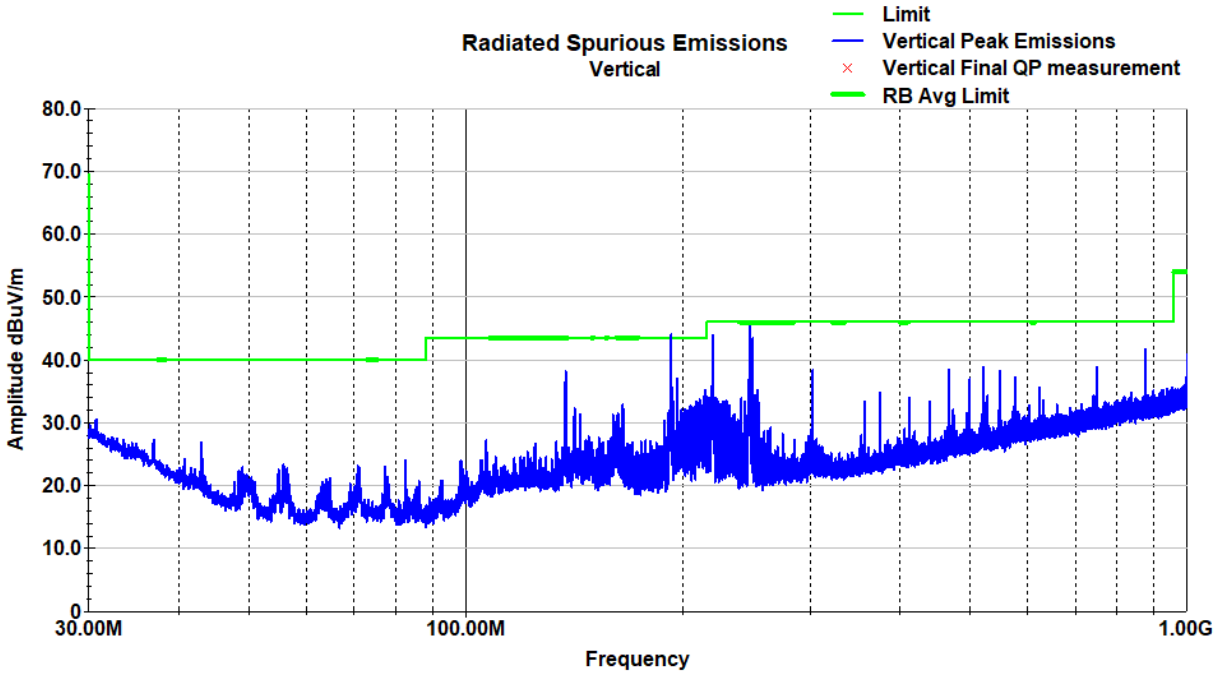
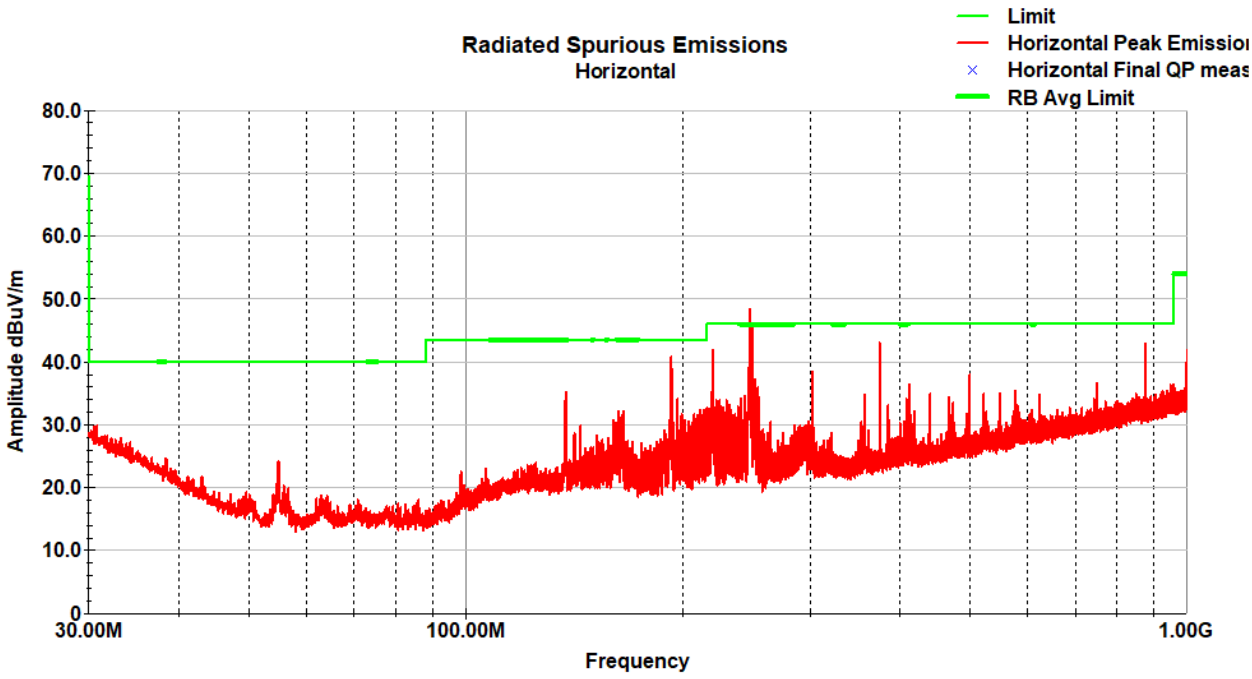
## 3.13 *Test Data: 10-inch Display – U-NII Band 1 – 802.11ac*

### 3.13.1 30-1000 MHz

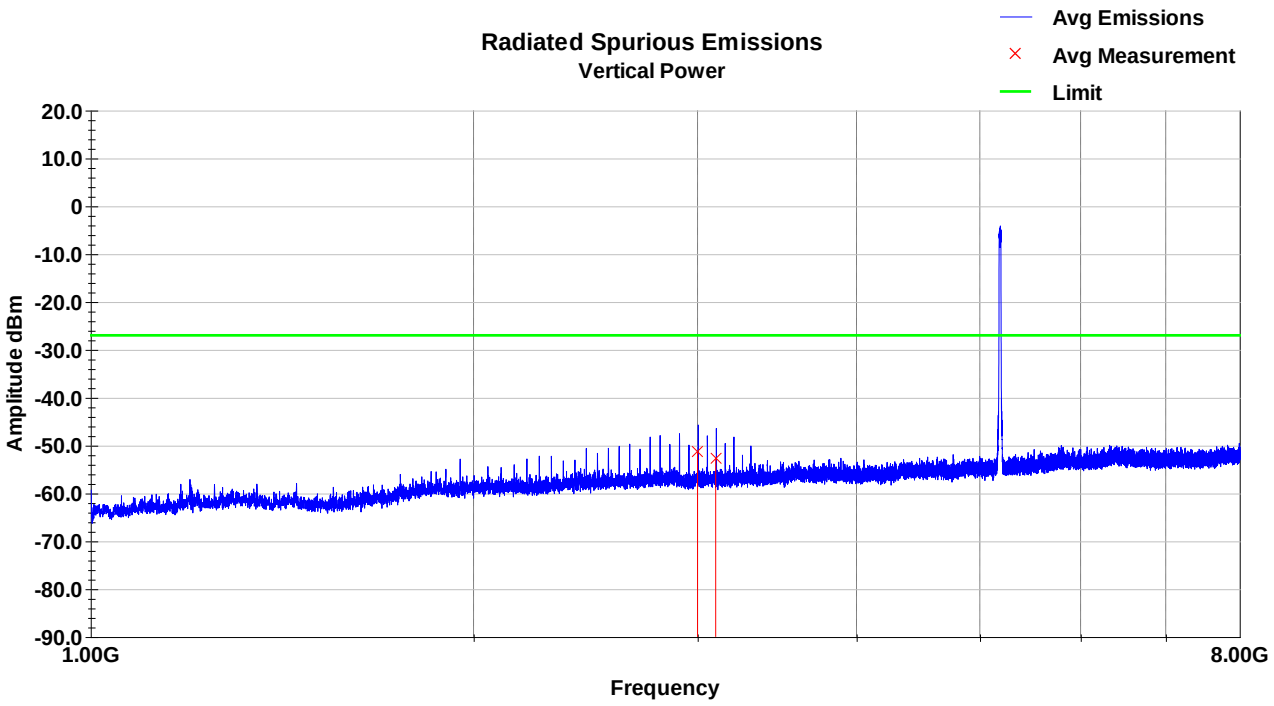
Emissions were confirmed to be non-radio emissions. All channels had similar plots (worst case shown).



### 3.13.2 1-18 GHz

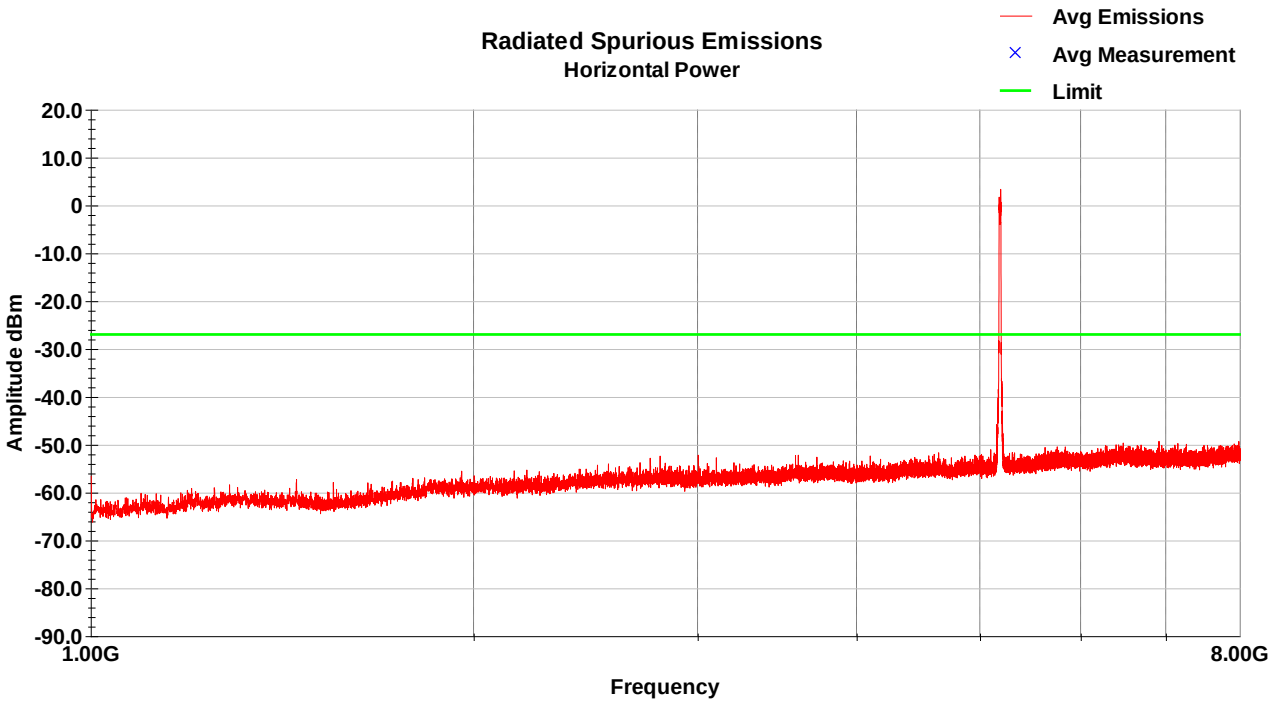
Vertical Plot – 1-8GHz – Low Channel




Vertical Data – 1-8GHz – Low Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2999.80 | -44.5 | V | 20.0 | 123.0 | 32.4 | 2.8 | 42.0 | -51.2 | -27.0 | -24.2 |
| 3100.16 | -46.4 | V | 351.0 | 127.0 | 32.8 | 2.8 | 41.9 | -52.7 | -27.0 | -25.7 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

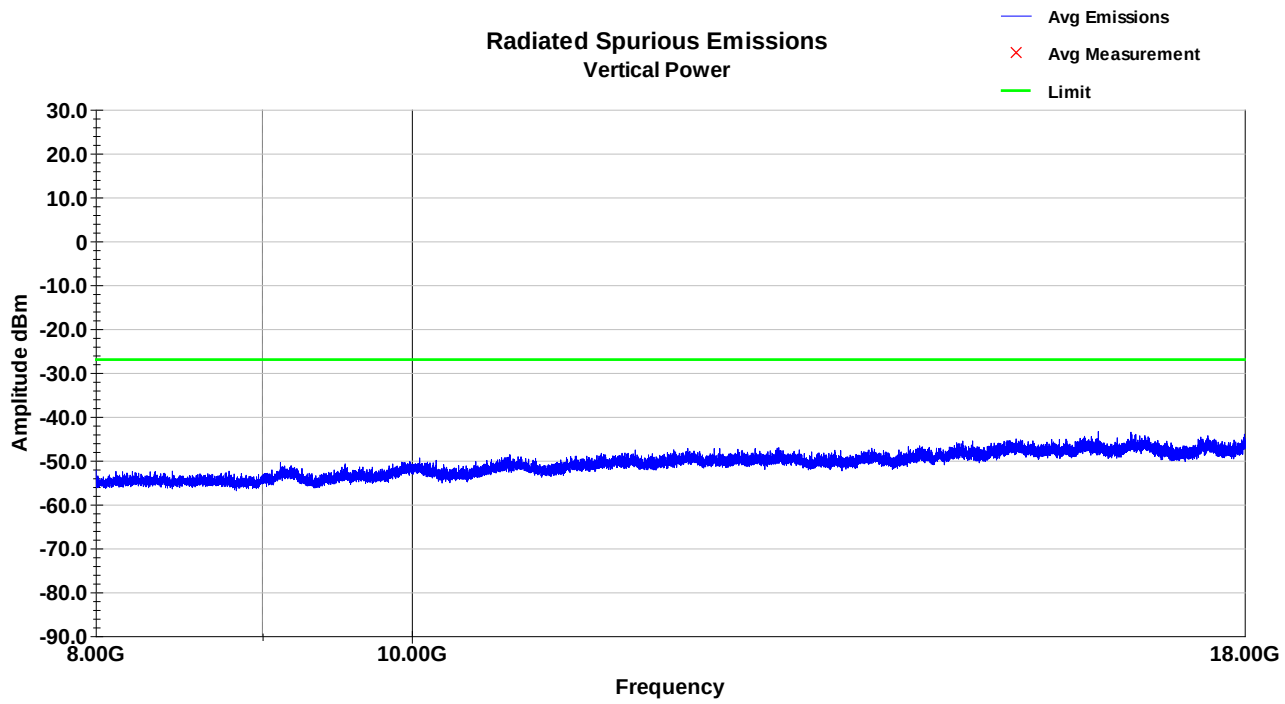
Horizontal Plot – 1-8GHz – Low Channel



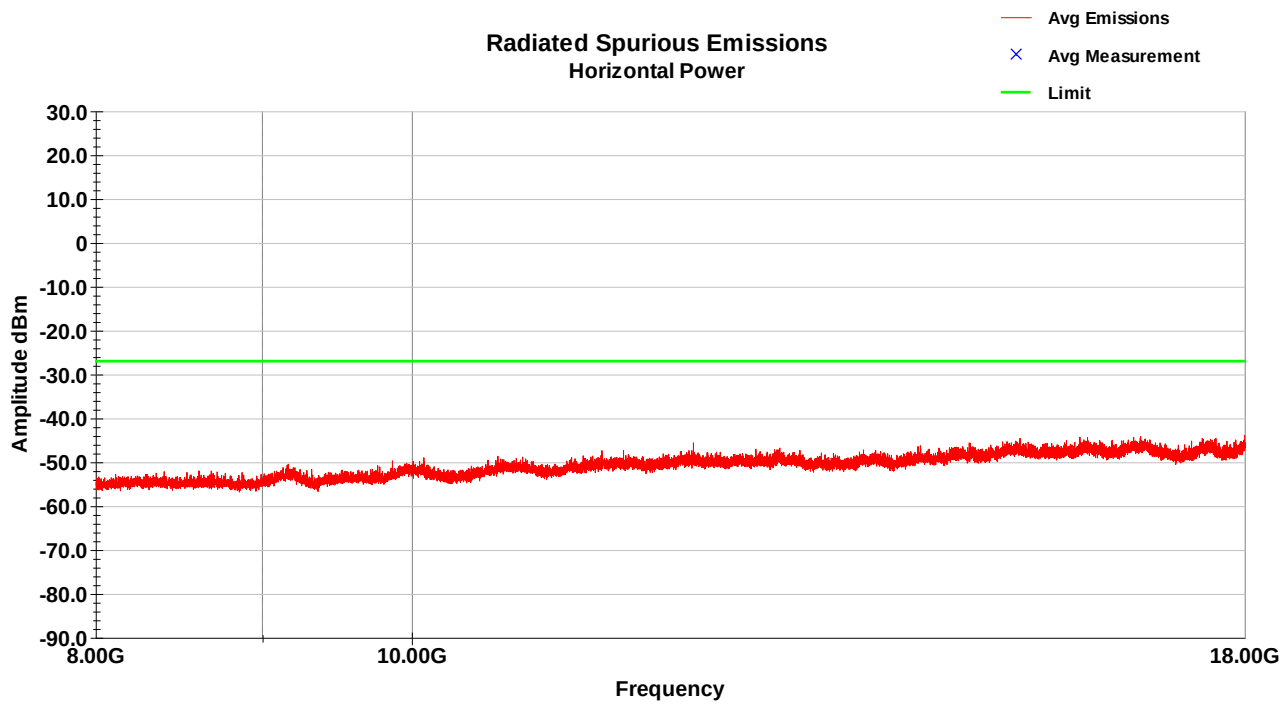

Horizontal Data – 1-8GHz – Low Channel

No emissions within 20dB of limit

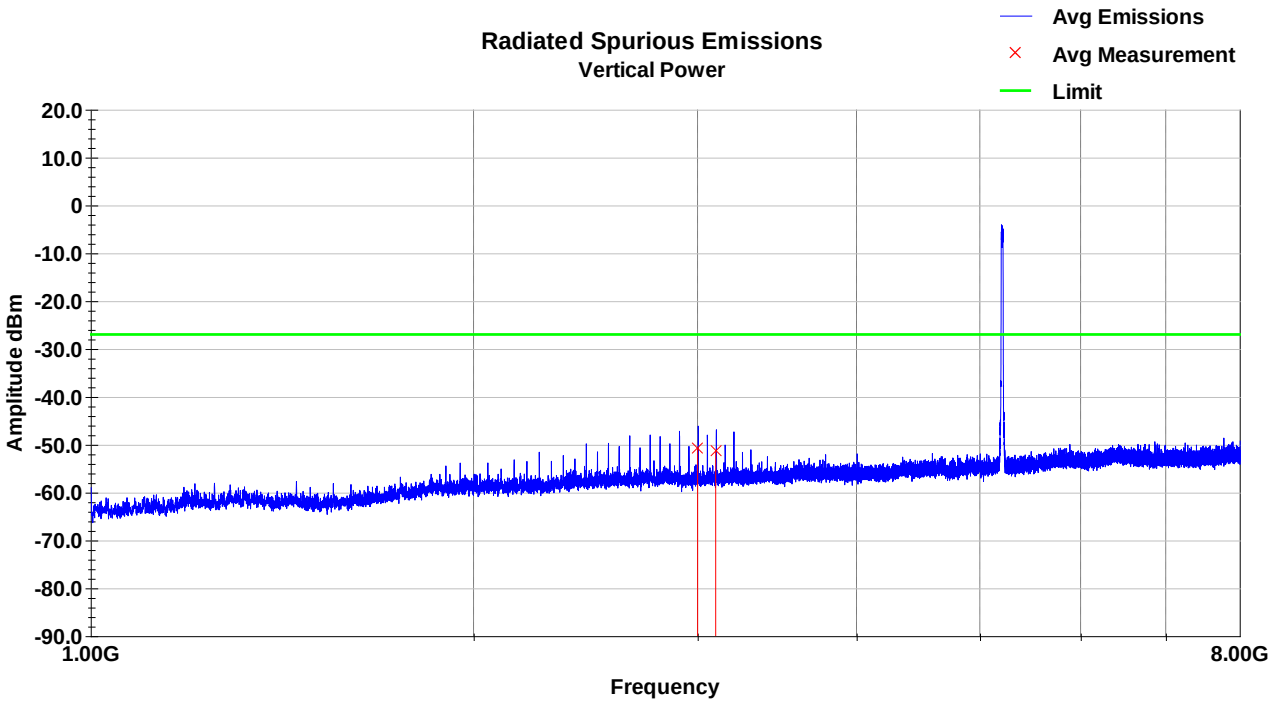
Vertical Plot – 8-18GHz – Low Channel




Horizontal Plot – 8-18GHz – Low Channel



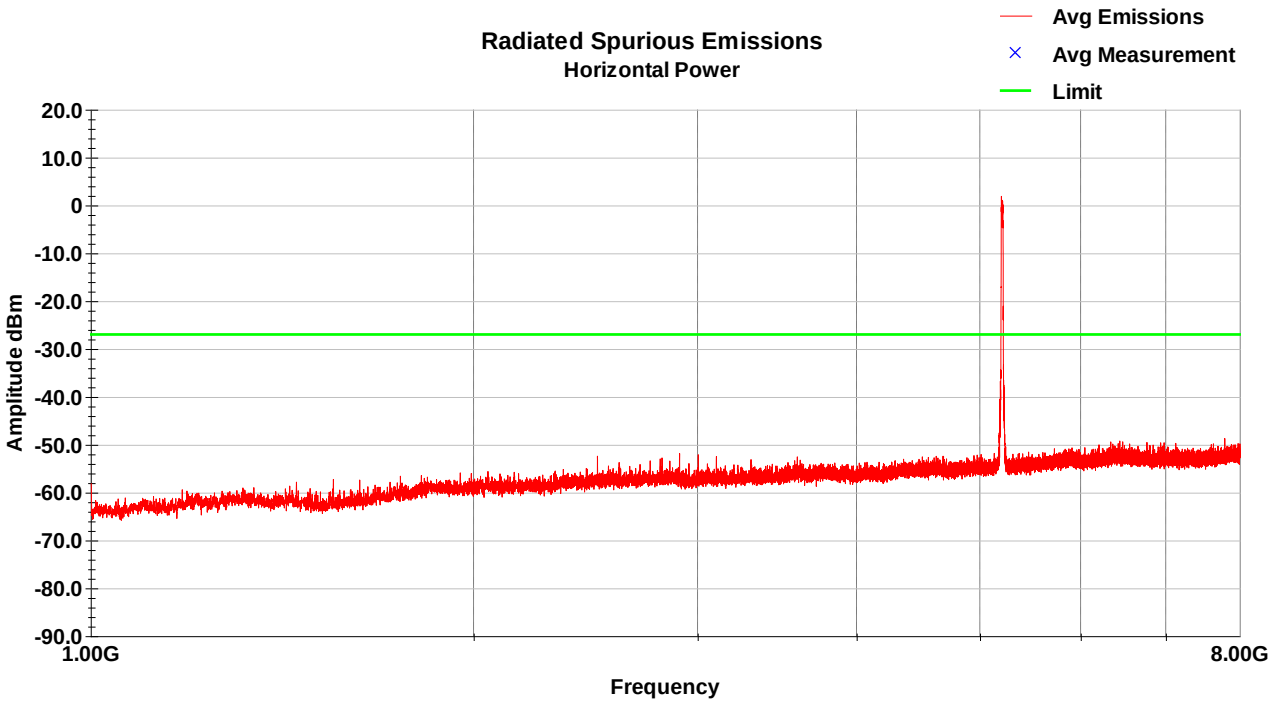
## Vertical Plot – 1-8GHz – Mid Channel




## Vertical Data – 1-8GHz – Mid Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 3000.04 | -43.9 | V | 32.0 | 125.0 | 32.4 | 2.8 | 42.0 | -50.7 | -27.0 | -23.7 |
| 3099.92 | -44.9 | V | 9.0 | 119.0 | 32.8 | 2.8 | 41.9 | -51.2 | -27.0 | -24.2 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

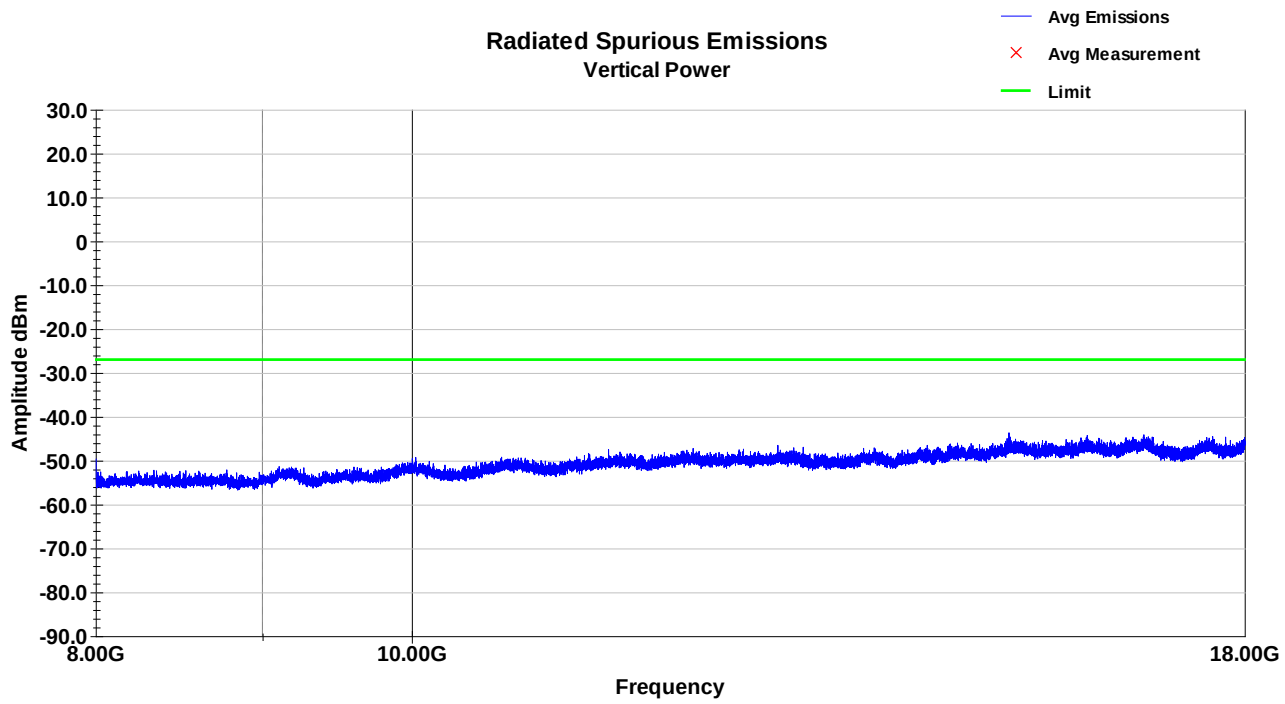
Horizontal Plot – 1-8GHz – Mid Channel



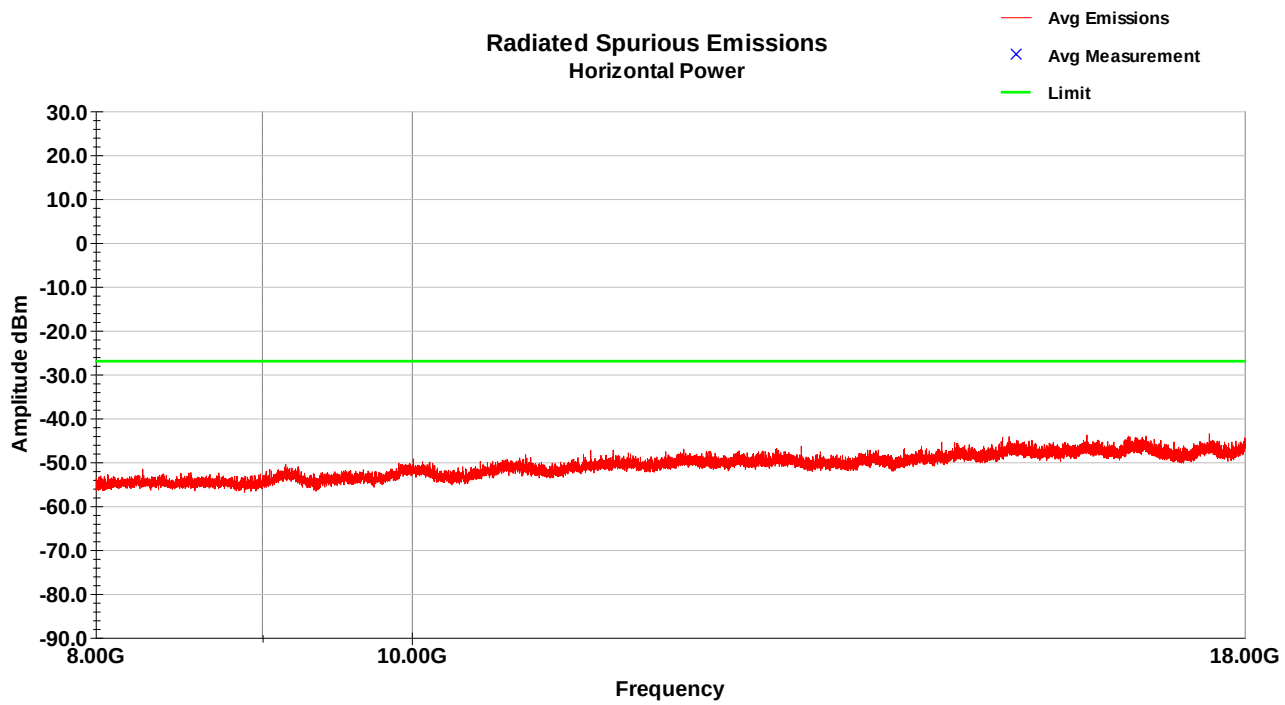

Horizontal Data – 1-8GHz – Mid Channel

No emissions within 20dB of limit

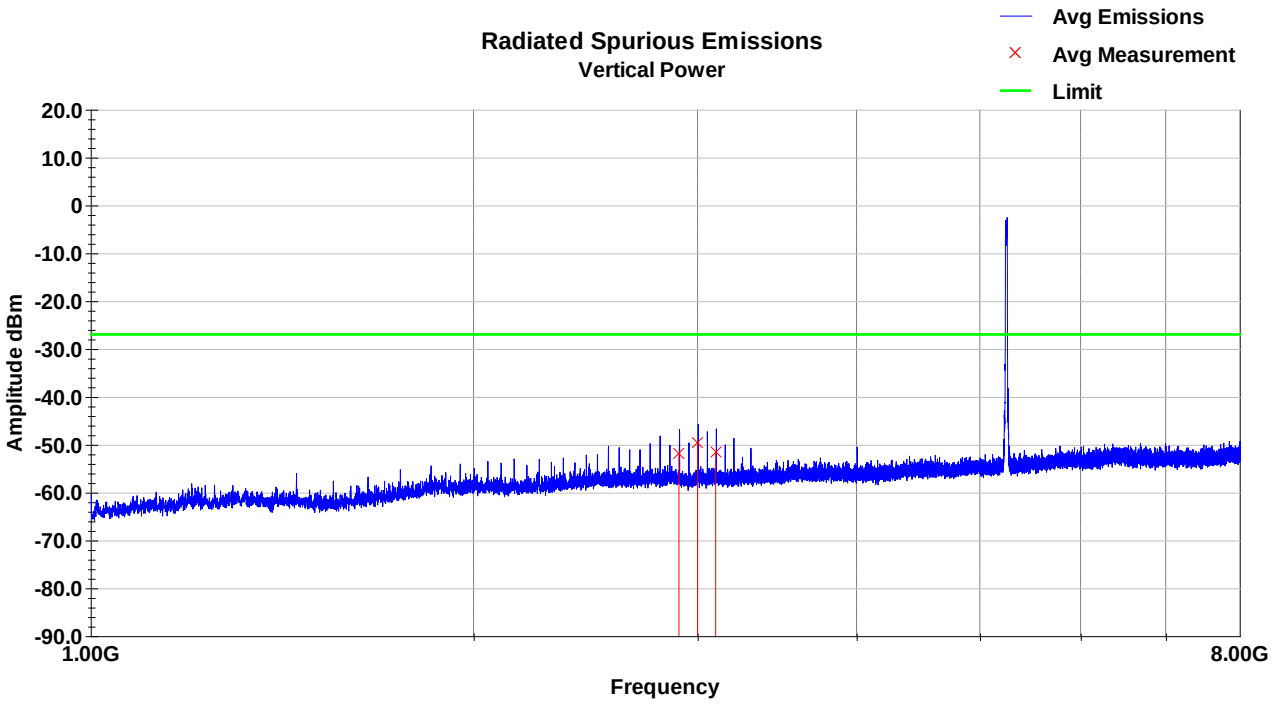
Vertical Plot – 8-18GHz – Mid Channel




Horizontal Plot – 8-18GHz – Mid Channel



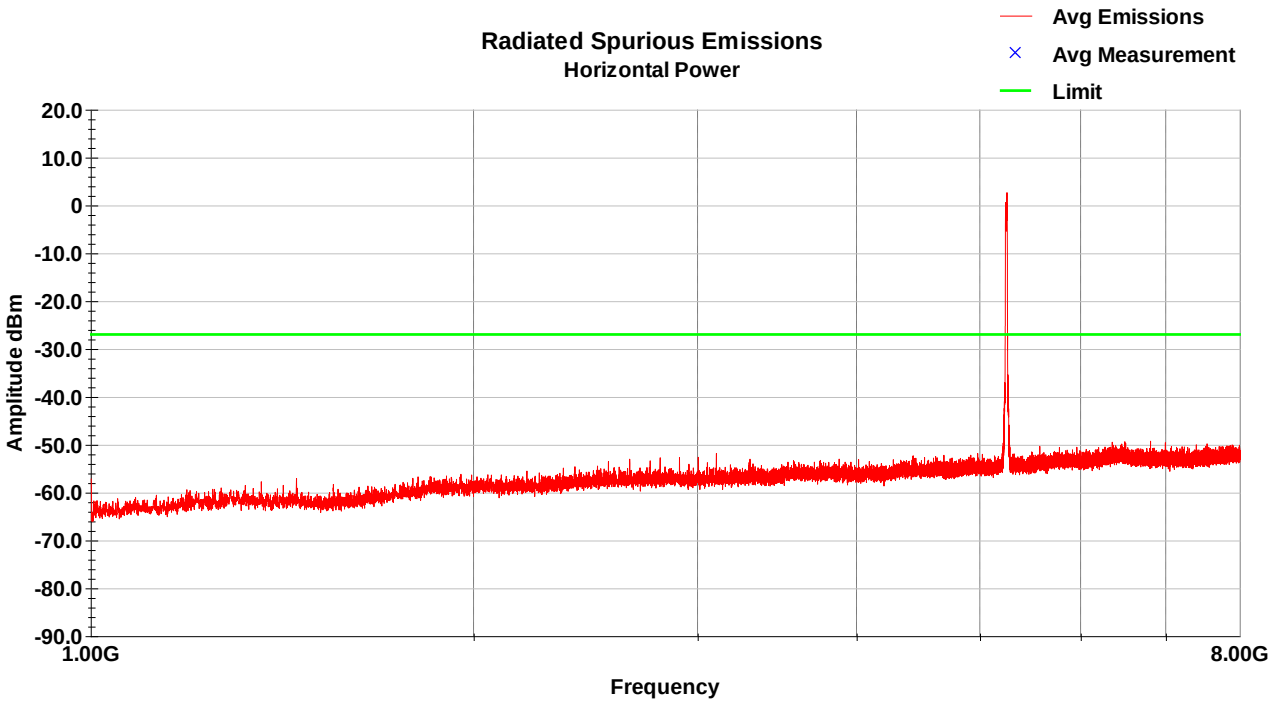
## Vertical Plot – 1-8GHz – High Channel




## Vertical Data – 1-8GHz – High Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2900.28 | -44.9 | V | 0.0 | 148.0 | 32.3 | 2.7 | 42.0 | -51.9 | -27.0 | -24.9 |
| 3000.04 | -43.0 | V | 349.0 | 100.0 | 32.4 | 2.8 | 42.0 | -49.8 | -27.0 | -22.8 |
| 3100.04 | -45.3 | V | 6.0 | 120.0 | 32.8 | 2.8 | 41.9 | -51.6 | -27.0 | -24.6 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

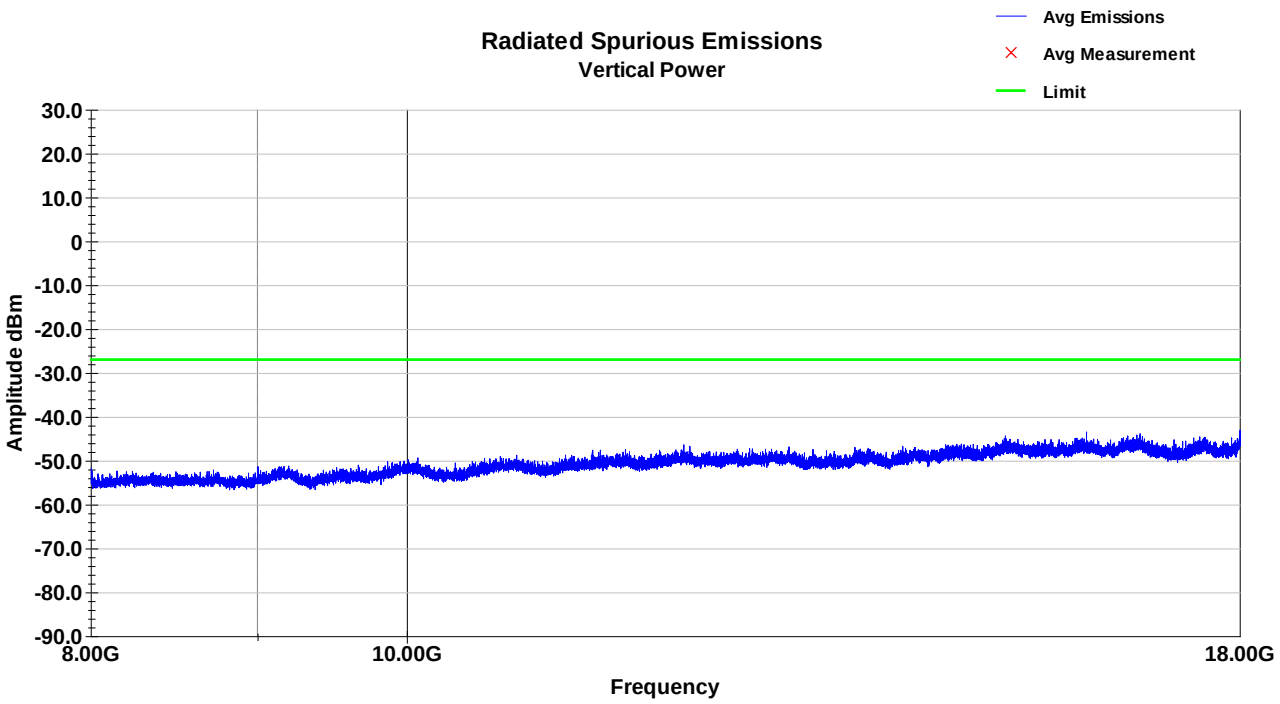
Horizontal Plot – 1-8GHz – High Channel



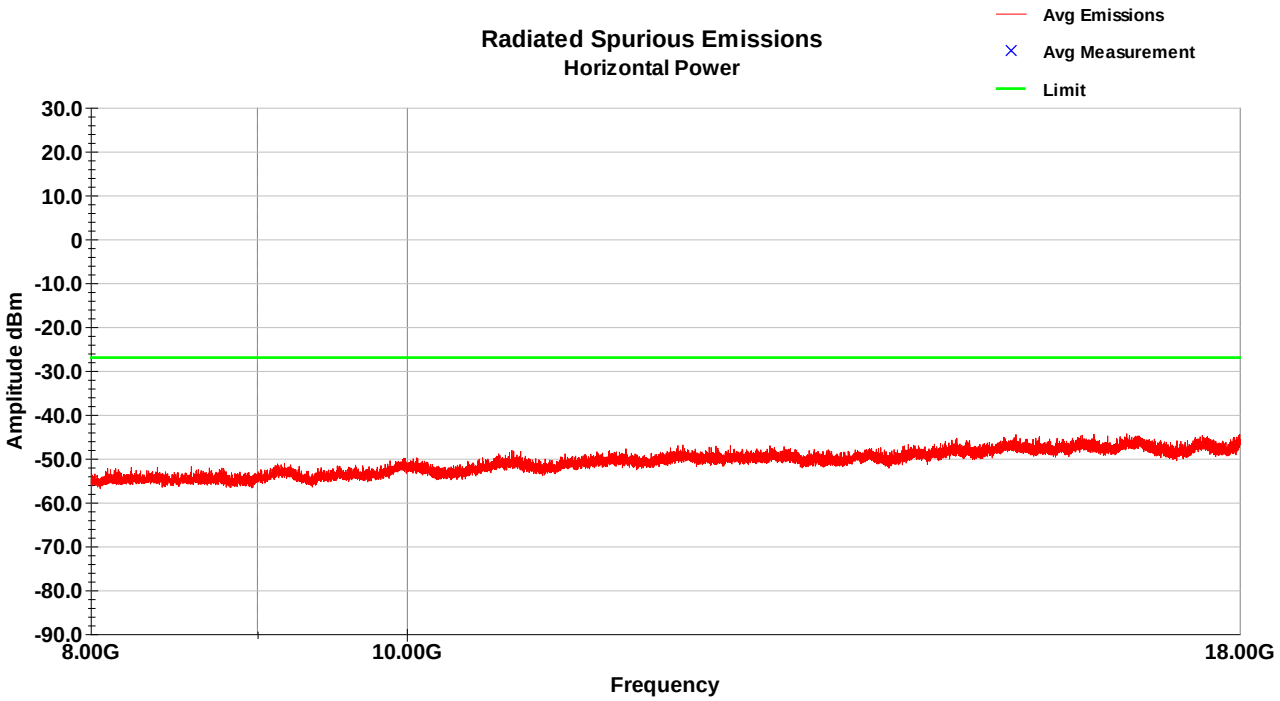

Horizontal Data – 1-8GHz – High Channel

No emissions within 20dB of limit

Vertical Plot – 8-18GHz – High Channel




Horizontal Plot – 8-18GHz – High Channel

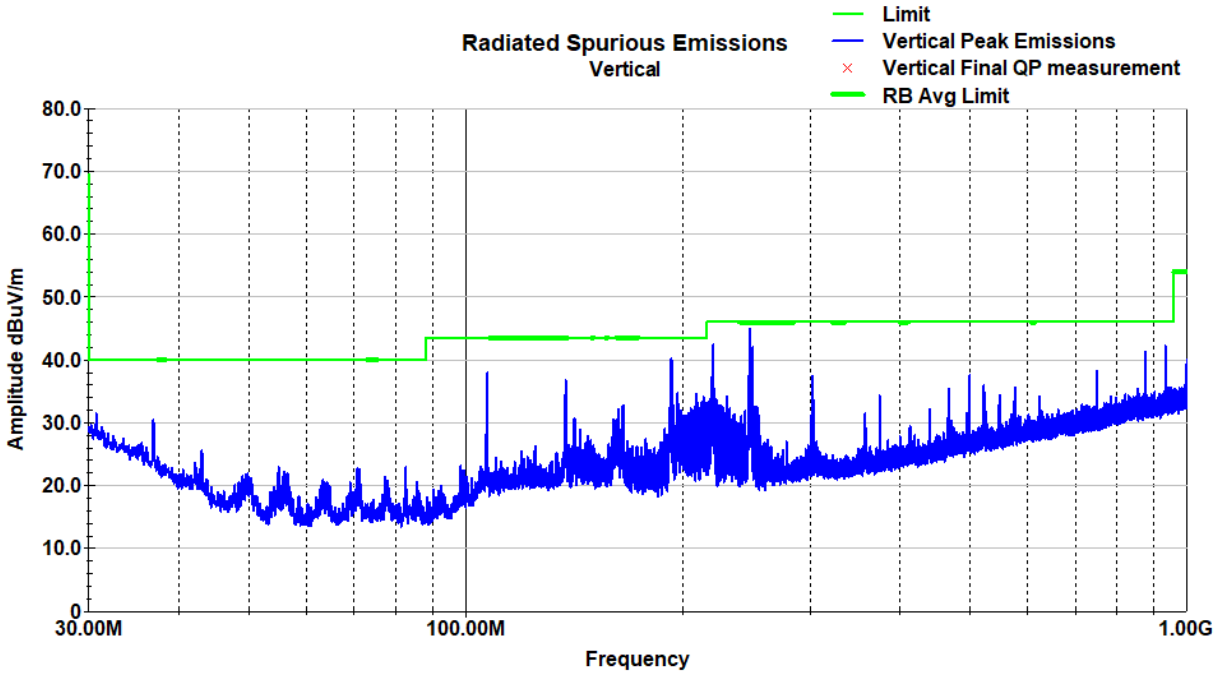


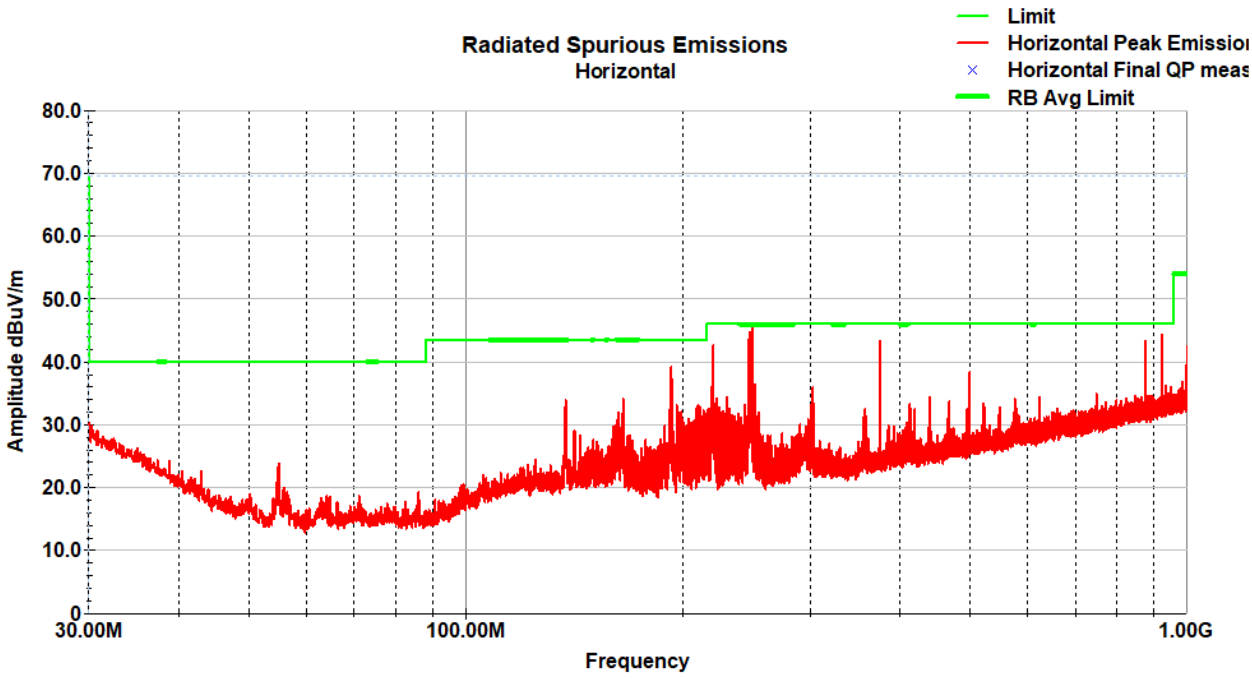

The worst-case final data in this section of -49.8dBm is below the restricted band limit of -41.2dBm. Emissions in the 18-40GHz frequency range were similar to those shown in section 3.11.3 above.

## 3.14 *Test Data: 10-inch Display – U-NII Band 3 – 802.11a*

### 3.14.1 30-1000 MHz

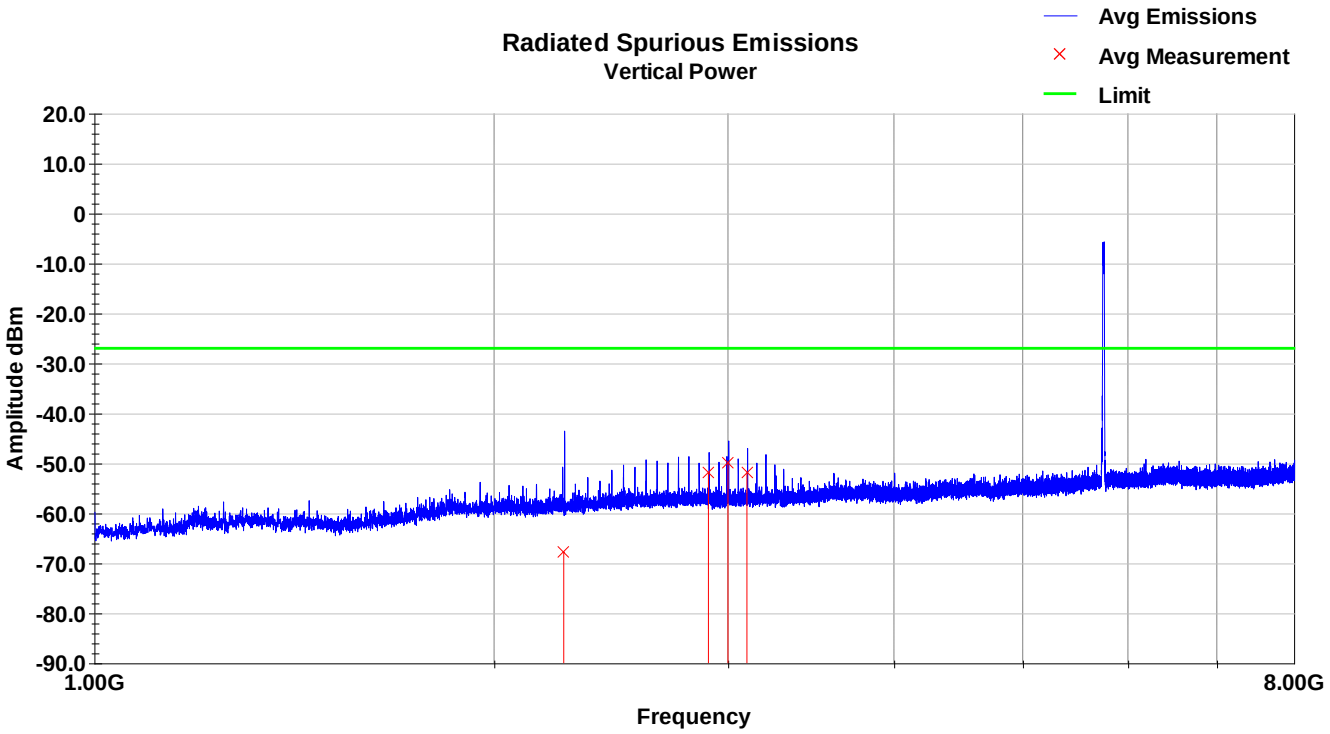
Emissions were confirmed to be non-radio emissions. All channels had similar plots (worst case shown).



### 3.14.2 1-18 GHz

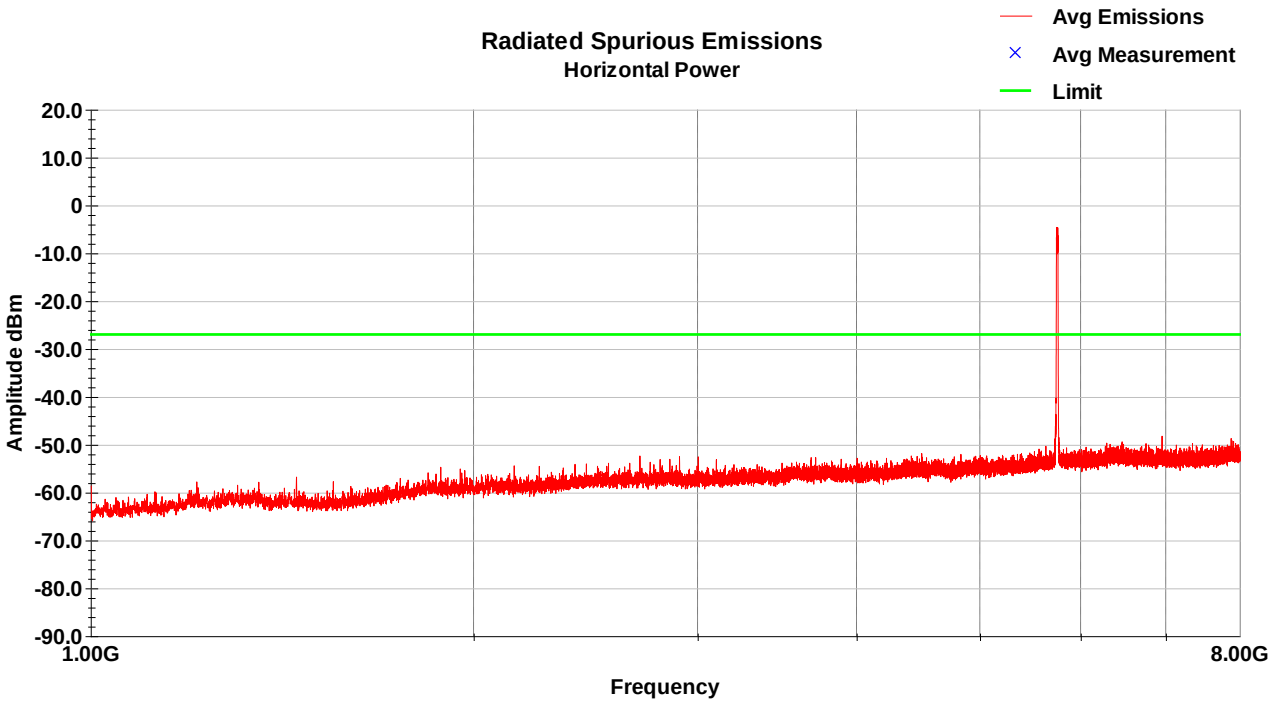
Vertical Plot – 1-8GHz – Low Channel




Vertical Data – 1-8GHz – Low Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2256.56 | -59.2 | V | 38.0 | 105.0 | 31.4 | 2.4 | 42.3 | -67.7 | -27.0 | -40.7 |
| 2900.04 | -44.8 | V | 4.0 | 123.0 | 32.3 | 2.7 | 42.0 | -51.8 | -27.0 | -24.8 |
| 2999.92 | -43.1 | V | 9.0 | 110.0 | 32.4 | 2.8 | 42.0 | -49.8 | -27.0 | -22.8 |
| 3099.92 | -45.5 | V | 33.0 | 120.0 | 32.8 | 2.8 | 41.9 | -51.9 | -27.0 | -24.9 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

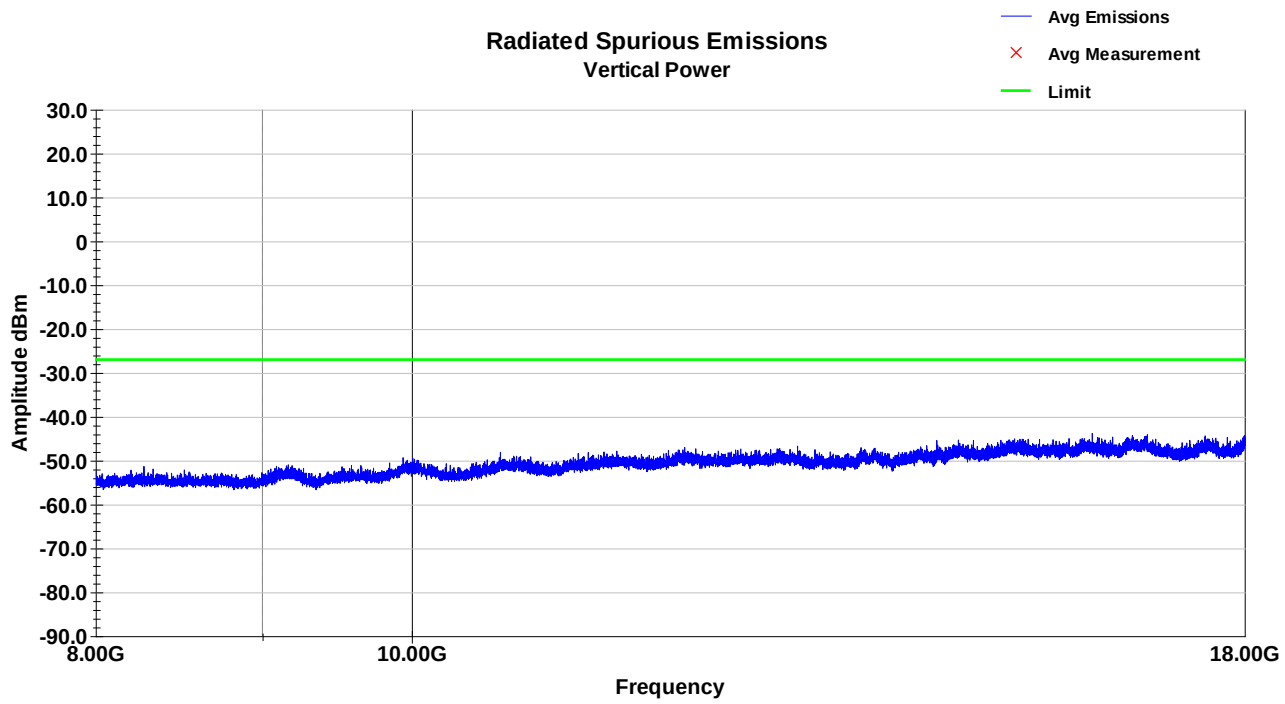
Horizontal Plot – 1-8GHz – Low Channel



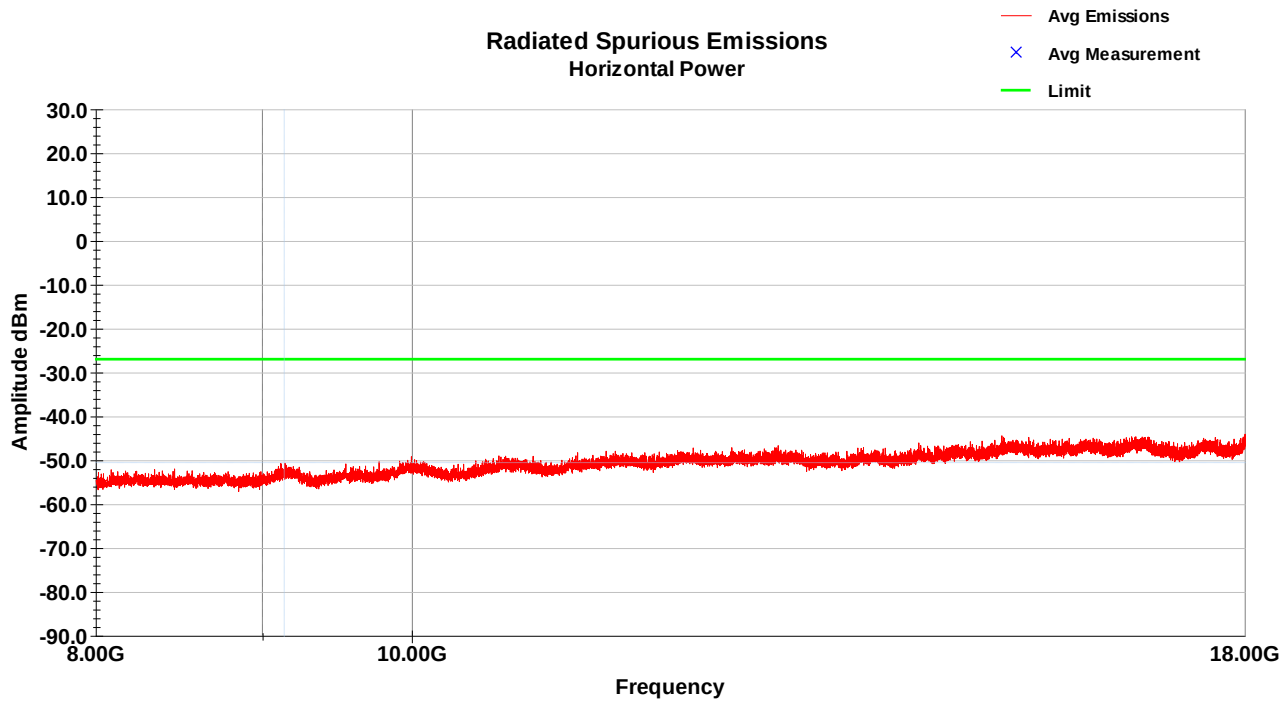

Horizontal Data – 1-8GHz – Low Channel

No emissions within 20dB of limit

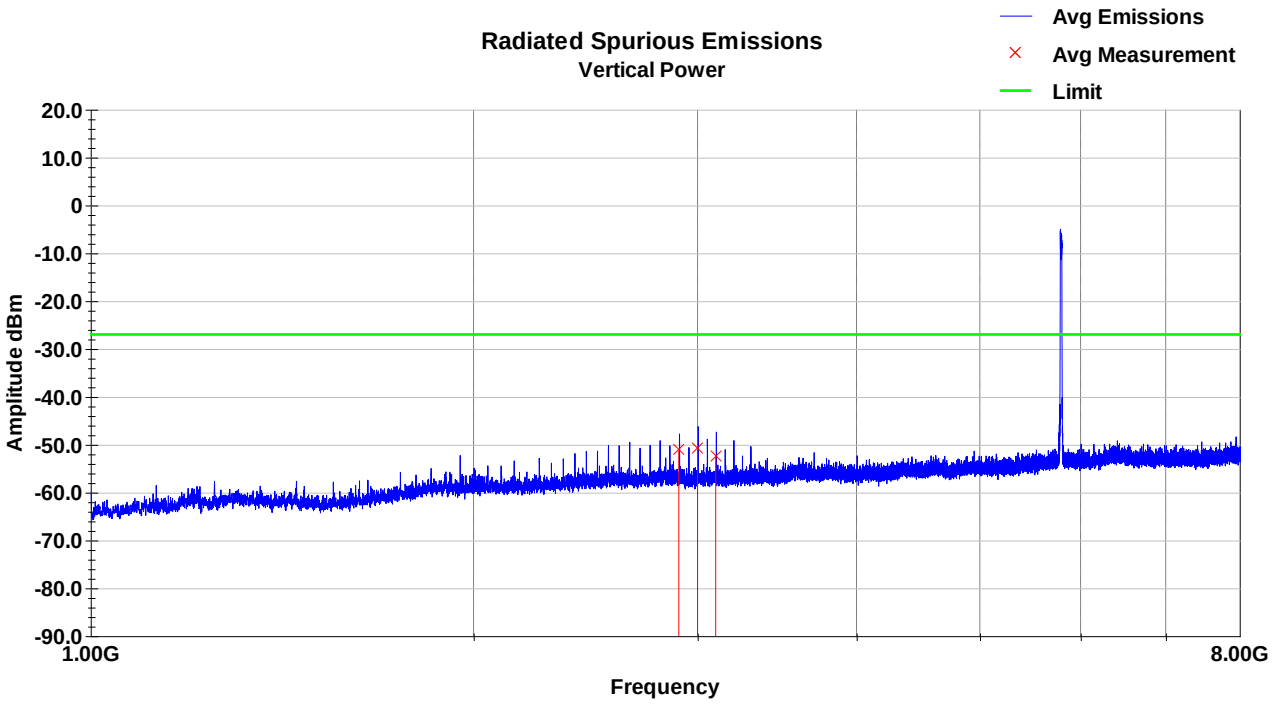
Vertical Plot – 8-18GHz – Low Channel




Horizontal Plot – 8-18GHz – Low Channel



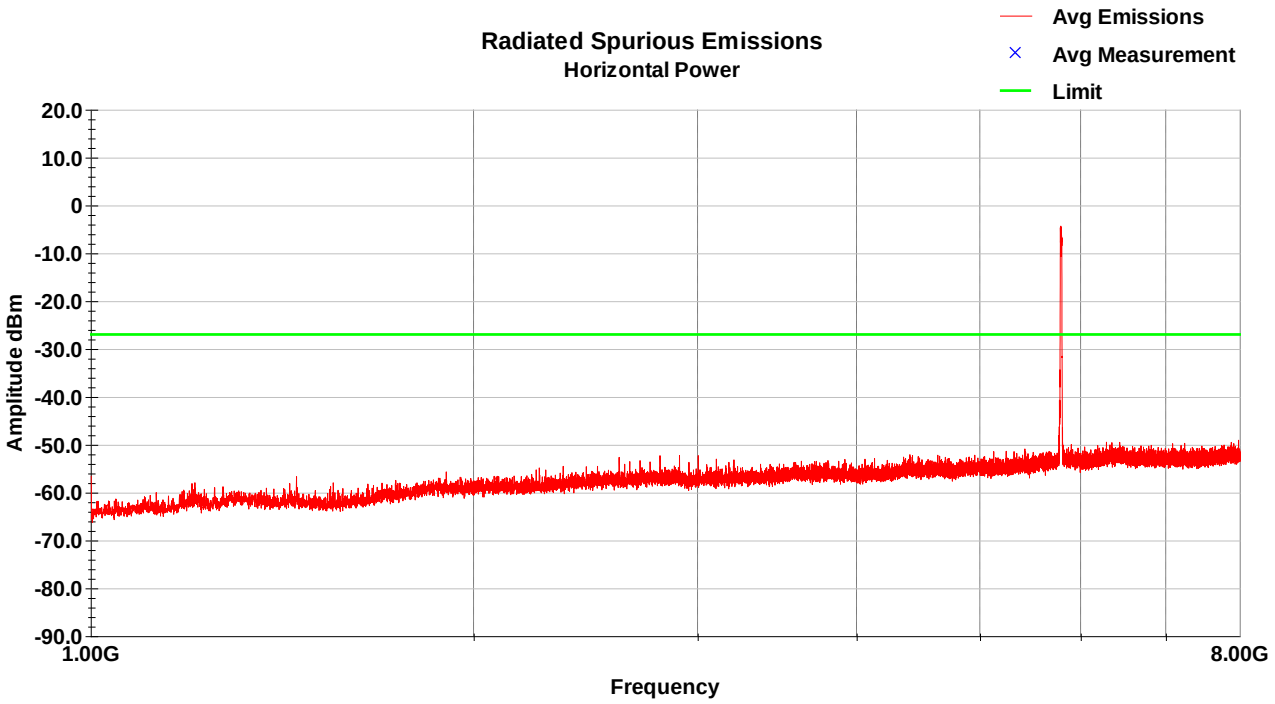
## Vertical Plot – 1-8GHz – Mid Channel




## Vertical Data – 1-8GHz – Mid Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2900.04 | -44.0 | V | 354.0 | 113.0 | 32.3 | 2.7 | 42.0 | -51.0 | -27.0 | -24.0 |
| 2999.92 | -44.0 | V | 11.0 | 127.0 | 32.4 | 2.8 | 42.0 | -50.8 | -27.0 | -23.8 |
| 3100.28 | -46.0 | V | 28.0 | 126.0 | 32.8 | 2.8 | 41.9 | -52.4 | -27.0 | -25.4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

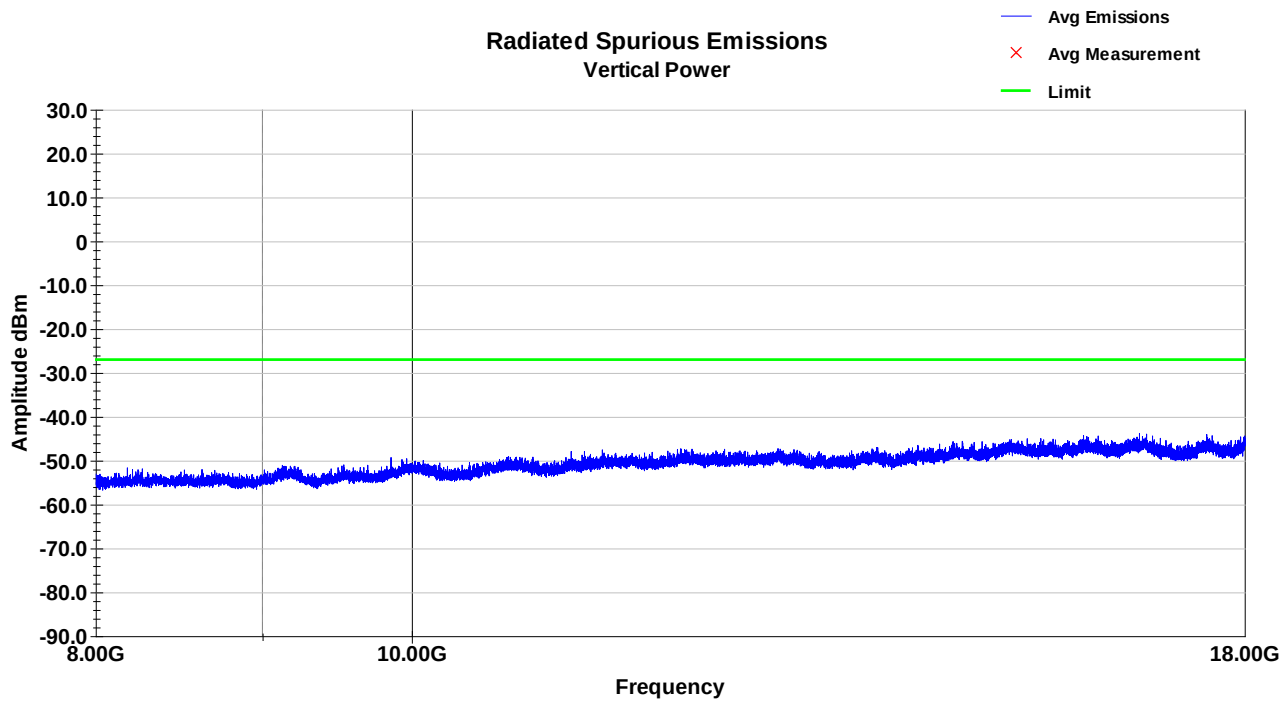
Horizontal Plot – 1-8GHz – Mid Channel



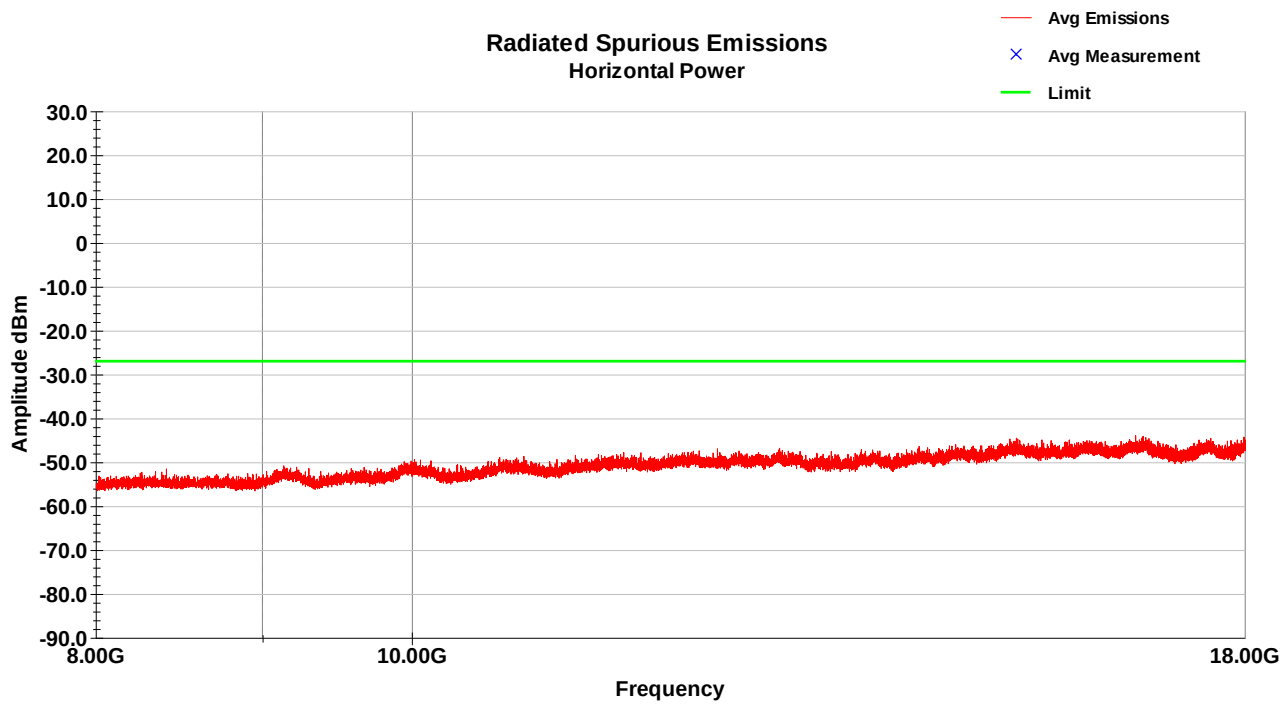

Horizontal Data – 1-8GHz – Mid Channel

No emissions within 20dB of limit

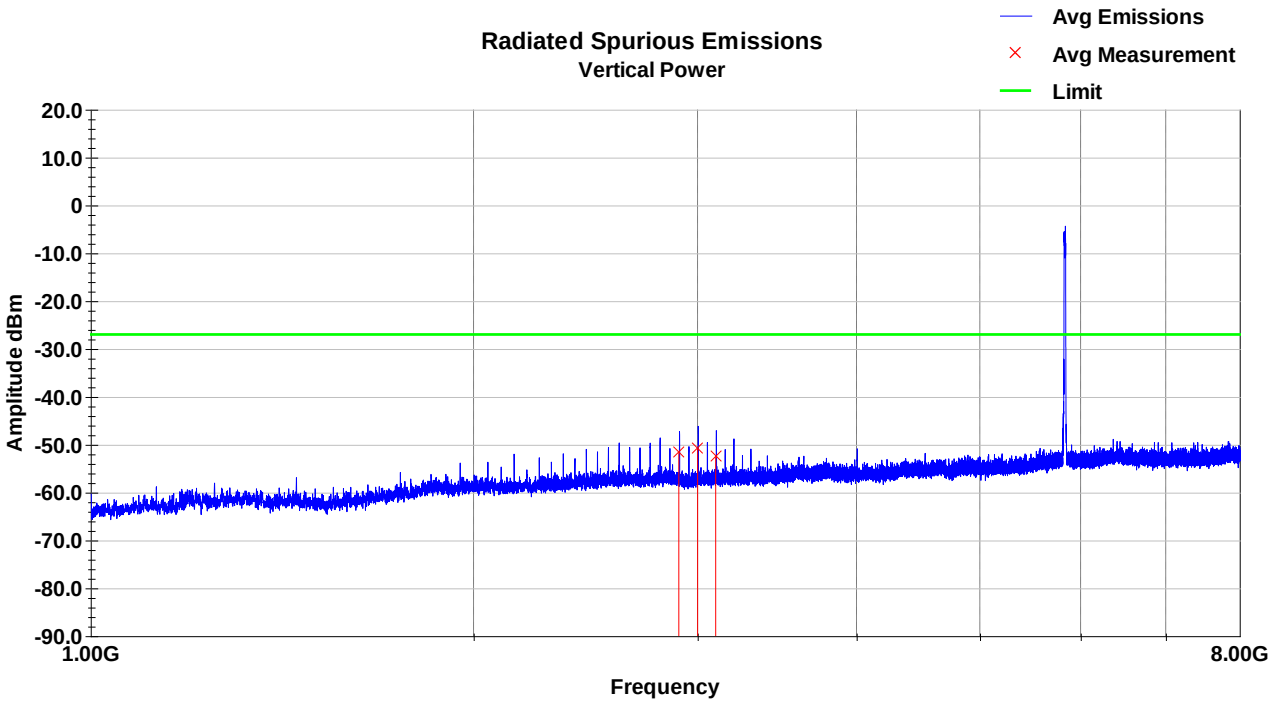
Vertical Plot – 8-18GHz – Mid Channel




Horizontal Plot – 8-18GHz – Mid Channel



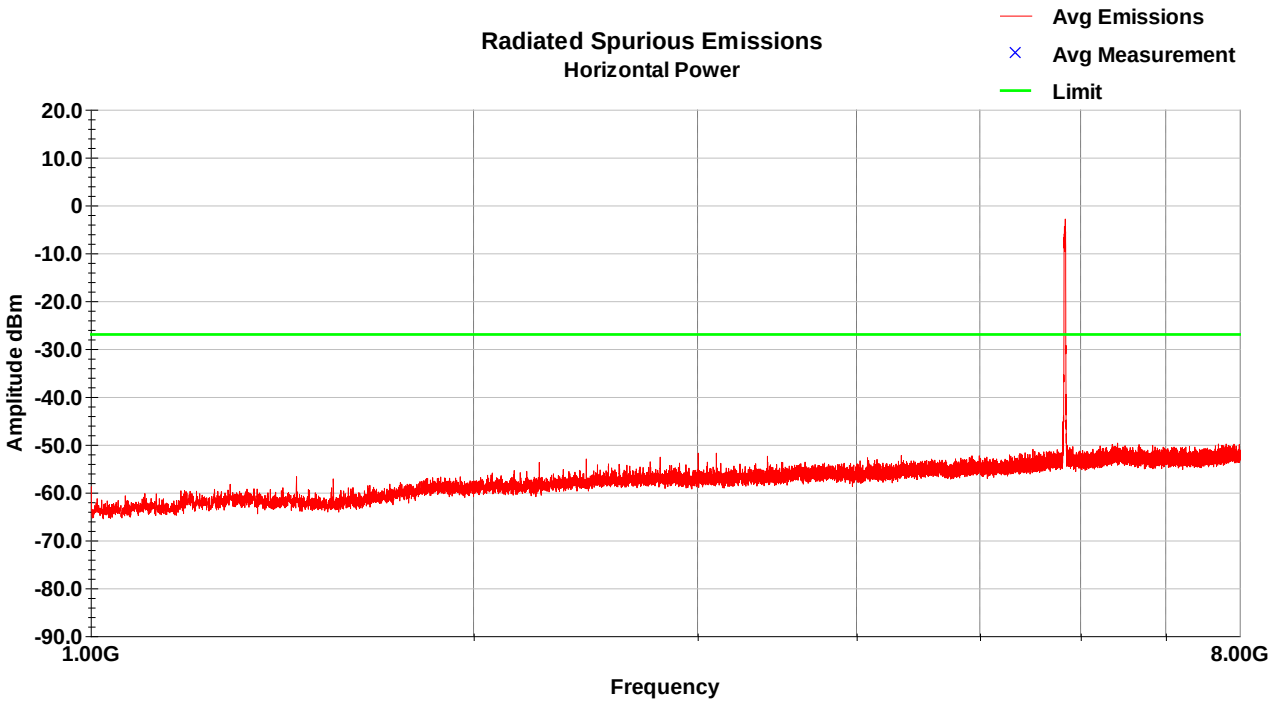
## Vertical Plot – 1-8GHz – High Channel




## Vertical Data – 1-8GHz – High Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2899.80 | -44.6 | V | 0.0 | 149.0 | 32.3 | 2.7 | 42.0 | -51.6 | -27.0 | -24.6 |
| 3000.04 | -44.1 | V | 345.0 | 118.0 | 32.4 | 2.8 | 42.0 | -50.8 | -27.0 | -23.8 |
| 3100.04 | -46.2 | V | 351.0 | 128.0 | 32.8 | 2.8 | 41.9 | -52.5 | -27.0 | -25.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

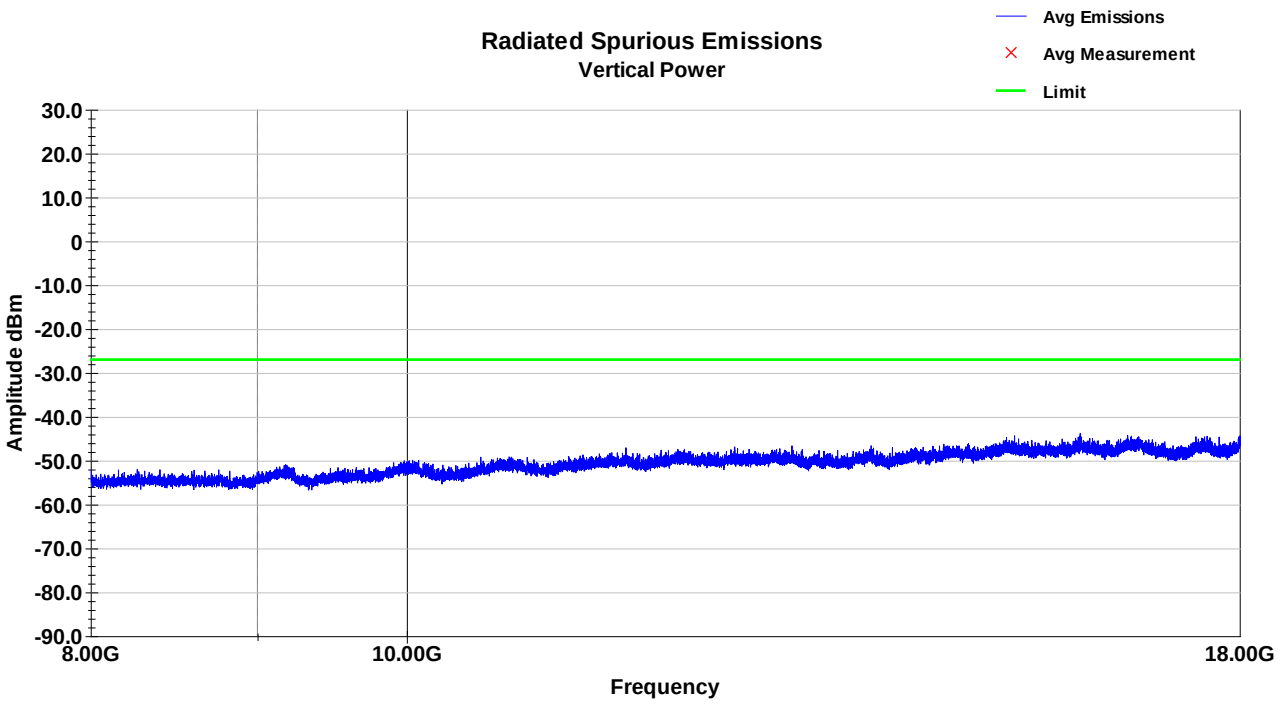
Horizontal Plot – 1-8GHz – High Channel



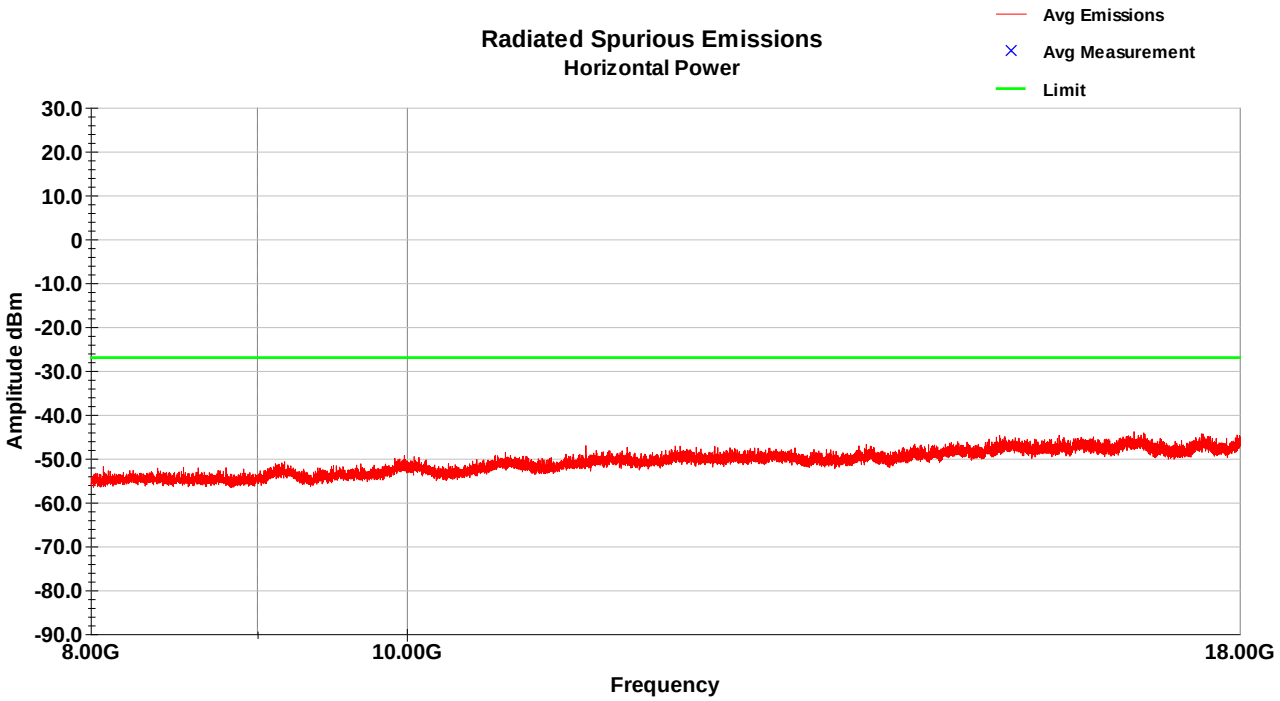

Horizontal Data – 1-8GHz – High Channel

No emissions within 20dB of limit

Vertical Plot – 8-18GHz – High Channel




Horizontal Plot – 8-18GHz – High Channel

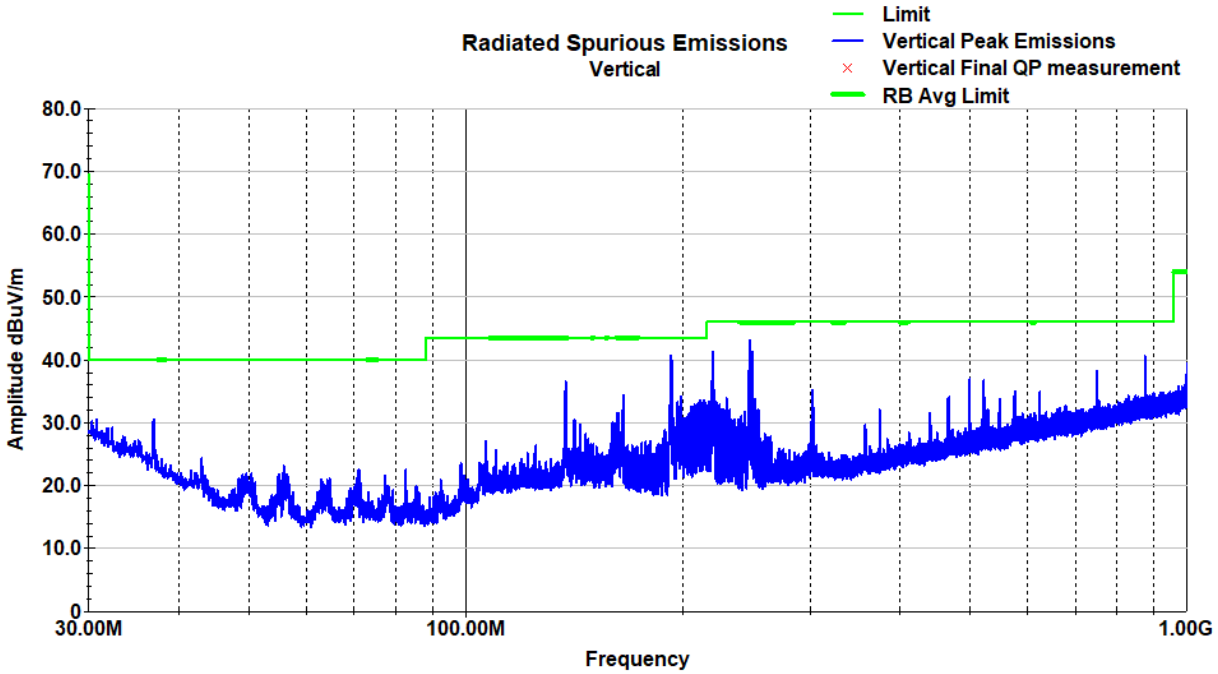


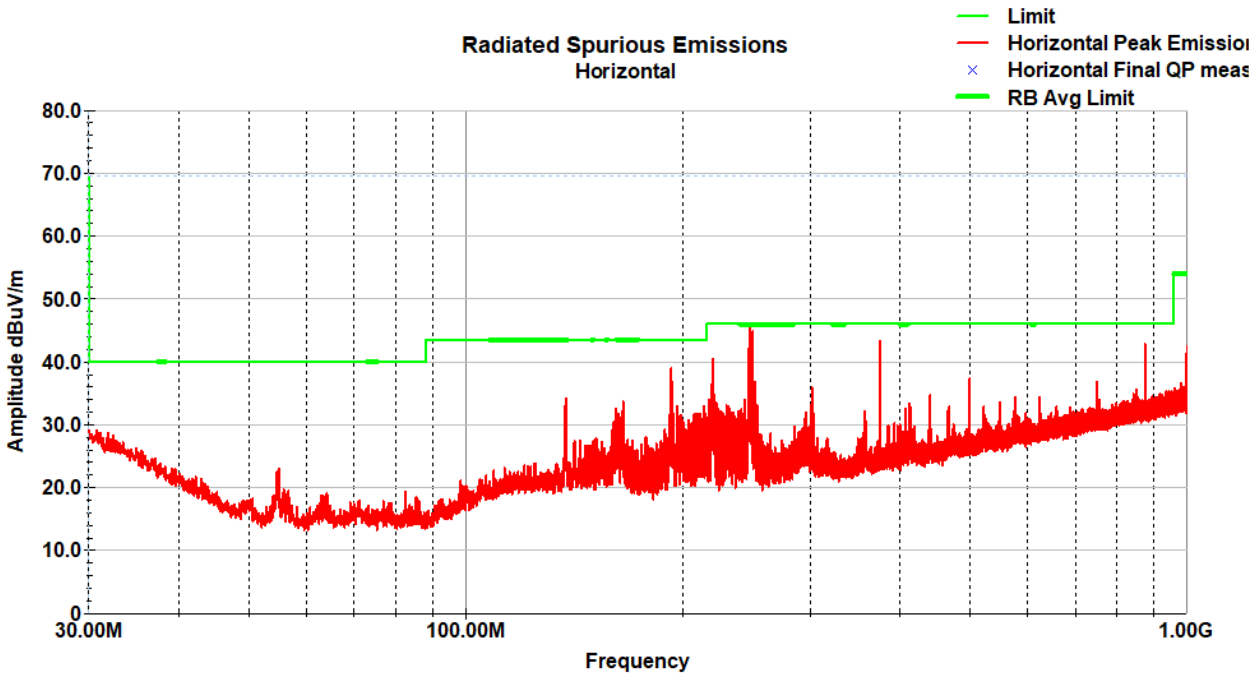

The worst-case final data in this section of -49.8dBm is below the restricted band limit of -41.2dBm. Emissions in the 18-40GHz frequency range were similar to those shown in section 3.11.3 above.

## 3.15 *Test Data: 10-inch Display – U-NII Band 3 – 802.11n*

### 3.15.1 30-1000 MHz

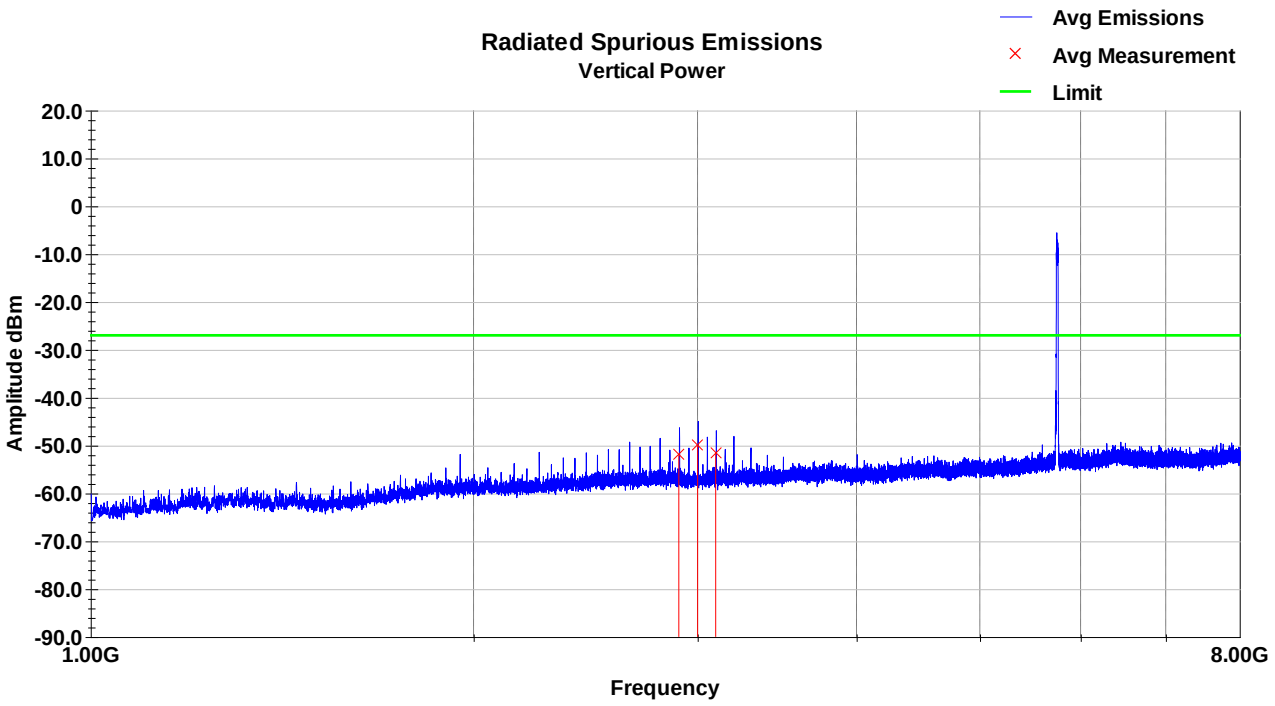
Emissions were confirmed to be non-radio emissions. All channels had similar plots (worst case shown).



### 3.15.2 1-18 GHz

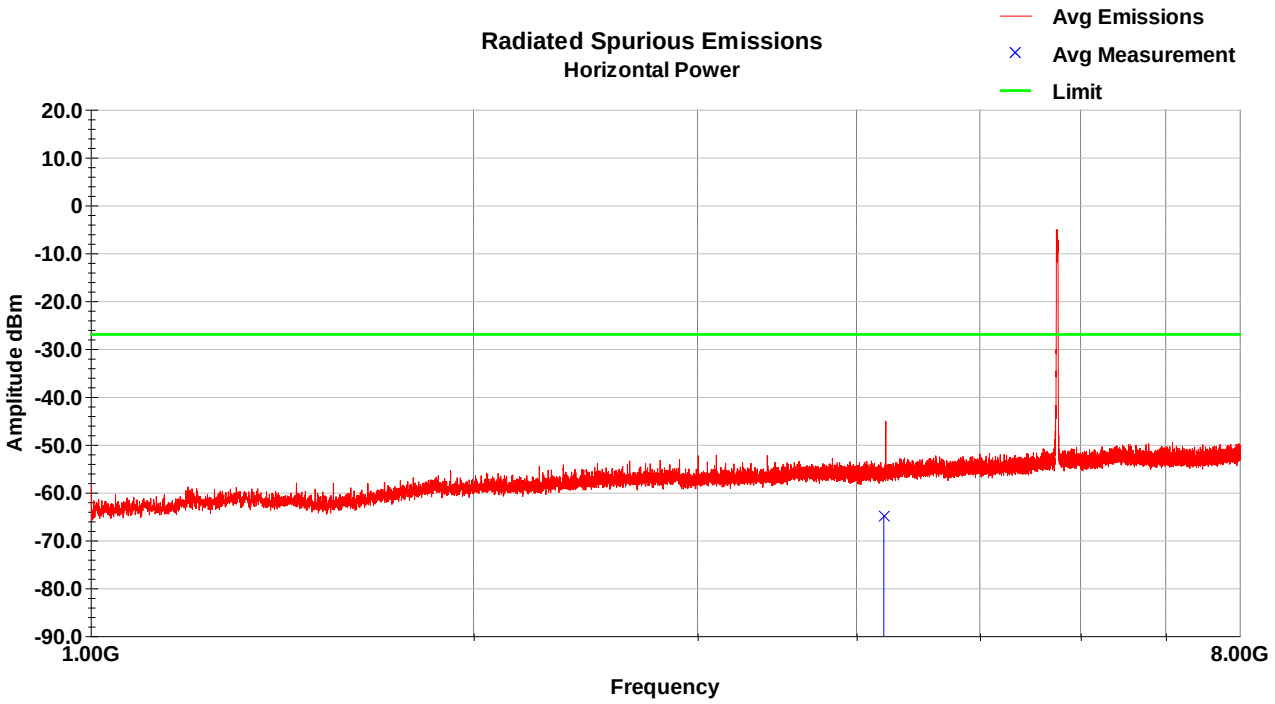
Vertical Plot – 1-8GHz – Low Channel




Vertical Data – 1-8GHz – Low Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2899.92 | -44.8 | V | -1.0 | 121.0 | 32.3 | 2.7 | 42.0 | -51.8 | -27.0 | -24.8 |
| 3000.16 | -43.2 | V | 10.0 | 109.0 | 32.4 | 2.8 | 42.0 | -50.0 | -27.0 | -23.0 |
| 3100.04 | -45.1 | V | 29.0 | 110.0 | 32.8 | 2.8 | 41.9 | -51.4 | -27.0 | -24.4 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

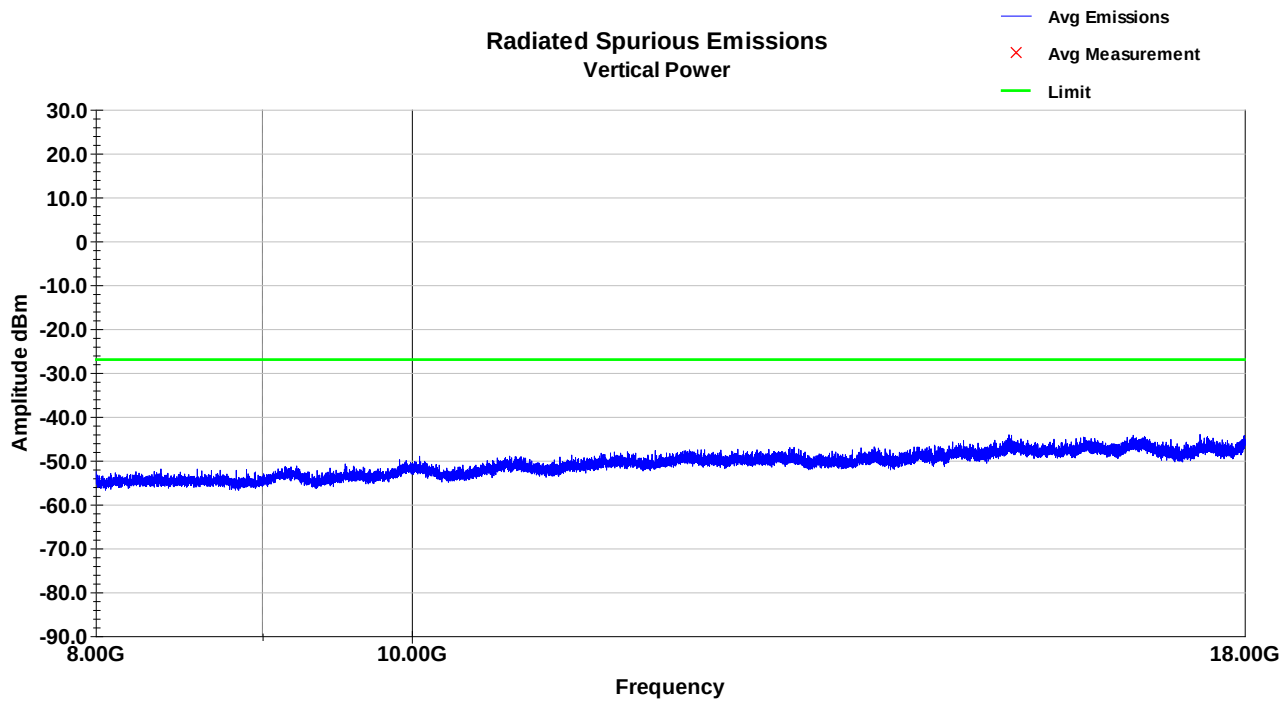
## Horizontal Plot – 1-8GHz – Low Channel



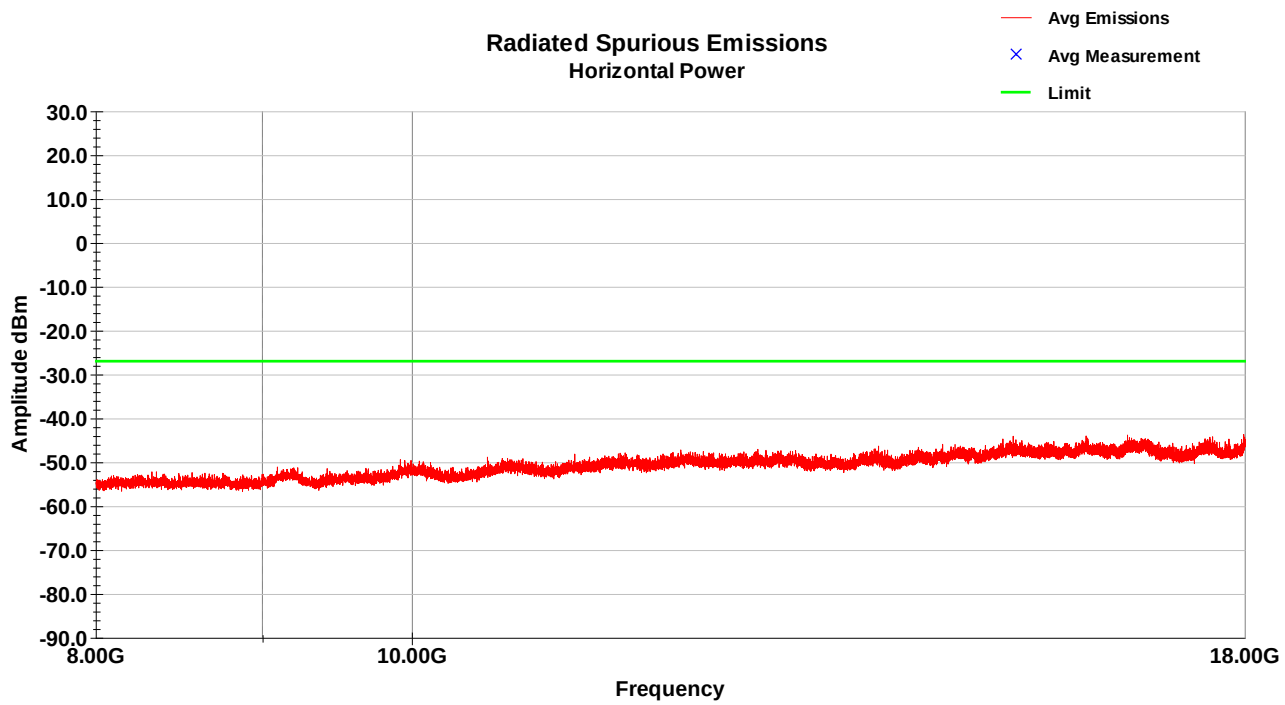

## Horizontal Data – 1-8GHz – Low Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 4202.92 | -59.4 | H | 142.0 | 100.0 | 33.3 | 3.2 | 42.0 | -64.8 | -27.0 | -37.8 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

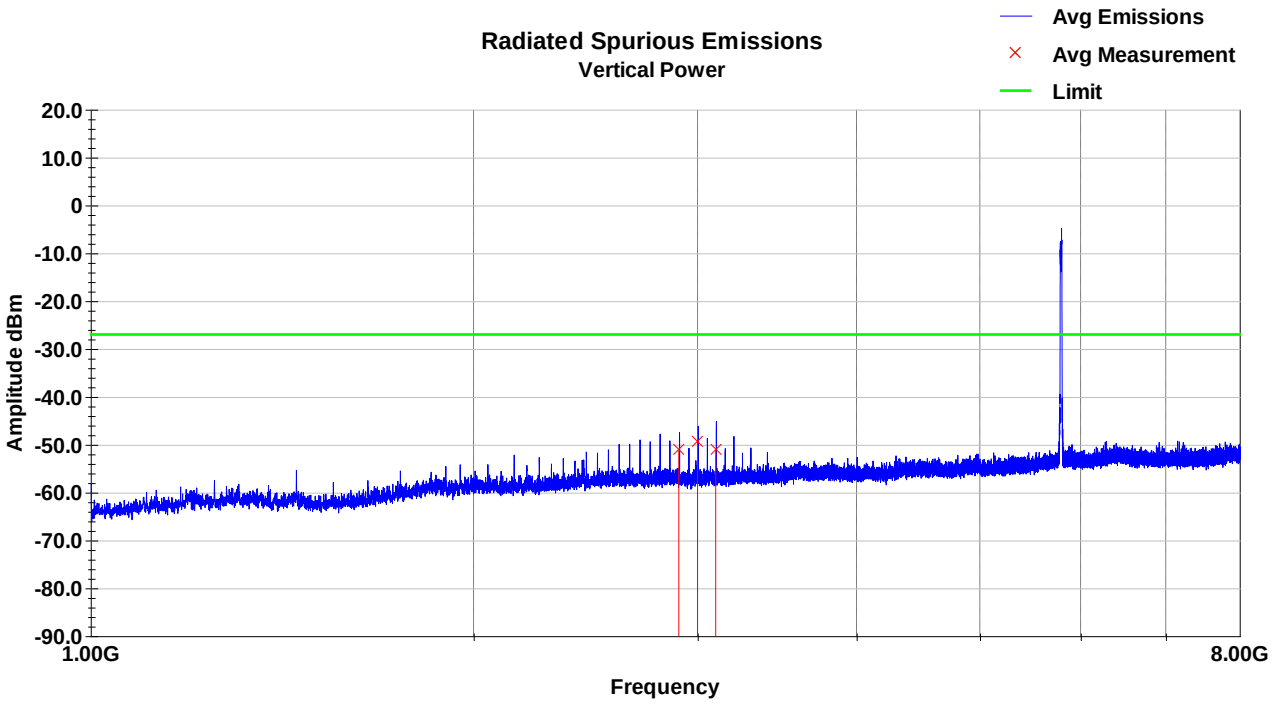
Vertical Plot – 8-18GHz – Low Channel




Horizontal Plot – 8-18GHz – Low Channel



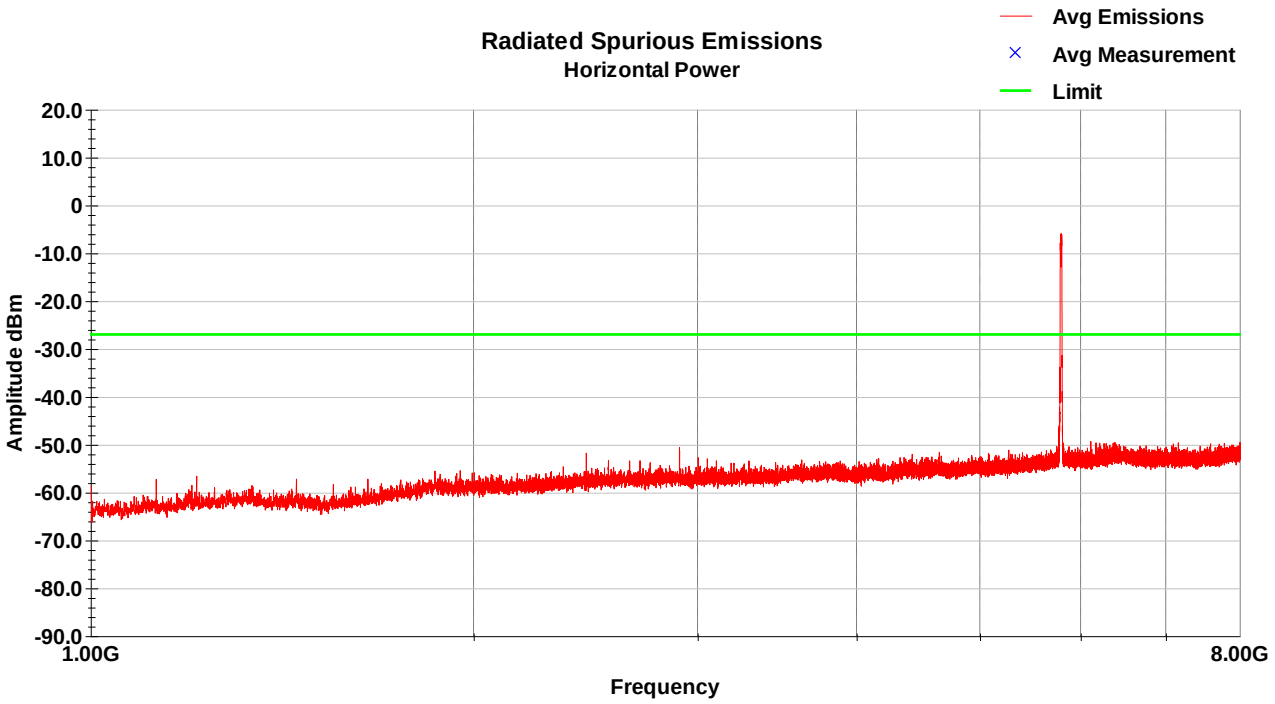
## Vertical Plot – 1-8GHz – Mid Channel




## Vertical Data – 1-8GHz – Mid Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2900.04 | -44.1 | V | 350.0 | 120.0 | 32.3 | 2.7 | 42.0 | -51.1 | -27.0 | -24.1 |
| 2999.92 | -42.6 | V | 13.0 | 118.0 | 32.4 | 2.8 | 42.0 | -49.4 | -27.0 | -22.4 |
| 3100.16 | -44.7 | V | 10.0 | 117.0 | 32.8 | 2.8 | 41.9 | -51.0 | -27.0 | -24.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

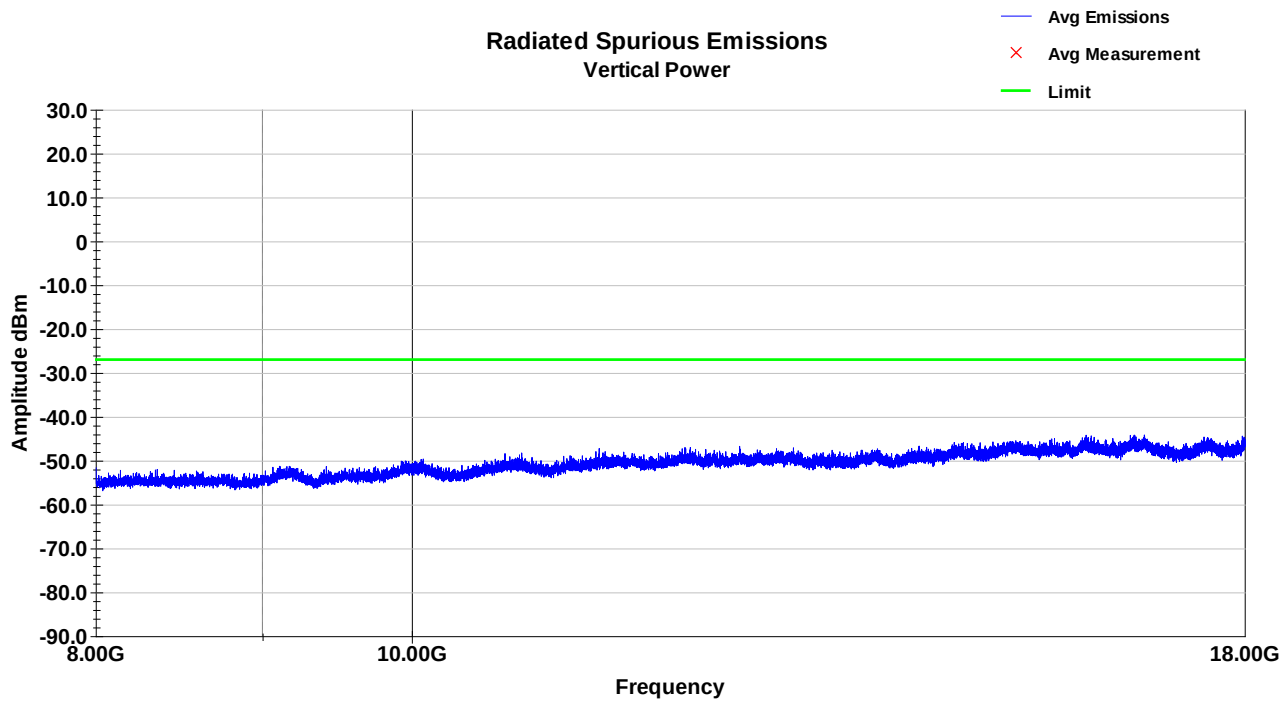
Horizontal Plot – 1-8GHz – Mid Channel



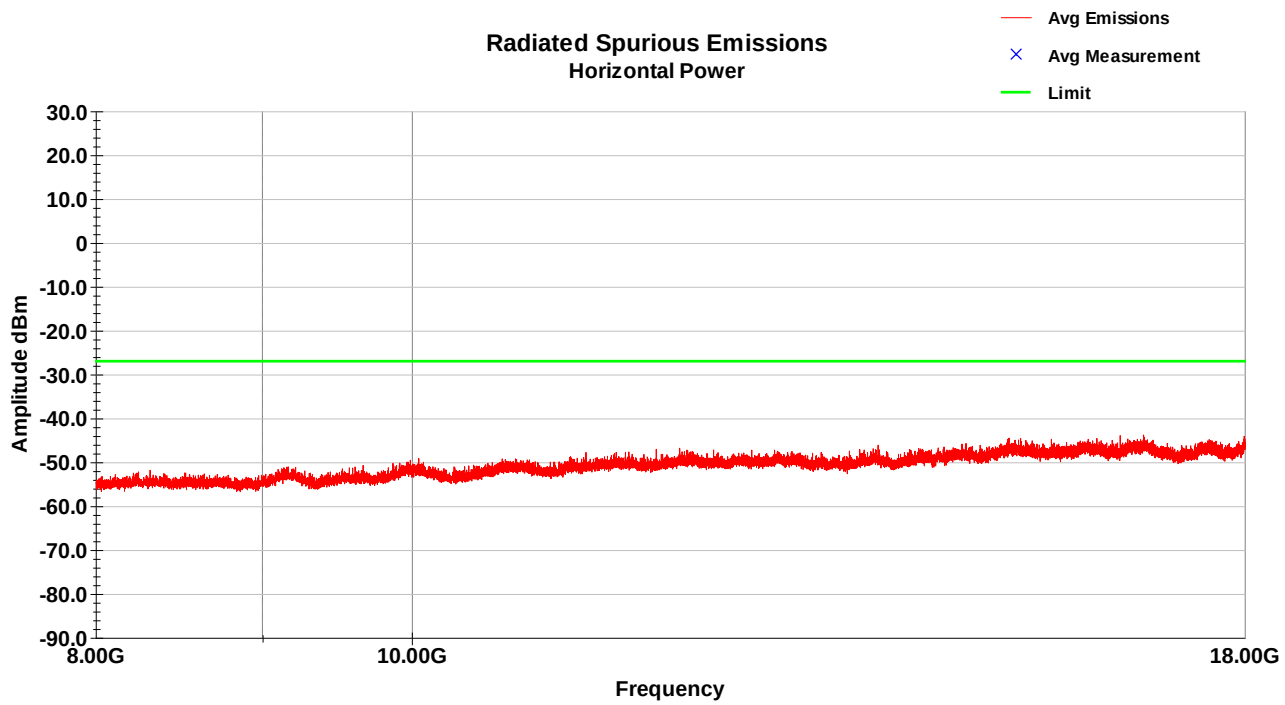

Horizontal Data – 1-8GHz – Mid Channel

No emissions within 20dB of limit

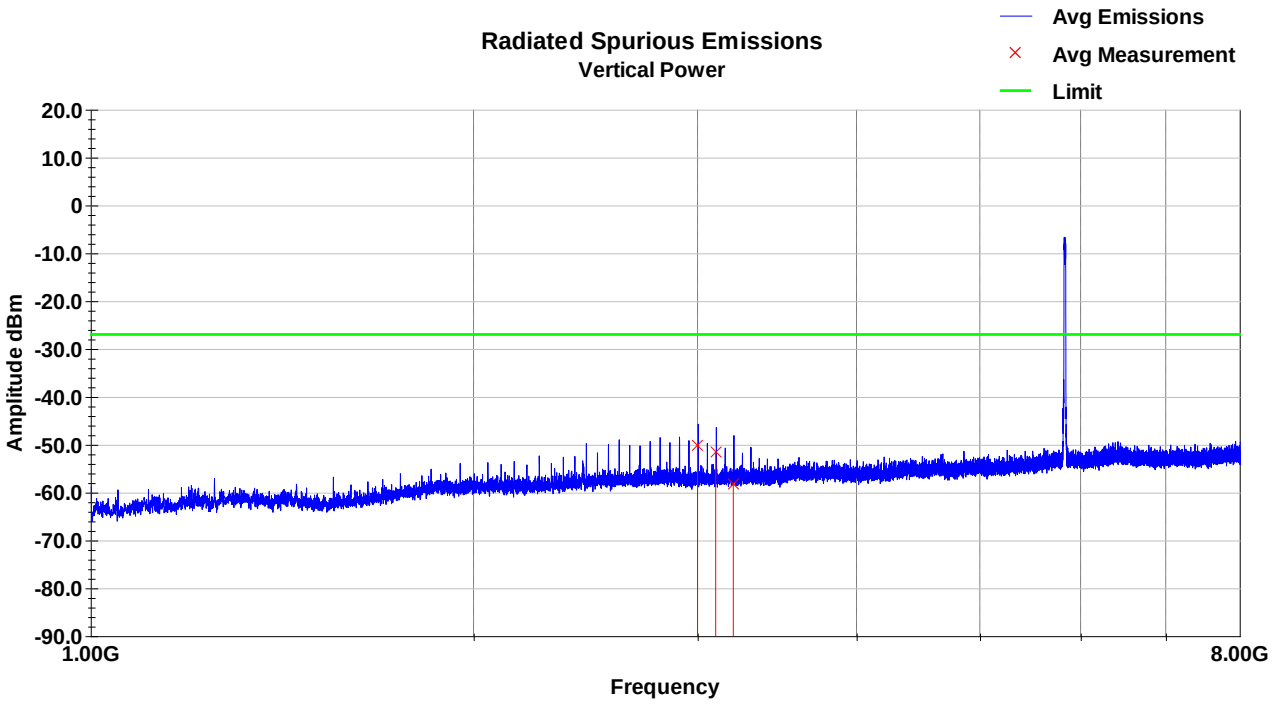
Vertical Plot – 8-18GHz – Mid Channel




Horizontal Plot – 8-18GHz – Mid Channel



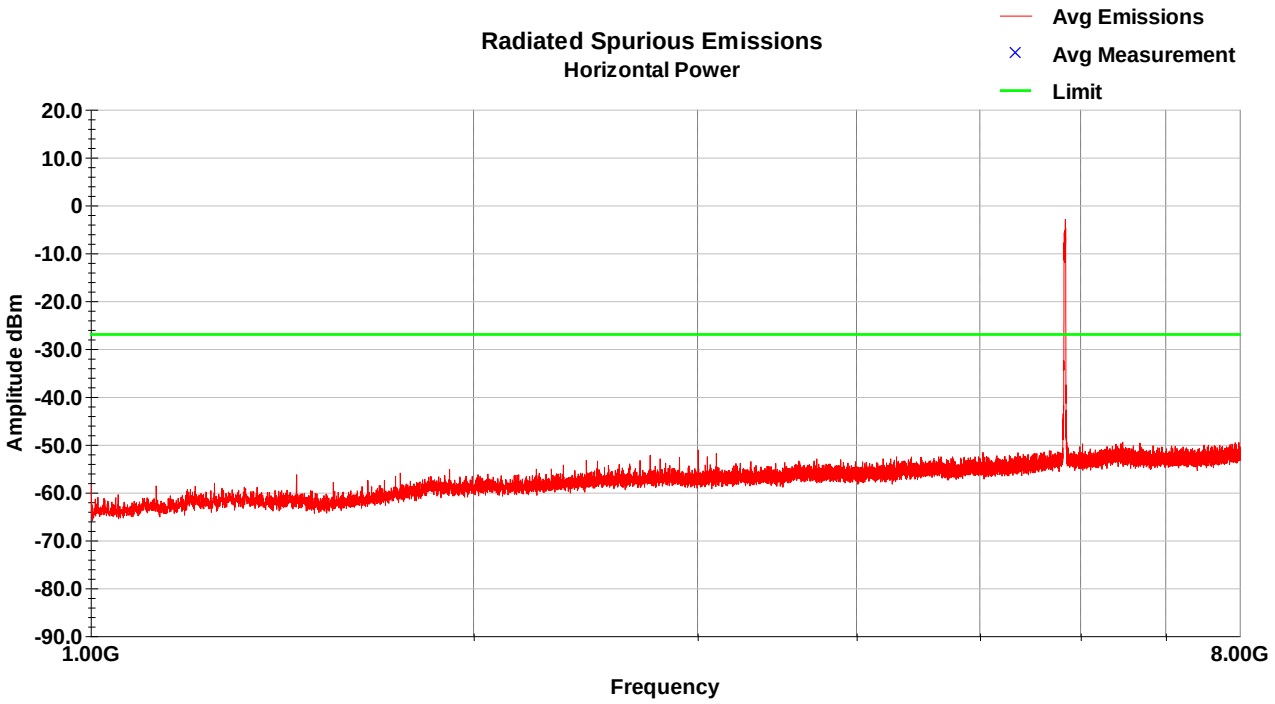
## Vertical Plot – 1-8GHz – High Channel




## Vertical Data – 1-8GHz – High Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2999.92 | -43.5 | V | 22.0 | 113.0 | 32.4 | 2.8 | 42.0 | -50.3 | -27.0 | -23.3 |
| 3099.80 | -45.3 | V | 10.0 | 128.0 | 32.8 | 2.8 | 41.9 | -51.6 | -27.0 | -24.6 |
| 3200.16 | -52.1 | V | 326.0 | 118.0 | 32.8 | 2.9 | 41.8 | -58.2 | -27.0 | -31.2 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

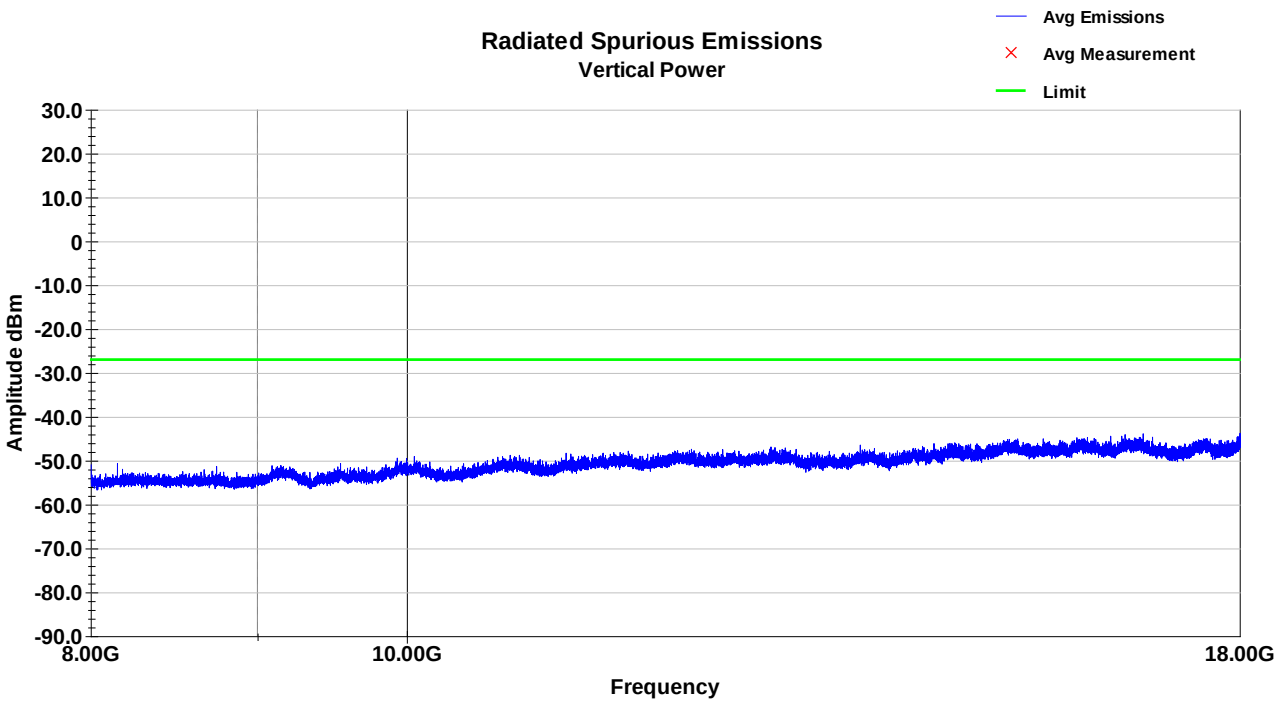
Horizontal Plot – 1-8GHz – High Channel



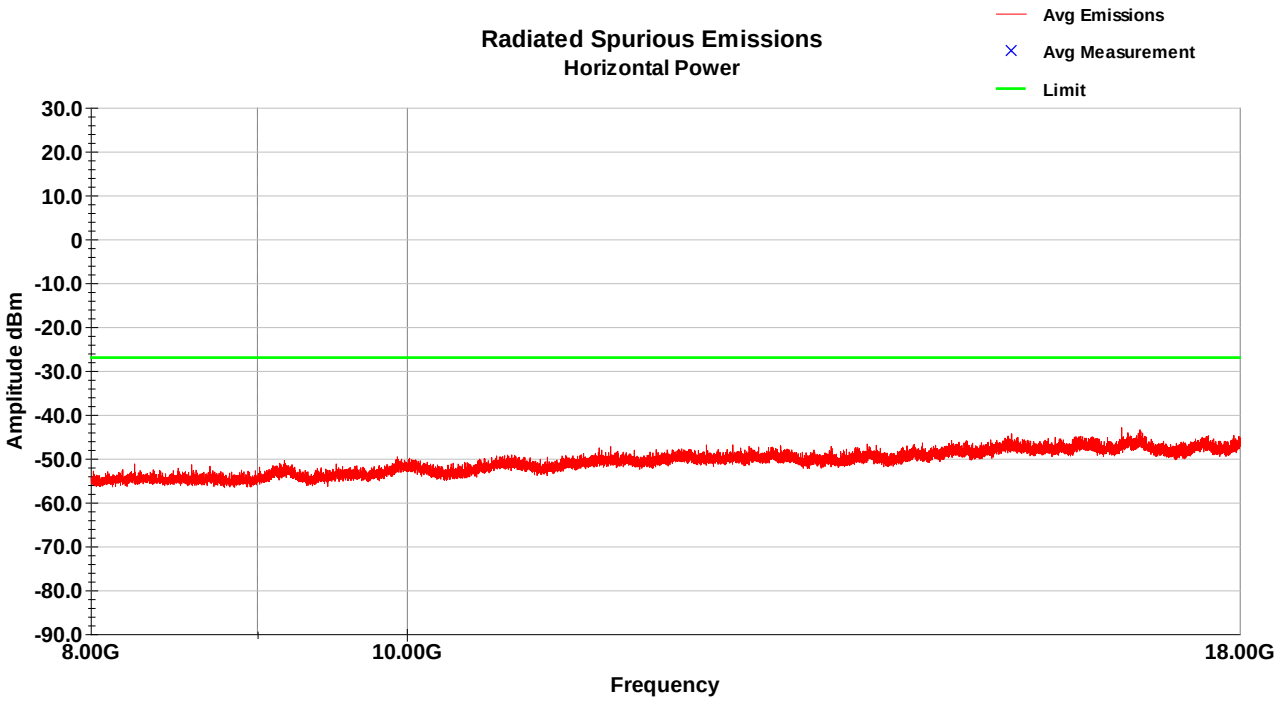

Horizontal Data – 1-8GHz – High Channel

No emissions within 20dB of limit

Vertical Plot – 8-18GHz – High Channel




Horizontal Plot – 8-18GHz – High Channel

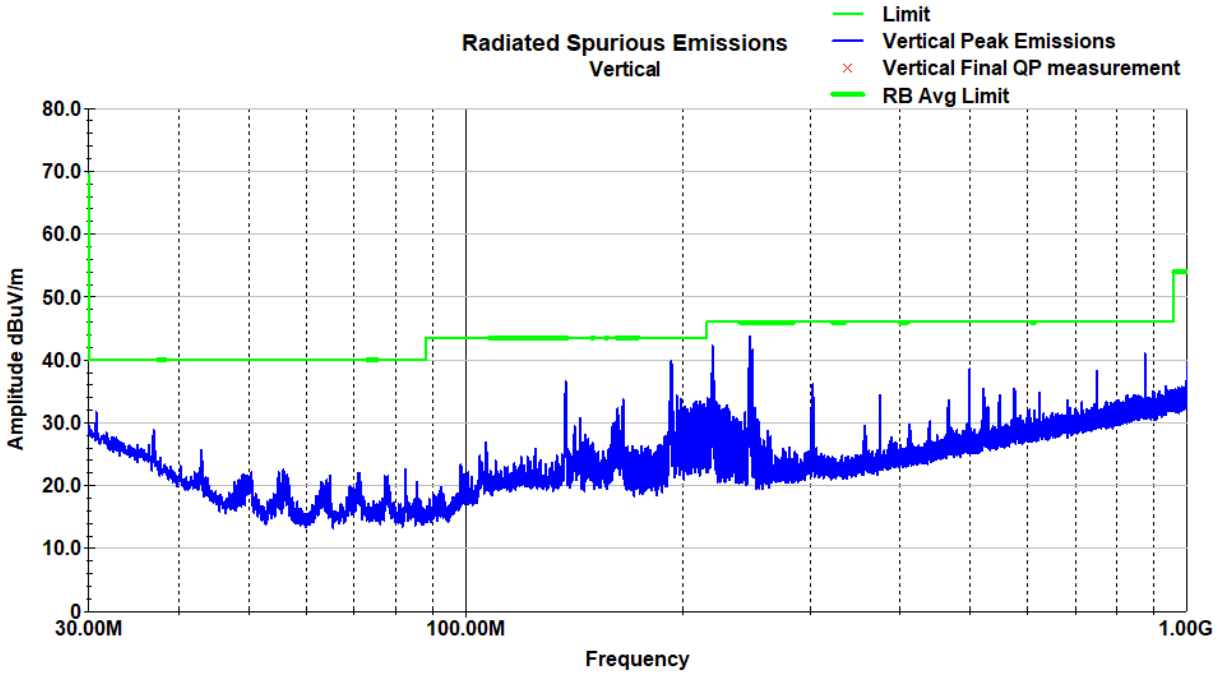


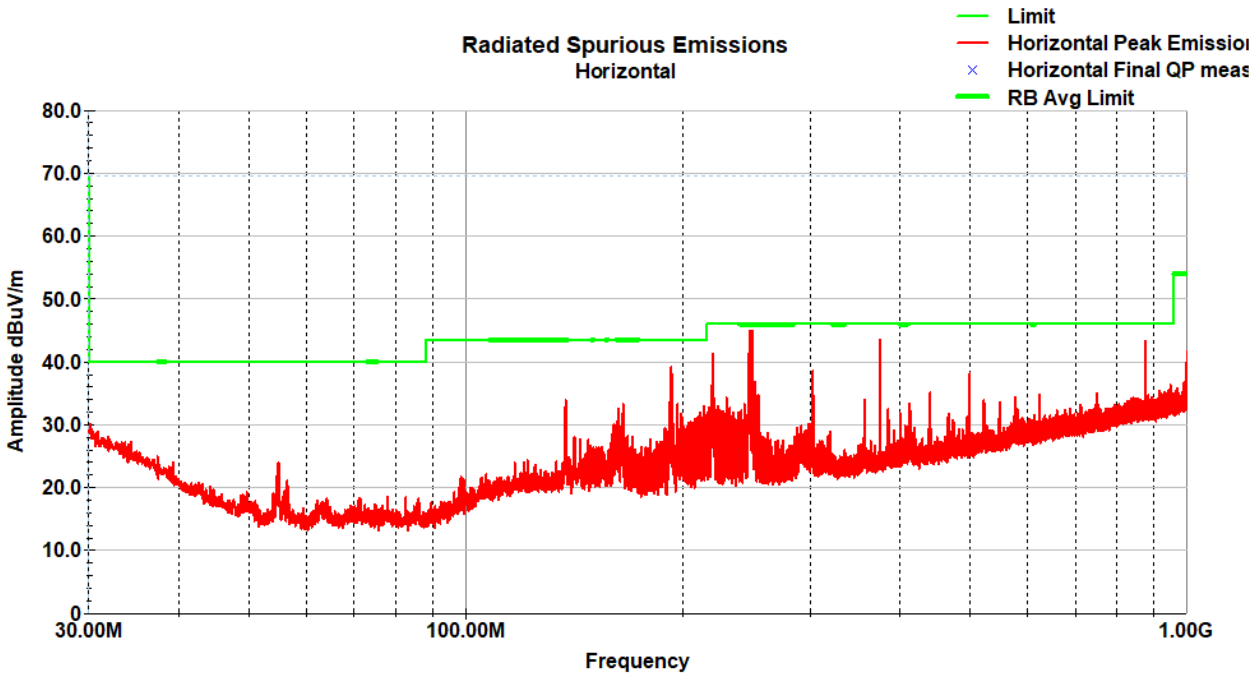

The worst-case final data in this section of -49.4dBm is below the restricted band limit of -41.2dBm. Emissions in the 18-40GHz frequency range were similar to those shown in section 3.11.3 above.

## 3.16 *Test Data: 10-inch Display – U-NII Band 3 – 802.11ac*

### 3.16.1 30-1000 MHz

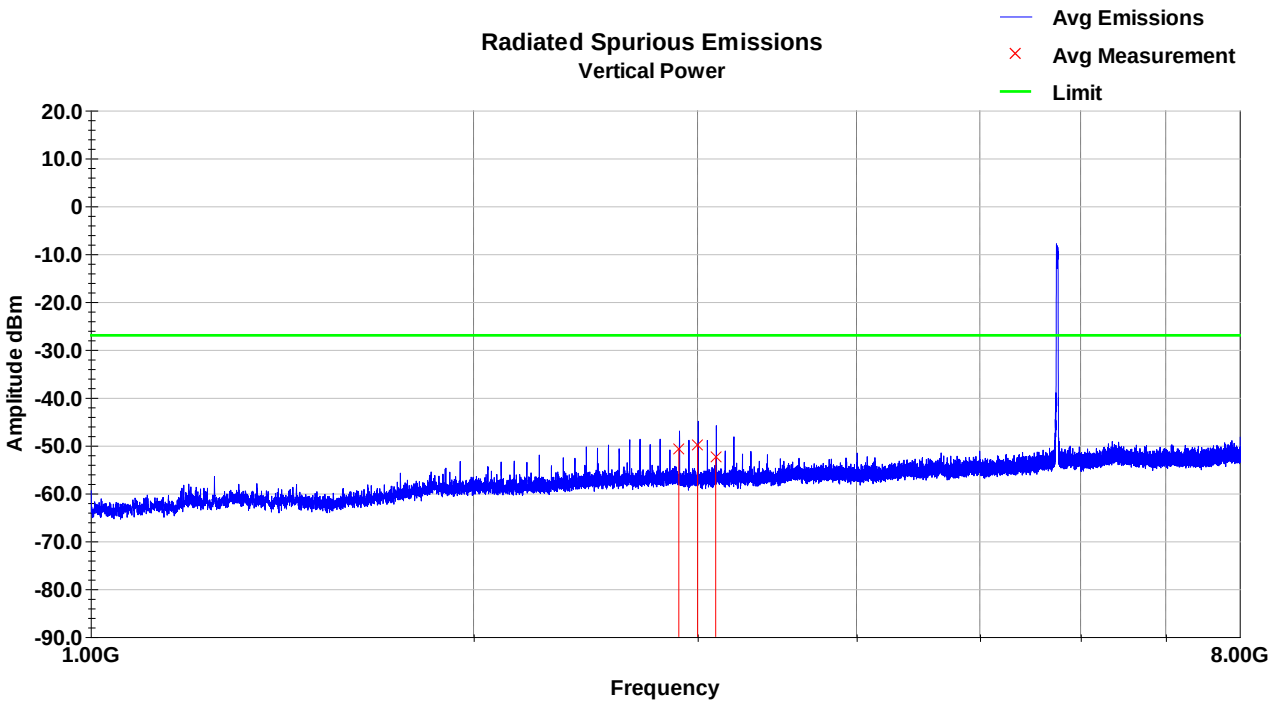
Emissions were confirmed to be non-radio emissions. All channels had similar plots (worst case shown).



### 3.16.2 1-18 GHz

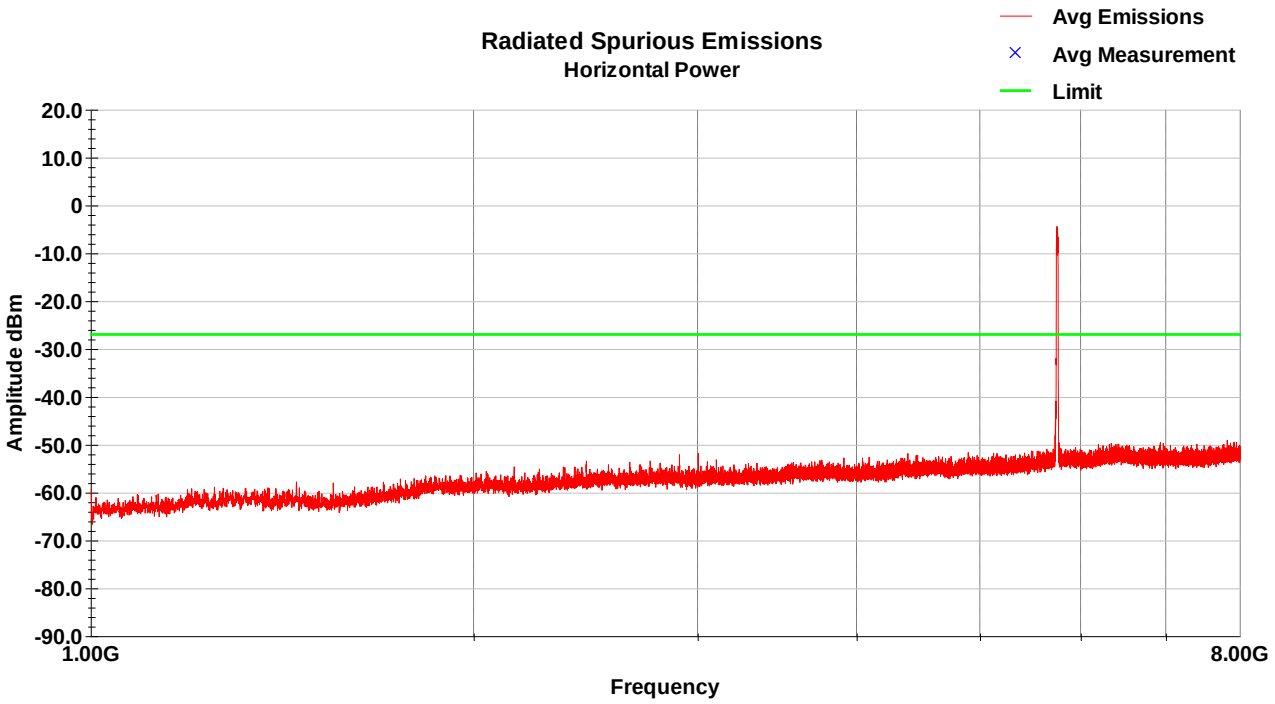
Vertical Plot – 1-8GHz – Low Channel




Vertical Data – 1-8GHz – Low Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2899.95 | -43.6 | V | 4.0 | 146.0 | 32.3 | 2.7 | 42.0 | -50.6 | -27.0 | -23.6 |
| 3000.05 | -43.1 | V | 9.0 | 143.0 | 32.4 | 2.8 | 42.0 | -49.9 | -27.0 | -22.9 |
| 3099.92 | -46.2 | V | 9.0 | 141.0 | 32.8 | 2.8 | 41.9 | -52.5 | -27.0 | -25.5 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

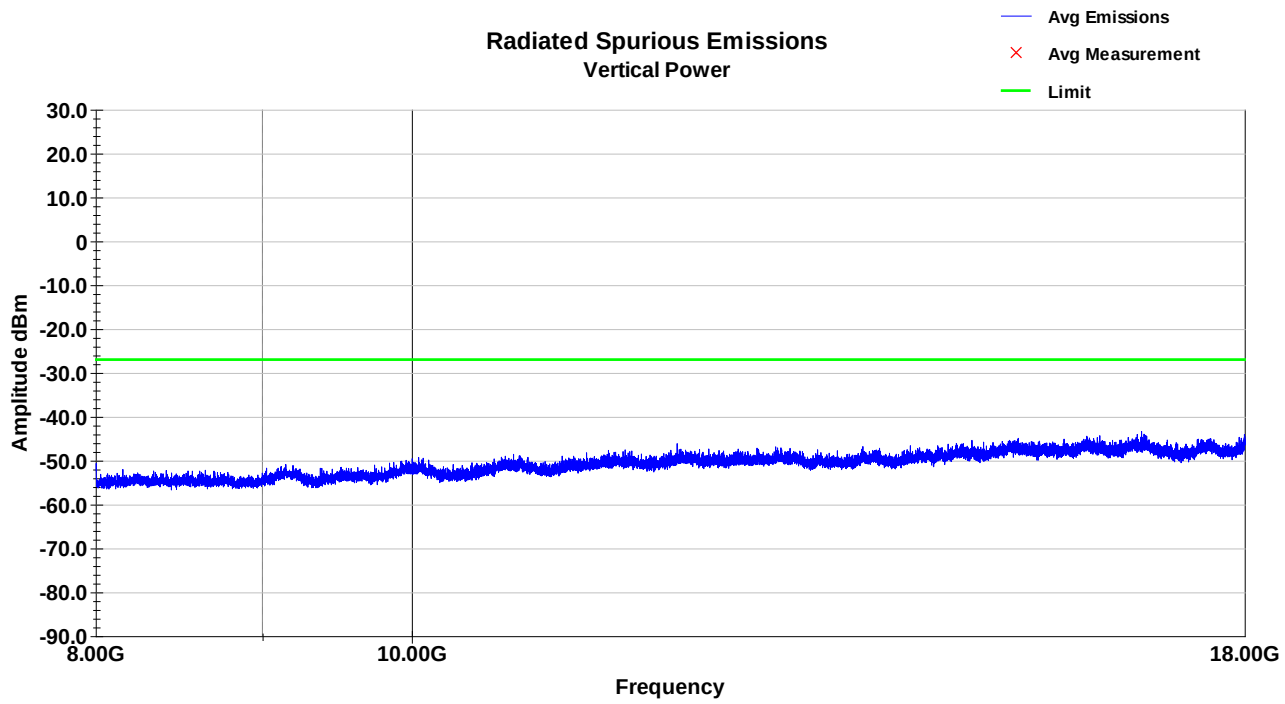
Horizontal Plot – 1-8GHz – Low Channel



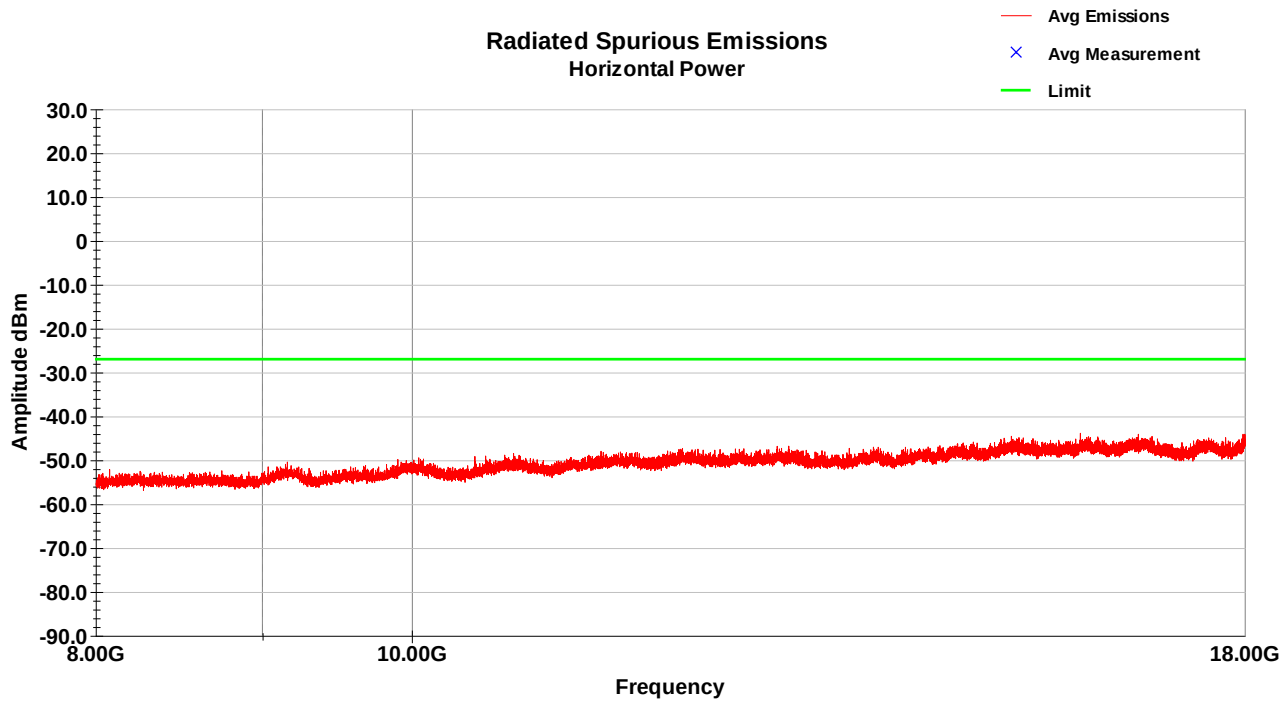

Horizontal Data – 1-8GHz – Low Channel

No emissions within 20dB of limit

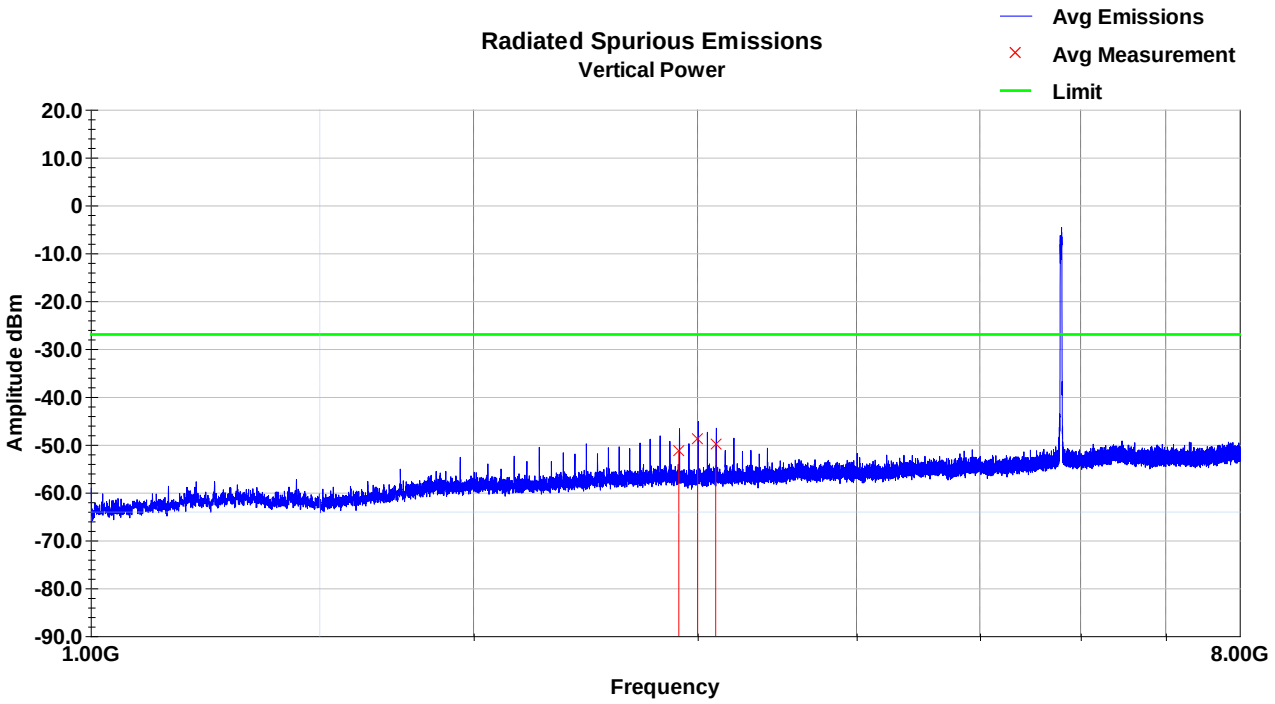
Vertical Plot – 8-18GHz – Low Channel




Horizontal Plot – 8-18GHz – Low Channel



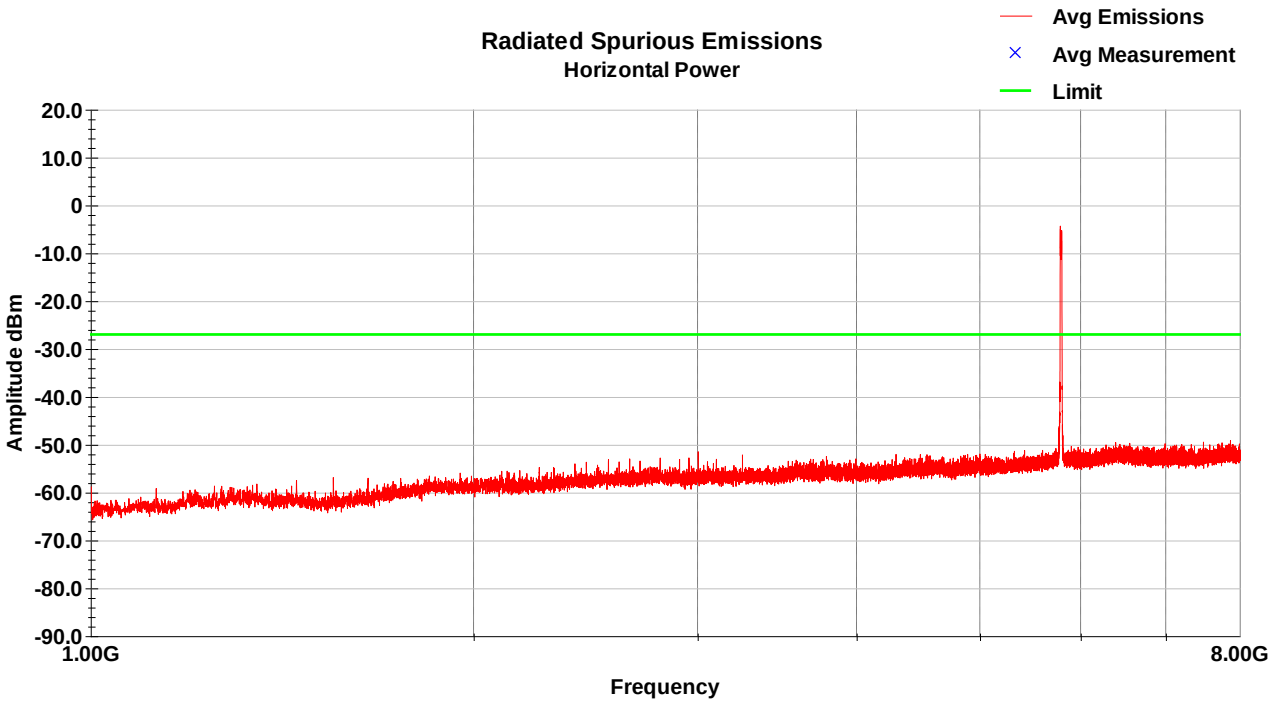
## Vertical Plot – 1-8GHz – Mid Channel




## Vertical Data – 1-8GHz – Mid Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2899.83 | -44.4 | V | 356.0 | 117.0 | 32.3 | 2.7 | 42.0 | -51.4 | -27.0 | -24.4 |
| 3000.17 | -42.0 | V | 11.0 | 100.0 | 32.4 | 2.8 | 42.0 | -48.7 | -27.0 | -21.7 |
| 3100.16 | -43.7 | V | 33.0 | 100.0 | 32.8 | 2.8 | 41.9 | -50.0 | -27.0 | -23.0 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

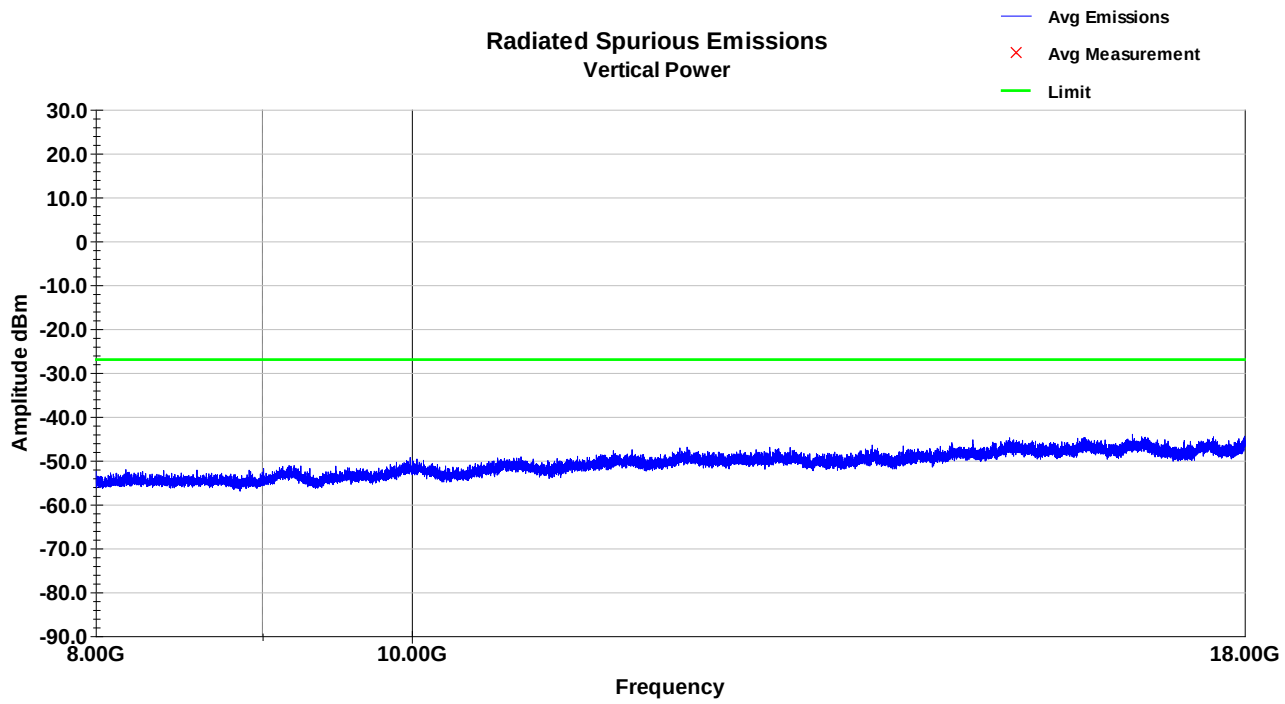
Horizontal Plot – 1-8GHz – Mid Channel



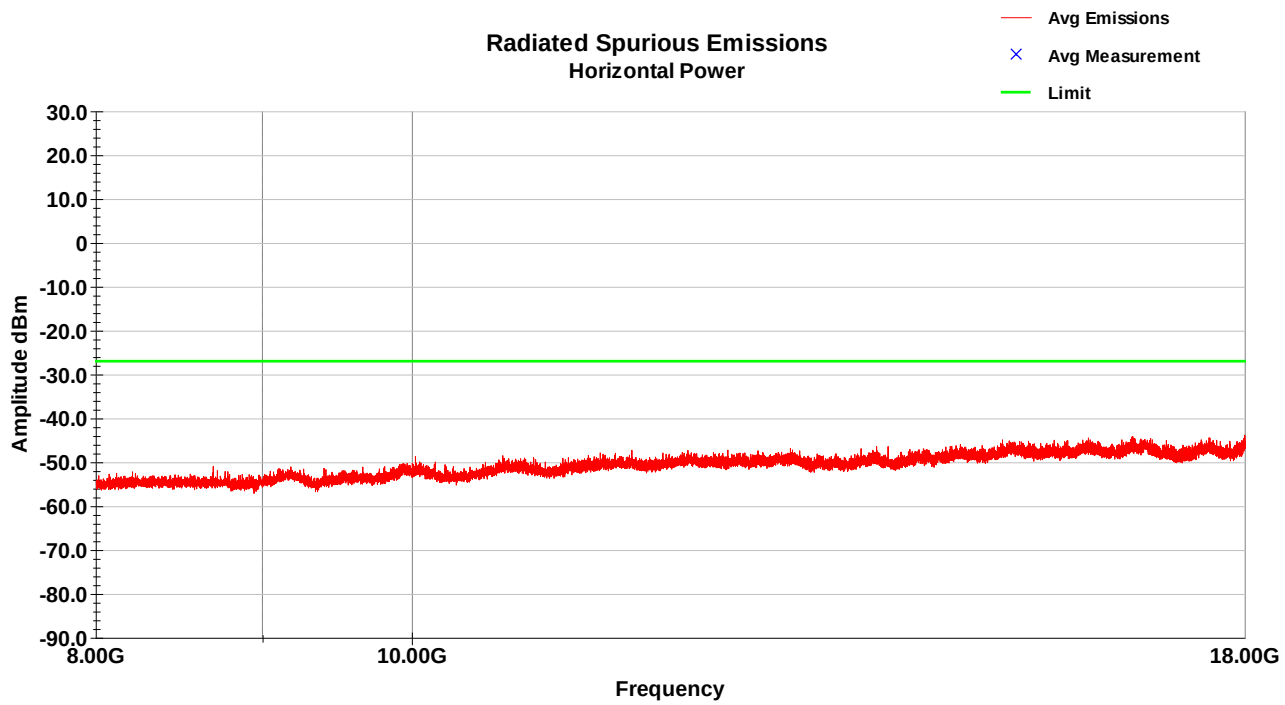

Horizontal Data – 1-8GHz – Mid Channel

No emissions within 20dB of limit

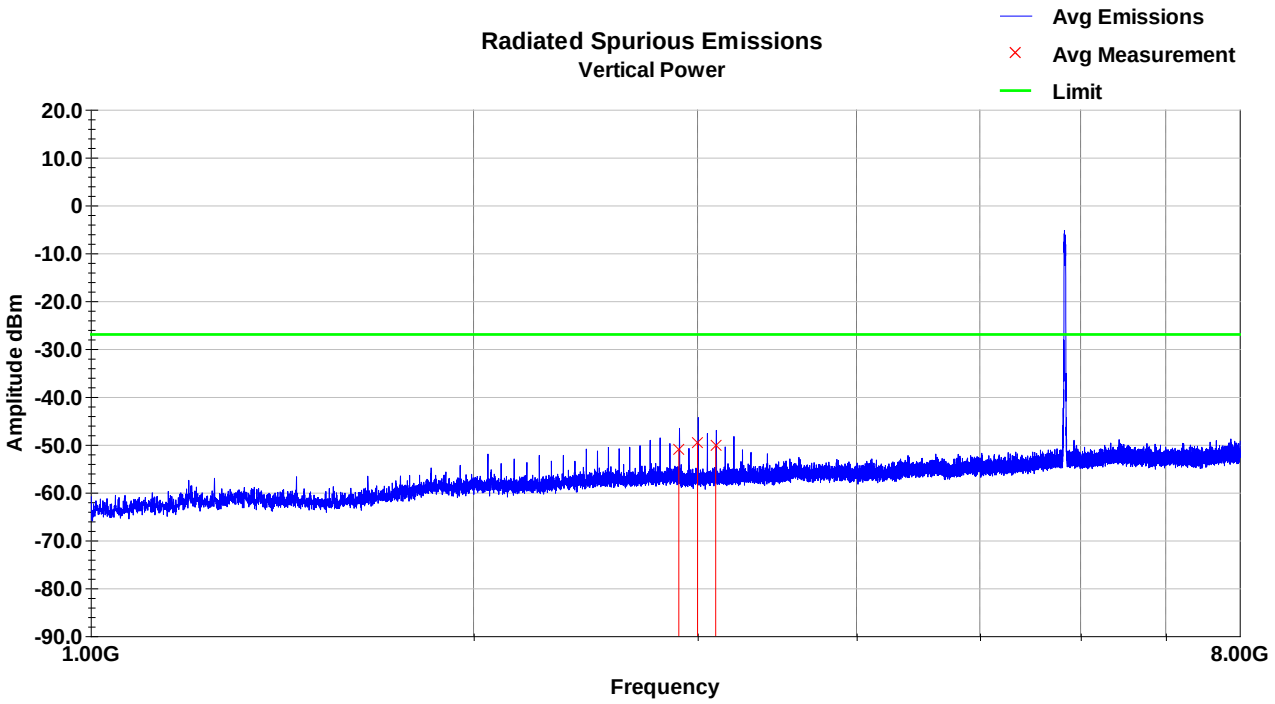
Vertical Plot – 8-18GHz – Mid Channel




Horizontal Plot – 8-18GHz – Mid Channel



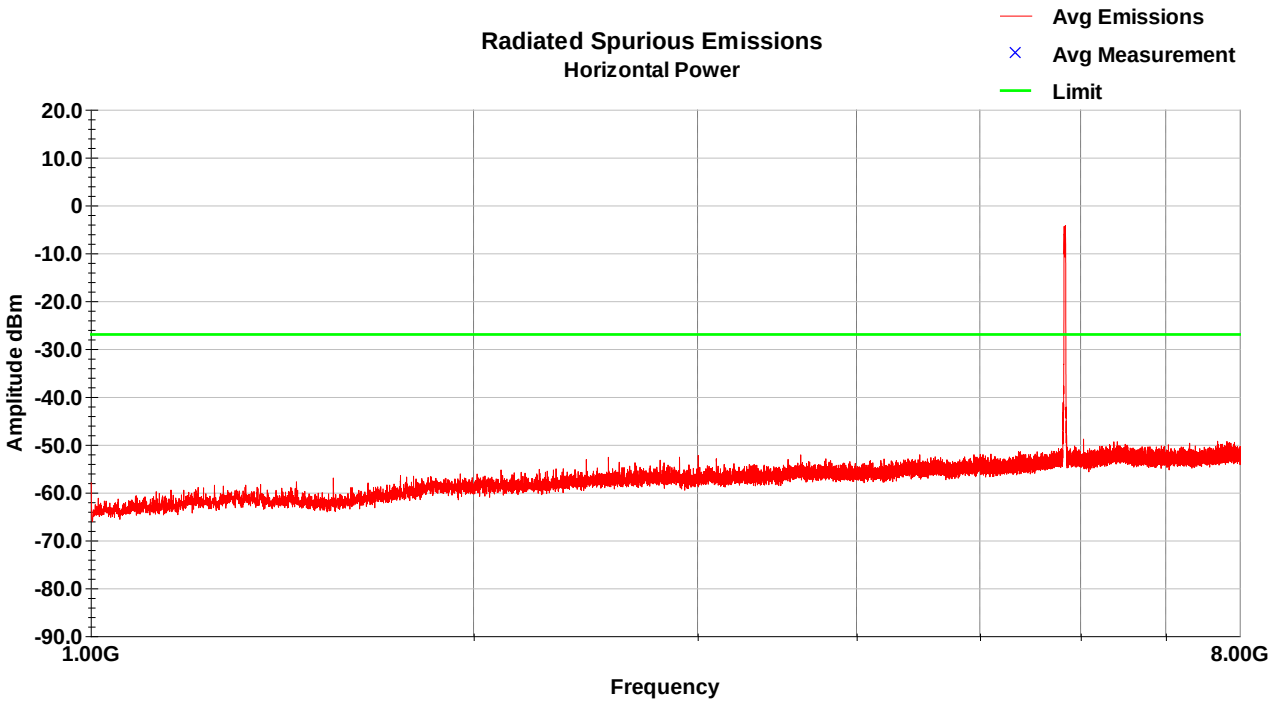
## Vertical Plot – 1-8GHz – High Channel




## Vertical Data – 1-8GHz – High Channel

| Frequency MHz | Raw Avg dBm | Polarity V/H | Azimuth degrees | Height cm | AF dB/m | Loss dB | Amp dB | Avg Value dBm | Limit dBm | Margin dB |
|---|---|---|---|---|---|---|---|---|---|---|
| 2900.07 | -44.0 | V | 8.0 | 101.0 | 32.3 | 2.7 | 42.0 | -51.0 | -27.0 | -24.0 |
| 2999.81 | -43.0 | V | 9.0 | 110.0 | 32.4 | 2.8 | 42.0 | -49.7 | -27.0 | -22.7 |
| 3099.92 | -43.9 | V | 14.0 | 100.0 | 32.8 | 2.8 | 41.9 | -50.2 | -27.0 | -23.2 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Avg Value = Raw Avg + AF + Loss - Amp | | | | | | | | | | |
| Margin = Avg Value - Limit | | | | | | | | | | |

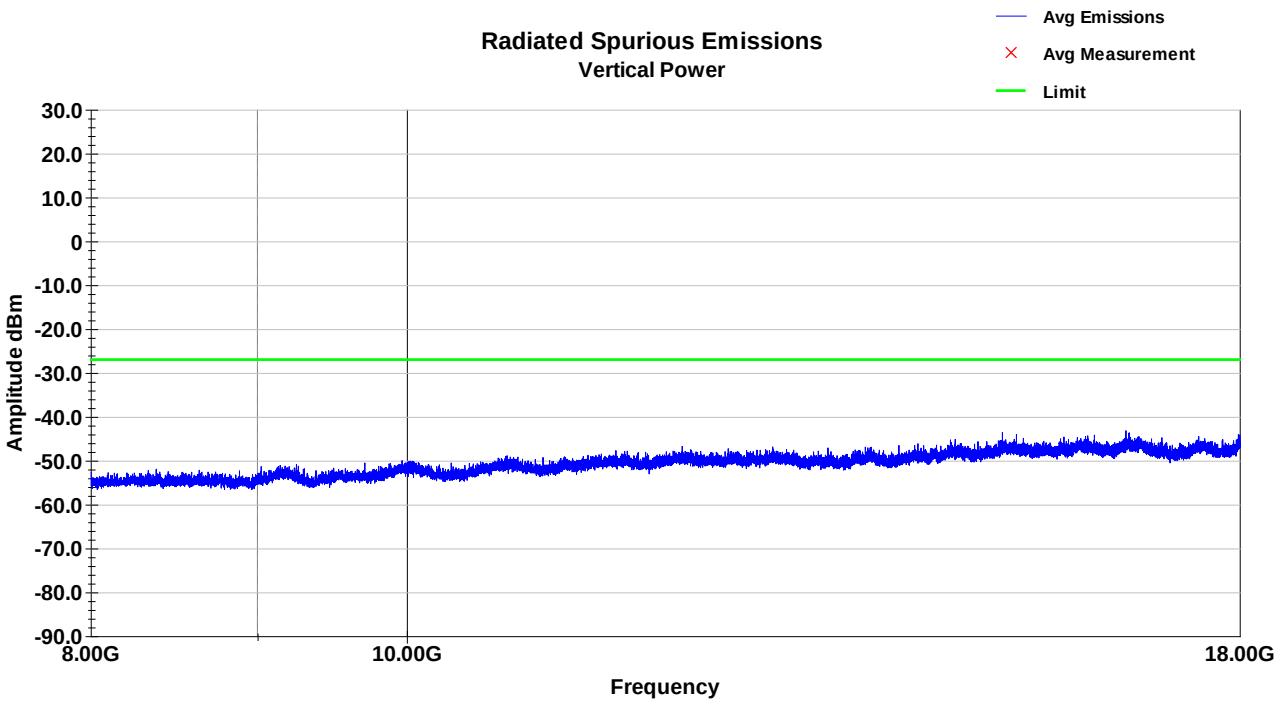
Horizontal Plot – 1-8GHz – High Channel



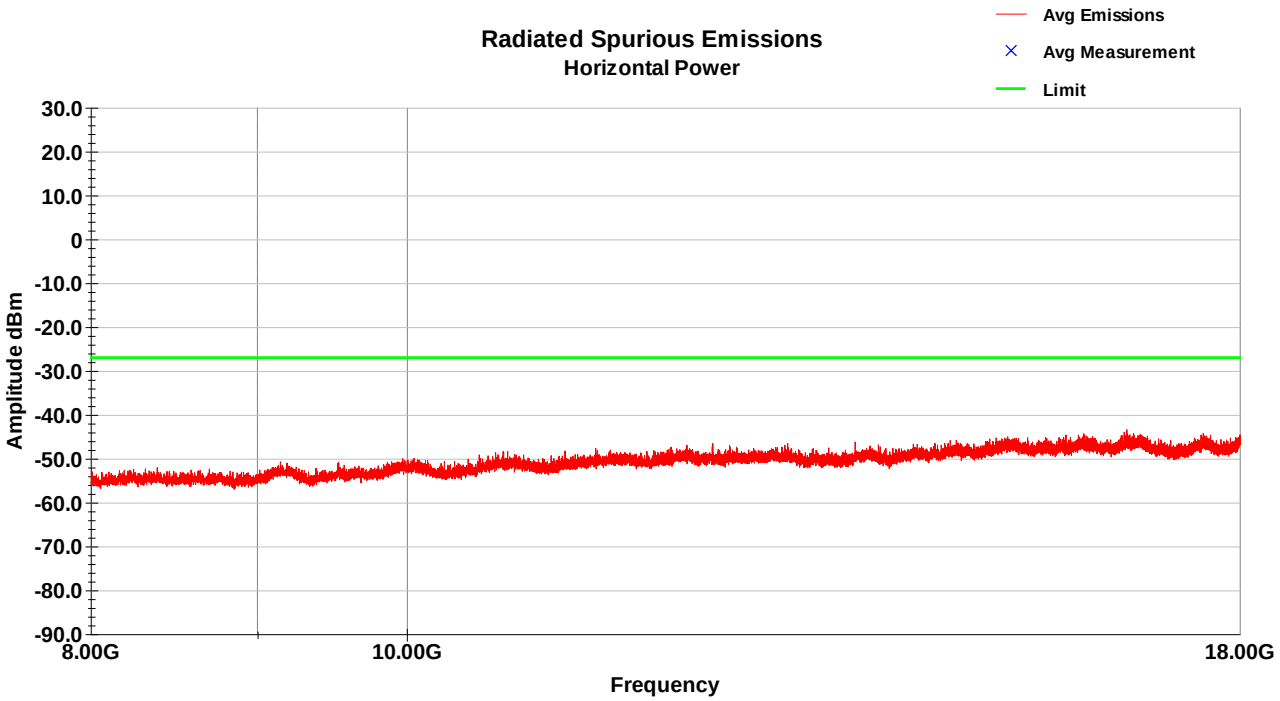

Horizontal Data – 1-8GHz – High Channel

No emissions within 20dB of limit

Vertical Plot – 8-18GHz – High Channel




Horizontal Plot – 8-18GHz – High Channel




The worst-case final data in this section of -48.7dBm is below the restricted band limit of -41.2dBm. Emissions in the 18-40GHz frequency range were similar to those shown in section 3.11.3 above.

# 4 AC Powerline Conducted Emissions

## 4.1 *Test Result*

| Test Description | Test Specification | | Test Result |
|---|---|---|---|
| AC Powerline Conducted Emissions | 15.207 | RSS-GEN 8.8 | Compliant |

## 4.2 *Test Method*

With the receiver's resolution bandwidth was set to 9 kHz, exploratory scans were performed over the measuring frequency range (0.15 MHz to 30 MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

| Frequency Range | Limits (dBuV) |
|---|---|
| 0.15 to 0.5 MHz | Avg 56 to 46<br>QP 66 to 56 |
| 0.5 to 5 MHz | Avg 46<br>Pk 56 |
| 5 to 30 MHz | Avg 50<br>Pk 60 |

## 4.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

| Environmental Conditions | 3-23-2023 | 4-7-2023 |
|---|---|---|
| Temperature: | 22.1 °C | 25.1 °C |
| Relative Humidity: | 42.8 % | 40.6 % |
| Atmospheric Pressure: | 98.7 kPa | 98.1 kPa |

## 4.4 *Test Equipment*

Test End Date: 23-Mar-2023 Tester: PL

| Equipment | Model | Manufacturer | Asset | Cal Date | Cal Due Date |
|---|---|---|---|---|---|
| EMI TEST RECEIVER | ESW44 | ROHDE & SCHWARZ | 22027 | 13-Sep-2022 | 13-Sep-2023 |
| RF CABLE | UC-N-MM-78 | MAURY MICROWAVE | 17017 | 25-Aug-2022 | 25-Aug-2023 |
| LINE IMPEDANCE STABILIZATION NETWORK | NNB 51 | TESEQ | B087573 | 13-Dec-2022 | 13-Dec-2023 |
| IMPEDANCE STABILIZATION NETWORK | ISN T8-CAT6 | TESEQ | B085926 | 18-Apr-2022 | 18-Apr-2023 |

Test End Date: 7-Apr-2023 Tester: ZH

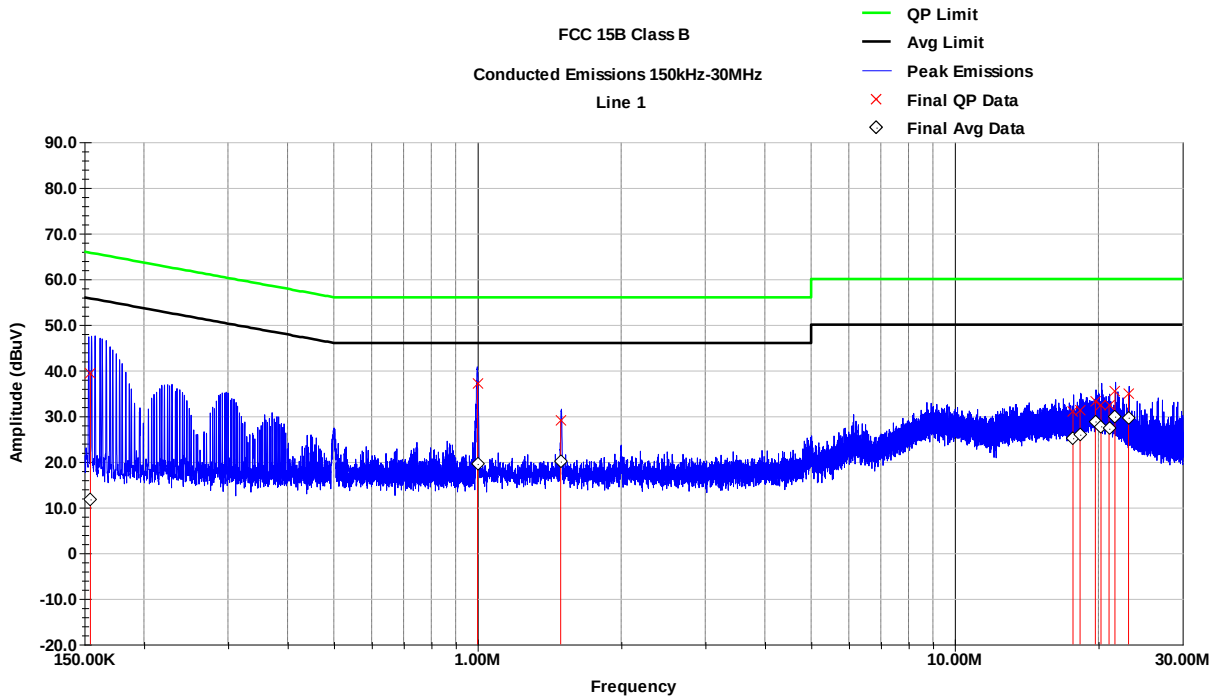
| Equipment | Model | Manufacturer | Asset | Cal Date | Cal Due Date |
|---|---|---|---|---|---|
| EMI TEST RECEIVER | ESW44 | ROHDE & SCHWARZ | 22027 | 13-Sep-2022 | 13-Sep-2023 |
| RF CABLE | UC-N-MM-78 | MAURY MICROWAVE | 17017 | 25-Aug-2022 | 25-Aug-2023 |
| LINE IMPEDANCE STABILIZATION NETWORK | NNB 51 | TESEQ | B087573 | 13-Dec-2022 | 13-Dec-2023 |
| IMPEDANCE STABILIZATION NETWORK | ISN T8-CAT6 | TESEQ | B085926 | 18-Apr-2022 | 18-Apr-2023 |

Software: TILE! software profile "Conducted Emissions 230206.til" dated 09-Feb-2023

## 4.5 *Test Data*

### 4.5.1 7-inch Display

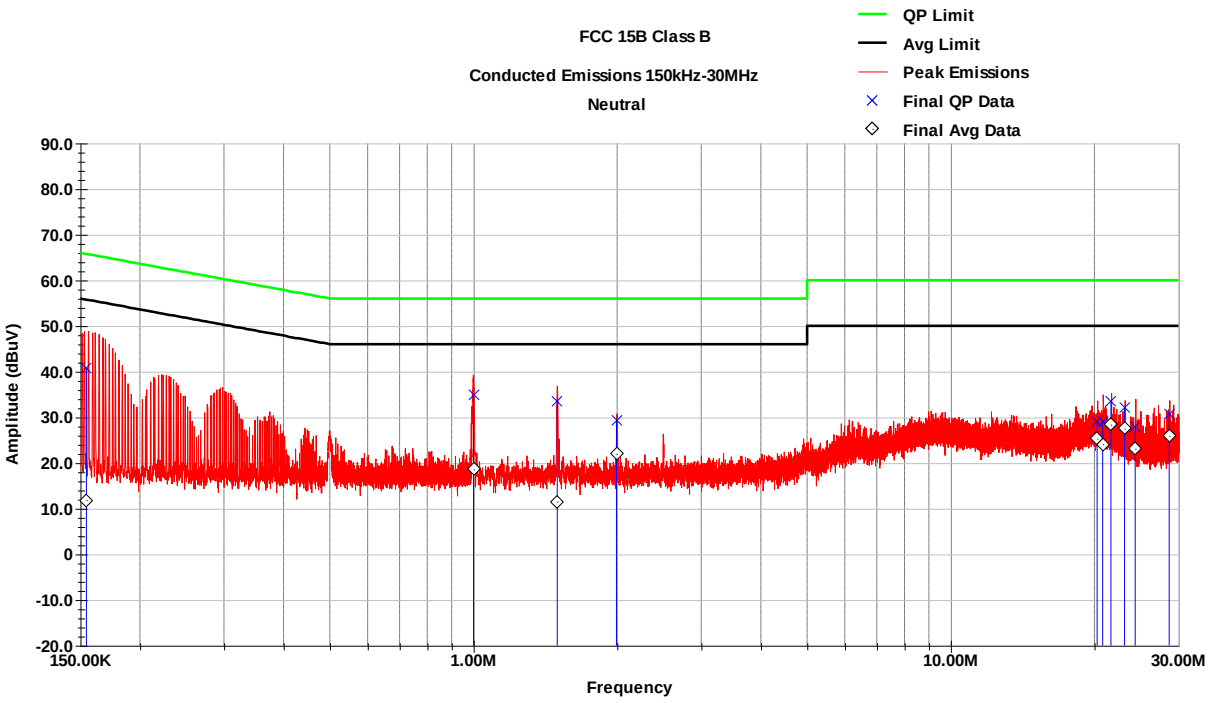
Line 1 Conducted Emissions – Peak Plot




Line 1 Conducted Emissions – Tabular Data

| Frequency MHz | QP Value dBuV | QP Limit dBuV | QP Margin dB | Avg Value dBuV | Avg Limit dBuV | Avg Margin dB |
|---|---|---|---|---|---|---|
| 0.154 | 39.4 | 65.7 | -26.3 | 11.8 | 55.7 | -44.0 |
| 1.000 | 37.2 | 56.0 | -18.8 | 19.5 | 46.0 | -26.5 |
| 1.494 | 29.1 | 56.0 | -26.9 | 20.0 | 46.0 | -26.0 |
| 17.691 | 30.9 | 60.0 | -29.1 | 25.2 | 50.0 | -24.8 |
| 18.305 | 31.3 | 60.0 | -28.7 | 25.9 | 50.0 | -24.1 |
| 19.709 | 33.1 | 60.0 | -26.9 | 28.8 | 50.0 | -21.2 |
| 20.256 | 32.3 | 60.0 | -27.7 | 27.8 | 50.0 | -22.2 |
| 21.052 | 32.5 | 60.0 | -27.5 | 27.2 | 50.0 | -22.8 |
| 21.662 | 35.4 | 60.0 | -24.6 | 29.9 | 50.0 | -20.1 |
| 23.128 | 35.0 | 60.0 | -25.0 | 29.7 | 50.0 | -20.3 |

## Neutral Conducted Emissions – Peak Plot

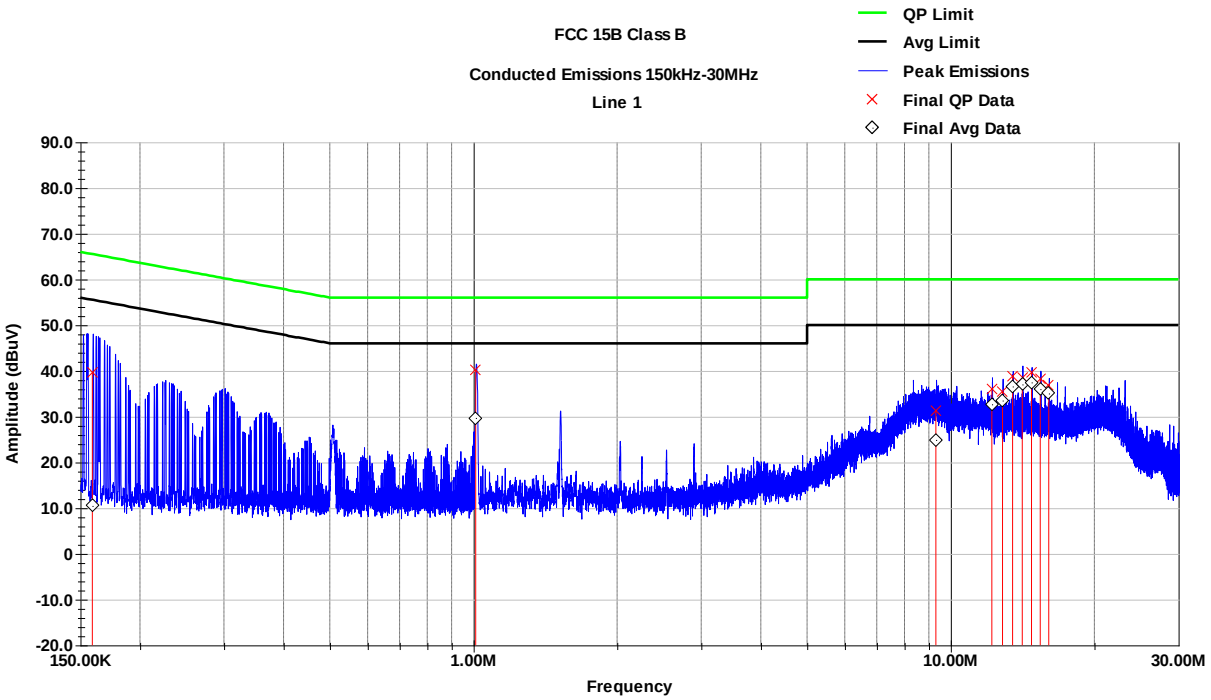



## Neutral Conducted Emissions – Tabular Data

| Frequency MHz | QP Value dBuV | QP Limit dBuV | QP Margin dB | Avg Value dBuV | Avg Limit dBuV | Avg Margin dB |
|---|---|---|---|---|---|---|
| 0.154 | 40.8 | 65.7 | -24.9 | 11.9 | 55.7 | -43.9 |
| 1.000 | 35.0 | 56.0 | -21.0 | 18.6 | 46.0 | -27.4 |
| 1.498 | 33.6 | 56.0 | -22.4 | 11.5 | 46.0 | -34.5 |
| 1.994 | 29.2 | 56.0 | -26.8 | 22.0 | 46.0 | -24.0 |
| 20.261 | 29.0 | 60.0 | -31.0 | 25.3 | 50.0 | -24.7 |
| 20.811 | 29.0 | 60.0 | -31.0 | 24.1 | 50.0 | -25.9 |
| 21.663 | 33.5 | 60.0 | -26.5 | 28.4 | 50.0 | -21.6 |
| 23.128 | 32.1 | 60.0 | -27.9 | 27.6 | 50.0 | -22.4 |
| 24.349 | 28.0 | 60.0 | -32.0 | 23.1 | 50.0 | -26.9 |
| 28.683 | 30.8 | 60.0 | -29.2 | 25.9 | 50.0 | -24.1 |

### 4.5.2 10-inch Display

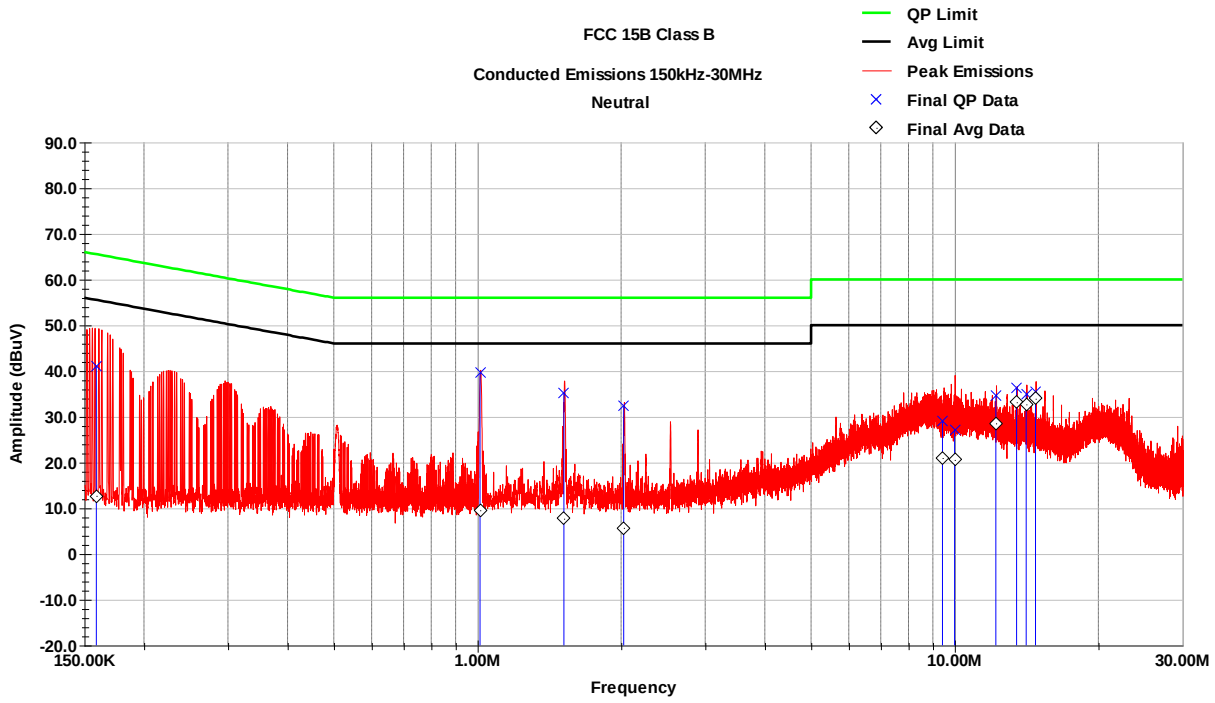
Line 1 Conducted Emissions – Peak Plot




Line 1 Conducted Emissions – Tabular Data

| Frequency MHz | QP Value dBuV | QP Limit dBuV | QP Margin dB | Avg Value dBuV | Avg Limit dBuV | Avg Margin dB |
|---|---|---|---|---|---|---|
| 0.159 | 39.7 | 65.5 | -25.8 | 10.5 | 55.5 | -45.1 |
| 1.011 | 40.2 | 56.0 | -15.8 | 29.7 | 46.0 | -16.3 |
| 9.311 | 31.4 | 60.0 | -28.6 | 24.9 | 50.0 | -25.1 |
| 12.197 | 36.1 | 60.0 | -23.9 | 32.7 | 50.0 | -17.3 |
| 12.837 | 35.5 | 60.0 | -24.5 | 33.5 | 50.0 | -16.5 |
| 13.481 | 38.8 | 60.0 | -21.2 | 36.6 | 50.0 | -13.4 |
| 14.121 | 38.4 | 60.0 | -21.6 | 37.0 | 50.0 | -13.0 |
| 14.764 | 39.6 | 60.0 | -20.4 | 37.5 | 50.0 | -12.5 |
| 15.405 | 38.1 | 60.0 | -21.9 | 36.0 | 50.0 | -14.0 |
| 16.049 | 36.9 | 60.0 | -23.1 | 35.1 | 50.0 | -14.9 |

## Neutral Conducted Emissions – Peak Plot




## Neutral Conducted Emissions – Tabular Data

| Frequency MHz | QP Value dBuV | QP Limit dBuV | QP Margin dB | Avg Value dBuV | Avg Limit dBuV | Avg Margin dB |
|---|---|---|---|---|---|---|
| 0.159 | 41.1 | 65.5 | -24.4 | 12.7 | 55.5 | -42.8 |
| 1.012 | 39.6 | 56.0 | -16.4 | 9.5 | 46.0 | -36.5 |
| 1.517 | 35.2 | 56.0 | -20.8 | 7.7 | 46.0 | -38.3 |
| 2.025 | 32.2 | 56.0 | -23.8 | 5.7 | 46.0 | -40.3 |
| 9.427 | 28.9 | 60.0 | -31.1 | 21.0 | 50.0 | -29.0 |
| 9.995 | 27.2 | 60.0 | -32.8 | 20.6 | 50.0 | -29.4 |
| 12.197 | 34.7 | 60.0 | -25.3 | 28.6 | 50.0 | -21.4 |
| 13.481 | 36.2 | 60.0 | -23.8 | 33.2 | 50.0 | -16.8 |
| 14.118 | 34.9 | 60.0 | -25.1 | 32.7 | 50.0 | -17.3 |
| 14.764 | 35.5 | 60.0 | -24.5 | 33.9 | 50.0 | -16.1 |

# 5 Measurement Uncertainty

The measurement uncertainty figures are be calculated in accordance with TR 100 028-1 [2] and correspond to an expansion factor (coverage factor) k = 2 (which provide confidence levels of 95,45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)).

| | Expanded Uncertainty for Normal k factor equal to 2 | |
|---|---|---|
| Parameter | Required | Laboratory Actual |
| Radio Frequency | ±1 x 10-5 | ±9.8 x 10-8 |
| total RF power, conducted | ±1.5 dB | ±1.2 dB |
| RF power density, conducted | ±3 dB | ±0.7 dB |
| spurious emissions, conducted | ±3 dB | ±2.1 dB |
| all emissions, radiated | ±6 dB | ±4.8 dB |
| temperature | ±1°C | ±0.5°C |
| humidity | ±5 % | ±3.5% |
| DC and low frequency voltages | ±3 % | ±0.4% |

# 6 Revision History

| Revision Level | Description of changes | Revision Date |
|---|---|---|
| 0 | Initial release | 27 April 2023 |
| 1 | Added EUT board part number in section 2.3 | 10 May 2023 |
| 2 | - Updated Summary of Test Results table in section 1<br>- Added more information regarding limits in section 3.2<br>- Added statements of compliance to RB limits in several sections<br>- Added 18-40GHz Radiated Spurious Emissions test results<br>- Added AC Powerline Conducted Emissions test results | 01 September 2023 |
| | | |
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