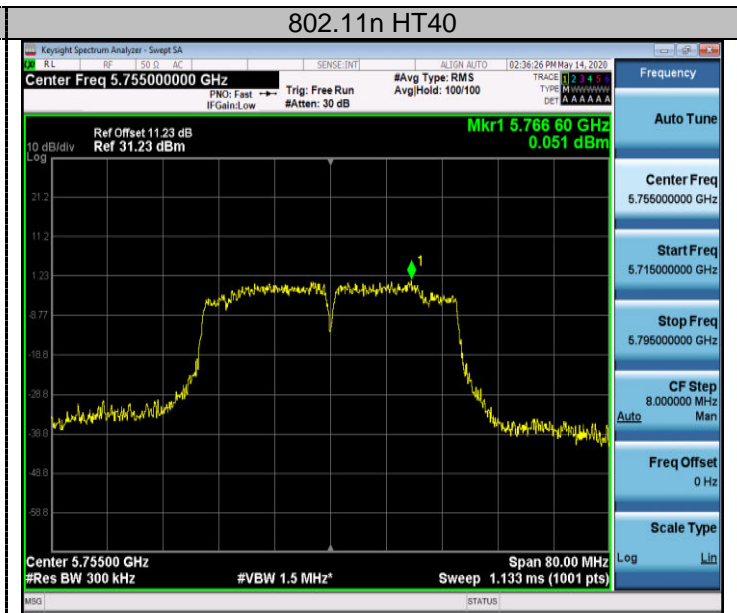
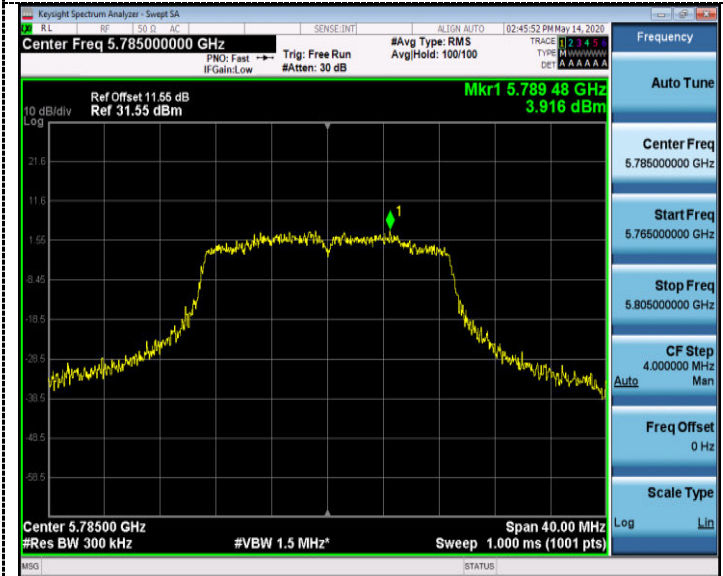


CH 149



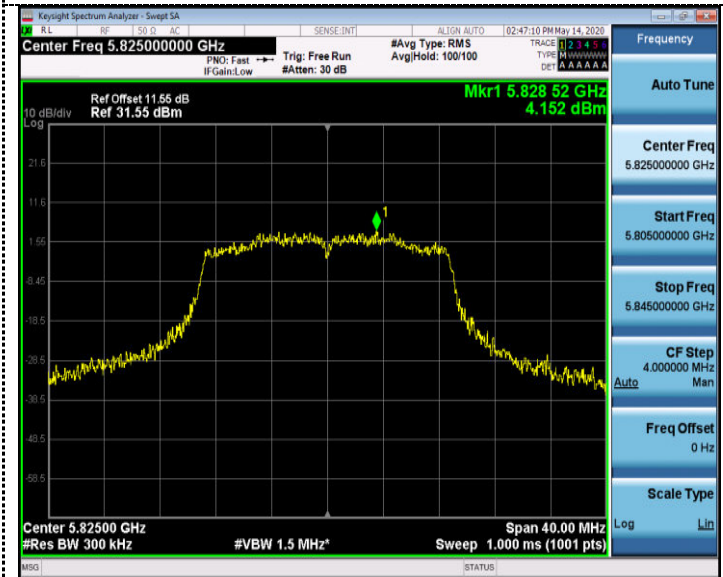
CH 151



CH 157



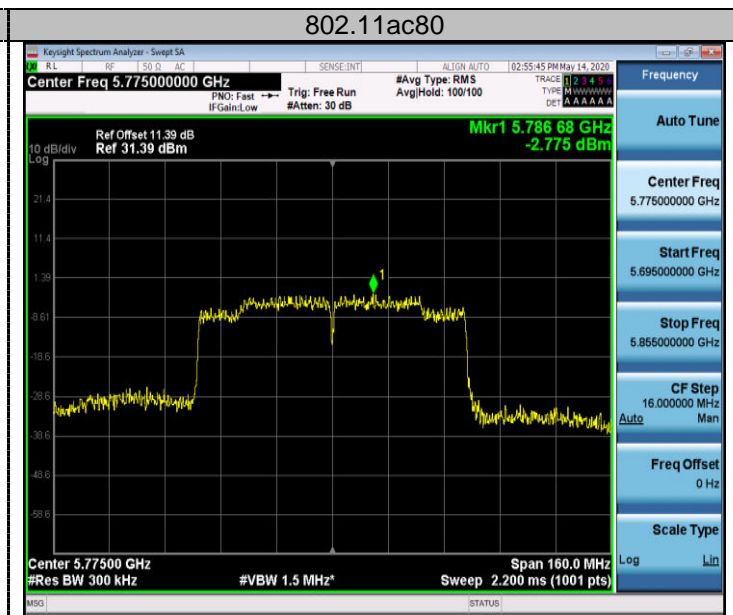
CH 159



CH 165



CH 151

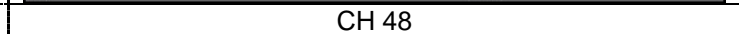
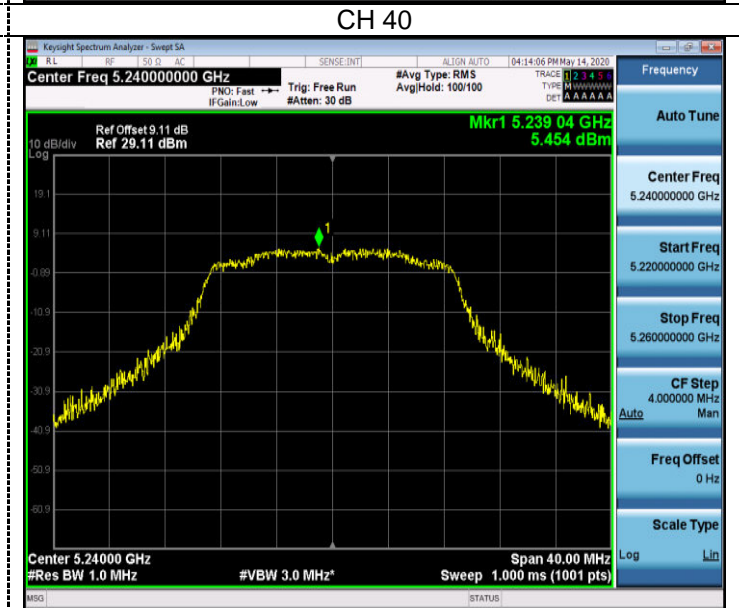
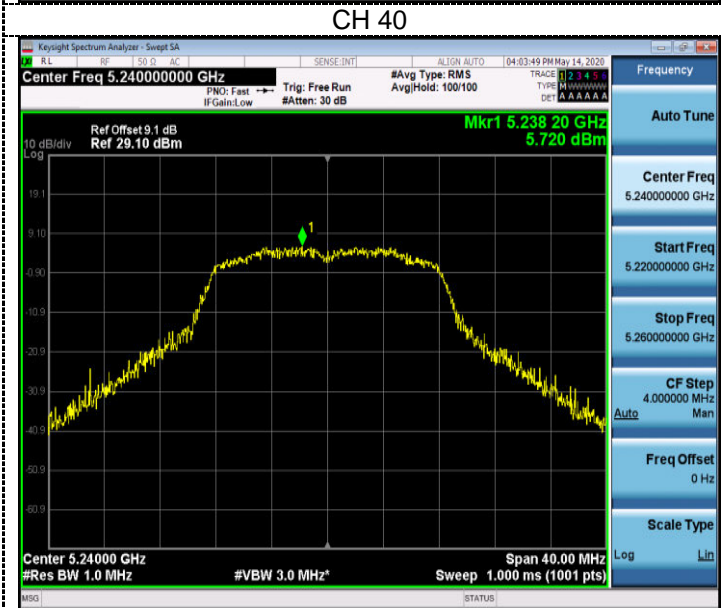
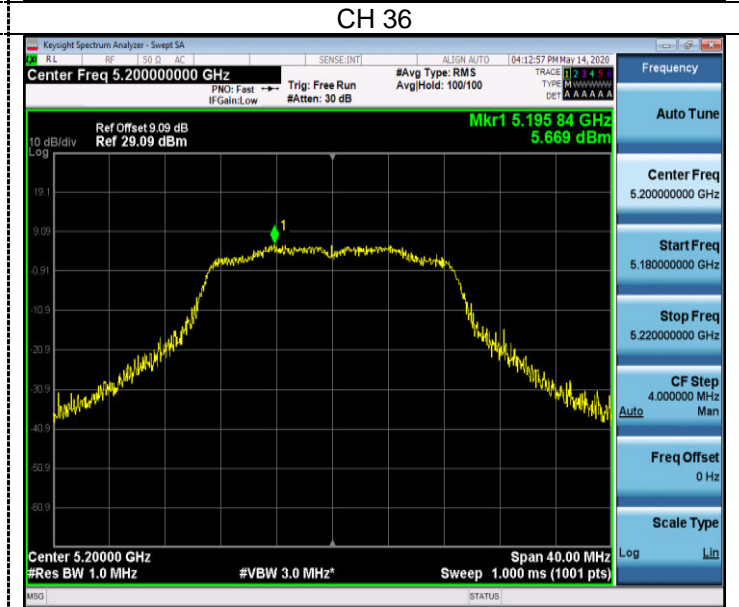
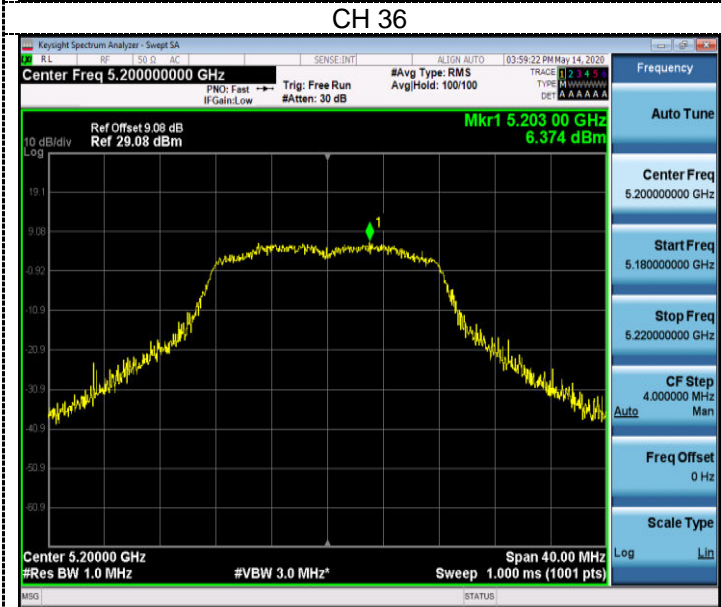
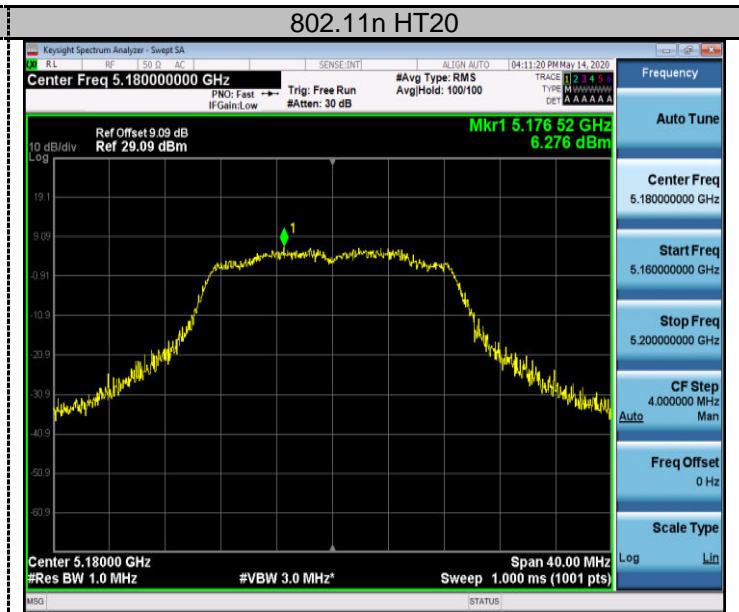
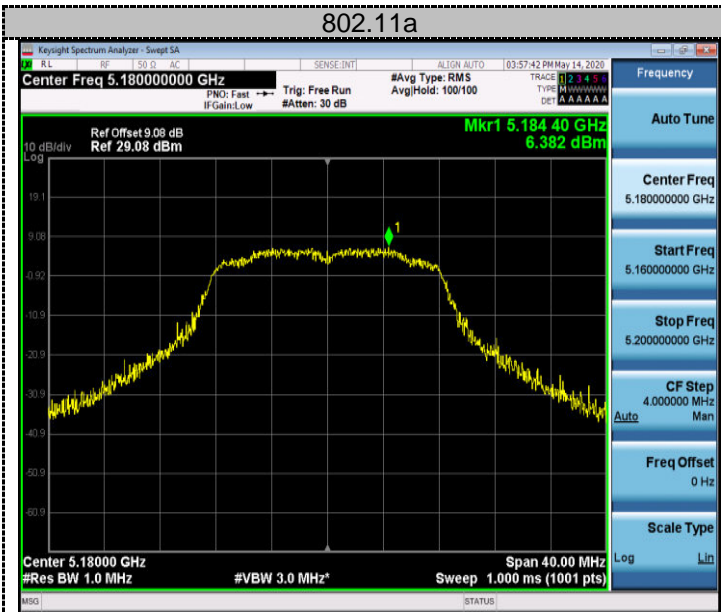


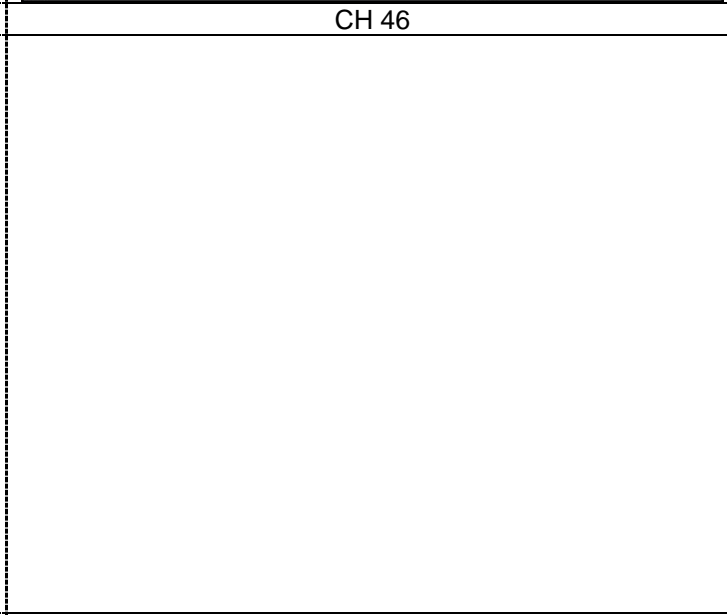
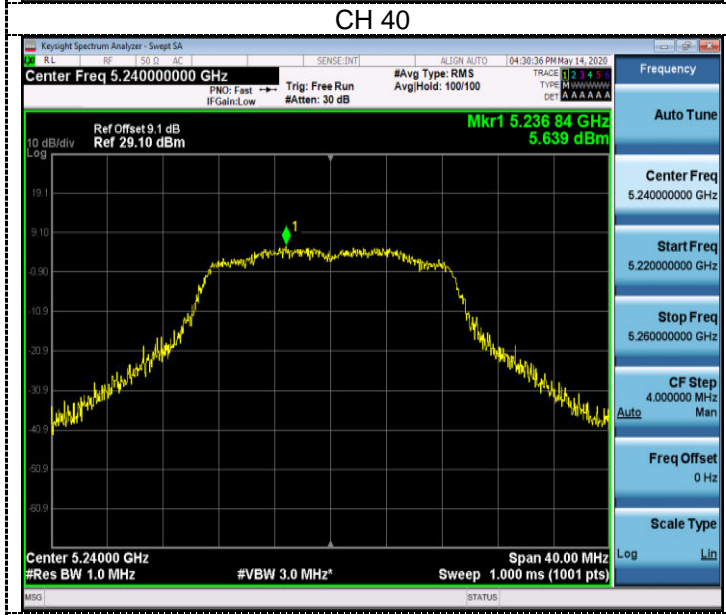
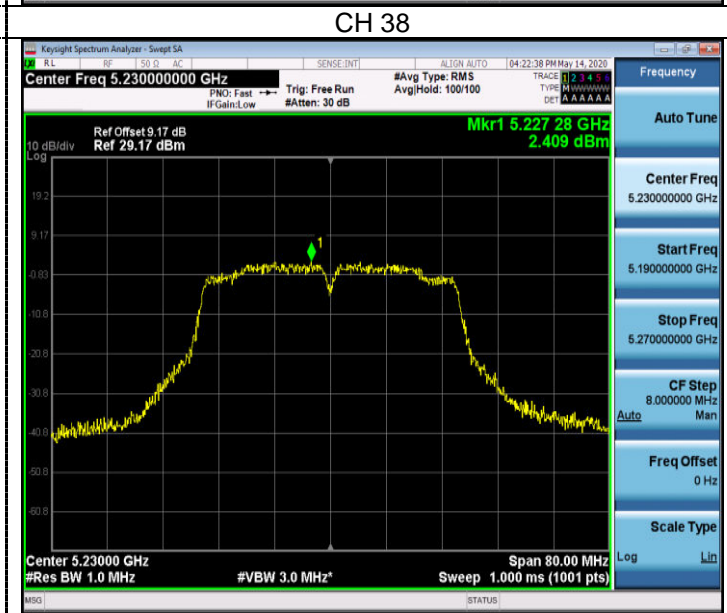
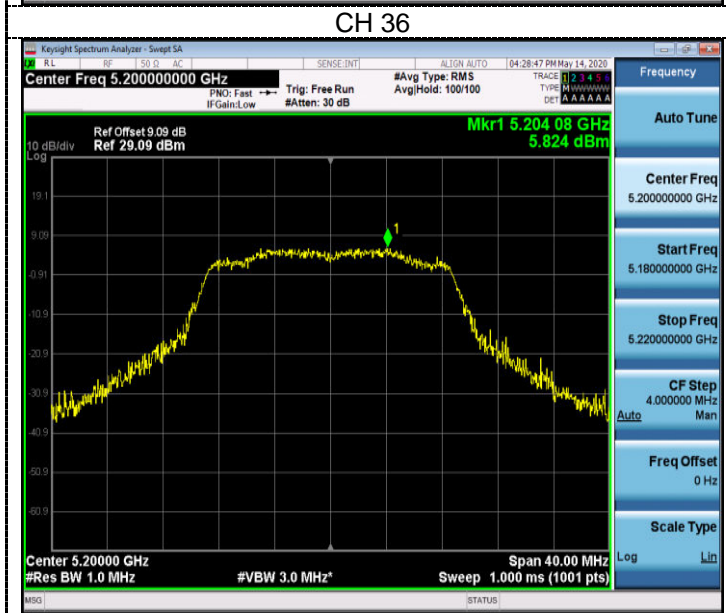
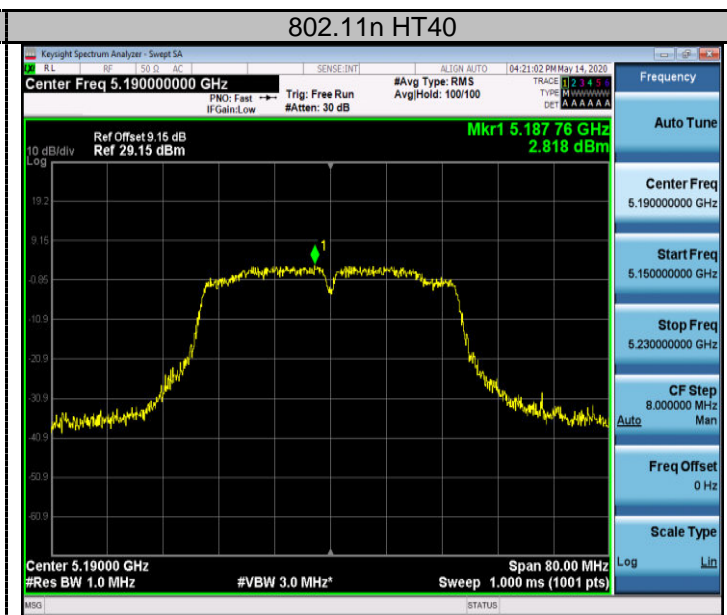
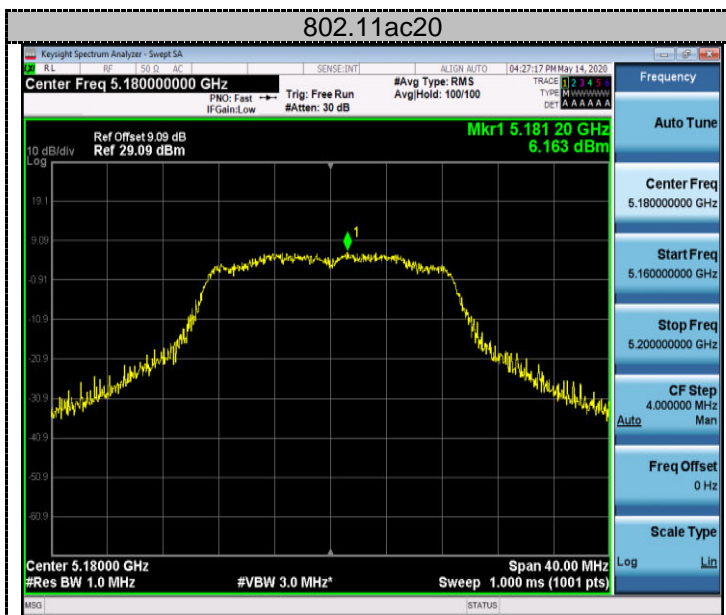
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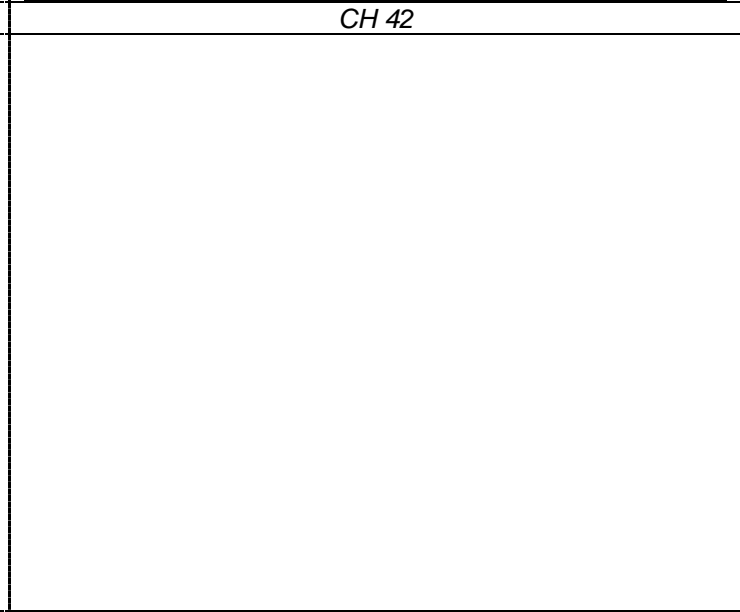
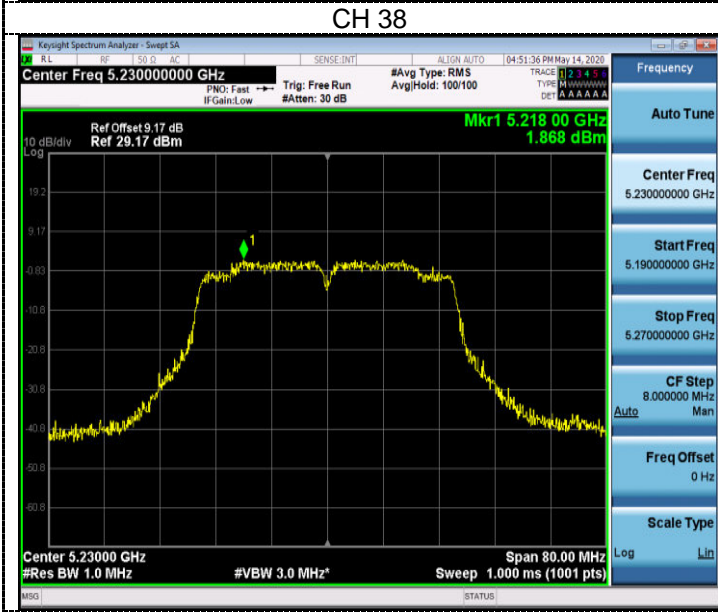
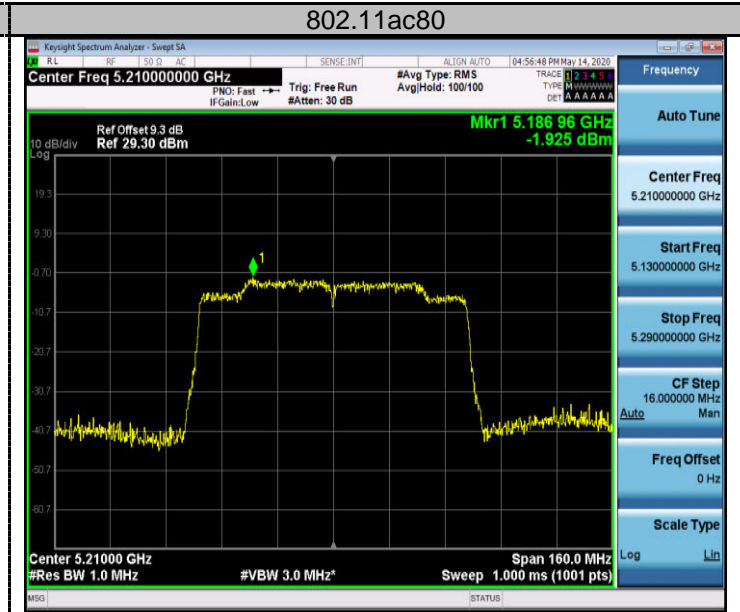
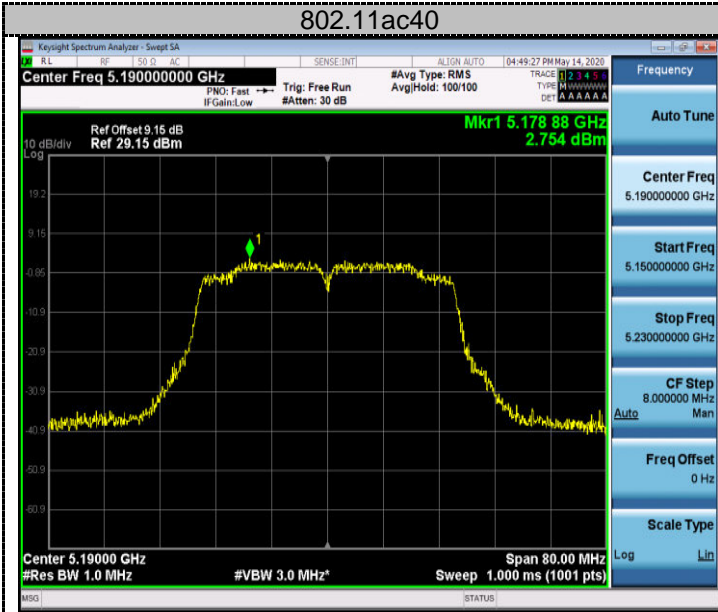
CH 159

Antenna 1:  
1510-5250MHz:



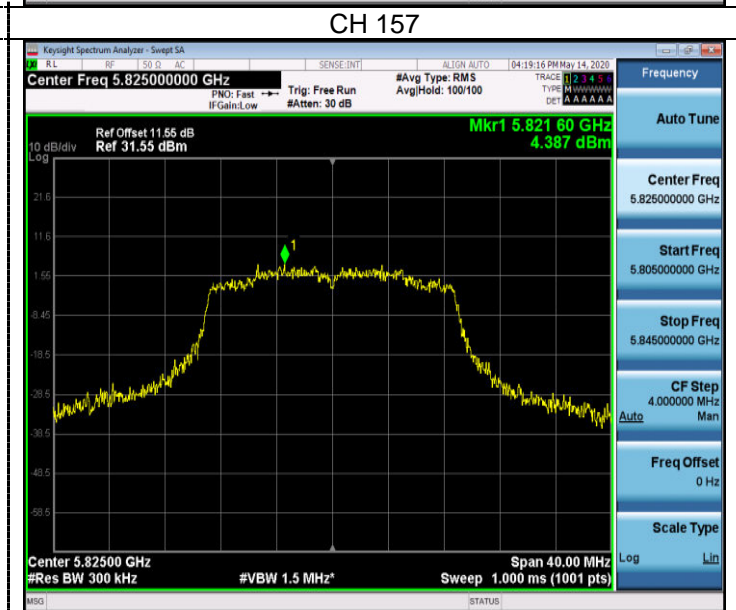
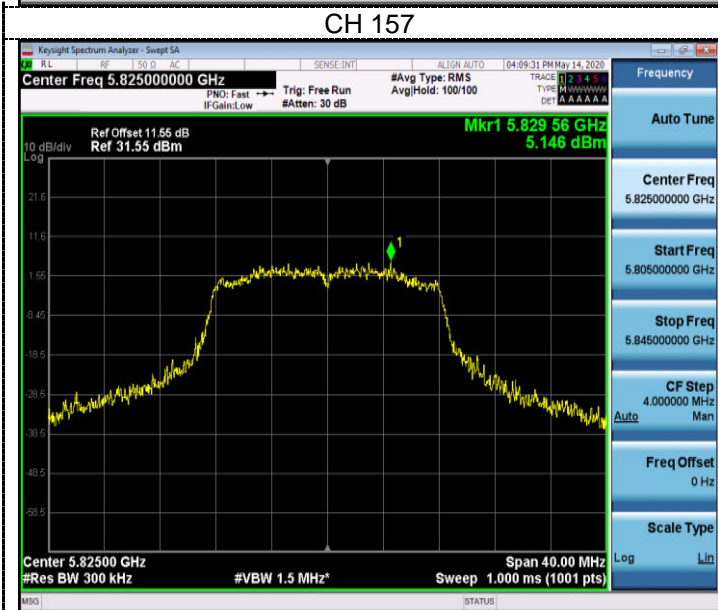
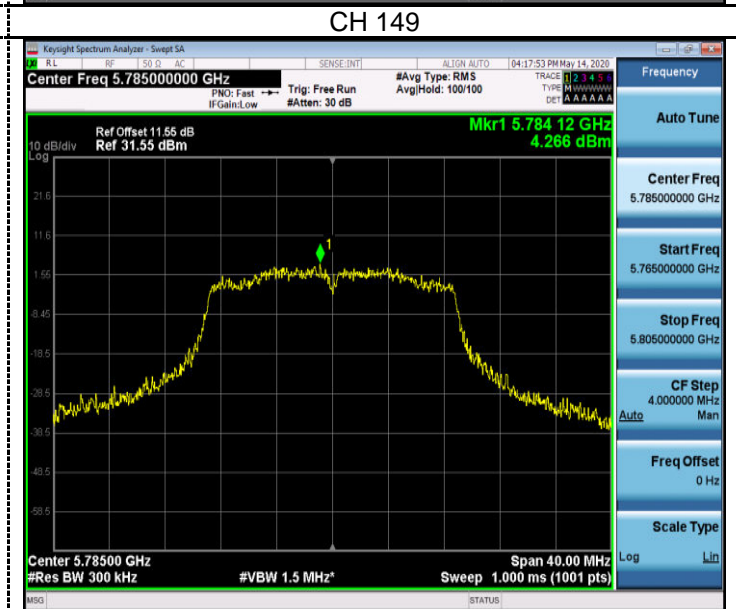
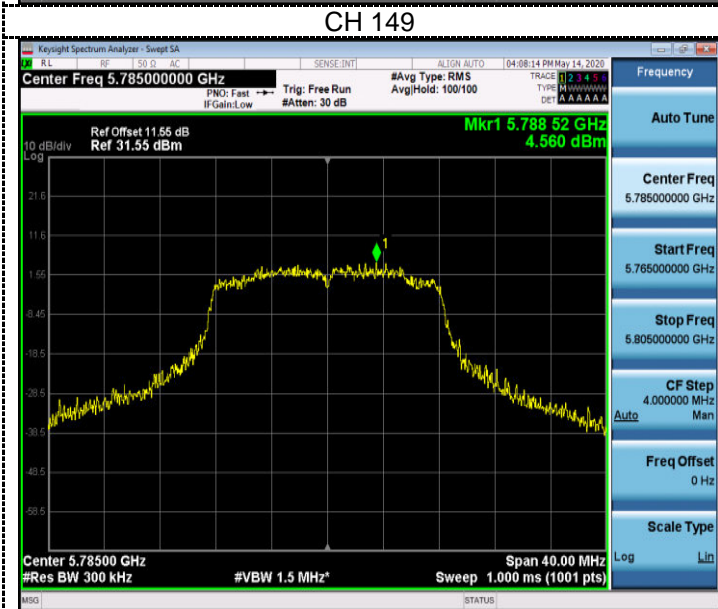
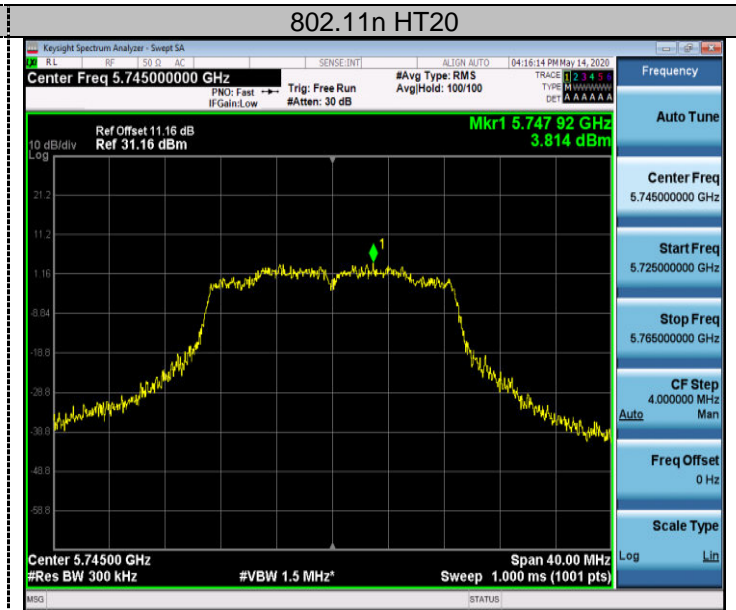
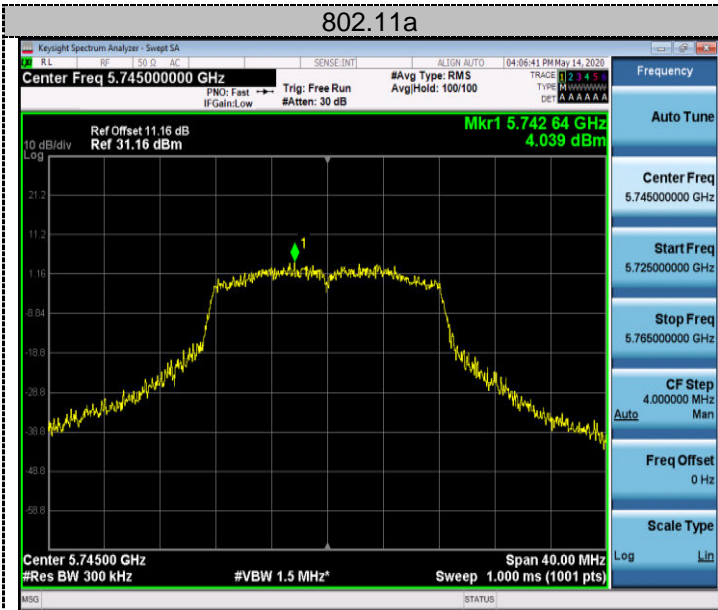


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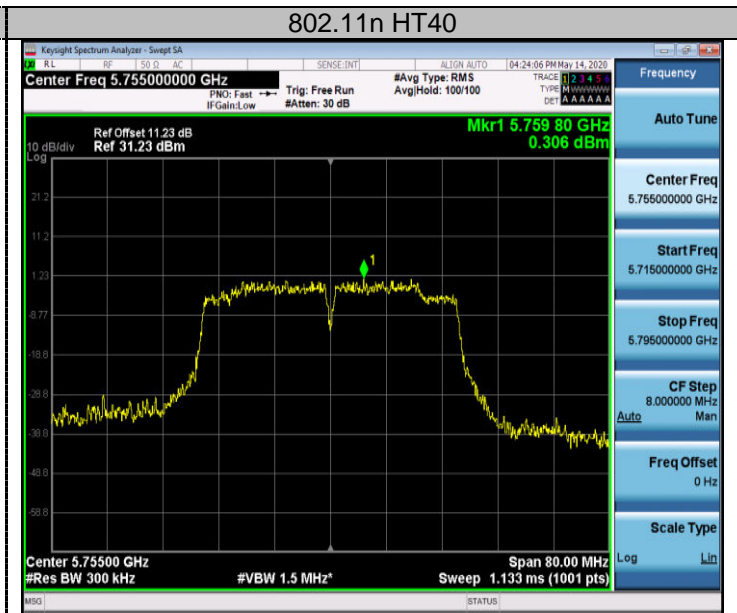
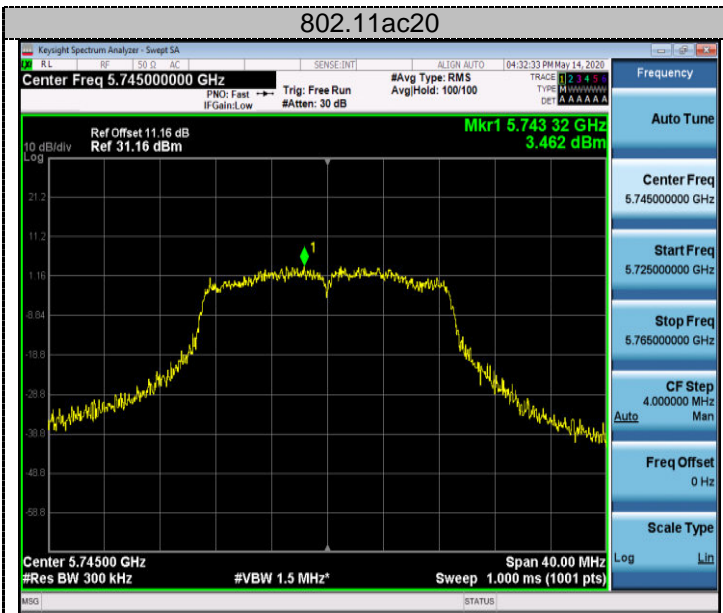
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5725-5850MHz:



CH 165

CH 165



CH 149

CH 151



CH 157

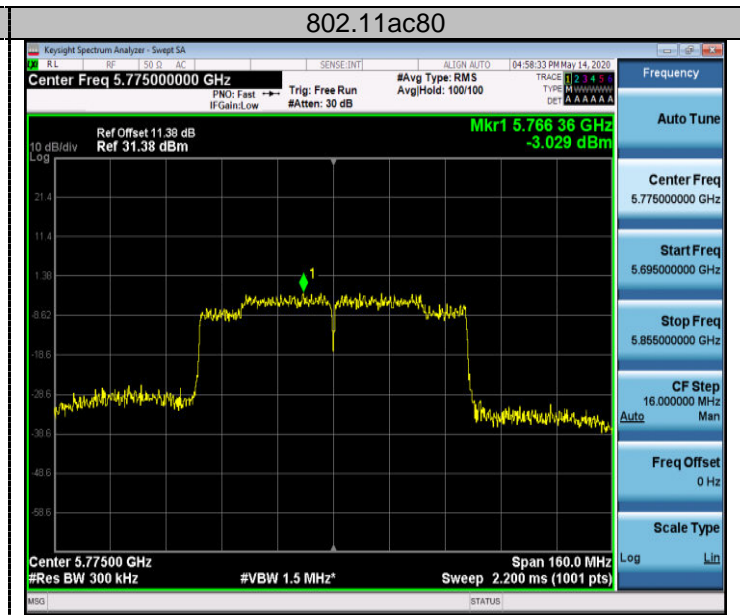
CH 159



CH 165



CH 151



CH 155

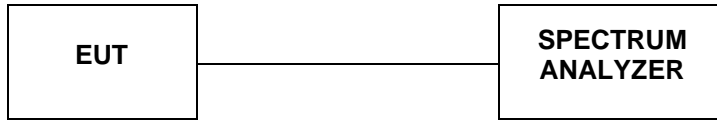


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**4.6. 6dB Bandwidth**

**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)  $\geq 3 \times$  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   | 24.2°C   | Humidity       | 54.9%             |
| Test Engineer | Moon Tan | Configurations | IEEE 802.11a/n/ac |

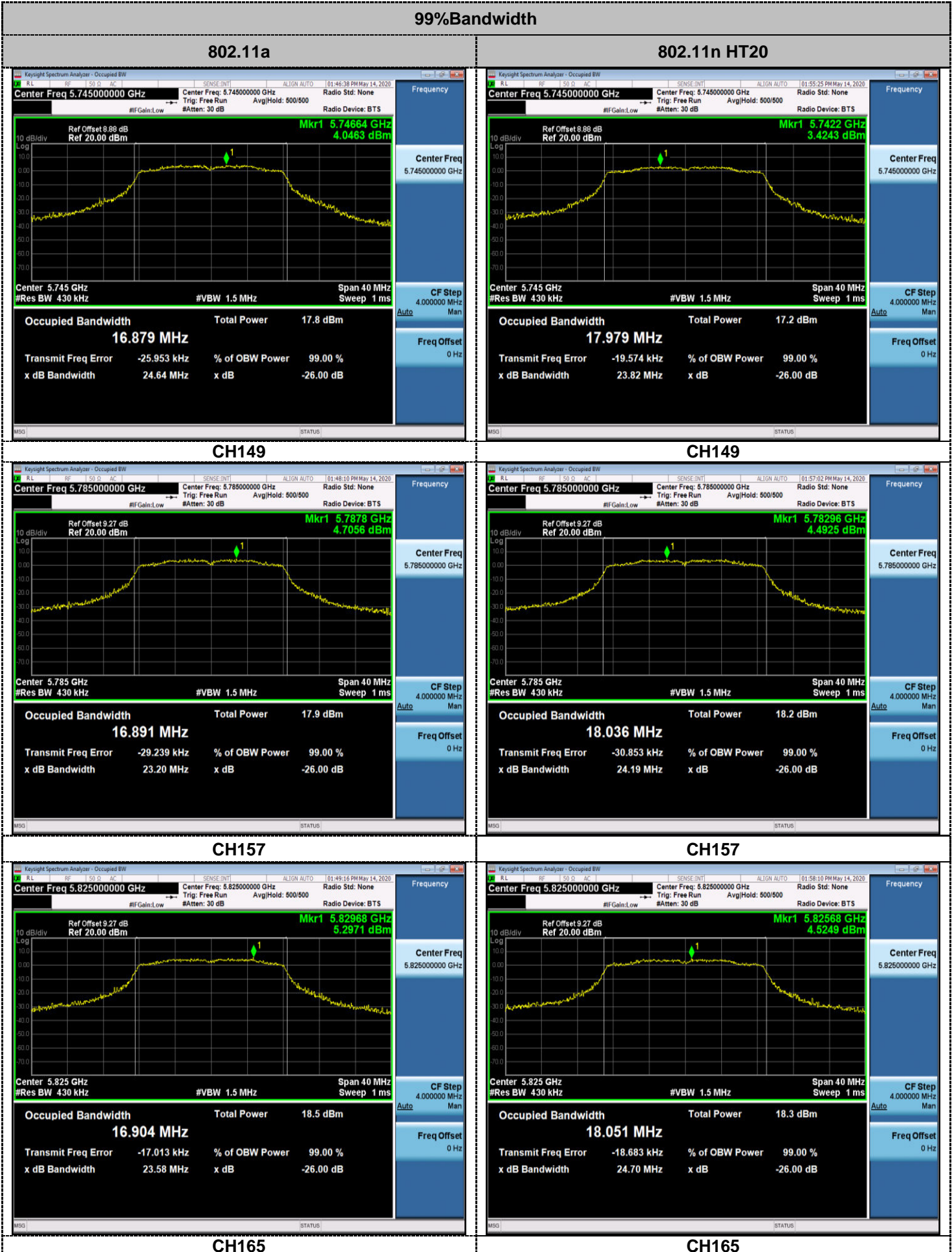
**Antenna 0:**

| Type        | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-------------|---------|--------------------|---------------------|-------------|--------|
| 802.11a     | 149     | 16.879             | 15.200              | ≥500        | Pass   |
|             | 157     | 16.891             | 15.200              |             |        |
|             | 165     | 16.904             | 15.200              |             |        |
| 802.11nHT20 | 149     | 17.979             | 15.160              | ≥500        | Pass   |
|             | 157     | 18.036             | 15.160              |             |        |
|             | 165     | 18.051             | 15.160              |             |        |
| 802.11ac20  | 149     | 18.046             | 15.200              | ≥500        | Pass   |
|             | 157     | 18.018             | 15.160              |             |        |
|             | 165     | 18.027             | 15.200              |             |        |
| 802.11n40   | 151     | 36.282             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.391             | 35.280              |             |        |
| 802.11ac40  | 151     | 36.258             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.360             | 35.280              |             |        |
| 802.11ac80  | 155     | 75.765             | 75.520              | ≥500        | Pass   |

**Antenna 1:**

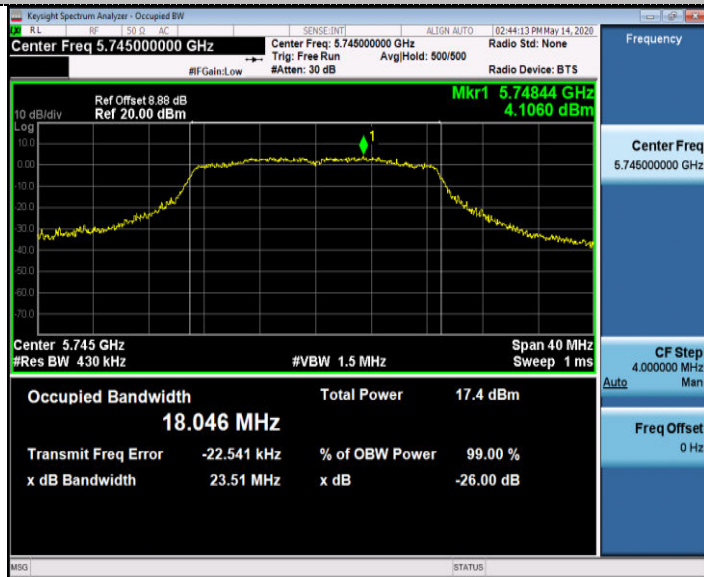
| Type        | Channel | 99%Bandwidth (MHz) | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|-------------|---------|--------------------|---------------------|-------------|--------|
| 802.11a     | 149     | 16.919             | 15.120              | ≥500        | Pass   |
|             | 157     | 16.871             | 15.120              |             |        |
|             | 165     | 16.922             | 15.560              |             |        |
| 802.11nHT20 | 149     | 18.033             | 13.960              | ≥500        | Pass   |
|             | 157     | 18.075             | 15.160              |             |        |
|             | 165     | 18.020             | 15.160              |             |        |
| 802.11ac20  | 149     | 18.022             | 15.080              | ≥500        | Pass   |
|             | 157     | 18.050             | 15.200              |             |        |
|             | 165     | 18.029             | 15.160              |             |        |
| 802.11n40   | 151     | 36.325             | 35.200              | ≥500        | Pass   |
|             | 159     | 36.382             | 35.280              |             |        |
| 802.11ac40  | 151     | 36.294             | 35.280              | ≥500        | Pass   |
|             | 159     | 36.392             | 35.280              |             |        |
| 802.11ac80  | 155     | 75.794             | 75.520              | ≥500        | Pass   |

Antenna 0:



99%Bandwidth

802.11ac20



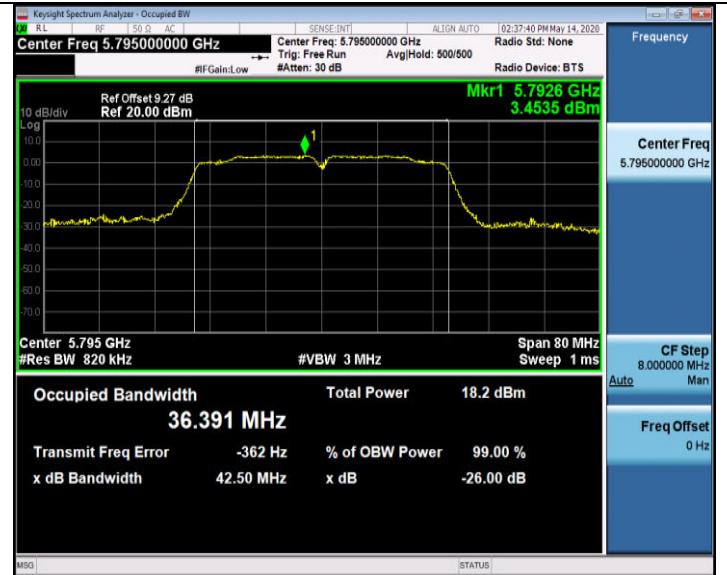
802.11n HT40



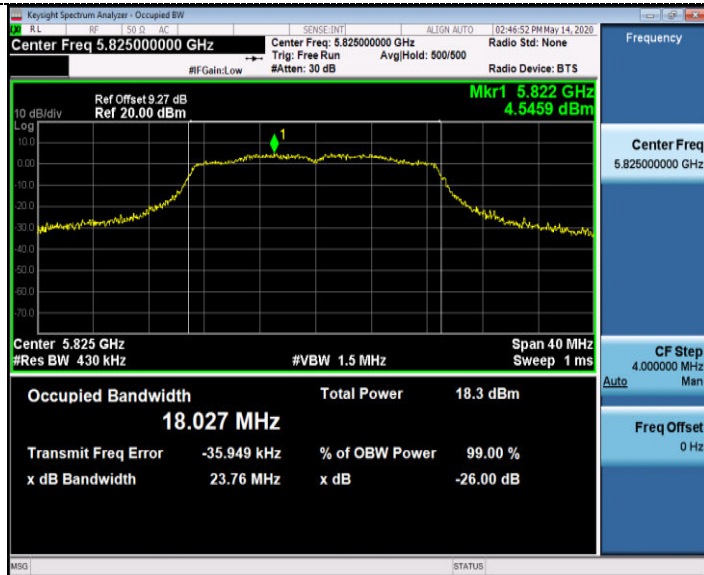
CH149



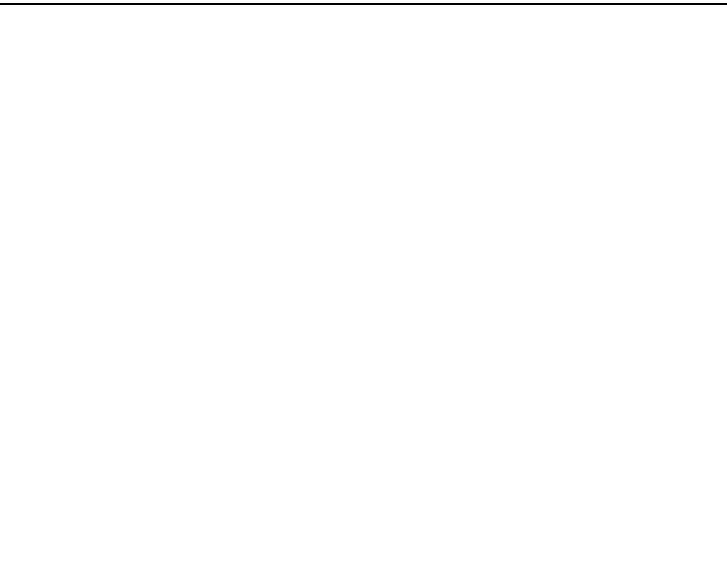
CH151



CH157



CH159

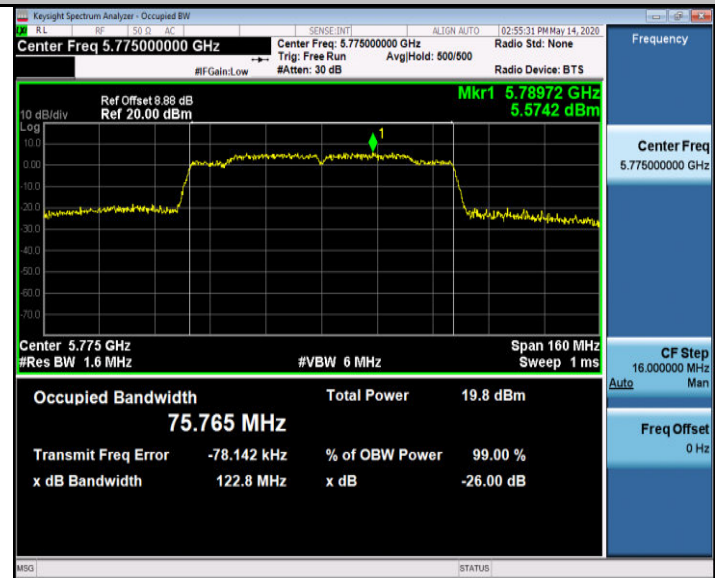
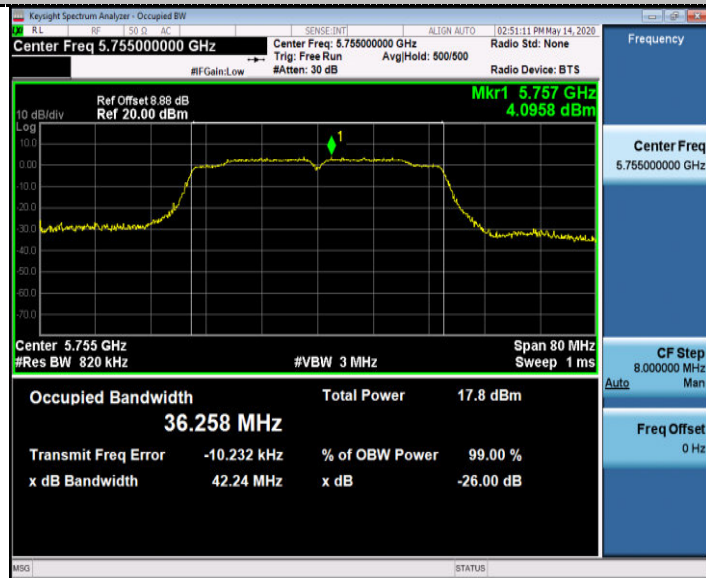


CH165

99%Bandwidth

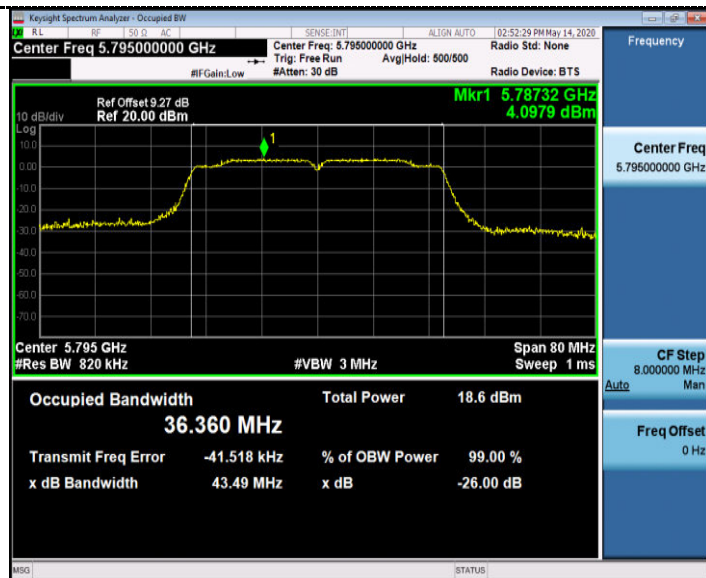
802.11ac40

802.11ac80



CH151

CH155

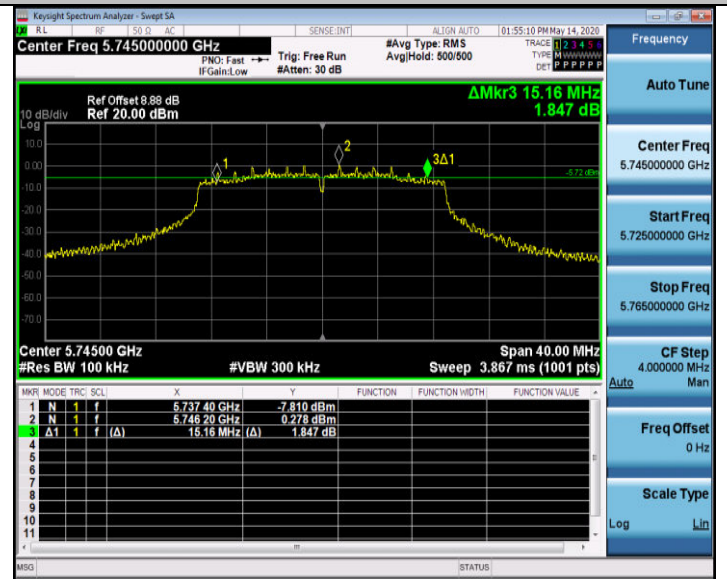


CH159

6dB Bandwidth

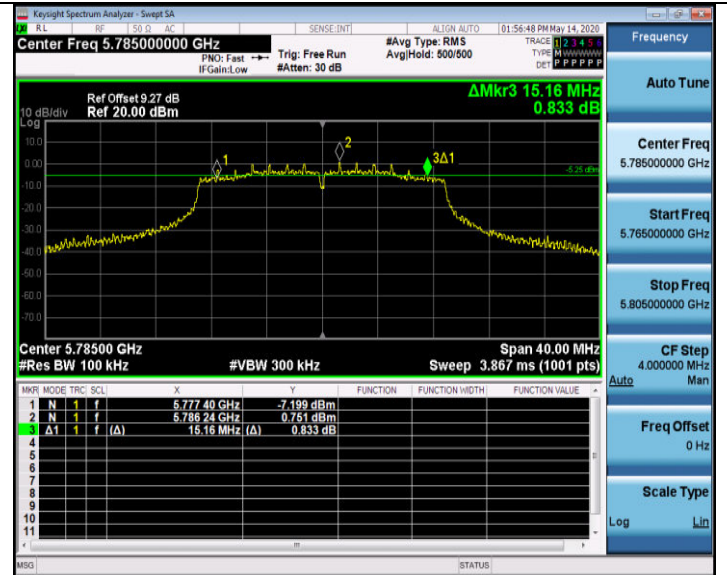
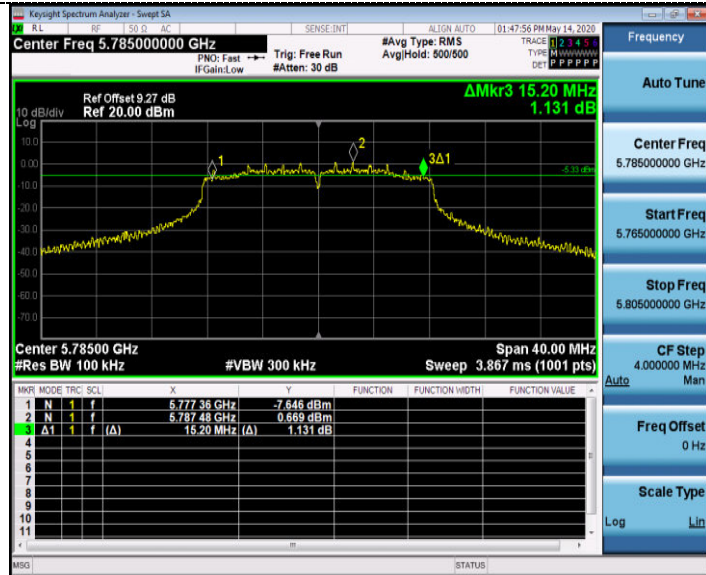
802.11a

802.11n HT20



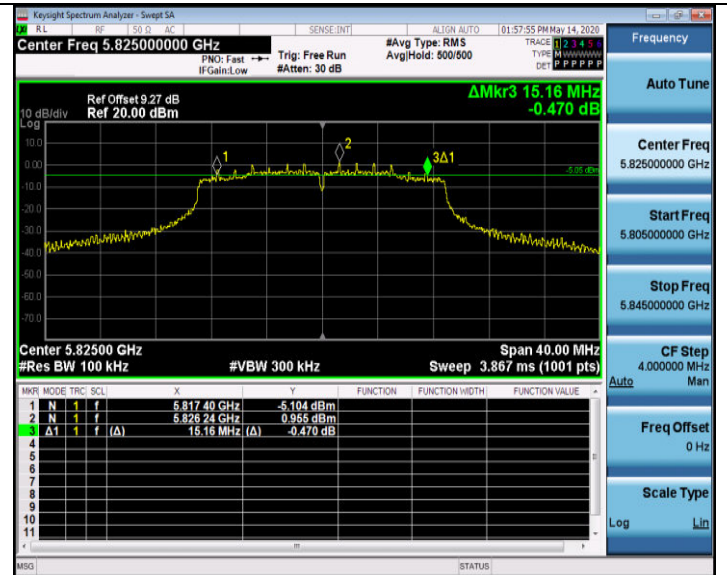
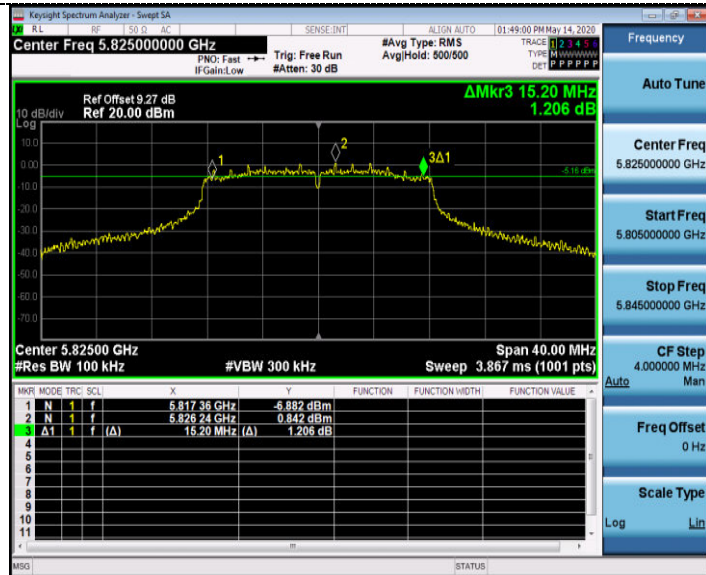
CH149

CH149



CH157

CH157



CH165

CH165