Mode: SISO worst

Modulation: 802.11ax HE80 SS1 (OFDM MCS0) – Partial RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 26Ebw (MHz) |
|---|---|---|---|
| 2 | 5210.00000 | 1 | 81.500 |
| 2 | 5775.00000 | 1 | 82.000 |

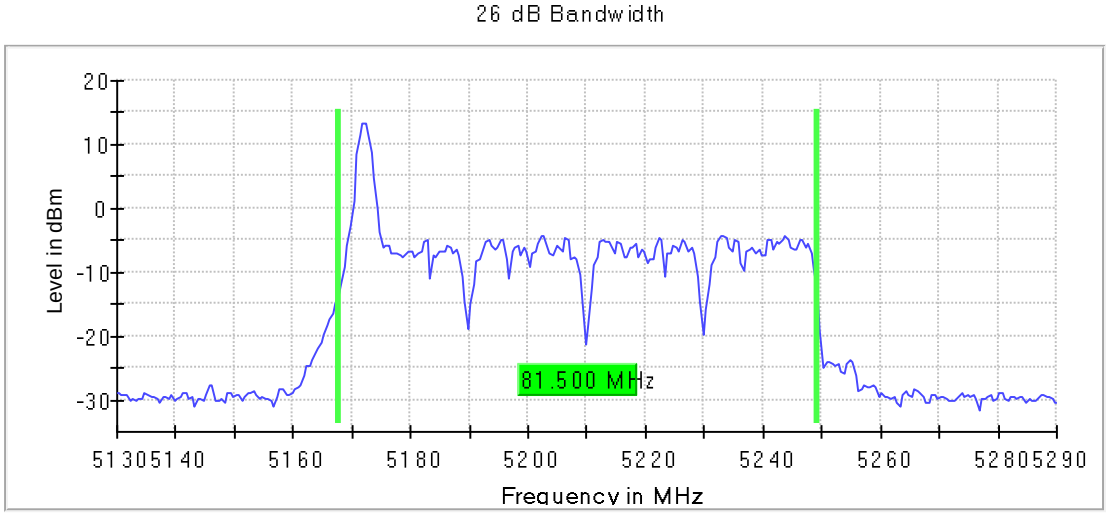
***Verdict***

Pass

***Attachments***

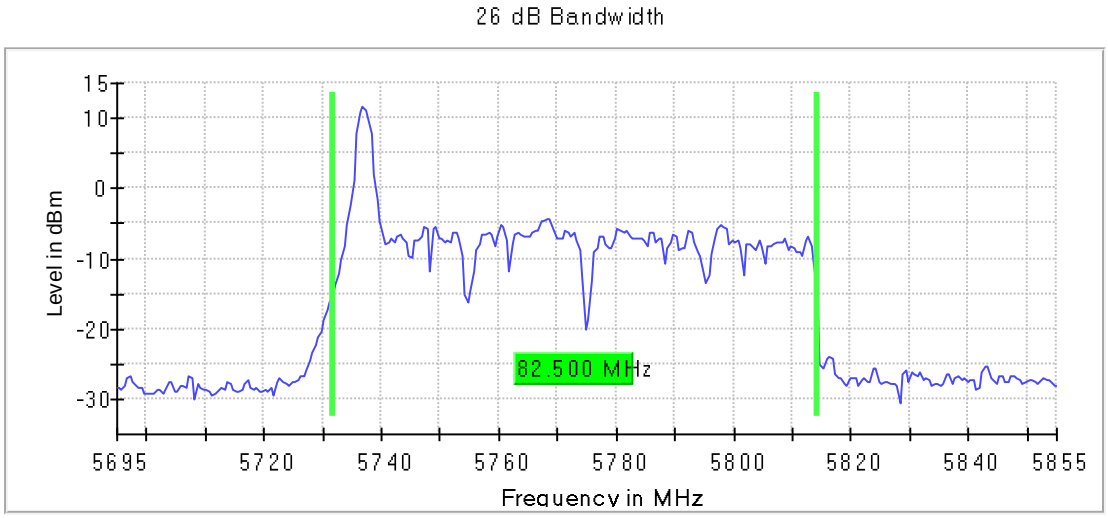
**Active Port = 2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 160.000 MHz | 160.000 MHz |
| RBW | 1.000 MHz | ~ 800.000 kHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 22.875 µs | AUTO |
| Reference Level | 10.000 dBm | 10.000 dBm |
| Attenuation | 30.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 79 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.00 dB | 0.30 dB |

## FCC 15.407 (b) / RSS-247 6.2 Band-edge Conducted Emissions

### Limits

For transmitters operating in the 5.15–5.25 GHz band: all emissions outside of the 5.15–5.35 GHz band shall not exceed an EIRP of –27 dBm/MHz (68.20 dBµV/m at 3 m distance).

For transmitters operating in the 5.725 – 5.850 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band Edge

Mode: SISO worst

Modulation: 802.11a (OFDM 6 Mbit/s)

***Results***

DUT Frequency: 5180 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4984.750000 | -51.5 | 24.5 | -27.0 | PASS |
| 5148.750000 | -51.7 | 24.7 | -27.0 | PASS |
| 4992.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5149.750000 | -52.1 | 25.1 | -27.0 | PASS |
| 4981.750000 | -52.2 | 25.2 | -27.0 | PASS |
| 4989.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 4994.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 4993.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5146.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 4991.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 5148.250000 | -52.6 | 25.6 | -27.0 | PASS |
| 4980.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 5149.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4987.750000 | -52.7 | 25.7 | -27.0 | PASS |
| 4992.750000 | -52.7 | 25.7 | -27.0 | PASS |

DUT Frequency: 5240 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5418.750000 | -56.3 | 29.3 | -27.0 | PASS |
| 5367.250000 | -56.3 | 29.3 | -27.0 | PASS |
| 5447.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5444.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5447.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5366.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5419.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5380.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5430.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5437.250000 | -56.7 | 29.7 | -27.0 | PASS |
| 5440.750000 | -56.7 | 29.7 | -27.0 | PASS |
| 5415.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5389.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5436.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5406.750000 | -57.0 | 30.0 | -27.0 | PASS |

DUT Frequency: 5745 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4984.750000 | -51.5 | 24.5 | -27.0 | PASS |
| 5148.750000 | -51.7 | 24.7 | -27.0 | PASS |
| 4992.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5149.750000 | -52.1 | 25.1 | -27.0 | PASS |
| 4981.750000 | -52.2 | 25.2 | -27.0 | PASS |
| 4989.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 4994.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 4993.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5146.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 4991.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 5148.250000 | -52.6 | 25.6 | -27.0 | PASS |
| 4980.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 5149.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4987.750000 | -52.7 | 25.7 | -27.0 | PASS |
| 4992.750000 | -52.7 | 25.7 | -27.0 | PASS |

DUT Frequency: 5825 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5418.750000 | -56.3 | 29.3 | -27.0 | PASS |
| 5367.250000 | -56.3 | 29.3 | -27.0 | PASS |
| 5447.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5444.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5447.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5366.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5419.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5380.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5430.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5437.250000 | -56.7 | 29.7 | -27.0 | PASS |
| 5440.750000 | -56.7 | 29.7 | -27.0 | PASS |
| 5415.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5389.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5436.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5406.750000 | -57.0 | 30.0 | -27.0 | PASS |

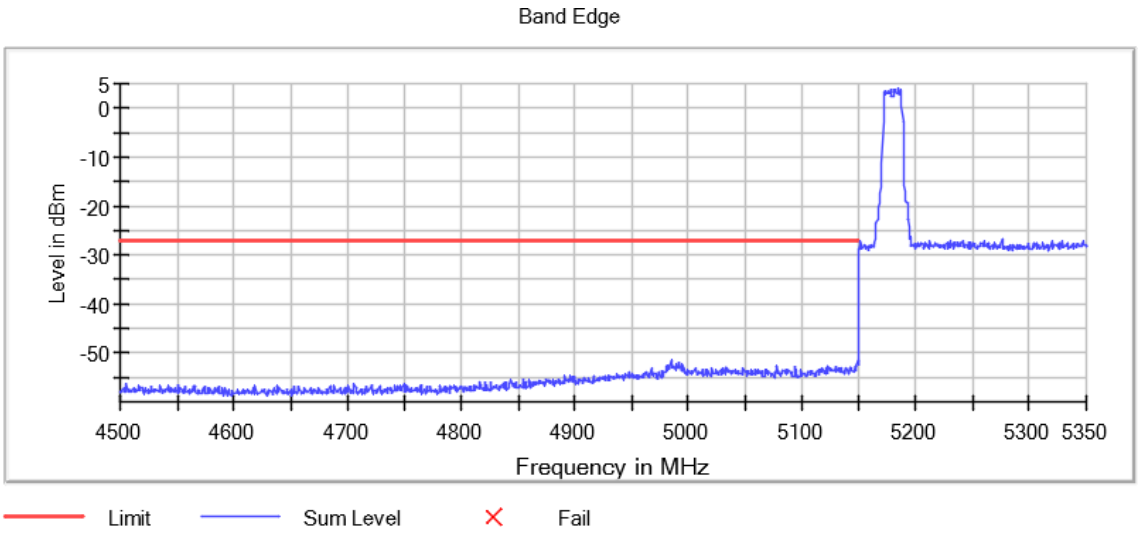
***Verdict***

Pass

***Attachments***

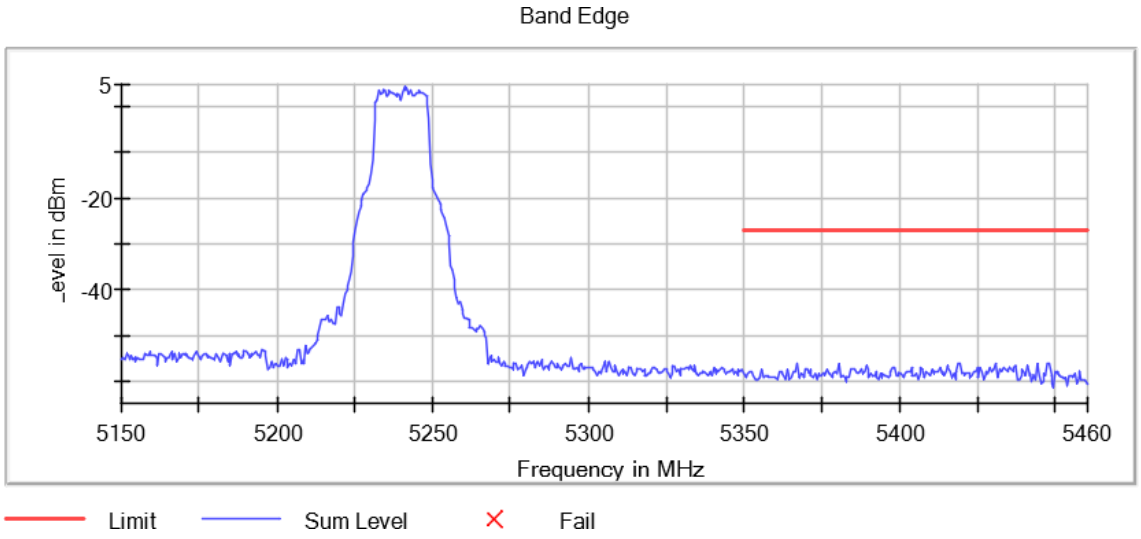
**Active Port = 2, Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



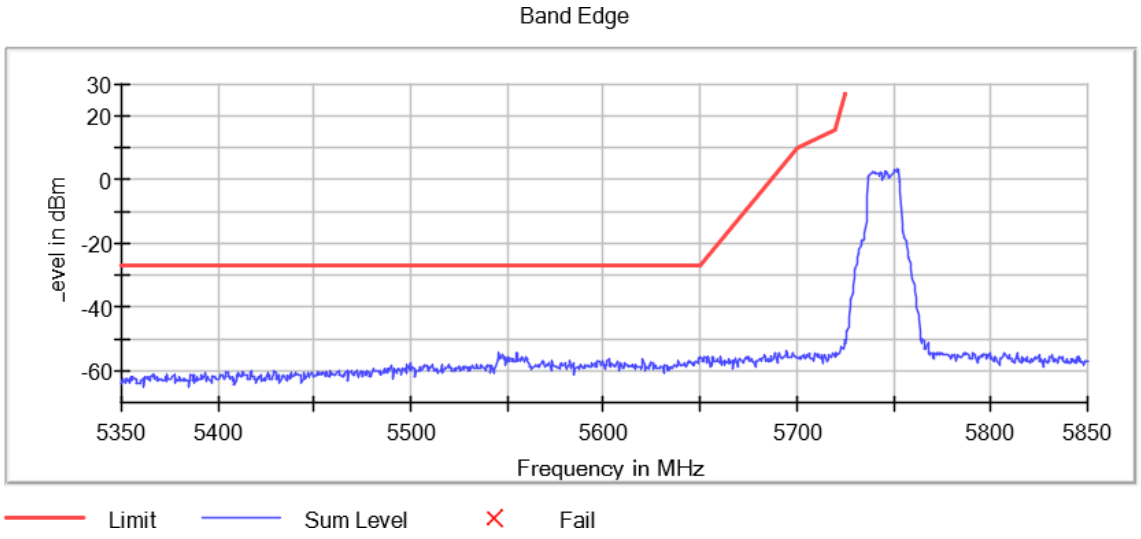
**Active Port = 2, Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

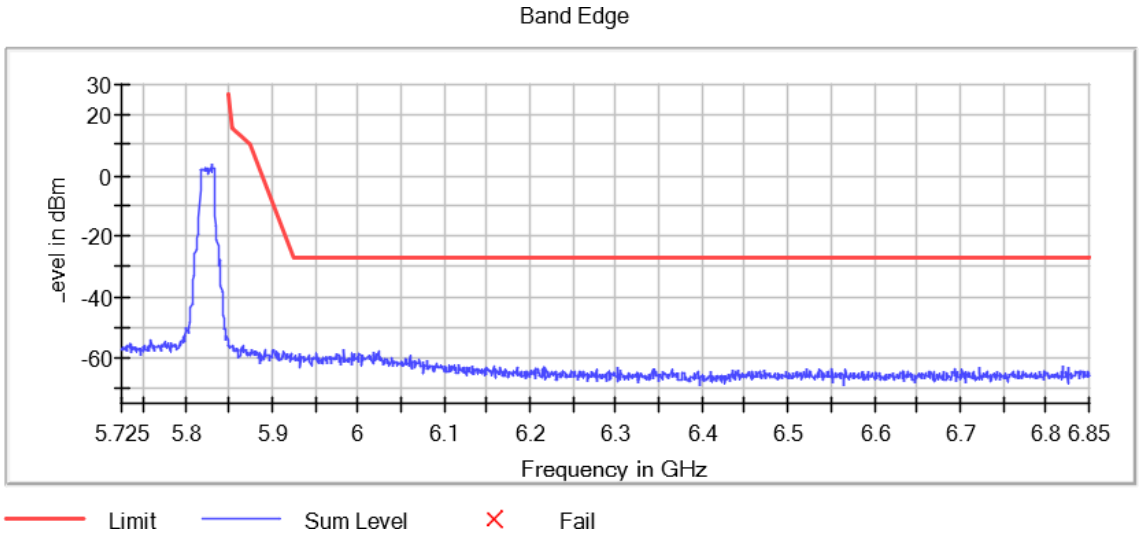



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11n HT20 (OFDM MCS0)

***Results***

DUT Frequency: 5180 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -50.5 | 23.5 | -27.0 | PASS |
| 5148.250000 | -50.6 | 23.6 | -27.0 | PASS |
| 5149.250000 | -50.7 | 23.7 | -27.0 | PASS |
| 5148.750000 | -50.9 | 23.9 | -27.0 | PASS |
| 5147.750000 | -52.1 | 25.1 | -27.0 | PASS |
| 5141.750000 | -52.1 | 25.1 | -27.0 | PASS |
| 5147.250000 | -52.2 | 25.2 | -27.0 | PASS |
| 4988.750000 | -52.3 | 25.3 | -27.0 | PASS |
| 4992.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 4982.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 4985.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 4984.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5135.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 5146.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 4994.750000 | -52.5 | 25.5 | -27.0 | PASS |

DUT Frequency: 5240 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5459.250000 | -66.3 | 39.3 | -27.0 | PASS |
| 5409.750000 | -66.5 | 39.5 | -27.0 | PASS |
| 5410.250000 | -66.6 | 39.6 | -27.0 | PASS |
| 5454.750000 | -66.7 | 39.7 | -27.0 | PASS |
| 5458.750000 | -66.8 | 39.8 | -27.0 | PASS |
| 5383.750000 | -67.2 | 40.2 | -27.0 | PASS |
| 5406.750000 | -67.3 | 40.3 | -27.0 | PASS |
| 5455.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5442.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5402.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5441.250000 | -67.7 | 40.7 | -27.0 | PASS |
| 5457.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5365.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5434.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5453.250000 | -67.9 | 40.9 | -27.0 | PASS |

DUT Frequency: 5745 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5459.250000 | -66.3 | 39.3 | -27.0 | PASS |
| 5409.750000 | -66.5 | 39.5 | -27.0 | PASS |
| 5410.250000 | -66.6 | 39.6 | -27.0 | PASS |
| 5454.750000 | -66.7 | 39.7 | -27.0 | PASS |
| 5458.750000 | -66.8 | 39.8 | -27.0 | PASS |
| 5383.750000 | -67.2 | 40.2 | -27.0 | PASS |
| 5406.750000 | -67.3 | 40.3 | -27.0 | PASS |
| 5455.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5442.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5402.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5441.250000 | -67.7 | 40.7 | -27.0 | PASS |
| 5457.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5365.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5434.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5453.250000 | -67.9 | 40.9 | -27.0 | PASS |

DUT Frequency: 5825 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5459.250000 | -66.3 | 39.3 | -27.0 | PASS |
| 5409.750000 | -66.5 | 39.5 | -27.0 | PASS |
| 5410.250000 | -66.6 | 39.6 | -27.0 | PASS |
| 5454.750000 | -66.7 | 39.7 | -27.0 | PASS |
| 5458.750000 | -66.8 | 39.8 | -27.0 | PASS |
| 5383.750000 | -67.2 | 40.2 | -27.0 | PASS |
| 5406.750000 | -67.3 | 40.3 | -27.0 | PASS |
| 5455.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5442.250000 | -67.4 | 40.4 | -27.0 | PASS |
| 5402.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5441.250000 | -67.7 | 40.7 | -27.0 | PASS |
| 5457.750000 | -67.7 | 40.7 | -27.0 | PASS |
| 5365.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5434.750000 | -67.8 | 40.8 | -27.0 | PASS |
| 5453.250000 | -67.9 | 40.9 | -27.0 | PASS |

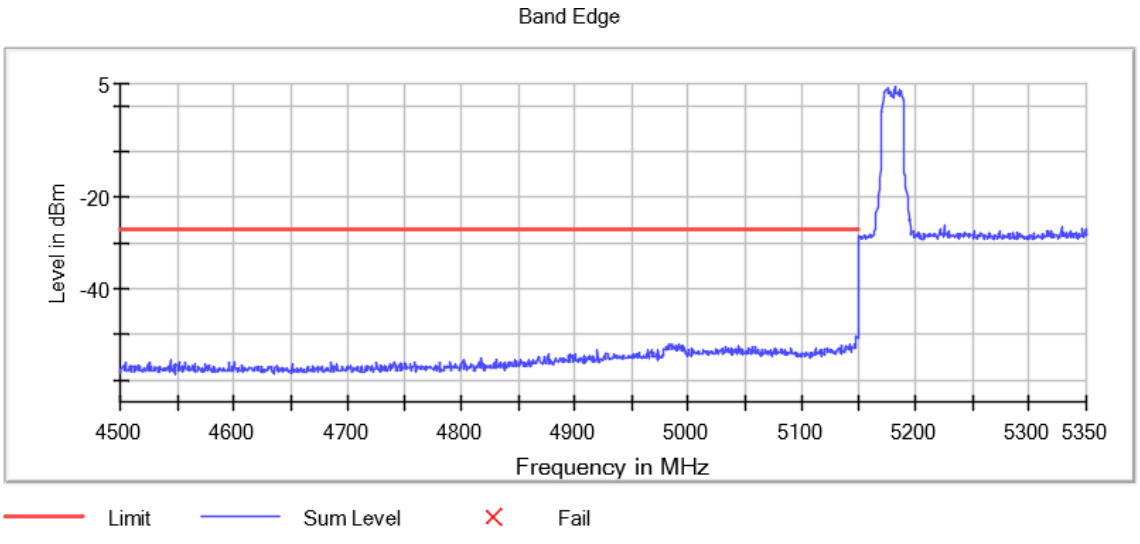
***Verdict***

Pass

***Attachments***

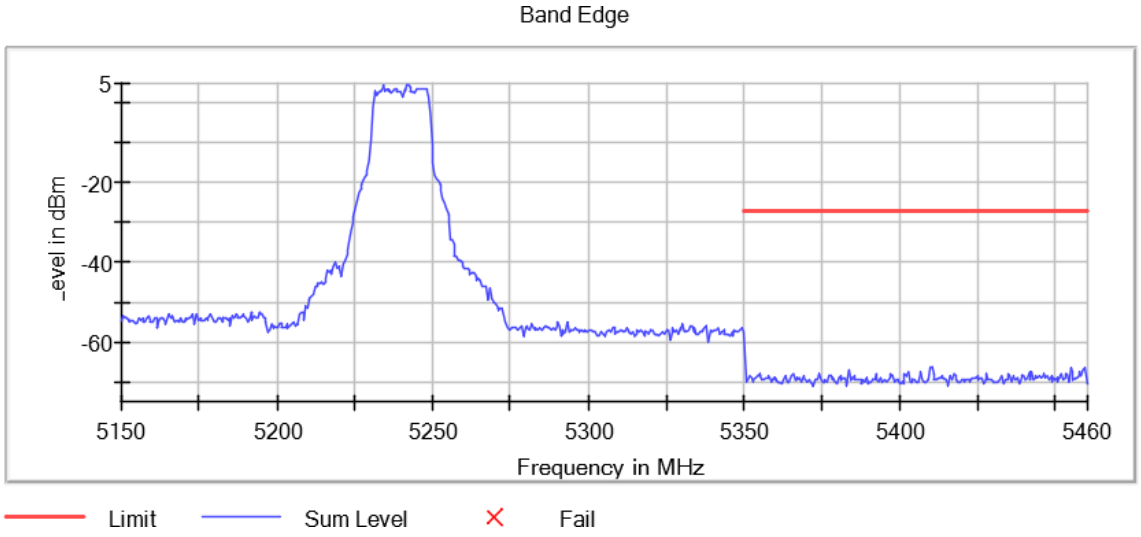
**Active Port = 2, Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



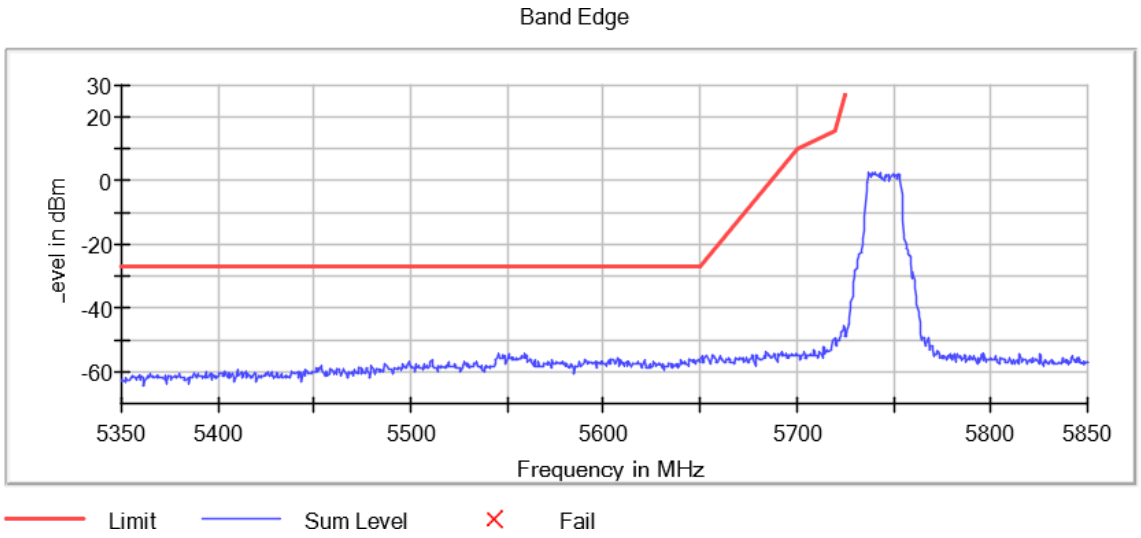
**Active Port = 2, Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

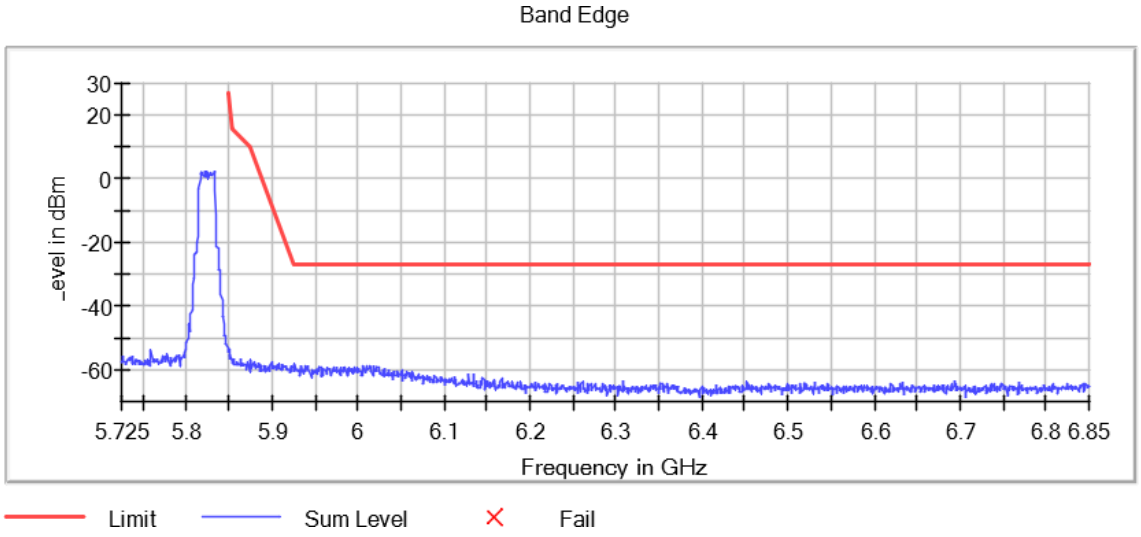



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11n HT40 (OFDM MCS0)

***Results***

DUT Frequency: 5190 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.250000 | -44.6 | 17.6 | -27.0 | PASS |
| 5148.250000 | -44.9 | 17.9 | -27.0 | PASS |
| 5147.750000 | -45.0 | 18.0 | -27.0 | PASS |
| 5145.750000 | -45.1 | 18.1 | -27.0 | PASS |
| 5147.250000 | -46.3 | 19.3 | -27.0 | PASS |
| 5148.750000 | -47.4 | 20.4 | -27.0 | PASS |
| 5144.250000 | -47.4 | 20.4 | -27.0 | PASS |
| 5146.750000 | -47.4 | 20.4 | -27.0 | PASS |
| 5149.750000 | -47.5 | 20.5 | -27.0 | PASS |
| 5139.250000 | -47.5 | 20.5 | -27.0 | PASS |
| 5143.750000 | -47.5 | 20.5 | -27.0 | PASS |
| 5142.750000 | -47.6 | 20.6 | -27.0 | PASS |
| 5139.750000 | -47.6 | 20.6 | -27.0 | PASS |
| 5146.250000 | -47.8 | 20.8 | -27.0 | PASS |
| 5140.250000 | -48.0 | 21.0 | -27.0 | PASS |

DUT Frequency: 5230 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5382.250000 | -55.2 | 28.2 | -27.0 | PASS |
| 5365.750000 | -55.3 | 28.3 | -27.0 | PASS |
| 5365.250000 | -55.8 | 28.8 | -27.0 | PASS |
| 5367.250000 | -55.9 | 28.9 | -27.0 | PASS |
| 5373.750000 | -56.0 | 29.0 | -27.0 | PASS |
| 5363.750000 | -56.1 | 29.1 | -27.0 | PASS |
| 5368.750000 | -56.1 | 29.1 | -27.0 | PASS |
| 5367.750000 | -56.2 | 29.2 | -27.0 | PASS |
| 5363.250000 | -56.2 | 29.2 | -27.0 | PASS |
| 5362.750000 | -56.3 | 29.3 | -27.0 | PASS |
| 5356.250000 | -56.3 | 29.3 | -27.0 | PASS |
| 5382.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5369.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5374.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5352.250000 | -56.5 | 29.5 | -27.0 | PASS |

DUT Frequency: 5755 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5638.250000 | -53.9 | 26.9 | -27.0 | PASS |
| 5644.750000 | -54.1 | 27.1 | -27.0 | PASS |
| 5628.750000 | -54.4 | 27.4 | -27.0 | PASS |
| 5632.750000 | -54.5 | 27.5 | -27.0 | PASS |
| 5627.750000 | -54.5 | 27.5 | -27.0 | PASS |
| 5559.250000 | -54.6 | 27.6 | -27.0 | PASS |
| 5644.250000 | -54.7 | 27.7 | -27.0 | PASS |
| 5641.250000 | -54.7 | 27.7 | -27.0 | PASS |
| 5647.750000 | -54.7 | 27.7 | -27.0 | PASS |
| 5635.250000 | -54.7 | 27.7 | -27.0 | PASS |
| 5622.250000 | -54.7 | 27.7 | -27.0 | PASS |
| 5561.750000 | -54.7 | 27.7 | -27.0 | PASS |
| 5634.750000 | -54.8 | 27.8 | -27.0 | PASS |
| 5626.750000 | -54.8 | 27.8 | -27.0 | PASS |
| 5611.750000 | -54.8 | 27.8 | -27.0 | PASS |

DUT Frequency: 5795 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5930.750000 | -56.4 | 29.4 | -27.0 | PASS |
| 5929.250000 | -56.5 | 29.5 | -27.0 | PASS |
| 5936.250000 | -56.6 | 29.6 | -27.0 | PASS |
| 5940.250000 | -56.7 | 29.7 | -27.0 | PASS |
| 5923.750000 | -55.8 | 29.8 | -27.0 | PASS |
| 5932.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5931.750000 | -56.8 | 29.8 | -27.0 | PASS |
| 5924.250000 | -56.3 | 29.8 | -27.0 | PASS |
| 5935.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5999.750000 | -57.1 | 30.1 | -27.0 | PASS |
| 5929.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5923.250000 | -55.9 | 30.2 | -27.0 | PASS |
| 5932.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5941.250000 | -57.2 | 30.2 | -27.0 | PASS |
| 5926.750000 | -57.3 | 30.3 | -27.0 | PASS |

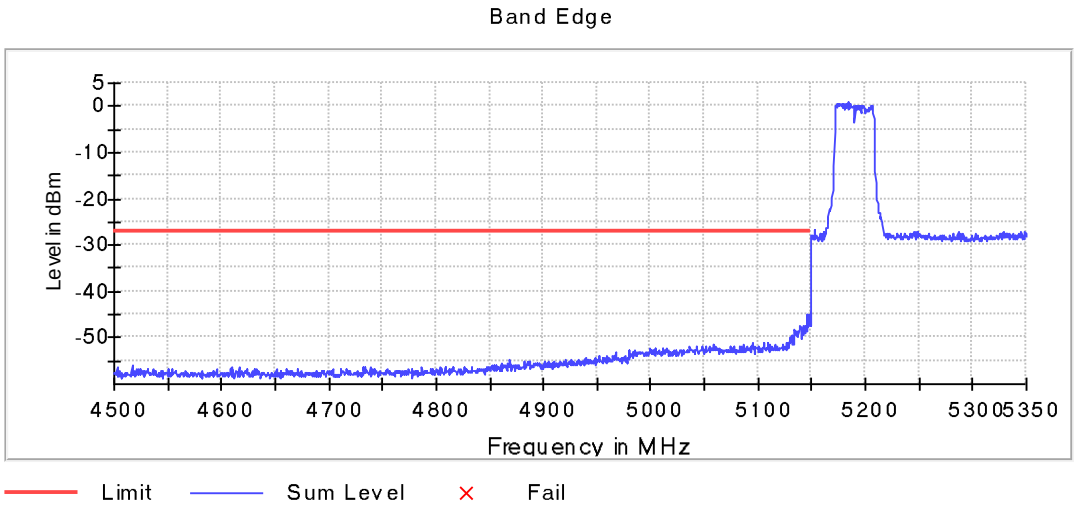
***Verdict***

Pass

***Attachments***

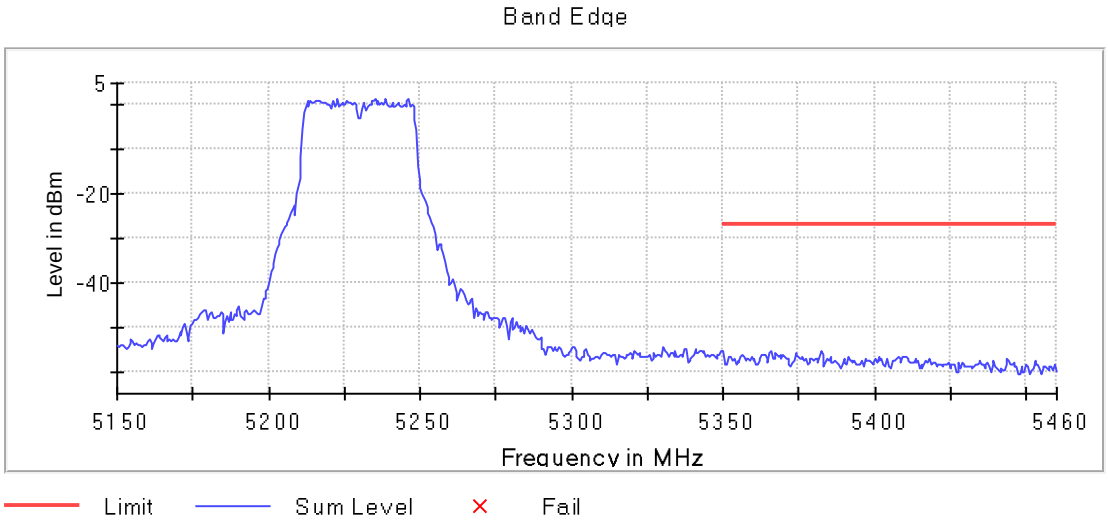
**Active Port = 2, Frequency MHz = 5190.00000, 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



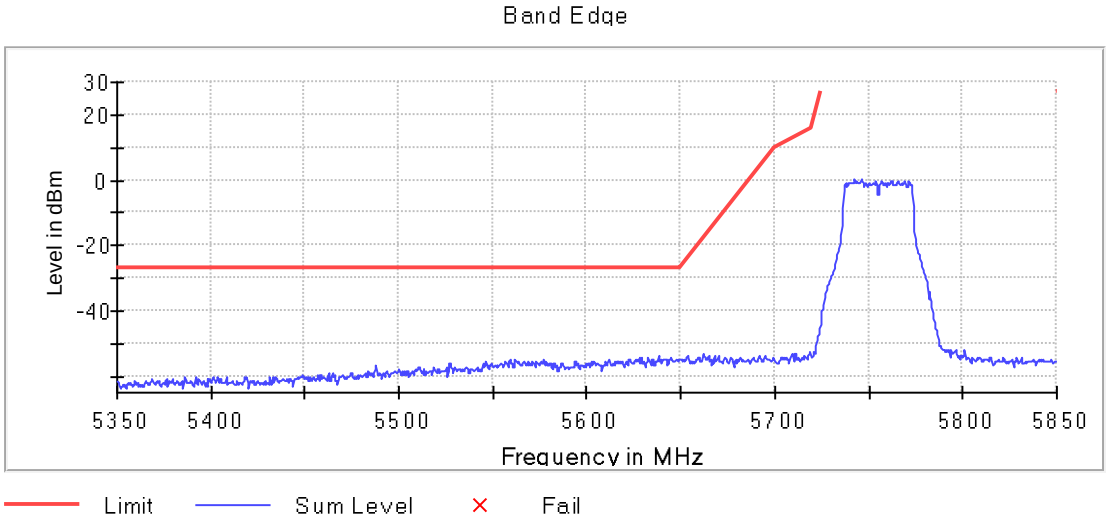
**Active Port = 2, Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**

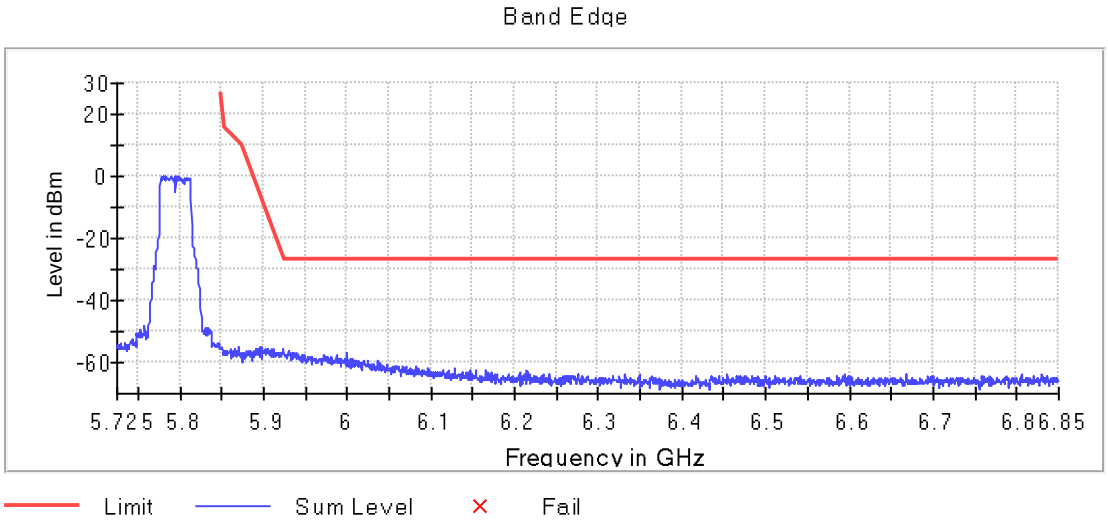



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

***Results***

DUT Frequency: 5180 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4995.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5138.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 4984.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 4994.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 4988.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 4993.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5029.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4982.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4992.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 5090.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 4995.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 4991.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5026.750000 | -52.9 | 25.9 | -27.0 | PASS |
| 5027.750000 | -52.9 | 25.9 | -27.0 | PASS |
| 5061.250000 | -53.0 | 26.0 | -27.0 | PASS |

DUT Frequency: 5240 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5450.250000 | -55.6 | 28.6 | -27.0 | PASS |
| 5382.250000 | -56.7 | 29.7 | -27.0 | PASS |
| 5408.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5369.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5450.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5377.750000 | -57.1 | 30.1 | -27.0 | PASS |
| 5368.750000 | -57.1 | 30.1 | -27.0 | PASS |
| 5363.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5381.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5375.250000 | -57.2 | 30.2 | -27.0 | PASS |

DUT Frequency: 5745 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4995.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5138.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 4984.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 4994.250000 | -52.5 | 25.5 | -27.0 | PASS |
| 4988.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 4993.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5029.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4982.250000 | -52.7 | 25.7 | -27.0 | PASS |
| 4992.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 5090.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 4995.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 4991.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5026.750000 | -52.9 | 25.9 | -27.0 | PASS |
| 5027.750000 | -52.9 | 25.9 | -27.0 | PASS |
| 5061.250000 | -53.0 | 26.0 | -27.0 | PASS |

DUT Frequency: 5825 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5450.250000 | -55.6 | 28.6 | -27.0 | PASS |
| 5382.250000 | -56.7 | 29.7 | -27.0 | PASS |
| 5408.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5369.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5450.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5377.750000 | -57.1 | 30.1 | -27.0 | PASS |
| 5368.750000 | -57.1 | 30.1 | -27.0 | PASS |
| 5363.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5381.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5375.250000 | -57.2 | 30.2 | -27.0 | PASS |
| 5370.250000 | -57.2 | 30.2 | -27.0 | PASS |
| 5377.250000 | -57.3 | 30.3 | -27.0 | PASS |
| 5410.250000 | -57.3 | 30.3 | -27.0 | PASS |
| 5403.750000 | -57.3 | 30.3 | -27.0 | PASS |
| 5426.250000 | -57.3 | 30.3 | -27.0 | PASS |

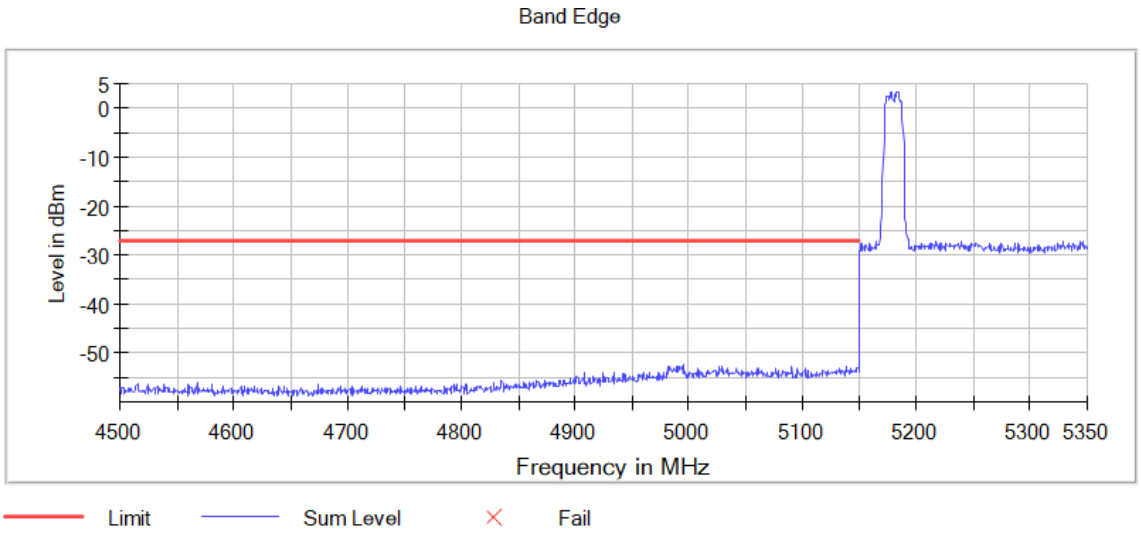
***Verdict***

Pass

***Attachments***

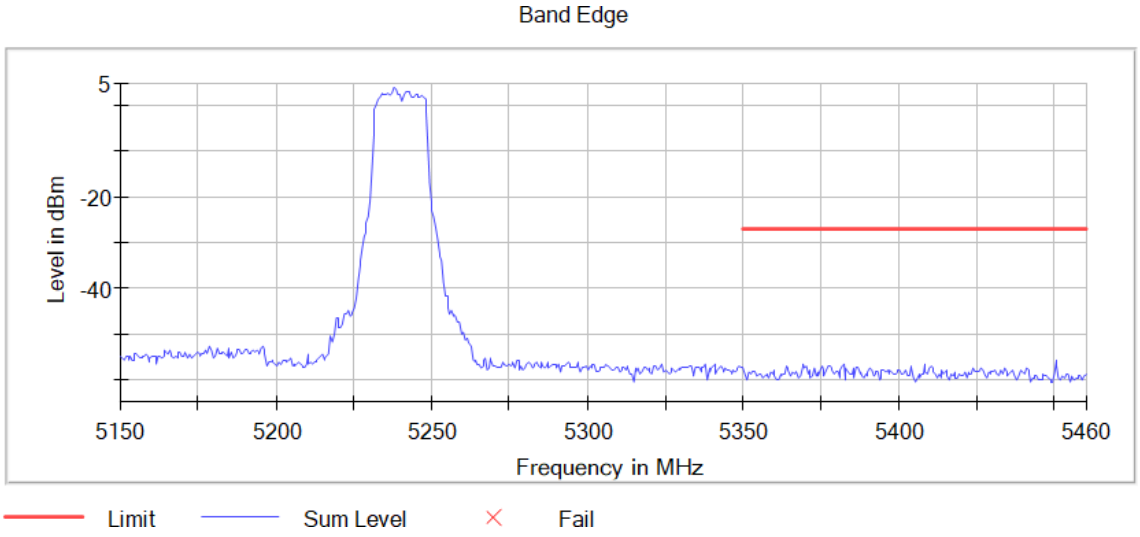
**Active Port = 2, Frequency MHz = 5180.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



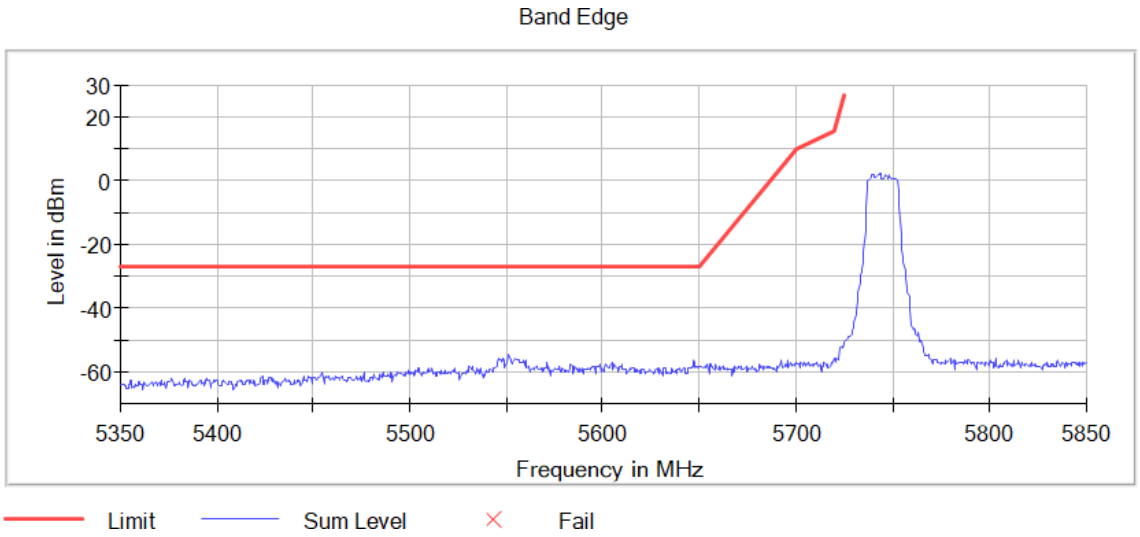
**Active Port = 2, Frequency MHz = 5240.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

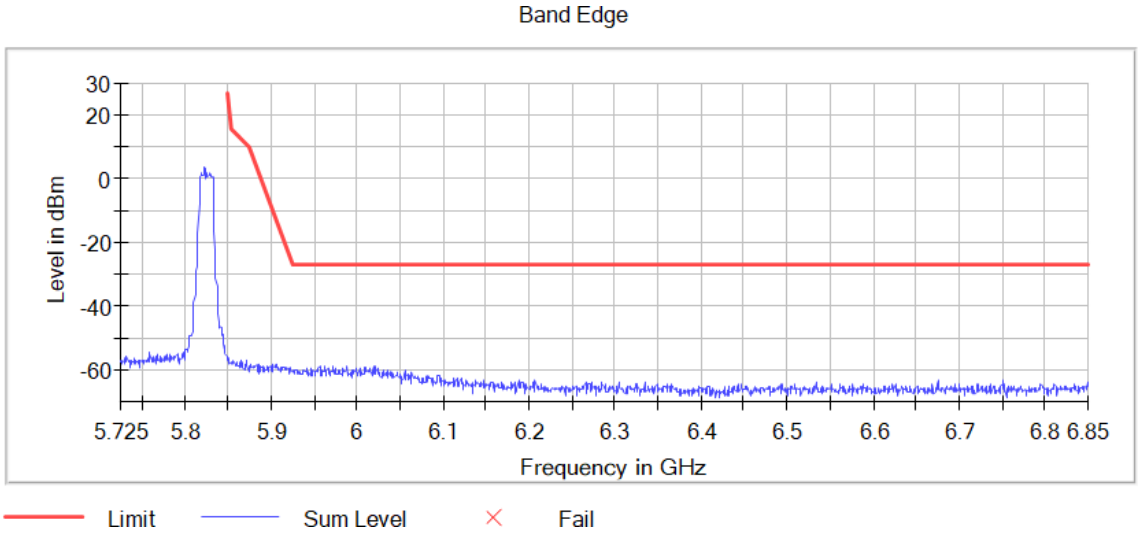



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

***Results***

DUT Frequency: 5190 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -40.4 | 13.4 | -27.0 | PASS |
| 5147.750000 | -42.0 | 15.0 | -27.0 | PASS |
| 5148.750000 | -42.3 | 15.3 | -27.0 | PASS |
| 5147.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5149.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5148.250000 | -42.5 | 15.5 | -27.0 | PASS |
| 5146.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5146.250000 | -42.9 | 15.9 | -27.0 | PASS |
| 5145.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5144.250000 | -43.8 | 16.8 | -27.0 | PASS |
| 5144.750000 | -44.1 | 17.1 | -27.0 | PASS |
| 5143.750000 | -44.3 | 17.3 | -27.0 | PASS |
| 5145.250000 | -44.3 | 17.3 | -27.0 | PASS |
| 5141.250000 | -44.6 | 17.6 | -27.0 | PASS |
| 5142.250000 | -44.8 | 17.8 | -27.0 | PASS |

DUT Frequency: 5230 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5376.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5366.750000 | -53.5 | 26.5 | -27.0 | PASS |
| 5363.250000 | -53.5 | 26.5 | -27.0 | PASS |
| 5354.750000 | -53.8 | 26.8 | -27.0 | PASS |
| 5357.750000 | -53.9 | 26.9 | -27.0 | PASS |
| 5356.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 5350.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5367.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5363.750000 | -54.1 | 27.1 | -27.0 | PASS |
| 5355.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5408.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5364.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5378.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5357.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5355.750000 | -54.3 | 27.3 | -27.0 | PASS |

DUT Frequency: 5755 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -40.4 | 13.4 | -27.0 | PASS |
| 5147.750000 | -42.0 | 15.0 | -27.0 | PASS |
| 5148.750000 | -42.3 | 15.3 | -27.0 | PASS |
| 5147.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5149.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5148.250000 | -42.5 | 15.5 | -27.0 | PASS |
| 5146.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5146.250000 | -42.9 | 15.9 | -27.0 | PASS |
| 5145.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5144.250000 | -43.8 | 16.8 | -27.0 | PASS |
| 5144.750000 | -44.1 | 17.1 | -27.0 | PASS |
| 5143.750000 | -44.3 | 17.3 | -27.0 | PASS |
| 5145.250000 | -44.3 | 17.3 | -27.0 | PASS |
| 5141.250000 | -44.6 | 17.6 | -27.0 | PASS |
| 5142.250000 | -44.8 | 17.8 | -27.0 | PASS |

DUT Frequency: 5795 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5376.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5366.750000 | -53.5 | 26.5 | -27.0 | PASS |
| 5363.250000 | -53.5 | 26.5 | -27.0 | PASS |
| 5354.750000 | -53.8 | 26.8 | -27.0 | PASS |
| 5357.750000 | -53.9 | 26.9 | -27.0 | PASS |
| 5356.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 5350.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5367.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5363.750000 | -54.1 | 27.1 | -27.0 | PASS |
| 5355.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5408.250000 | -54.1 | 27.1 | -27.0 | PASS |
| 5364.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5378.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5357.250000 | -54.3 | 27.3 | -27.0 | PASS |
| 5355.750000 | -54.3 | 27.3 | -27.0 | PASS |

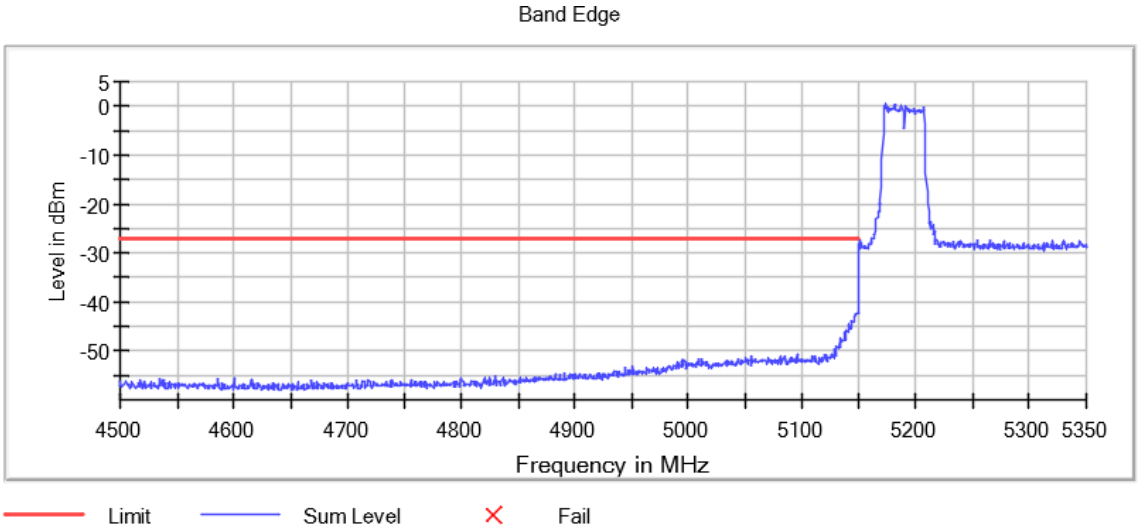
***Verdict***

Pass

***Attachments***

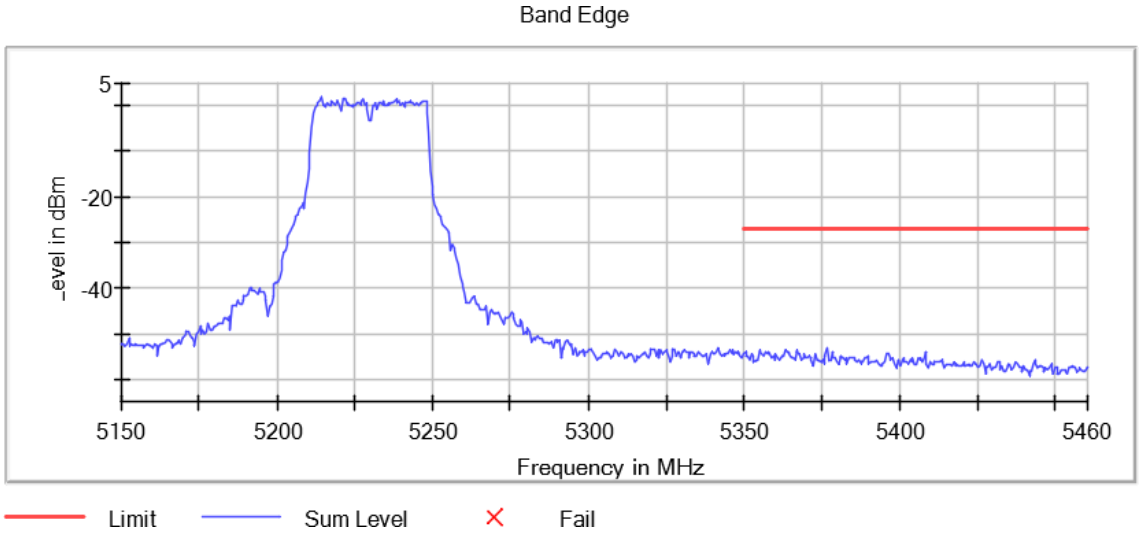
**Active Port = 2, Frequency MHz = 5190.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



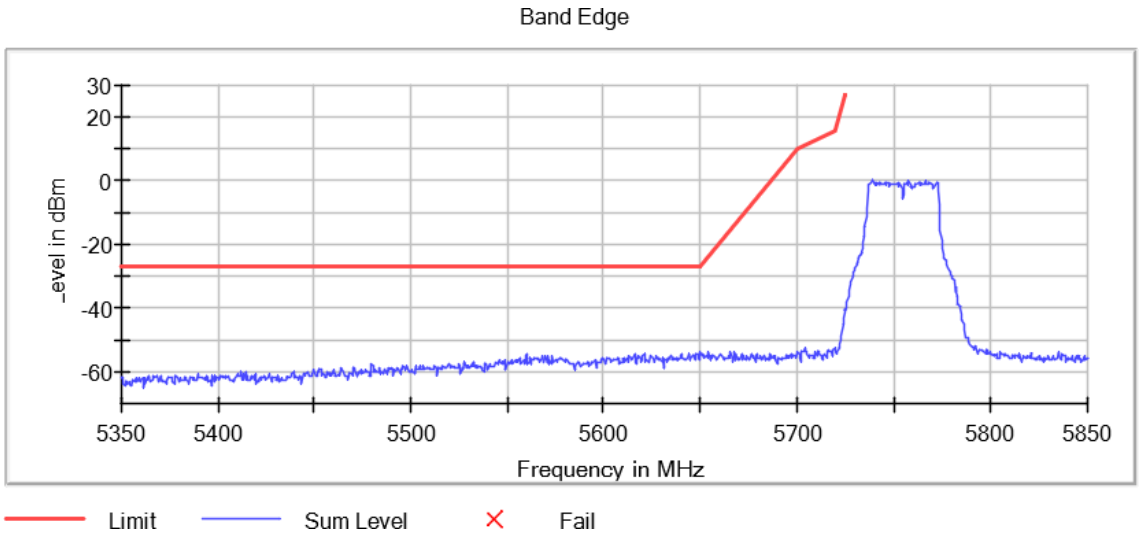
**Active Port = 2, Frequency MHz = 5230.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

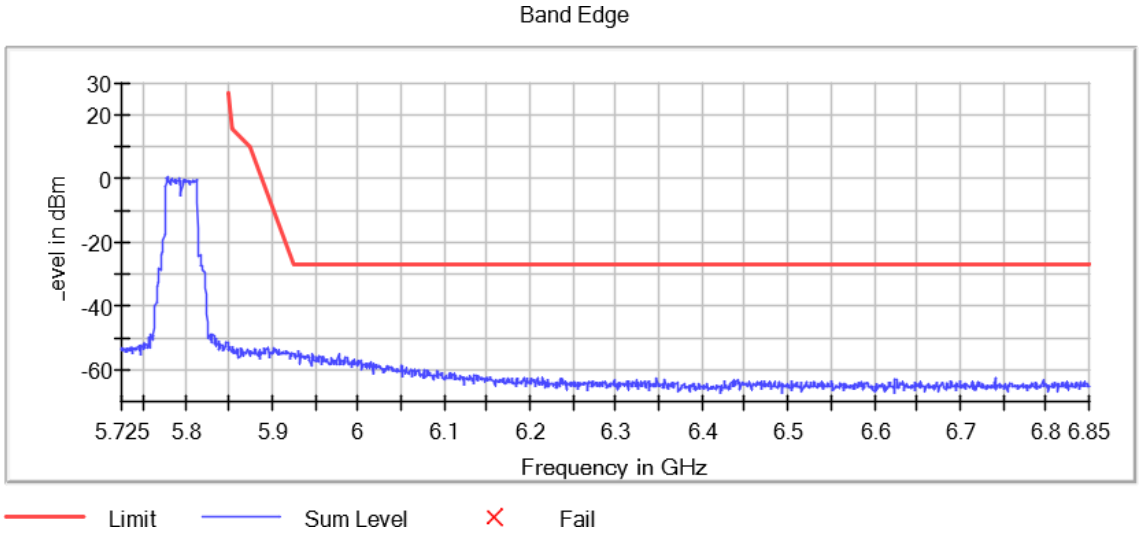



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

***Results***

DUT Frequency: 5210 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4979.250000 | -47.2 | 20.2 | -27.0 | PASS |
| 4979.750000 | -47.4 | 20.4 | -27.0 | PASS |
| 4980.250000 | -48.1 | 21.1 | -27.0 | PASS |
| 4980.750000 | -48.3 | 21.3 | -27.0 | PASS |
| 5020.750000 | -48.5 | 21.5 | -27.0 | PASS |
| 5148.750000 | -48.6 | 21.6 | -27.0 | PASS |
| 5020.250000 | -48.8 | 21.8 | -27.0 | PASS |
| 5149.750000 | -48.8 | 21.8 | -27.0 | PASS |
| 5018.750000 | -49.0 | 22.0 | -27.0 | PASS |
| 5018.250000 | -49.1 | 22.1 | -27.0 | PASS |
| 5095.250000 | -49.4 | 22.4 | -27.0 | PASS |
| 5134.250000 | -49.4 | 22.4 | -27.0 | PASS |
| 5019.250000 | -49.5 | 22.5 | -27.0 | PASS |
| 5019.750000 | -49.6 | 22.6 | -27.0 | PASS |
| 5021.750000 | -49.6 | 22.6 | -27.0 | PASS |

DUT Frequency: 5775 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -41.1 | 14.1 | -27.0 | PASS |
| 5149.250000 | -41.4 | 14.4 | -27.0 | PASS |
| 5145.750000 | -41.5 | 14.5 | -27.0 | PASS |
| 5146.250000 | -41.6 | 14.6 | -27.0 | PASS |
| 5147.750000 | -41.8 | 14.8 | -27.0 | PASS |
| 5148.750000 | -41.8 | 14.8 | -27.0 | PASS |
| 5147.250000 | -41.9 | 14.9 | -27.0 | PASS |
| 5145.250000 | -41.9 | 14.9 | -27.0 | PASS |
| 5148.250000 | -42.1 | 15.1 | -27.0 | PASS |
| 5146.750000 | -42.2 | 15.2 | -27.0 | PASS |
| 5143.750000 | -42.6 | 15.6 | -27.0 | PASS |
| 5144.750000 | -42.6 | 15.6 | -27.0 | PASS |
| 5144.250000 | -42.6 | 15.6 | -27.0 | PASS |
| 5139.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5143.250000 | -42.8 | 15.8 | -27.0 | PASS |

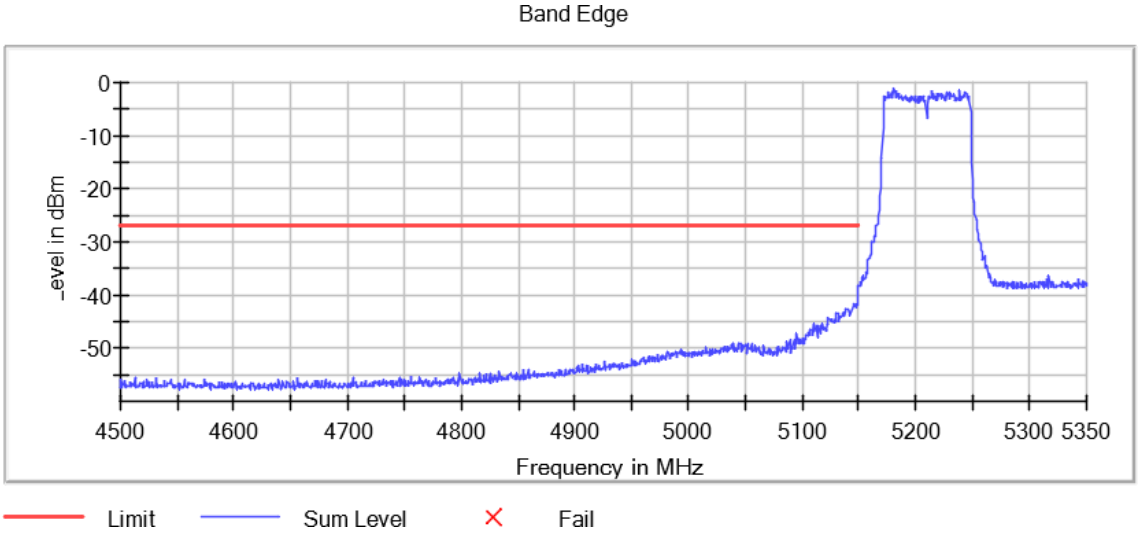
**Verdict**

Pass

***Attachments***

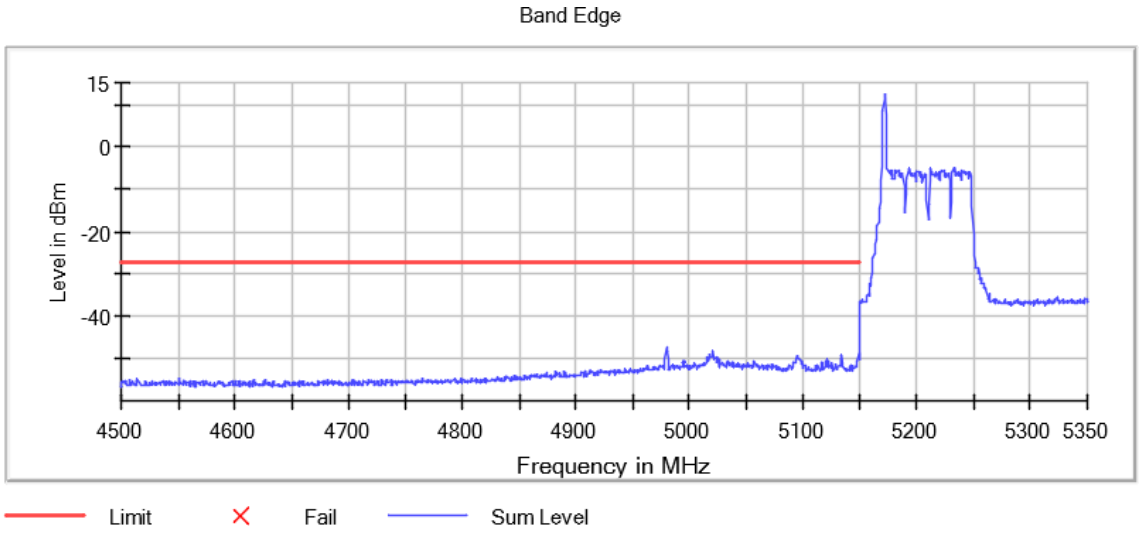
**Active Port = 2, Frequency MHz = 5210.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



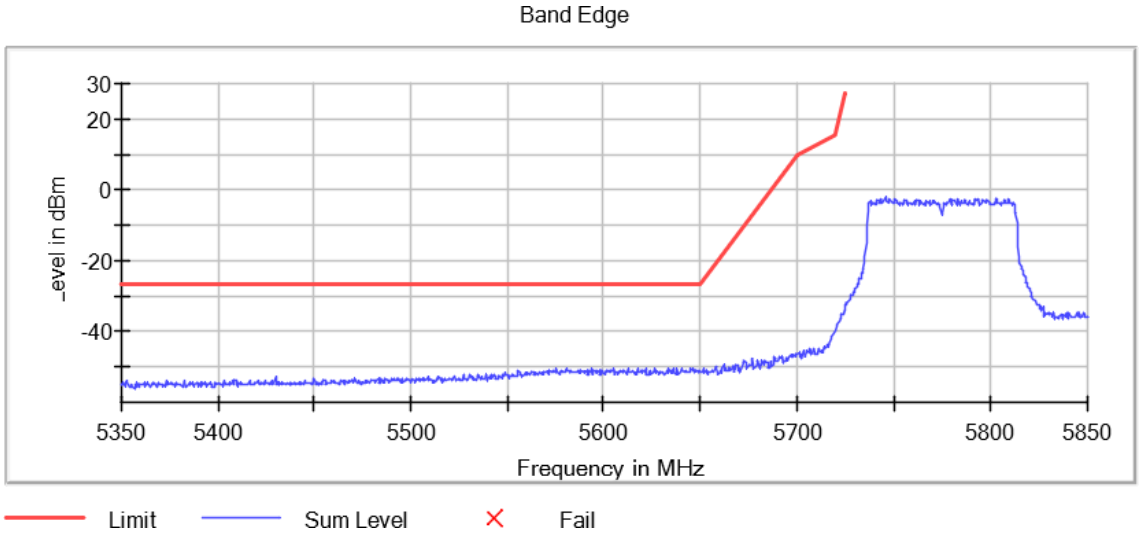
**Active Port = 2, Frequency MHz = 5210.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Start Frequency | 5.15000 GHz | 5.15000 GHz |
| Stop Frequency | 5.35000 GHz | 5.35000 GHz |
| Span | 200.000 MHz | 200.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 400 | ~ 400 |
| Sweeptime | 40.000 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 9 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.41 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE20 (OFDMA MCS0) – Full RU

***Results***

DUT Frequency: 5180 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -42.0 | 15.0 | -27.0 | PASS |
| 5149.250000 | -42.8 | 15.8 | -27.0 | PASS |
| 5148.750000 | -43.0 | 16.0 | -27.0 | PASS |
| 5148.250000 | -43.9 | 16.9 | -27.0 | PASS |
| 5147.750000 | -44.1 | 17.1 | -27.0 | PASS |
| 5147.250000 | -44.5 | 17.5 | -27.0 | PASS |
| 5146.750000 | -45.0 | 18.0 | -27.0 | PASS |
| 5146.250000 | -45.7 | 18.7 | -27.0 | PASS |
| 5145.750000 | -46.0 | 19.0 | -27.0 | PASS |
| 5145.250000 | -46.4 | 19.4 | -27.0 | PASS |
| 5144.750000 | -46.7 | 19.7 | -27.0 | PASS |
| 5144.250000 | -47.6 | 20.6 | -27.0 | PASS |
| 5143.750000 | -49.0 | 22.0 | -27.0 | PASS |
| 5142.750000 | -49.3 | 22.3 | -27.0 | PASS |
| 5143.250000 | -49.4 | 22.4 | -27.0 | PASS |

DUT Frequency: 5240 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5354.750000 | -52.3 | 25.3 | -27.0 | PASS |
| 5433.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5353.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 5354.250000 | -52.8 | 25.8 | -27.0 | PASS |
| 5375.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5441.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5408.250000 | -53.0 | 26.0 | -27.0 | PASS |
| 5370.750000 | -53.0 | 26.0 | -27.0 | PASS |
| 5380.750000 | -53.0 | 26.0 | -27.0 | PASS |
| 5419.250000 | -53.1 | 26.1 | -27.0 | PASS |
| 5397.750000 | -53.1 | 26.1 | -27.0 | PASS |
| 5411.250000 | -53.1 | 26.1 | -27.0 | PASS |
| 5366.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5350.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5427.250000 | -53.2 | 26.2 | -27.0 | PASS |

DUT Frequency: 5745 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -42.0 | 15.0 | -27.0 | PASS |
| 5149.250000 | -42.8 | 15.8 | -27.0 | PASS |
| 5148.750000 | -43.0 | 16.0 | -27.0 | PASS |
| 5148.250000 | -43.9 | 16.9 | -27.0 | PASS |
| 5147.750000 | -44.1 | 17.1 | -27.0 | PASS |
| 5147.250000 | -44.5 | 17.5 | -27.0 | PASS |
| 5146.750000 | -45.0 | 18.0 | -27.0 | PASS |
| 5146.250000 | -45.7 | 18.7 | -27.0 | PASS |
| 5145.750000 | -46.0 | 19.0 | -27.0 | PASS |
| 5145.250000 | -46.4 | 19.4 | -27.0 | PASS |
| 5144.750000 | -46.7 | 19.7 | -27.0 | PASS |
| 5144.250000 | -47.6 | 20.6 | -27.0 | PASS |
| 5143.750000 | -49.0 | 22.0 | -27.0 | PASS |
| 5142.750000 | -49.3 | 22.3 | -27.0 | PASS |
| 5143.250000 | -49.4 | 22.4 | -27.0 | PASS |

DUT Frequency: 5825 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5354.750000 | -52.3 | 25.3 | -27.0 | PASS |
| 5433.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5353.750000 | -52.8 | 25.8 | -27.0 | PASS |
| 5354.250000 | -52.8 | 25.8 | -27.0 | PASS |
| 5375.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5441.250000 | -52.9 | 25.9 | -27.0 | PASS |
| 5408.250000 | -53.0 | 26.0 | -27.0 | PASS |
| 5370.750000 | -53.0 | 26.0 | -27.0 | PASS |
| 5380.750000 | -53.0 | 26.0 | -27.0 | PASS |
| 5419.250000 | -53.1 | 26.1 | -27.0 | PASS |
| 5397.750000 | -53.1 | 26.1 | -27.0 | PASS |
| 5411.250000 | -53.1 | 26.1 | -27.0 | PASS |
| 5366.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5350.750000 | -53.2 | 26.2 | -27.0 | PASS |
| 5427.250000 | -53.2 | 26.2 | -27.0 | PASS |

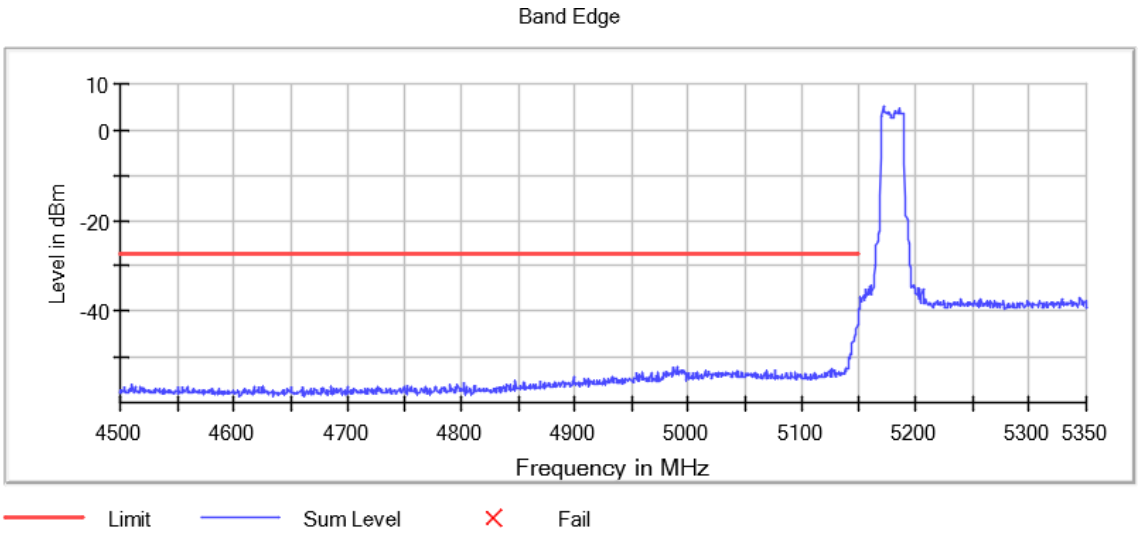
***Verdict***

Pass

***Attachments***

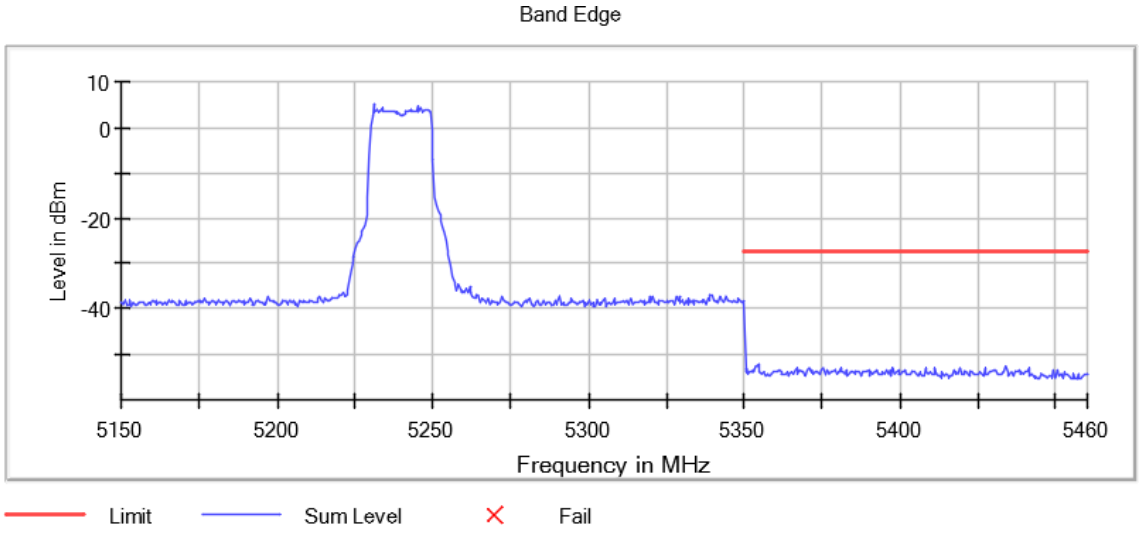
**Active Port = 2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



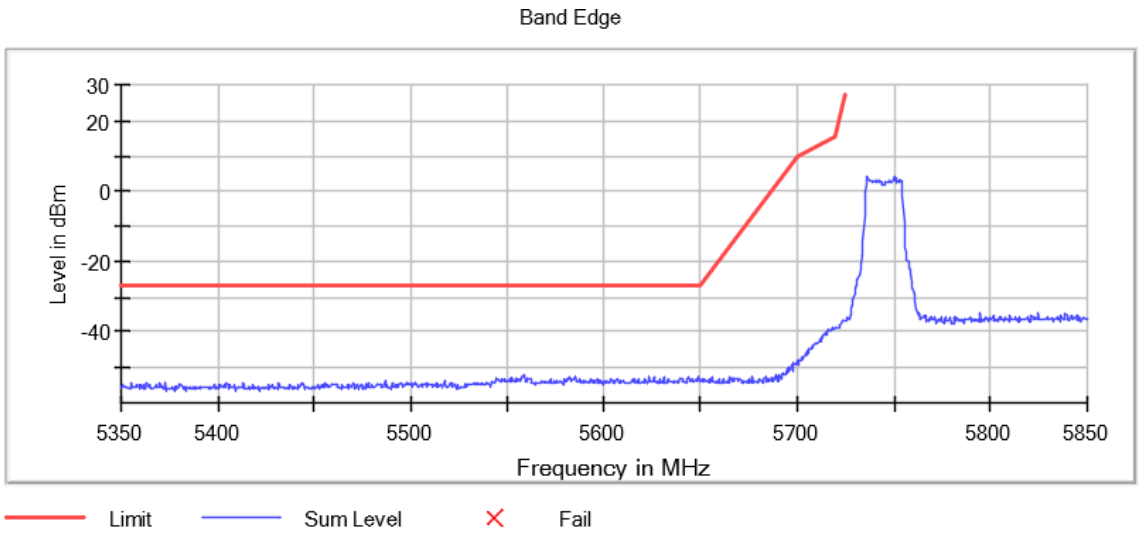
**Active Port = 2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

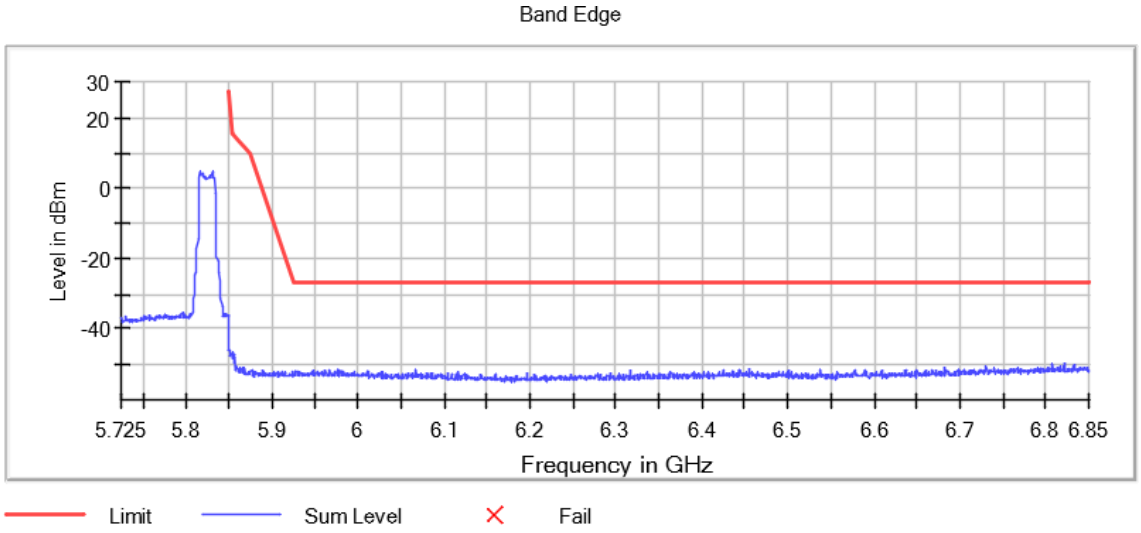



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE20 (OFDMA MCS0) – Partial RU

***Results***

DUT Frequency: 5180 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4980.250000 | -49.7 | 22.7 | -27.0 | PASS |
| 4979.750000 | -50.2 | 23.2 | -27.0 | PASS |
| 4979.250000 | -50.3 | 23.3 | -27.0 | PASS |
| 4978.750000 | -50.8 | 23.8 | -27.0 | PASS |
| 4978.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 4980.750000 | -52.3 | 25.3 | -27.0 | PASS |
| 5135.750000 | -53.4 | 26.4 | -27.0 | PASS |
| 5135.250000 | -53.4 | 26.4 | -27.0 | PASS |
| 5130.250000 | -53.5 | 26.5 | -27.0 | PASS |
| 5146.750000 | -53.9 | 26.9 | -27.0 | PASS |
| 5142.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 5149.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 4989.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5147.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5123.250000 | -54.0 | 27.0 | -27.0 | PASS |

DUT Frequency: 5240 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5440.250000 | -53.9 | 26.9 | -27.0 | PASS |
| 5439.750000 | -54.1 | 27.1 | -27.0 | PASS |
| 5441.250000 | -55.1 | 28.1 | -27.0 | PASS |
| 5440.750000 | -55.1 | 28.1 | -27.0 | PASS |
| 5389.750000 | -56.2 | 29.2 | -27.0 | PASS |
| 5439.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5414.750000 | -56.5 | 29.5 | -27.0 | PASS |
| 5401.750000 | -56.5 | 29.5 | -27.0 | PASS |
| 5401.250000 | -56.6 | 29.6 | -27.0 | PASS |
| 5454.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5424.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5423.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5441.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5415.250000 | -57.2 | 30.2 | -27.0 | PASS |
| 5411.750000 | -57.4 | 30.4 | -27.0 | PASS |

DUT Frequency: 5745 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 4980.250000 | -49.7 | 22.7 | -27.0 | PASS |
| 4979.750000 | -50.2 | 23.2 | -27.0 | PASS |
| 4979.250000 | -50.3 | 23.3 | -27.0 | PASS |
| 4978.750000 | -50.8 | 23.8 | -27.0 | PASS |
| 4978.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 4980.750000 | -52.3 | 25.3 | -27.0 | PASS |
| 5135.750000 | -53.4 | 26.4 | -27.0 | PASS |
| 5135.250000 | -53.4 | 26.4 | -27.0 | PASS |
| 5130.250000 | -53.5 | 26.5 | -27.0 | PASS |
| 5146.750000 | -53.9 | 26.9 | -27.0 | PASS |
| 5142.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 5149.750000 | -54.0 | 27.0 | -27.0 | PASS |
| 4989.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5147.250000 | -54.0 | 27.0 | -27.0 | PASS |
| 5123.250000 | -54.0 | 27.0 | -27.0 | PASS |

DUT Frequency: 5825 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5440.250000 | -53.9 | 26.9 | -27.0 | PASS |
| 5439.750000 | -54.1 | 27.1 | -27.0 | PASS |
| 5441.250000 | -55.1 | 28.1 | -27.0 | PASS |
| 5440.750000 | -55.1 | 28.1 | -27.0 | PASS |
| 5389.750000 | -56.2 | 29.2 | -27.0 | PASS |
| 5439.250000 | -56.4 | 29.4 | -27.0 | PASS |
| 5414.750000 | -56.5 | 29.5 | -27.0 | PASS |
| 5401.750000 | -56.5 | 29.5 | -27.0 | PASS |
| 5401.250000 | -56.6 | 29.6 | -27.0 | PASS |
| 5454.250000 | -56.8 | 29.8 | -27.0 | PASS |
| 5424.250000 | -56.9 | 29.9 | -27.0 | PASS |
| 5423.750000 | -57.0 | 30.0 | -27.0 | PASS |
| 5441.750000 | -57.2 | 30.2 | -27.0 | PASS |
| 5415.250000 | -57.2 | 30.2 | -27.0 | PASS |
| 5411.750000 | -57.4 | 30.4 | -27.0 | PASS |

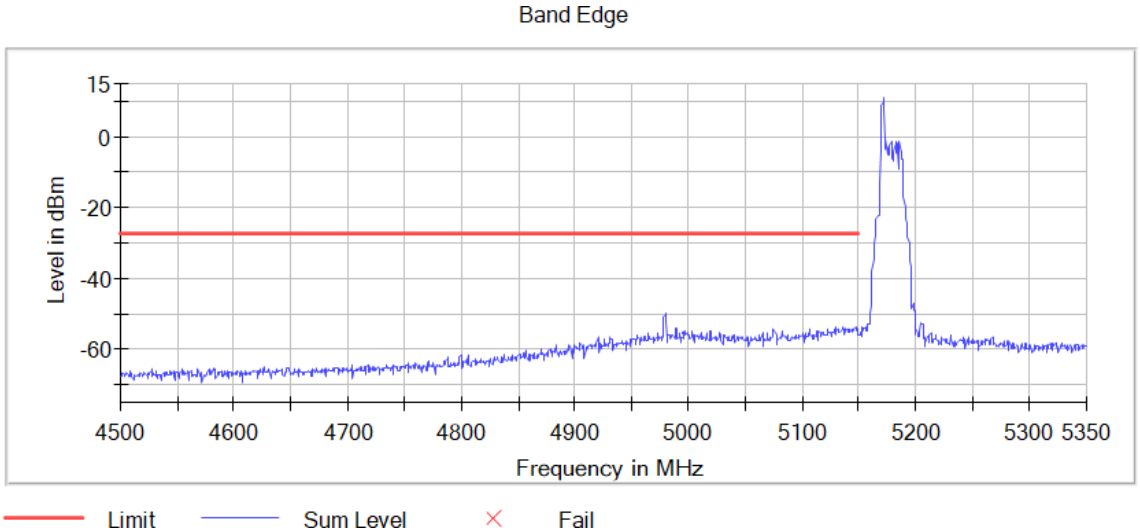
***Verdict***

Pass

***Attachments***

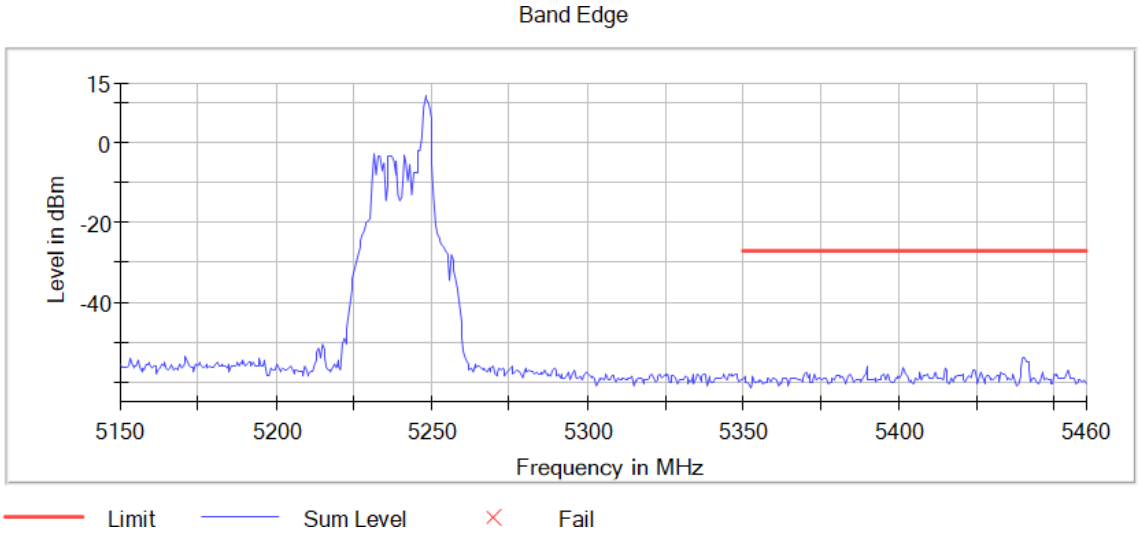
**Active Port = 2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



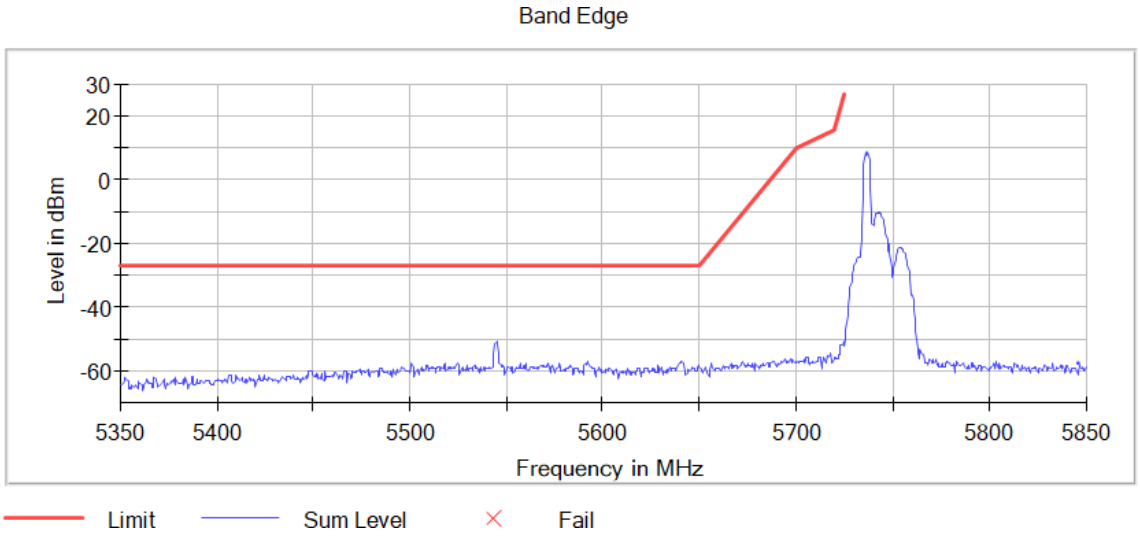
**Active Port = 2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

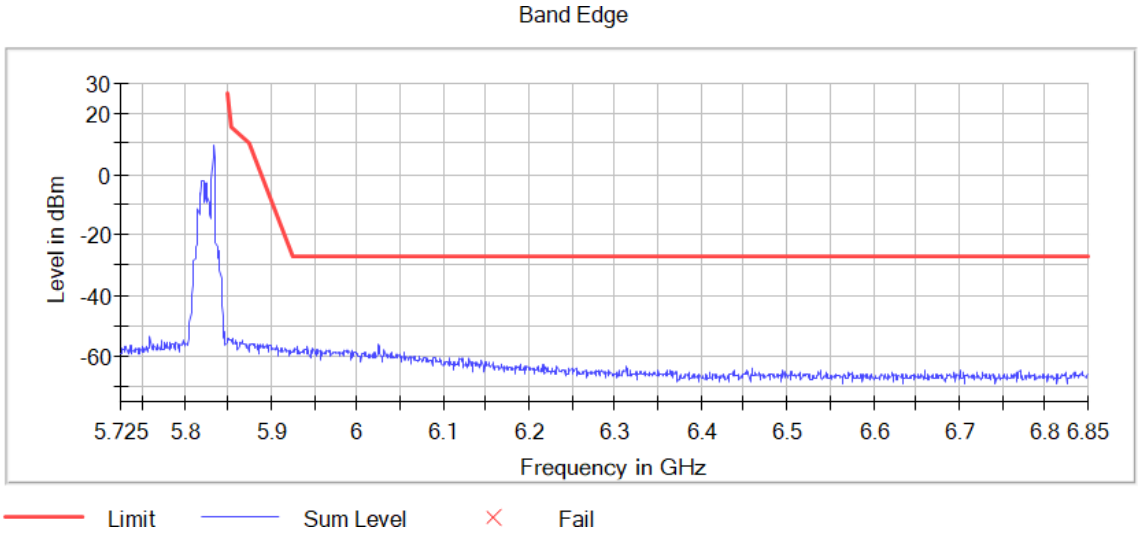



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0) – Full RU

***Results***

DUT Frequency: 5190 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -39.7 | 12.7 | -27.0 | PASS |
| 5148.750000 | -39.7 | 12.7 | -27.0 | PASS |
| 5147.250000 | -40.0 | 13.0 | -27.0 | PASS |
| 5146.250000 | -40.1 | 13.1 | -27.0 | PASS |
| 5146.750000 | -40.2 | 13.2 | -27.0 | PASS |
| 5147.750000 | -40.3 | 13.3 | -27.0 | PASS |
| 5144.250000 | -40.4 | 13.4 | -27.0 | PASS |
| 5148.250000 | -40.5 | 13.5 | -27.0 | PASS |
| 5149.250000 | -40.6 | 13.6 | -27.0 | PASS |
| 5143.750000 | -40.7 | 13.7 | -27.0 | PASS |
| 5145.750000 | -40.9 | 13.9 | -27.0 | PASS |
| 5144.750000 | -40.9 | 13.9 | -27.0 | PASS |
| 5143.250000 | -41.2 | 14.2 | -27.0 | PASS |
| 5142.250000 | -41.2 | 14.2 | -27.0 | PASS |
| 5140.750000 | -41.6 | 14.6 | -27.0 | PASS |

DUT Frequency: 5230 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5362.250000 | -51.4 | 24.4 | -27.0 | PASS |
| 5402.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5386.250000 | -52.0 | 25.0 | -27.0 | PASS |
| 5369.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5367.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5372.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5350.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5353.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5361.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 5436.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5363.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5413.250000 | -52.6 | 25.6 | -27.0 | PASS |
| 5368.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5450.750000 | -52.7 | 25.7 | -27.0 | PASS |
| 5411.750000 | -52.7 | 25.7 | -27.0 | PASS |

DUT Frequency: 5755 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.750000 | -40.4 | 13.4 | -27.0 | PASS |
| 5147.750000 | -42.0 | 15.0 | -27.0 | PASS |
| 5148.750000 | -42.3 | 15.3 | -27.0 | PASS |
| 5147.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5149.250000 | -42.4 | 15.4 | -27.0 | PASS |
| 5148.250000 | -42.5 | 15.5 | -27.0 | PASS |
| 5146.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5146.250000 | -42.9 | 15.9 | -27.0 | PASS |
| 5145.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5144.250000 | -43.8 | 16.8 | -27.0 | PASS |
| 5144.750000 | -44.1 | 17.1 | -27.0 | PASS |
| 5143.750000 | -44.3 | 17.3 | -27.0 | PASS |
| 5145.250000 | -44.3 | 17.3 | -27.0 | PASS |
| 5141.250000 | -44.6 | 17.6 | -27.0 | PASS |
| 5142.250000 | -44.8 | 17.8 | -27.0 | PASS |

DUT Frequency: 5795 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5362.250000 | -51.4 | 24.4 | -27.0 | PASS |
| 5402.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5386.250000 | -52.0 | 25.0 | -27.0 | PASS |
| 5369.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5367.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5372.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5350.750000 | -52.4 | 25.4 | -27.0 | PASS |
| 5353.250000 | -52.4 | 25.4 | -27.0 | PASS |
| 5361.750000 | -52.5 | 25.5 | -27.0 | PASS |
| 5436.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5363.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5413.250000 | -52.6 | 25.6 | -27.0 | PASS |
| 5368.750000 | -52.6 | 25.6 | -27.0 | PASS |
| 5450.750000 | -52.7 | 25.7 | -27.0 | PASS |
| 5411.750000 | -52.7 | 25.7 | -27.0 | PASS |

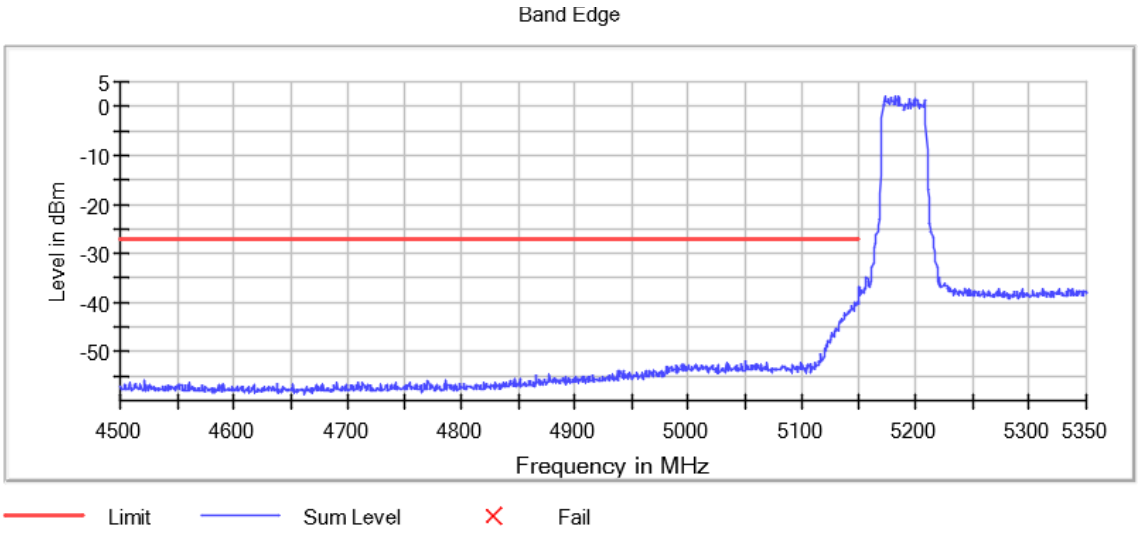
***Verdict***

Pass

***Attachments***

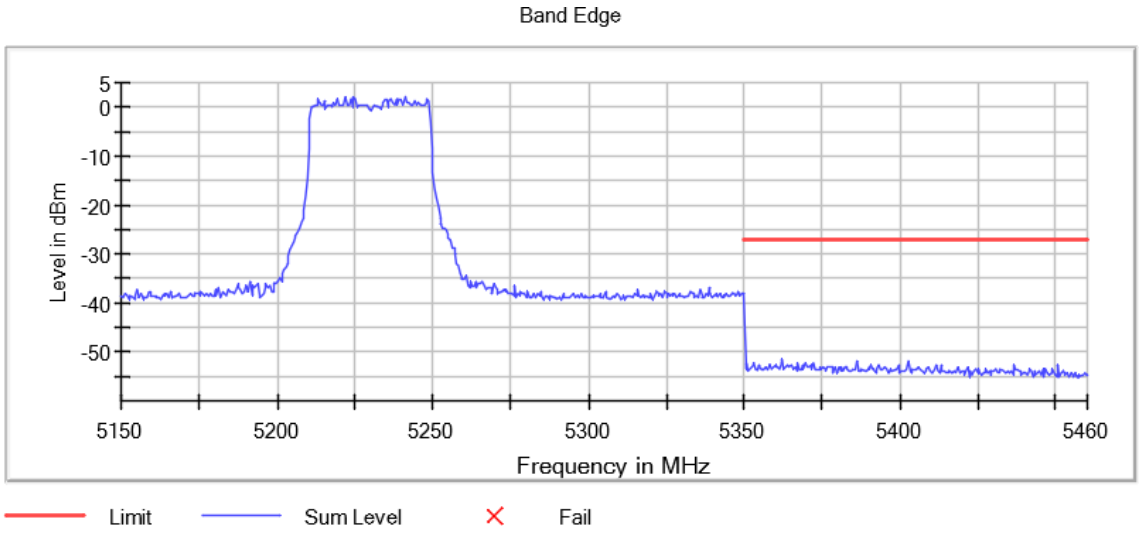
**Active Port = 2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



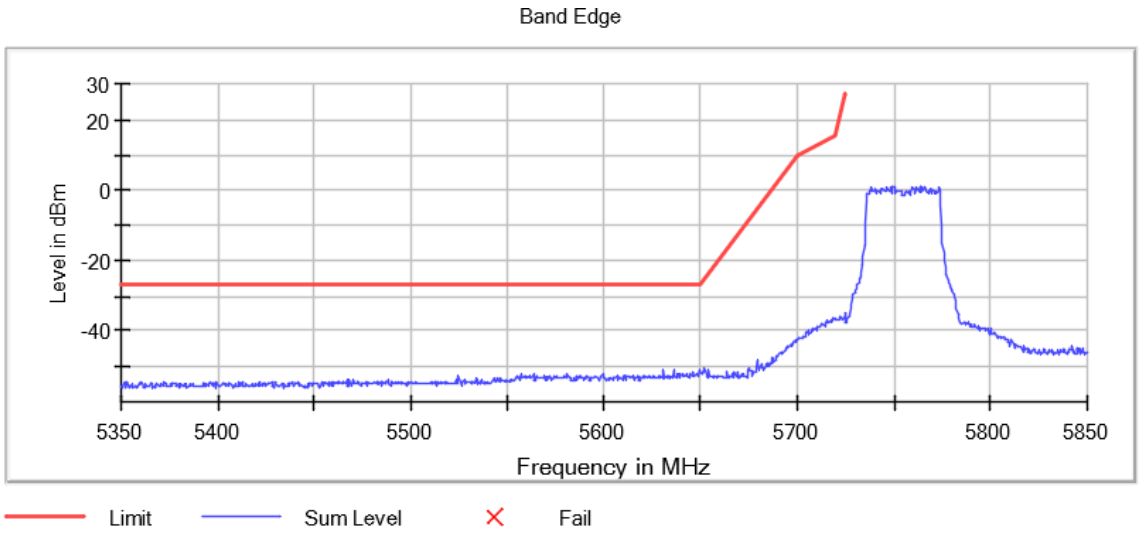
**Active Port = 2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

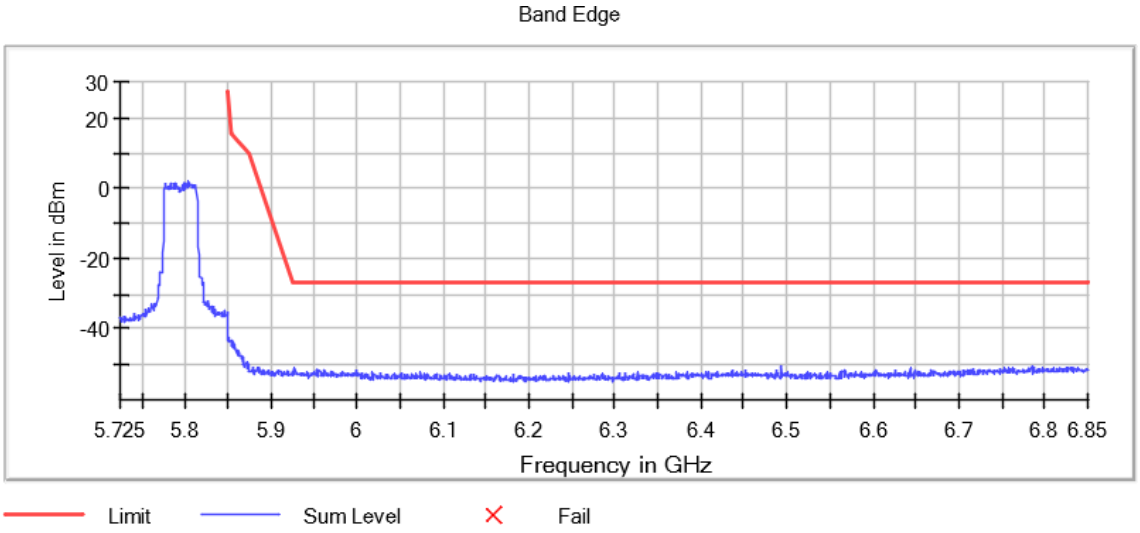



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE40 (OFDMA MCS0) – Partial RU

***Results***

DUT Frequency: 5190 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5148.250000 | -40.5 | 13.5 | -27.0 | PASS |
| 5147.750000 | -41.1 | 14.1 | -27.0 | PASS |
| 5145.750000 | -41.3 | 14.3 | -27.0 | PASS |
| 5145.250000 | -41.7 | 14.7 | -27.0 | PASS |
| 5148.750000 | -42.1 | 15.1 | -27.0 | PASS |
| 5149.750000 | -42.3 | 15.3 | -27.0 | PASS |
| 5149.250000 | -42.5 | 15.5 | -27.0 | PASS |
| 5142.250000 | -42.8 | 15.8 | -27.0 | PASS |
| 5144.250000 | -43.2 | 16.2 | -27.0 | PASS |
| 5143.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5141.750000 | -43.5 | 16.5 | -27.0 | PASS |
| 5144.750000 | -43.6 | 16.6 | -27.0 | PASS |
| 5146.250000 | -44.2 | 17.2 | -27.0 | PASS |
| 5138.250000 | -44.4 | 17.4 | -27.0 | PASS |
| 5141.250000 | -44.5 | 17.5 | -27.0 | PASS |

DUT Frequency: 5230 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5388.750000 | -50.9 | 23.9 | -27.0 | PASS |
| 5440.250000 | -51.1 | 24.1 | -27.0 | PASS |
| 5400.250000 | -51.3 | 24.3 | -27.0 | PASS |
| 5439.250000 | -51.4 | 24.4 | -27.0 | PASS |
| 5385.750000 | -51.4 | 24.4 | -27.0 | PASS |
| 5364.250000 | -51.6 | 24.6 | -27.0 | PASS |
| 5391.750000 | -51.6 | 24.6 | -27.0 | PASS |
| 5374.750000 | -51.7 | 24.7 | -27.0 | PASS |
| 5361.250000 | -51.7 | 24.7 | -27.0 | PASS |
| 5358.250000 | -51.8 | 24.8 | -27.0 | PASS |
| 5439.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5372.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5374.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5387.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5391.250000 | -51.9 | 24.9 | -27.0 | PASS |

DUT Frequency: 5755 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5148.250000 | -40.5 | 13.5 | -27.0 | PASS |
| 5147.750000 | -41.1 | 14.1 | -27.0 | PASS |
| 5145.750000 | -41.3 | 14.3 | -27.0 | PASS |
| 5145.250000 | -41.7 | 14.7 | -27.0 | PASS |
| 5148.750000 | -42.1 | 15.1 | -27.0 | PASS |
| 5149.750000 | -42.3 | 15.3 | -27.0 | PASS |
| 5149.250000 | -42.5 | 15.5 | -27.0 | PASS |
| 5142.250000 | -42.8 | 15.8 | -27.0 | PASS |
| 5144.250000 | -43.2 | 16.2 | -27.0 | PASS |
| 5143.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5141.750000 | -43.5 | 16.5 | -27.0 | PASS |
| 5144.750000 | -43.6 | 16.6 | -27.0 | PASS |
| 5146.250000 | -44.2 | 17.2 | -27.0 | PASS |
| 5138.250000 | -44.4 | 17.4 | -27.0 | PASS |
| 5141.250000 | -44.5 | 17.5 | -27.0 | PASS |

DUT Frequency: 5795 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5388.750000 | -50.9 | 23.9 | -27.0 | PASS |
| 5440.250000 | -51.1 | 24.1 | -27.0 | PASS |
| 5400.250000 | -51.3 | 24.3 | -27.0 | PASS |
| 5439.250000 | -51.4 | 24.4 | -27.0 | PASS |
| 5385.750000 | -51.4 | 24.4 | -27.0 | PASS |
| 5364.250000 | -51.6 | 24.6 | -27.0 | PASS |
| 5391.750000 | -51.6 | 24.6 | -27.0 | PASS |
| 5374.750000 | -51.7 | 24.7 | -27.0 | PASS |
| 5361.250000 | -51.7 | 24.7 | -27.0 | PASS |
| 5358.250000 | -51.8 | 24.8 | -27.0 | PASS |
| 5439.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5372.750000 | -51.9 | 24.9 | -27.0 | PASS |
| 5374.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5387.250000 | -51.9 | 24.9 | -27.0 | PASS |
| 5391.250000 | -51.9 | 24.9 | -27.0 | PASS |

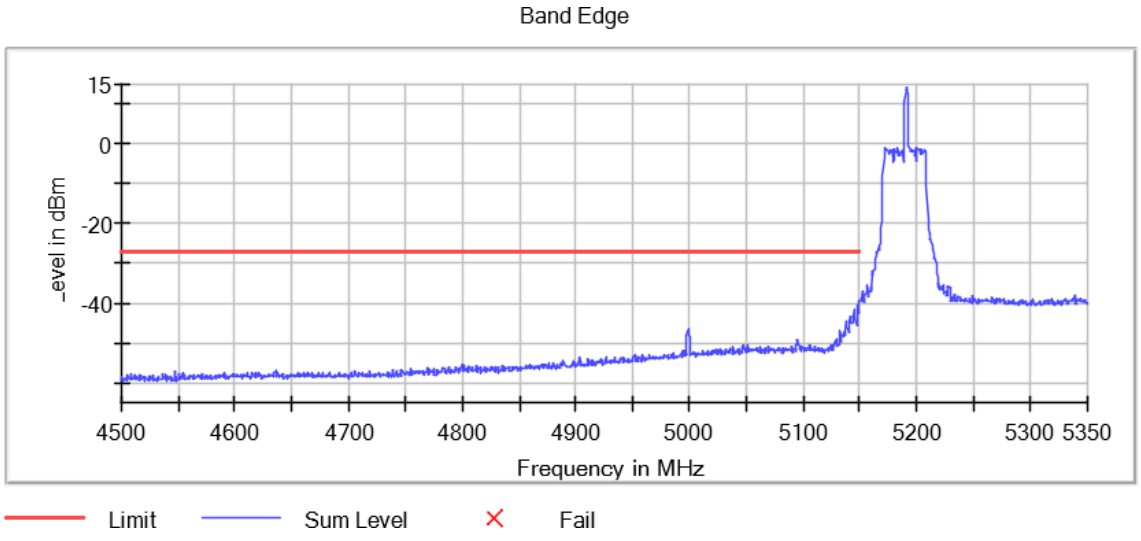
***Verdict***

Pass

***Attachments***

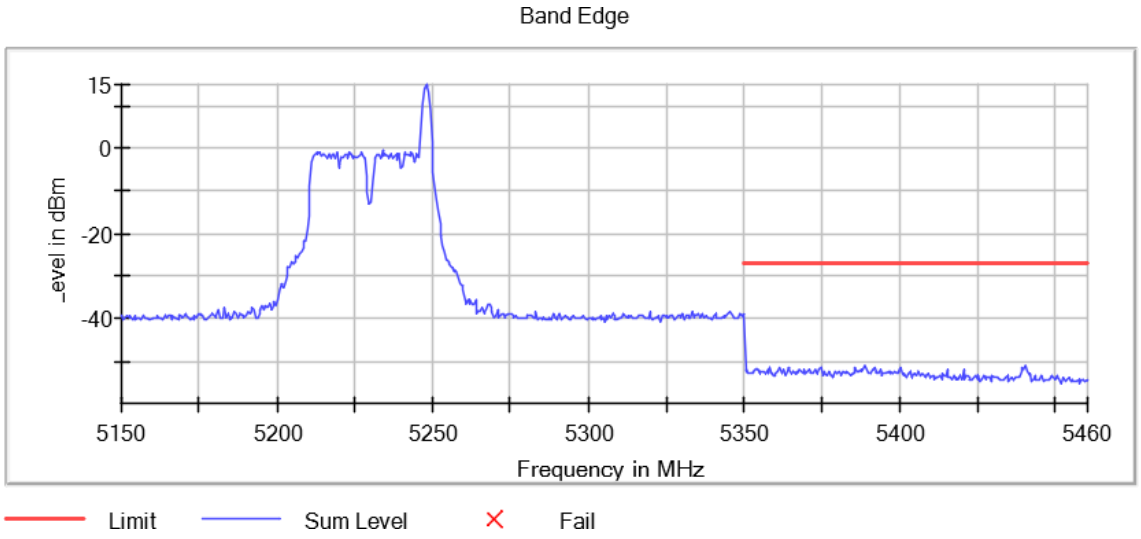
**Active Port = 2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



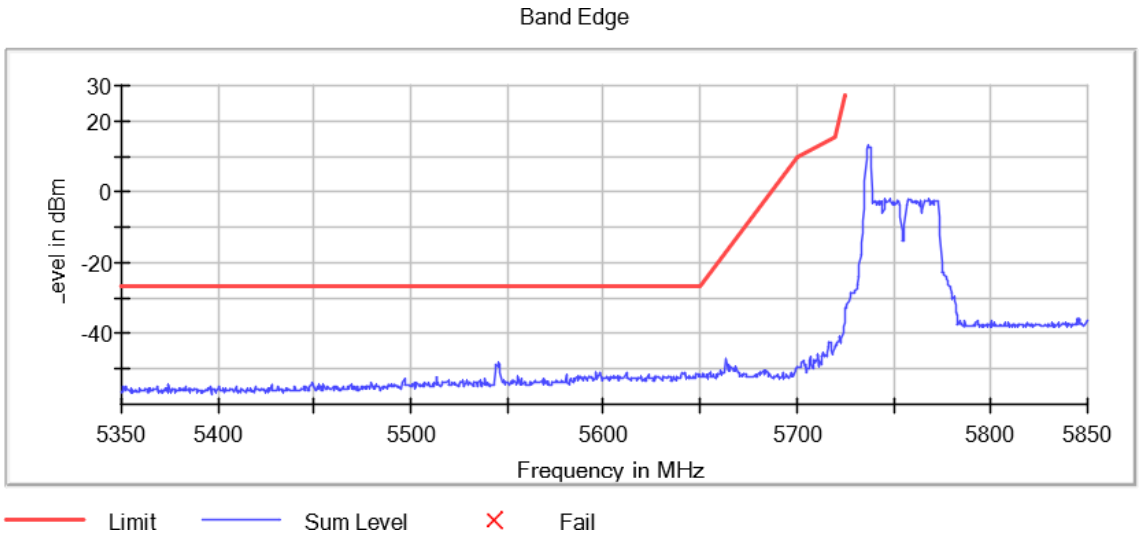
**Active Port = 2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

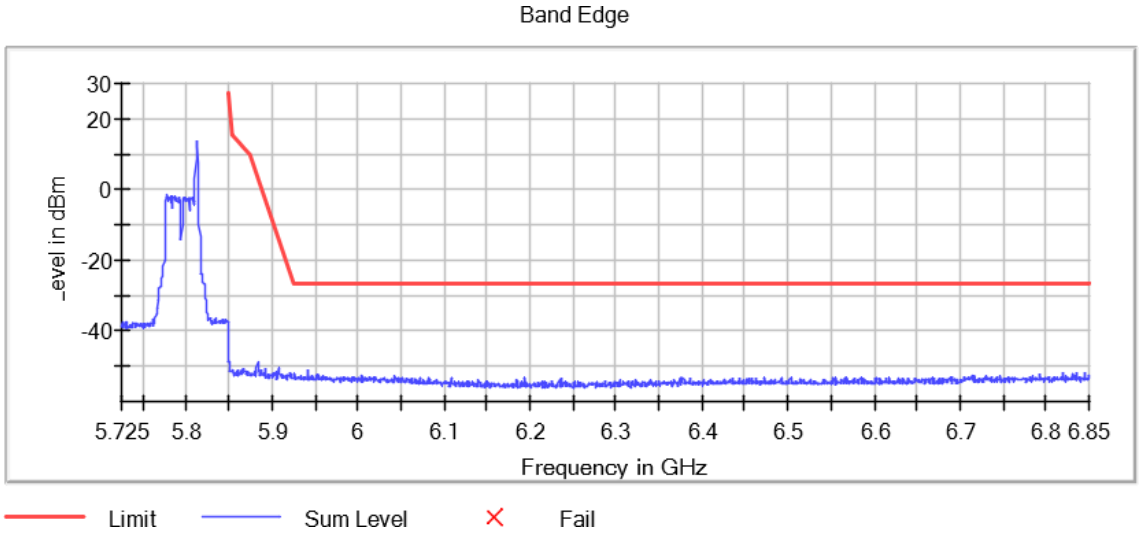



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE80 SS1 (OFDM MCS0) – Full RU

***Results***

DUT Frequency: 5210 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.250000 | -39.3 | 12.3 | -27.0 | PASS |
| 5149.750000 | -39.5 | 12.5 | -27.0 | PASS |
| 5146.750000 | -40.6 | 13.6 | -27.0 | PASS |
| 5148.250000 | -41.1 | 14.1 | -27.0 | PASS |
| 5147.250000 | -41.8 | 14.8 | -27.0 | PASS |
| 5145.750000 | -42.4 | 15.4 | -27.0 | PASS |
| 5145.250000 | -42.7 | 15.7 | -27.0 | PASS |
| 5147.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5143.250000 | -43.1 | 16.1 | -27.0 | PASS |
| 5146.250000 | -43.2 | 16.2 | -27.0 | PASS |
| 5142.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5148.750000 | -43.5 | 16.5 | -27.0 | PASS |
| 5144.250000 | -44.0 | 17.0 | -27.0 | PASS |
| 5140.250000 | -45.4 | 18.4 | -27.0 | PASS |
| 5098.750000 | -45.4 | 18.4 | -27.0 | PASS |

DUT Frequency: 5775 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.250000 | -39.3 | 12.3 | -27.0 | PASS |
| 5149.750000 | -39.5 | 12.5 | -27.0 | PASS |
| 5146.750000 | -40.6 | 13.6 | -27.0 | PASS |
| 5148.250000 | -41.1 | 14.1 | -27.0 | PASS |
| 5147.250000 | -41.8 | 14.8 | -27.0 | PASS |
| 5145.750000 | -42.4 | 15.4 | -27.0 | PASS |
| 5145.250000 | -42.7 | 15.7 | -27.0 | PASS |
| 5147.750000 | -42.7 | 15.7 | -27.0 | PASS |
| 5143.250000 | -43.1 | 16.1 | -27.0 | PASS |
| 5146.250000 | -43.2 | 16.2 | -27.0 | PASS |
| 5142.750000 | -43.4 | 16.4 | -27.0 | PASS |
| 5148.750000 | -43.5 | 16.5 | -27.0 | PASS |
| 5144.250000 | -44.0 | 17.0 | -27.0 | PASS |
| 5140.250000 | -45.4 | 18.4 | -27.0 | PASS |
| 5098.750000 | -45.4 | 18.4 | -27.0 | PASS |

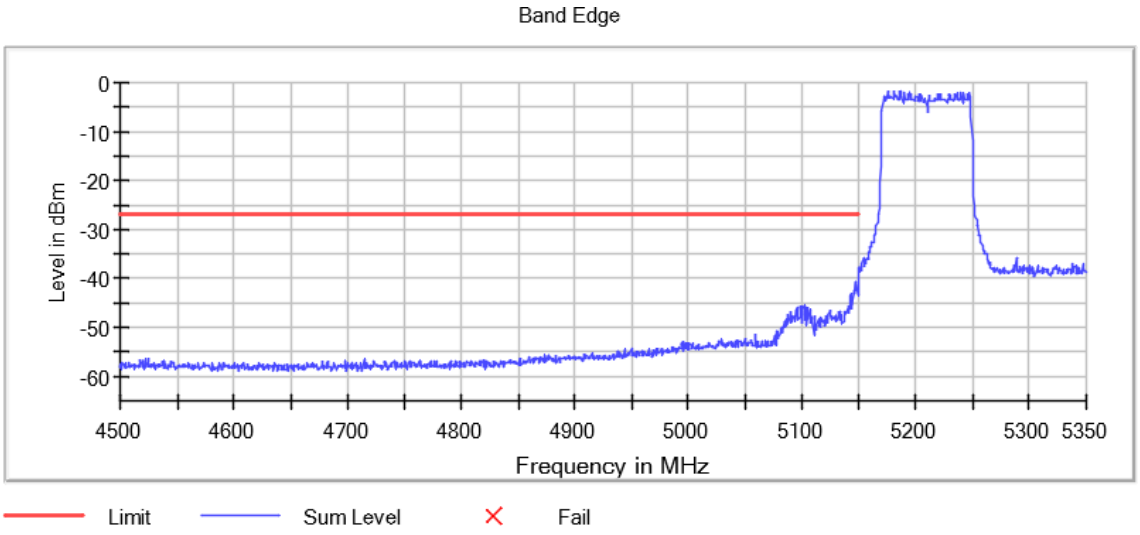
***Verdict***

Pass

***Attachments***

**Active Port = 2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

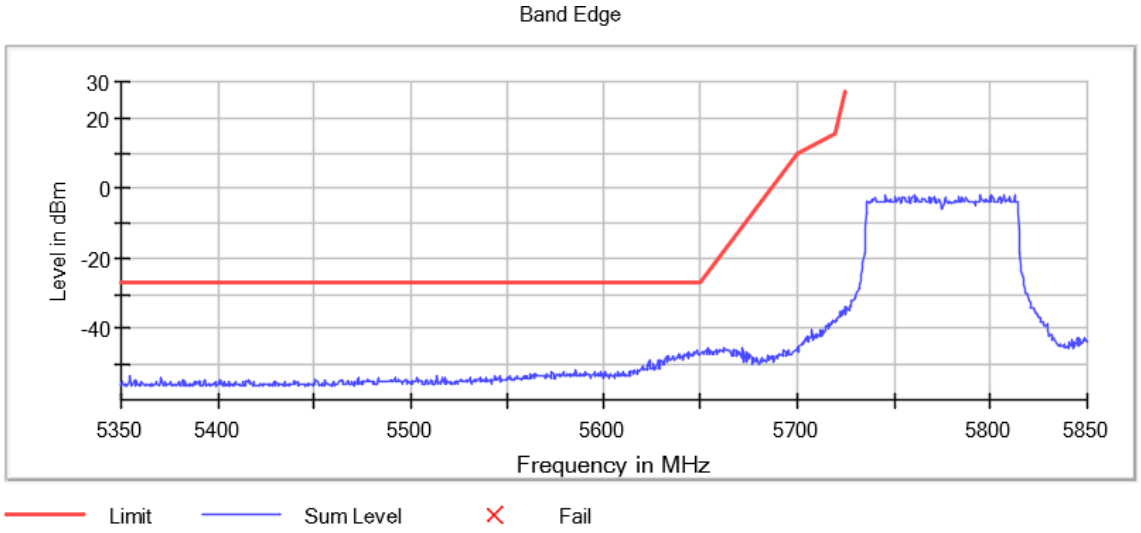



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

Mode: SISO worst

Modulation: 802.11ax HE80 SS1 (OFDMA MCS0) – Partial RU

***Results***

DUT Frequency: 5210 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.250000 | -38.1 | 11.1 | -27.0 | PASS |
| 5149.750000 | -38.3 | 11.3 | -27.0 | PASS |
| 5146.750000 | -38.9 | 11.9 | -27.0 | PASS |
| 5148.250000 | -38.9 | 11.9 | -27.0 | PASS |
| 5145.750000 | -39.3 | 12.3 | -27.0 | PASS |
| 5147.750000 | -39.8 | 12.8 | -27.0 | PASS |
| 5147.250000 | -40.1 | 13.1 | -27.0 | PASS |
| 5145.250000 | -40.3 | 13.3 | -27.0 | PASS |
| 5148.750000 | -41.1 | 14.1 | -27.0 | PASS |
| 5144.250000 | -41.2 | 14.2 | -27.0 | PASS |
| 5142.750000 | -41.6 | 14.6 | -27.0 | PASS |
| 5141.250000 | -41.7 | 14.7 | -27.0 | PASS |
| 5146.250000 | -41.9 | 14.9 | -27.0 | PASS |
| 5143.750000 | -41.9 | 14.9 | -27.0 | PASS |
| 5143.250000 | -41.9 | 14.9 | -27.0 | PASS |

DUT Frequency: 5775 MHz

| Frequency(MHz) | Level(dBm) | Margin(dB) | Limit(dBm) | Result |
|---|---|---|---|---|
| 5149.250000 | -38.1 | 11.1 | -27.0 | PASS |
| 5149.750000 | -38.3 | 11.3 | -27.0 | PASS |
| 5146.750000 | -38.9 | 11.9 | -27.0 | PASS |
| 5148.250000 | -38.9 | 11.9 | -27.0 | PASS |
| 5145.750000 | -39.3 | 12.3 | -27.0 | PASS |
| 5147.750000 | -39.8 | 12.8 | -27.0 | PASS |
| 5147.250000 | -40.1 | 13.1 | -27.0 | PASS |
| 5145.250000 | -40.3 | 13.3 | -27.0 | PASS |
| 5148.750000 | -41.1 | 14.1 | -27.0 | PASS |
| 5144.250000 | -41.2 | 14.2 | -27.0 | PASS |
| 5142.750000 | -41.6 | 14.6 | -27.0 | PASS |
| 5141.250000 | -41.7 | 14.7 | -27.0 | PASS |
| 5146.250000 | -41.9 | 14.9 | -27.0 | PASS |
| 5143.750000 | -41.9 | 14.9 | -27.0 | PASS |
| 5143.250000 | -41.9 | 14.9 | -27.0 | PASS |

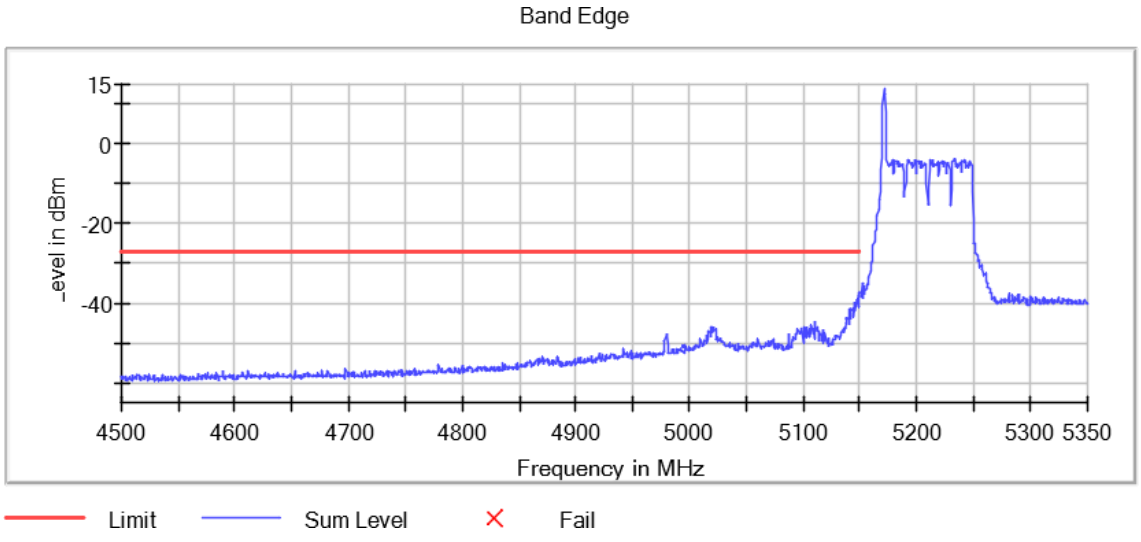
***Verdict***

Pass

***Attachments***

**Active Port = 2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDMA MCS0), MIMO Mode = SISO, Measurement Point = 1**

**Images:**

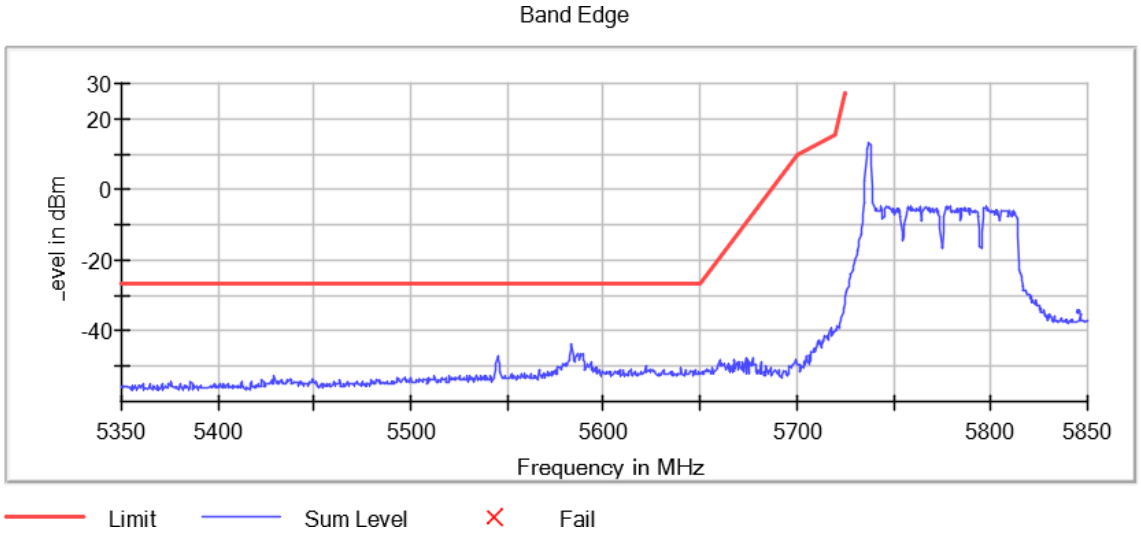



**Table:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | Please see the plots | |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | ~ 2000 | ~ 2000 |
| Sweeptime | 130.000 ms | AUTO |
| Reference Level | -20.000 dBm | -20.000 dBm |
| Attenuation | 0.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 100 | 100 |
| Filter | Channel | Channel |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 150 | max. 150 |
| Stable | 3 / 3 | 3 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

## FCC 15.407 (e) / RSS 247 6.2.4.1 6 dB Emission Bandwidth

### Limits

For equipment operating in the band 5725-5850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz.

Mode: SISO worst

Modulation: 802.11a (OFDM 6 Mbit/s)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5745.00000 | 1 | 16.550 |
| 2 | 5785.00000 | 1 | 16.550 |
| 2 | 5825.00000 | 1 | 16.550 |

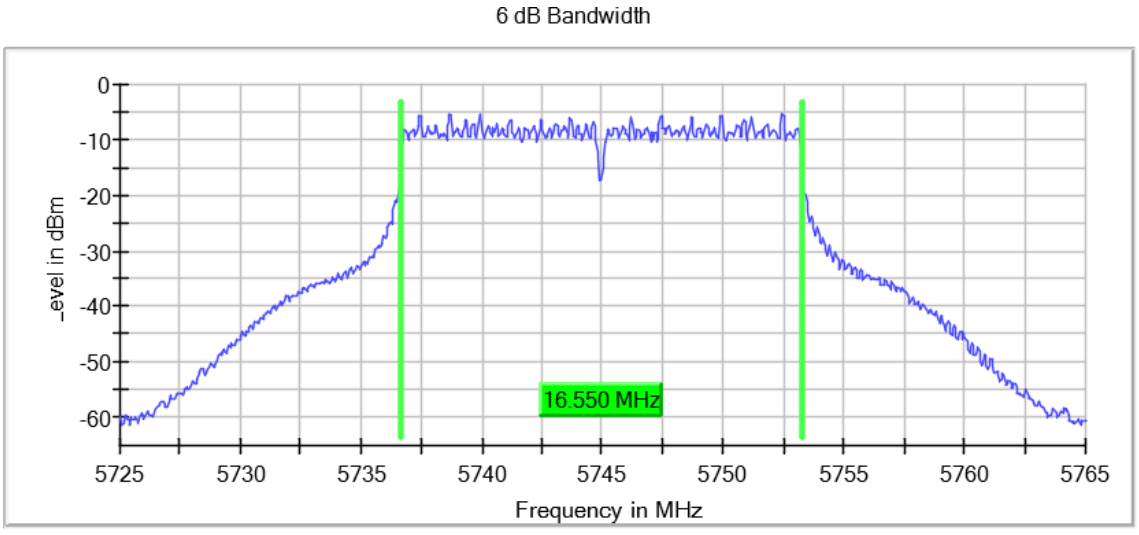
***Verdict***

Pass

***Attachments***

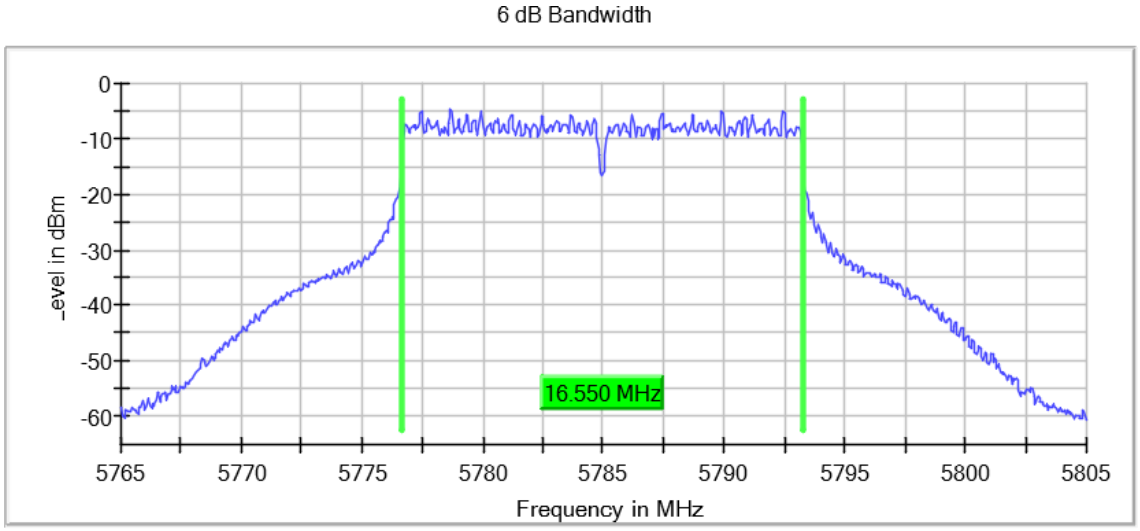
**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



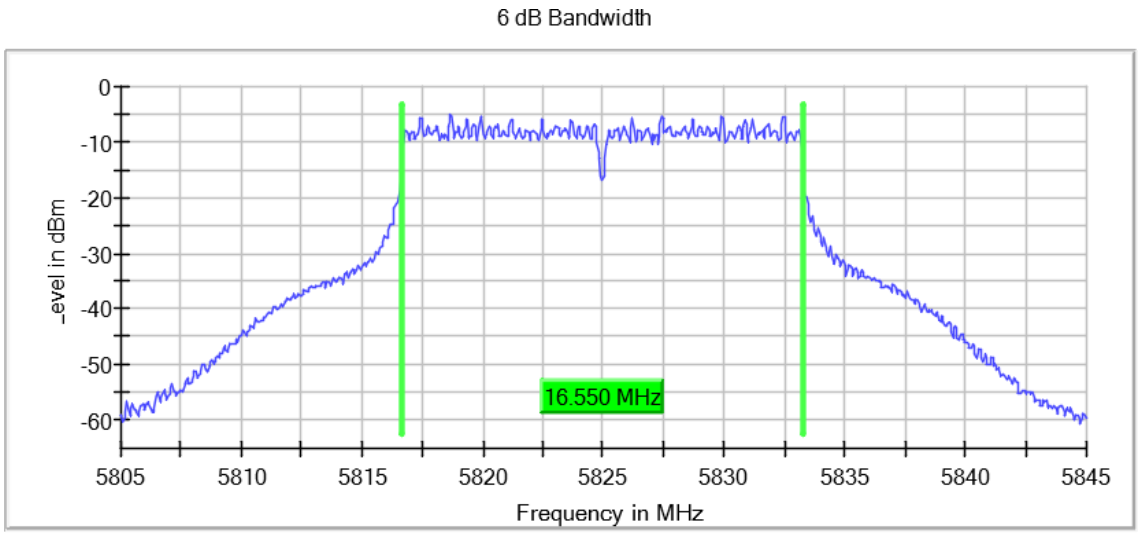
**Active Port = 2, Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 800 | ~ 800 |
| Sweeptime | 1.040 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 54 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.17 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11n HT20 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5745.00000 | 1 | 17.800 |
| 2 | 5785.00000 | 1 | 17.850 |
| 2 | 5825.00000 | 1 | 17.800 |

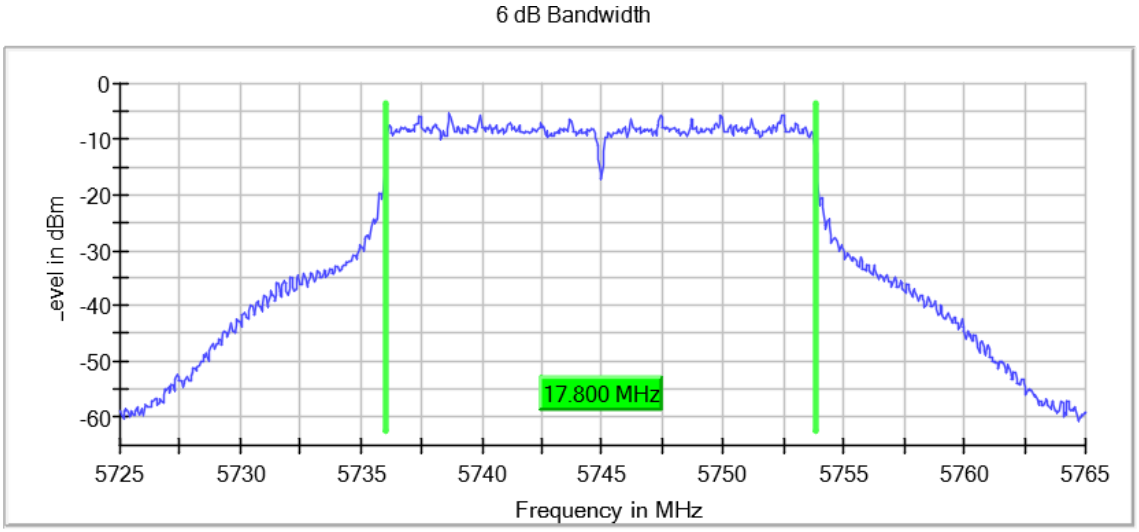
***Verdict***

Pass

***Attachments***

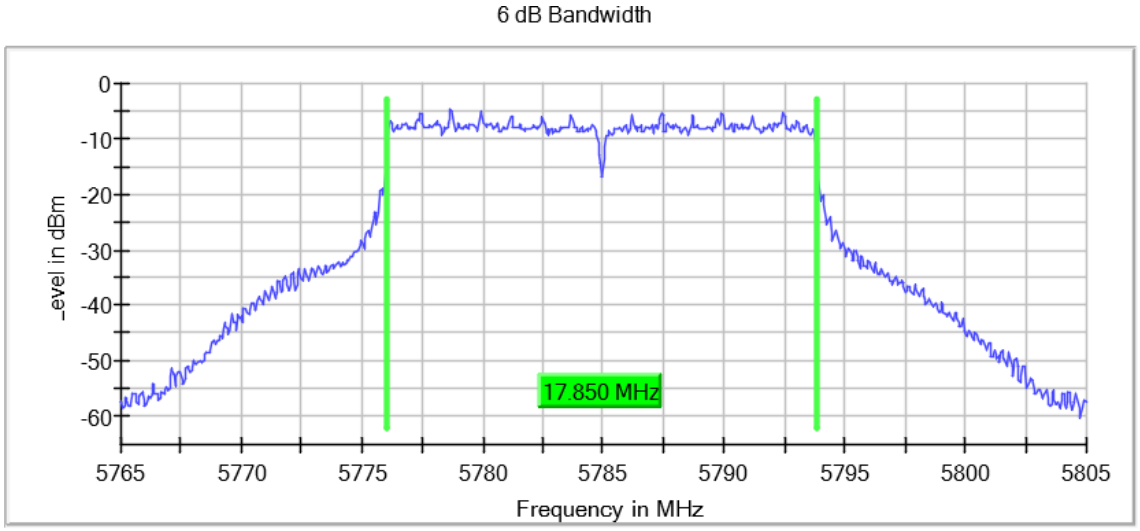
**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



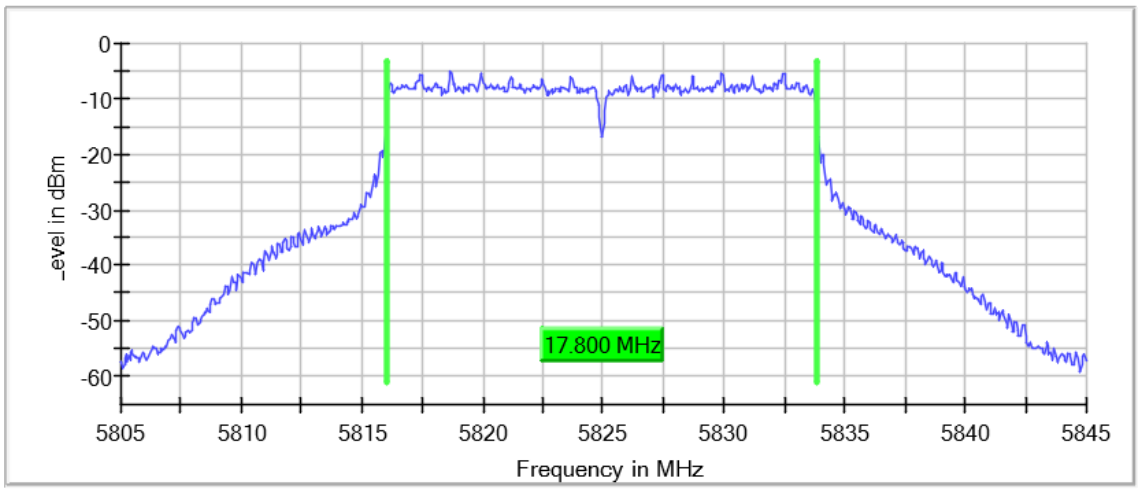
**Active Port = 2, Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 800 | ~ 800 |
| Sweeptime | 1.040 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 69 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.10 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11n HT40 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5755.00000 | 1 | 36.600 |
| 2 | 5795.00000 | 1 | 36.600 |

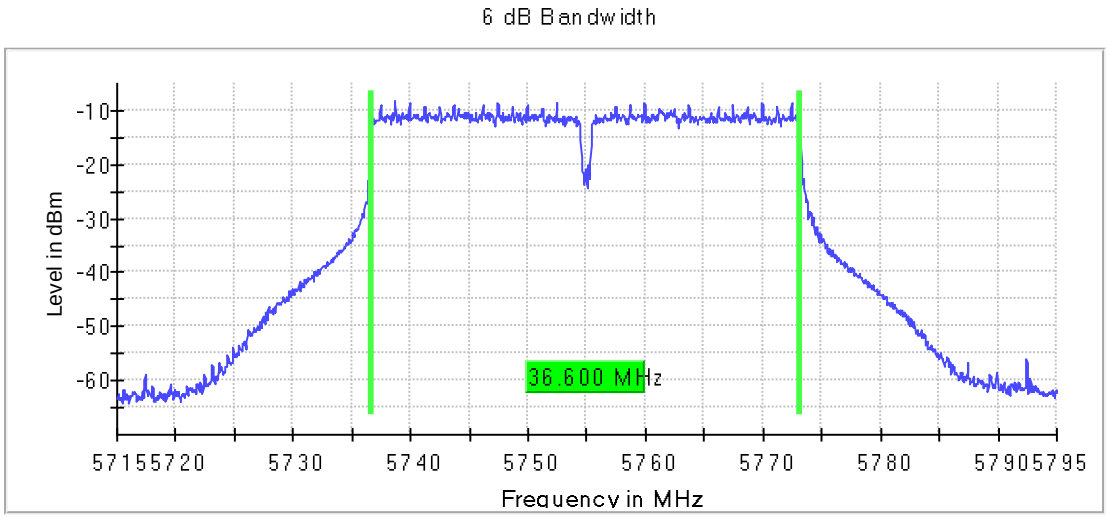
***Verdict***

Pass

***Attachments***

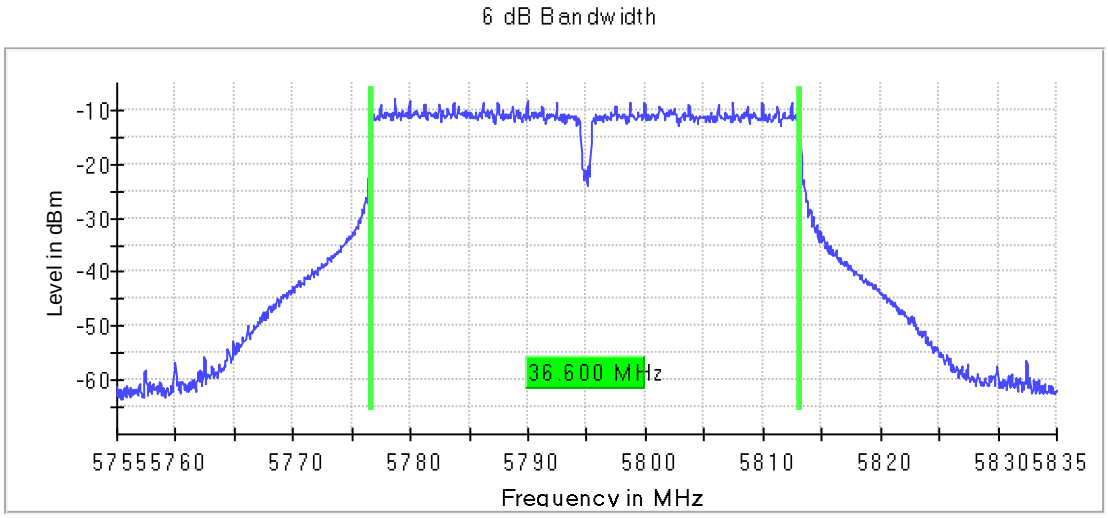
**Active Port = 2, Frequency MHz = 5755.00000, 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 1600 | ~ 1600 |
| Sweeptime | 1.600 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 57 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.29 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5745.00000 | 1 | 16.400 |
| 2 | 5785.00000 | 1 | 16.400 |
| 2 | 5825.00000 | 1 | 16.400 |

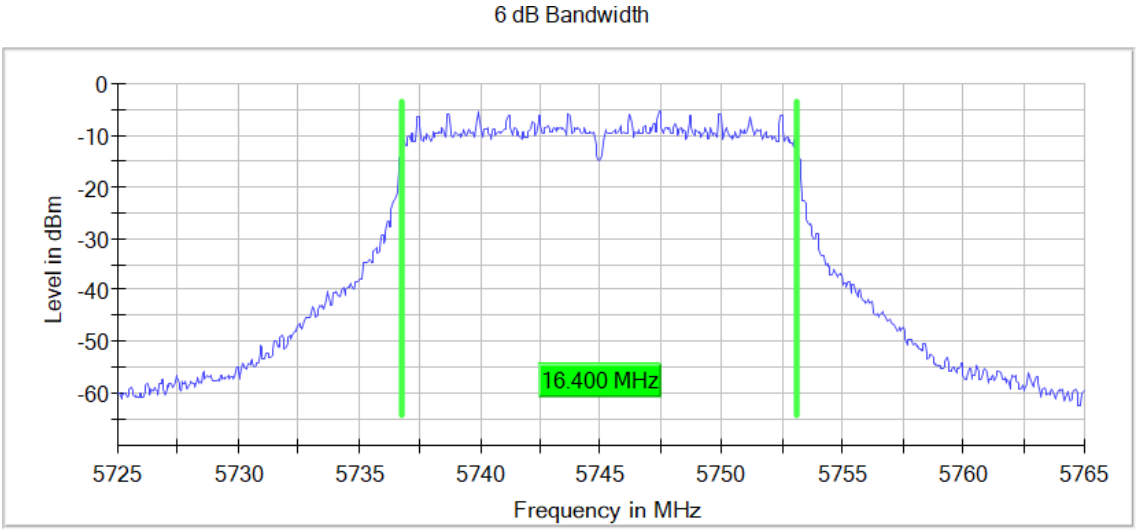
***Verdict***

Pass

**Attachments**

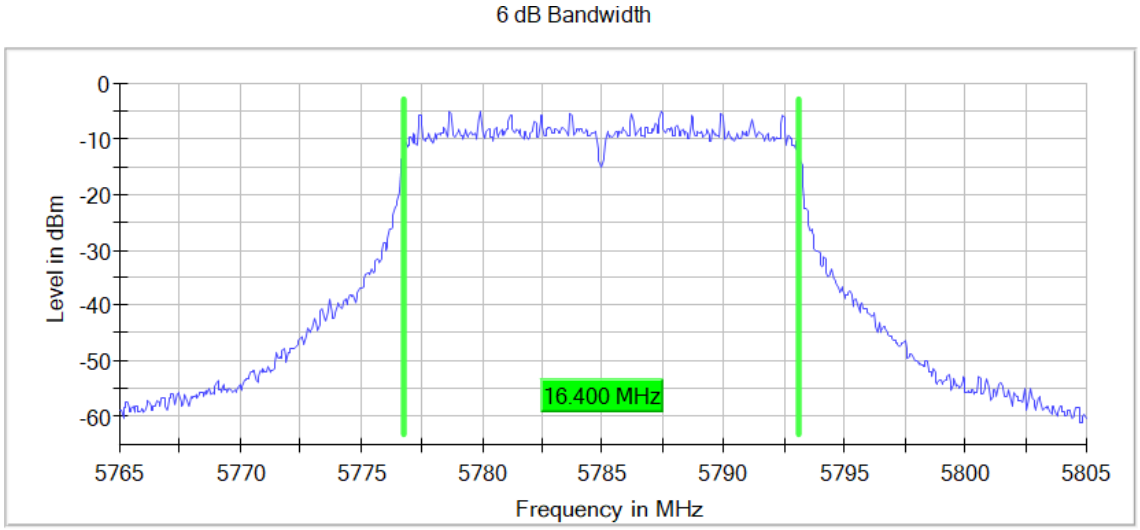
**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



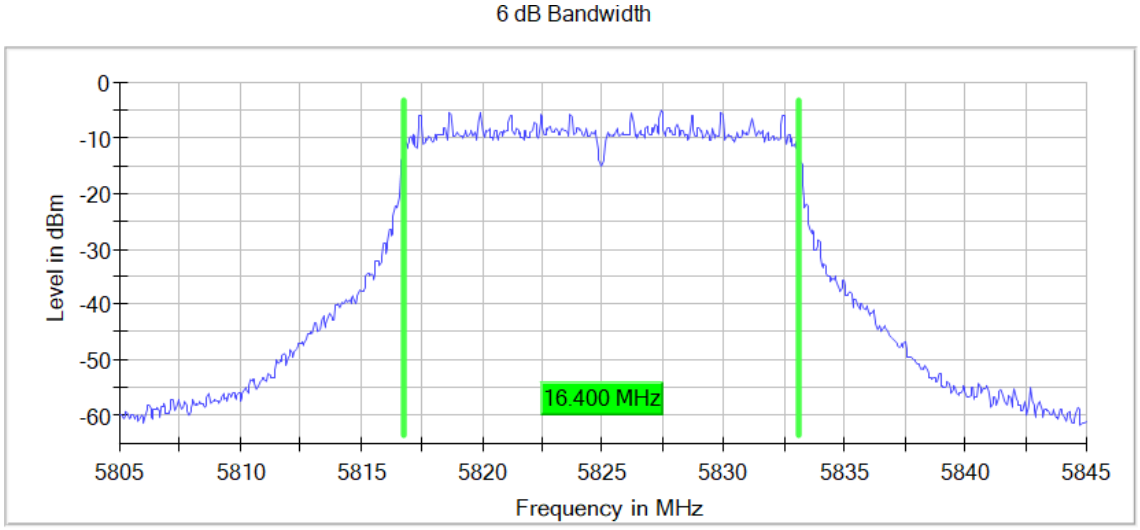
**Active Port = 2, Frequency MHz = 5785.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 800 | ~ 800 |
| Sweeptime | 1.040 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 67 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.11 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5755.00000 | 1 | 36.550 |
| 2 | 5795.00000 | 1 | 36.600 |

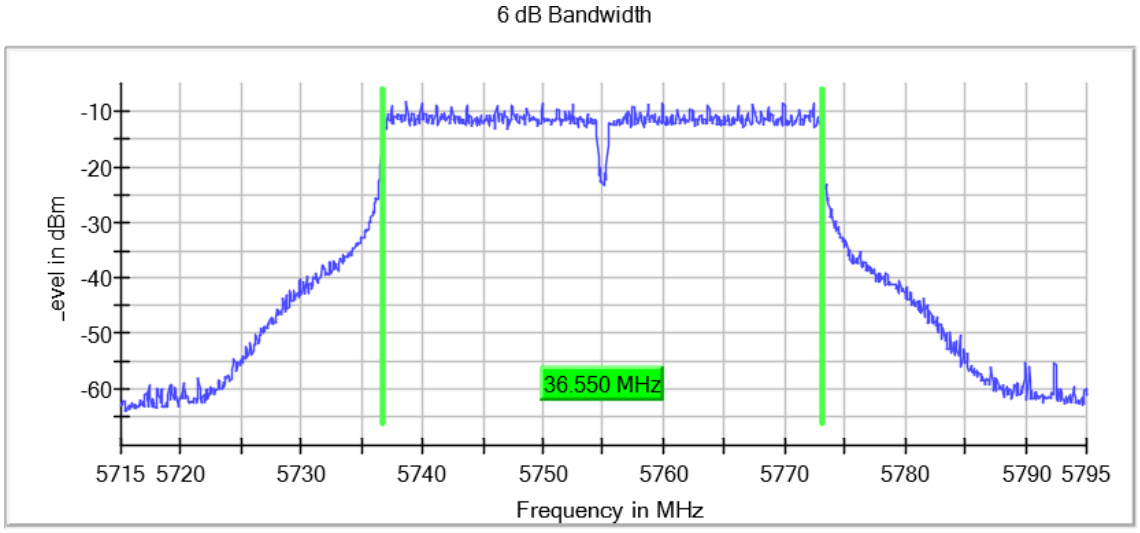
***Verdict***

Pass

***Attachments***

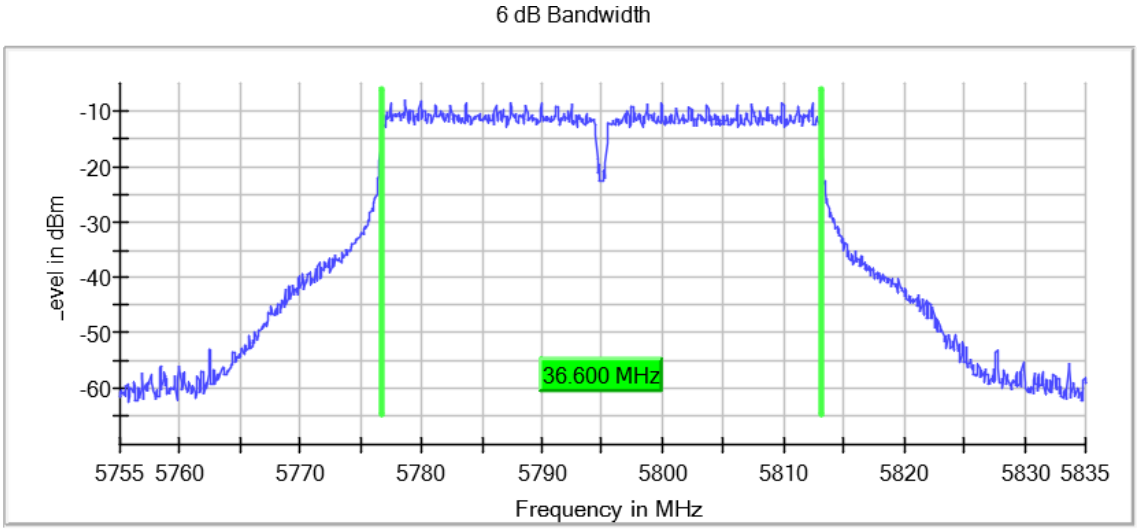
**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 1600 | ~ 1600 |
| Sweeptime | 1.600 ms | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 43 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.23 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5775.00000 | 1 | 76.650 |

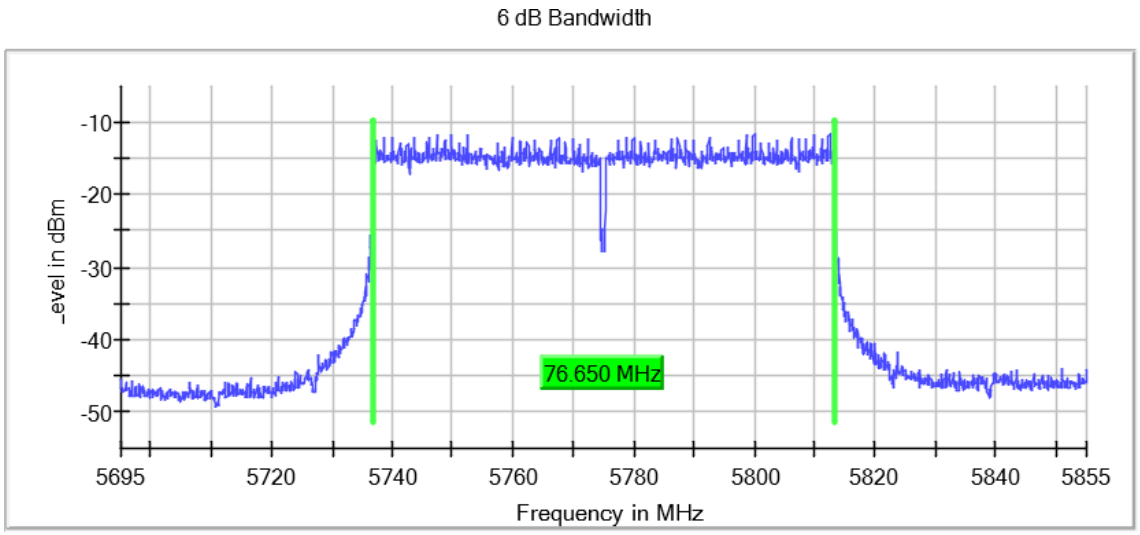
***Verdict***

Pass

***Attachments***

**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 160.000 MHz | 160.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 3200 | ~ 3200 |
| Sweeptime | 189.453 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 76 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.13 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE20 (OFDMA MCS0) – Full RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5745.00000 | 1 | 19.150 |
| 2 | 5785.00000 | 1 | 16.550 |
| 2 | 5825.00000 | 1 | 19.200 |

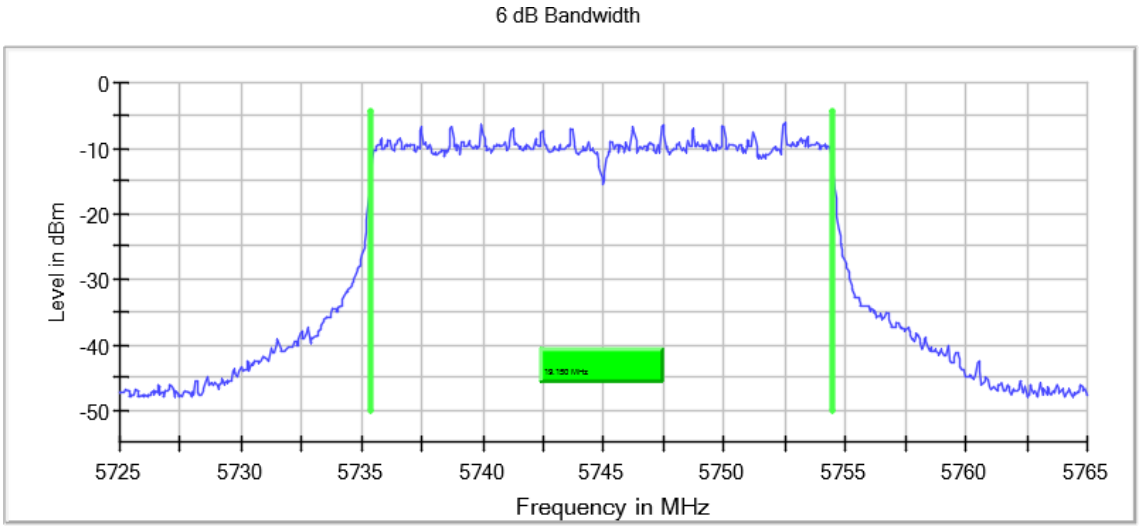
***Verdict***

Pass

***Attachments***

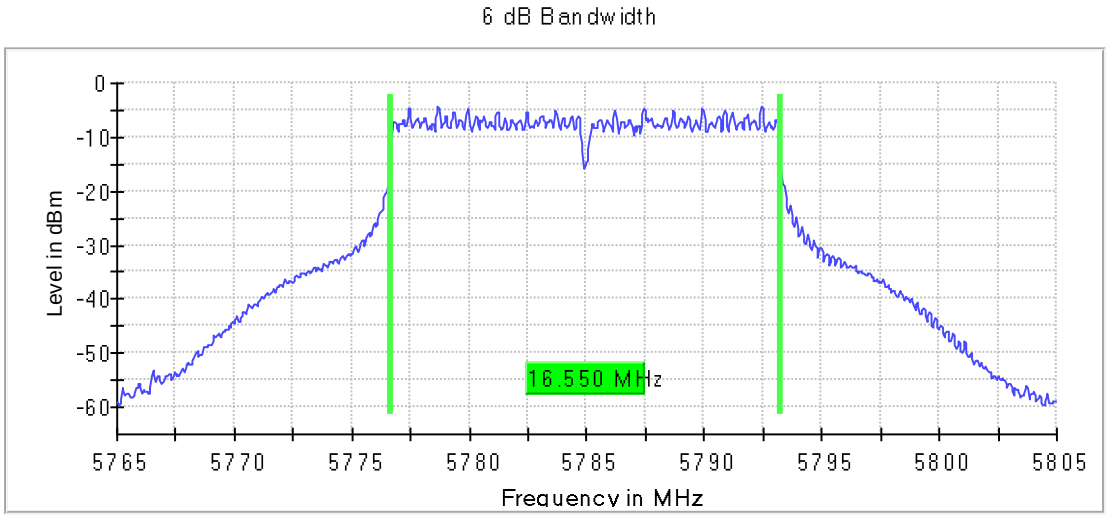
**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



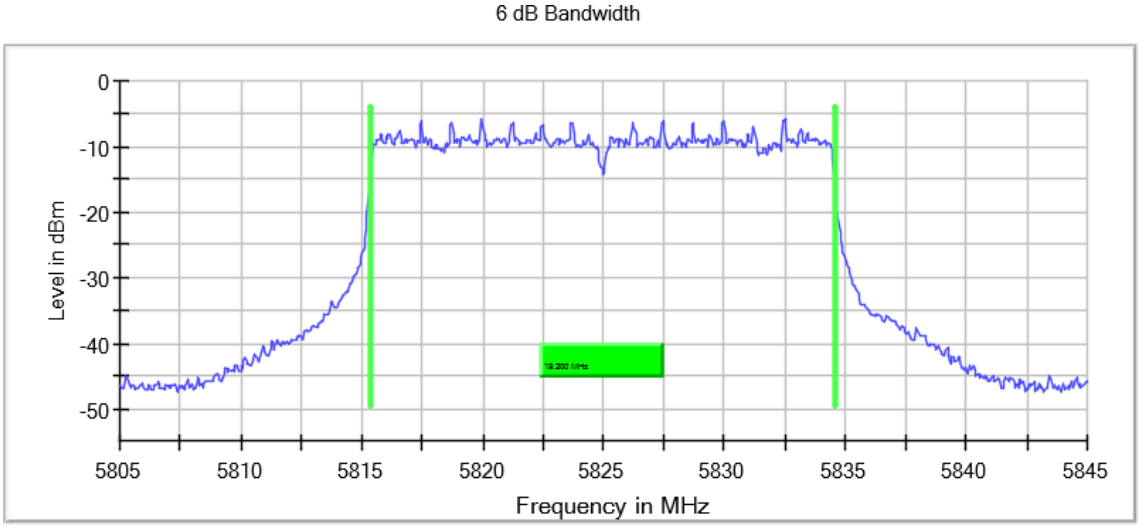
**Active Port = 2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 800 | ~ 800 |
| Sweeptime | 56.836 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 47 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.30 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE20 (OFDMA MCS0) – Partial RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5745.00000 | 1 | 2.150 |
| 2 | 5785.00000 | 1 | 7.700 |
| 2 | 5825.00000 | 1 | 2.200 |

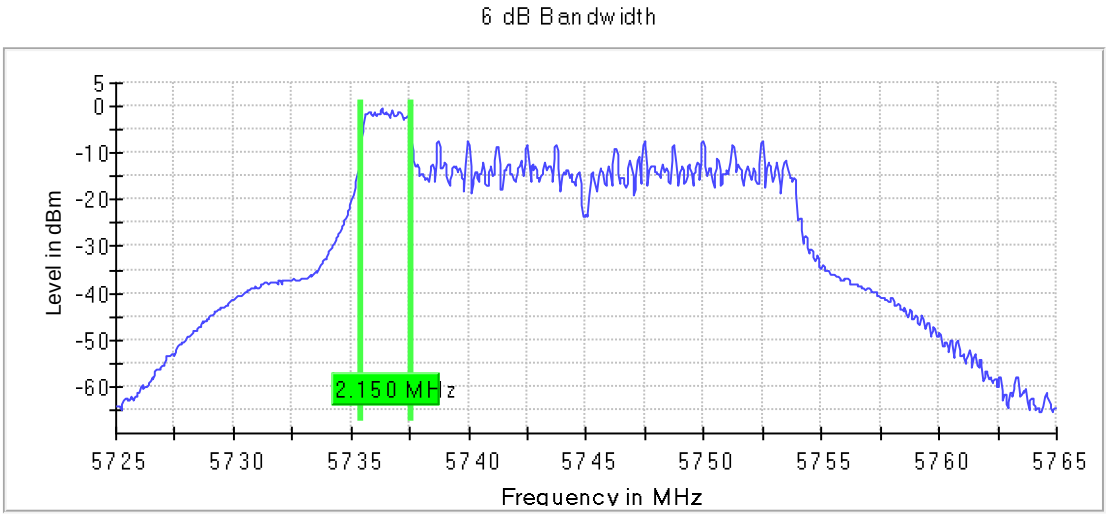
***Verdict***

Pass

***Attachments***

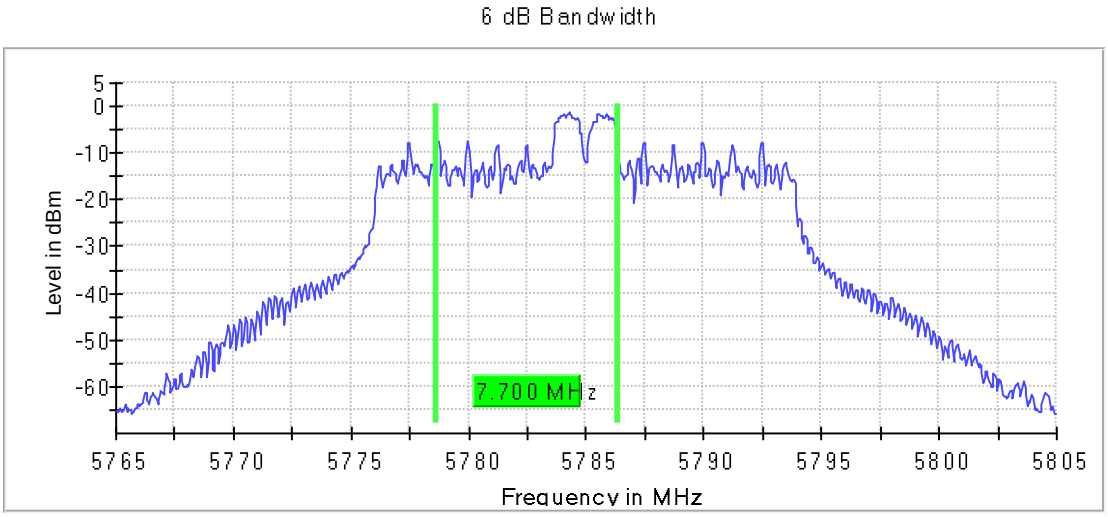
**Active Port = 2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



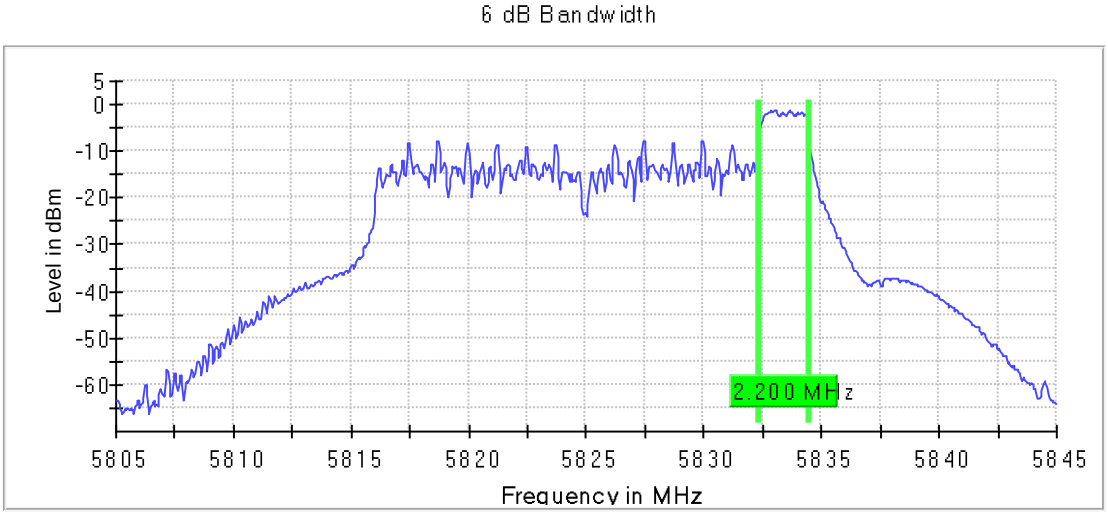
**Active Port = 2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Active Port = 2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 800 | ~ 800 |
| Sweeptime | 56.836 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 47 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.30 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0) – Full RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5755.00000 | 1 | 38.300 |
| 2 | 5795.00000 | 1 | 38.350 |

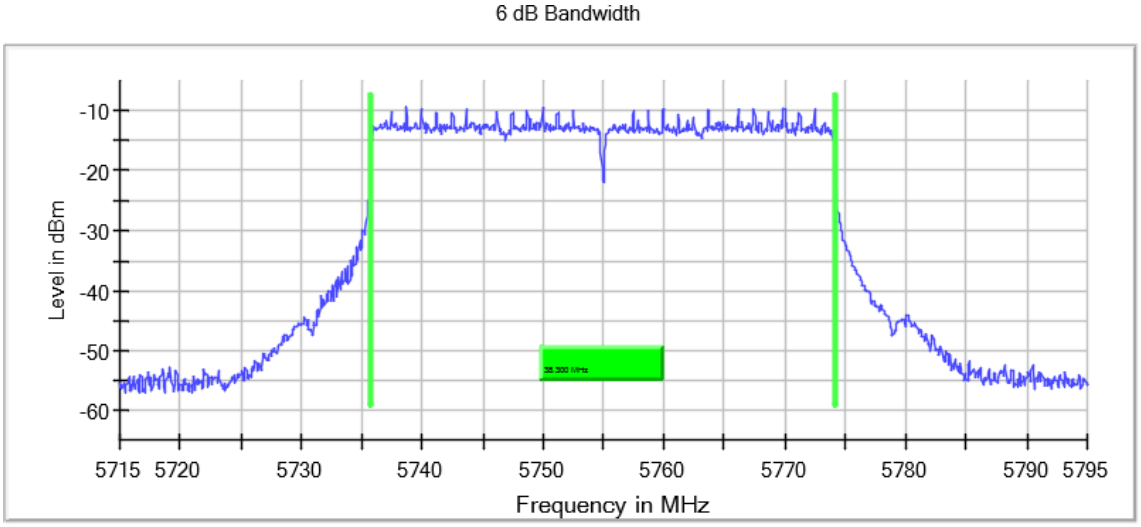
***Verdict***

Pass

***Attachments***

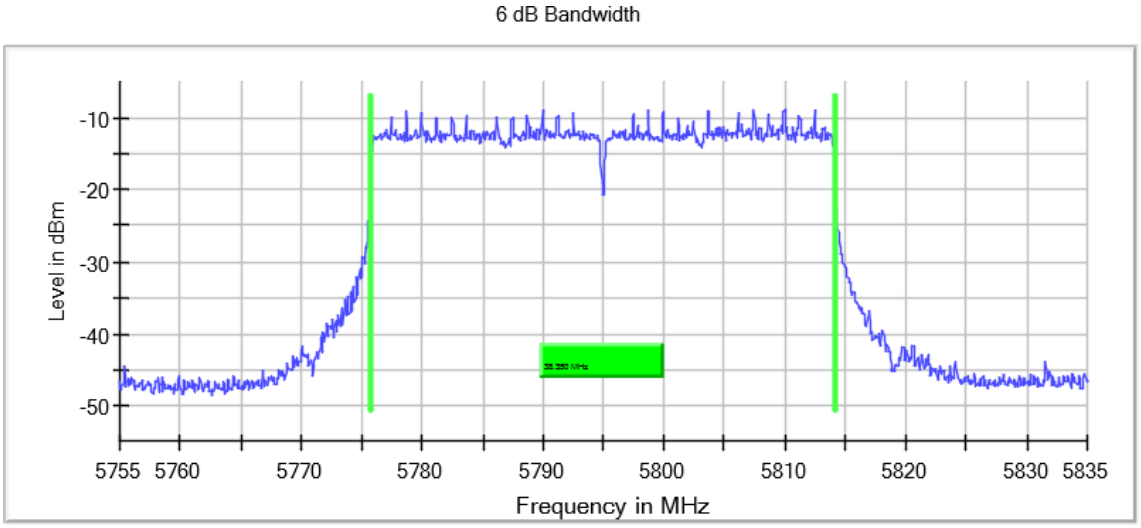
**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 1600 | ~ 1600 |
| Sweeptime | 94.727 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 52 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.21 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0) – Partial RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 2 | 5755.00000 | 1 | 2.10 |
| 2 | 5795.00000 | 1 | 2.15 |

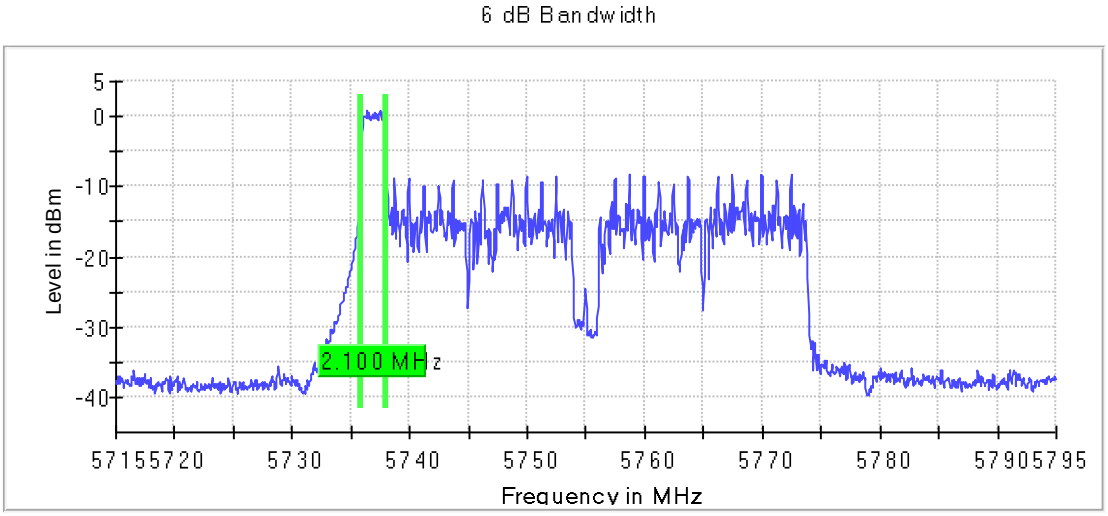
***Verdict***

Pass

***Attachments***

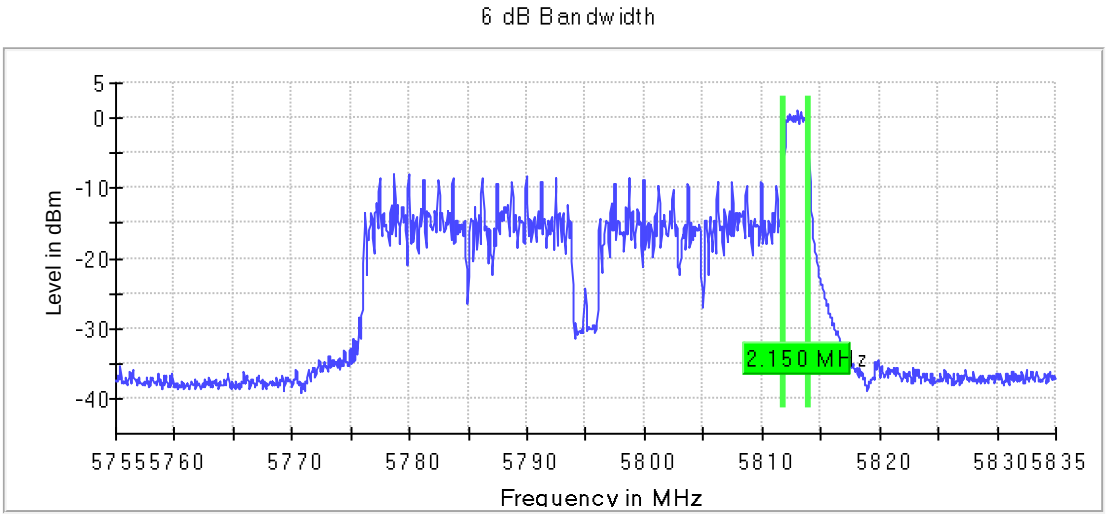
**Active Port = 2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Active Port = 2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 1600 | ~ 1600 |
| Sweeptime | 94.727 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 52 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.21 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE80 SS1 (OFDM MCS0) – Full RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 1 | 5775.00000 | 1 | 78.250 |

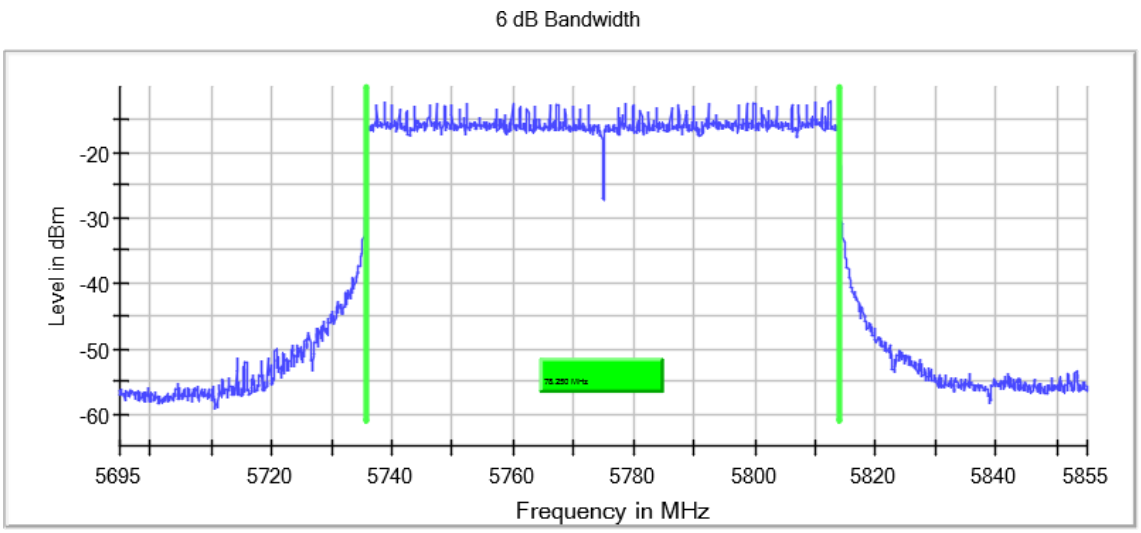
***Verdict***

Pass

***Attachments***

**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 160.000 MHz | 160.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 3200 | ~ 3200 |
| Sweeptime | 189.453 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 70 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.15 dB | 0.30 dB |

Mode: SISO worst

Modulation: 802.11ax HE80 SS1 (OFDM MCS0) – Partial RU

***Results***

| Port | Freq (MHz) | # of Tx Chains | 6dB BW (MHz) |
|---|---|---|---|
| 1 | 5775.00000 | 1 | 2.100 |

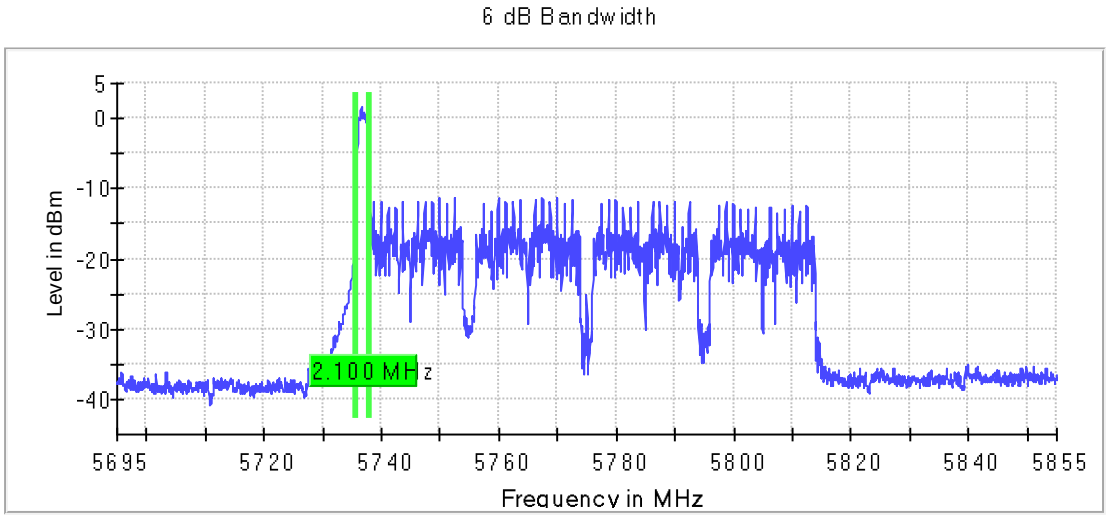
***Verdict***

Pass

***Attachments***

**Active Port = 2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), MIMO Mode = SISO, Number of Transmission Chains = 1**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 160.000 MHz | 160.000 MHz |
| RBW | 100.000 kHz | ~ 100.000 kHz |
| VBW | 300.000 kHz | ~ 300.000 kHz |
| SweepPoints | 3200 | ~ 3200 |
| Sweeptime | 189.453 µs | AUTO |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | MaxPeak | MaxPeak |
| SweepCount | 200 | 200 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | FFT | AUTO |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.30 dB | 0.30 dB |
| Run | 70 / max. 150 | max. 150 |
| Stable | 5 / 5 | 5 |
| Max Stable Difference | 0.15 dB | 0.30 dB |

# Appendix B.2: MIMO

# TEST CASES DETAILS

## FCC 15.407 (a) / RSS-247 6.2 Power Limits. Maximum Output Power

**Limits**

FCC 15.407:

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. 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.

For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. 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.

RSS-247:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or 1.76 + 10 log10B, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For devices other than devices installed in vehicles:

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz, 5.470-5.6 GHz, and 5.650-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (24 dBm) or 11 + 10 log10B, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log10B, dBm, whichever is less

For the band 5.725-5.850 GHz, the maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note:

1- The maximum conducted output power was measured using the method according to clause E) 3) b) (Method PM-G) of 789033 D02 General UNII Test Procedures New Rules v02r01.

2- The e.i.r.p. levels are calculated by adding the declared maximum antenna gain (dBi).

3- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)i), directional gain for power measurements: was calculated as follows:

Directional gain $_{POWER}$ = $G_{ANT}$ dBi ($N_{ANT}$ < 4)

Directional gain $_{POWER}$ = $G_{ANT}$ =+ 5 dBi

Power Antenna Gain MIMO Chain 0 & 1: + 5 dBi

For MIMO CDD operation modes, the limit should be reduced by the amount in dB the antenna gain exceeds 6 dBi. In this case the limit is not reduced due to the antenna gain calculations is 5 dBi.

4- For all operation modes, the antenna gain is less than 6 dBi.

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11a (OFDM 6 Mbit/s)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 8.5 | 13.5 |
| 1+2 | 5200.00000 | No | 2 | 8.7 | 13.7 |
| 1+2 | 5240.00000 | No | 2 | 8.8 | 13.8 |
| 1+2 | 5745.00000 | No | 2 | 7 | 12.0 |
| 1+2 | 5785.00000 | No | 2 | 7.2 | 12.2 |
| 1+2 | 5825.00000 | No | 2 | 7.1 | 12.1 |

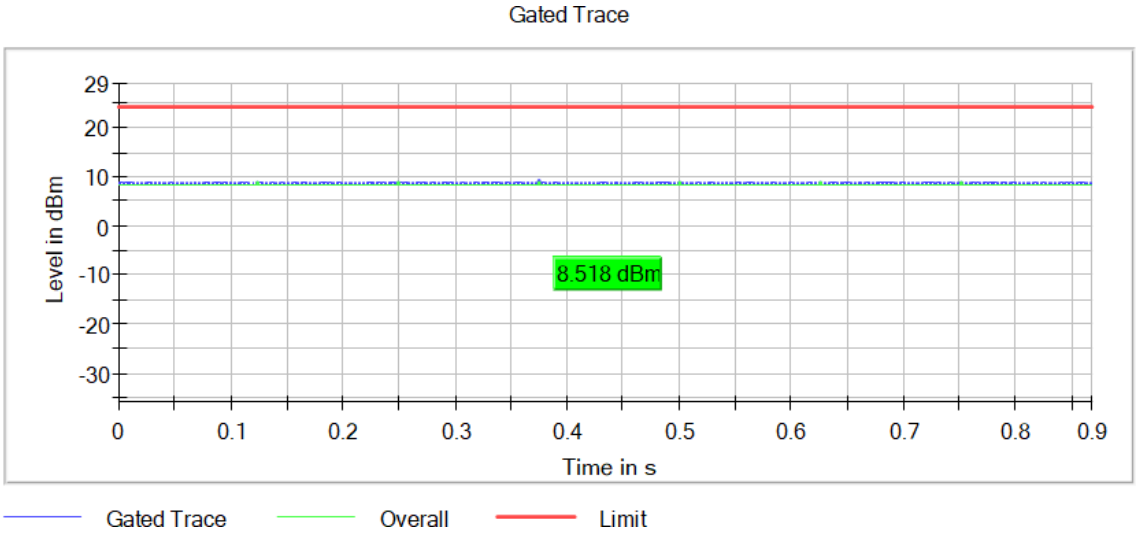
***Verdict***

Pass

***Attachments***

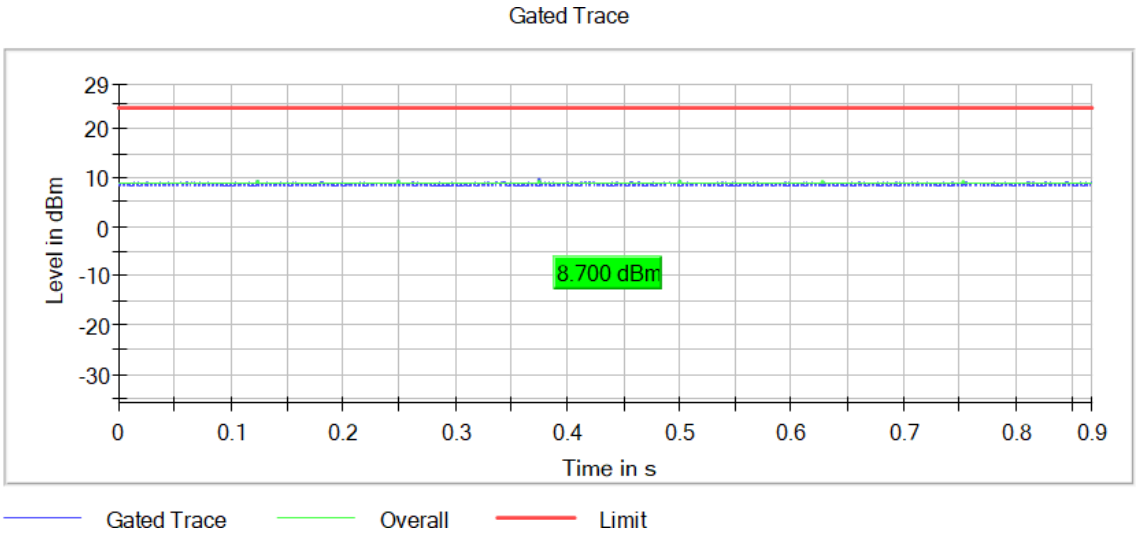
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



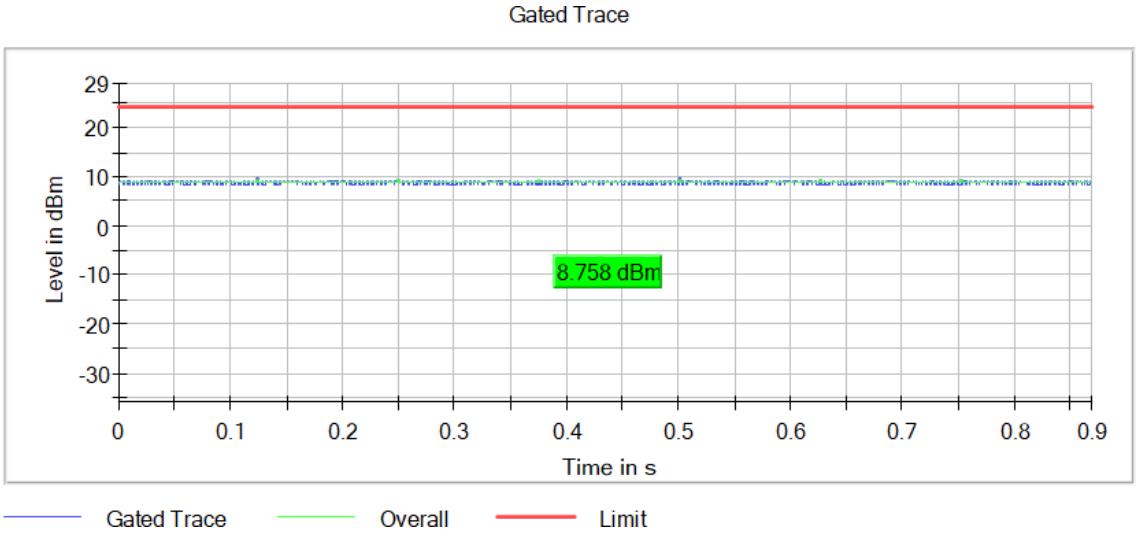

**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



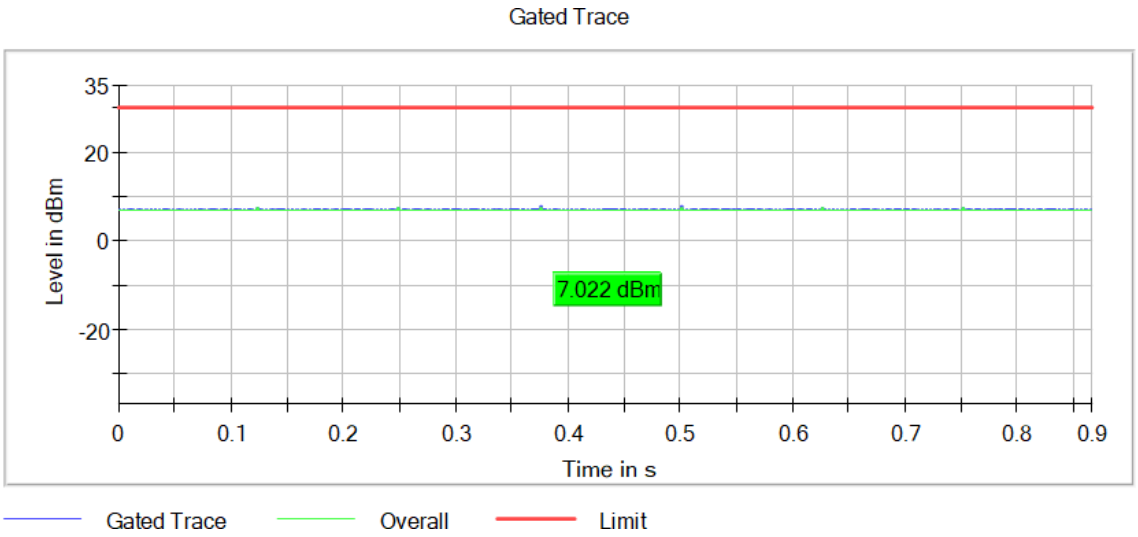
**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



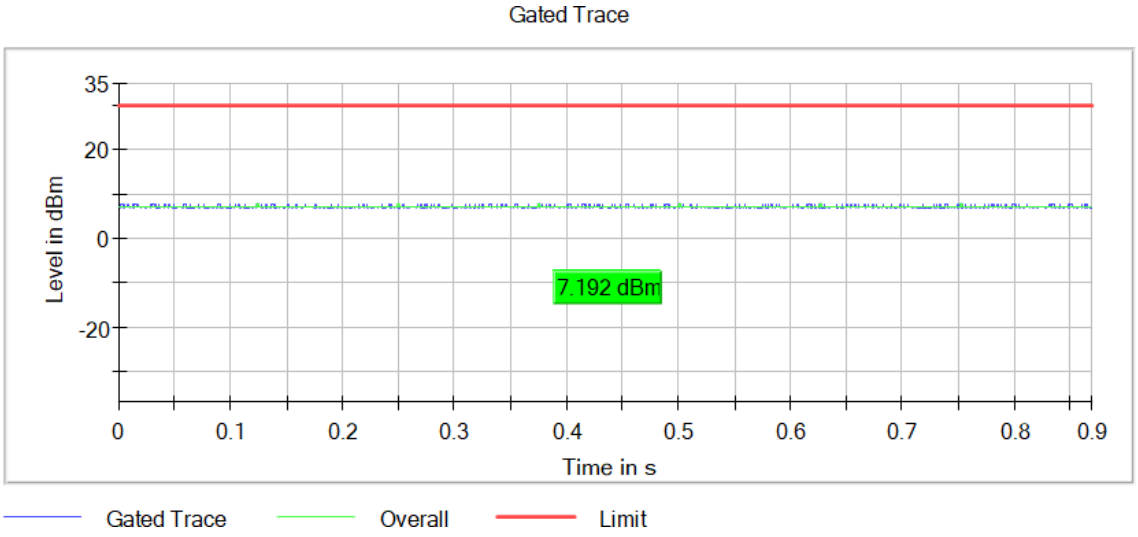

**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



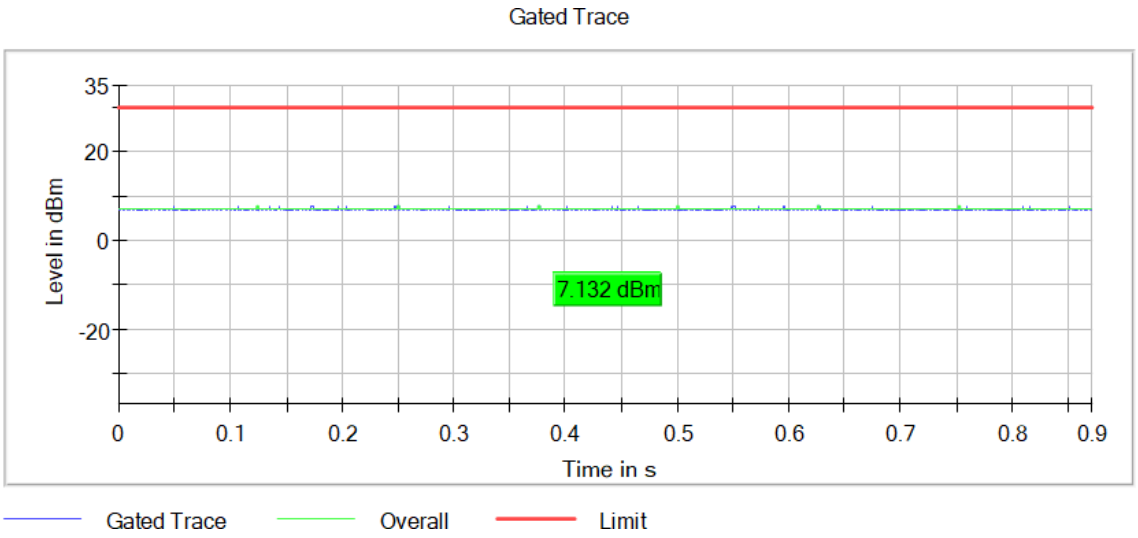
**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 7.8 | 12.8 |
| 1+2 | 5200.00000 | No | 2 | 7.7 | 12.7 |
| 1+2 | 5240.00000 | No | 2 | 7.9 | 12.9 |
| 1+2 | 5745.00000 | No | 2 | 6.2 | 11.2 |
| 1+2 | 5785.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5825.00000 | No | 2 | 6.2 | 11.2 |

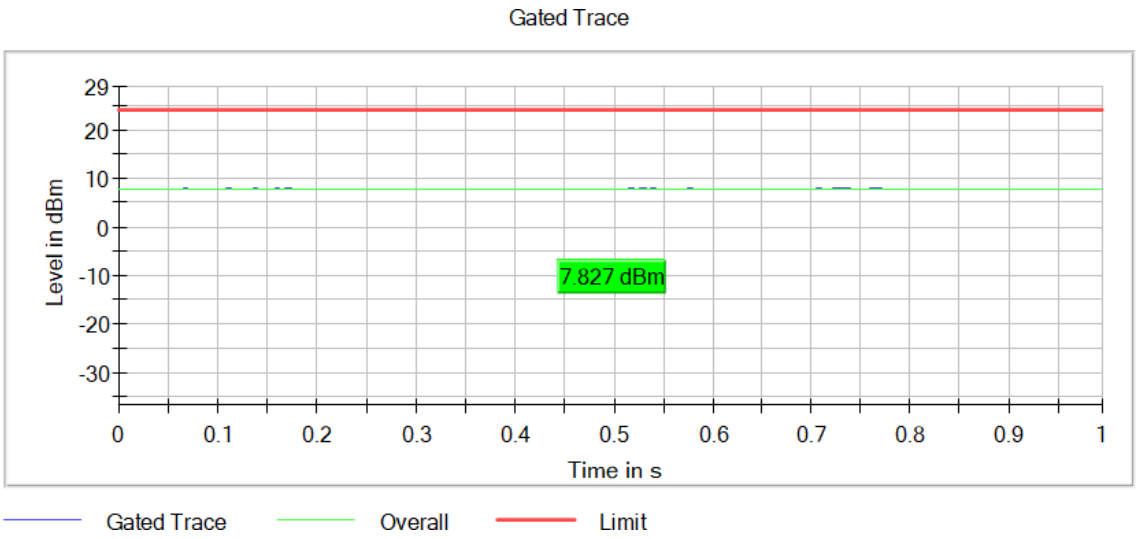
***Verdict***

Pass

***Attachments***

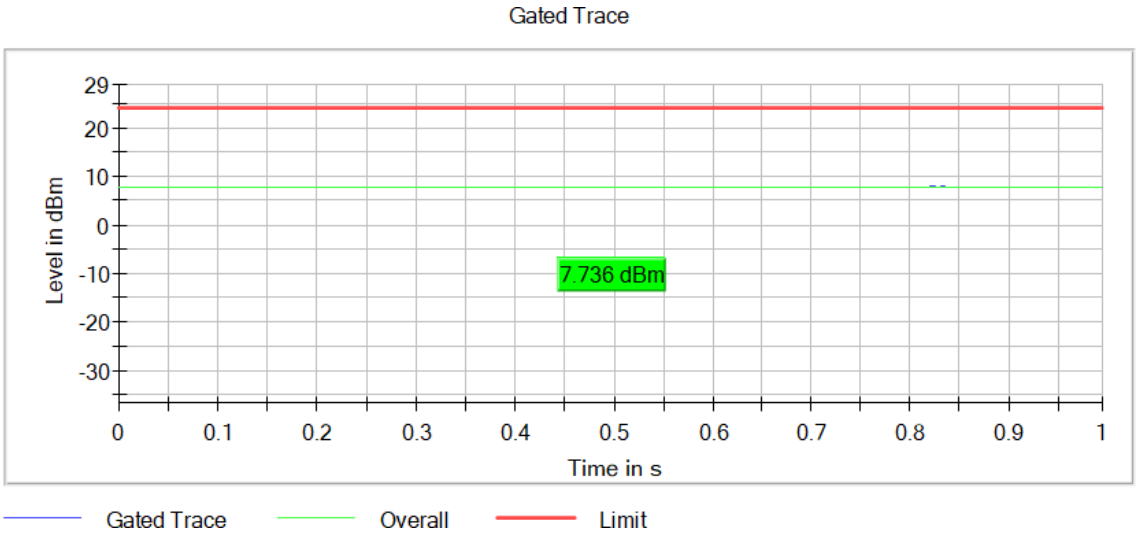
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



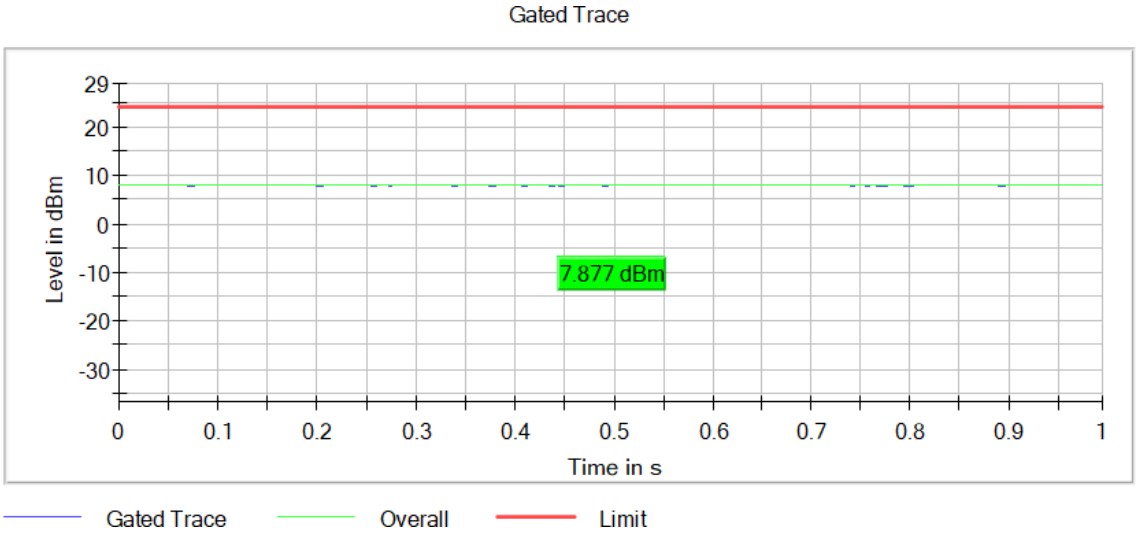

**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



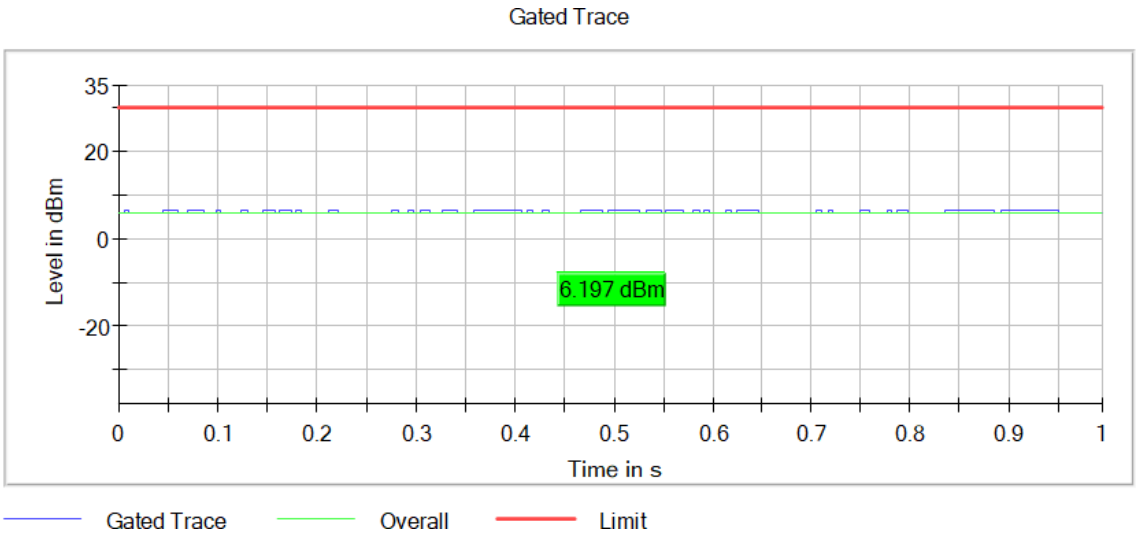
**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



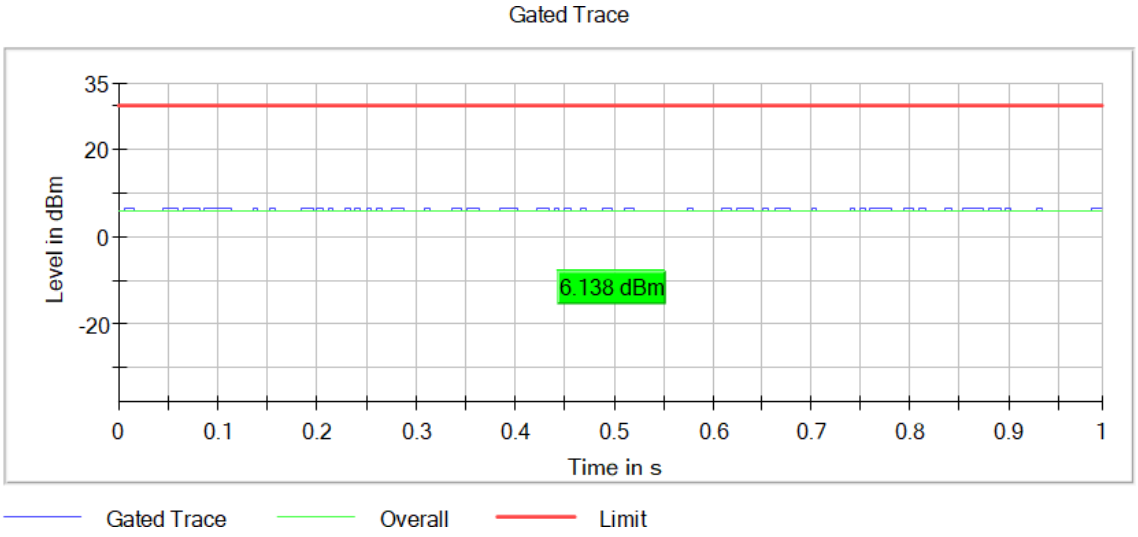

**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



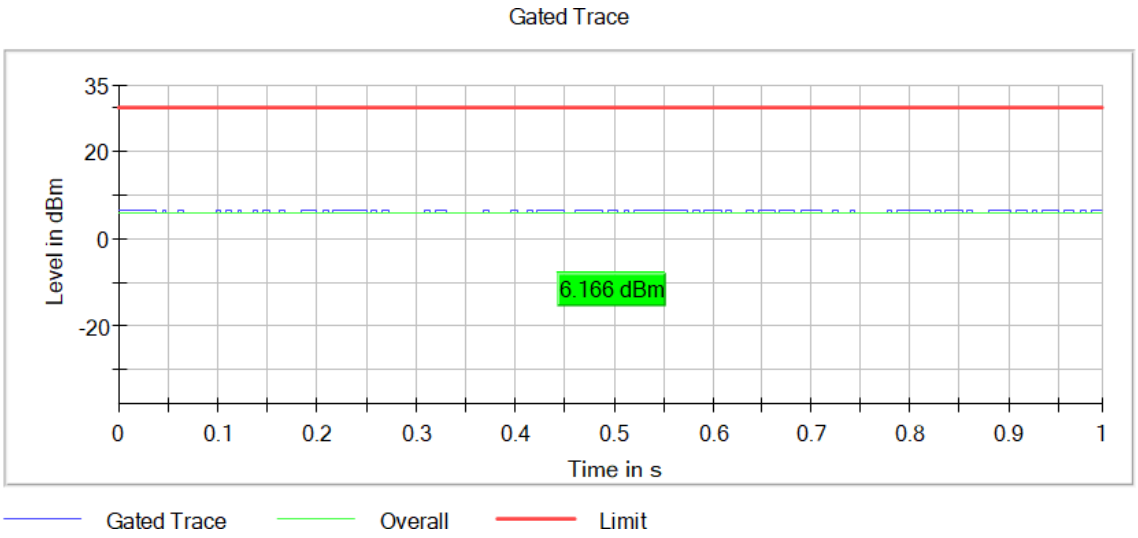
**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11n HT40 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 7.7 | 12.7 |
| 1+2 | 5230.00000 | No | 2 | 7.9 | 12.9 |
| 1+2 | 5755.00000 | No | 2 | 6 | 11.0 |
| 1+2 | 5795.00000 | No | 2 | 6 | 11.0 |

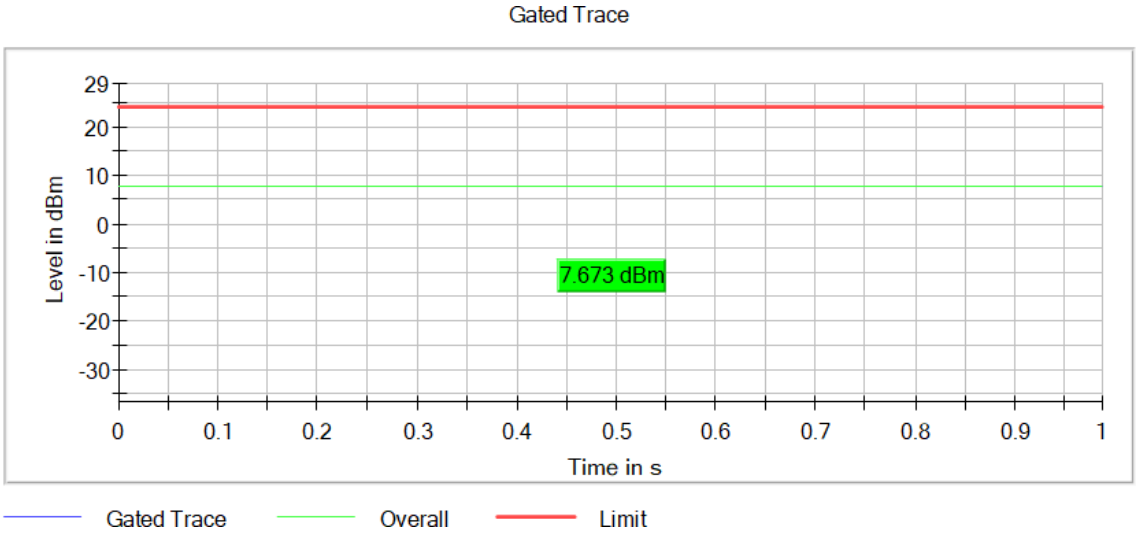
***Verdict***

Pass

***Attachments***

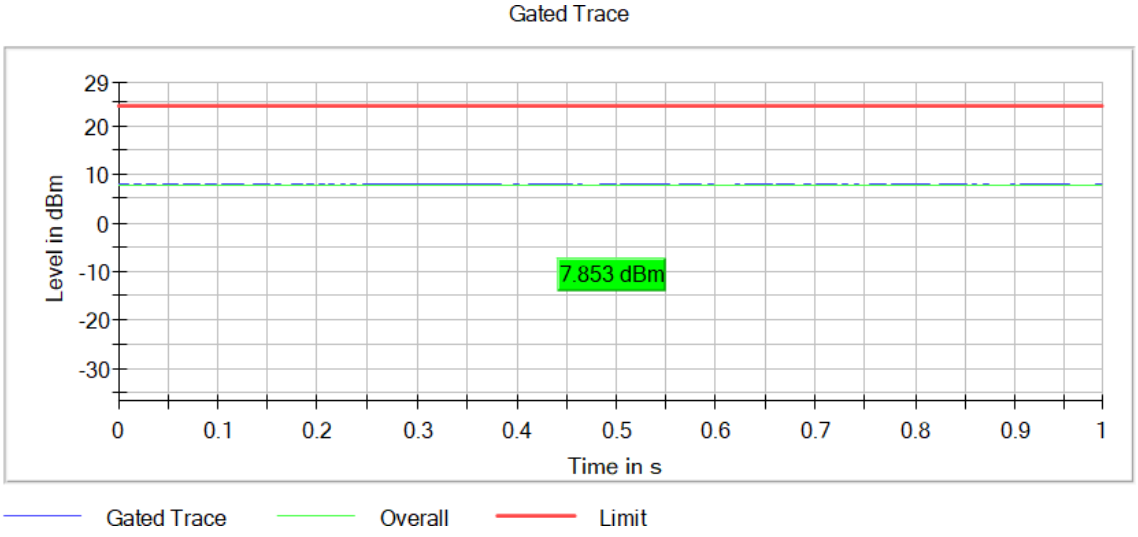
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



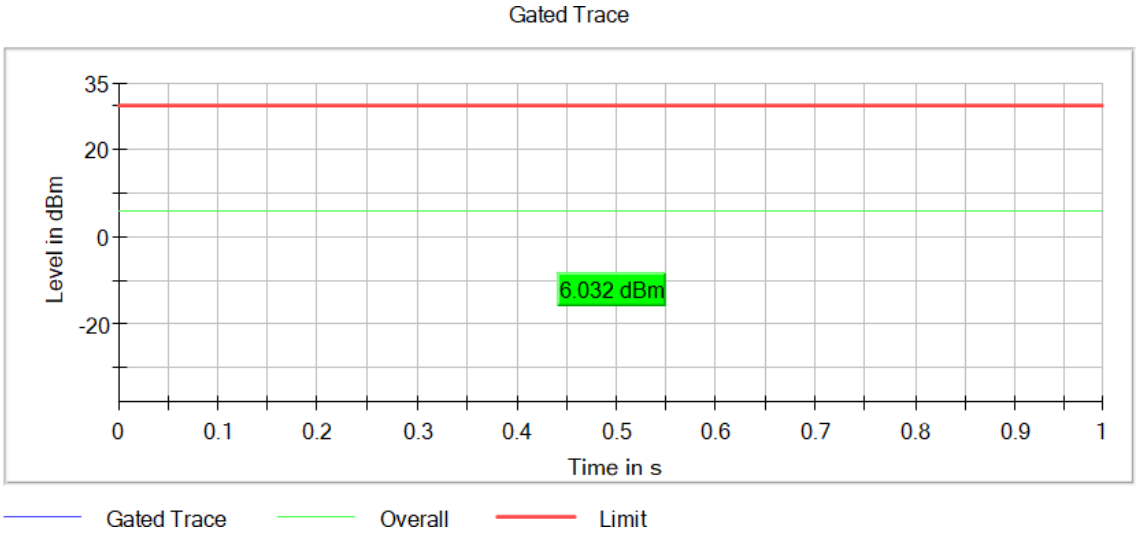

**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



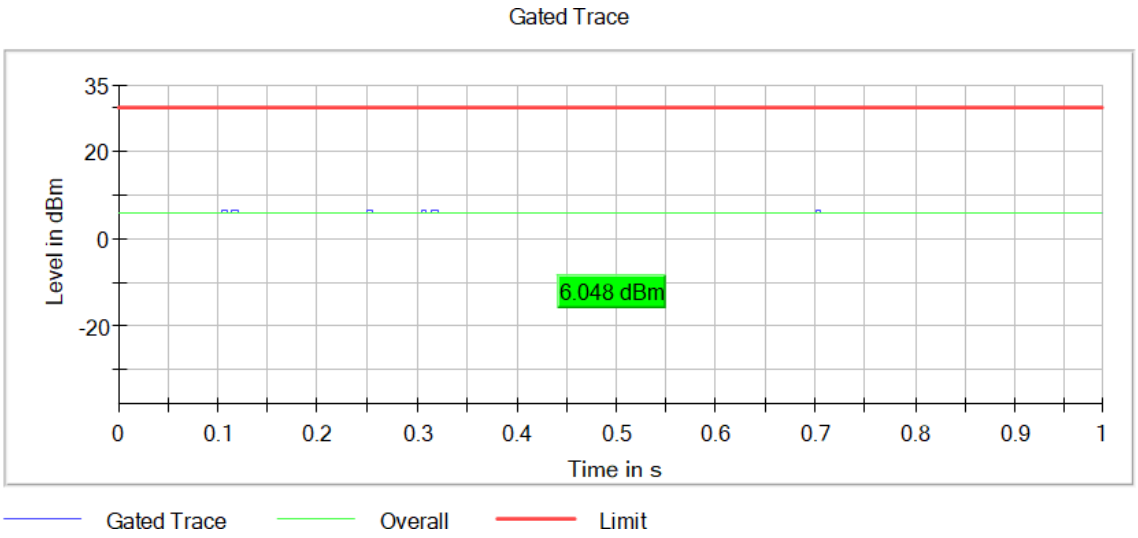
**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 7.6 | 12.6 |
| 1+2 | 5200.00000 | No | 2 | 7.7 | 12.7 |
| 1+2 | 5240.00000 | No | 2 | 7.9 | 12.9 |
| 1+2 | 5745.00000 | No | 2 | 6 | 11.0 |
| 1+2 | 5785.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5825.00000 | No | 2 | 6.1 | 11.1 |

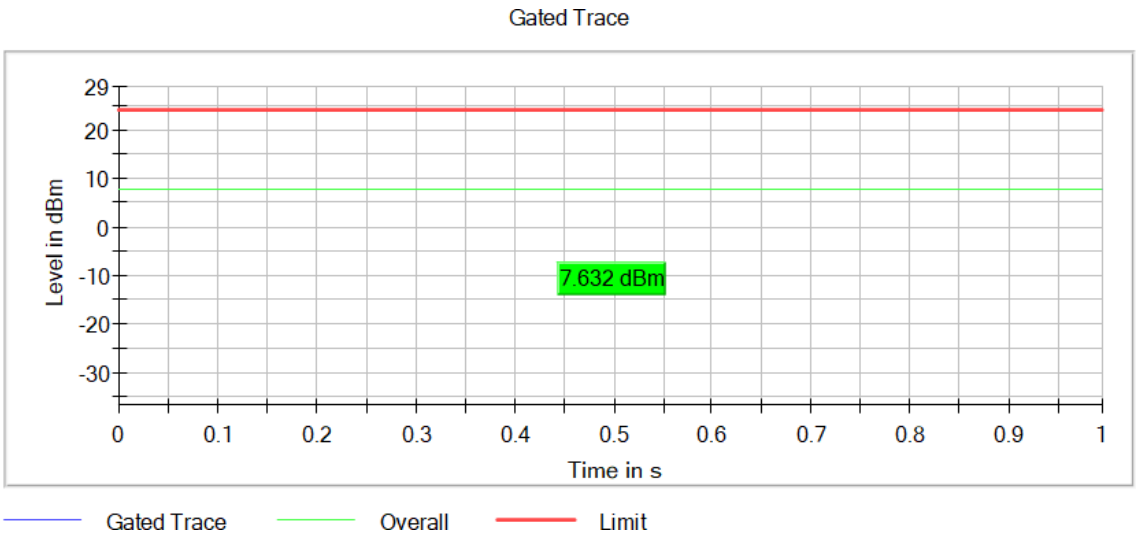
***Verdict***

Pass

***Attachments***

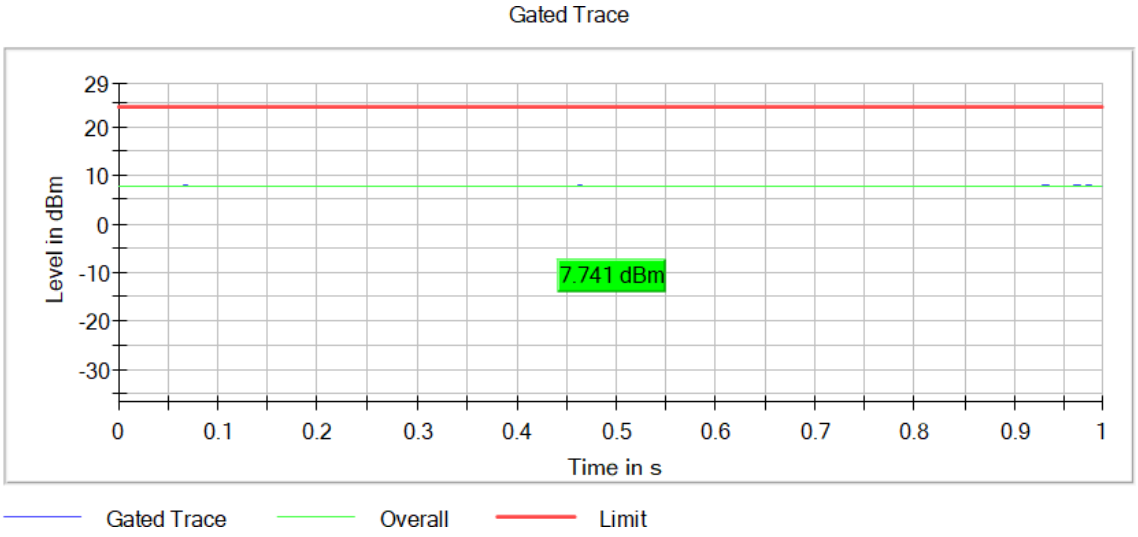
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



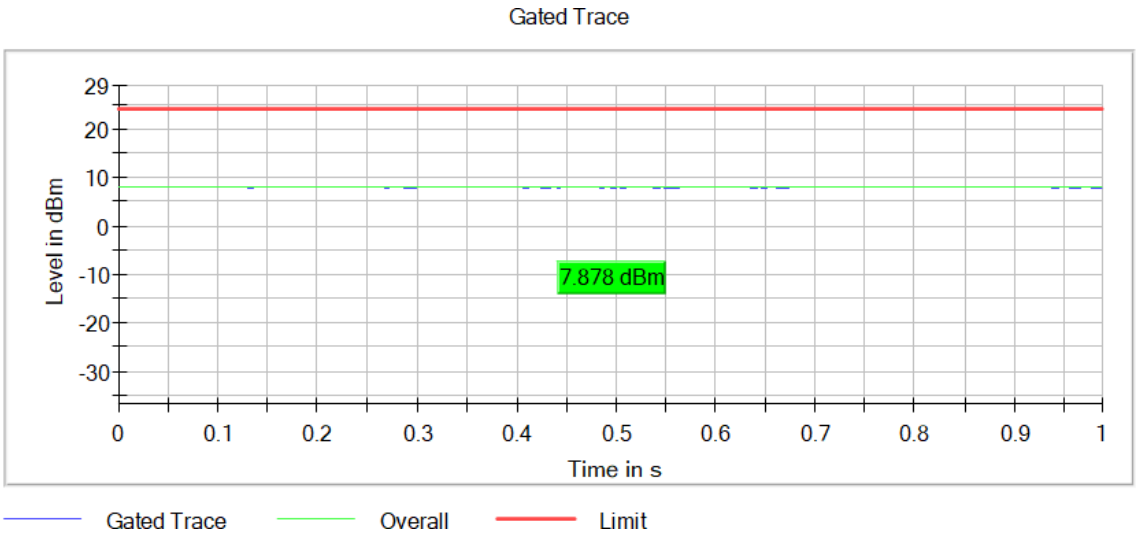
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



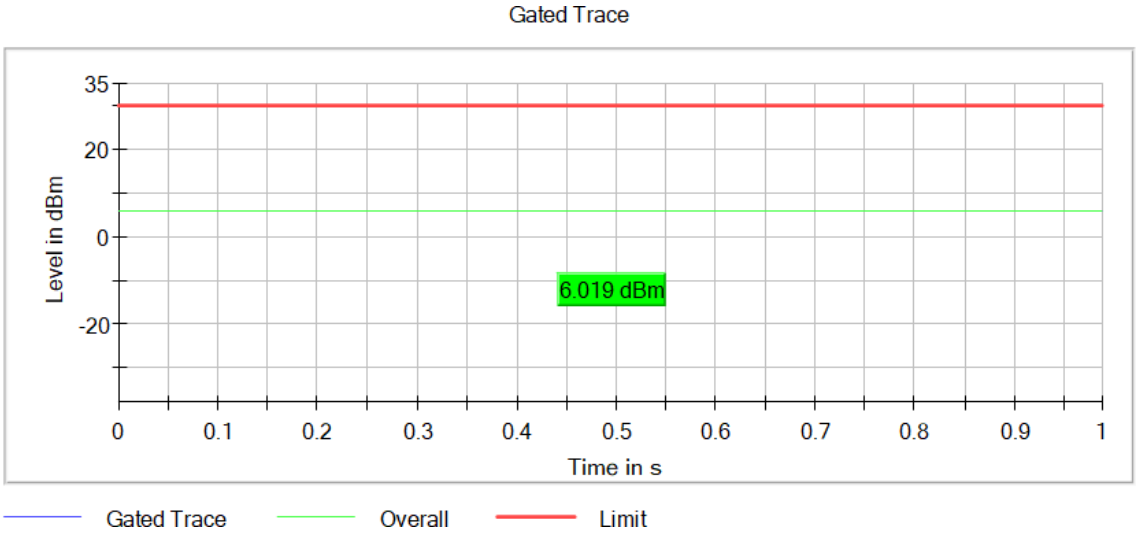

**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



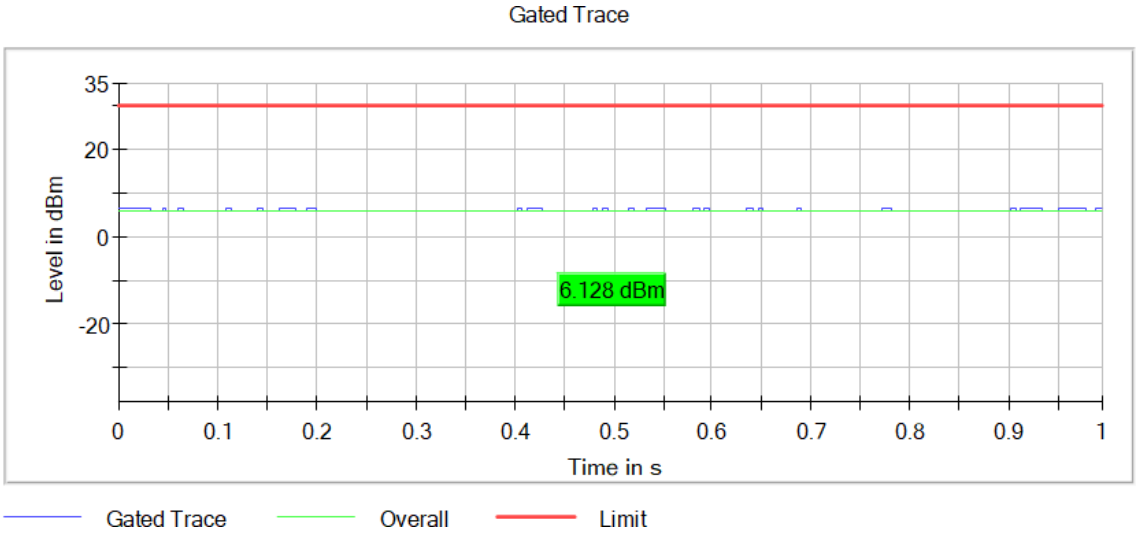
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



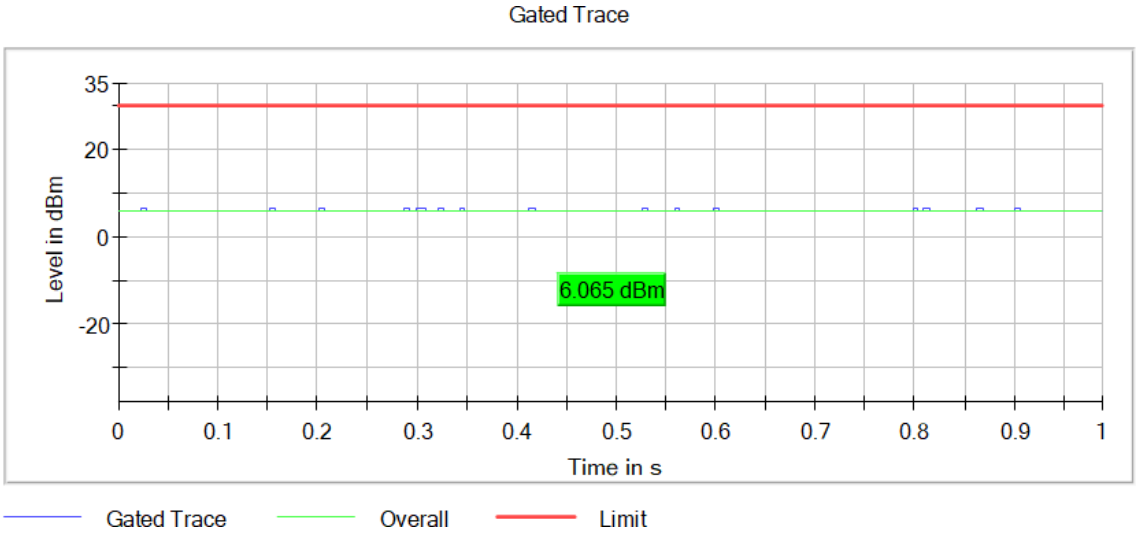

**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Max EIRP (dBm) | Avg Power (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 6.20 | 6.2 |
| 1+2 | 5230.00000 | No | 2 | 8.00 | 8.0 |
| 1+2 | 5755.00000 | No | 2 | 6.10 | 6.1 |
| 1+2 | 5795.00000 | No | 2 | 6.10 | 6.1 |

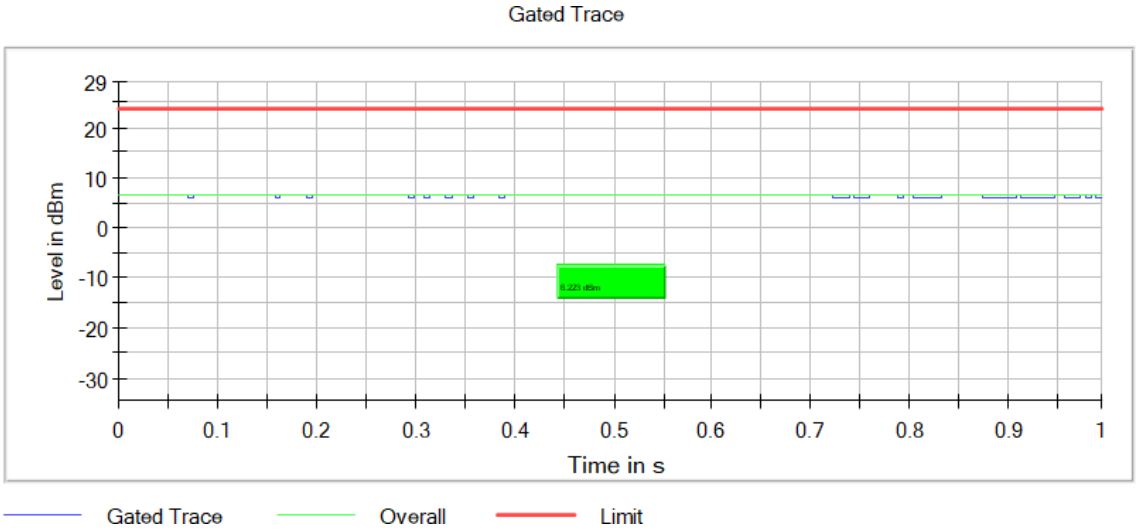
***Verdict***

Pass

***Attachments***

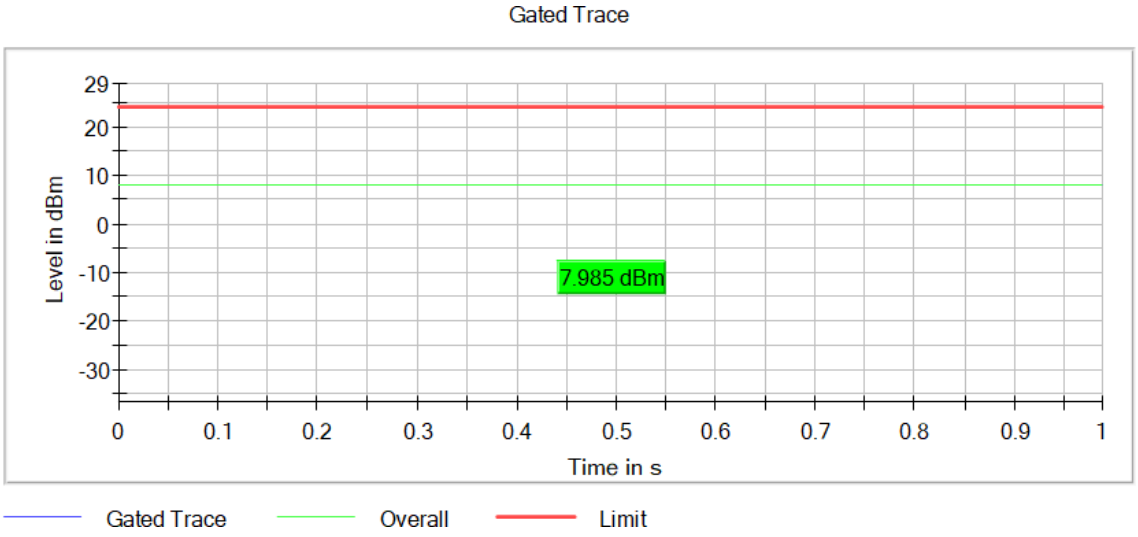
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



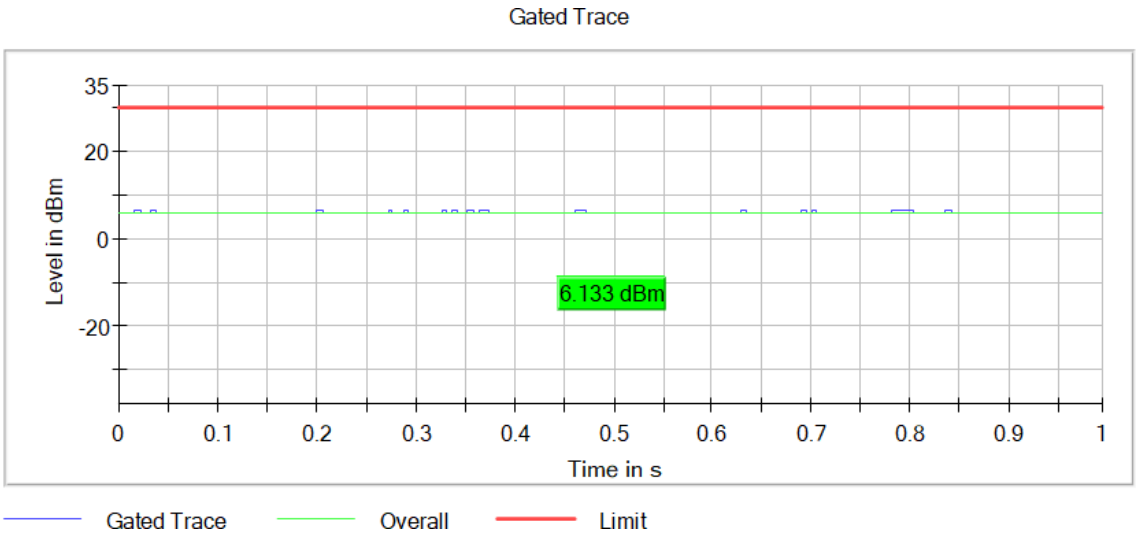
**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



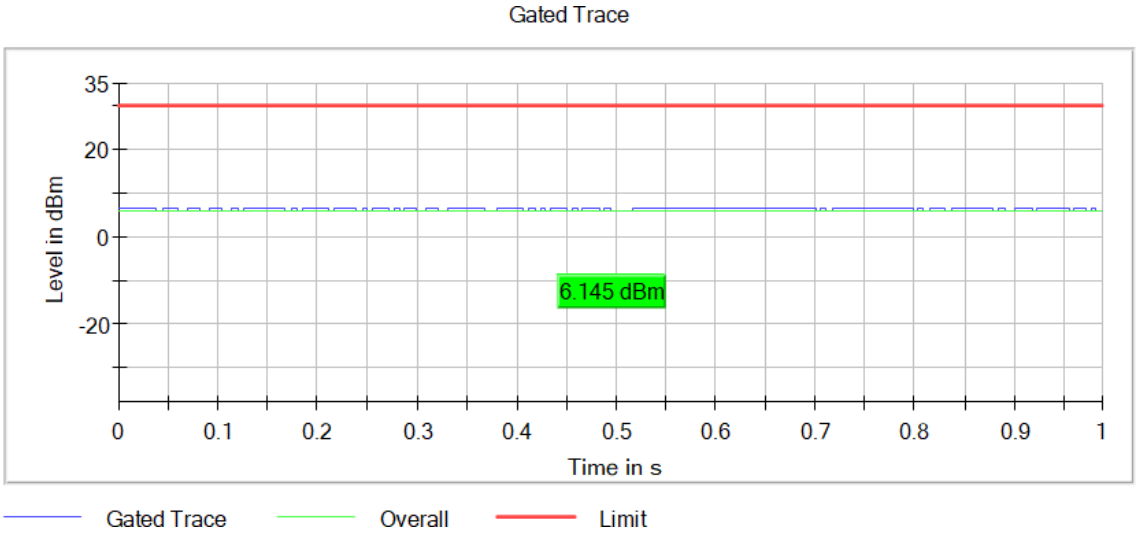

**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 7.3 | 12.3 |
| 1+2 | 5775.00000 | No | 2 | 6.4 | 11.4 |

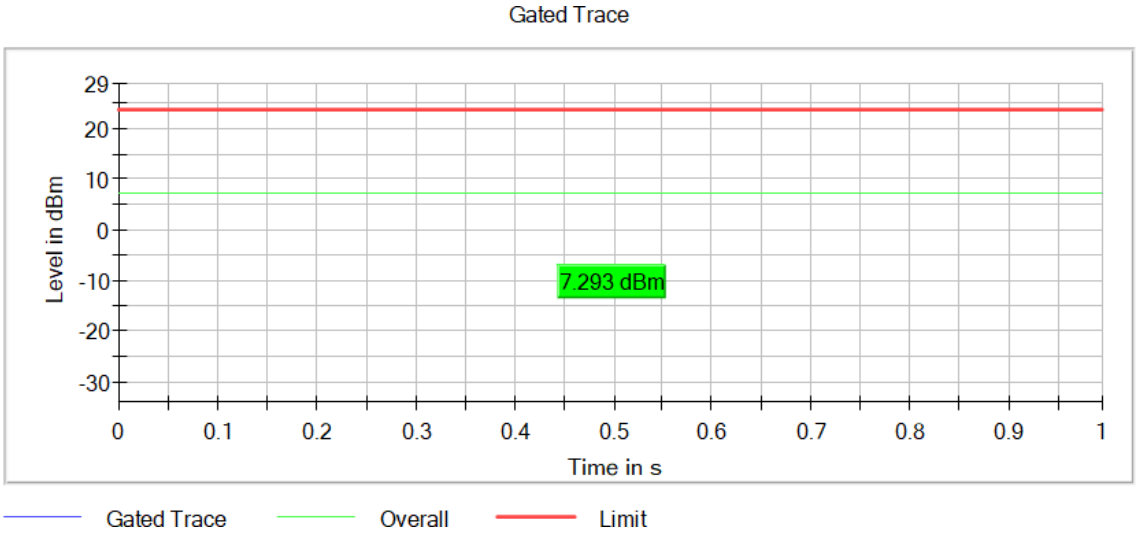
***Verdict***

Pass

***Attachments***

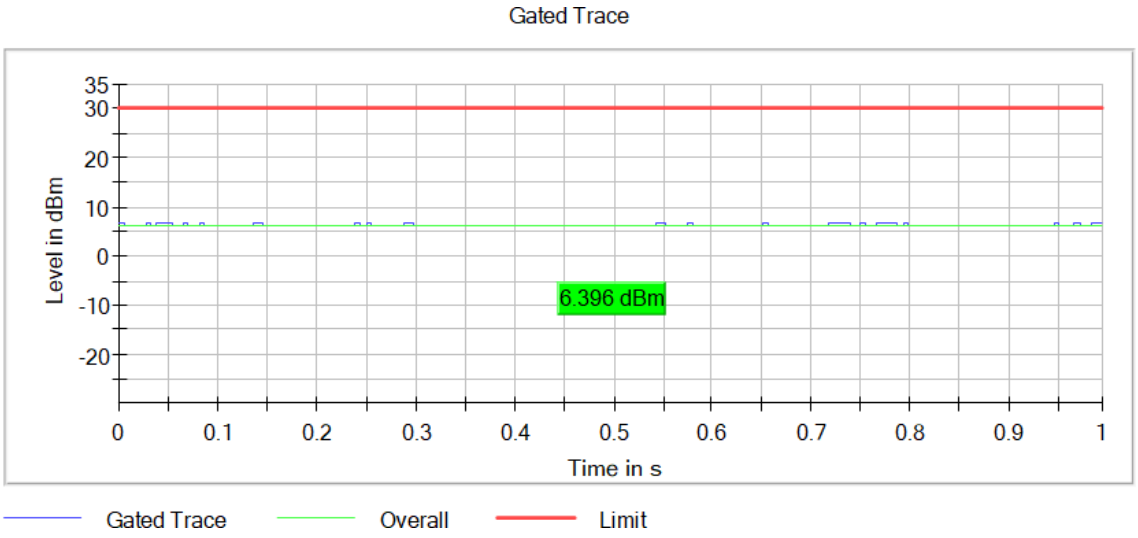
**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5775.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE20 (OFDMA MCS0)- Full RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5200.00000 | No | 2 | 4.9 | 9.9 |
| 1+2 | 5240.00000 | No | 2 | 6.2 | 11.2 |
| 1+2 | 5745.00000 | No | 2 | 5.4 | 10.4 |
| 1+2 | 5785.00000 | No | 2 | 4.7 | 9.7 |
| 1+2 | 5825.00000 | No | 2 | 6 | 11.0 |

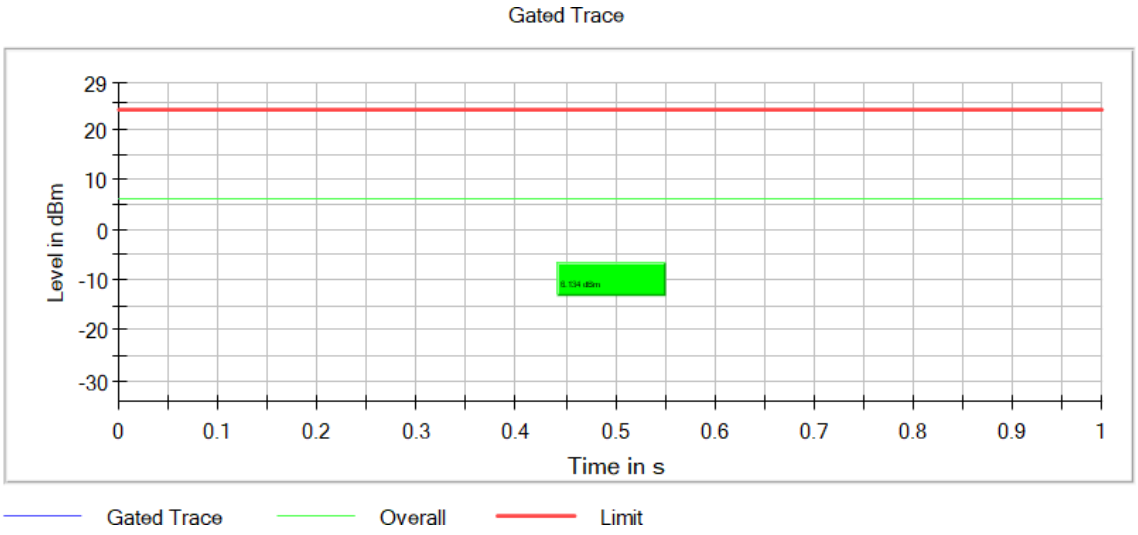
***Verdict***

Pass

***Attachments***

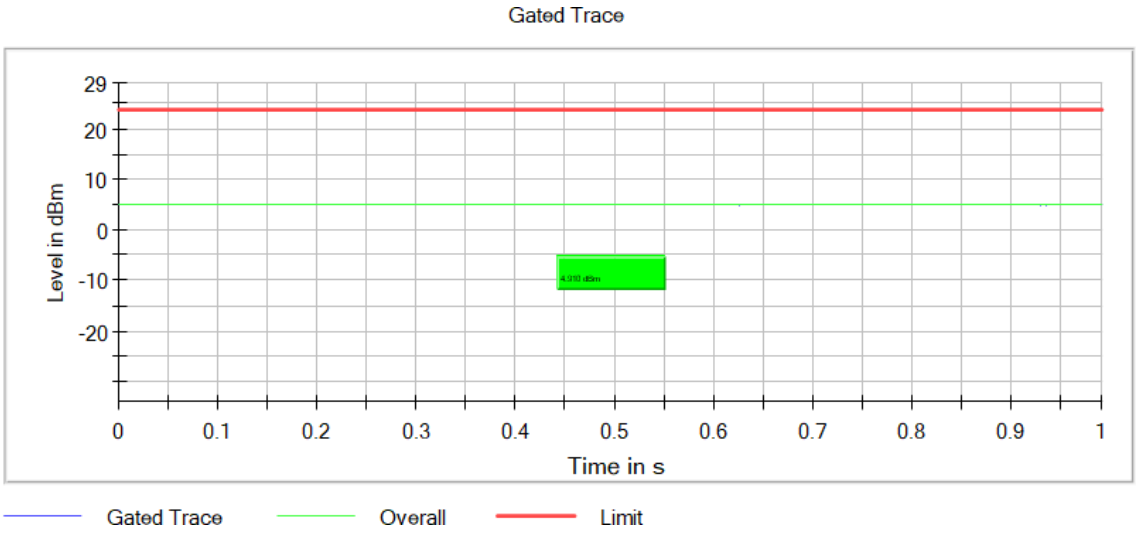
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



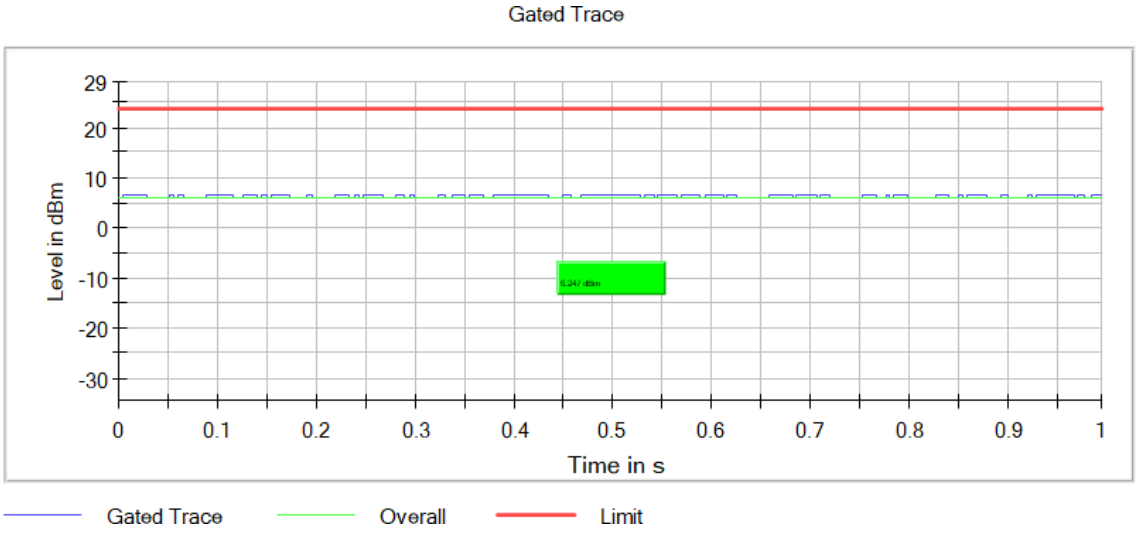

**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



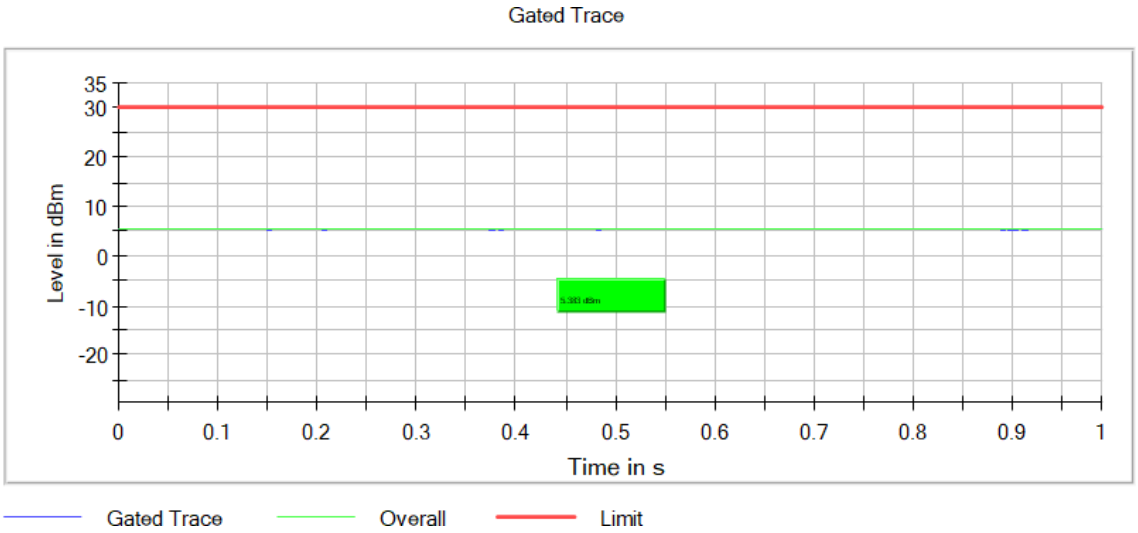
**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



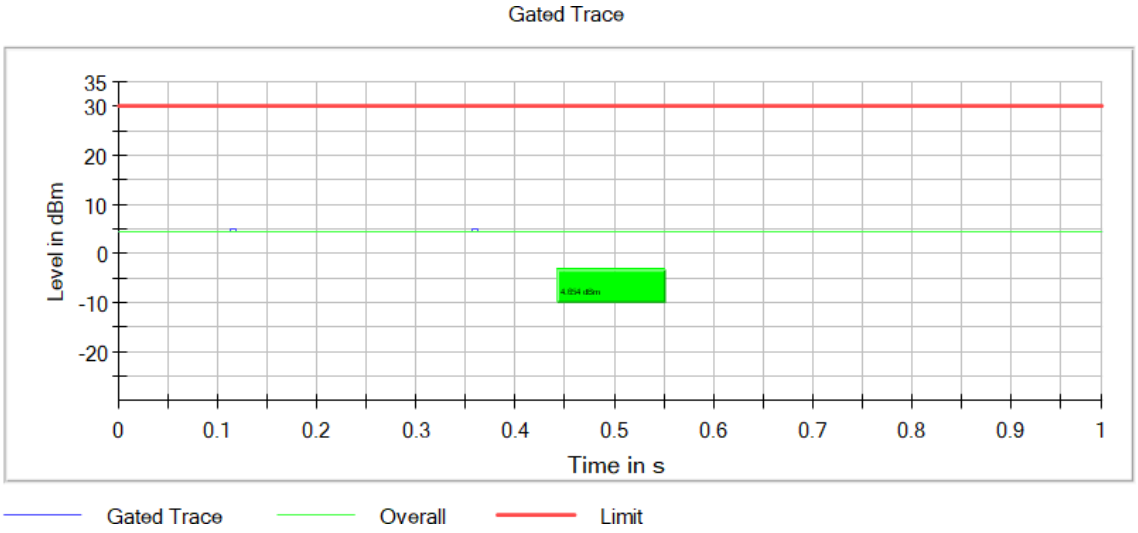

**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



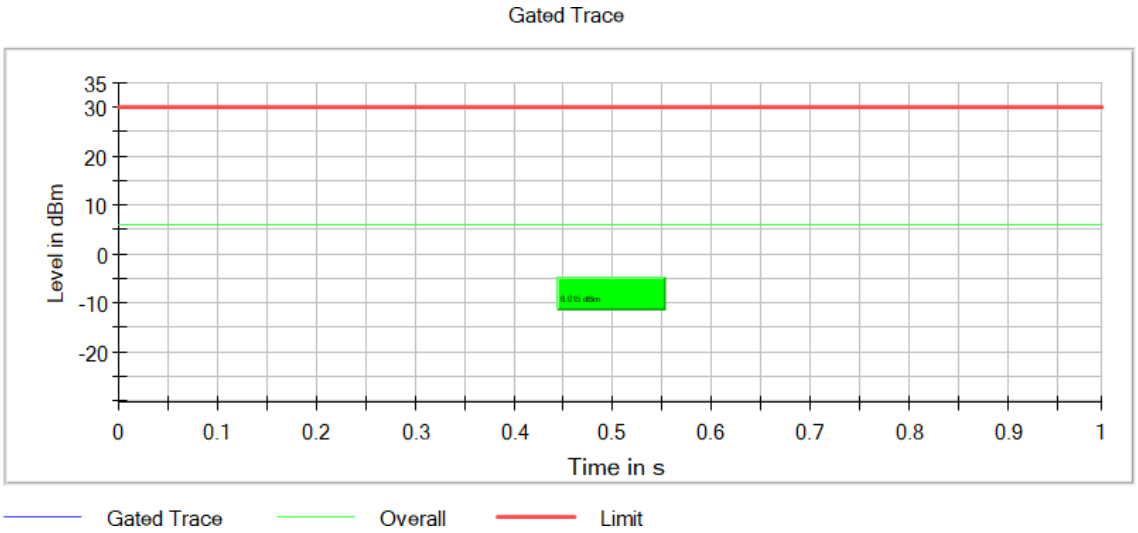
**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE20 (OFDMA MCS0)- Partial RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5200.00000 | No | 2 | 5.7 | 10.7 |
| 1+2 | 5240.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5745.00000 | No | 2 | 3.3 | 8.3 |
| 1+2 | 5785.00000 | No | 2 | 2.9 | 7.9 |
| 1+2 | 5825.00000 | No | 2 | 3.5 | 8.5 |

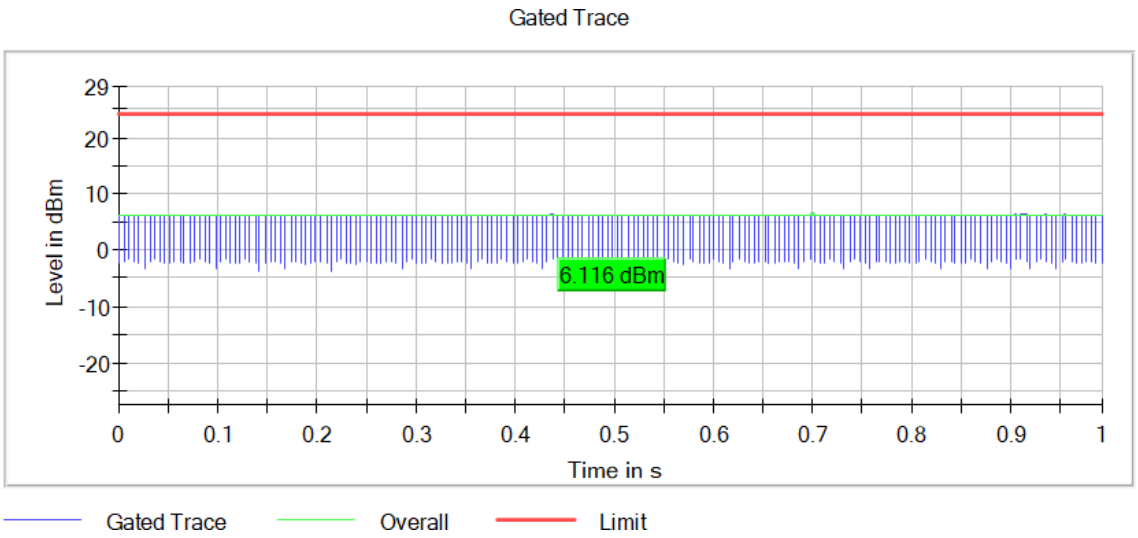
***Verdict***

Pass

***Attachments***

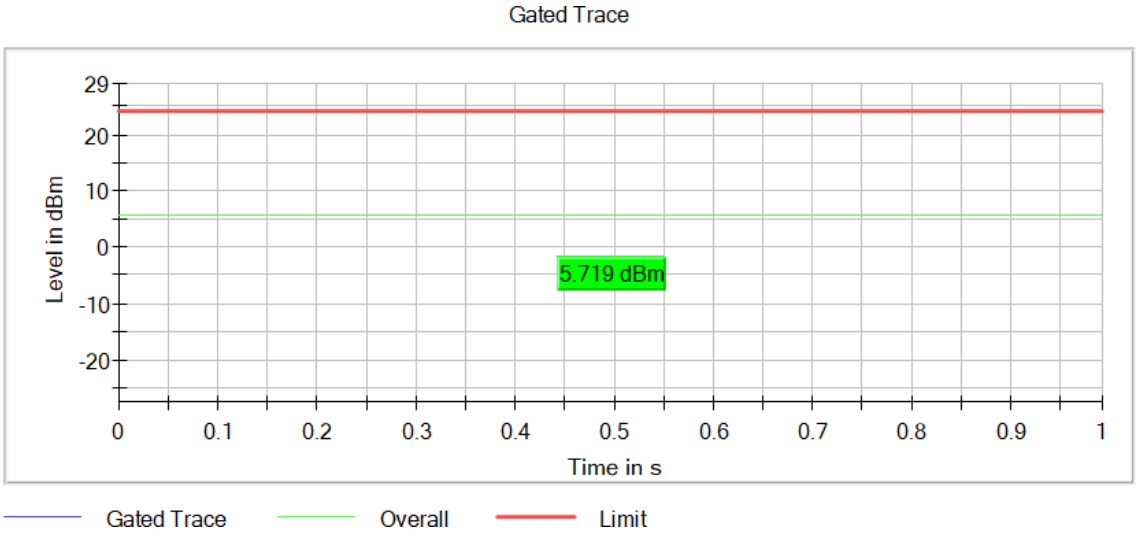
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



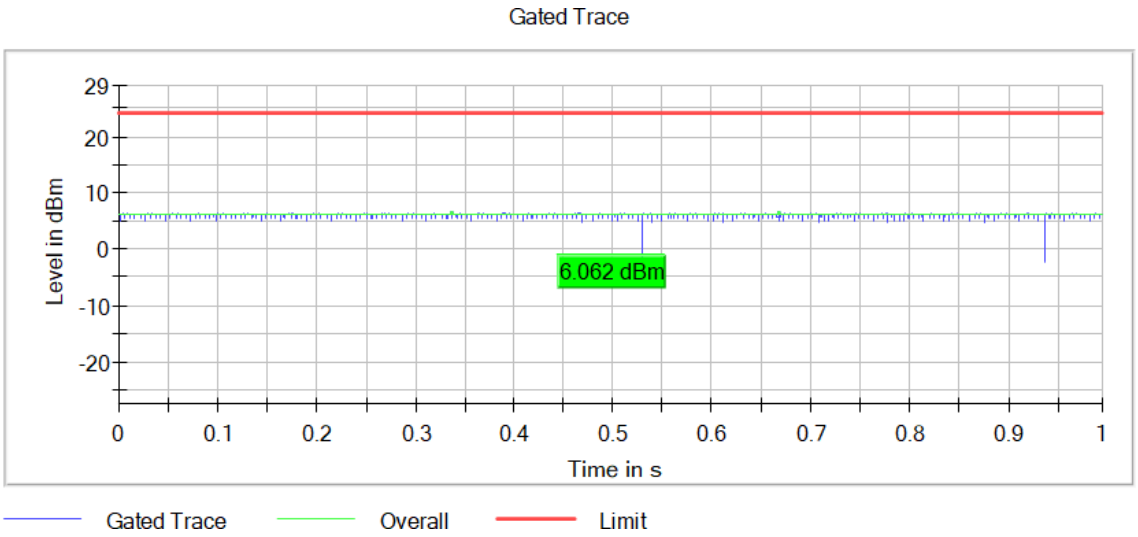
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



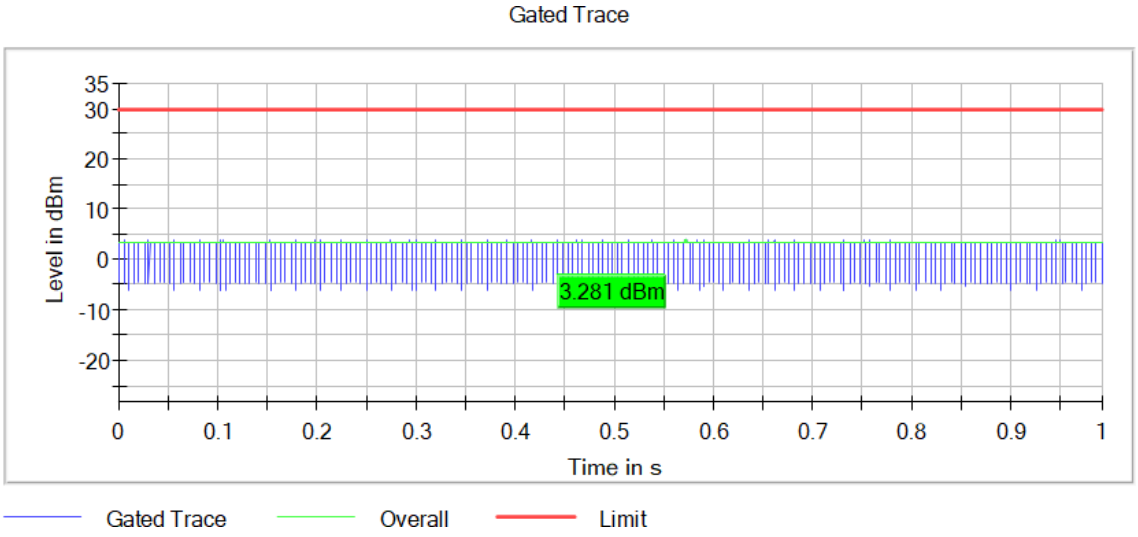

**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



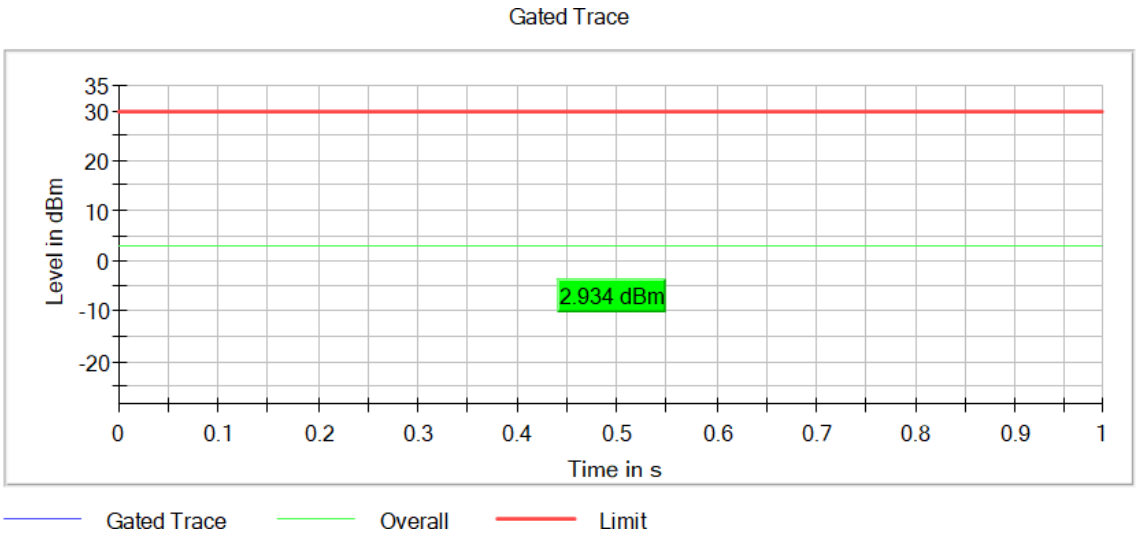
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



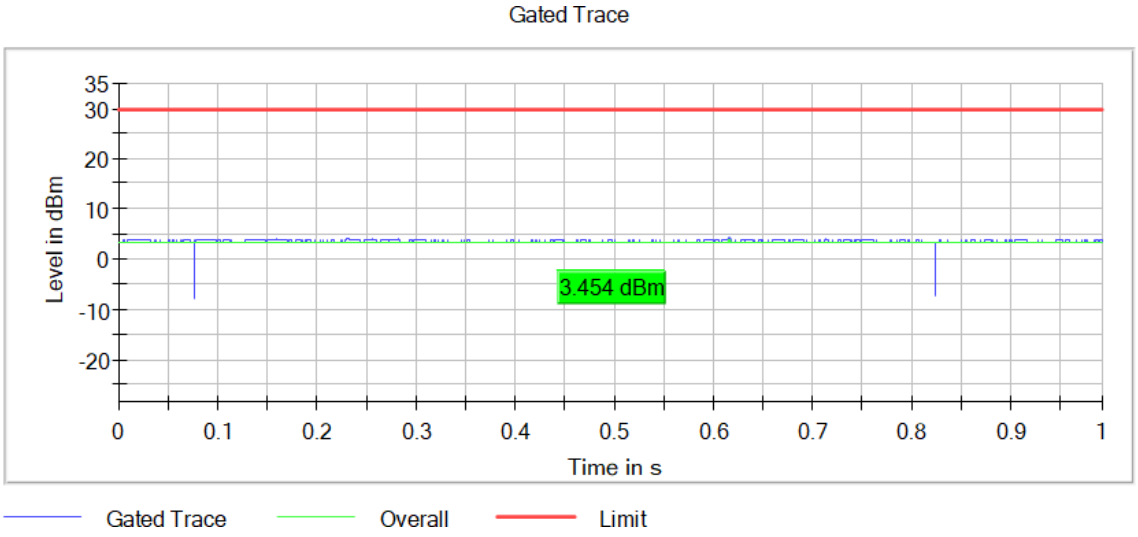

**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0) – Full RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5230.00000 | No | 2 | 6.6 | 11.6 |
| 1+2 | 5755.00000 | No | 2 | 5.6 | 10.6 |
| 1+2 | 5795.00000 | No | 2 | 5.8 | 10.8 |

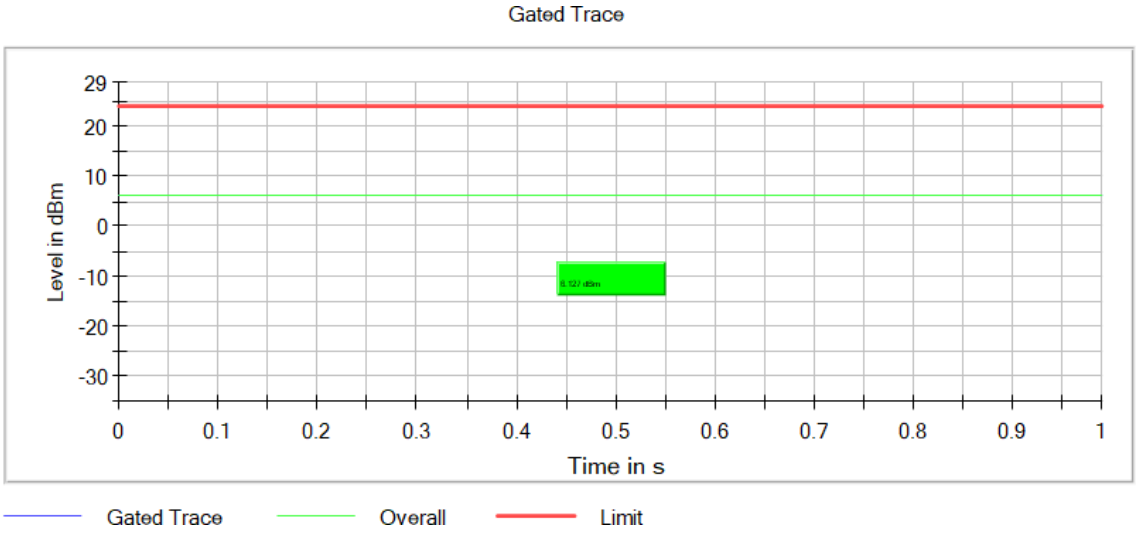
***Verdict***

Pass

***Attachments***

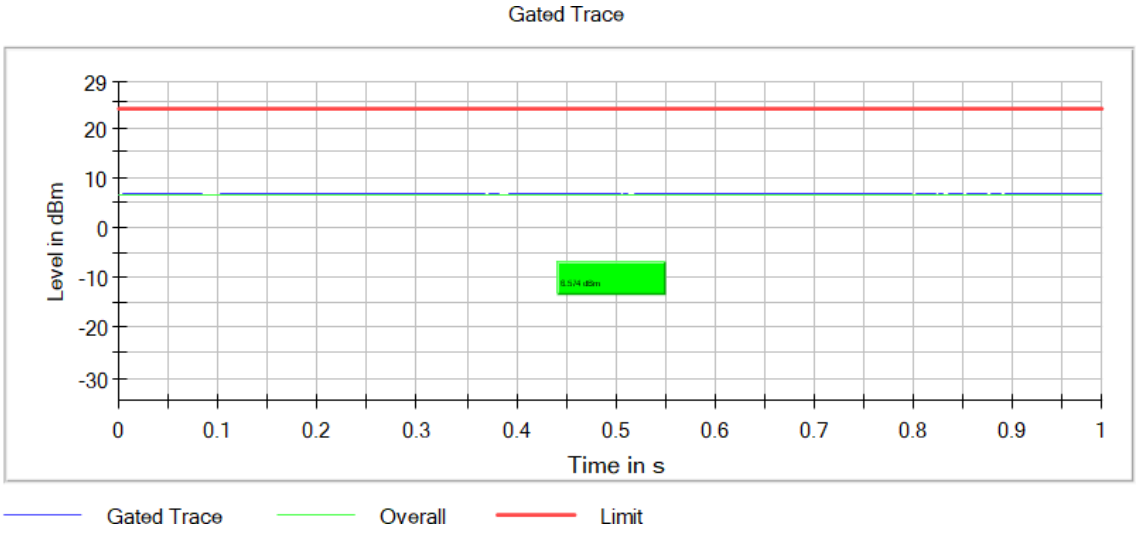
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



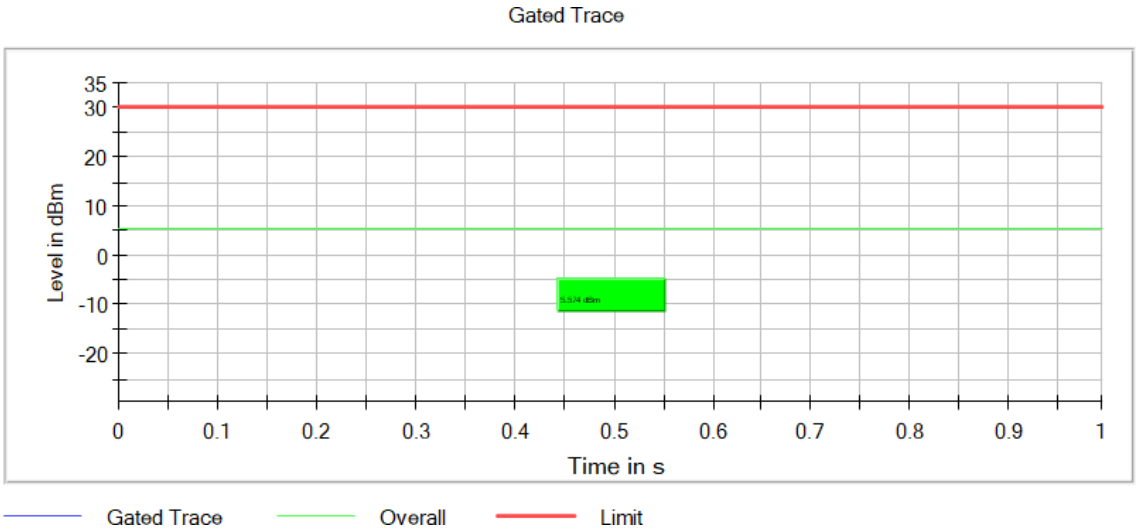
**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



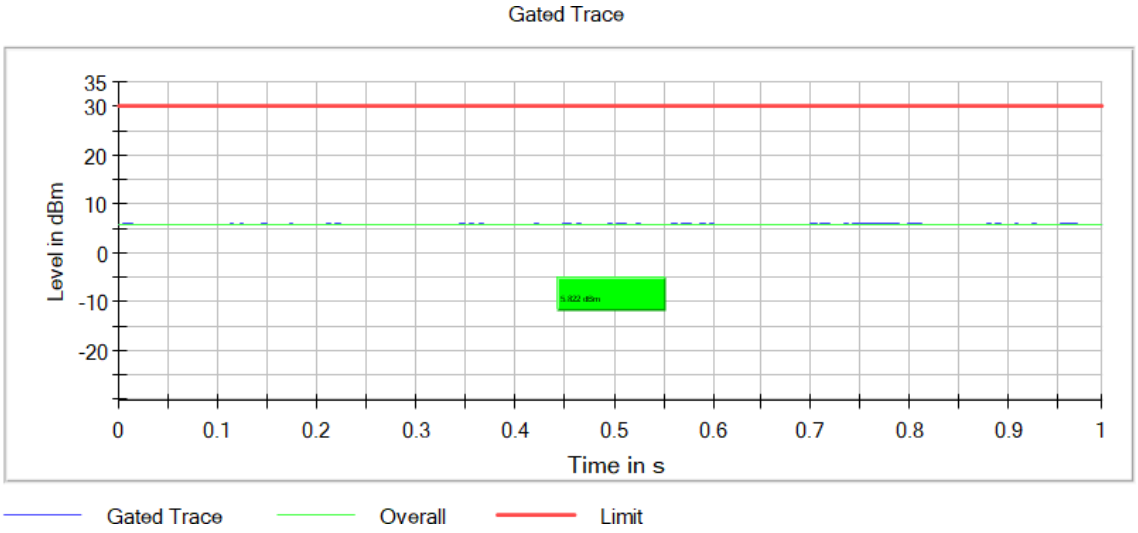

**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE40 (OFDMA MCS0) – Partial RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 6.1 | 11.1 |
| 1+2 | 5230.00000 | No | 2 | 6.6 | 11.6 |
| 1+2 | 5755.00000 | No | 2 | 5.4 | 10.4 |
| 1+2 | 5795.00000 | No | 2 | 5.4 | 10.4 |

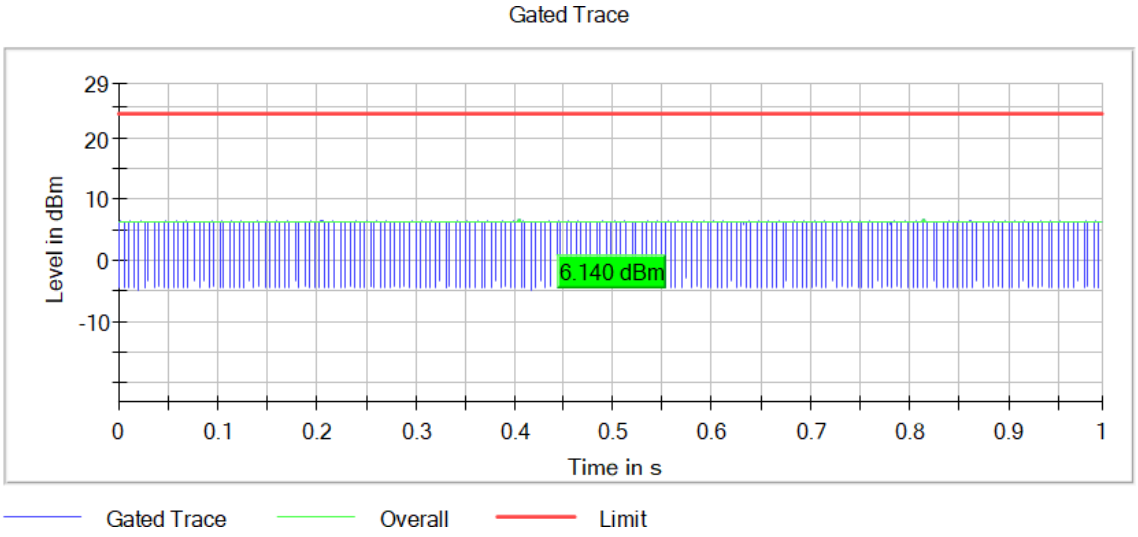
***Verdict***

Pass

***Attachments***

**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

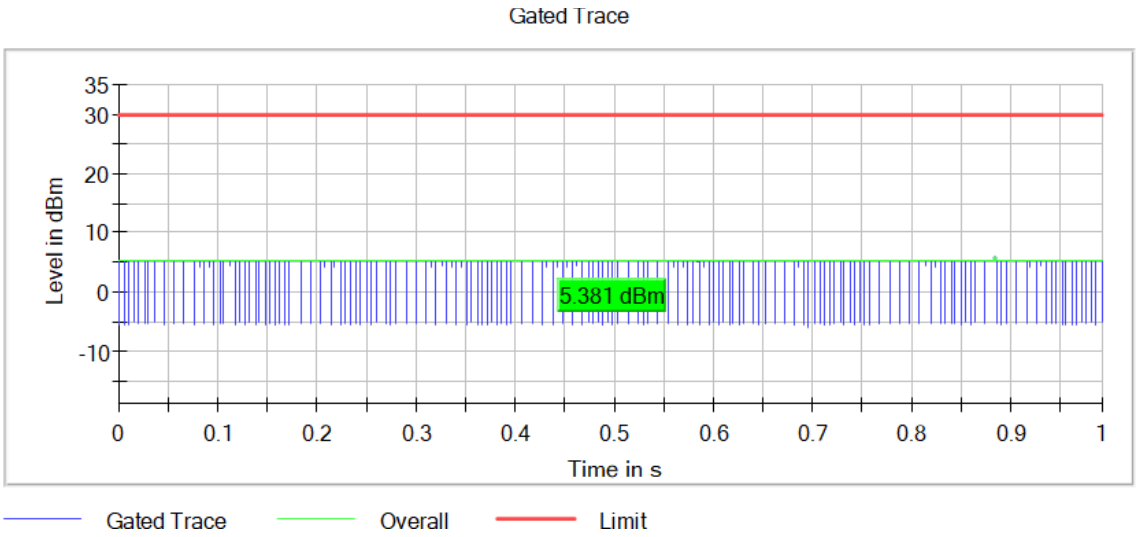


**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

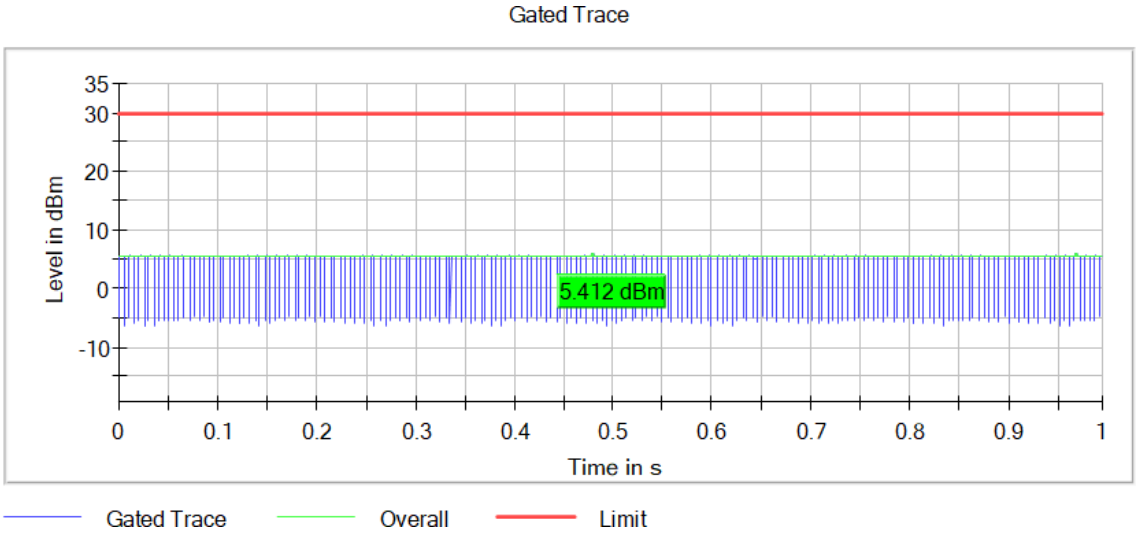

**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2 – Full RU

Modulation: 802.11ax HE80 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 5.1 | 10.1 |
| 1+2 | 5775.00000 | No | 2 | 5.1 | 10.1 |

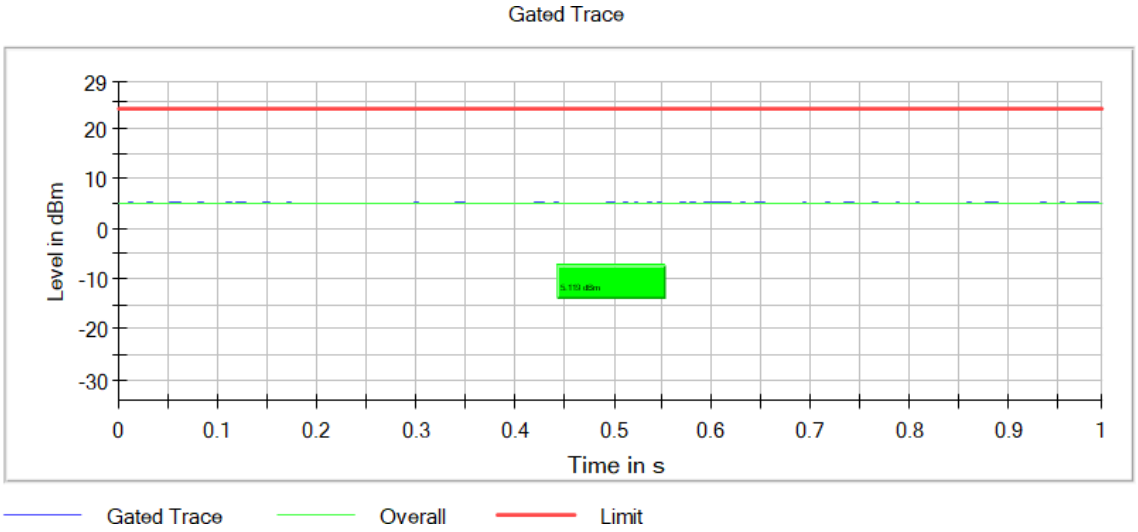
***Verdict***

Pass

***Attachments***

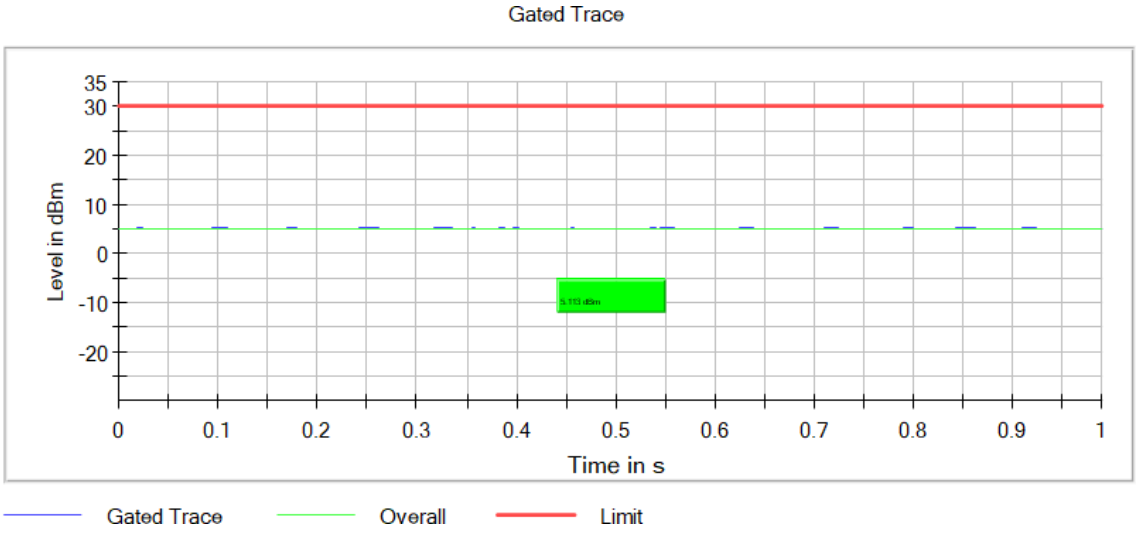
**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

MIMO Mode: MIMO CCD Mode 2x2 – Partial RU

Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Avg Power (dBm) | Max EIRP (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 6.7 | 11.7 |
| 1+2 | 5775.00000 | No | 2 | 3.5 | 8.5 |

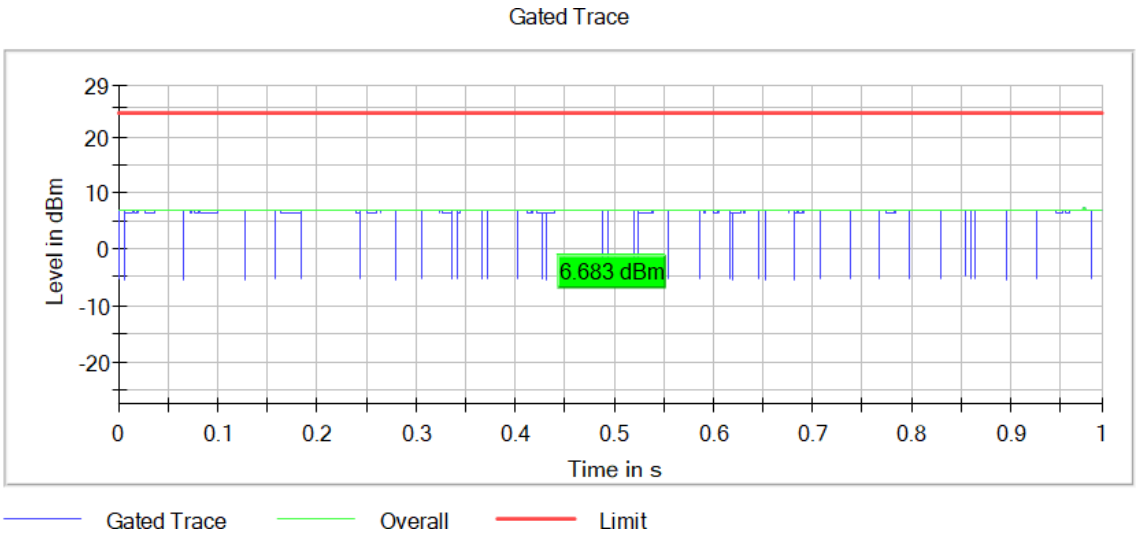
***Verdict***

Pass

***Attachments***

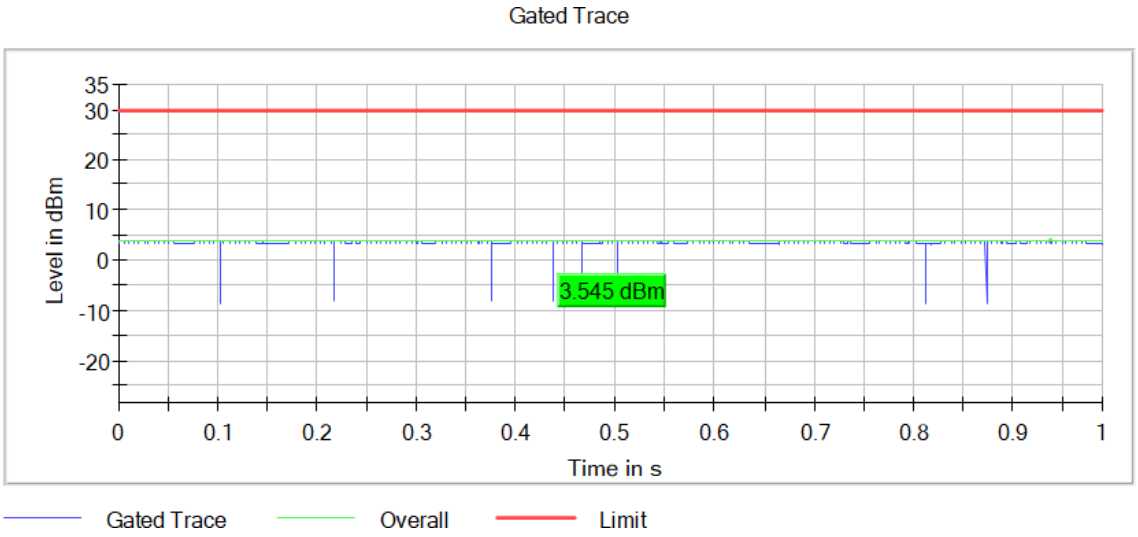
**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Measurement Time | 1.000 s | 1.000 s |
| Points | 1000000 | 1000000 |
| Time resolution | 1.000 µs | 1.000 µs |

## FCC 15.407 (a) / RSS-247 6.2 Maximum Power Spectral Density

### Limits

FCC 15.407:

For the band 5.15-5.25 GHz, The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz 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.

For the band 5.725-5.850 GHz, 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. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

RSS-247:

For the 5.25-5.35 GHz, 5.470-5.6 GHz, and 5.650-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the band 5.725-5.850 GHz, the output 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 output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note:

1- The following test results are shown based on KDB 662911 D01 Multiple Transmitter Output v02r01 E) 3) a) (ii) Measure and sum spectral maxima across the outputs as described in section E)2)b).

2- For 2Tx CDD MIMO modes, in accordance with KDB 662911 D01 v02r01 Section F)2)f)i), directional gain was calculated as follows:

• For power spectral density (PSD) measurements:

Directional gain $_{PSD}$ = $G_{ANT}$ + 10 log($N_{ANT}$/$N_{SS}$) dBi

$N_{SS}$ = 1 (worst case), $N_{ANT}$ = 2, $G_{ANT}$ = +5 dBi

Directional gain $_{PSD}$ = 2 + 10 log(2/1) = 2 + 10log(2) = 5 + 3.01 = + 8.01 dBi

PSD Antenna Gain MIMO Chain 0 & 1: + 8.01 dBi

For MIMO CDD operation modes, the limit should be reduced by the amount in dB the antenna gain exceeds 6 dBi. In this case the values in the tables below include the 2.01 dB. due to the antenna gain calculations is 8.01 dBi.

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11a (OFDM 6 Mbit/s)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 5185.940594 | -1.58 |
| 1+2 | 5200.00000 | No | 2 | 5205.940594 | -1.41 |
| 1+2 | 5240.00000 | No | 2 | 5246.138614 | -1.51 |
| 1+2 | 5745.00000 | No | 2 | 5752.524752 | -5.21 |
| 1+2 | 5785.00000 | No | 2 | 5789.950495 | -5.18 |
| 1+2 | 5825.00000 | No | 2 | 5827.376238 | -5.26 |

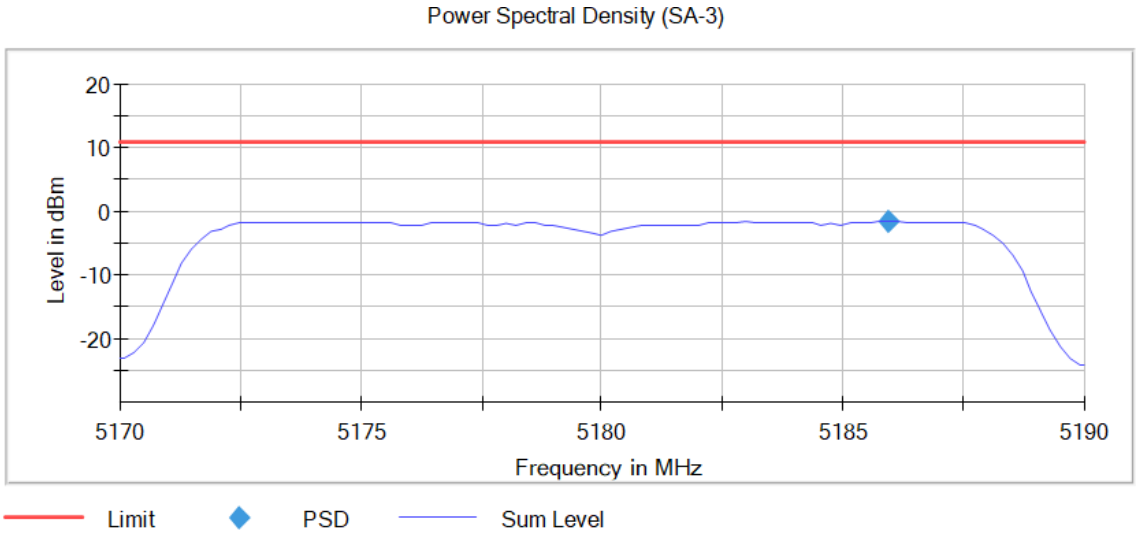
***Verdict***

Pass

***Attachments***

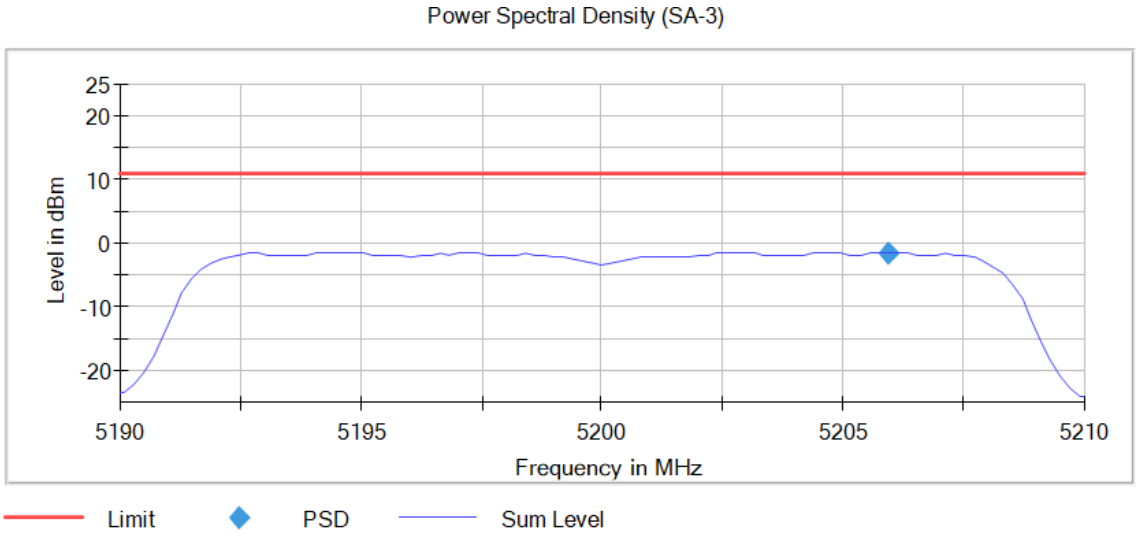
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



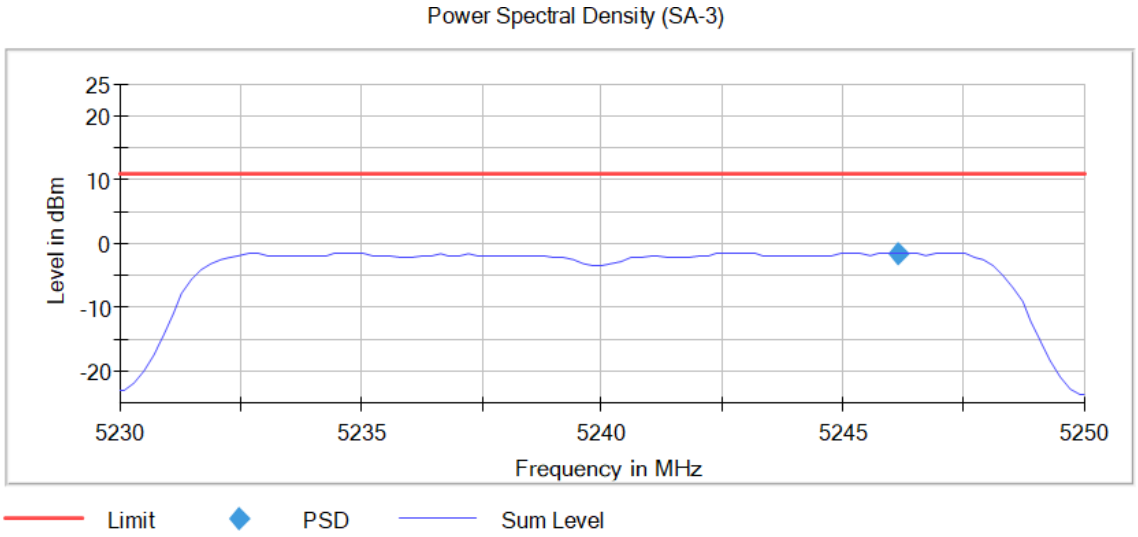
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

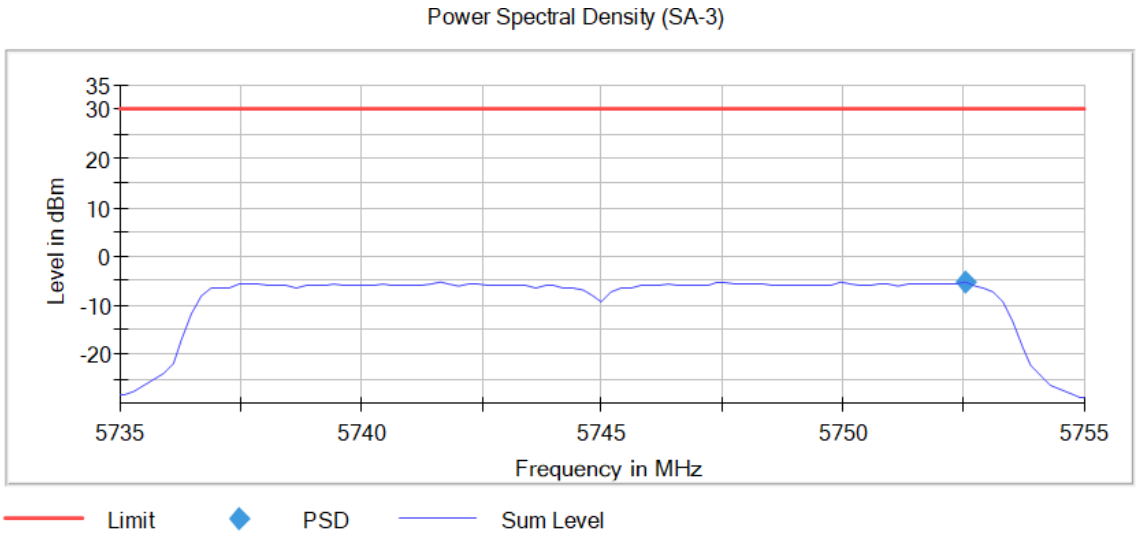


**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.25 dB | 0.50 dB |

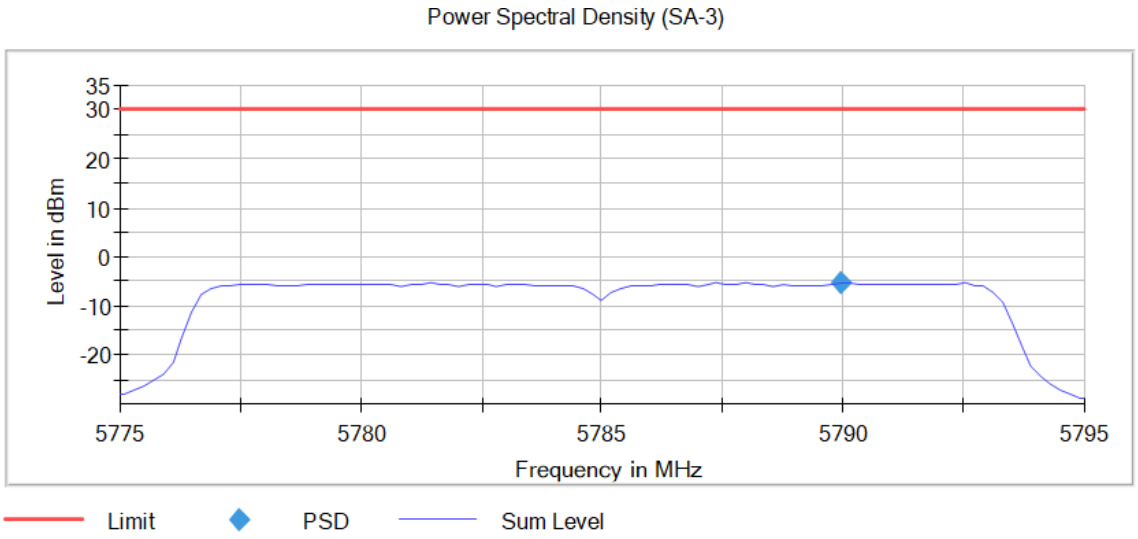
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

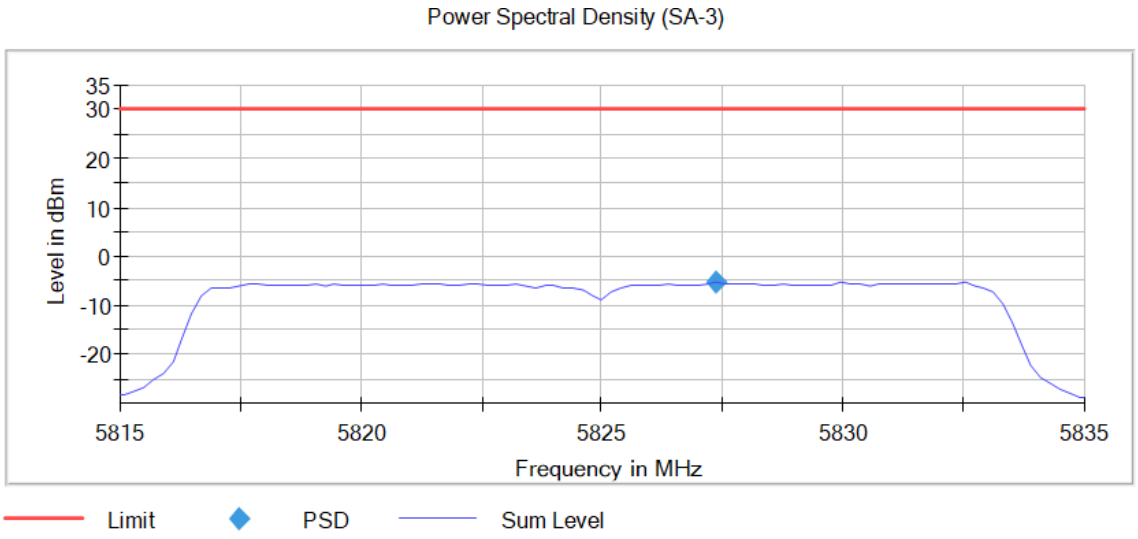
**Images:**




**Tables:**

**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11a (OFDM 6 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11n HT20 (OFDM MCS0 6.5 Mbit/s)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 5185.940594 | -2.44 |
| 1+2 | 5200.00000 | No | 2 | 5205.940594 | -2.35 |
| 1+2 | 5240.00000 | No | 2 | 5245.940594 | -2.32 |
| 1+2 | 5745.00000 | No | 2 | 5752.524752 | -6.53 |
| 1+2 | 5785.00000 | No | 2 | 5780.643564 | -6.35 |
| 1+2 | 5825.00000 | No | 2 | 5820.643564 | -6.49 |

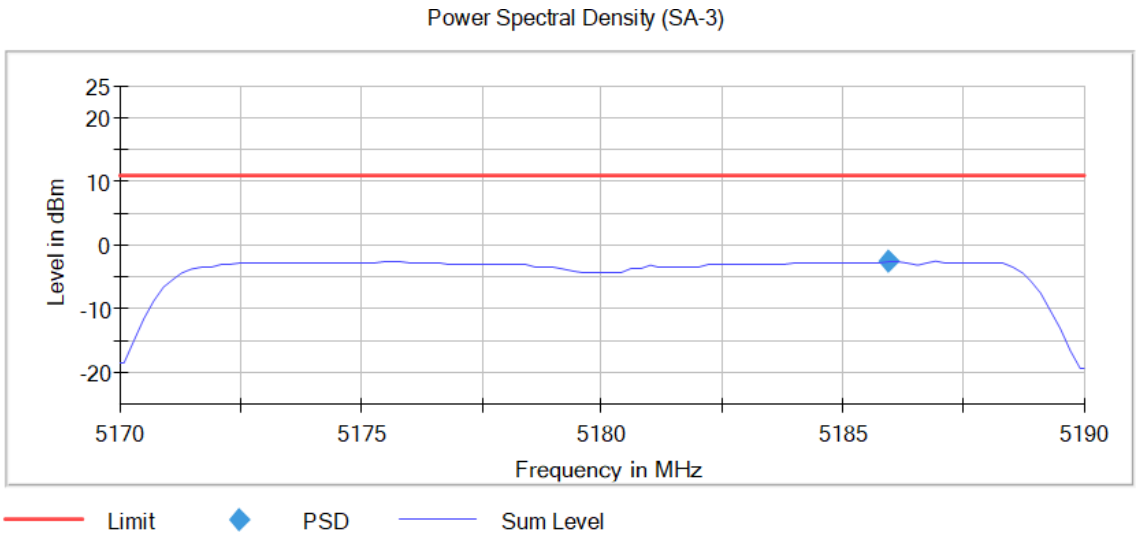
***Verdict***

Pass

***Attachments***

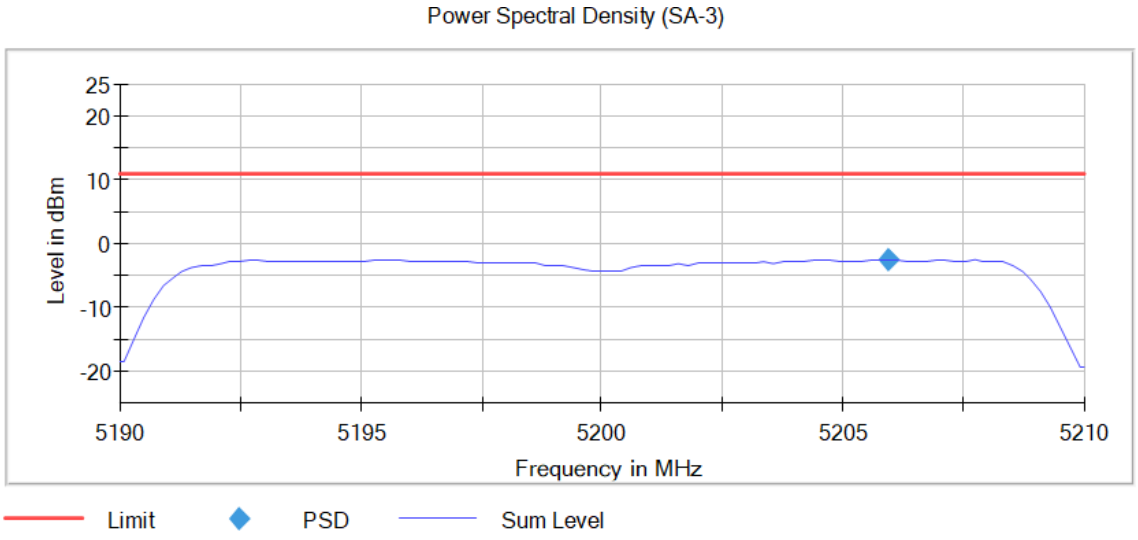
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



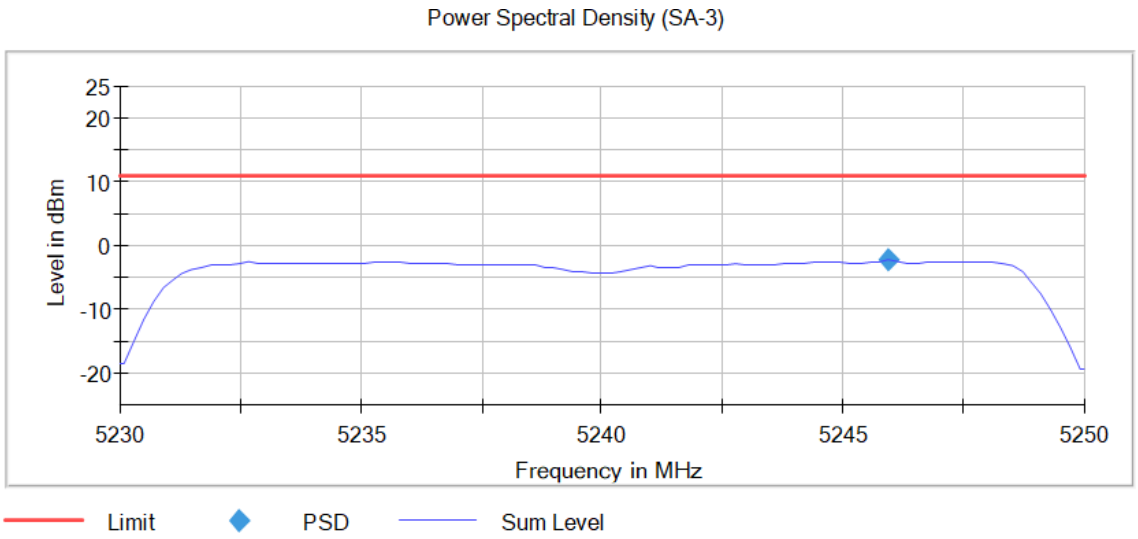
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

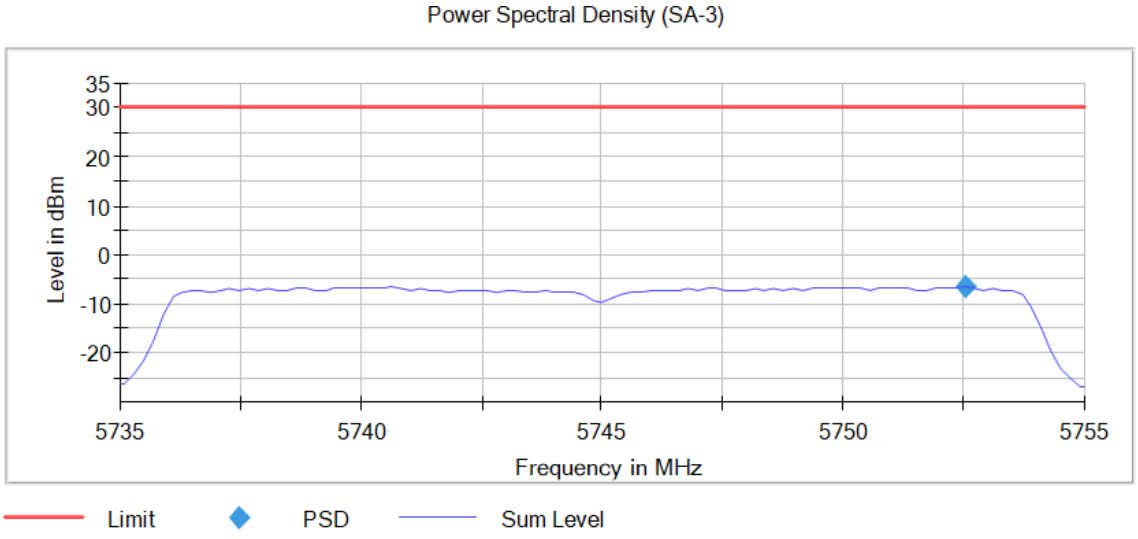


**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.25 dB | 0.50 dB |

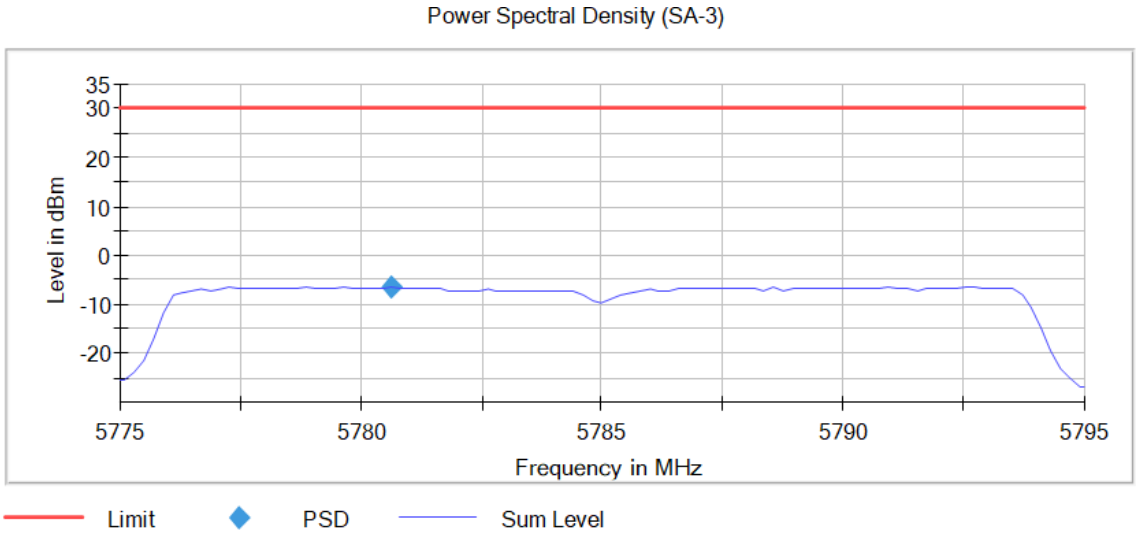
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



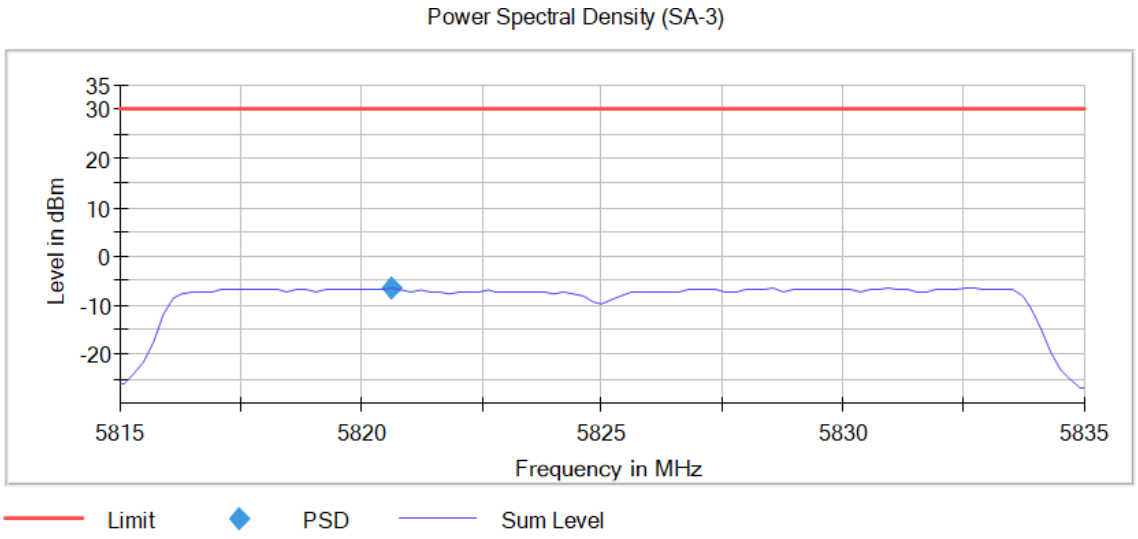

**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11n HT20 (OFDM MCS0 6.5 Mbit/s), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11n HT40 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 5194.356436 | -5.58 |
| 1+2 | 5230.00000 | No | 2 | 5234.356436 | -5.42 |
| 1+2 | 5755.00000 | No | 2 | 5752.625000 | -9.32 |
| 1+2 | 5795.00000 | No | 2 | 5779.875000 | -9.29 |

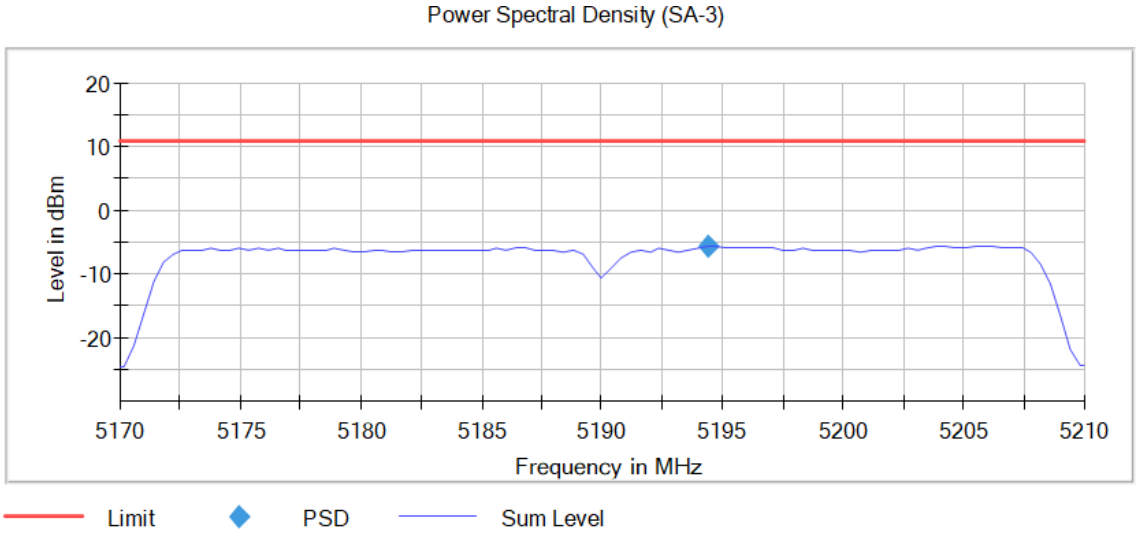
***Verdict***

Pass

***Attachments***

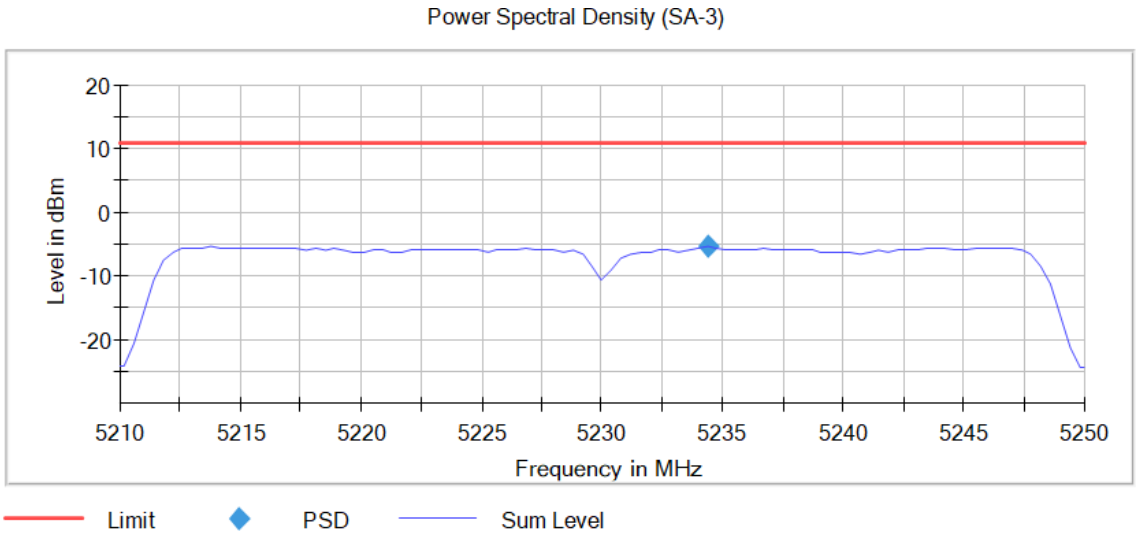
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



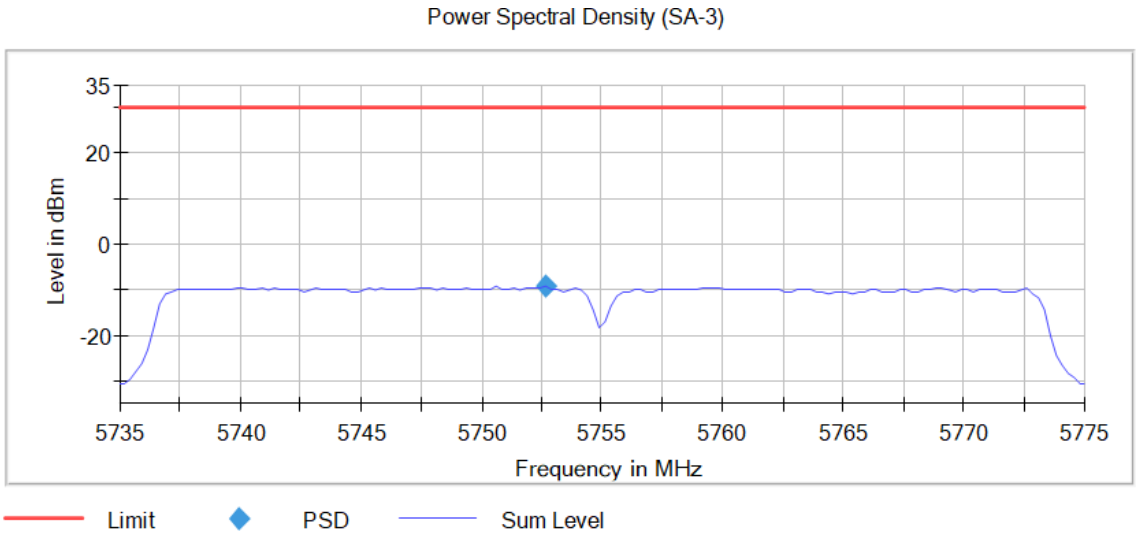

**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.25 dB | 0.50 dB |

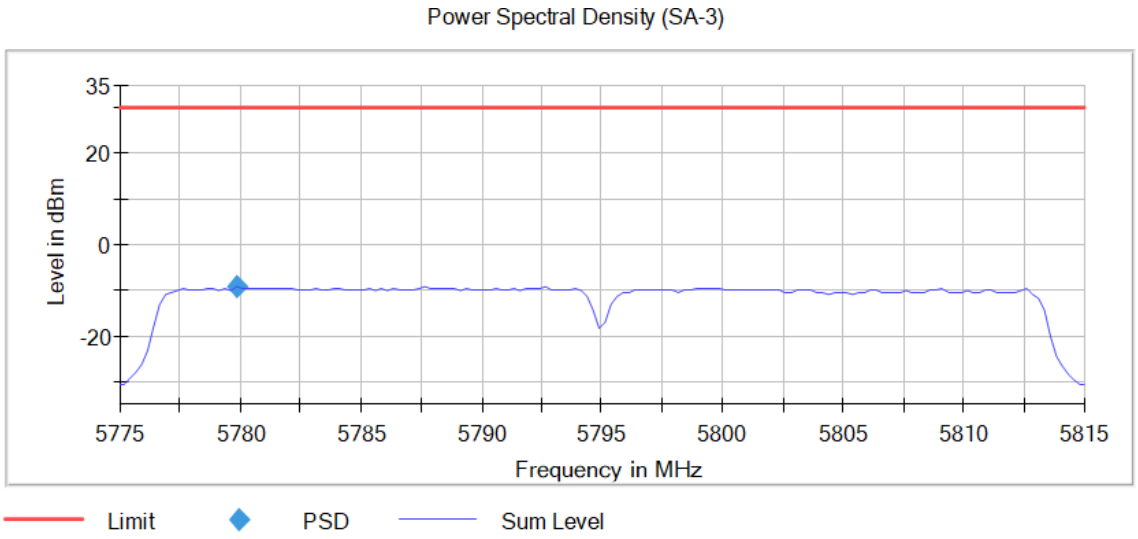
**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11n HT40 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT20 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 5186.336634 | -2.28 |
| 1+2 | 5200.00000 | No | 2 | 5196.633663 | -1.96 |
| 1+2 | 5240.00000 | No | 2 | 5236.633663 | -2.14 |
| 1+2 | 5745.00000 | No | 2 | 5741.633663 | -6.12 |
| 1+2 | 5785.00000 | No | 2 | 5779.059406 | -5.81 |
| 1+2 | 5825.00000 | No | 2 | 5829.752475 | -6.14 |

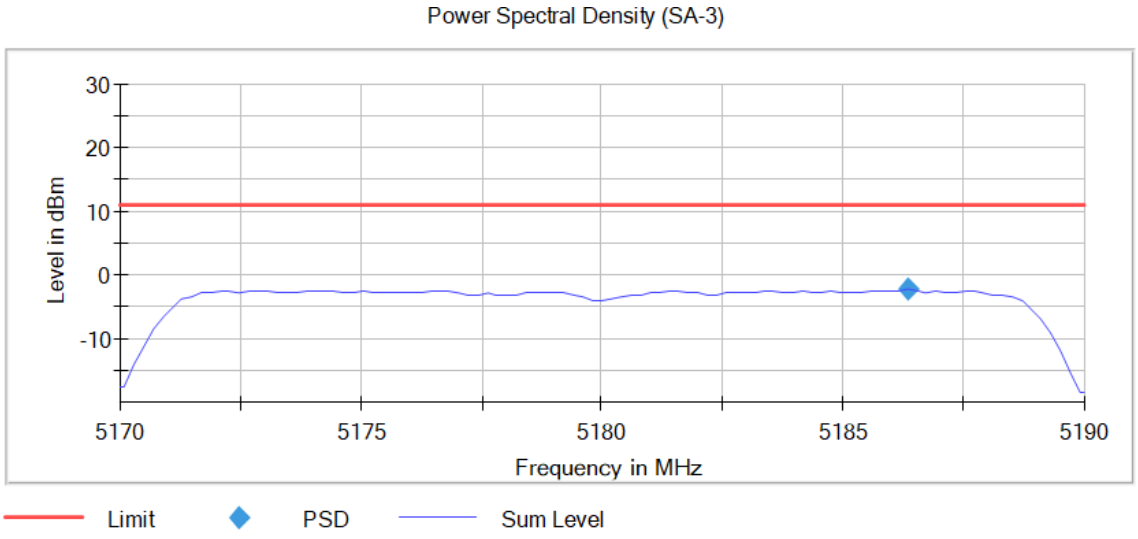
***Verdict***

Pass

***Attachments***

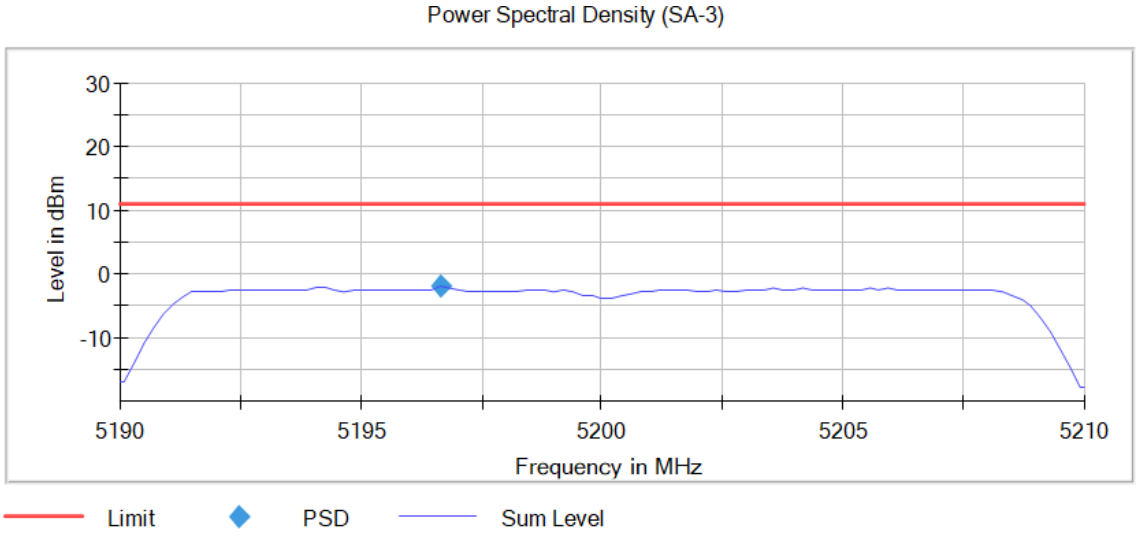
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



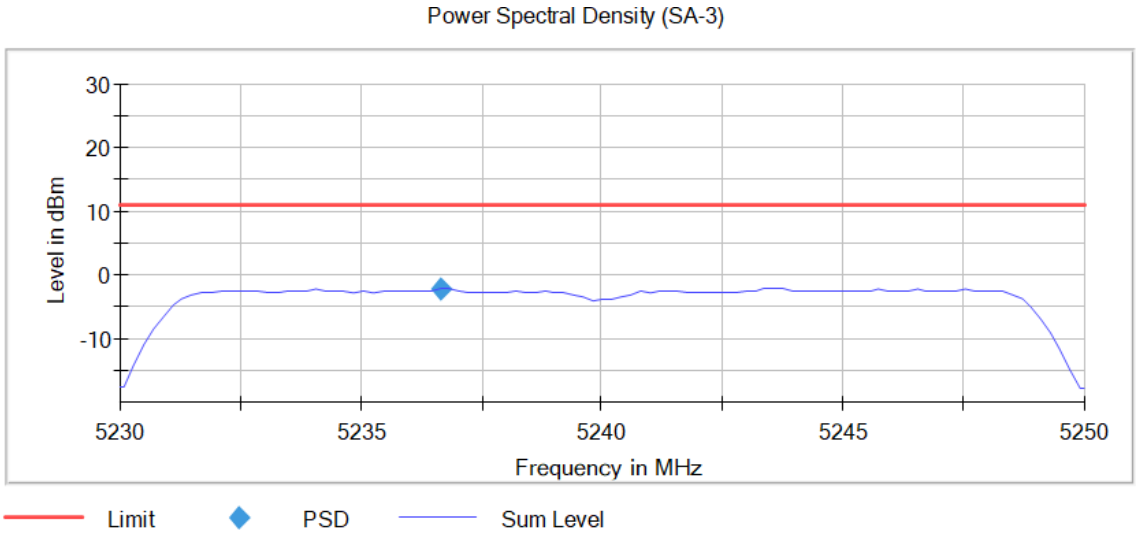
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



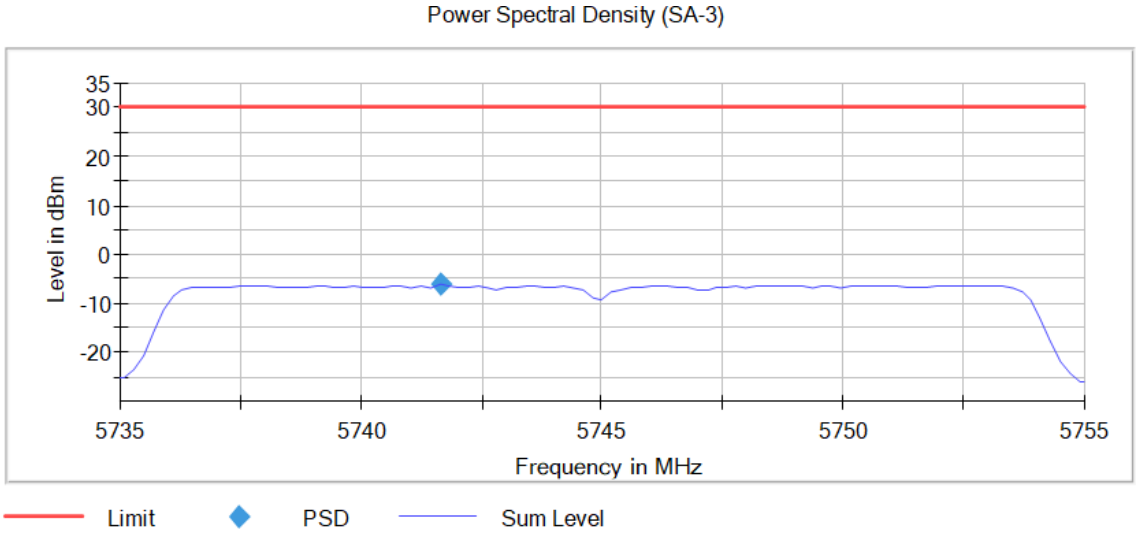
**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 101 | ~ 80 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 3 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.42 dB | 0.50 dB |

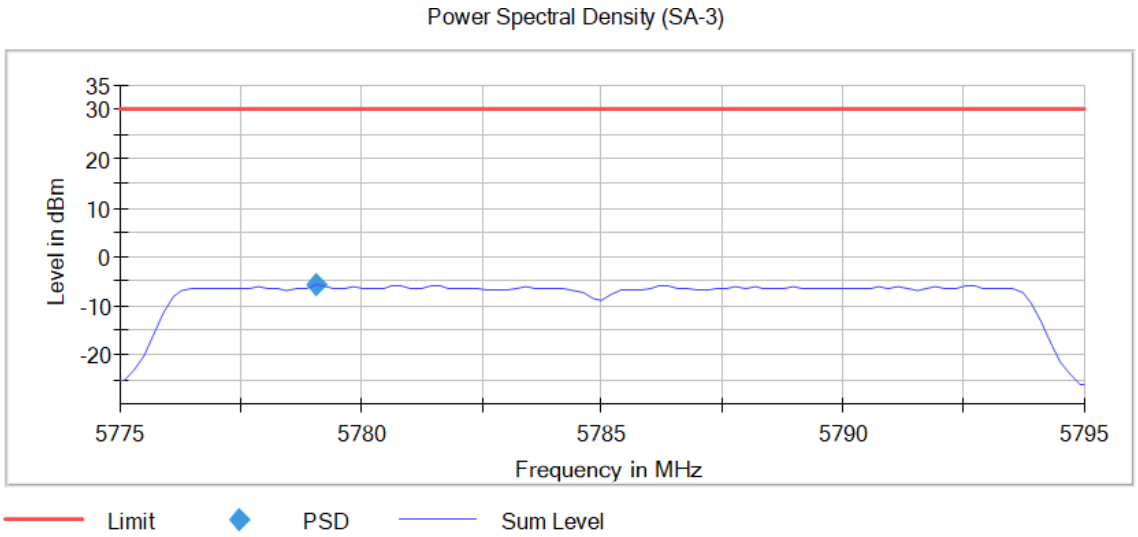
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

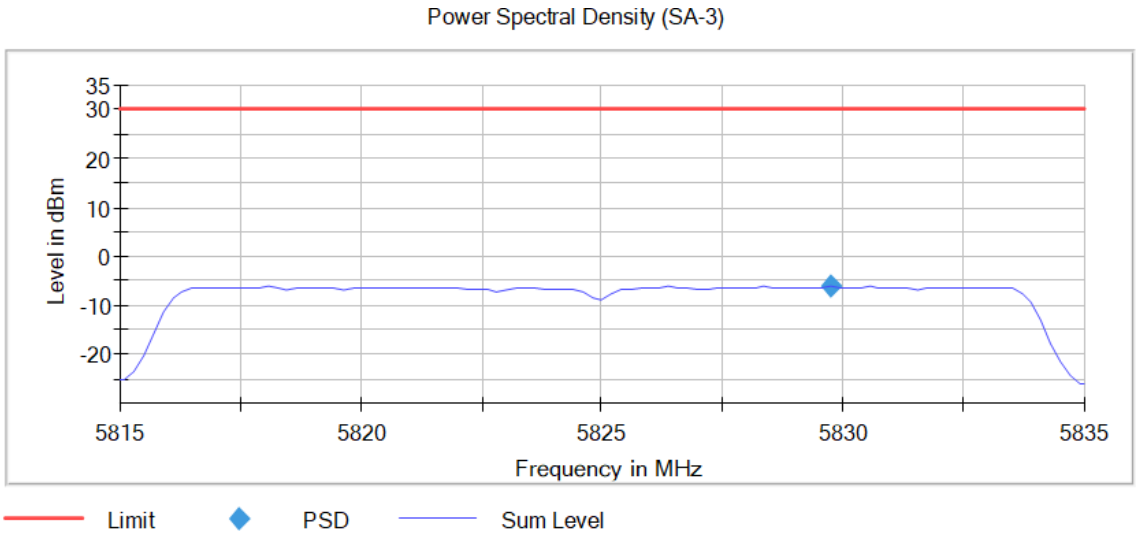
**Images:**




**Tables:**

**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ac VHT20 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT40 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 5174.158416 | -5.22 |
| 1+2 | 5230.00000 | No | 2 | 5214.158416 | -4.99 |
| 1+2 | 5755.00000 | No | 2 | 5739.125000 | -9.46 |
| 1+2 | 5795.00000 | No | 2 | 5778.875000 | -9.37 |

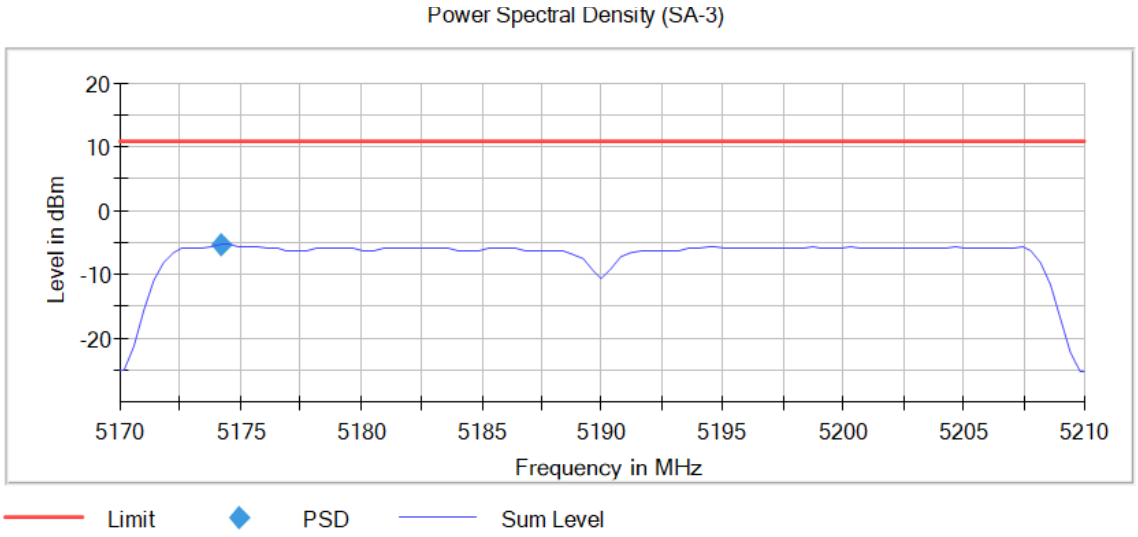
***Verdict***

Pass

***Attachments***

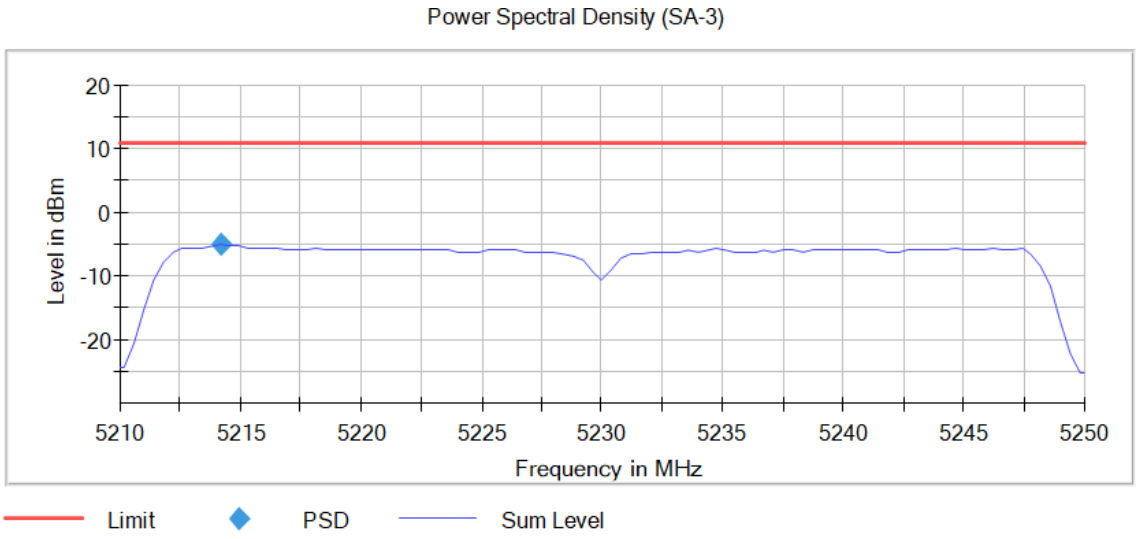
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



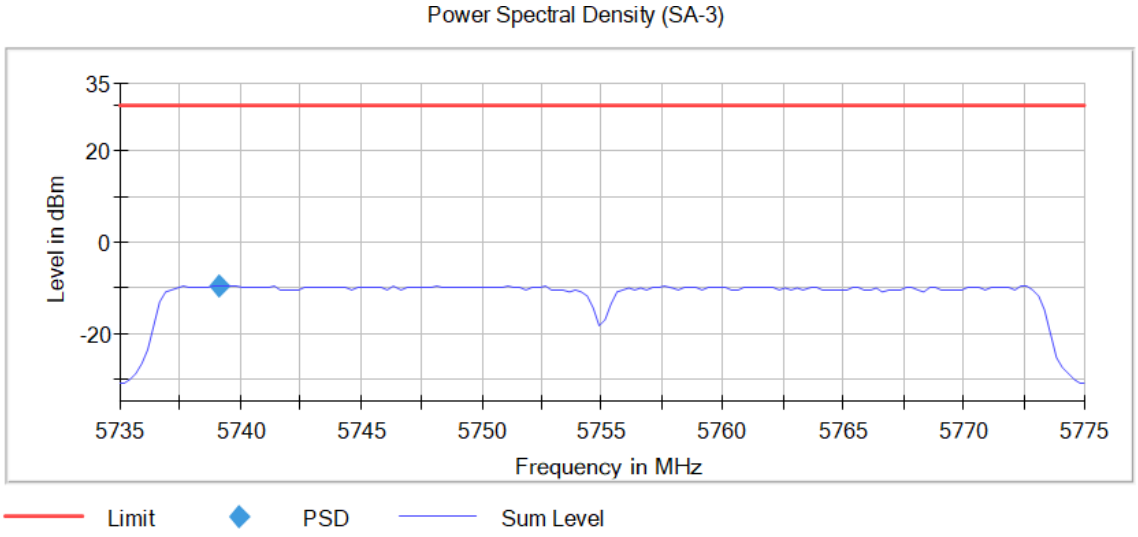

**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 80 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.22 dB | 0.50 dB |

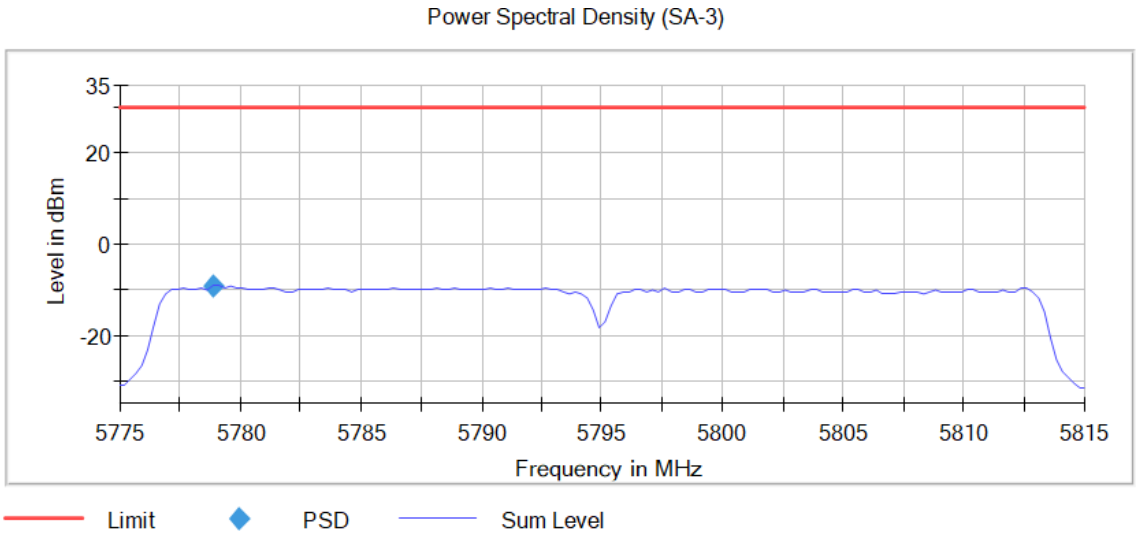
**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ac VHT40 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ac VHT80 SS1 (OFDM MCS0)

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 5186.750000 | -11.27 |
| 1+2 | 5775.00000 | No | 2 | 5812.625000 | -12.64 |

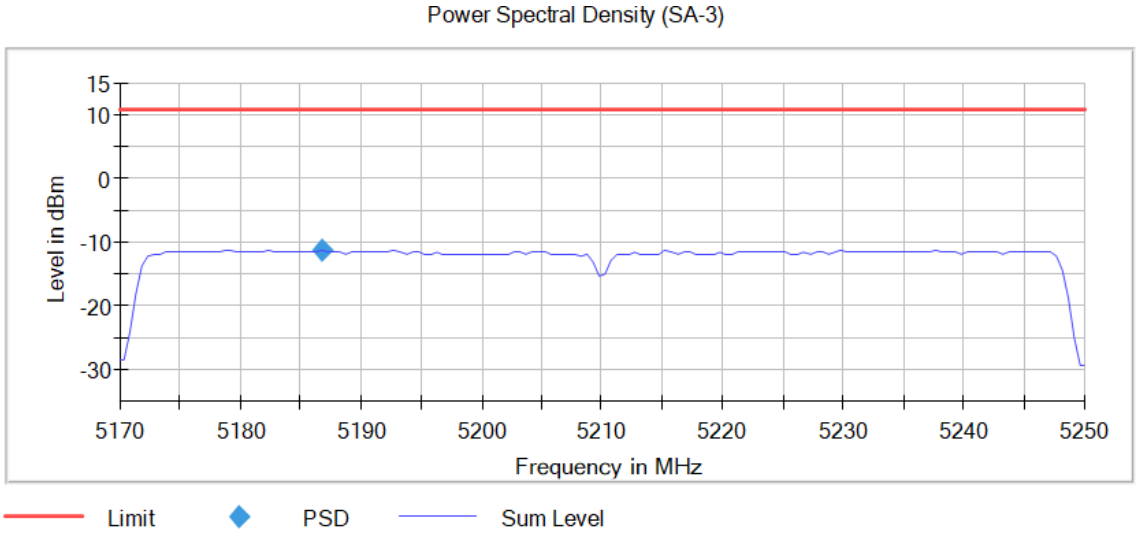
***Verdict***

Pass

***Attachments***

**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



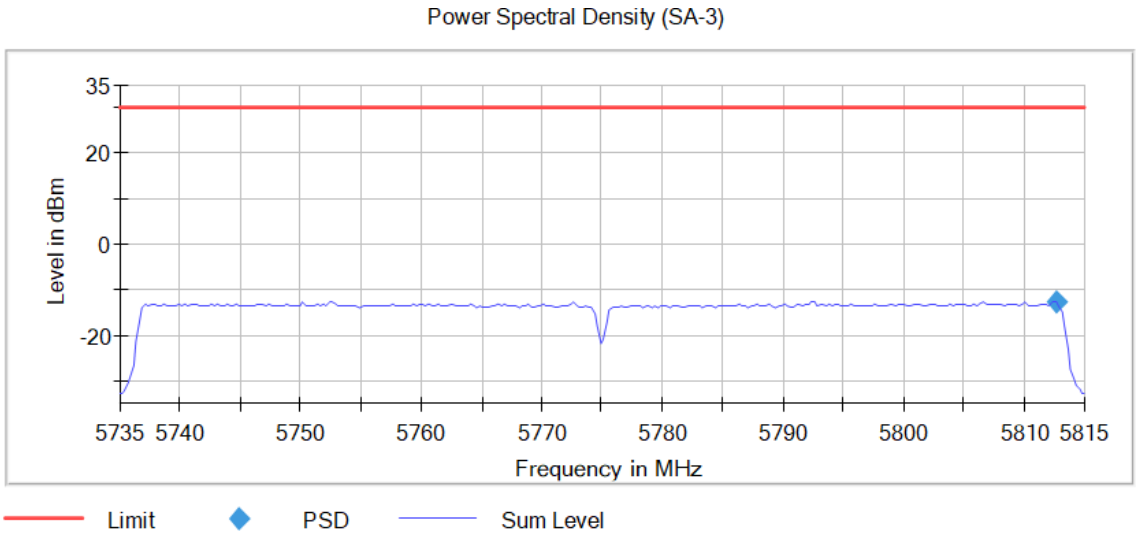
**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 160 | ~ 160 |
| Sweeptime | 3.200 ms | 3.200 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 18750 | 18750 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.19 dB | 0.50 dB |

**Active Port = 1+2, Frequency MHz = 5775.00000, Modulation = 802.11ac VHT80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE20 (OFDMA MCS0)- Full RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 5187.524752 | -4.85 |
| 1+2 | 5200.00000 | No | 2 | 5199.207921 | 2.17 |
| 1+2 | 5240.00000 | No | 2 | 5247.524752 | -4.58 |
| 1+2 | 5745.00000 | No | 2 | 5752.524752 | -7.56 |
| 1+2 | 5785.00000 | No | 2 | 5785.792079 | -0.06 |
| 1+2 | 5825.00000 | No | 2 | 5832.524752 | -6.95 |

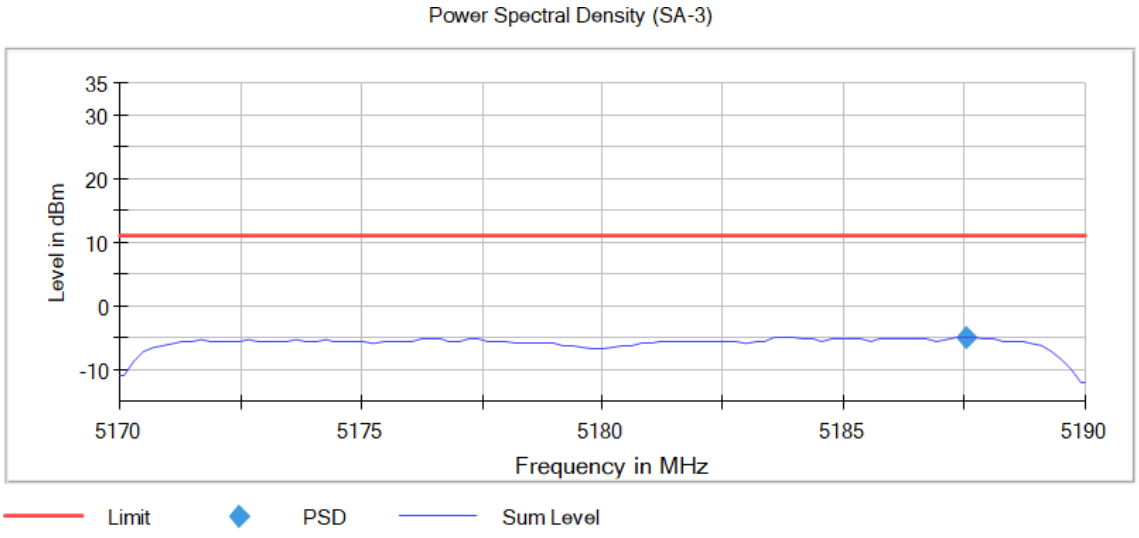
***Verdict***

Pass

***Attachments***

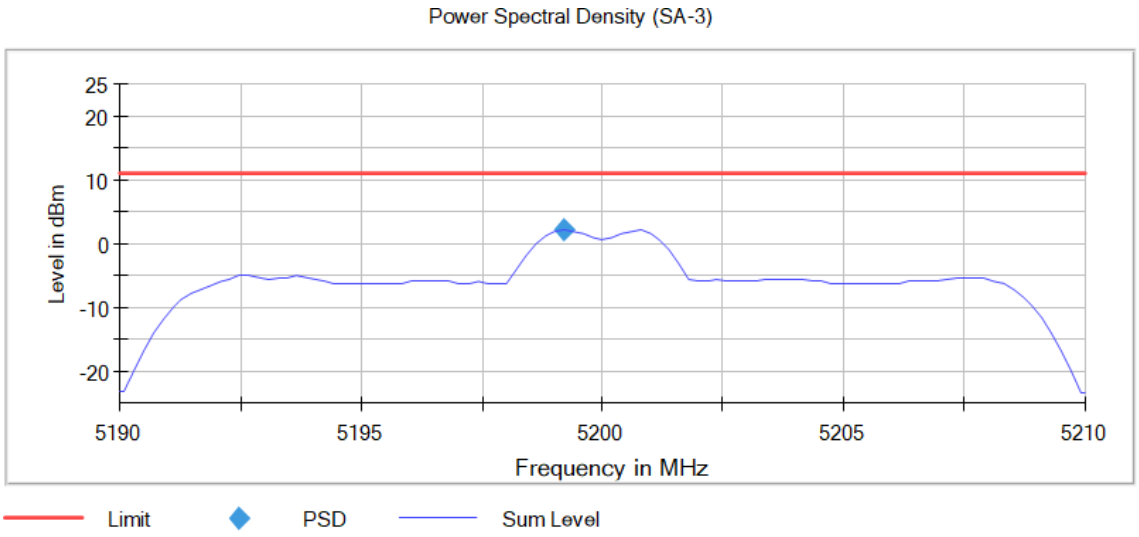
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



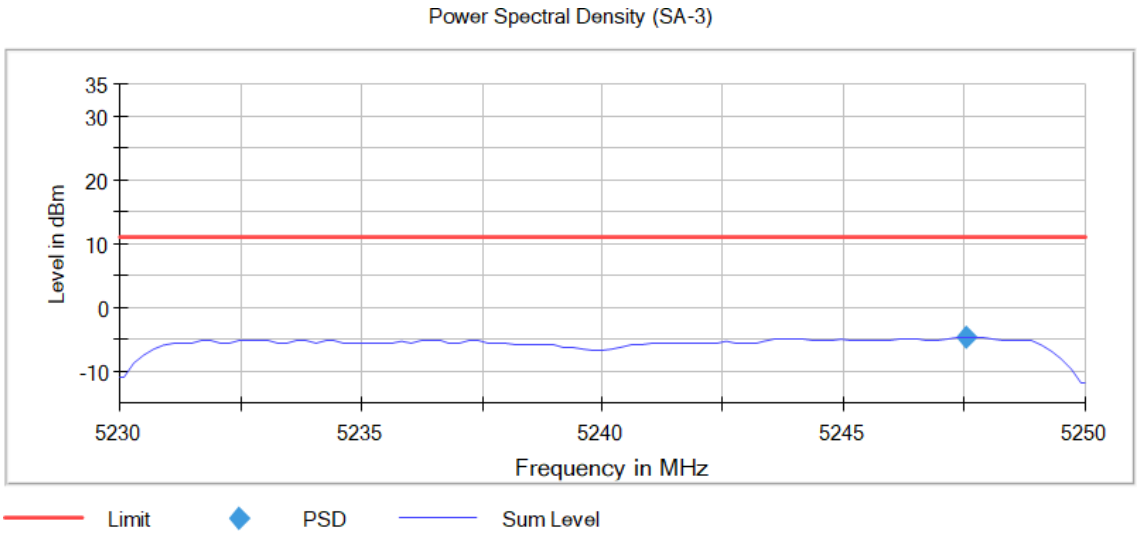
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

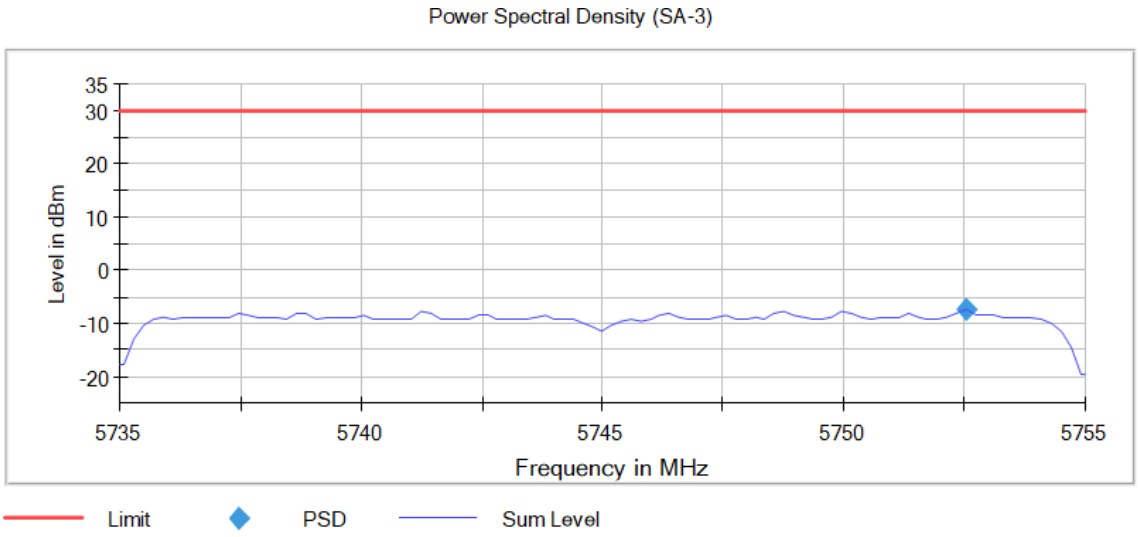


**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.11 dB | 0.50 dB |

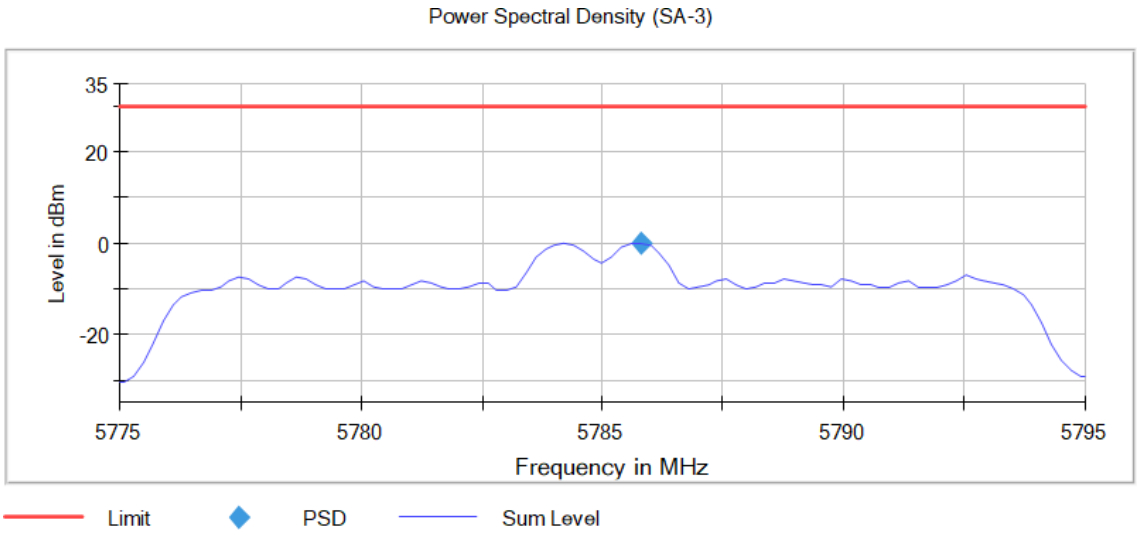
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



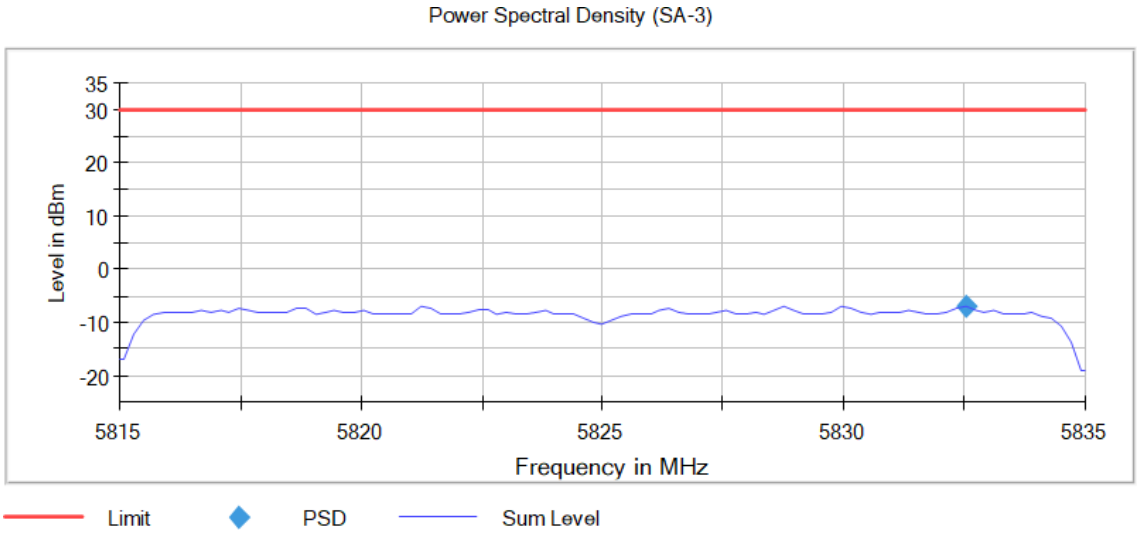

**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE20 (OFDMA MCS0)- Partial RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5180.00000 | No | 2 | 5171.485149 | 4.88 |
| 1+2 | 5200.00000 | No | 2 | 5199.207921 | 3.67 |
| 1+2 | 5240.00000 | No | 2 | 5248.514851 | 4.75 |
| 1+2 | 5745.00000 | No | 2 | 5736.287129 | -0.76 |
| 1+2 | 5785.00000 | No | 2 | 5784.207921 | -1.14 |
| 1+2 | 5825.00000 | No | 2 | 5833.514851 | -0.41 |

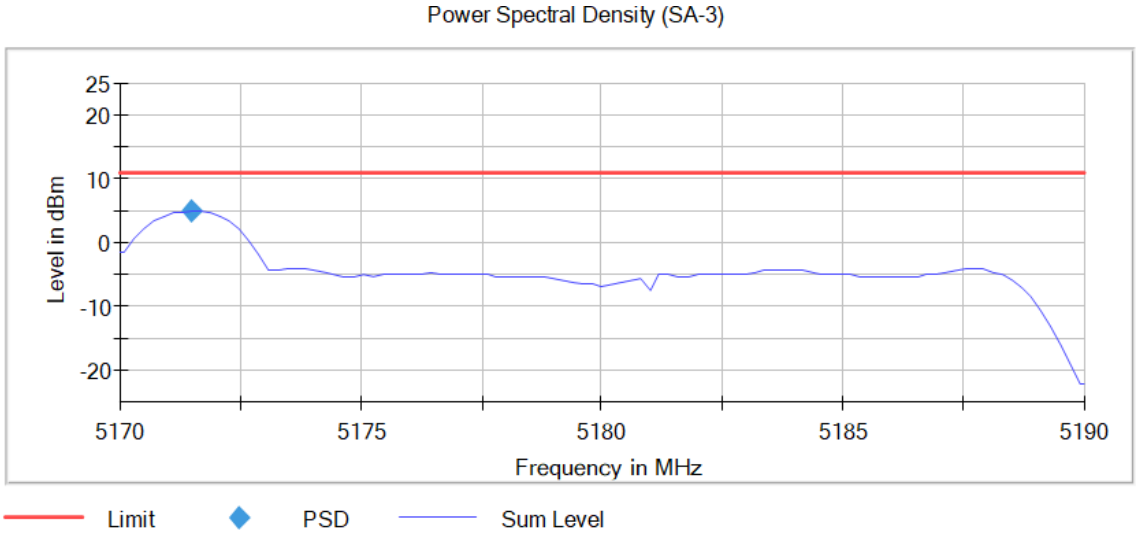
***Verdict***

Pass

***Attachments***

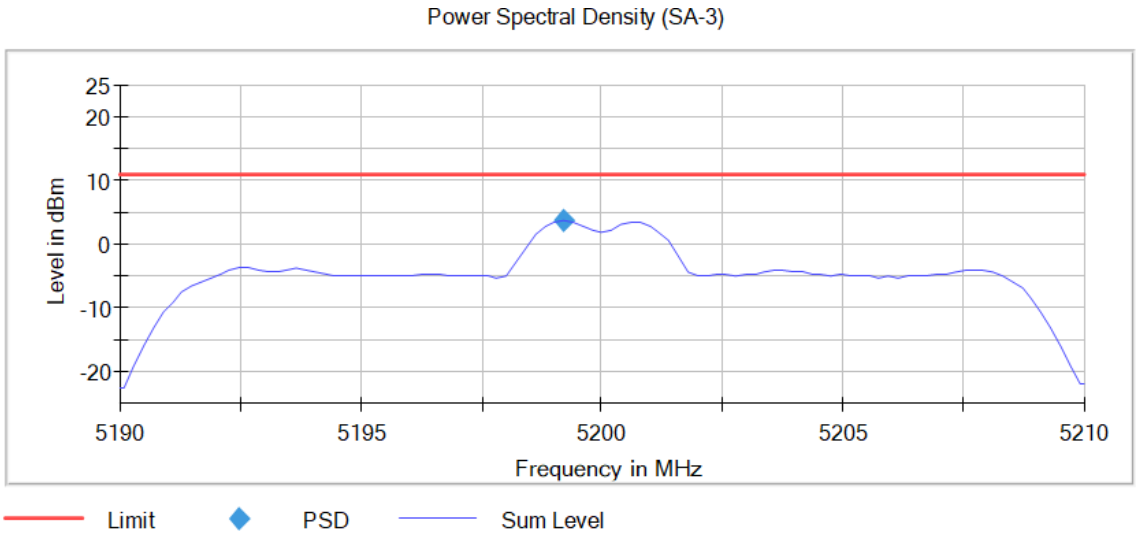
**Active Port = 1+2, Frequency MHz = 5180.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



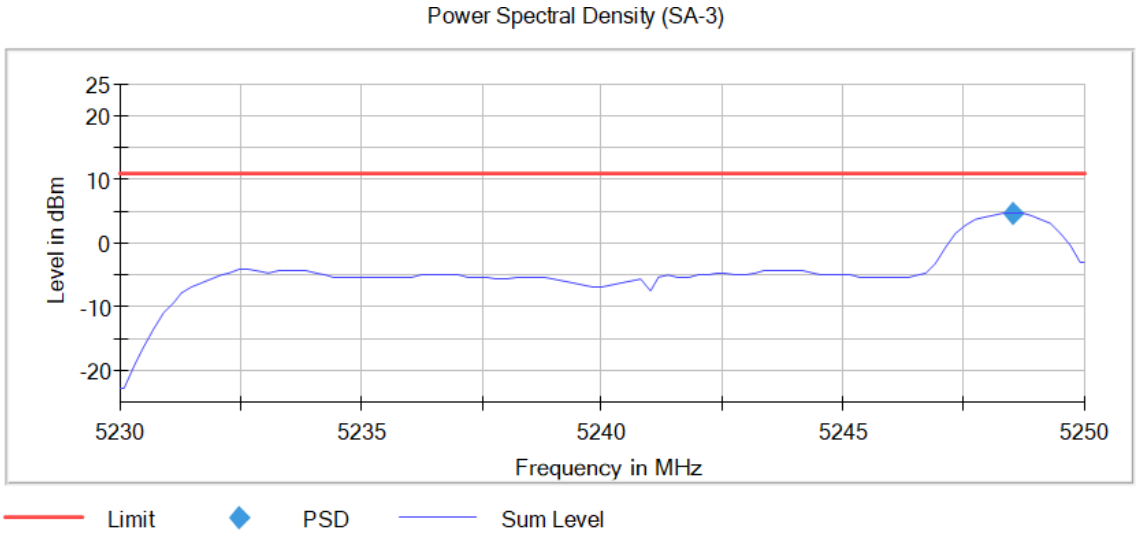
**Active Port = 1+2, Frequency MHz = 5200.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5240.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



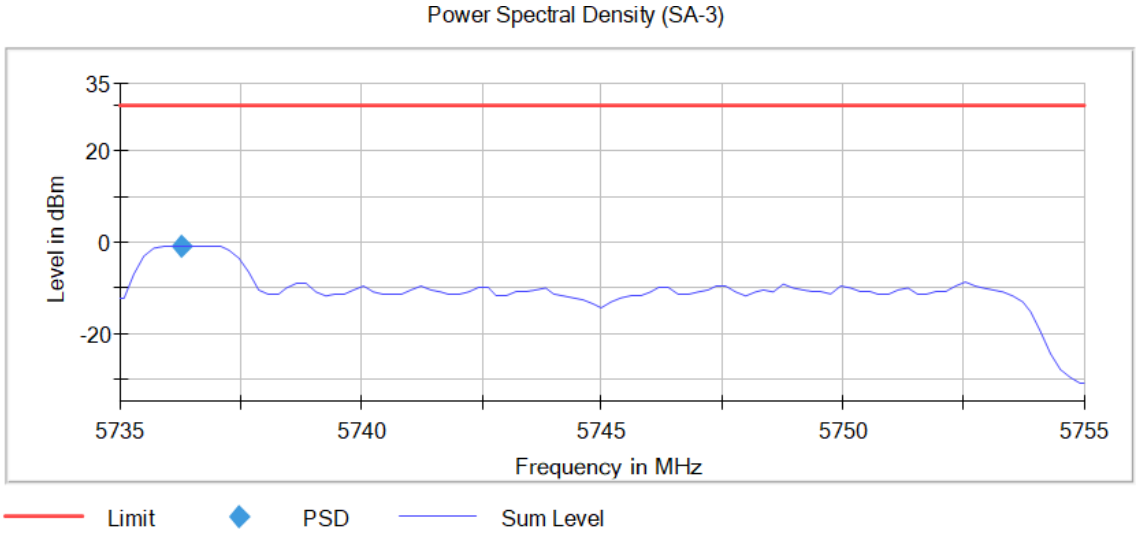
**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 40 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.11 dB | 0.50 dB |

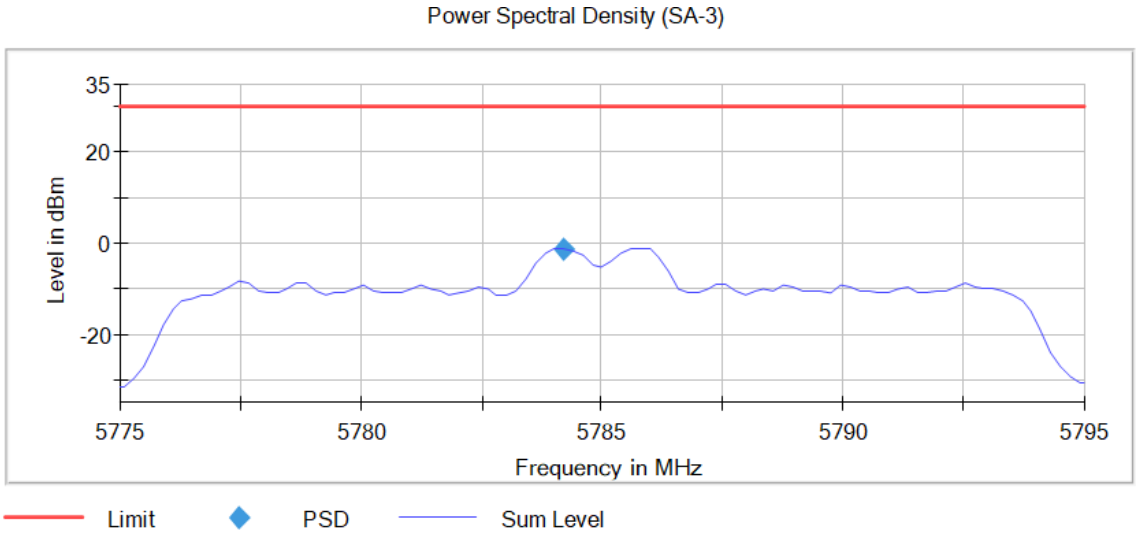
**Active Port = 1+2, Frequency MHz = 5745.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



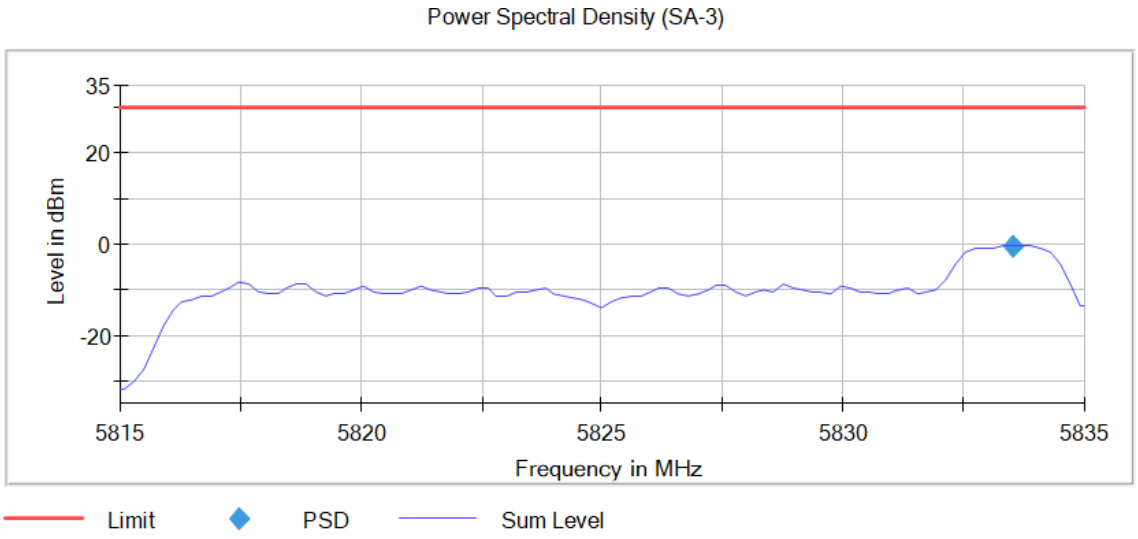

**Active Port = 1+2, Frequency MHz = 5785.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5825.00000, Modulation = 802.11ax HE20 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 20.000 MHz | 20.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE40 SS1 (OFDMA MCS0)- Full RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 5177.326733 | -7.81 |
| 1+2 | 5230.00000 | No | 2 | 5217.326733 | -7.60 |
| 1+2 | 5755.00000 | No | 2 | 5738.875000 | -10.84 |
| 1+2 | 5795.00000 | No | 2 | 5806.375000 | -10.17 |

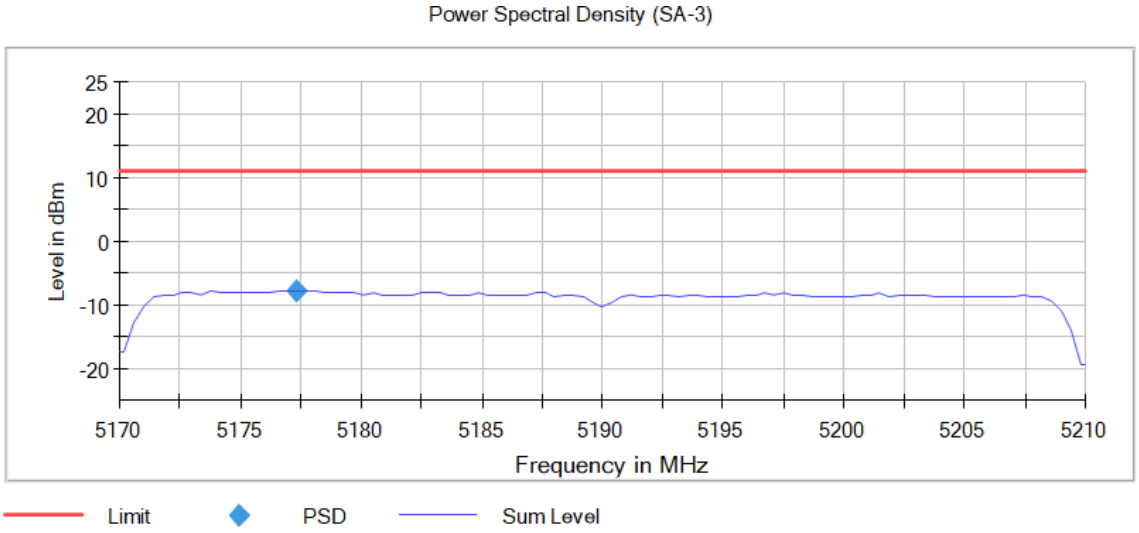
***Verdict***

Pass

***Attachments***

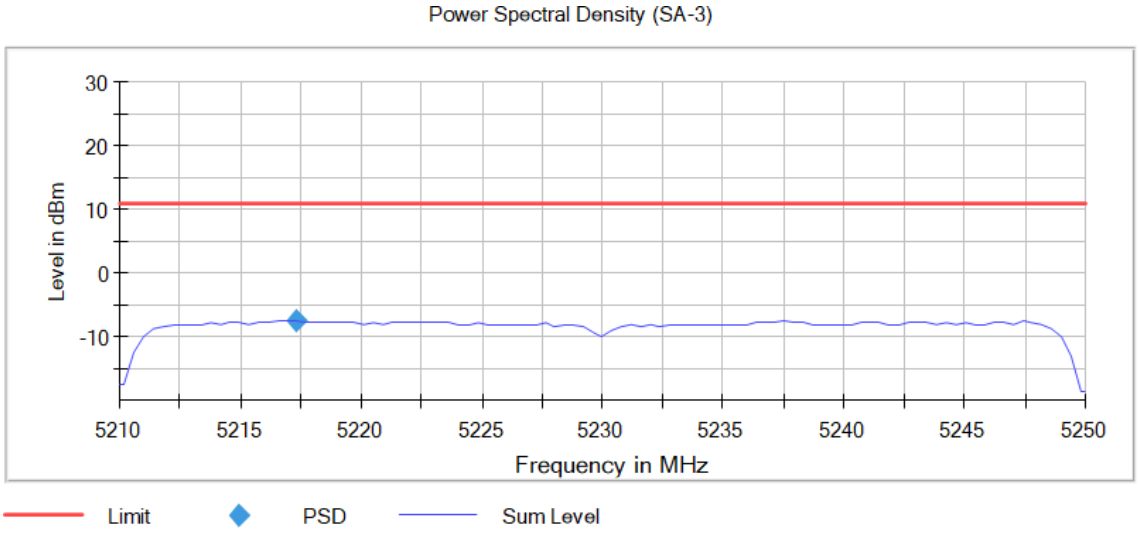
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



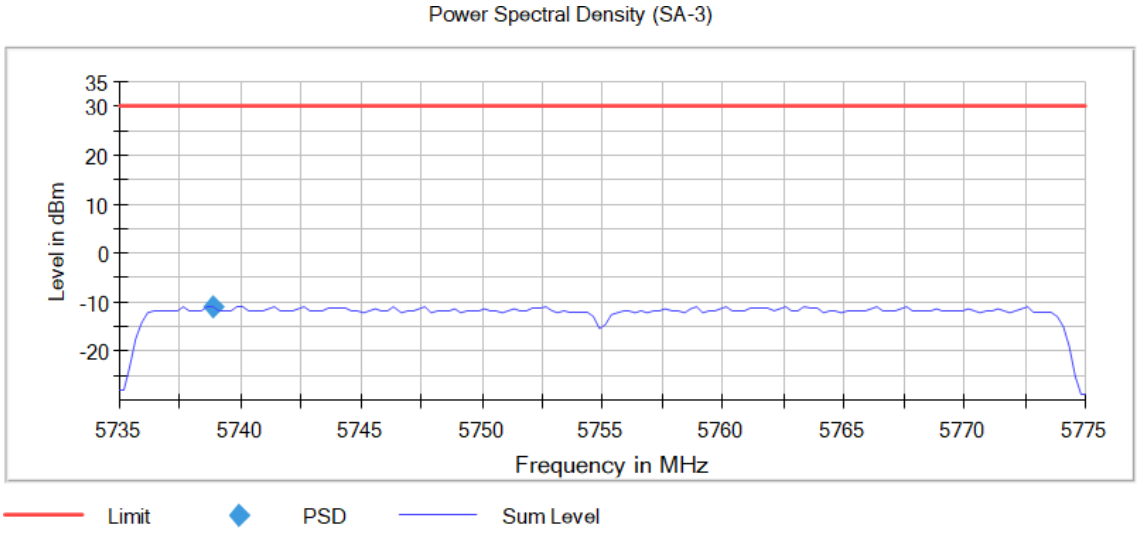

**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 80 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

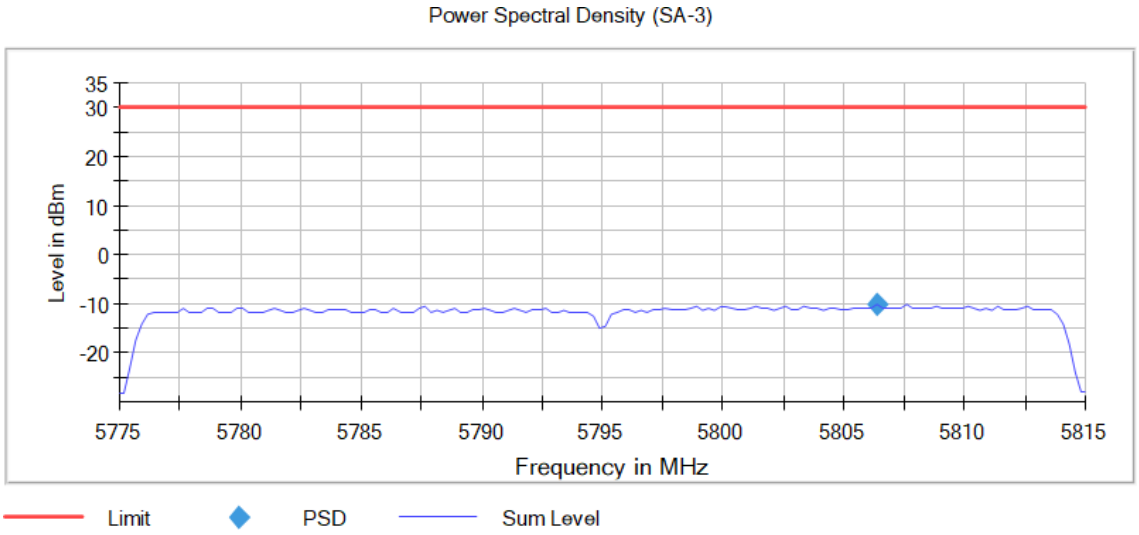
**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE40 (OFDMA MCS0)-Partial RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5190.00000 | No | 2 | 5191.584158 | 2.94 |
| 1+2 | 5230.00000 | No | 2 | 5247.821782 | 3.62 |
| 1+2 | 5755.00000 | No | 2 | 5737.375000 | 0.32 |
| 1+2 | 5795.00000 | No | 2 | 5813.125000 | -0.12 |

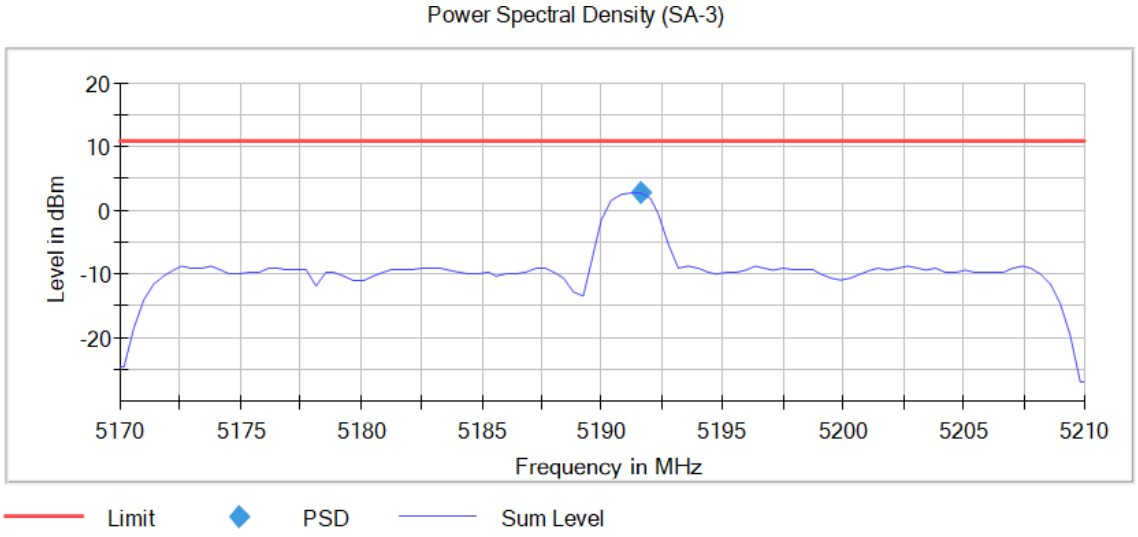
***Verdict***

Pass

***Attachments***

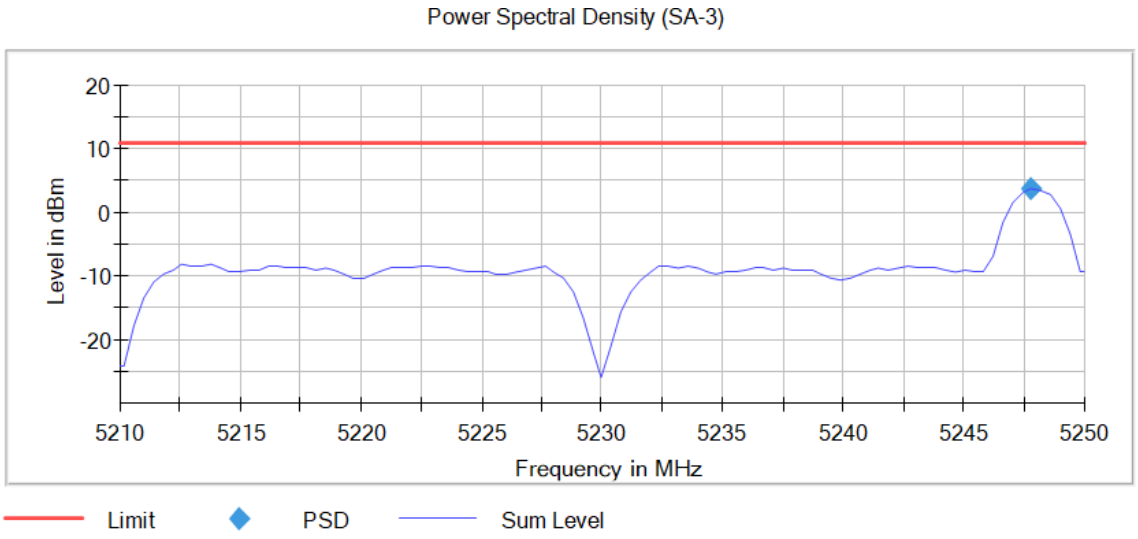
**Active Port = 1+2, Frequency MHz = 5190.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Active Port = 1+2, Frequency MHz = 5230.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



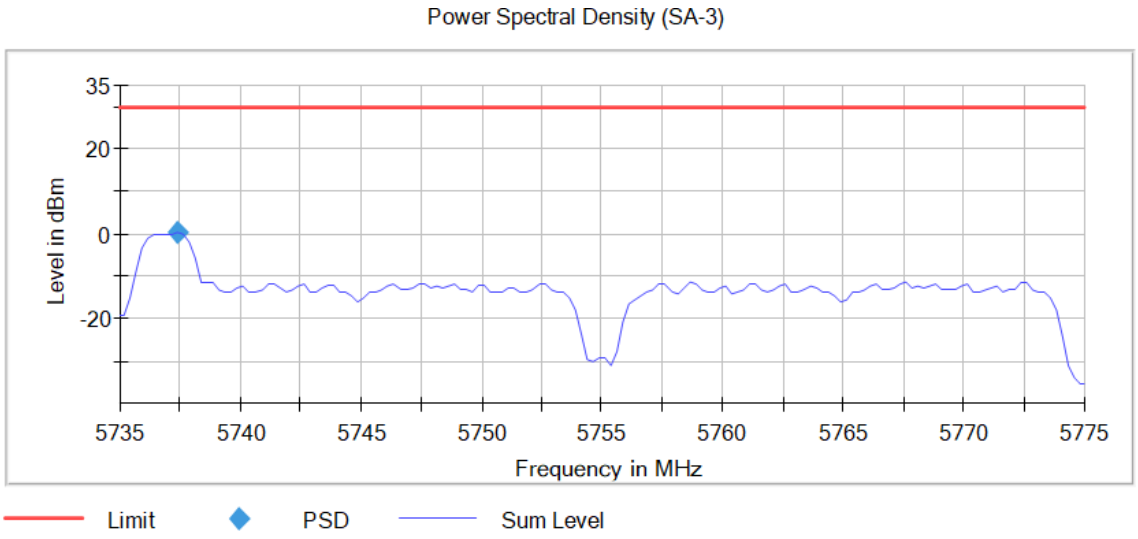

**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 101 | ~ 80 |
| Sweeptime | 2.020 ms | 2.020 ms |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 29703 | 29703 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.12 dB | 0.50 dB |

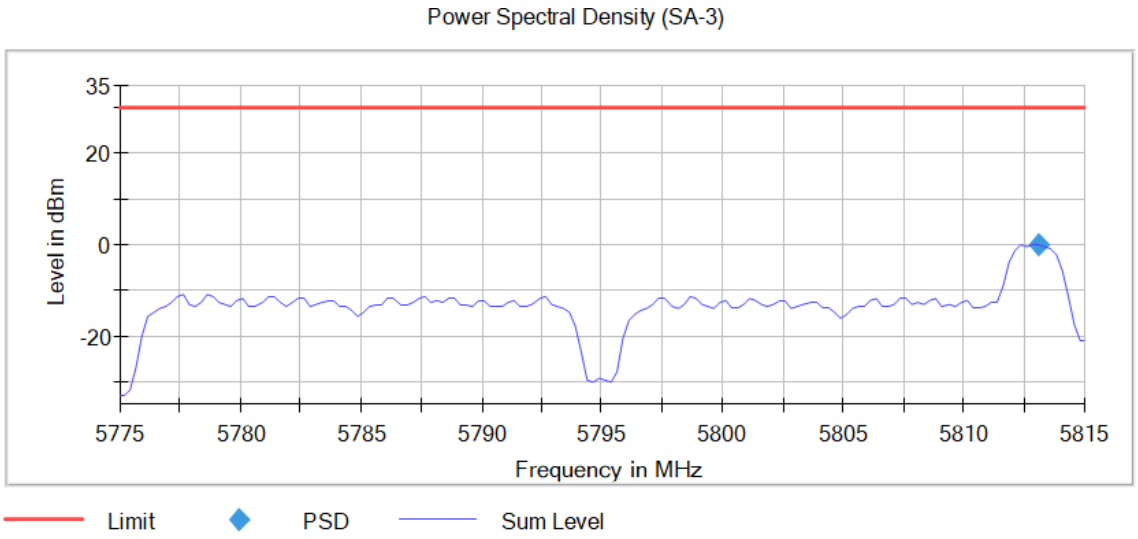
**Active Port = 1+2, Frequency MHz = 5755.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Active Port = 1+2, Frequency MHz = 5795.00000, Modulation = 802.11ax HE40 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**



**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 40.000 MHz | 40.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE80 SS1 (OFDM MCS0)- Full RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 5173.750000 | -11.82 |
| 1+2 | 5775.00000 | No | 2 | 5806.375000 | -13.85 |

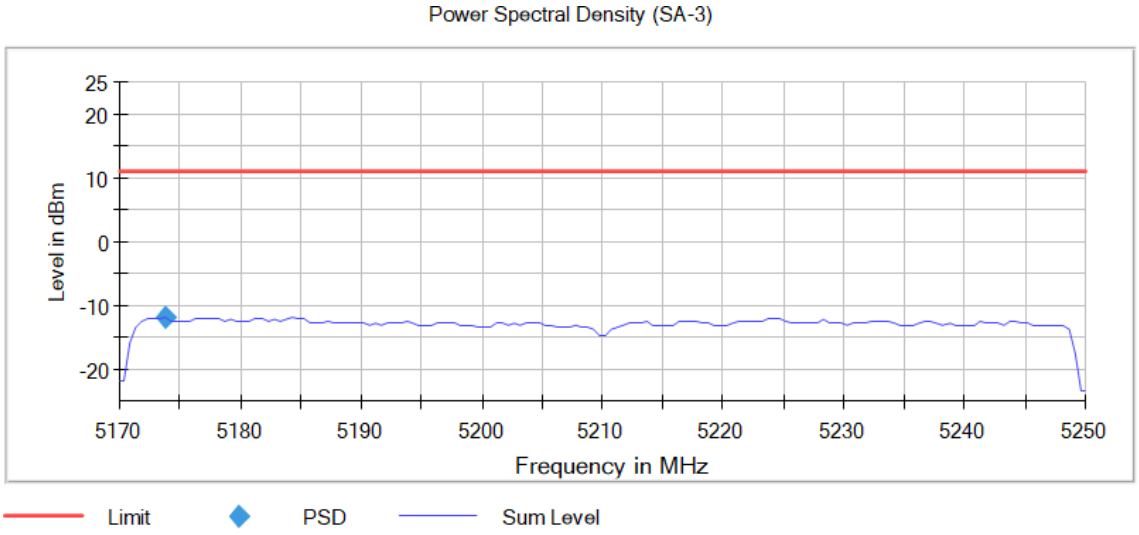
***Verdict***

Pass

***Attachments***

**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**

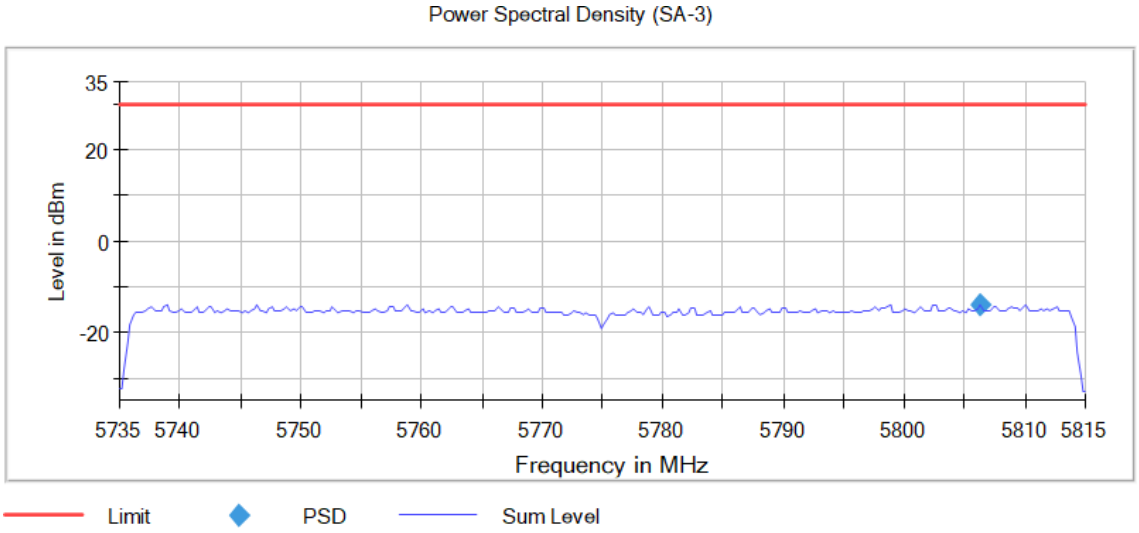


**Tables:**
Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 1.000 MHz | <= 1.000 MHz |
| VBW | 3.000 MHz | >= 3.000 MHz |
| SweepPoints | 160 | ~ 160 |
| Sweeptime | 3.200 ms | 3.200 ms |
| Reference Level | -10.000 dBm | -10.000 dBm |
| Attenuation | 10.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 18750 | 18750 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 2 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.00 dB | 0.50 dB |

**Active Port = 1+2, Frequency MHz = 5775.00000, Modulation = 802.11ax HE80 SS1 (OFDM MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**




**Tables:**

Spectrum Analyzer Parameters

| Setting | Instrument Value | Target Value |
|---|---|---|
| Span | 80.000 MHz | 80.000 MHz |
| RBW | 500.000 kHz | <= 500.000 kHz |
| VBW | 2.000 MHz | >= 1.500 MHz |
| SweepPoints | 320 | ~ 320 |
| Sweeptime | 6.400 ms | 6.400 ms |
| Reference Level | 0.000 dBm | 0.000 dBm |
| Attenuation | 20.000 dB | AUTO |
| Detector | RMS | RMS |
| SweepCount | 9375 | 9375 |
| Filter | 3 dB | 3 dB |
| Trace Mode | Max Hold | Max Hold |
| Sweeptype | Sweep | Sweep |
| Preamp | off | off |
| Stablemode | Trace | Trace |
| Stablevalue | 0.50 dB | 0.50 dB |
| Run | 4 / max. 15 | max. 15 |
| Stable | 1 / 1 | 1 |
| Max Stable Difference | 0.21 dB | 0.50 dB |

MIMO Mode: MIMO CCD Mode 2x2

Modulation: 802.11ax HE80 SS1 (OFDMA MCS0)- Partial RU

***Results***

| Port | Freq (MHz) | TPC | # of Tx Chains | Freq (MHz) | PSD (dBm) |
|---|---|---|---|---|---|
| 1+2 | 5210.00000 | No | 2 | 5171.750000 | 5.19 |
| 1+2 | 5775.00000 | No | 2 | 5737.375000 | -0.54 |

***Verdict***

Pass

***Attachments***

**Active Port = 1+2, Frequency MHz = 5210.00000, Modulation = 802.11ax HE80 SS1 (OFDMA MCS0), TPC = No, MIMO Mode = MIMO CCD Mode 2x2, Number of Transmission Chains = 2**

**Images:**