

## 12 AC power-line conducted emissions

### 12.1 Definition

Line-to-ground radio-noise voltage that is conducted from all of the EUT current-carrying power input terminals that are directly (or indirectly via separate transformers or power supplies) connected to a public power network.

### 12.2 Test Parameters

|                           |                              |
|---------------------------|------------------------------|
| Test Location:            | Element Hull                 |
| Test Chamber:             | Screen Room 2                |
| Test Standard and Clause: | ANSI C63.10-2013, Clause 6.2 |
| EUT Channels:             | 5745 MHz                     |
| Deviations From Standard: | None                         |
| Measurement Detectors:    | Quasi-Peak and Average       |

### Environmental Conditions (Normal Environment)

|                    |                                  |
|--------------------|----------------------------------|
| Temperature: 21 °C | +15 °C to +35 °C (as declared)   |
| Humidity: 40 % RH  | 20 % RH to 75 % RH (as declared) |

### 12.3 Test Limit

A radio apparatus that is designed to be connected to the public utility (AC) power line shall ensure that the radio frequency voltage, which is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz, shall not exceed the limits in Table 3.

**Table 3 – AC Power Line Conducted Emission Limits**

| <i>Frequency<br/>(MHz)</i> | <i>Conducted limit<br/>(dBμV)</i> |                  |
|----------------------------|-----------------------------------|------------------|
|                            | <i>Quasi-Peak</i>                 | <i>Average**</i> |
| 0.15 to 0.5                | 66 to 56*                         | 56 to 46*        |
| 0.5 to 5                   | 56                                | 46               |
| 5 to 30                    | 60                                | 50               |

\*The level decreases linearly with the logarithm of the frequency.

\*\*A linear average detector is required.

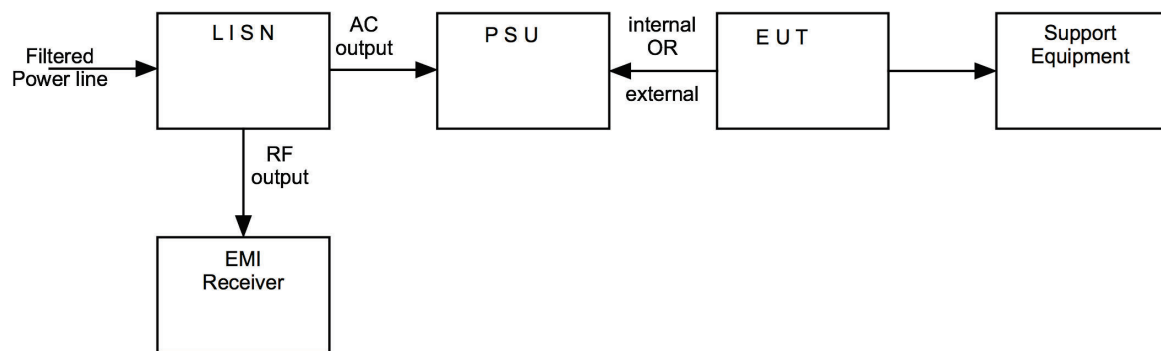
## 12.4 Test Method

With the EUT setup in a screened room, as per section 9 of this report and connected as per Figure ii, the power line emissions were measured on a spectrum analyzer / EMI receiver.

AC power line conducted emissions from the EUT are checked first by preview scans with peak and average detectors covering both live and neutral lines. A spectrum analyzer is used to determine if any periodic emissions are present.

Formal measurements using the correct detector(s) and bandwidth are made on frequencies identified from the preview scans. Final measurements were performed with EUT set at its maximum duty in transmit and receive modes.

**Figure ii Test Setup**



## 12.5 Test Set-up Photograph



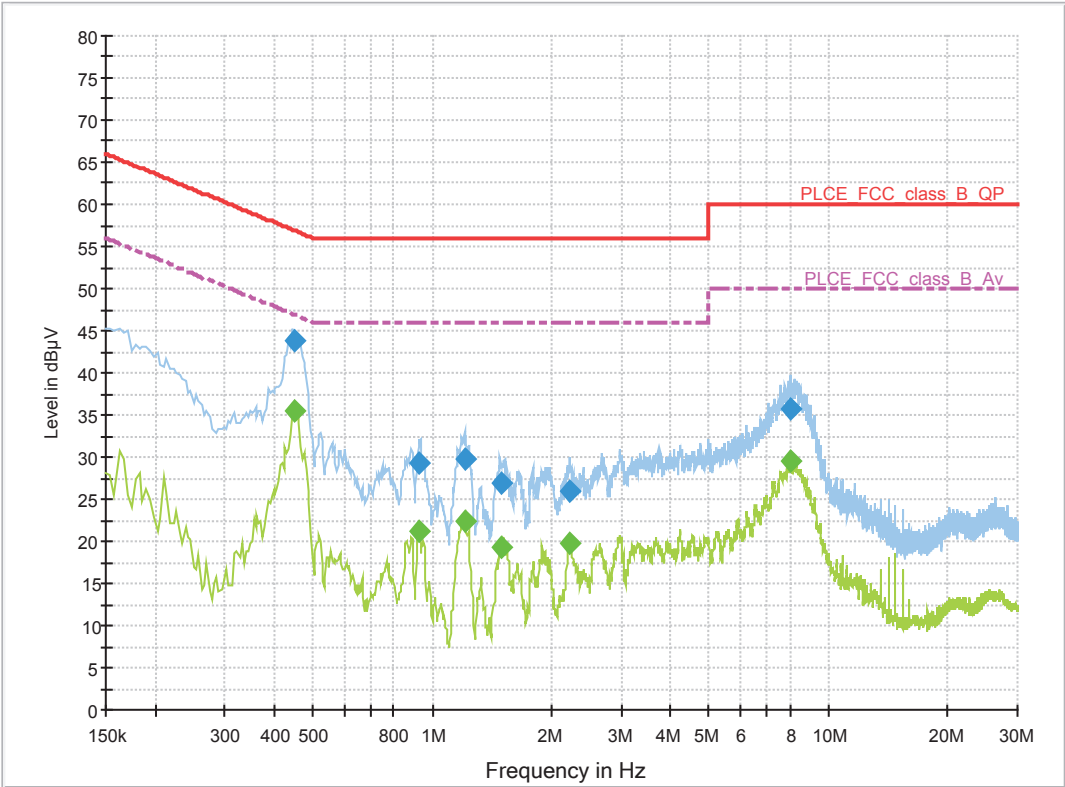
## 12.6 Test Equipment

| Equipment Type     | Manufacturer | Equipment Description | Element No | Due For Calibration |
|--------------------|--------------|-----------------------|------------|---------------------|
| Measuring Receiver | R&S          | ESHS10                | RFG125     | 2021-01-22          |
| LISN               | R&S          | ESH3-Z5               | RFG732     | 2021-05-18          |
| Pulse Limiter      | R&S          | ESH3-Z2               | RFG680     | 2021-06-09          |

## 12.7 Test Results

| <i>AC power-line conducted emissions, Transmit mode</i> |                        |                  |                      |                                   |                    |                       |
|---------------------------------------------------------|------------------------|------------------|----------------------|-----------------------------------|--------------------|-----------------------|
| <i>Results measured using the average detector</i>      |                        |                  |                      |                                   |                    |                       |
| <i>Reference Number</i>                                 | <i>Frequency (MHz)</i> | <i>Conductor</i> | <i>Result (dBUV)</i> | <i>Specification Limit (dBUV)</i> | <i>Margin (dB)</i> | <i>Result Summary</i> |
| 1                                                       | 0.449                  | L1               | 35.5                 | 46.9                              | 11.4               | PASS                  |
| 2                                                       | 0.929                  | L1               | 21.2                 | 46.0                              | 24.8               | PASS                  |
| 3                                                       | 1.209                  | L1               | 22.5                 | 46.0                              | 23.6               | PASS                  |
| 4                                                       | 1.501                  | L1               | 19.3                 | 46.0                              | 26.7               | PASS                  |
| 5                                                       | 2.229                  | L1               | 19.8                 | 46.0                              | 26.2               | PASS                  |
| 6                                                       | 8.005                  | L1               | 29.6                 | 50.0                              | 20.4               | PASS                  |

| <i>Results measured using the quasi-peak detector</i> |                        |                  |                      |                                   |                    |                       |
|-------------------------------------------------------|------------------------|------------------|----------------------|-----------------------------------|--------------------|-----------------------|
| <i>Reference Number</i>                               | <i>Frequency (MHz)</i> | <i>Conductor</i> | <i>Result (dBUV)</i> | <i>Specification Limit (dBUV)</i> | <i>Margin (dB)</i> | <i>Result Summary</i> |
| 1                                                     | 0.449                  | L1               | 43.8                 | 56.9                              | 13.1               | PASS                  |
| 2                                                     | 0.929                  | L1               | 29.3                 | 56.0                              | 26.7               | PASS                  |
| 3                                                     | 1.209                  | L1               | 29.7                 | 56.0                              | 26.3               | PASS                  |
| 4                                                     | 1.501                  | L1               | 26.9                 | 56.0                              | 29.1               | PASS                  |
| 5                                                     | 2.229                  | L1               | 26.1                 | 56.0                              | 29.9               | PASS                  |
| 6                                                     | 8.005                  | L1               | 35.7                 | 60.0                              | 24.3               | PASS                  |



## 13 Occupied Bandwidth

### 13.1 Definition

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal.

### 13.2 Test Parameters

|                             |                              |
|-----------------------------|------------------------------|
| Test Location:              | Element Hull                 |
| Test Chamber:               | Wireless Laboratory 1        |
| Test Standard and Clause:   | ANSI C63.10-2013, Clause 6.9 |
| EUT Channel Bandwidths:     | 20 MHz, 40 MHz & 80 MHz      |
| EUT Test Modulations:       | 802.11a/n/ac                 |
| Deviations From Standard:   | None                         |
| Measurement BW:             | 390 kHz / 510 kHz / 1 MHz    |
| Spectrum Analyzer Video BW: | 4 MHz / 5 MHz / 8 MHz        |
| Measurement Span:           | 40 MHz / 80 MHz / 160 MHz    |
| Measurement Detector:       | Peak                         |

### Environmental Conditions (Normal Environment)

|                    |                                |
|--------------------|--------------------------------|
| Temperature: 21 °C | +15 °C to +35 °C (as declared) |
| Humidity: 42 %RH   | 20%RH to 75%RH (as declared)   |

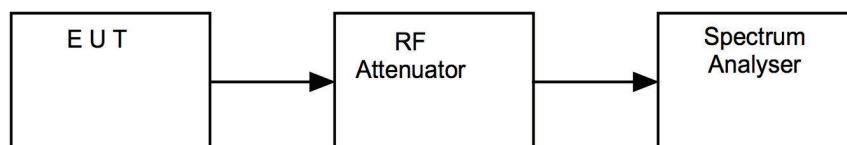
### Test Limits

Within the 5.725–5.85 GHz band, the minimum 6 dB bandwidth of U–NII devices shall be at least 500 kHz.

### 13.3 Test Method

With the EUT connected as per Figure iii, the bandwidth of the EUT was measured on a spectrum analyser. The measurements were performed with EUT set at its maximum duty. All modulation schemes, data rates and power settings were used to observe the worst-case configuration in each bandwidth.

Figure iii Test Setup

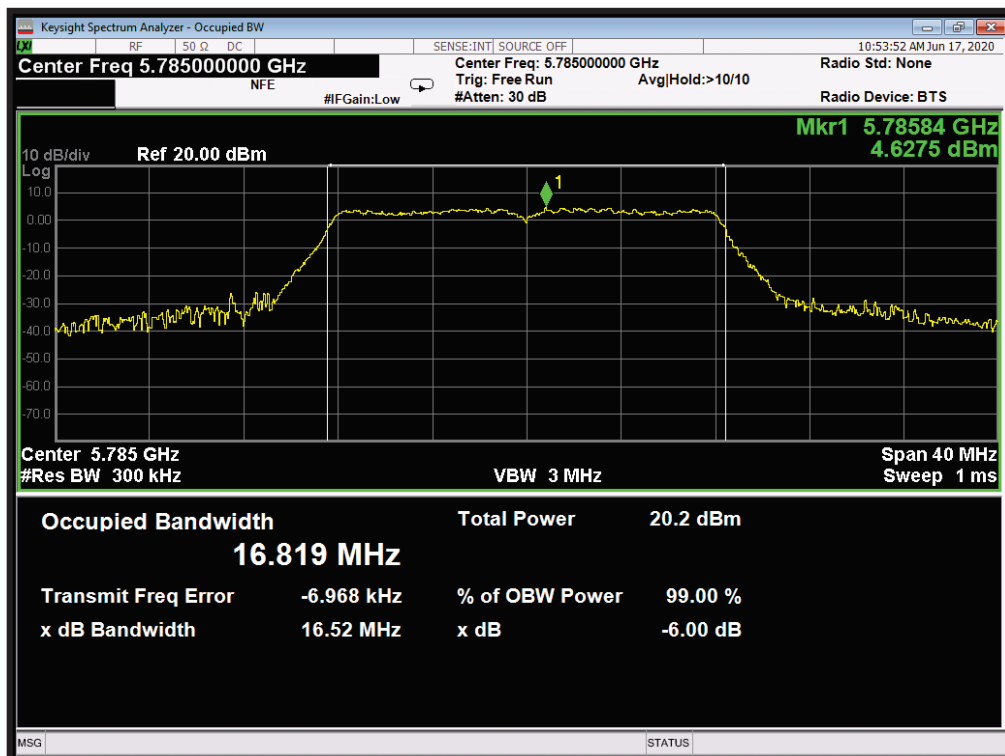
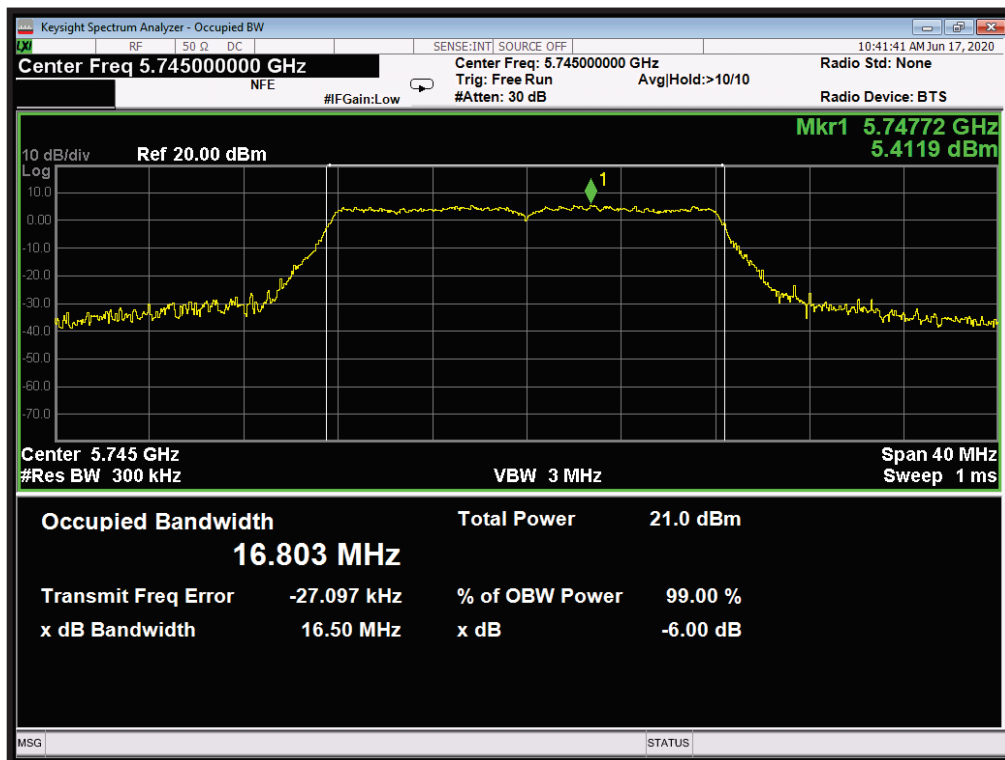


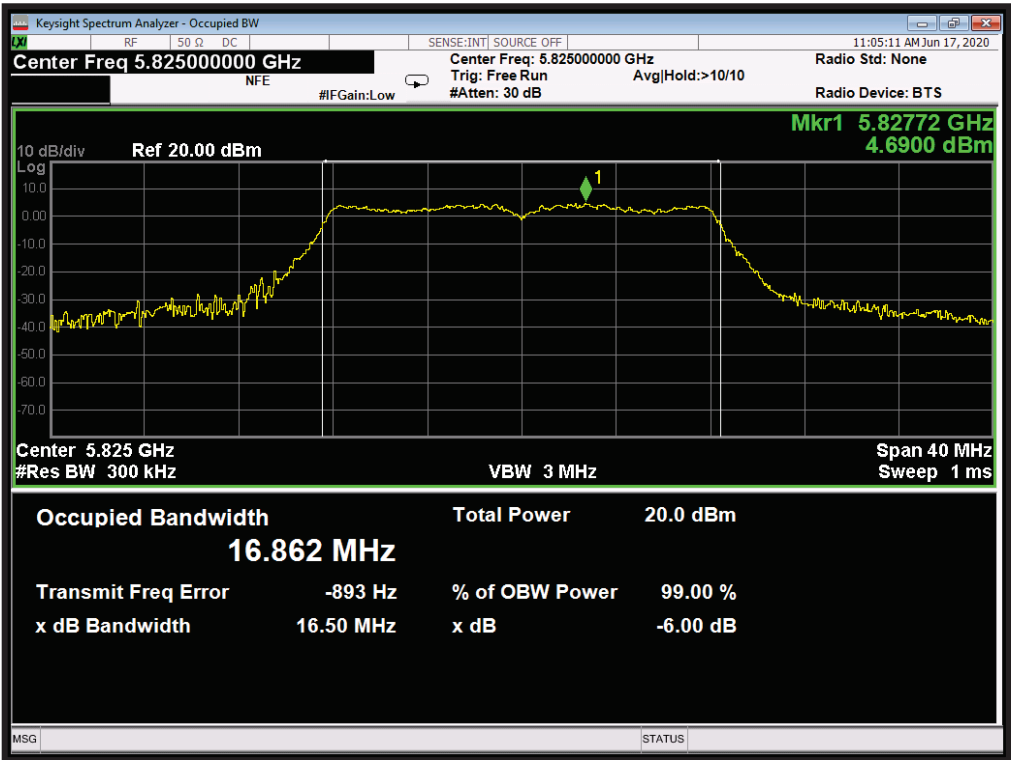
### 13.4 Test Equipment

| <i>Equipment Description</i> | <i>Manufacturer</i> | <i>Equipment Type</i> | <i>Element No</i> | <i>Due For Calibration</i> |
|------------------------------|---------------------|-----------------------|-------------------|----------------------------|
| Spectrum Analyser            | Agilent             | N9030A                | REF2167           | 2021-08-19                 |
| Power Supply                 | Farnell             | LT30-2                | RFG035            | Cal with REF887            |
| Multimeter                   | Agilent             | 34405A                | REF887            | 2021-10-12                 |

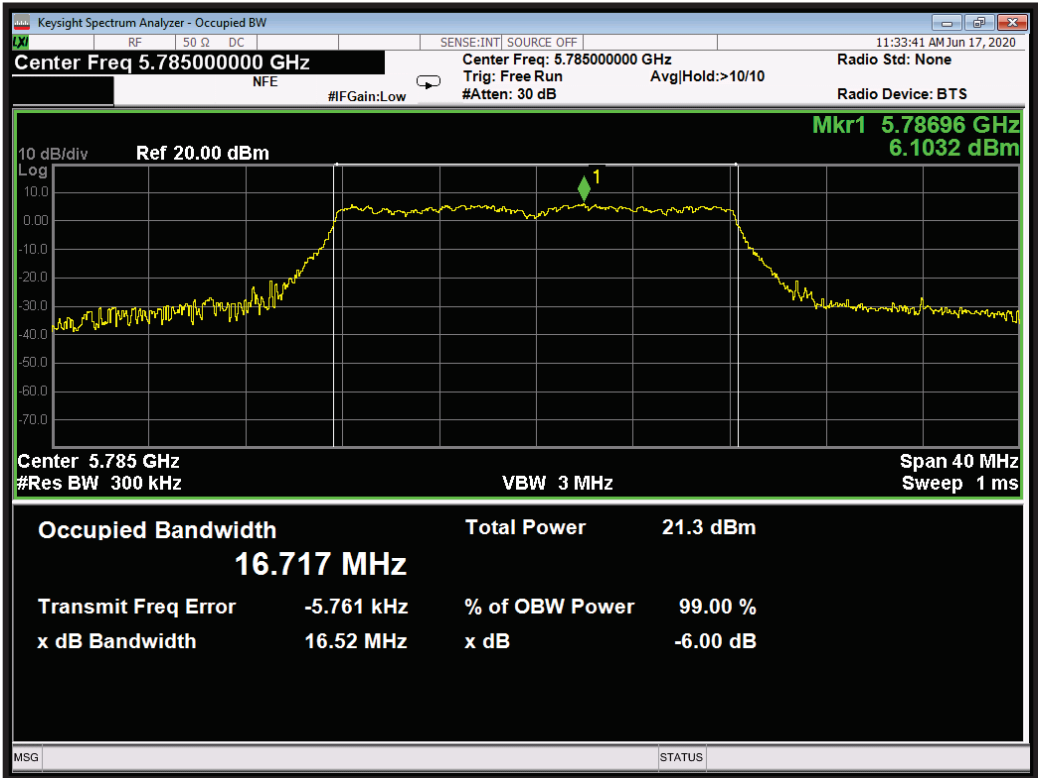
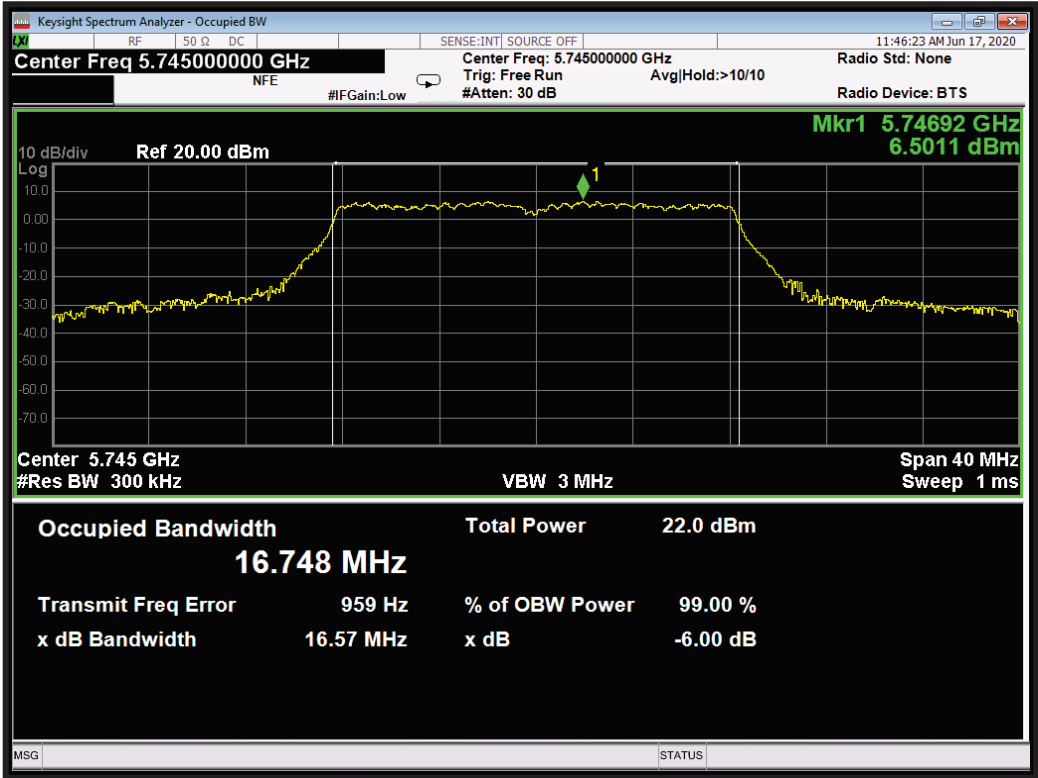
### 13.5 Test Results

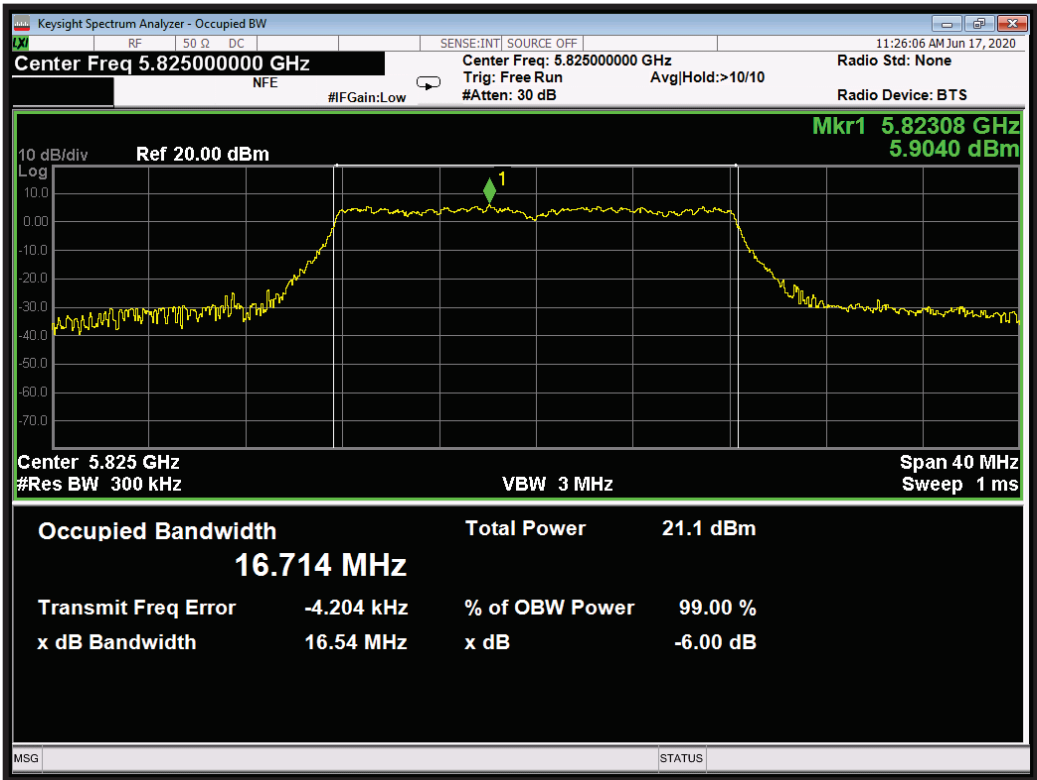
| Modulation: 802.11a; Data rate: 6 Mbit/s; Main Antenna; |                     |                     |        |
|---------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                 | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                    | 16.50               | 16.803              | PASS   |
| 5785                                                    | 16.52               | 16.819              | PASS   |
| 5825                                                    | 16.50               | 16.862              | PASS   |



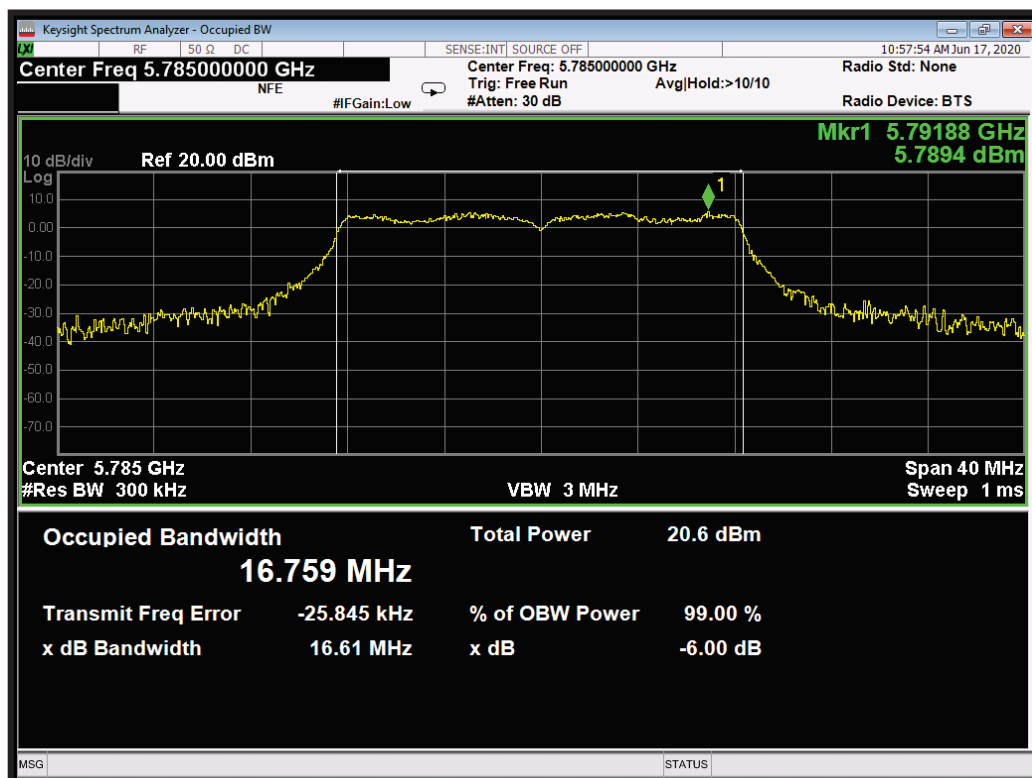
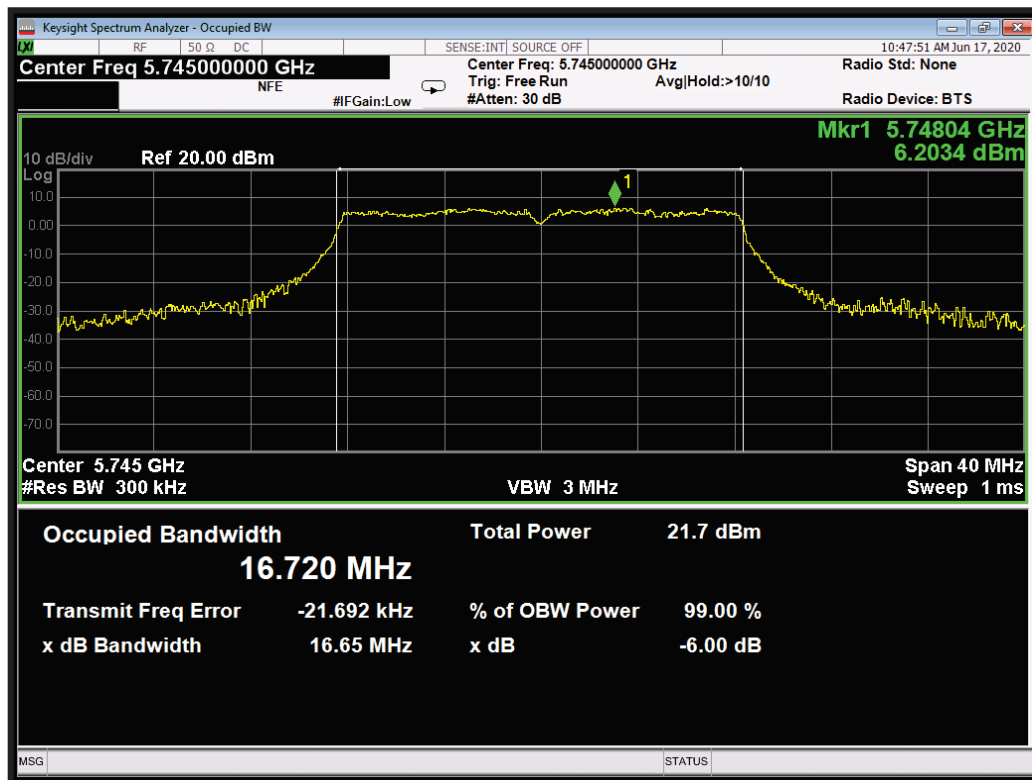


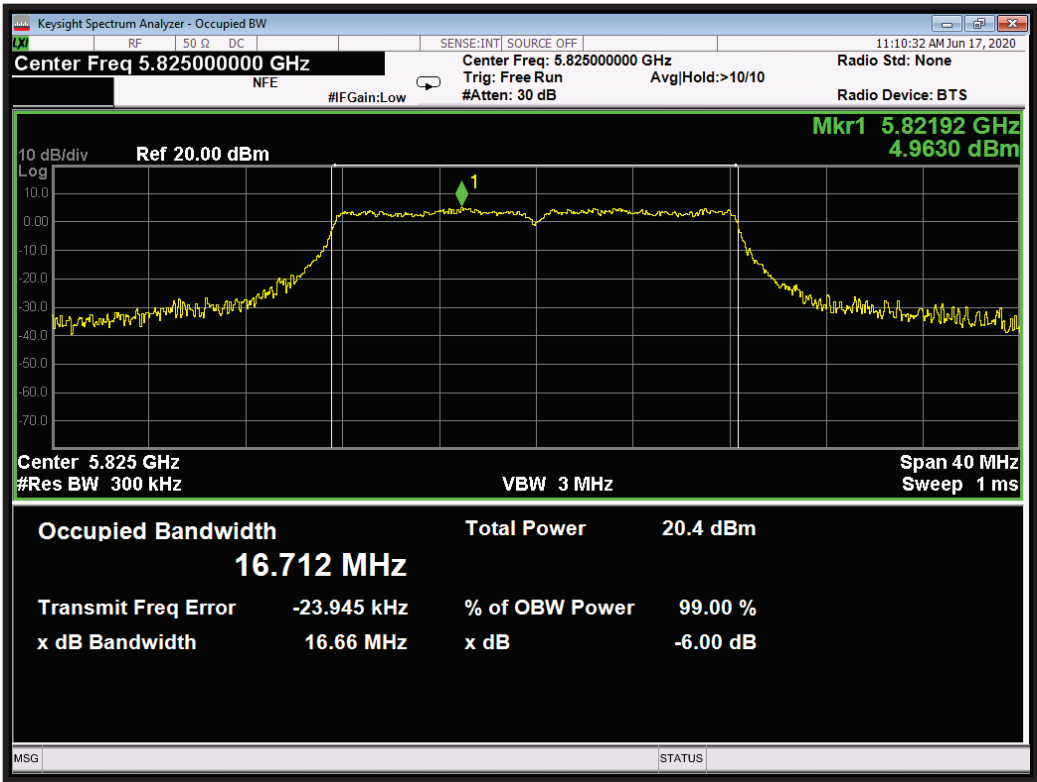
| Modulation: 802.11a; Data rate: 6 Mbit/s; Aux Antenna; |                     |                     |        |
|--------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                   | 16.57               | 16.748              | PASS   |
| 5785                                                   | 16.52               | 16.717              | PASS   |
| 5825                                                   | 16.54               | 16.714              | PASS   |



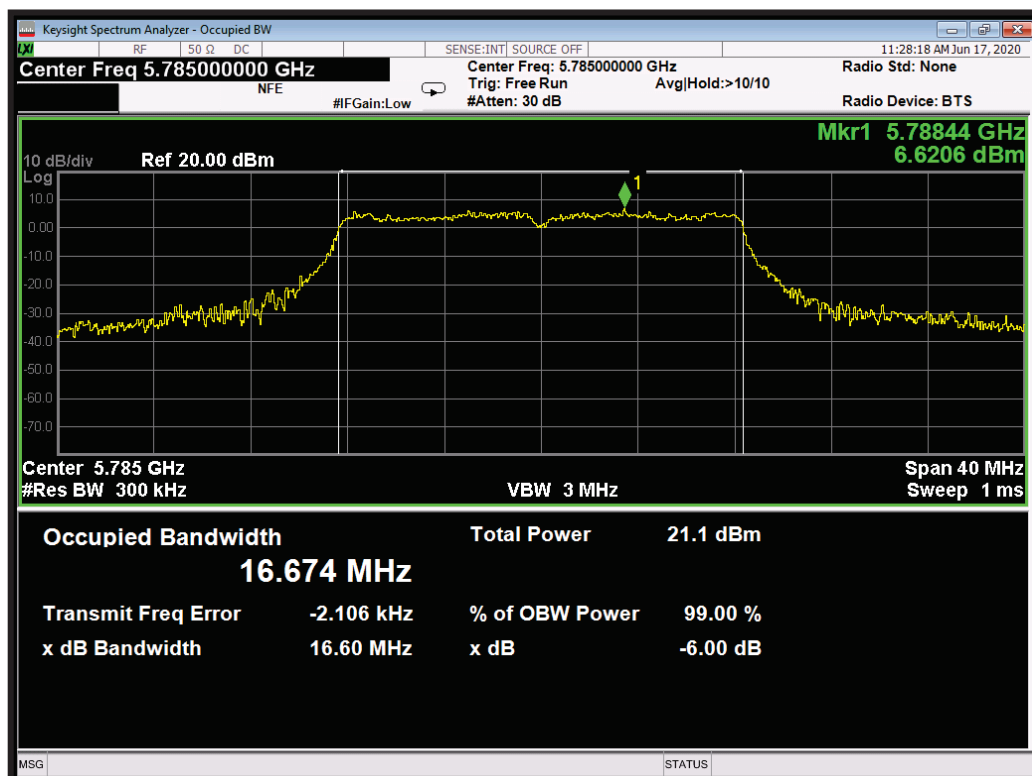
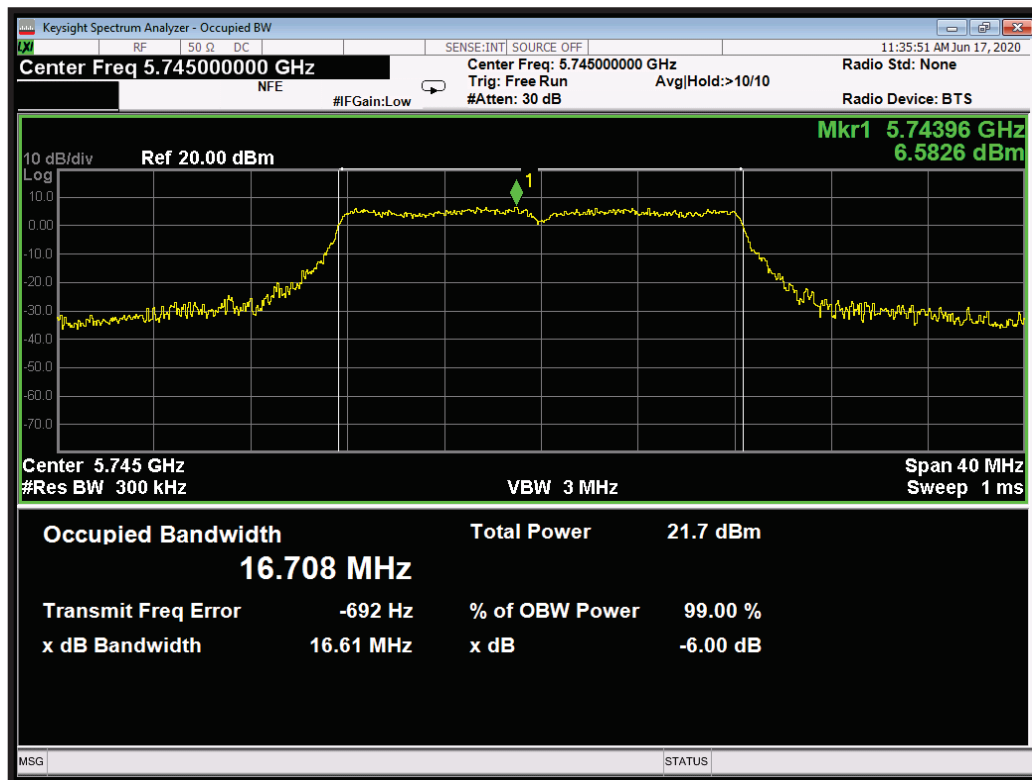


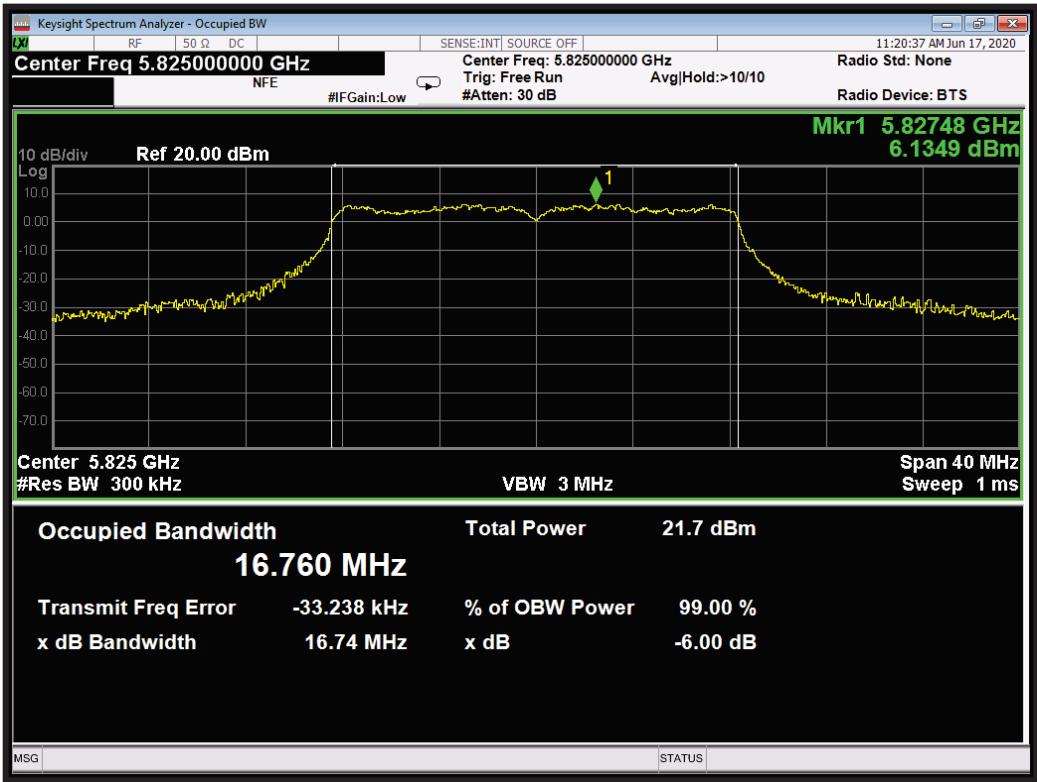
| Modulation: 802.11a; Data rate: 54 Mbit/s; Main Antenna; |                     |                     |        |
|----------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                  | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                     | 16.65               | 16.720              | PASS   |
| 5785                                                     | 16.61               | 16.759              | PASS   |
| 5825                                                     | 16.66               | 16.712              | PASS   |





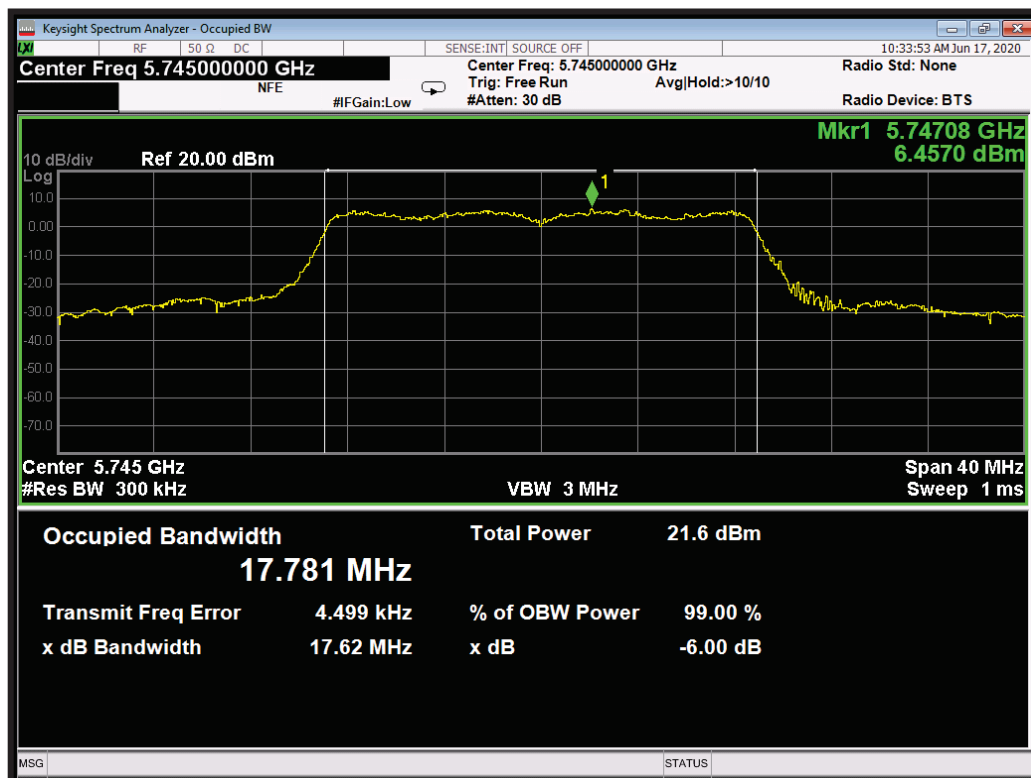
| Modulation: 802.11a; Data rate: 54 Mbit/s; Aux Antenna; |                     |                     |        |
|---------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                 | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                    | 16.61               | 16.708              | PASS   |
| 5785                                                    | 16.60               | 16.674              | PASS   |
| 5825                                                    | 16.74               | 16.760              | PASS   |

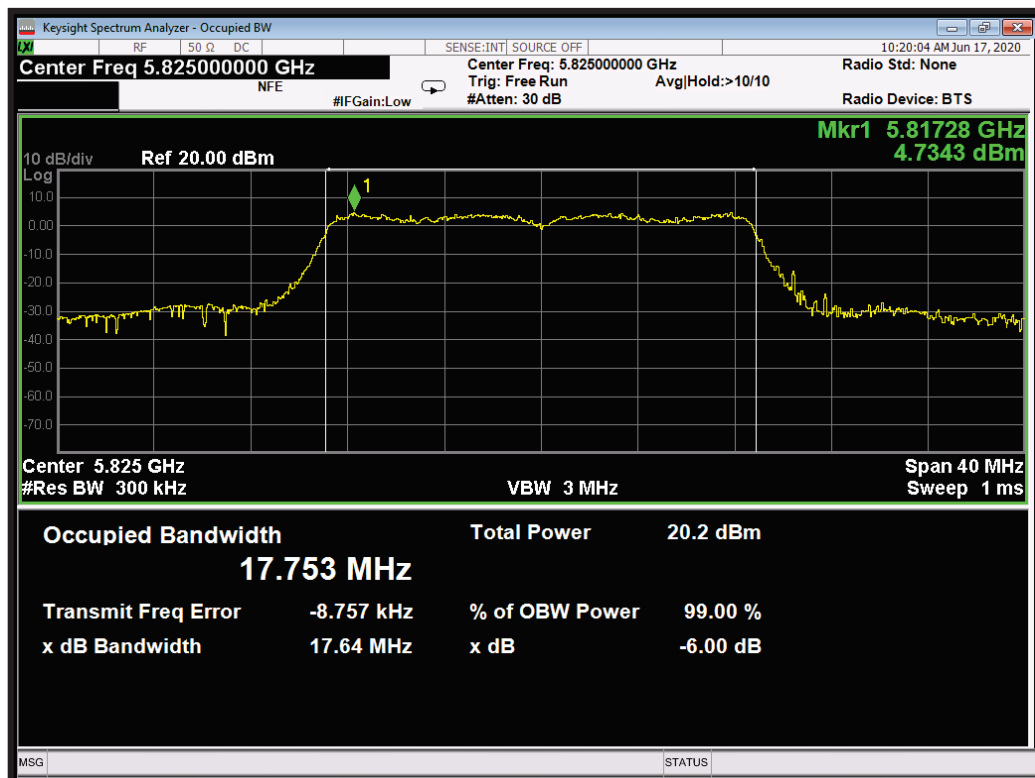
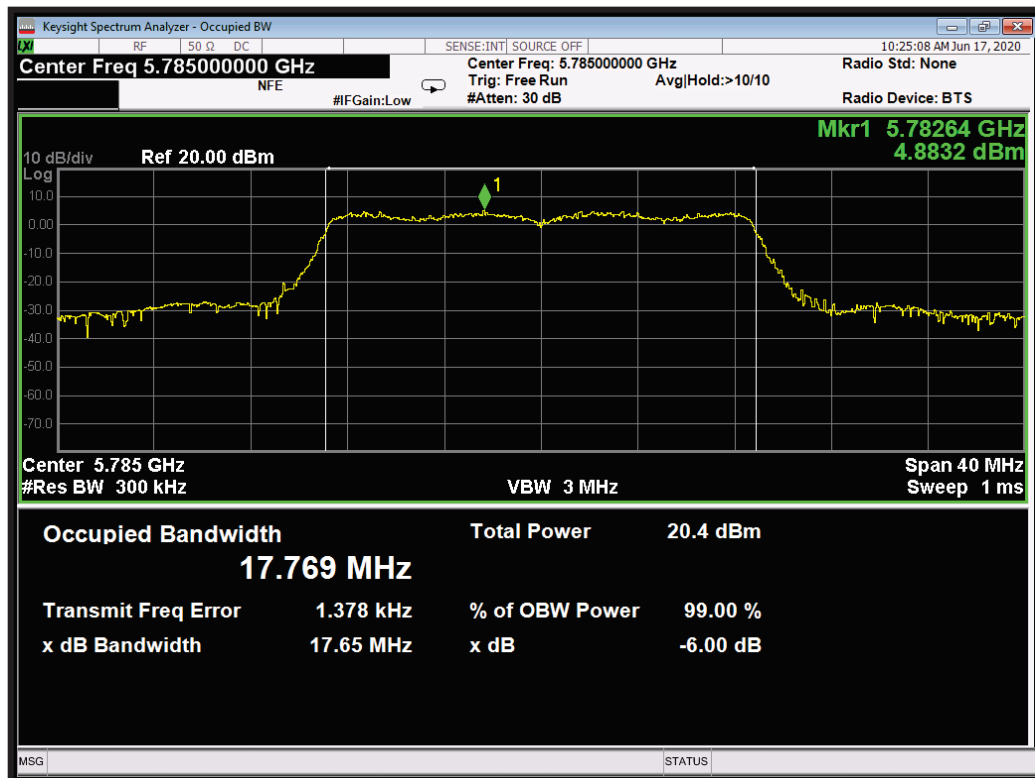




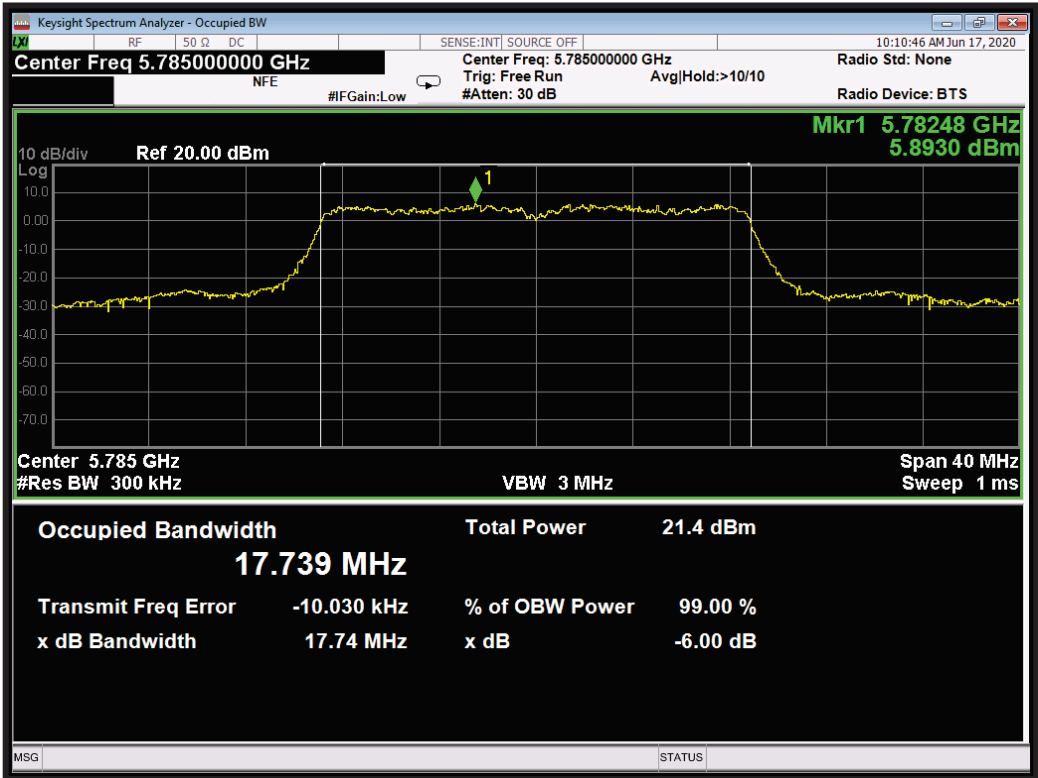
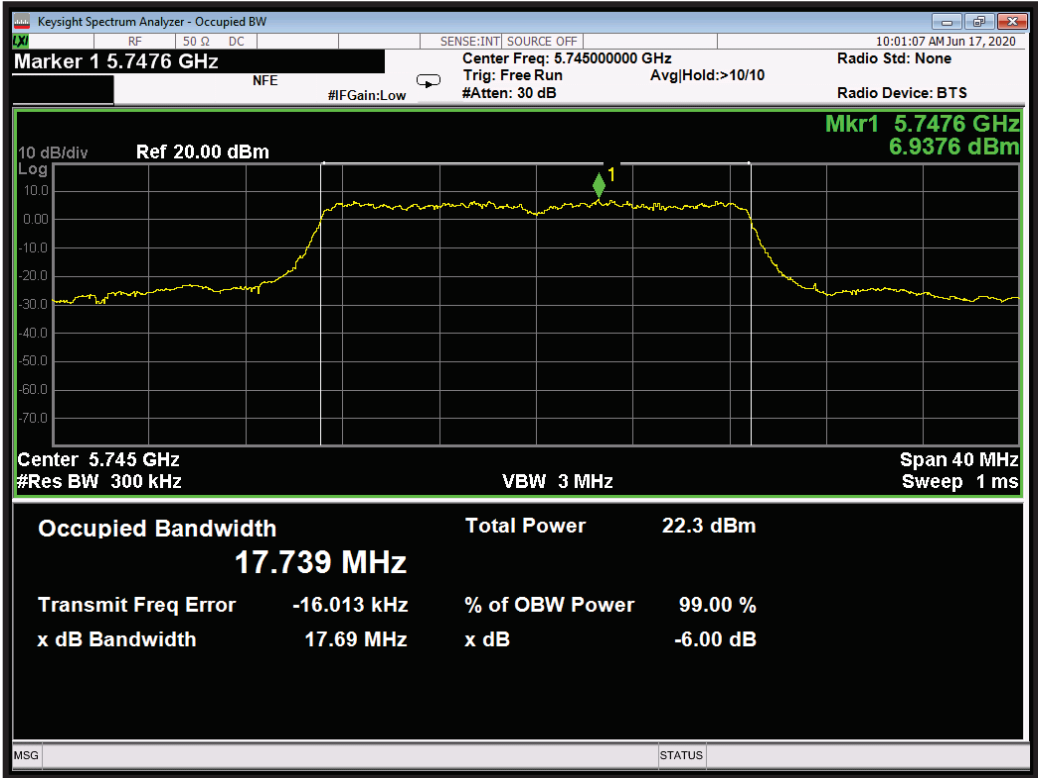
Limited 802.11n mode results are presented. The power setting for MCS0 is higher than for the corresponding 802.11ac modes which are otherwise equivalent. At higher data rates the power setting was the same for both 802.11n and 802.11ac modes so the measurements for the legacy (802.11n) modes have not been repeated.

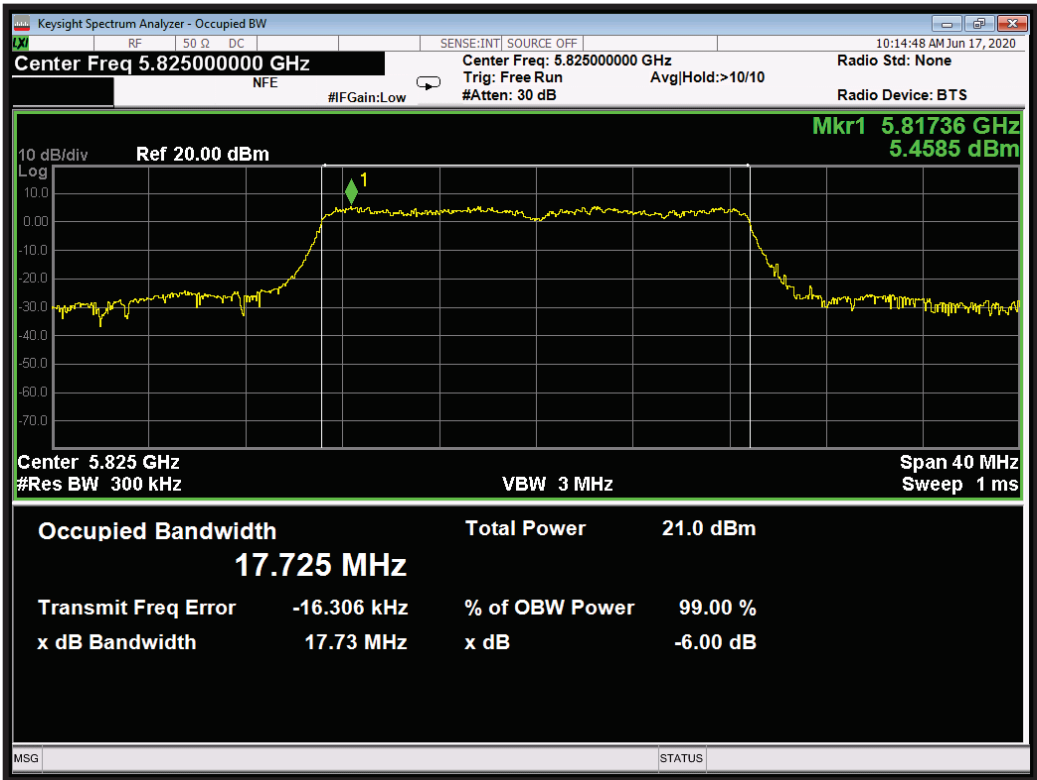
| <b>Modulation: 802.11n-20; Data rate: MCS0; Main Antenna;</b> |                            |                            |               |
|---------------------------------------------------------------|----------------------------|----------------------------|---------------|
| <b>Channel Frequency (MHz)</b>                                | <b>6dB bandwidth (MHz)</b> | <b>99% bandwidth (MHz)</b> | <b>Result</b> |
| 5745                                                          | 17.62                      | 17.781                     | PASS          |
| 5785                                                          | 17.65                      | 17.769                     | PASS          |
| 5825                                                          | 17.64                      | 17.753                     | PASS          |



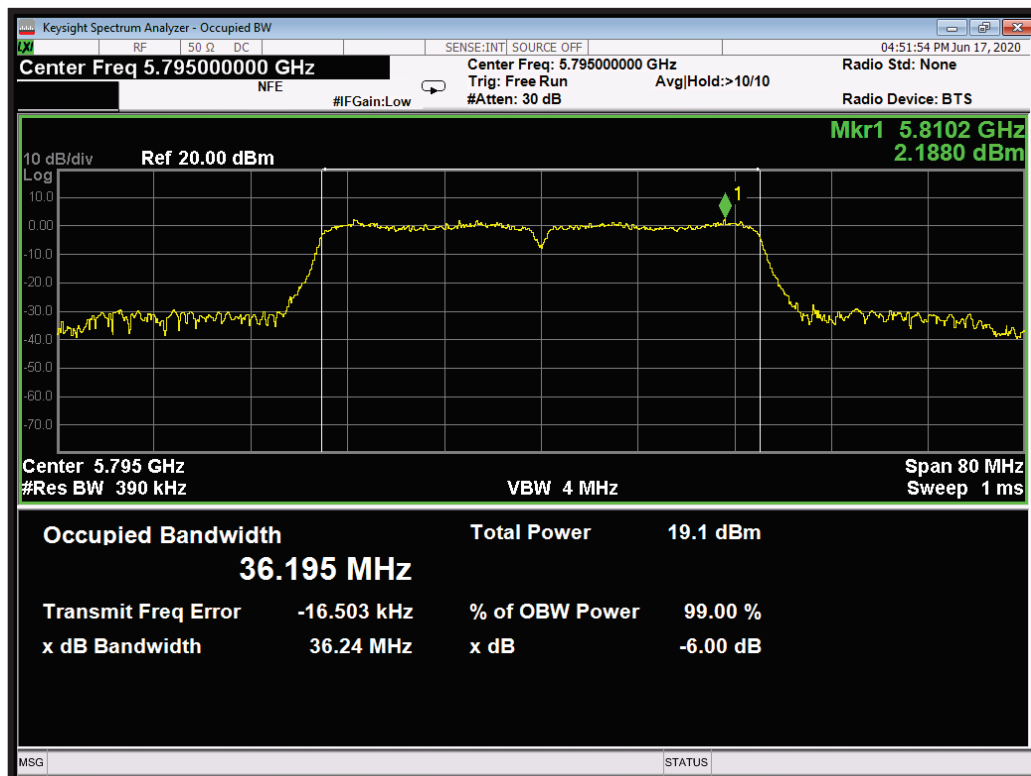
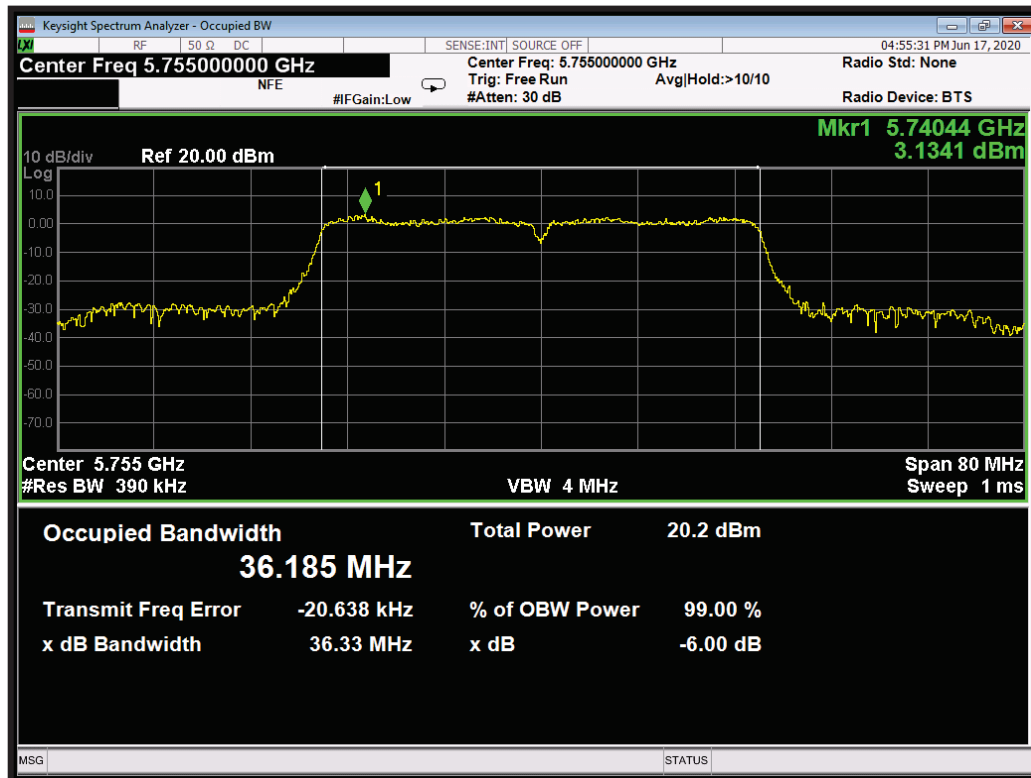


| Modulation: 802.11n-20; Data rate: MCS0; Aux Antenna; |                     |                     |        |
|-------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                               | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                  | 17.69               | 17.739              | PASS   |
| 5785                                                  | 17.74               | 17.739              | PASS   |
| 5825                                                  | 17.73               | 17.725              | PASS   |

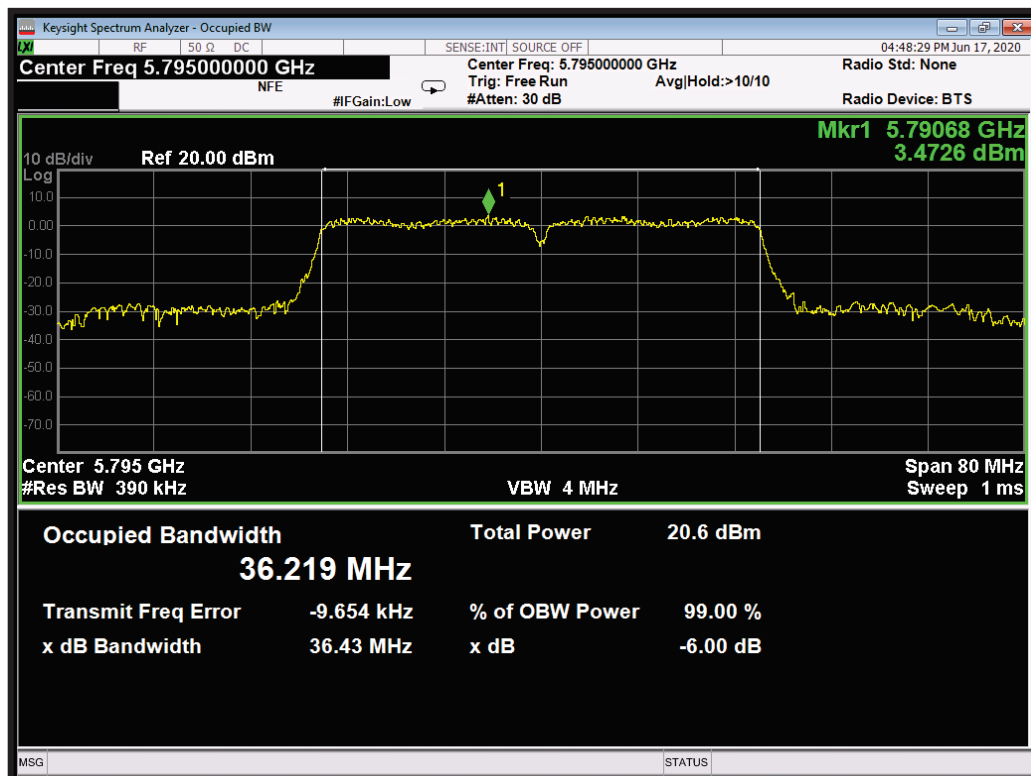
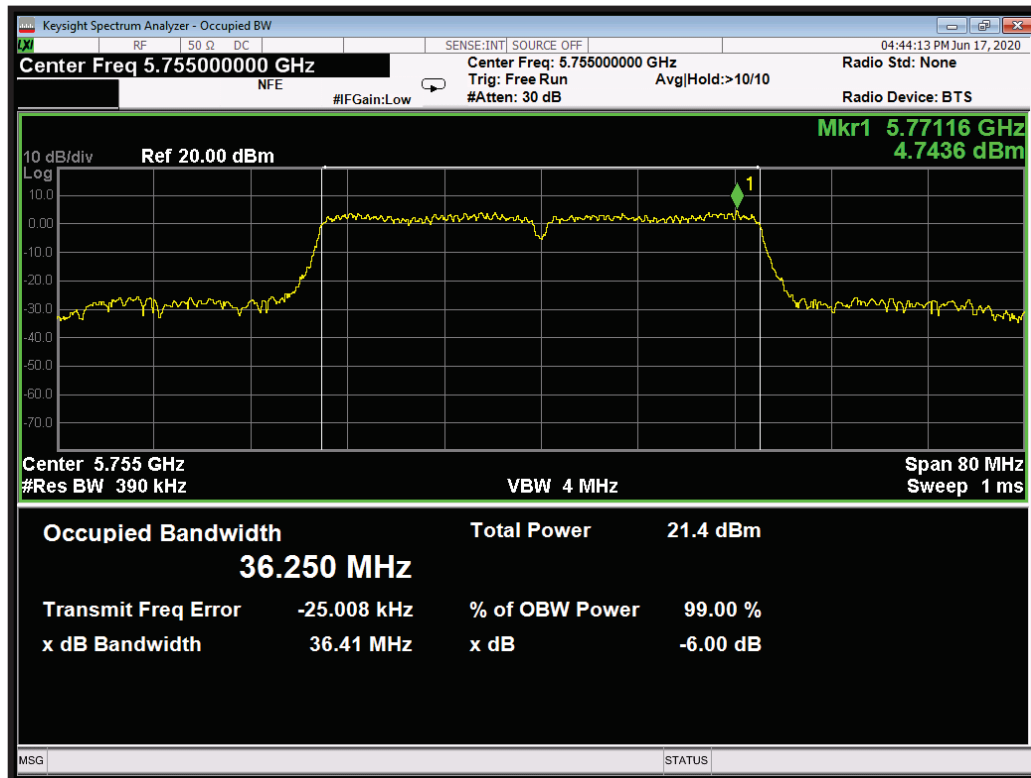




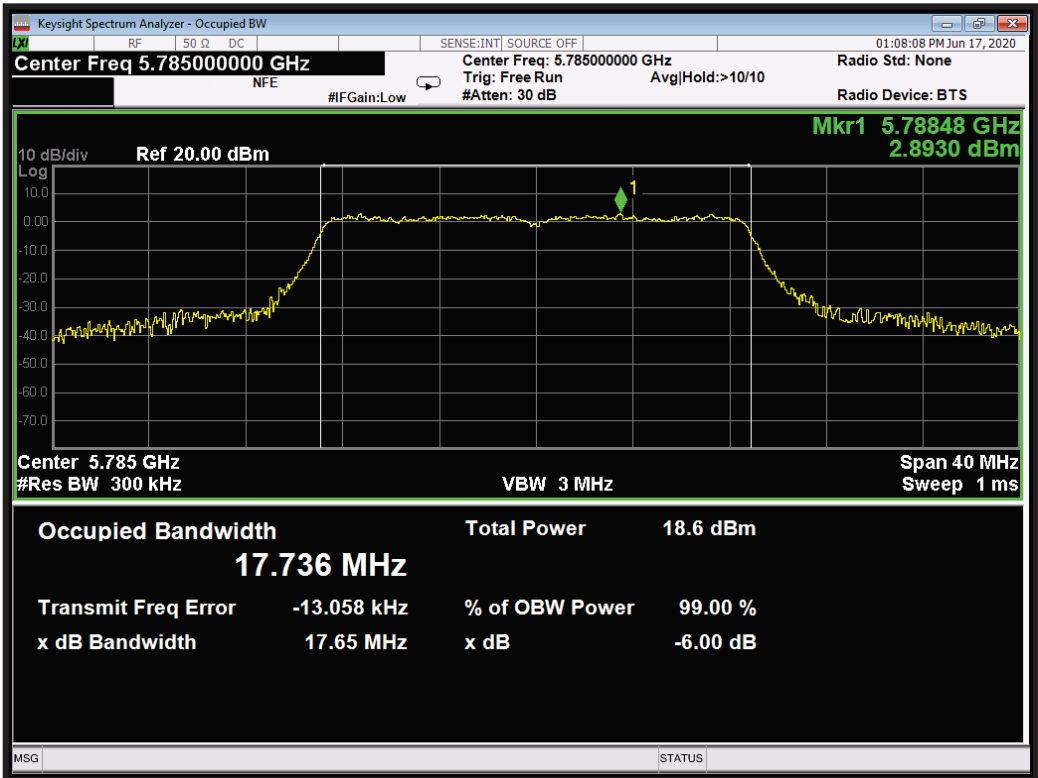
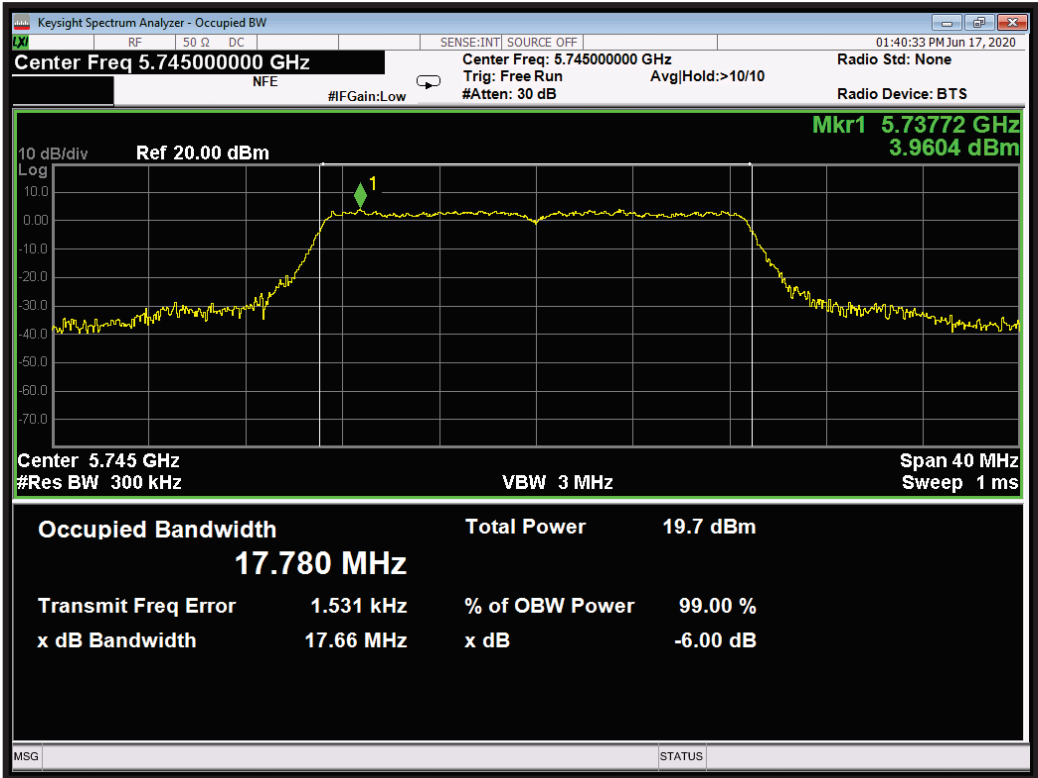
| Modulation: 802.11n-40; Data rate: MCS0; Main Antenna; |                     |                     |        |
|--------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                   | 36.33               | 36.185              | PASS   |
| 5795                                                   | 36.24               | 36.195              | PASS   |

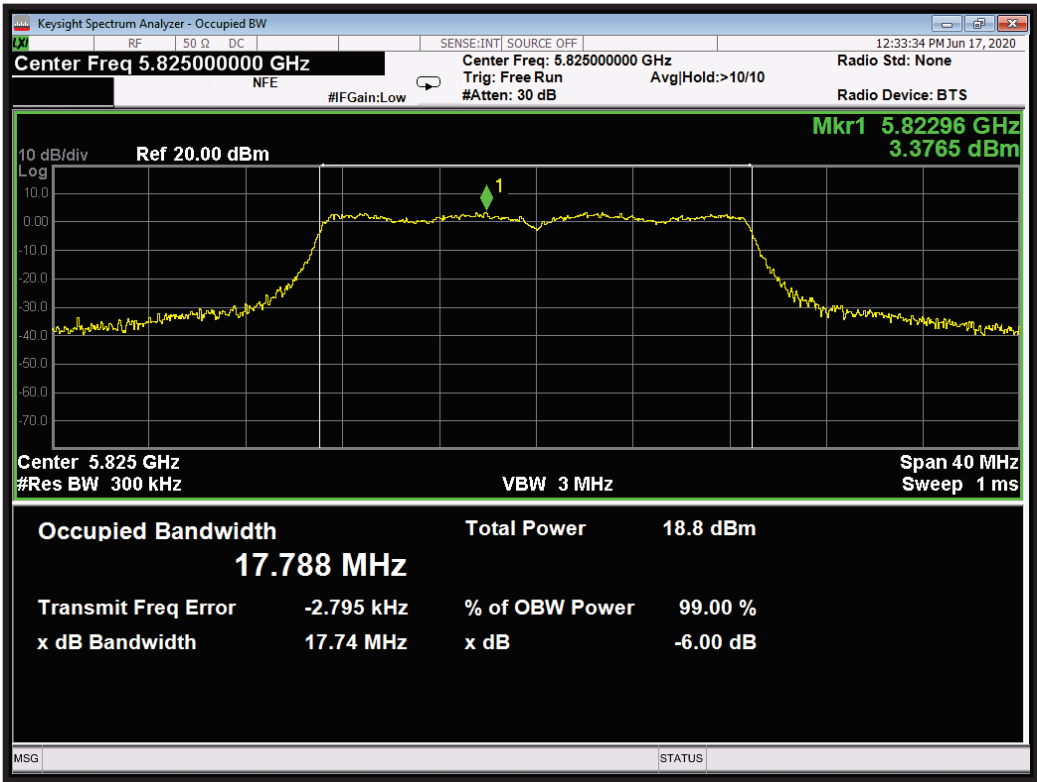


| Modulation: 802.11n-40; Data rate: MCS0; Main Antenna; |                     |                     |        |
|--------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                   | 36.41               | 36.250              | PASS   |
| 5795                                                   | 36.43               | 36.219              | PASS   |

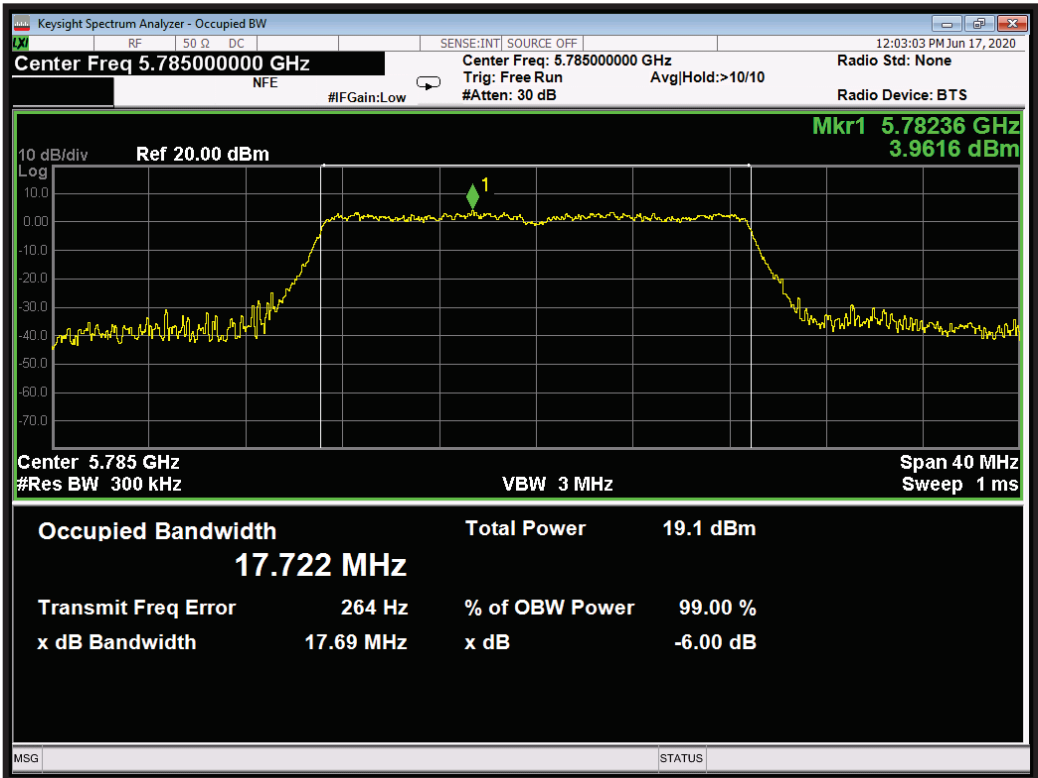
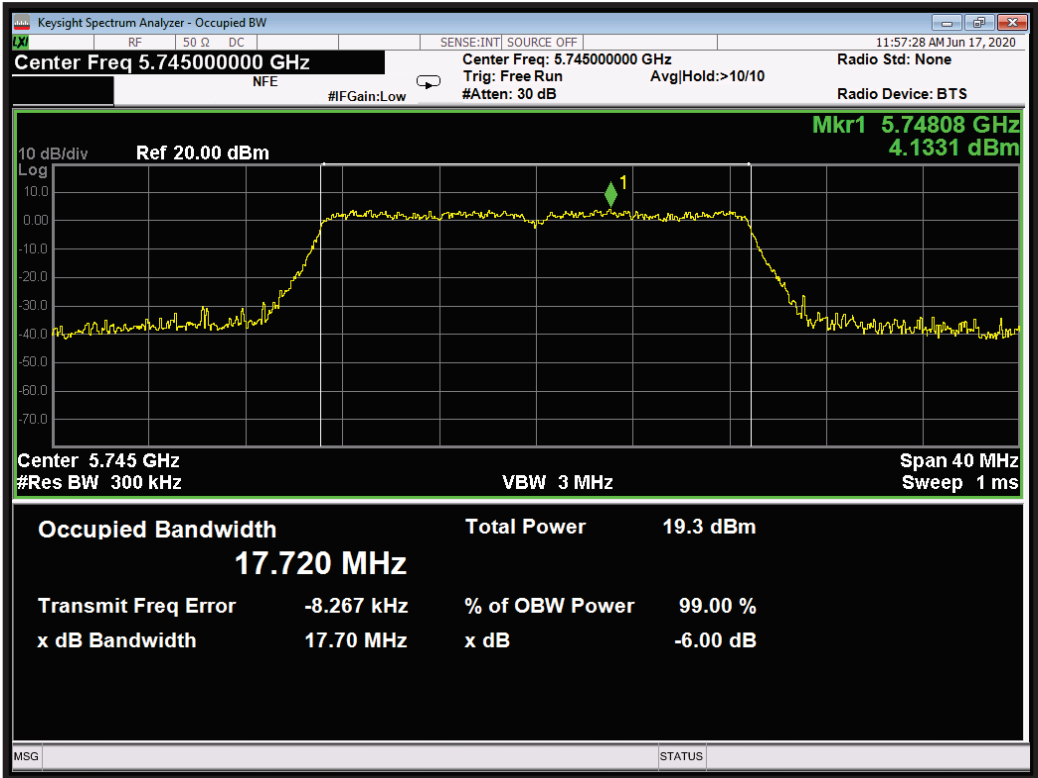


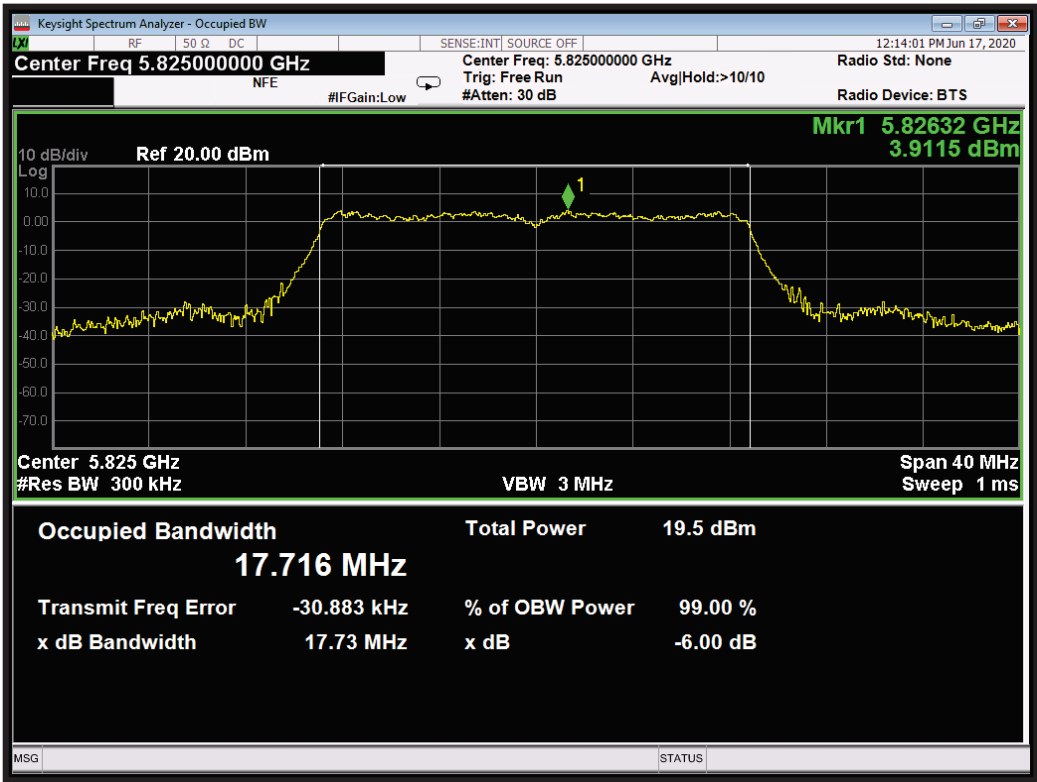
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|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                        | 17.66               | 17.780              | PASS   |
| 5785                                                        | 17.65               | 17.736              | PASS   |
| 5825                                                        | 17.74               | 17.788              | PASS   |



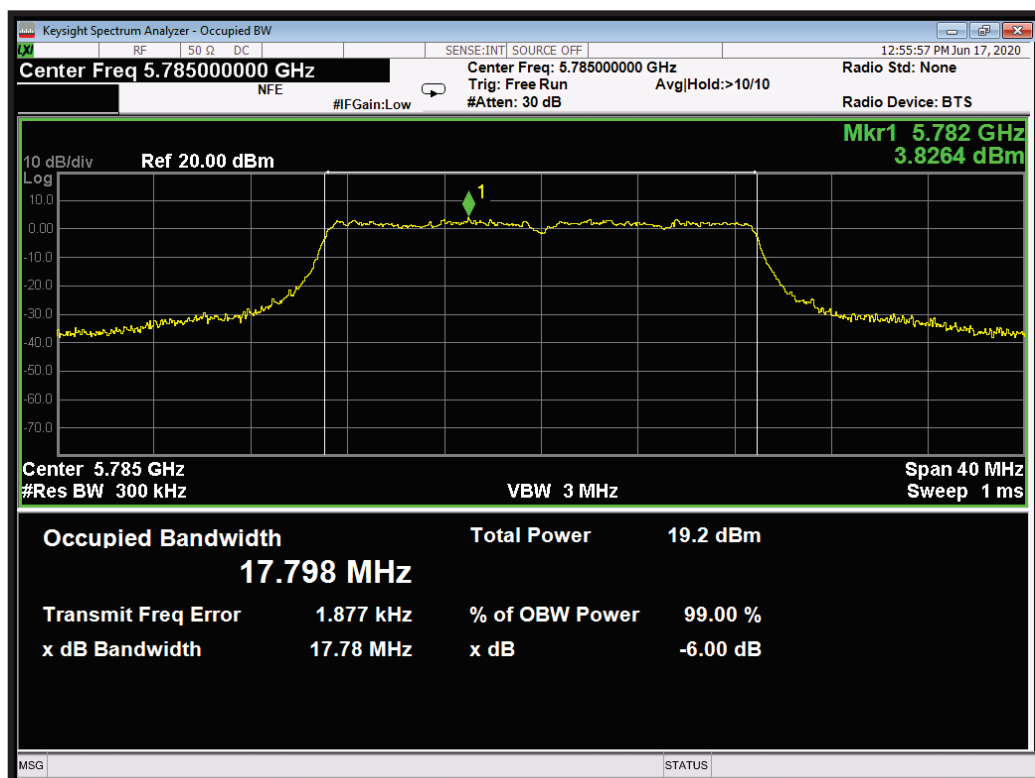
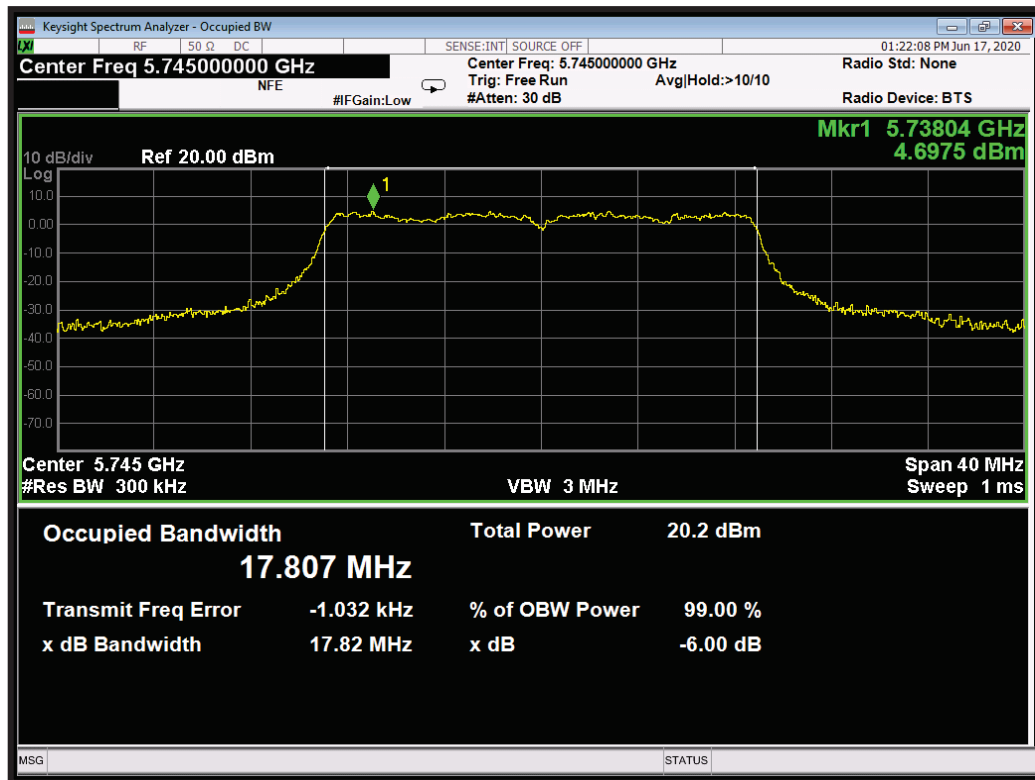


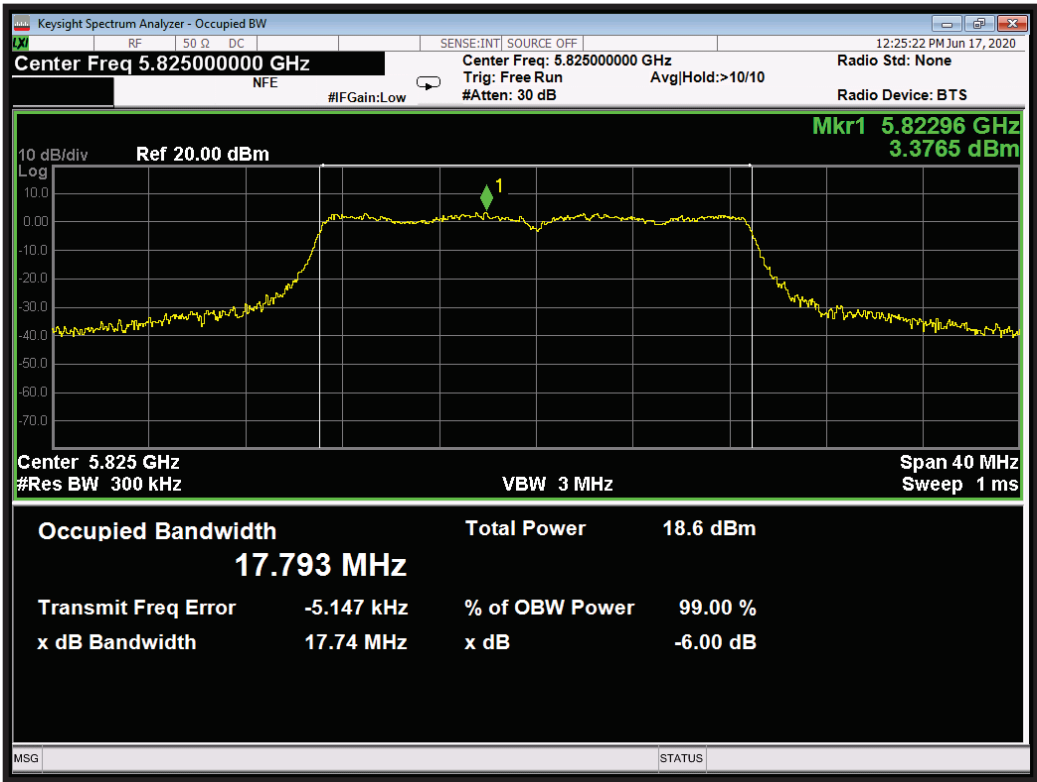
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|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                       | 17.70               | 17.720              | PASS   |
| 5785                                                       | 17.69               | 17.722              | PASS   |
| 5825                                                       | 17.73               | 17.716              | PASS   |



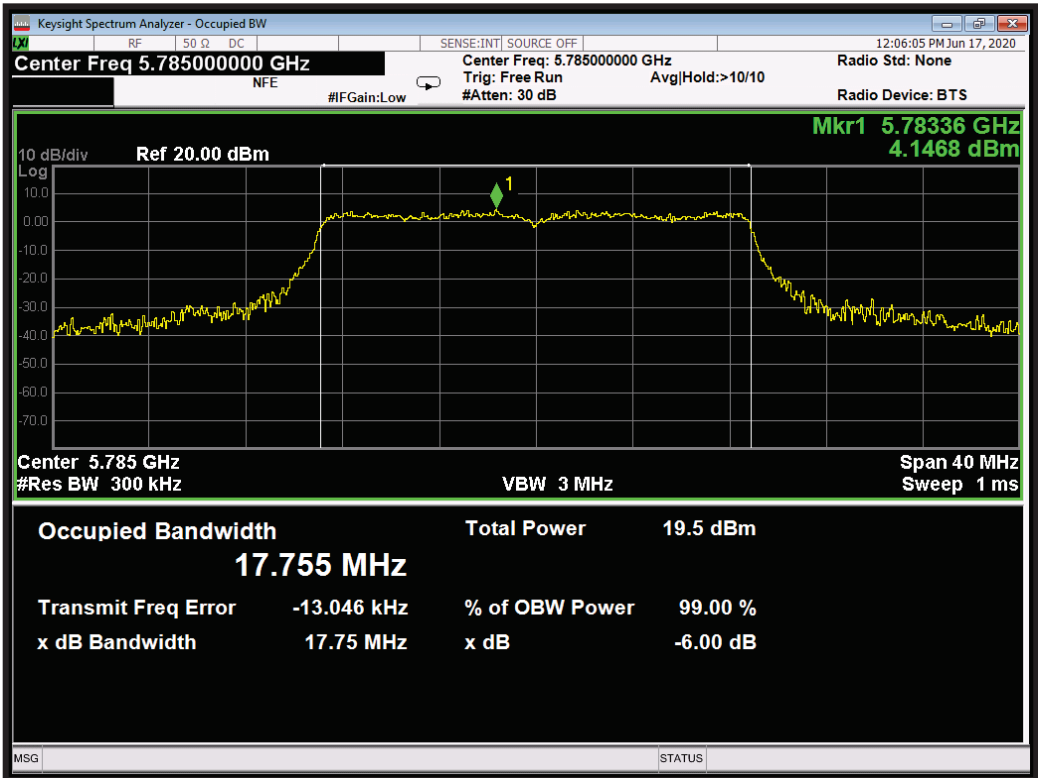
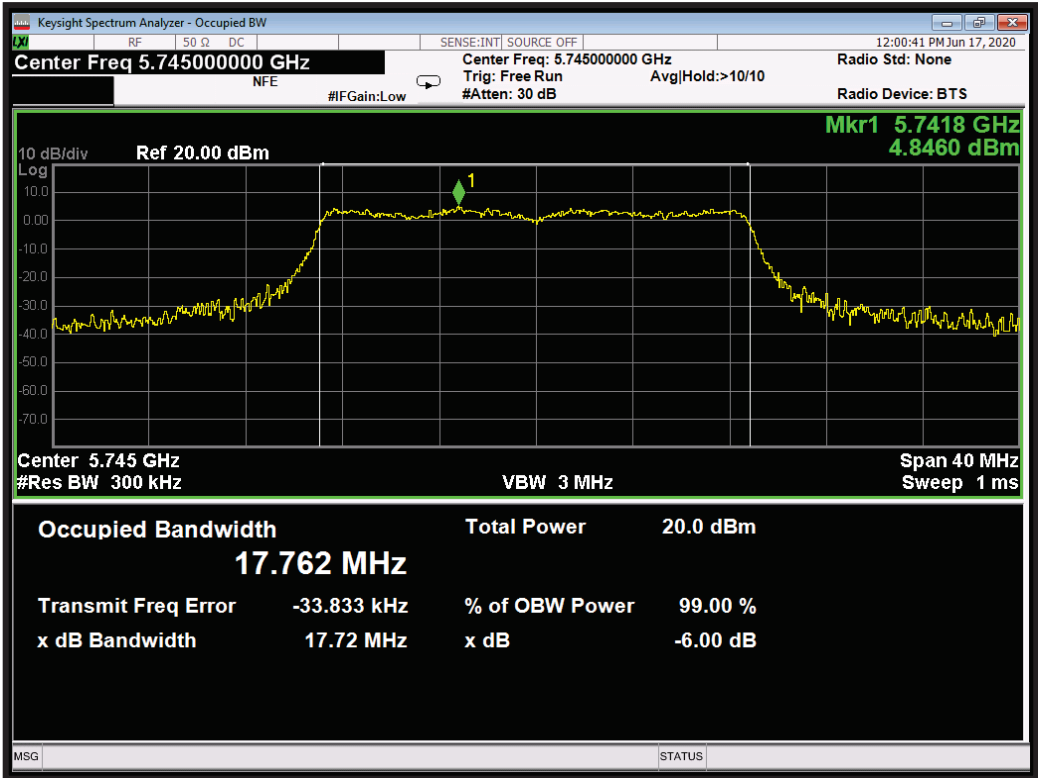


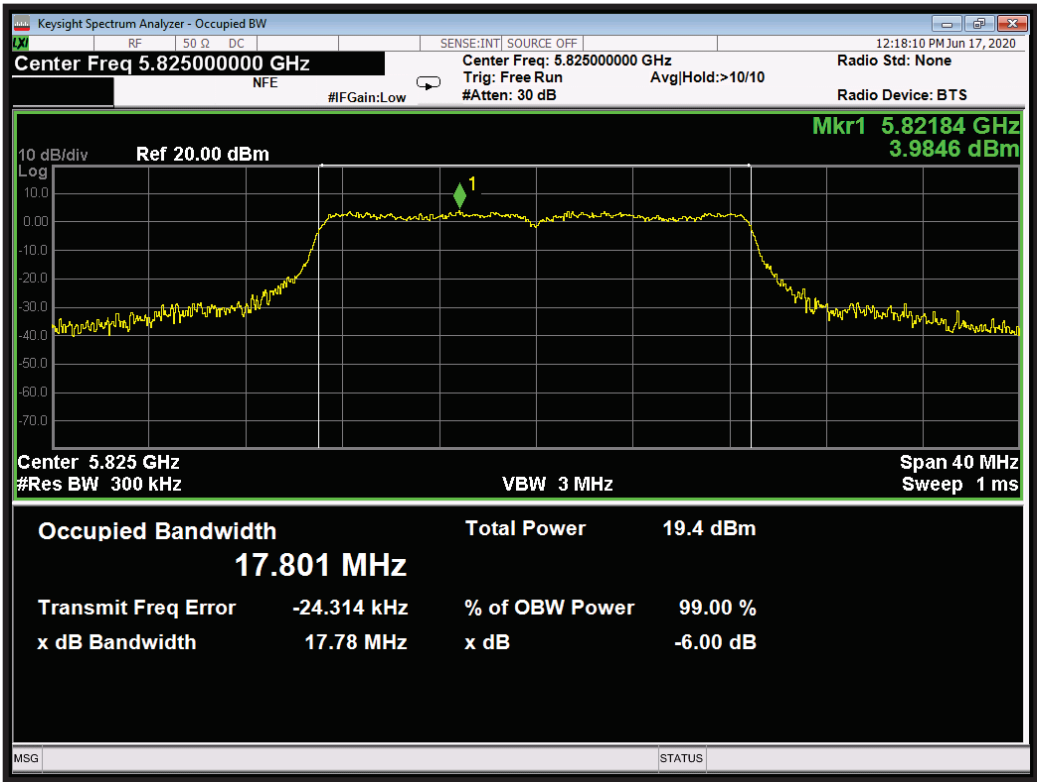
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|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                        | 17.82               | 17.807              | PASS   |
| 5785                                                        | 17.78               | 17.798              | PASS   |
| 5825                                                        | 17.74               | 17.793              | PASS   |



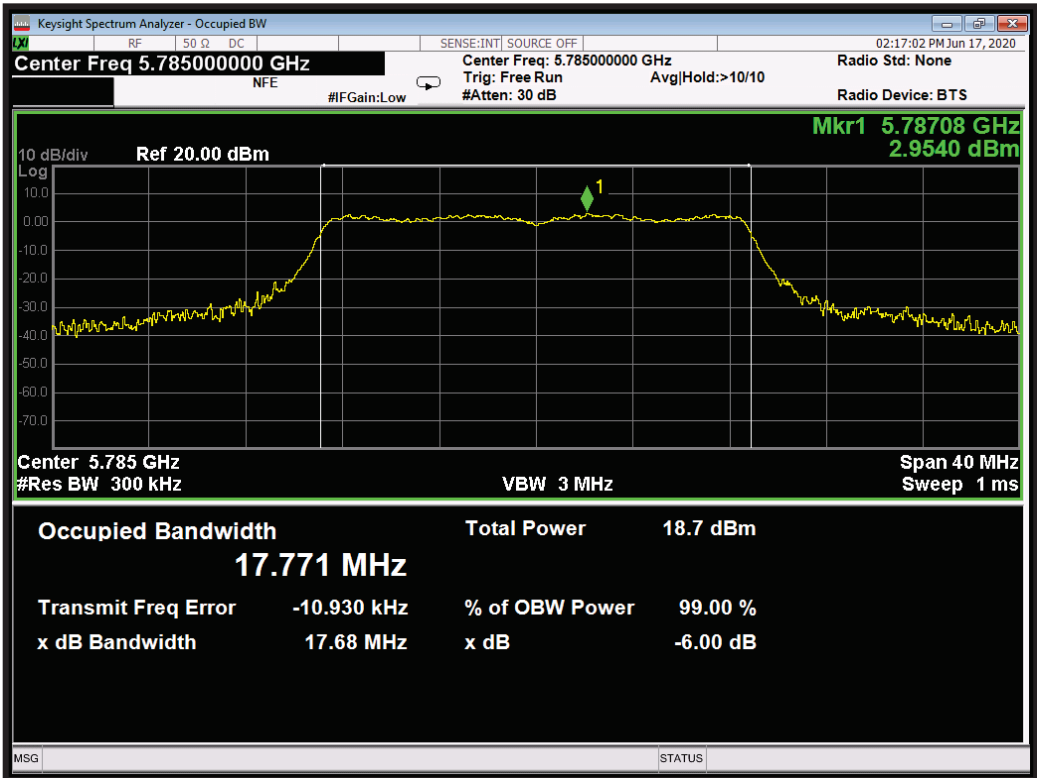
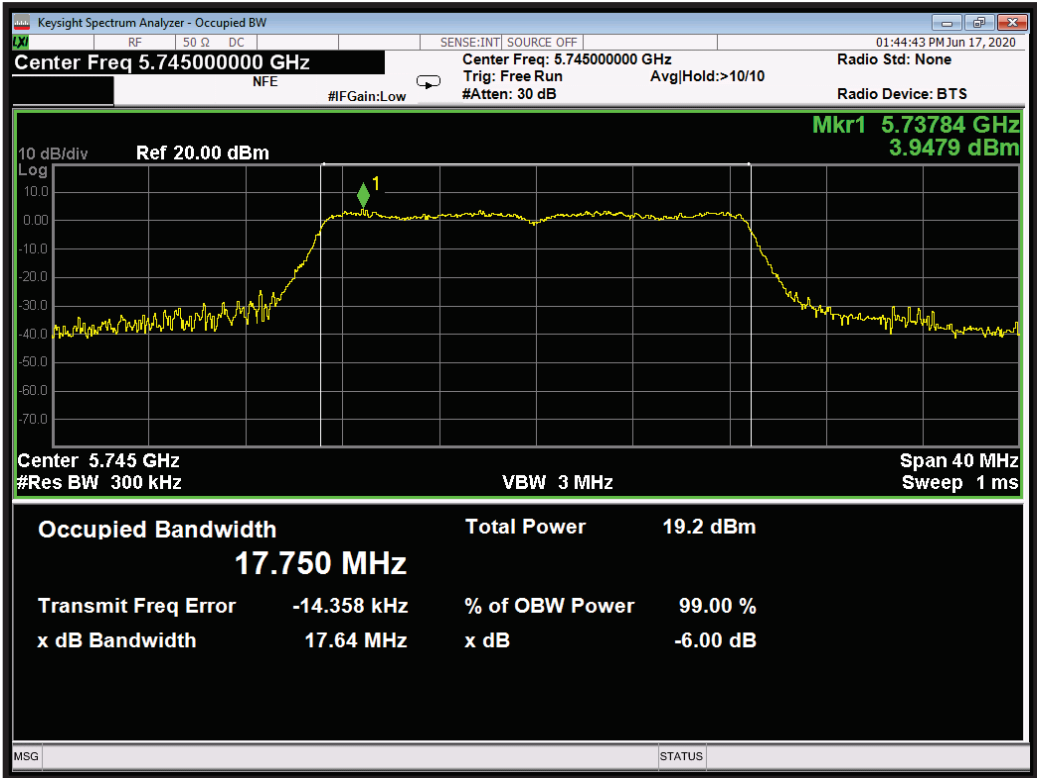


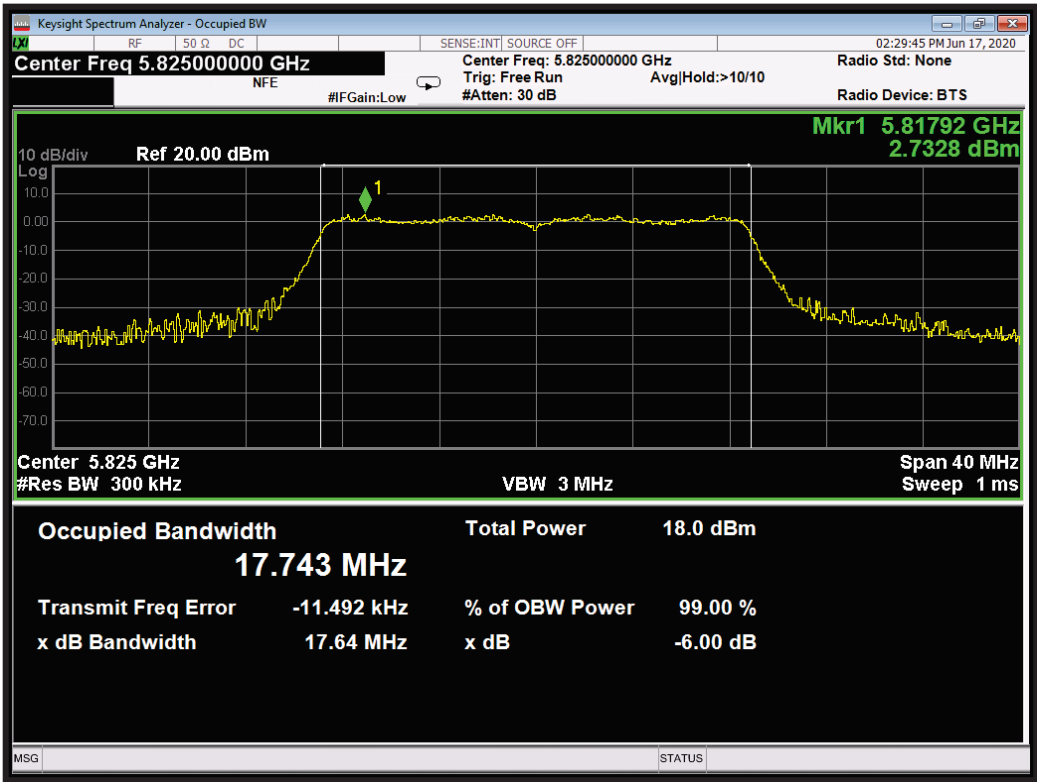
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|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                       | 17.72               | 17.762              | PASS   |
| 5785                                                       | 17.75               | 17.755              | PASS   |
| 5825                                                       | 17.78               | 17.801              | PASS   |



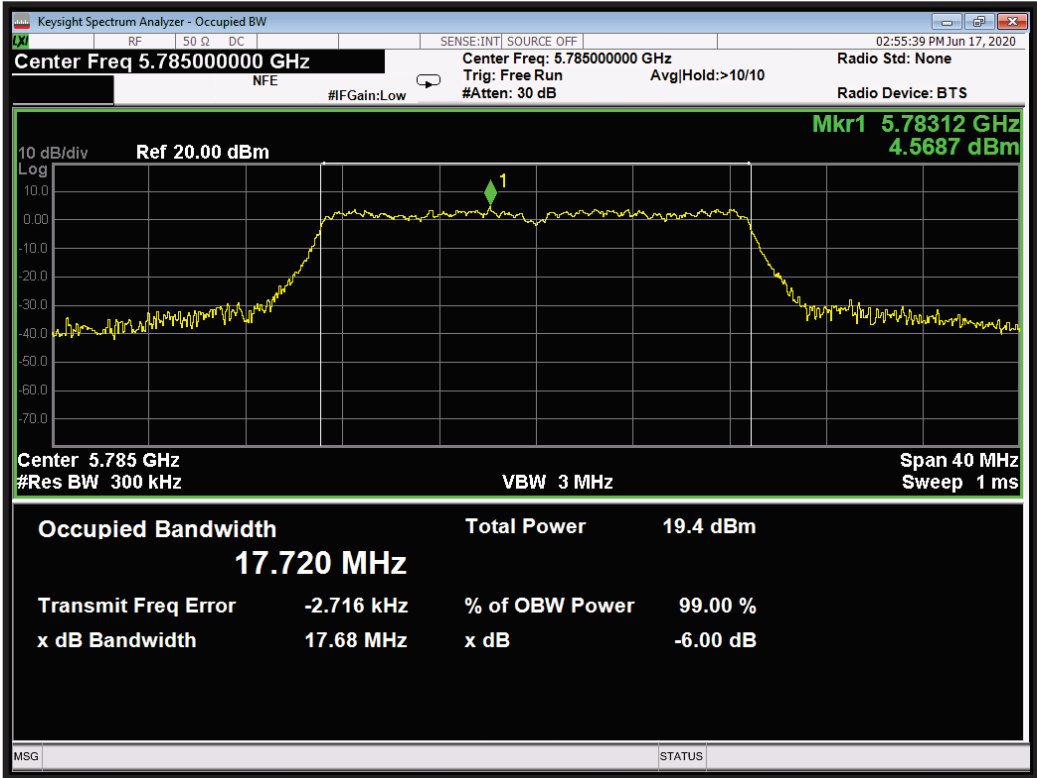
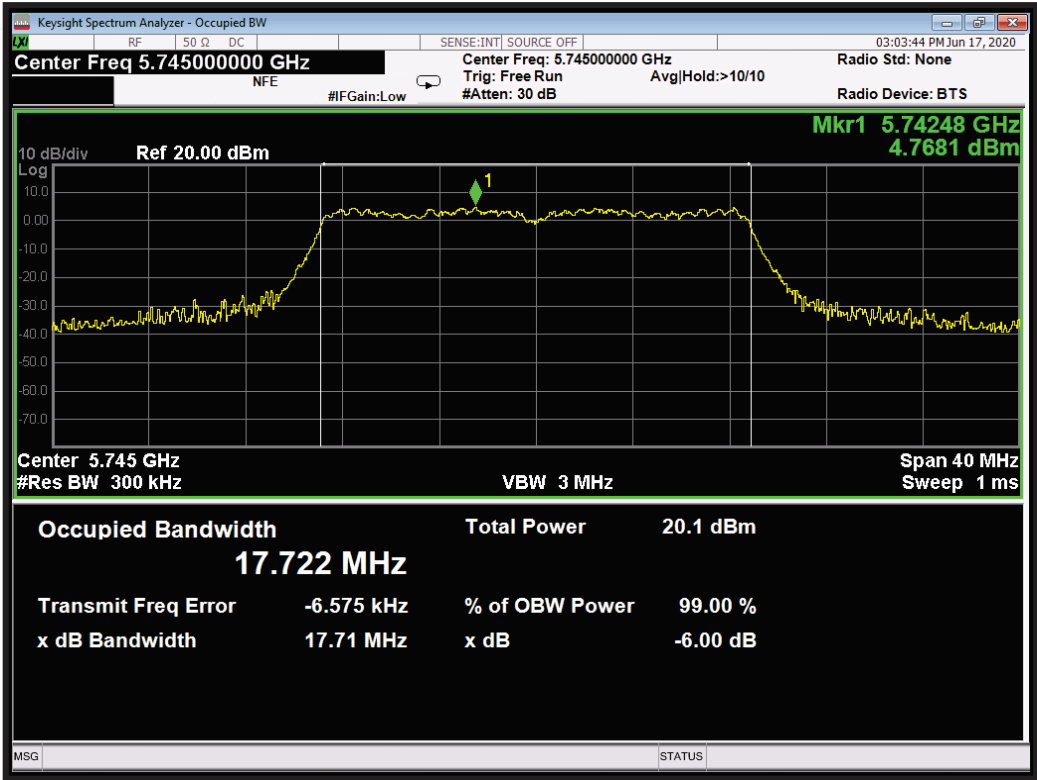


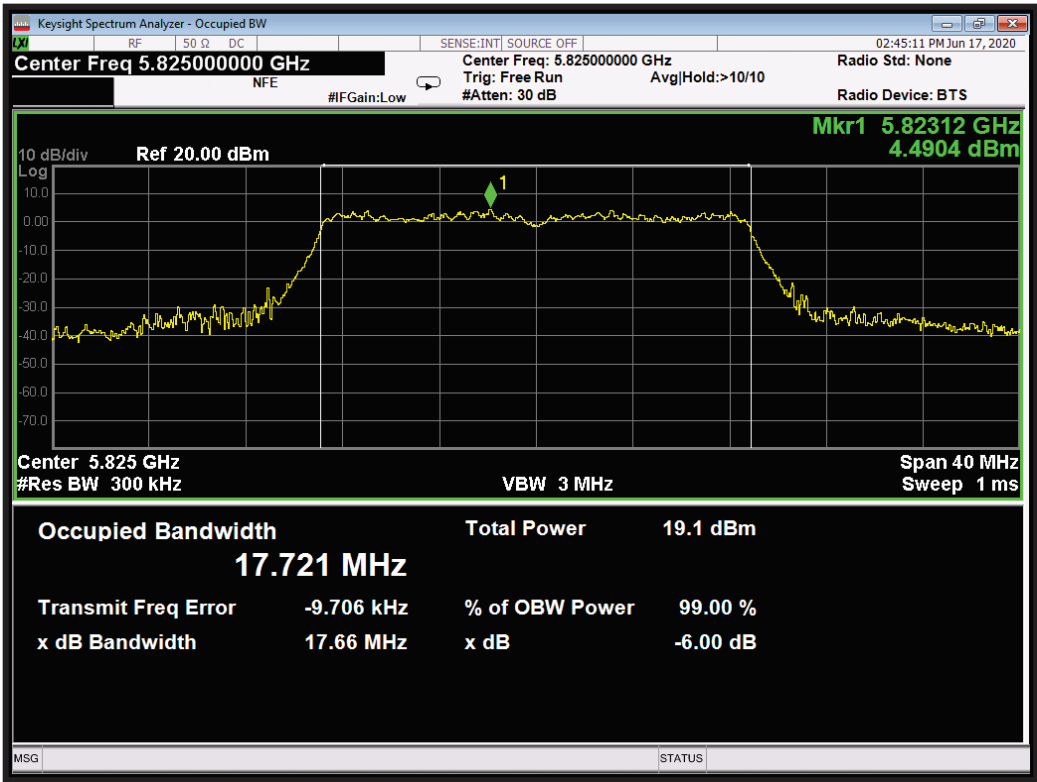
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|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                        | 17.64               | 17.750              | PASS   |
| 5785                                                        | 17.68               | 17.771              | PASS   |
| 5825                                                        | 17.64               | 17.743              | PASS   |



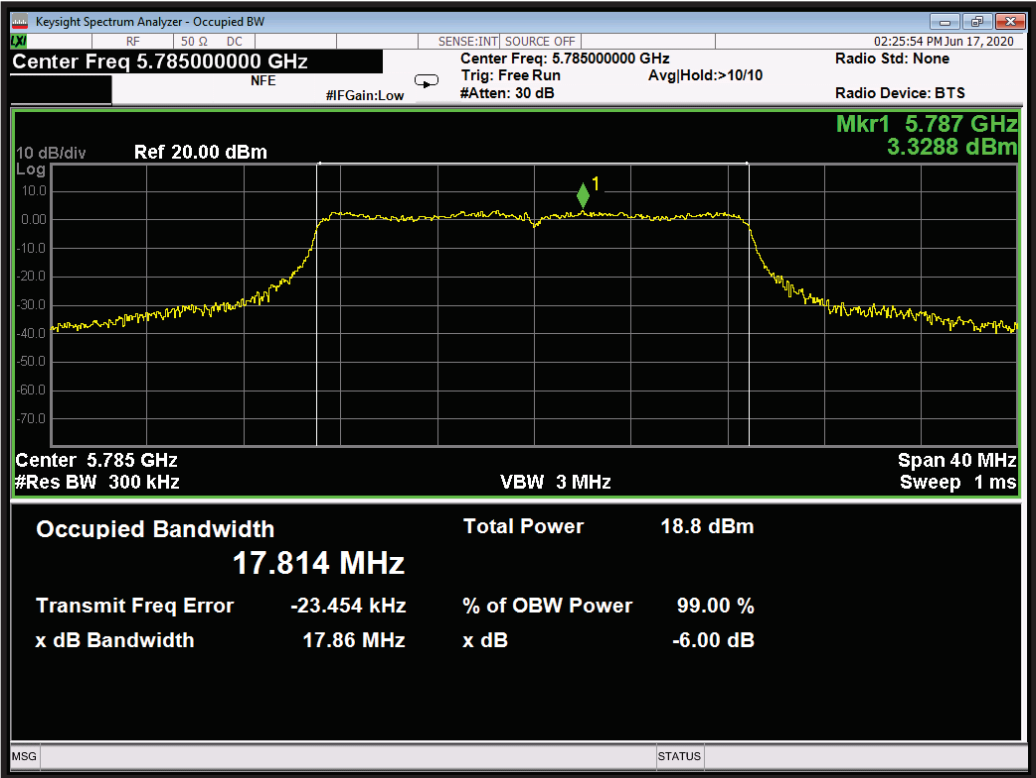
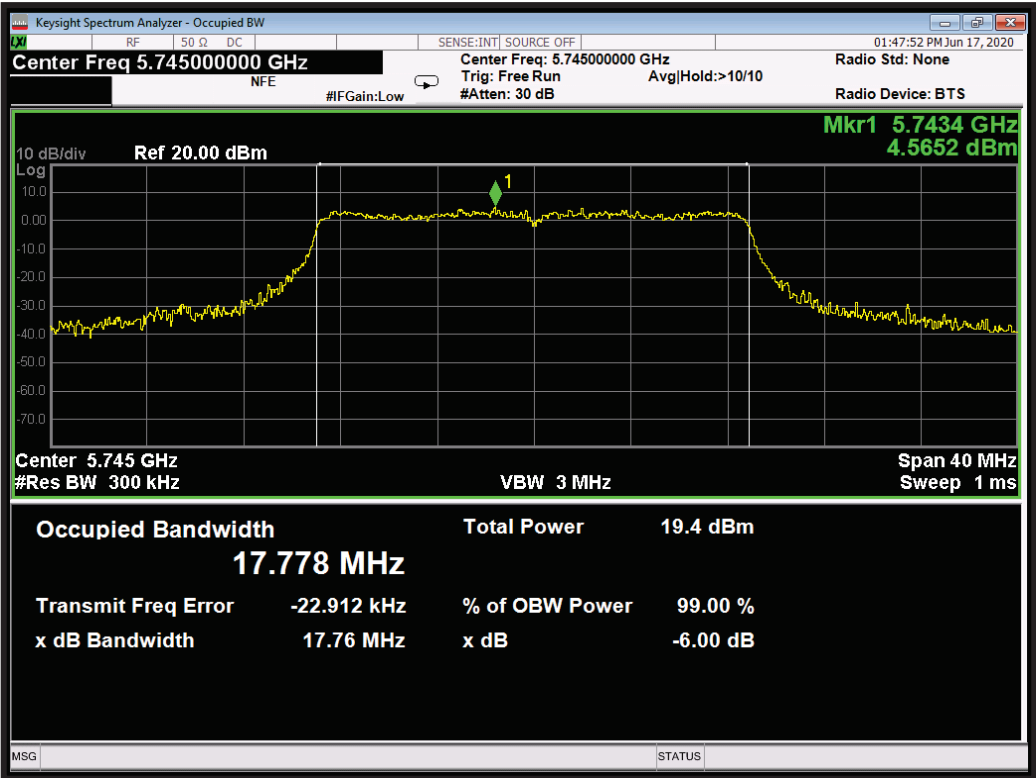


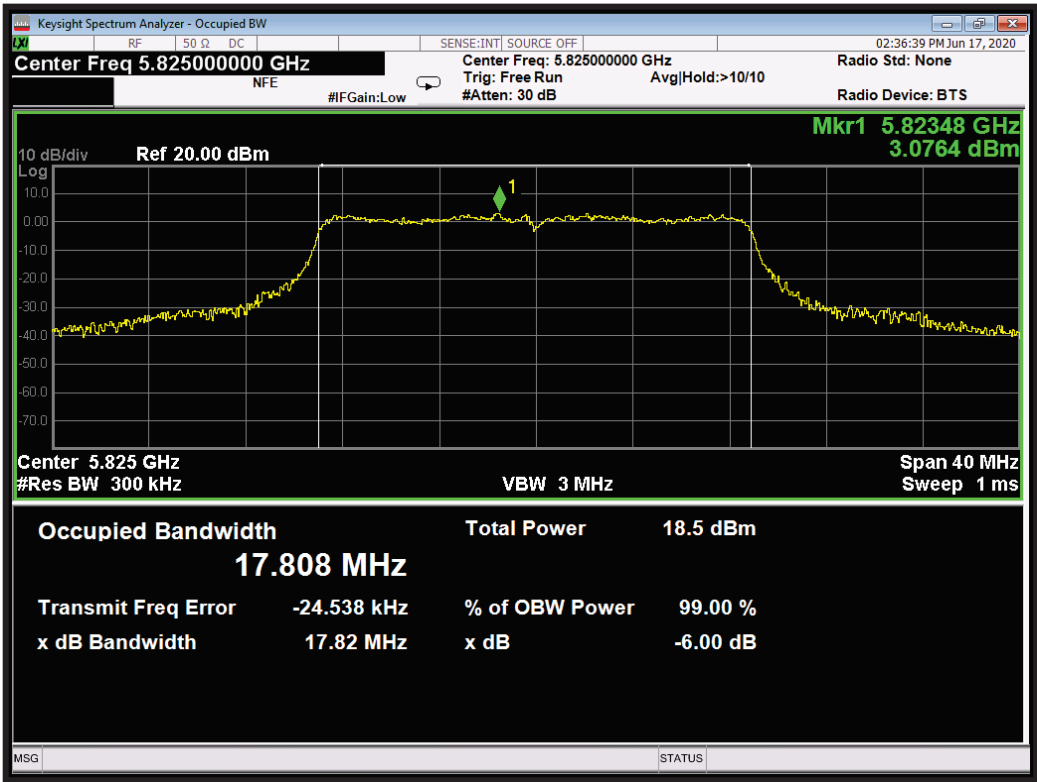
| Modulation: 802.11ac-20; Data rate: MCS0 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                       | 17.71               | 17.722              | PASS   |
| 5785                                                       | 17.68               | 17.720              | PASS   |
| 5825                                                       | 17.66               | 17.721              | PASS   |



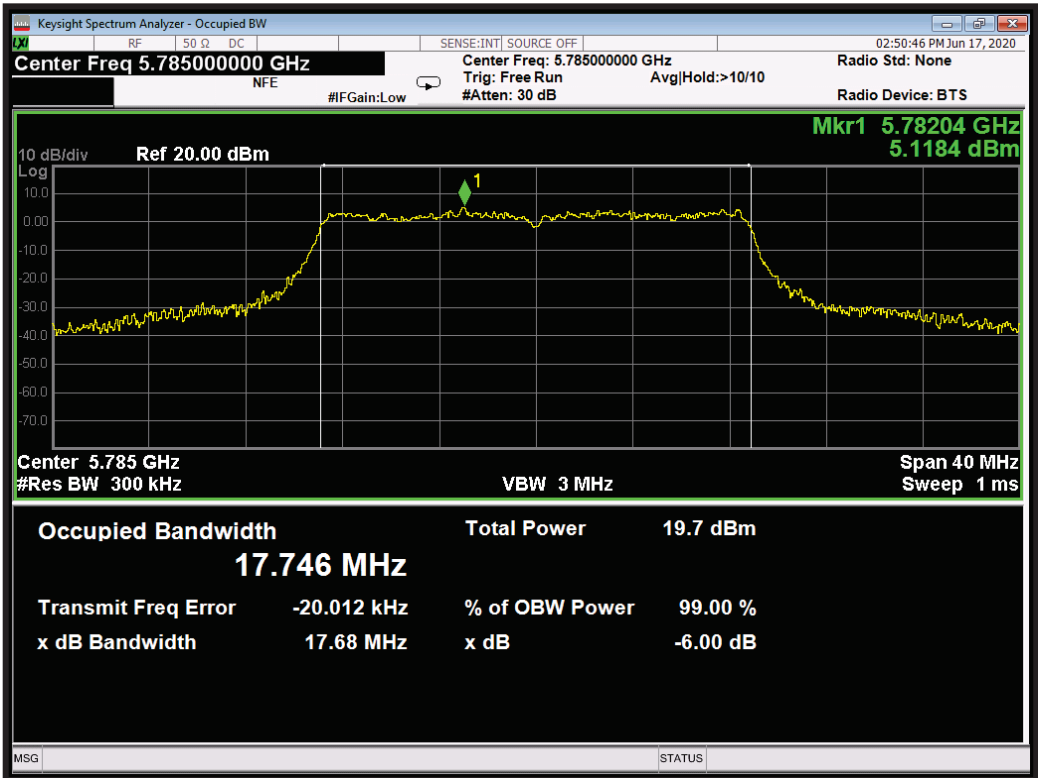
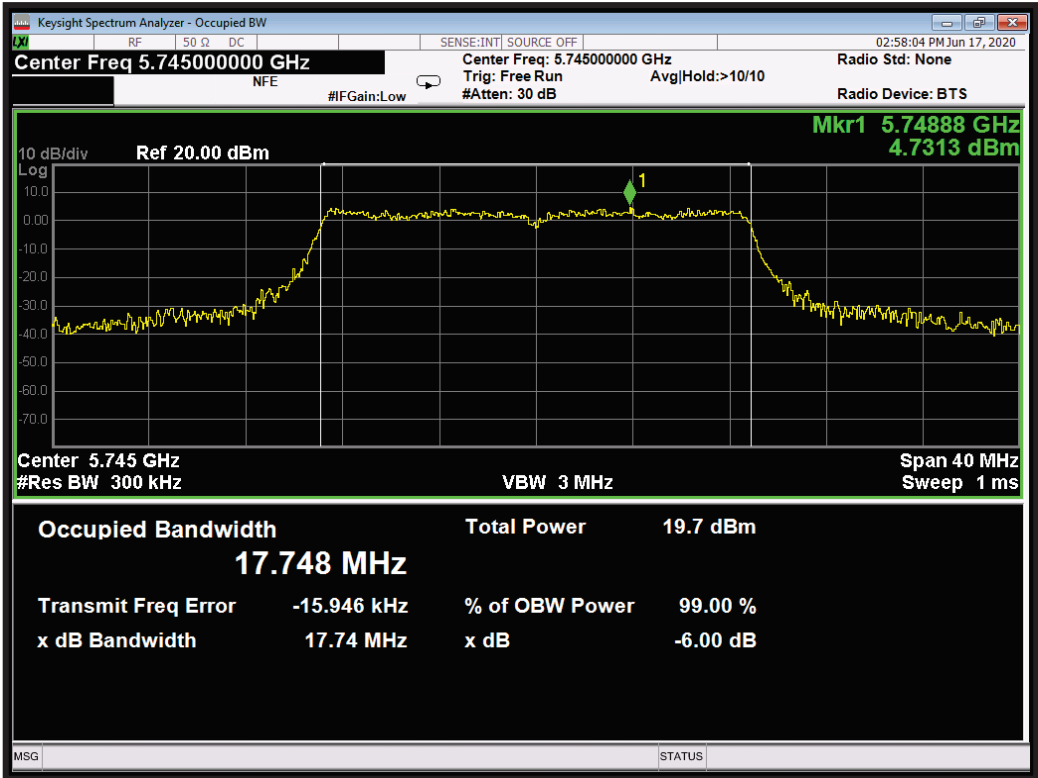


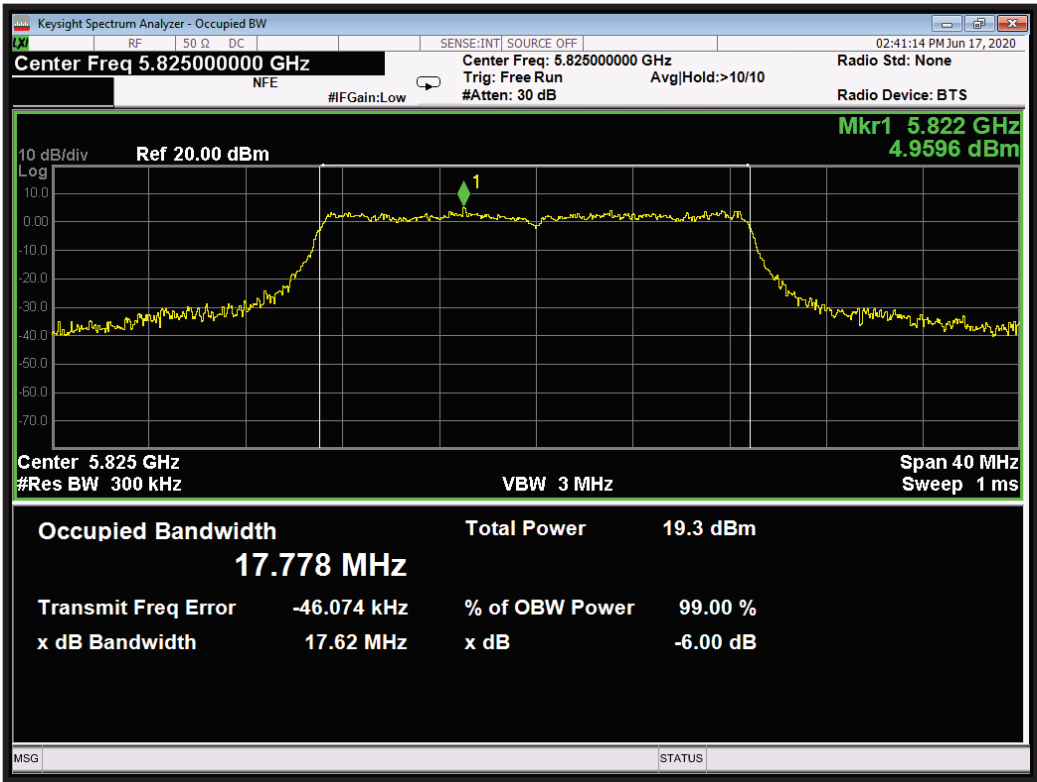
| Modulation: 802.11ac-20; Data rate: MCS8 2SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                        | 17.76               | 17.778              | PASS   |
| 5785                                                        | 17.86               | 17.814              | PASS   |
| 5825                                                        | 17.82               | 17.808              | PASS   |



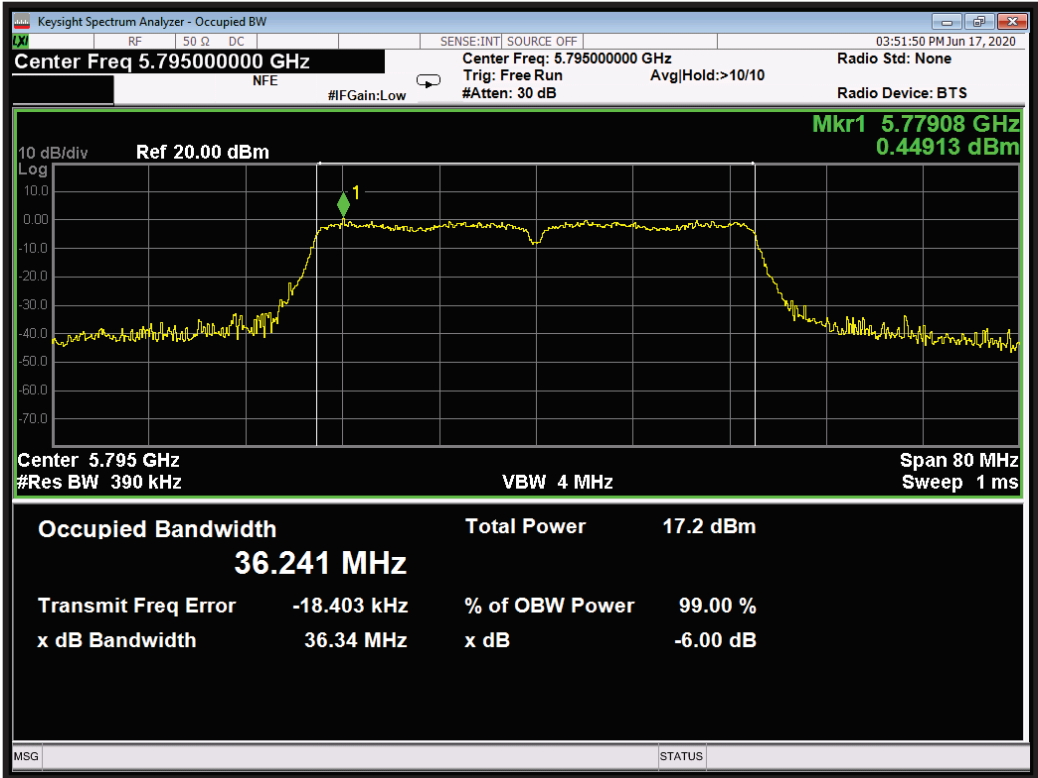
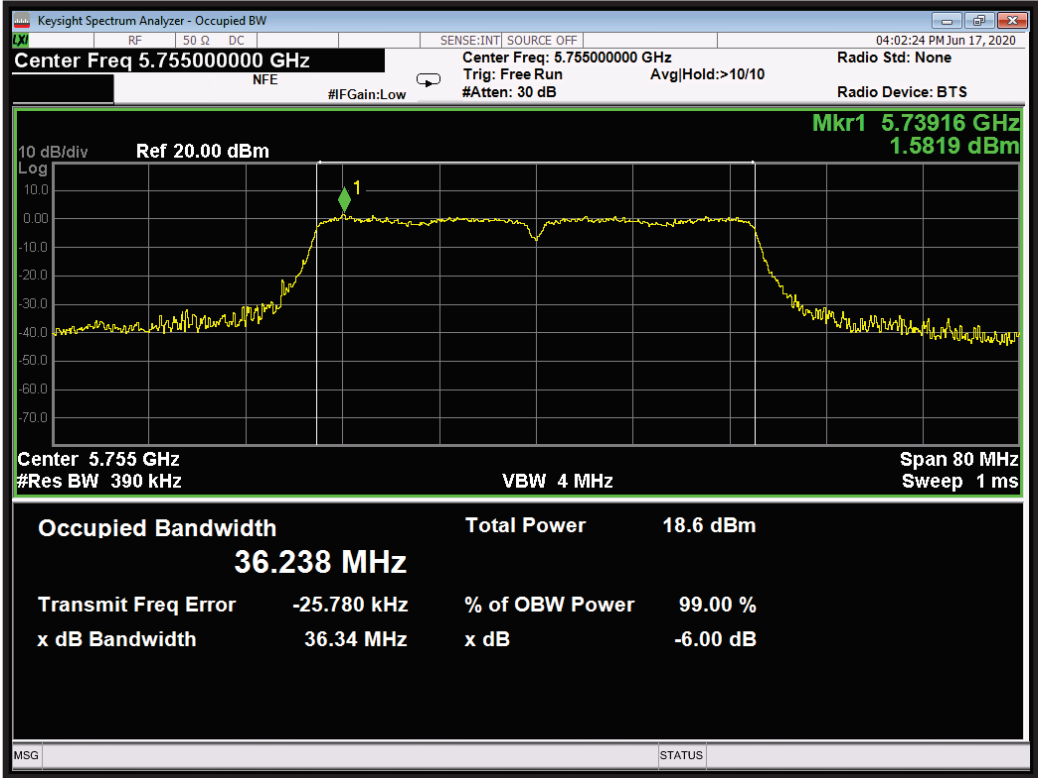


| Modulation: 802.11ac-20; Data rate: MCS8 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5745                                                       | 17.74               | 17.748              | PASS   |
| 5785                                                       | 17.68               | 17.746              | PASS   |
| 5825                                                       | 17.62               | 17.778              | PASS   |

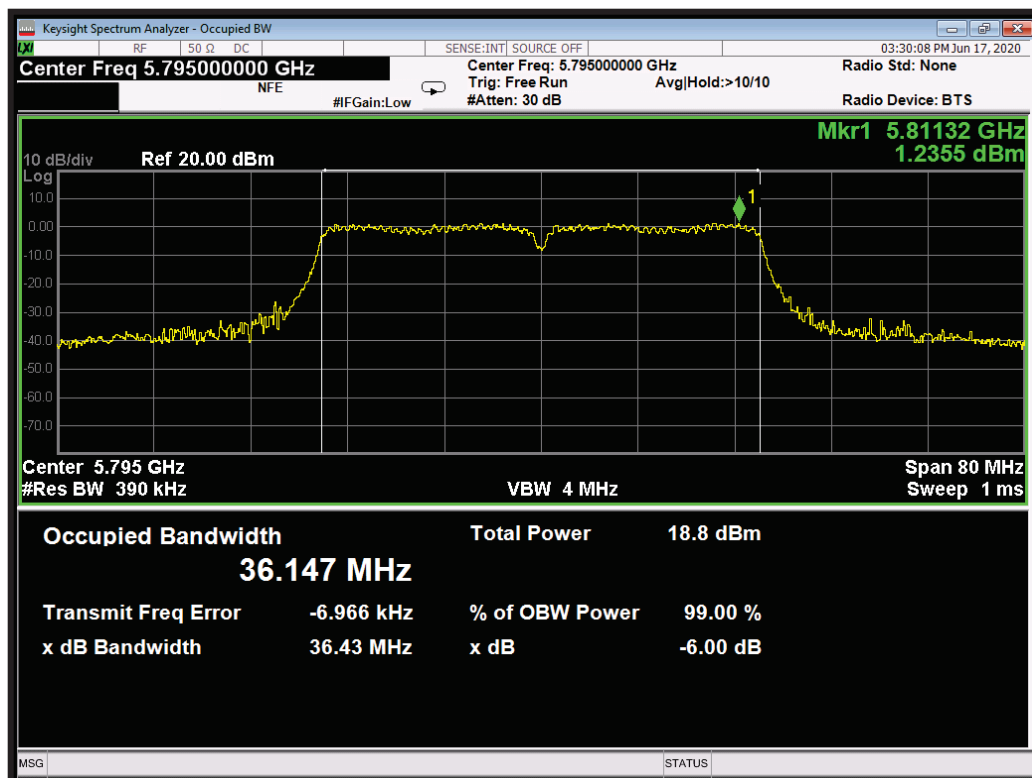
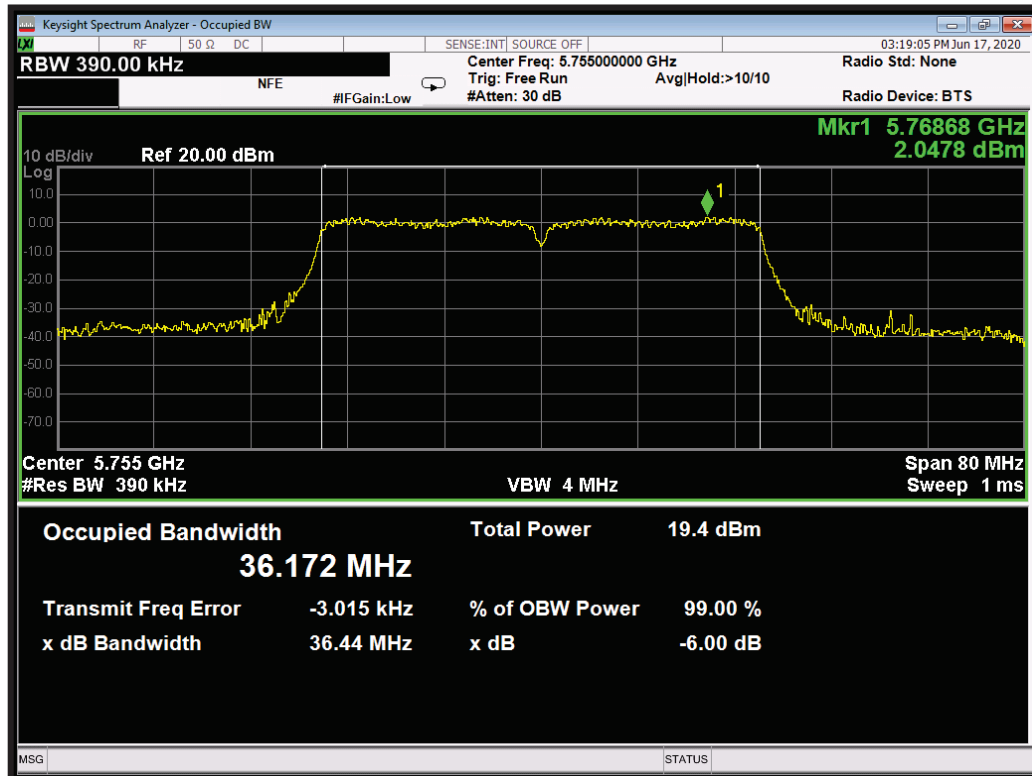




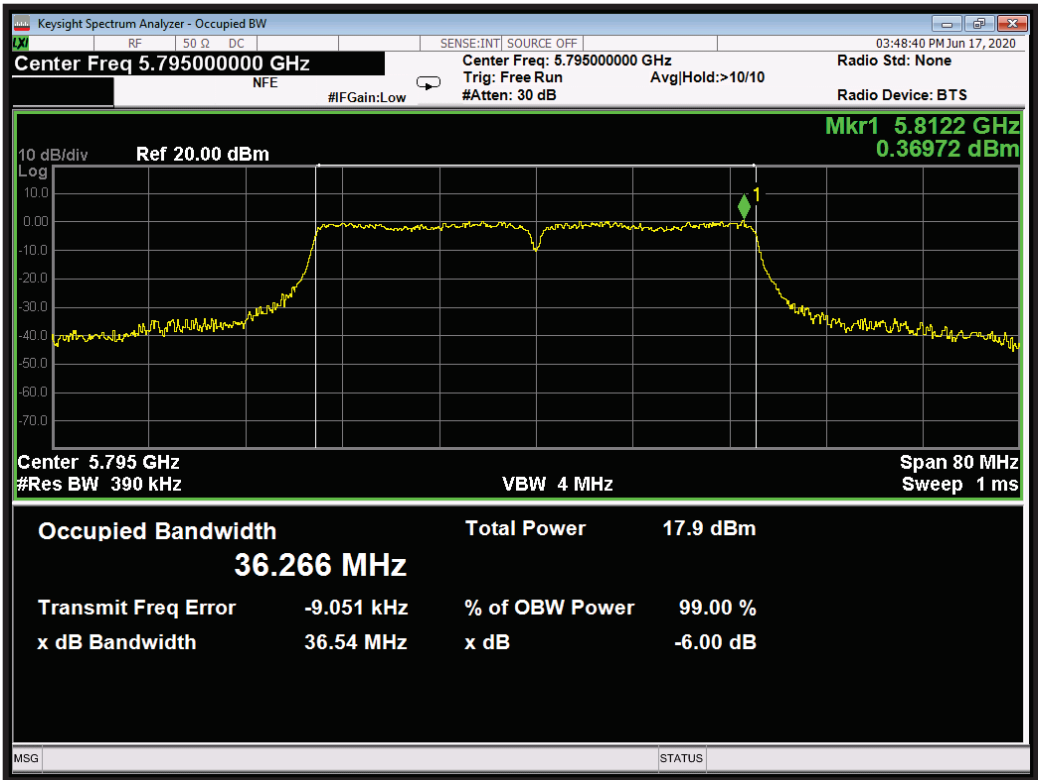
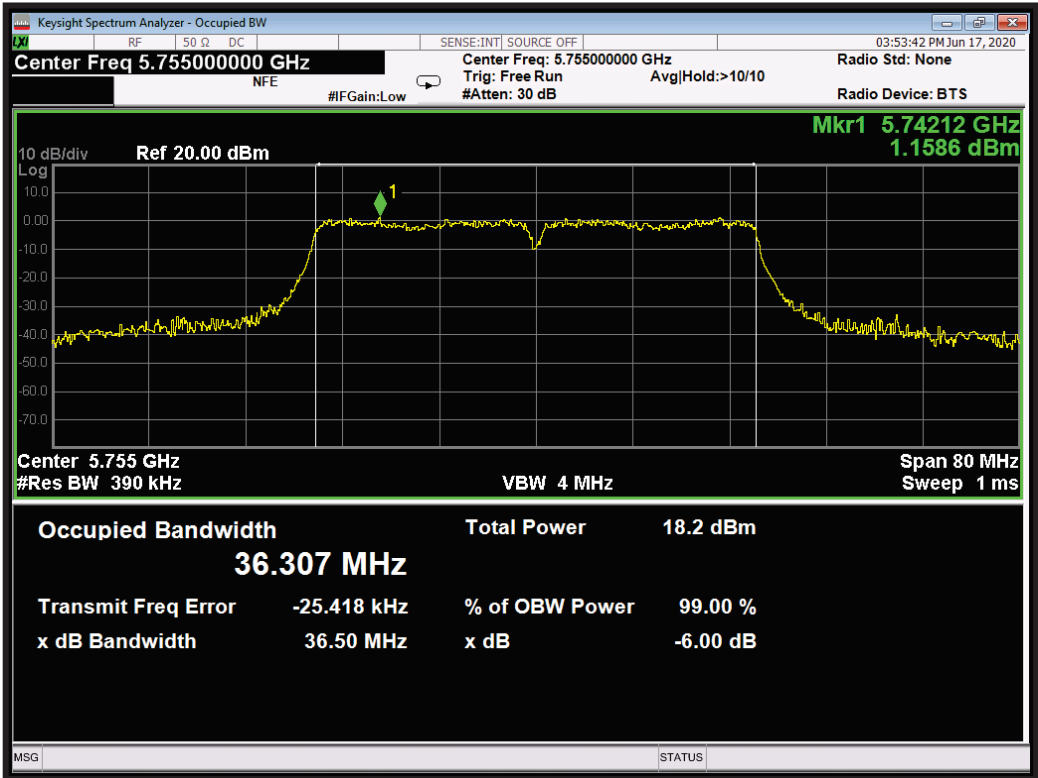
| Modulation: 802.11ac-40; Data rate: MCS0 1SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                        | 36.34               | 36.238              | PASS   |
| 5795                                                        | 36.34               | 36.241              | PASS   |



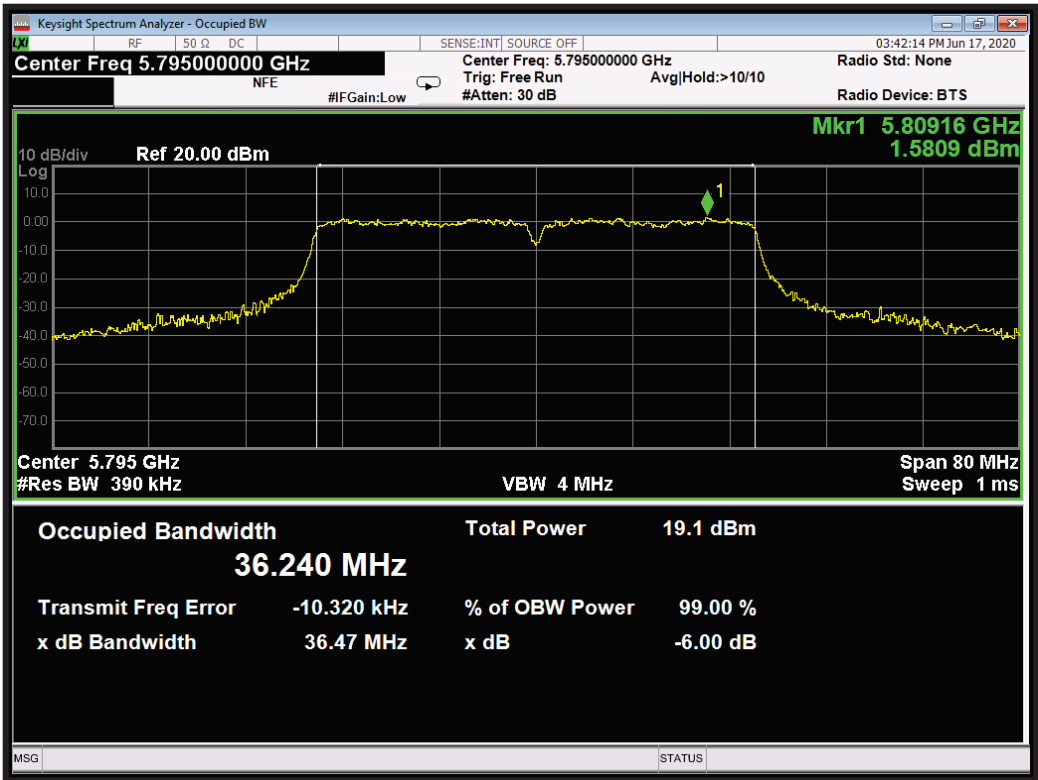
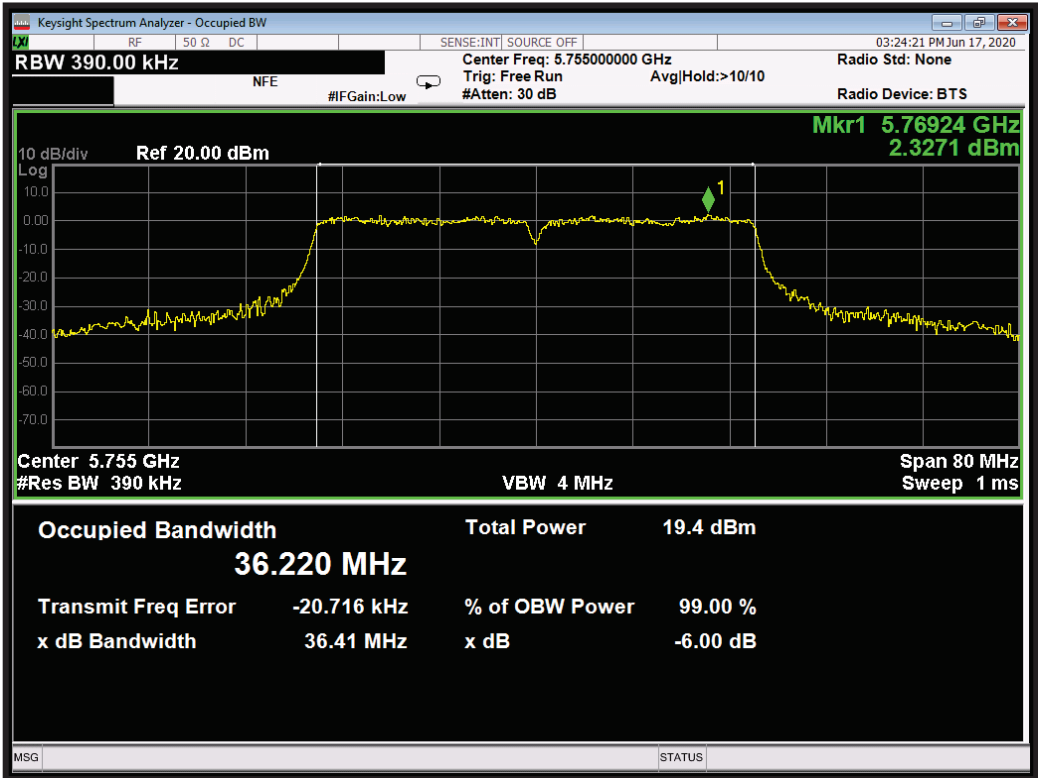
| Modulation: 802.11ac-40; Data rate: MCS0 1SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                       | 36.44               | 36.172              | PASS   |
| 5795                                                       | 36.43               | 36.147              | PASS   |



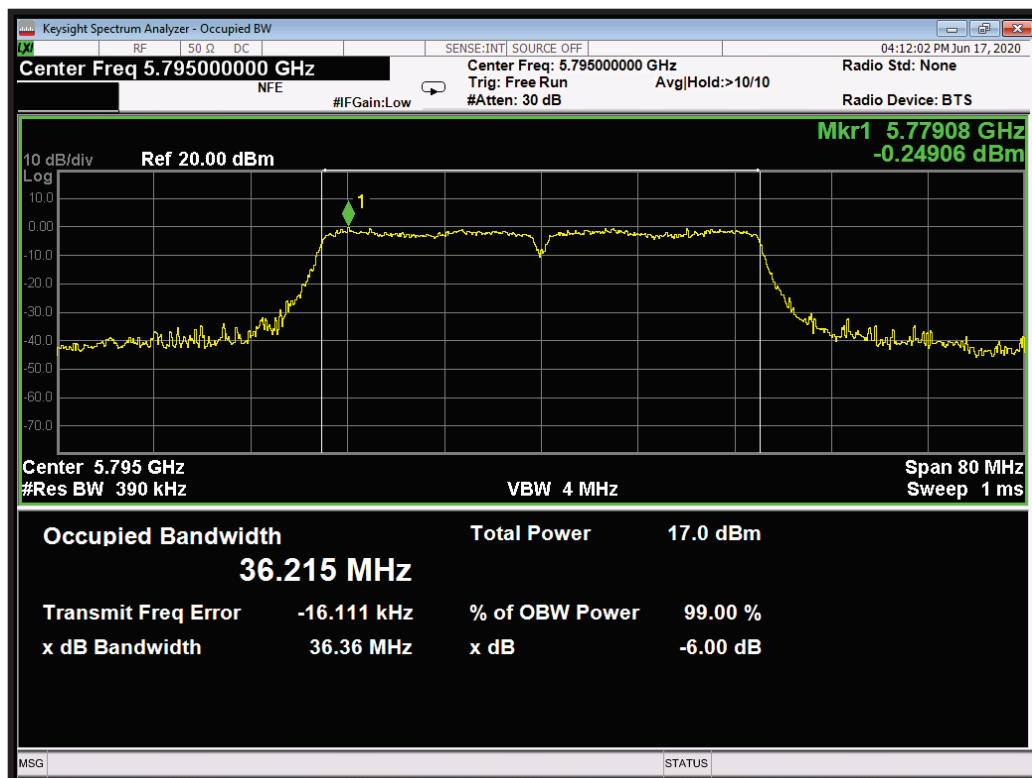
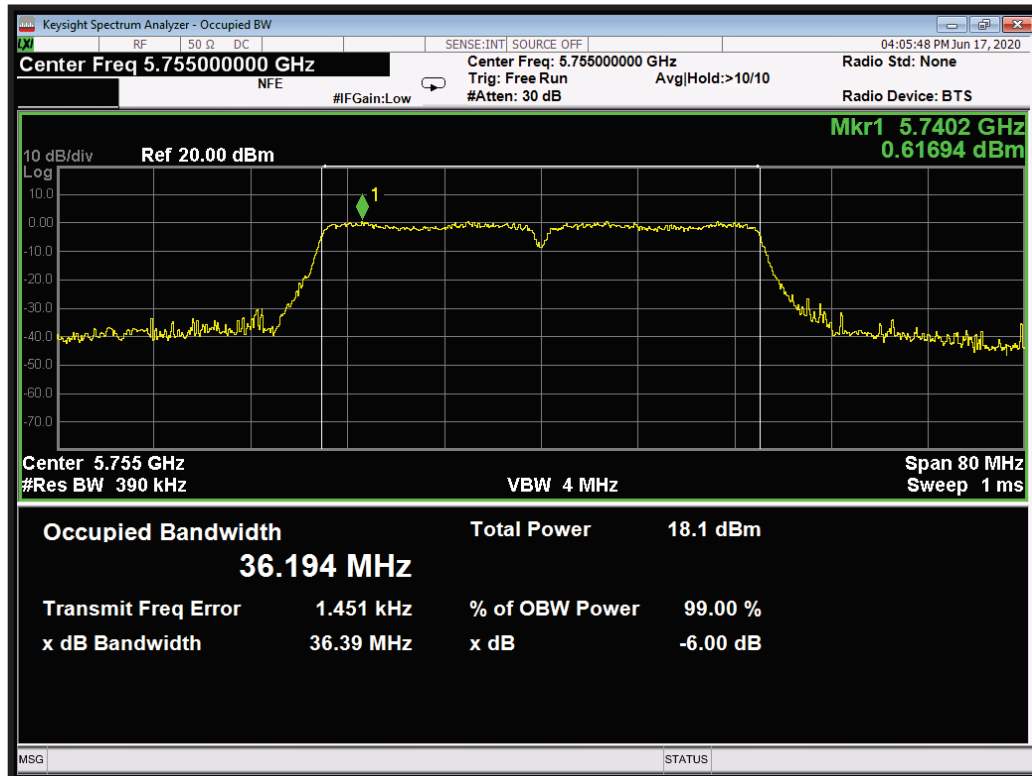
| Modulation: 802.11ac-40; Data rate: MCS9 1SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                        | 36.50               | 36.307              | PASS   |
| 5795                                                        | 36.54               | 36.266              | PASS   |



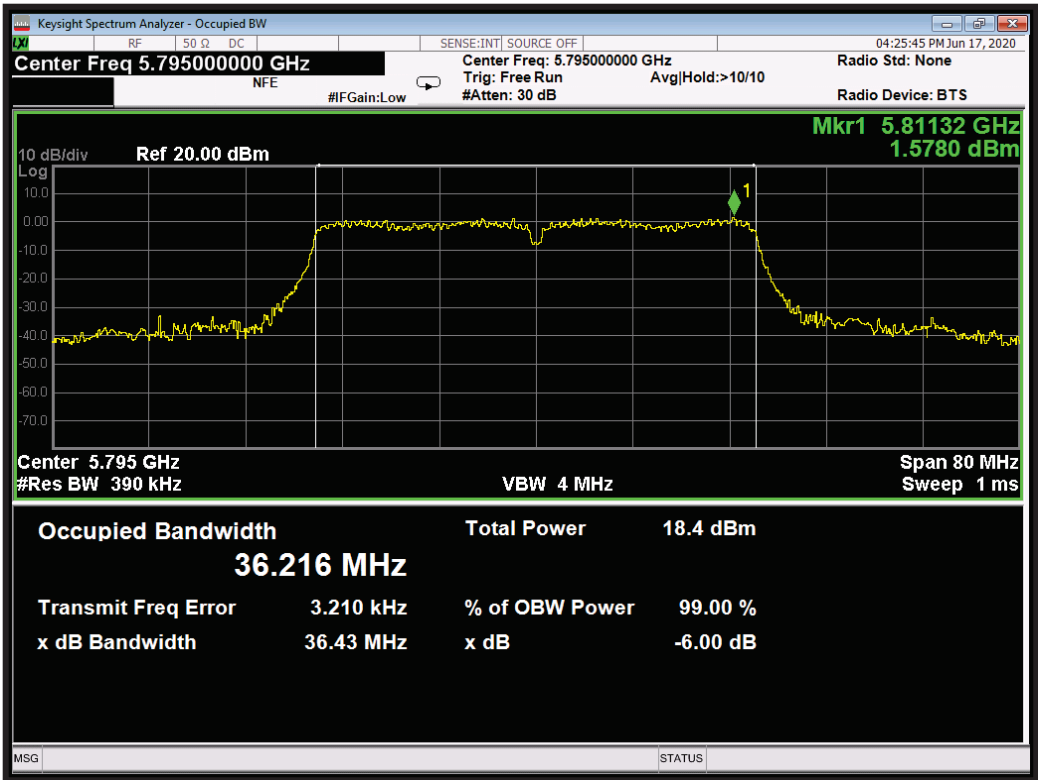
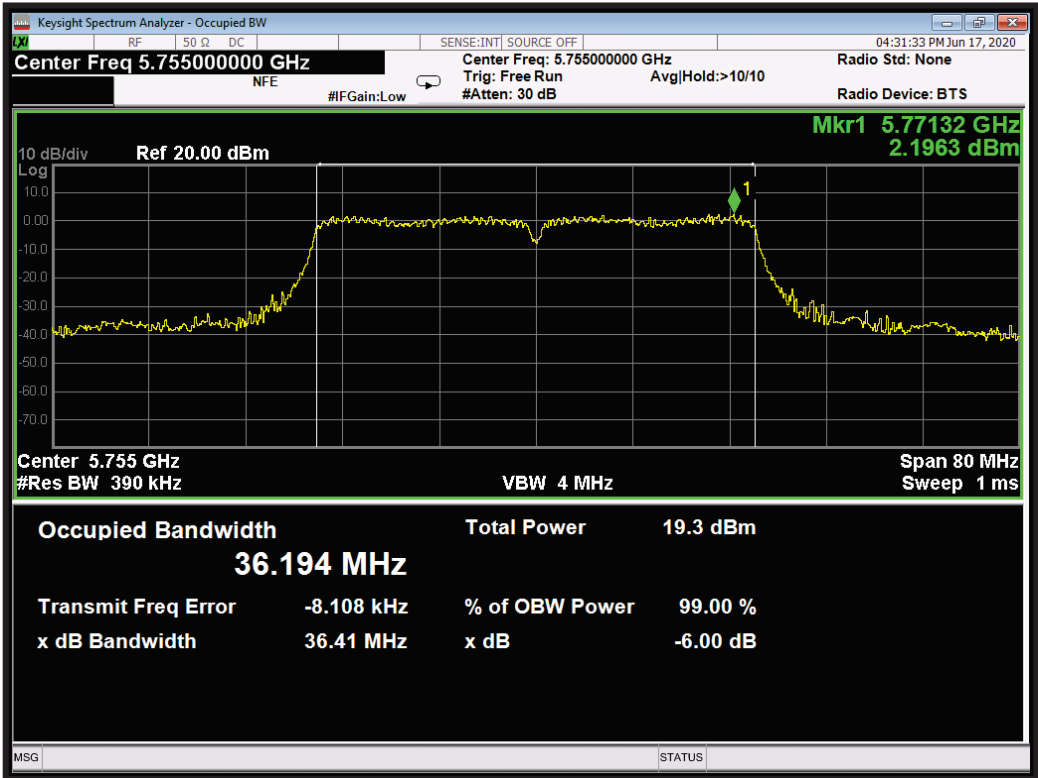
| Modulation: 802.11ac-40; Data rate: MCS9 1SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                       | 36.41               | 36.220              | PASS   |
| 5795                                                       | 36.47               | 36.240              | PASS   |



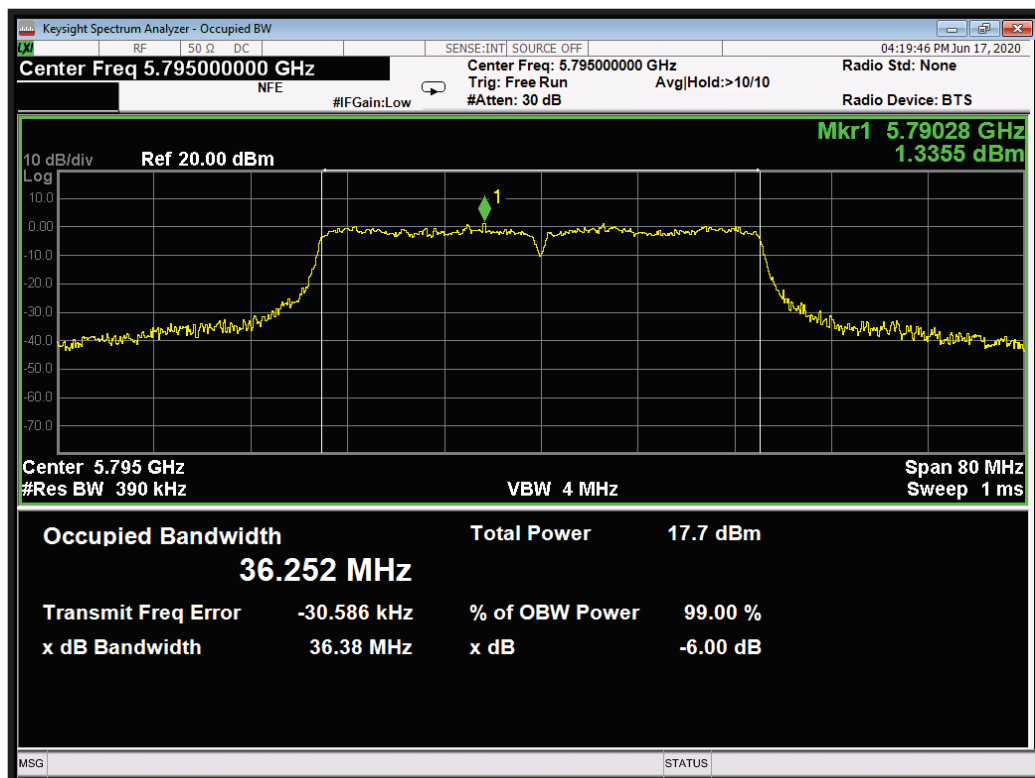
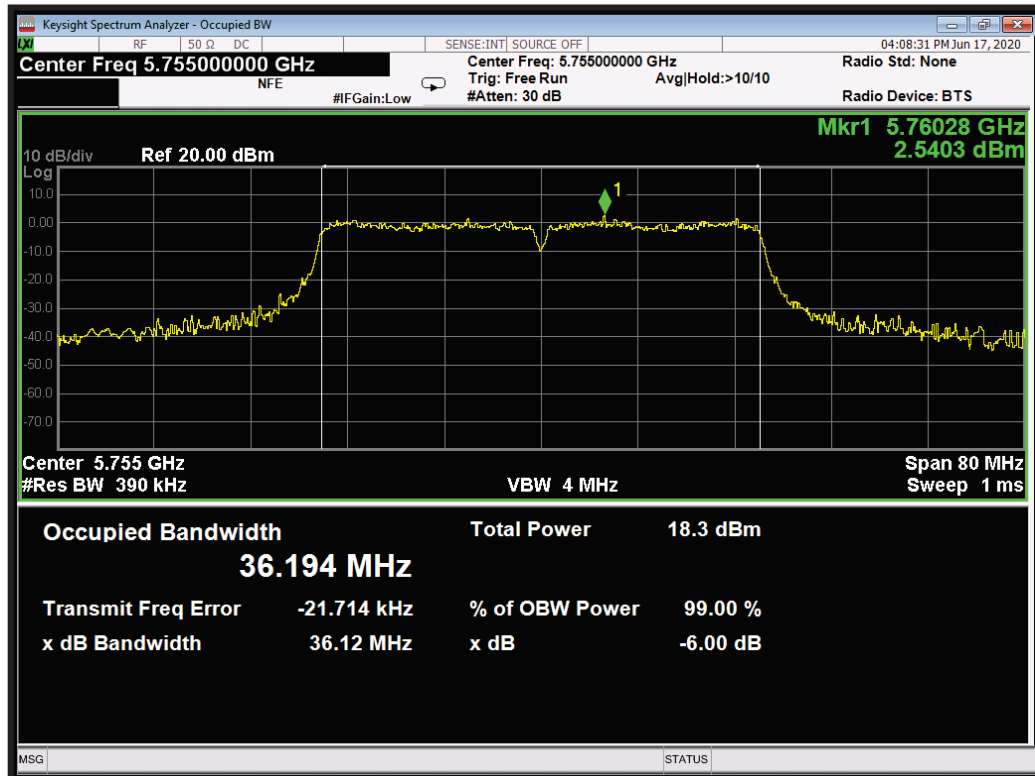
| Modulation: 802.11ac-40; Data rate: MCS0 2SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                        | 36.39               | 36.194              | PASS   |
| 5795                                                        | 36.36               | 36.215              | PASS   |



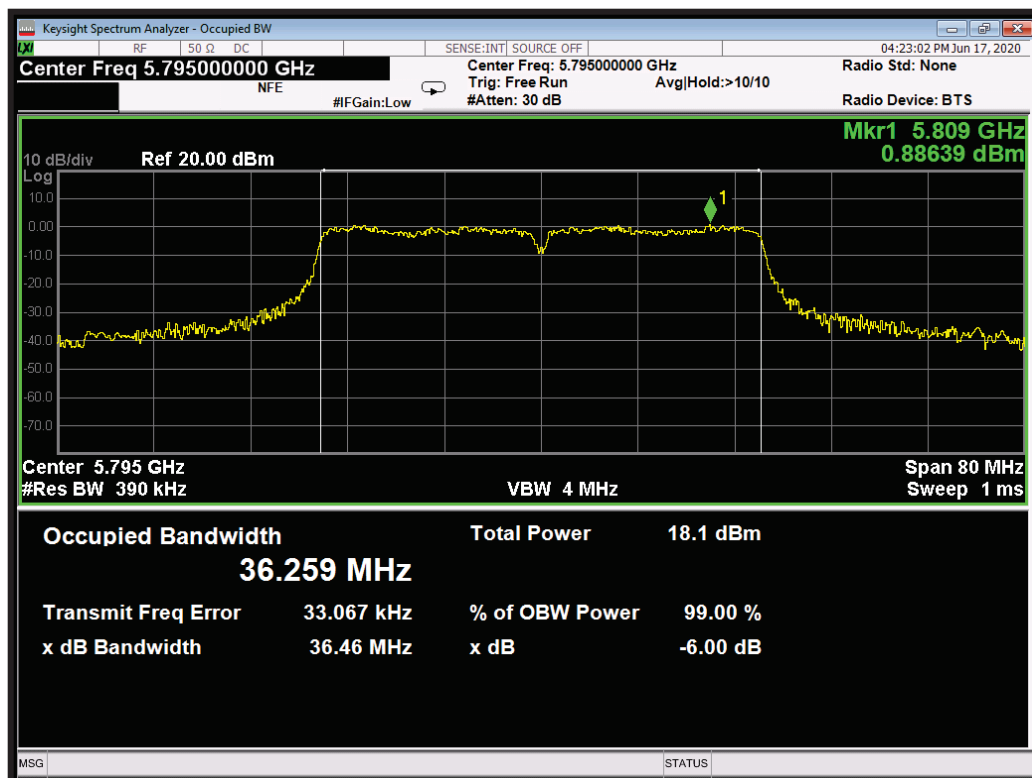
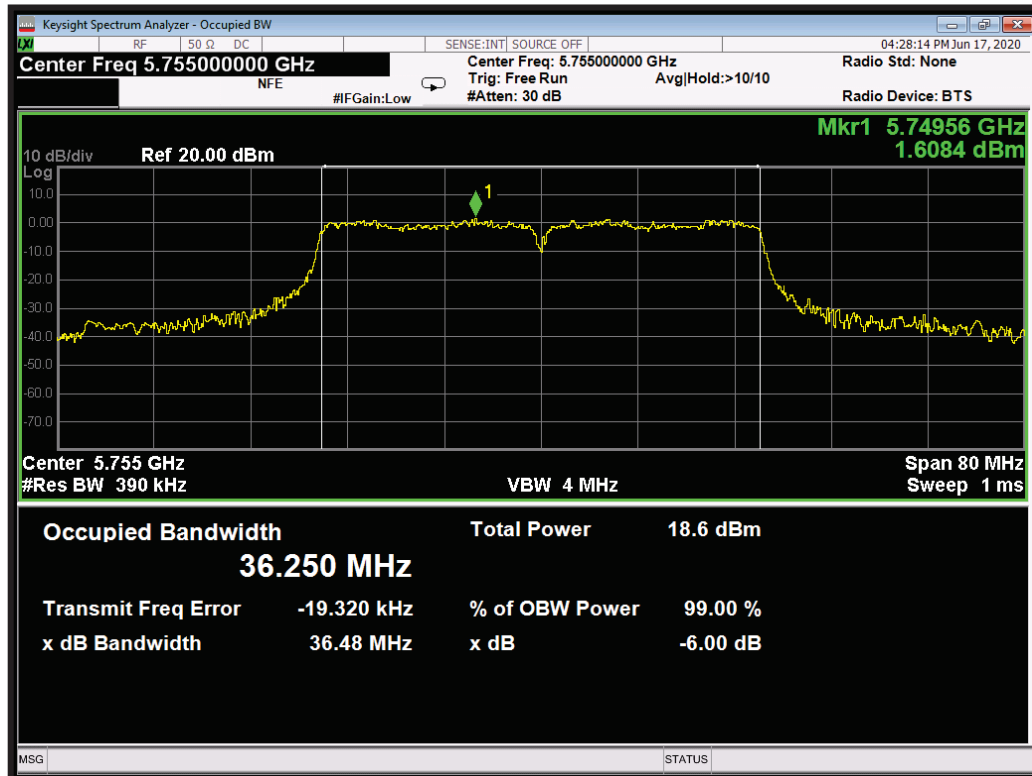
| Modulation: 802.11ac-40; Data rate: MCS0 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                       | 36.41               | 36.194              | PASS   |
| 5795                                                       | 36.43               | 36.216              | PASS   |



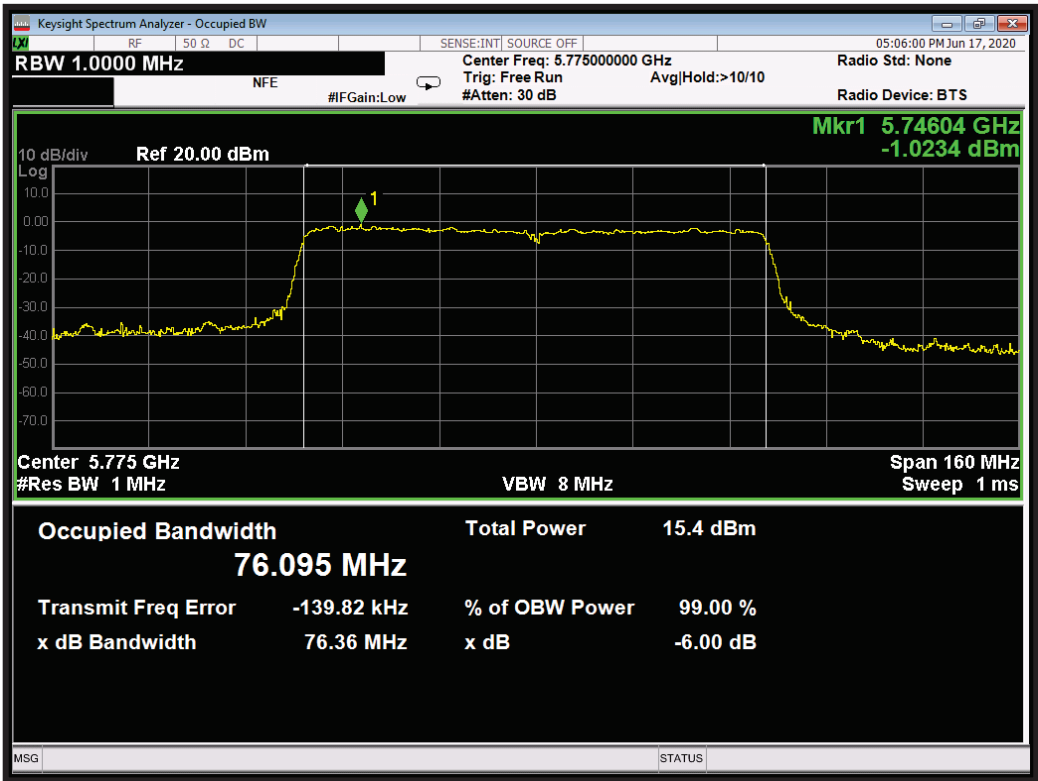
| Modulation: 802.11ac-40; Data rate: MCS9 2SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                        | 36.12               | 36.194              | PASS   |
| 5795                                                        | 36.38               | 36.252              | PASS   |



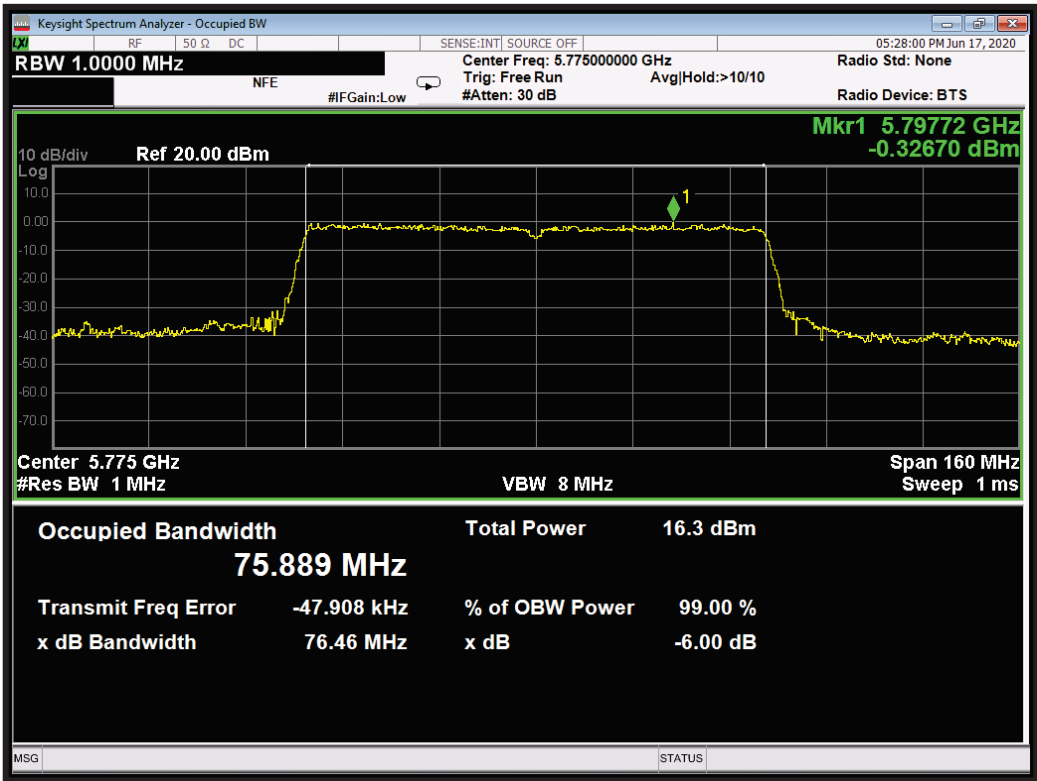
| Modulation: 802.11ac-40; Data rate: MCS9 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5755                                                       | 36.48               | 36.250              | PASS   |
| 5795                                                       | 36.46               | 36.529              | PASS   |



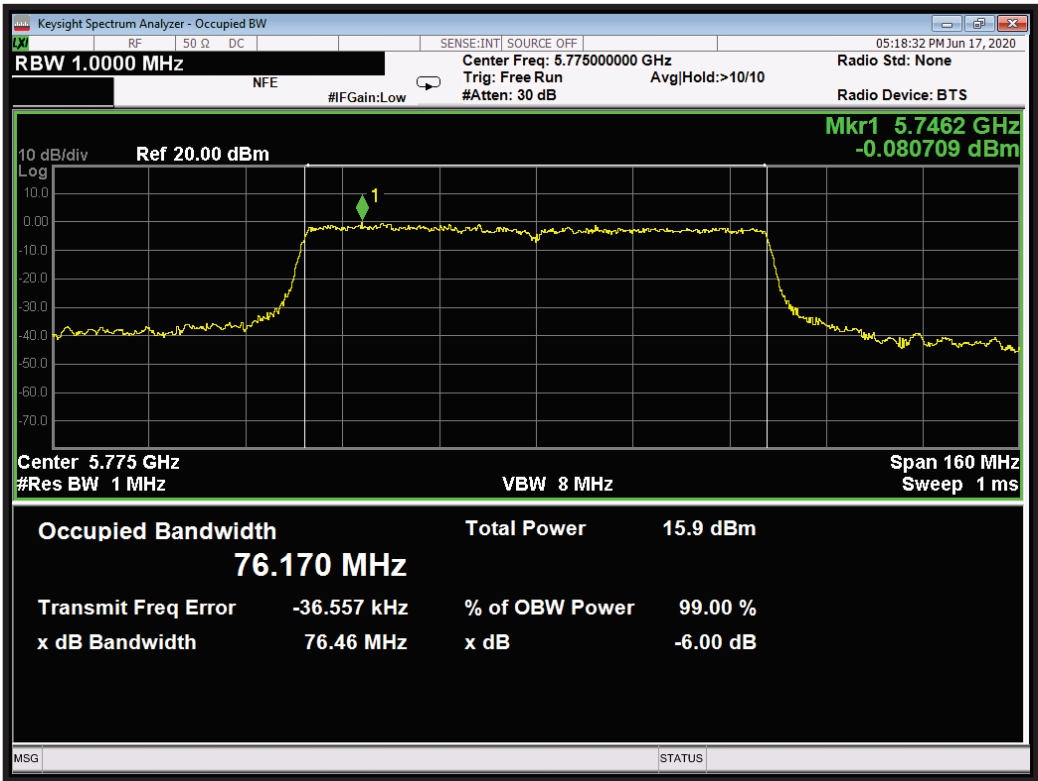
| Modulation: 802.11ac-80; Data rate: MCS0 1SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                        | 76.36               | 76.095              | PASS   |



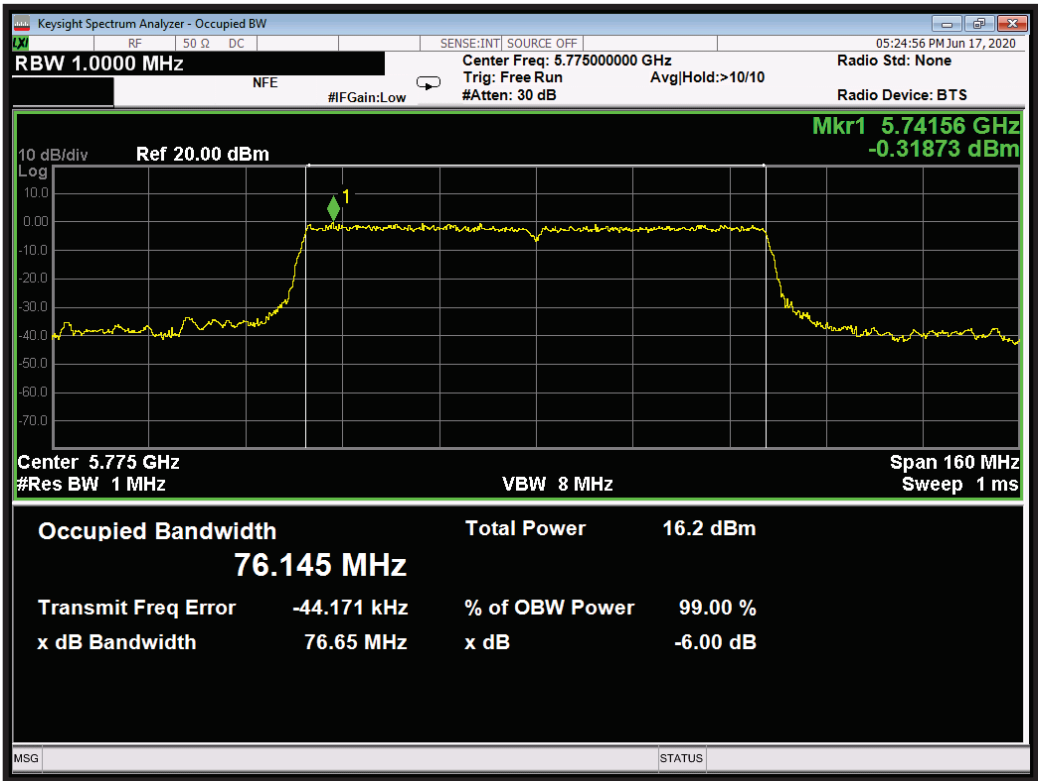
| Modulation: 802.11ac-80; Data rate: MCS0 1SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                       | 76.46               | 75.889              | PASS   |



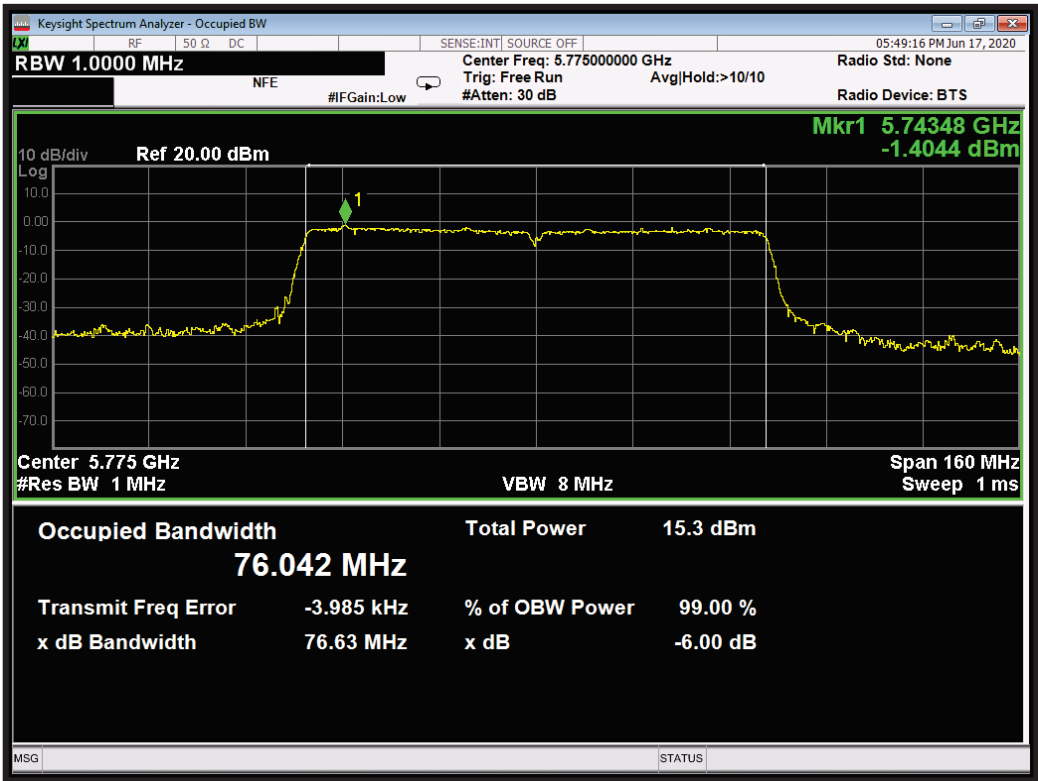
| Modulation: 802.11ac-80; Data rate: MCS9 1SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                        | 76.46               | 76.170              | PASS   |



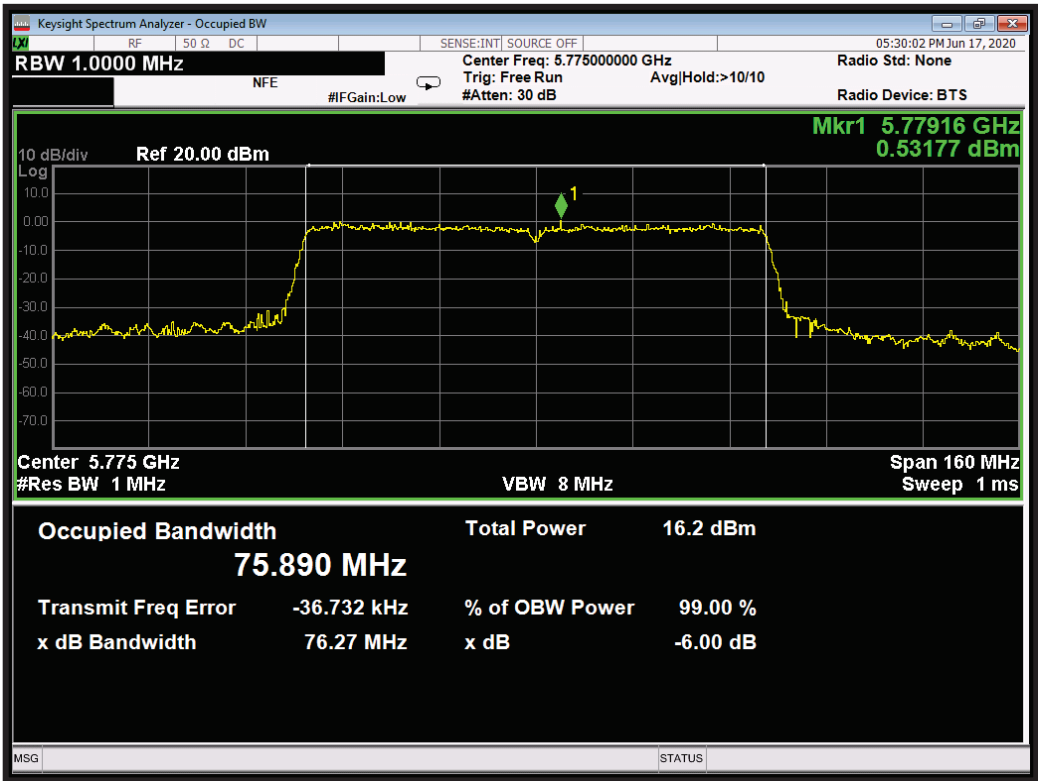
| Modulation: 802.11ac-80; Data rate: MCS9 1SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                       | 76.65               | 76.145              | PASS   |



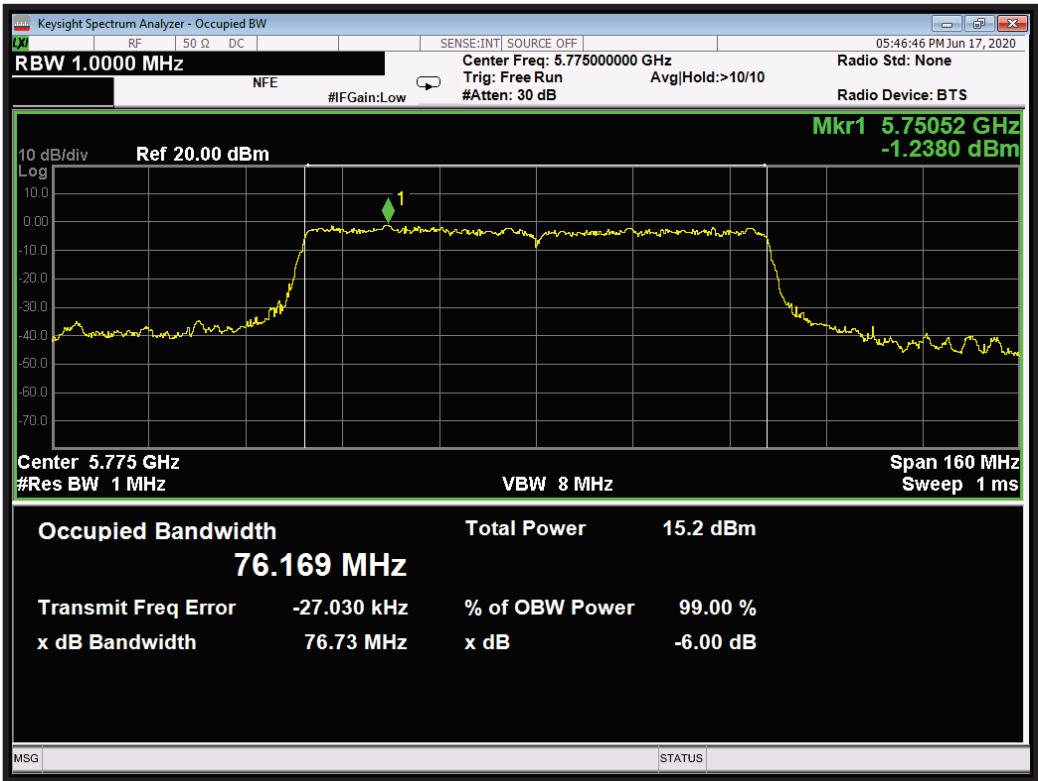
| Modulation: 802.11ac-80; Data rate: MCS0 2SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                        | 76.63               | 76.042              | PASS   |



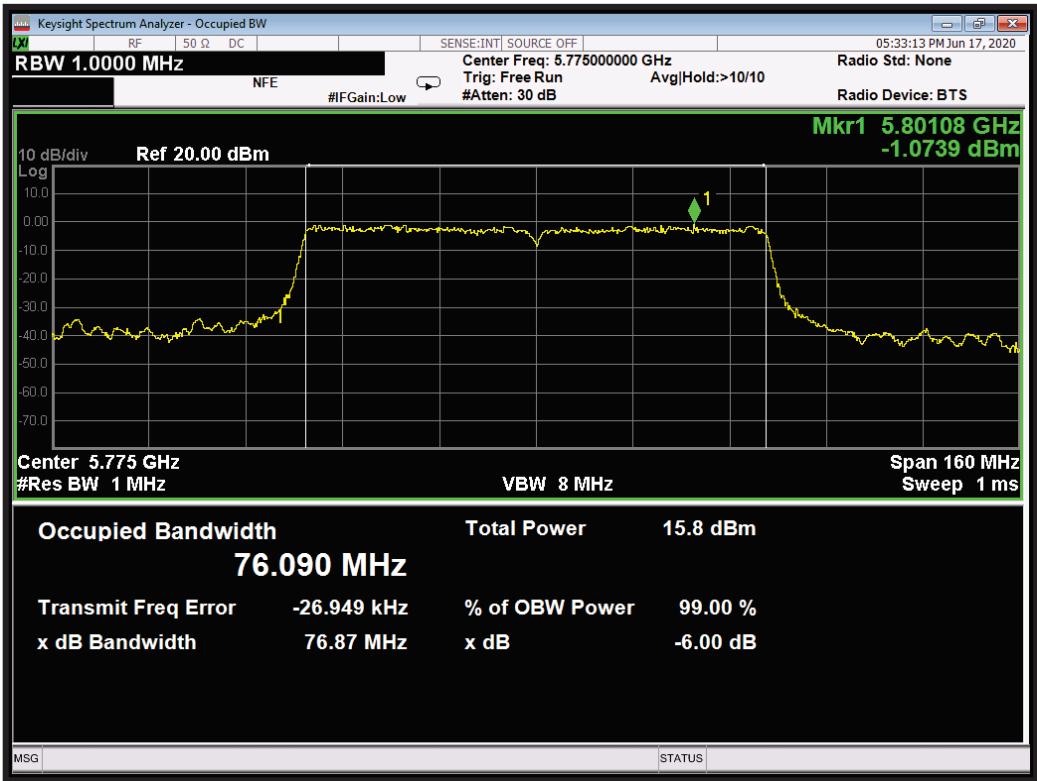
| Modulation: 802.11ac-80; Data rate: MCS0 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                       | 76.27               | 75.890              | PASS   |



| Modulation: 802.11ac-80; Data rate: MCS9 2SS; Main Antenna; |                     |                     |        |
|-------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                     | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                        | 76.73               | 76.169              | PASS   |



| Modulation: 802.11ac-80; Data rate: MCS9 2SS; Aux Antenna; |                     |                     |        |
|------------------------------------------------------------|---------------------|---------------------|--------|
| Channel Frequency (MHz)                                    | 6dB bandwidth (MHz) | 99% bandwidth (MHz) | Result |
| 5775                                                       | 76.87               | 76.090              | PASS   |



## 14 Maximum conducted output power

### 14.1 Definition

The maximum conducted output power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

### 14.2 Test Parameters

|                           |                               |
|---------------------------|-------------------------------|
| Test Location:            | Element Hull                  |
| Test Chamber:             | Wireless Laboratory 1         |
| Test Standard and Clause: | ANSI C63.10-2013, Clause 12.3 |
| EUT Occupied Bandwidths:  | 20 MHz, 40 MHz & 80 MHz       |
| Deviations From Standard: | None                          |
| Measurement BW:           | Wideband power meter used     |
| Measurement Span:         | Wideband power meter used     |
| Measurement Points:       | Wideband power meter used     |
| Measurement Detector:     | RMS                           |

### Environmental Conditions (Normal Environment)

|                    |                                |
|--------------------|--------------------------------|
| Temperature: 23 °C | +15 °C to +35 °C (as declared) |
| Humidity: 43 %RH   | 20%RH to 75%RH (as declared)   |

### Test Limits

For the 5.725–5.85 GHz band, the maximum conducted output power over the frequency bands of operation shall not exceed 1 W (30 dBm).

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

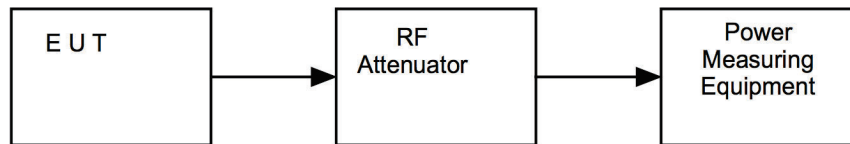
|                               |        |
|-------------------------------|--------|
| Number of antennas            | 2      |
| Correlated signals            | No     |
| Maximum gain (dBi)            | 6.9    |
| Exceeds 6 dBi by (dB)         | 0.9    |
| Spec. limit (dBm)             | 30.0   |
| Minimum 26 dB bandwidth (MHz) | 20 MHz |
| Adjusted limit (dBm)          | 29.1   |

### 14.3 Test Method

With The EUT was connected as per Figure iv, the power was measured on the power meter, having taken account of all path losses.

The measurements were performed with EUT set at its maximum duty. All modulation schemes, data rates and power settings were used to observe the worst case configuration in each bandwidth.

**Figure iv Test Setup**



### 14.4 Test Equipment

| <i>Equipment Description</i> | <i>Manufacturer</i> | <i>Equipment Type</i> | <i>Element No</i> | <i>Due For Calibration</i> |
|------------------------------|---------------------|-----------------------|-------------------|----------------------------|
| Power Meter                  | ETS Lindgren        | 7002-006              | REF2279           | 2022-03-18                 |
| Power Meter                  | ETS Lindgren        | 7002-006              | REF2324           | 2022-01-29                 |
| Power Supply                 | Farnell             | LT30-2                | RFG035            | Cal with REF887            |
| Multimeter                   | Agilent             | 34405A                | REF887            | 2021-10-12                 |

### 14.5 Test Results

| <i>Modulation: 802.11a; Main and Aux ports measured simultaneously; Channel Bandwidth: 20 MHz</i> |                      |                          |                             |                    |               |
|---------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <i>Data Rate (Mbps)</i>                                                                           | <i>Channel (MHz)</i> | <i>EUT power setting</i> | <i>Measured level (dBm)</i> | <i>Limit (dBm)</i> | <i>Result</i> |
| 6                                                                                                 | 5745                 | 15                       | 18.7                        | 29.1               | Pass          |
| 6                                                                                                 | 5785                 | 15                       | 18.4                        | 29.1               | Pass          |
| 6                                                                                                 | 5825                 | 15                       | 18.2                        | 29.1               | Pass          |
| 54                                                                                                | 5745                 | 15                       | 18.8                        | 29.1               | Pass          |
| 54                                                                                                | 5785                 | 15                       | 18.5                        | 29.1               | Pass          |
| 54                                                                                                | 5825                 | 15                       | 18.2                        | 29.1               | Pass          |

| <i>Modulation: 802.11ac; Main and Aux ports measured simultaneously; Channel Bandwidth: 20 MHz; Spatial Streams: 1</i> |                      |                          |                             |                    |               |
|------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <i>Data Rate (MCS)</i>                                                                                                 | <i>Channel (MHz)</i> | <i>EUT power setting</i> | <i>Measured level (dBm)</i> | <i>Limit (dBm)</i> | <i>Result</i> |
| 0                                                                                                                      | 5745                 | 13                       | 16.9                        | 29.1               | Pass          |
| 0                                                                                                                      | 5785                 | 13                       | 16.6                        | 29.1               | Pass          |
| 0                                                                                                                      | 5825                 | 13                       | 16.4                        | 29.1               | Pass          |
| 8                                                                                                                      | 5745                 | 13                       | 16.9                        | 29.1               | Pass          |
| 8                                                                                                                      | 5785                 | 13                       | 16.6                        | 29.1               | Pass          |
| 8                                                                                                                      | 5825                 | 13                       | 16.4                        | 29.1               | Pass          |

| <b>Modulation: 802.11ac; Main and Aux ports measured simultaneously;<br/>Channel Bandwidth: 20 MHz; Spatial Streams: 2</b> |                      |                          |                             |                    |               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                                                     | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                                          | 5745                 | 13                       | 16.9                        | 29.1               | Pass          |
| 0                                                                                                                          | 5785                 | 13                       | 16.6                        | 29.1               | Pass          |
| 0                                                                                                                          | 5825                 | 13                       | 16.3                        | 29.1               | Pass          |
| 8                                                                                                                          | 5745                 | 13                       | 16.9                        | 29.1               | Pass          |
| 8                                                                                                                          | 5785                 | 13                       | 16.6                        | 29.1               | Pass          |
| 8                                                                                                                          | 5825                 | 13                       | 16.3                        | 29.1               | Pass          |

| <b>Modulation: 802.11ac; Main and Aux ports measured simultaneously;<br/>Channel Bandwidth: 40 MHz; Spatial Streams: 1</b> |                      |                          |                             |                    |               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                                                     | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                                          | 5755                 | 12                       | 15.7                        | 29.1               | Pass          |
| 0                                                                                                                          | 5795                 | 12                       | 15.4                        | 29.1               | Pass          |
| 9                                                                                                                          | 5755                 | 12                       | 15.8                        | 29.1               | Pass          |
| 9                                                                                                                          | 5795                 | 12                       | 15.5                        | 29.1               | Pass          |

| <b>Modulation: 802.11ac; Main and Aux ports measured simultaneously;<br/>Channel Bandwidth: 40 MHz; Spatial Streams: 2</b> |                      |                          |                             |                    |               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                                                     | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                                          | 5755                 | 12                       | 15.7                        | 29.1               | Pass          |
| 0                                                                                                                          | 5795                 | 12                       | 15.4                        | 29.1               | Pass          |
| 9                                                                                                                          | 5755                 | 12                       | 15.8                        | 29.1               | Pass          |
| 9                                                                                                                          | 5795                 | 12                       | 15.5                        | 29.1               | Pass          |

| <b>Modulation: 802.11ac; Main and Aux ports measured simultaneously;<br/>Channel Bandwidth: 80 MHz; Spatial Streams: 1</b> |                      |                          |                             |                    |               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                                                     | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                                          | 5775                 | 8                        | 12.0                        | 29.1               | Pass          |
| 9                                                                                                                          | 5775                 | 8                        | 12.2                        | 29.1               | Pass          |

| <b>Modulation: 802.11ac; Main and Aux ports measured simultaneously;<br/>Channel Bandwidth: 80 MHz; Spatial Streams: 2</b> |                      |                          |                             |                    |               |
|----------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                                                     | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                                          | 5775                 | 8                        | 12.0                        | 29.1               | Pass          |
| 9                                                                                                                          | 5775                 | 8                        | 12.2                        | 29.1               | Pass          |

Measurements in 802.11n mode were only performed for channel and operating mode combinations where the EUT power setting was different from that used for 802.11ac mode. These additional measurements are presented in the tables below:

| <b>Modulation: 802.11n; Main and Aux ports measured simultaneously; Channel Bandwidth: 20 MHz</b> |                      |                          |                             |                    |               |
|---------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                            | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                 | 5745                 | 15                       | 18.9                        | 29.1               | Pass          |
| 0                                                                                                 | 5785                 | 15                       | 18.6                        | 29.1               | Pass          |
| 0                                                                                                 | 5825                 | 15                       | 18.3                        | 29.1               | Pass          |

| <b>Modulation: 802.11n; Main and Aux ports measured simultaneously; Channel Bandwidth: 40 MHz</b> |                      |                          |                             |                    |               |
|---------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------------|--------------------|---------------|
| <b>Data Rate (MCS)</b>                                                                            | <b>Channel (MHz)</b> | <b>EUT power setting</b> | <b>Measured level (dBm)</b> | <b>Limit (dBm)</b> | <b>Result</b> |
| 0                                                                                                 | 5755                 | 14                       | 17.7                        | 29.1               | Pass          |
| 0                                                                                                 | 5795                 | 14                       | 17.4                        | 29.1               | Pass          |

## 15 Power spectral density

### 15.1 Definition

The power spectral density is the total energy output per unit bandwidth from a pulse or sequence of pulses for which the transmit power is at its maximum level, divided by the total duration of the pulses.

### 15.2 Test Parameters

|                             |                               |
|-----------------------------|-------------------------------|
| Test Location:              | Element Hull                  |
| Test Chamber:               | Wireless Laboratory 1         |
| Test Standard and Clause:   | ANSI C63.10-2013, Clause 12.5 |
| EUT Channel Bandwidths:     | 20 MHz, 40 MHz & 80 MHz       |
| Deviations From Standard:   | None                          |
| Measurement BW:             | 1 MHz                         |
| Spectrum Analyzer Video BW: | 3 MHz                         |
| Measurement Span:           | 30 MHz, 60 MHz & 90 MHz       |
| Measurement Detector:       | RMS                           |

### Environmental Conditions (Normal Environment)

|                    |                                |
|--------------------|--------------------------------|
| Temperature: 21 °C | +15 °C to +35 °C (as declared) |
| Humidity: 42 %RH   | 20%RH to 75%RH (as declared)   |

### Test Limits

For the 5.725–5.85 GHz band, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

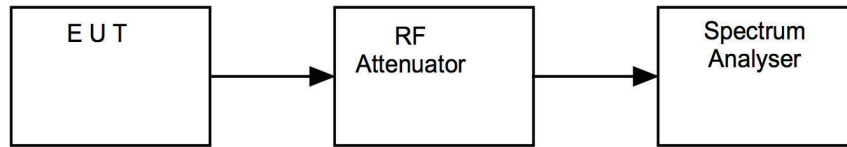
|                              |      |
|------------------------------|------|
| Number of antennas           | 2    |
| Correlated signals           | No   |
| Maximum Gain (dBi)           | 6.9  |
| Exceeds 6 dBi by (dB)        | 0.9  |
| Spec. limit (dBm/500 kHz)    | 30   |
| Adjusted limit (dBm/500 kHz) | 29.1 |

### 15.3 Test Method

With the EUT connected as per Figure v, the peak emission of the EUT was measured on a spectrum analyser, with path losses taken into account.

The measurements were performed with EUT set at its maximum duty. All modulation schemes, data rates and power settings were used to observe the worst case configuration in each bandwidth.

**Figure v Test Setup**



### 15.4 Test Equipment

| <i>Equipment Description</i> | <i>Manufacturer</i> | <i>Equipment Type</i> | <i>Element No</i> | <i>Due For Calibration</i> |
|------------------------------|---------------------|-----------------------|-------------------|----------------------------|
| Spectrum Analyser            | Agilent             | N9030A                | REF2167           | 2021-08-19                 |
| Power Supply                 | Farnell             | LT30-2                | RFG035            | Cal with REF887            |
| Multimeter                   | Agilent             | 34405A                | REF887            | 2021-10-12                 |

### 15.5 Test Results

| <i>Modulation: 802.11a; Main and Aux ports measured separately and combined;<br/>Channel Bandwidth: 20 MHz</i> |                      |                          |                                          |                                         |                                   |                            |               |
|----------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------------------------------|-----------------------------------------|-----------------------------------|----------------------------|---------------|
| <i>Data Rate (Mbps)</i>                                                                                        | <i>Channel (MHz)</i> | <i>EUT power setting</i> | <i>Measured level Main (dBm/500 kHz)</i> | <i>Measured level Aux (dBm/500 kHz)</i> | <i>Combined PSD (dBm/500 kHz)</i> | <i>Limit (dBm/500 kHz)</i> | <i>Result</i> |
| 6                                                                                                              | 5745                 | 15                       | 1.9                                      | 2.2                                     | 5.1                               | 29.1                       | Pass          |
| 6                                                                                                              | 5785                 | 15                       | 1.0                                      | 2.3                                     | 4.7                               | 29.1                       | Pass          |
| 6                                                                                                              | 5825                 | 15                       | 1.2                                      | 2.1                                     | 4.7                               | 29.1                       | Pass          |
| 54                                                                                                             | 5745                 | 15                       | 1.3                                      | 2.2                                     | 4.8                               | 29.1                       | Pass          |
| 54                                                                                                             | 5785                 | 15                       | 0.9                                      | 2.3                                     | 4.7                               | 29.1                       | Pass          |
| 54                                                                                                             | 5825                 | 15                       | 0.6                                      | 2.0                                     | 4.4                               | 29.1                       | Pass          |

| <i>Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br/>Channel Bandwidth: 20 MHz; Spatial Streams: 1</i> |                      |                          |                                          |                                         |                                   |                            |               |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|------------------------------------------|-----------------------------------------|-----------------------------------|----------------------------|---------------|
| <i>Data Rate (MCS)</i>                                                                                                              | <i>Channel (MHz)</i> | <i>EUT power setting</i> | <i>Measured level Main (dBm/500 kHz)</i> | <i>Measured level Aux (dBm/500 kHz)</i> | <i>Combined PSD (dBm/500 kHz)</i> | <i>Limit (dBm/500 kHz)</i> | <i>Result</i> |
| 0                                                                                                                                   | 5745                 | 13                       | -0.7                                     | 0.0                                     | 2.7                               | 29.1                       | Pass          |
| 0                                                                                                                                   | 5785                 | 13                       | -0.4                                     | -0.2                                    | 2.7                               | 29.1                       | Pass          |
| 0                                                                                                                                   | 5825                 | 13                       | -0.9                                     | -0.4                                    | 2.4                               | 29.1                       | Pass          |
| 8                                                                                                                                   | 5745                 | 13                       | -0.6                                     | -0.1                                    | 2.7                               | 29.1                       | Pass          |
| 8                                                                                                                                   | 5785                 | 13                       | -1.0                                     | -0.1                                    | 2.5                               | 29.1                       | Pass          |
| 8                                                                                                                                   | 5825                 | 13                       | -0.7                                     | -0.2                                    | 2.6                               | 29.1                       | Pass          |

| Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br>Channel Bandwidth: 20 MHz; Spatial Streams: 2 |               |                   |                                   |                                  |                            |                     |        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-----------------------------------|----------------------------------|----------------------------|---------------------|--------|
| Data Rate (MCS)                                                                                                             | Channel (MHz) | EUT power setting | Measured level Main (dBm/500 kHz) | Measured level Aux (dBm/500 kHz) | Combined PSD (dBm/500 kHz) | Limit (dBm/500 kHz) | Result |
| 0                                                                                                                           | 5745          | 13                | -0.4                              | 0.0                              | 2.8                        | 29.1                | Pass   |
| 0                                                                                                                           | 5785          | 13                | -0.7                              | -0.1                             | 2.6                        | 29.1                | Pass   |
| 0                                                                                                                           | 5825          | 13                | -1.2                              | -0.3                             | 2.3                        | 29.1                | Pass   |
| 8                                                                                                                           | 5745          | 13                | -0.4                              | 0.2                              | 2.9                        | 29.1                | Pass   |
| 8                                                                                                                           | 5785          | 13                | -0.8                              | 0.1                              | 2.7                        | 29.1                | Pass   |
| 8                                                                                                                           | 5825          | 13                | -1.3                              | -0.2                             | 2.3                        | 29.1                | Pass   |

| Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br>Channel Bandwidth: 40 MHz; Spatial Streams: 1 |               |                   |                                   |                                  |                            |                     |        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-----------------------------------|----------------------------------|----------------------------|---------------------|--------|
| Data Rate (MCS)                                                                                                             | Channel (MHz) | EUT power setting | Measured level Main (dBm/500 kHz) | Measured level Aux (dBm/500 kHz) | Combined PSD (dBm/500 kHz) | Limit (dBm/500 kHz) | Result |
| 0                                                                                                                           | 5755          | 12                | -4.3                              | -4.0                             | -1.1                       | 29.1                | Pass   |
| 0                                                                                                                           | 5795          | 12                | -4.7                              | -4.2                             | -1.4                       | 29.1                | Pass   |
| 9                                                                                                                           | 5755          | 12                | -4.0                              | -4.0                             | -1.0                       | 29.1                | Pass   |
| 9                                                                                                                           | 5795          | 12                | -4.8                              | -4.1                             | -1.4                       | 29.1                | Pass   |

| Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br>Channel Bandwidth: 40 MHz; Spatial Streams: 2 |               |                   |                                   |                                  |                            |                     |        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-----------------------------------|----------------------------------|----------------------------|---------------------|--------|
| Data Rate (MCS)                                                                                                             | Channel (MHz) | EUT power setting | Measured level Main (dBm/500 kHz) | Measured level Aux (dBm/500 kHz) | Combined PSD (dBm/500 kHz) | Limit (dBm/500 kHz) | Result |
| 0                                                                                                                           | 5755          | 12                | -4.4                              | -4.0                             | -1.2                       | 29.1                | Pass   |
| 0                                                                                                                           | 5795          | 12                | -4.8                              | -4.2                             | -1.5                       | 29.1                | Pass   |
| 9                                                                                                                           | 5755          | 12                | -4.1                              | -3.5                             | -0.8                       | 29.1                | Pass   |
| 9                                                                                                                           | 5795          | 12                | -4.7                              | -3.9                             | -1.3                       | 29.1                | Pass   |

| Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br>Channel Bandwidth: 80 MHz; Spatial Streams: 1 |               |                   |                                   |                                  |                            |                     |        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-----------------------------------|----------------------------------|----------------------------|---------------------|--------|
| Data Rate (MCS)                                                                                                             | Channel (MHz) | EUT power setting | Measured level Main (dBm/500 kHz) | Measured level Aux (dBm/500 kHz) | Combined PSD (dBm/500 kHz) | Limit (dBm/500 kHz) | Result |
| 0                                                                                                                           | 5775          | 8                 | -11.2                             | -11.1                            | -8.1                       | 29.1                | Pass   |
| 9                                                                                                                           | 5775          | 8                 | -10.5                             | -10.7                            | -7.6                       | 29.1                | Pass   |

| Modulation: 802.11ac; Main and Aux ports measured separately and combined;<br>Channel Bandwidth: 80 MHz; Spatial Streams: 2 |               |                   |                                   |                                  |                            |                     |        |
|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-----------------------------------|----------------------------------|----------------------------|---------------------|--------|
| Data Rate (MCS)                                                                                                             | Channel (MHz) | EUT power setting | Measured level Main (dBm/500 kHz) | Measured level Aux (dBm/500 kHz) | Combined PSD (dBm/500 kHz) | Limit (dBm/500 kHz) | Result |
| 0                                                                                                                           | 5775          | 8                 | -11.4                             | -10.9                            | -8.1                       | 29.1                | Pass   |
| 9                                                                                                                           | 5775          | 8                 | -11.0                             | -10.3                            | -7.6                       | 29.1                | Pass   |

Measurements in 802.11n mode were only performed for channel and operating mode combinations where the EUT power setting was different from that used for 802.11ac mode. These additional measurements are presented in the tables below:

| <b>Modulation: 802.11n; Main and Aux ports measured separately and combined;<br/>Channel Bandwidth: 20 MHz</b> |                          |                                  |                                                      |                                                     |                                               |                                    |               |
|----------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|------------------------------------|---------------|
| <b>Data Rate<br/>(MCS)</b>                                                                                     | <b>Channel<br/>(MHz)</b> | <b>EUT<br/>power<br/>setting</b> | <b>Measured<br/>level Main<br/>(dBm/500<br/>kHz)</b> | <b>Measured<br/>level Aux<br/>(dBm/500<br/>kHz)</b> | <b>Combined<br/>PSD<br/>(dBm/500<br/>kHz)</b> | <b>Limit<br/>(dBm/500<br/>kHz)</b> | <b>Result</b> |
| 0                                                                                                              | 5785                     | 15                               | 0.9                                                  | 1.9                                                 | 4.4                                           | 29.1                               | Pass          |
| 0                                                                                                              | 5825                     | 15                               | 0.5                                                  | 1.7                                                 | 4.2                                           | 29.1                               | Pass          |

| <b>Modulation: 802.11n; Main and Aux ports measured separately and combined;<br/>Channel Bandwidth: 40 MHz</b> |                          |                                  |                                                      |                                                     |                                               |                                    |               |
|----------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|------------------------------------|---------------|
| <b>Data Rate<br/>(MCS)</b>                                                                                     | <b>Channel<br/>(MHz)</b> | <b>EUT<br/>power<br/>setting</b> | <b>Measured<br/>level Main<br/>(dBm/500<br/>kHz)</b> | <b>Measured<br/>level Aux<br/>(dBm/500<br/>kHz)</b> | <b>Combined<br/>PSD<br/>(dBm/500<br/>kHz)</b> | <b>Limit<br/>(dBm/500<br/>kHz)</b> | <b>Result</b> |
| 0                                                                                                              | 5755                     | 14                               | -2.3                                                 | -1.9                                                | 0.9                                           | 29.1                               | Pass          |
| 0                                                                                                              | 5795                     | 14                               | -2.9                                                 | -2.1                                                | 0.5                                           | 29.1                               | Pass          |

## 16 Measurement Uncertainty

### Calculated Measurement Uncertainties

All statements of uncertainty are expanded standard uncertainty using a coverage factor of 1.96 to give a 95% confidence:

#### [1] Radiated spurious emissions

Uncertainty in test result (30 MHz – 1 GHz) = **4.6 dB**

Uncertainty in test result (1 GHz – 18 GHz) = **4.7 dB**

#### [2] AC power line conducted emissions

Uncertainty in test result = **3.4 dB**

#### [3] Occupied bandwidth

Uncertainty in test result = **15.5%**

#### [4] Conducted carrier power

Uncertainty in test result (Power Meter) = **1.08 dB**

#### [5] Conducted / radiated RF power out-of-band

Uncertainty in test result – Up to 8.1 GHz = **3.31 dB**

Uncertainty in test result – 8.1 GHz – 15.3 GHz = **4.43 dB**

Uncertainty in test result (30 MHz – 1 GHz) = **4.6 dB**

Uncertainty in test result (1 GHz – 18 GHz) = **4.7 dB**

#### [6] Power spectral density

Uncertainty in test result (Spectrum Analyser) = **2.48 dB**

#### [7] AC Power Line conducted emissions

Uncertainty in test result (Spectrum Analyser) = **3.42 dB**