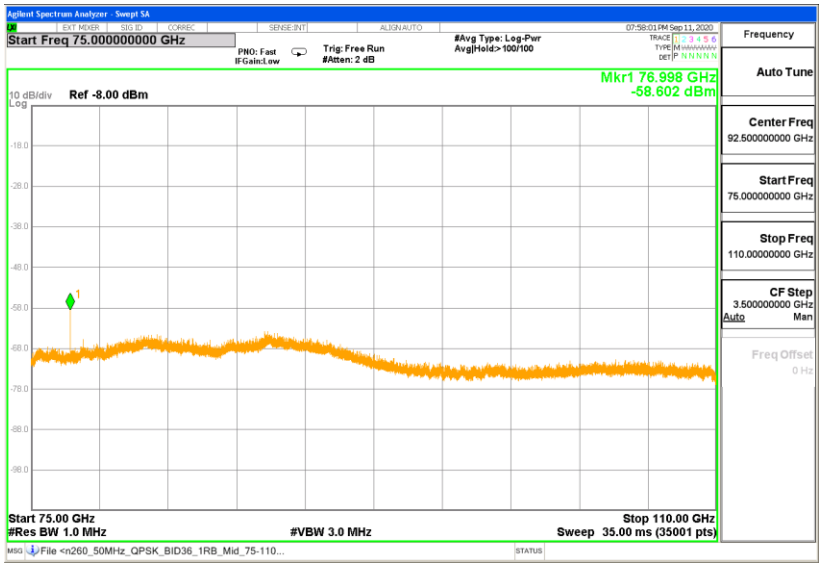
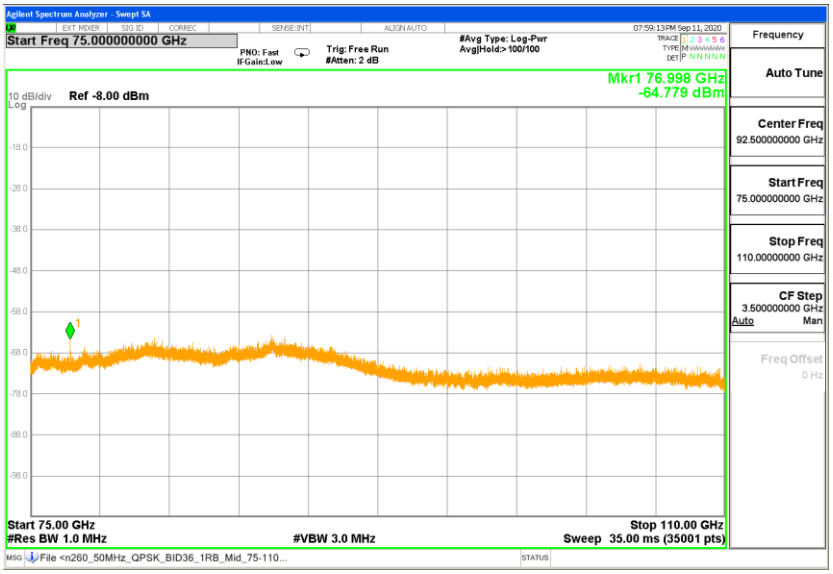
**75-110 GHz – n260, ANT M2**
**Horizontal**




**75-110 GHz – n260, ANT M2**
**Vertical**




Emissions detected using Peak Detection. Avg EIRP was measured.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**75-110 GHz n260**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 76.998 | 1 | H | -44.84 | -13 | -31.84 |
| M1 | 76.998 | 1 | V | -49.43 | -13 | -36.43 |
| | | | | | | |
| M2 | 76.998 | 1 | H | -30.36 | -13 | -17.36 |
| M2 | 76.998 | 1 | V | -42.64 | -13 | -29.64 |


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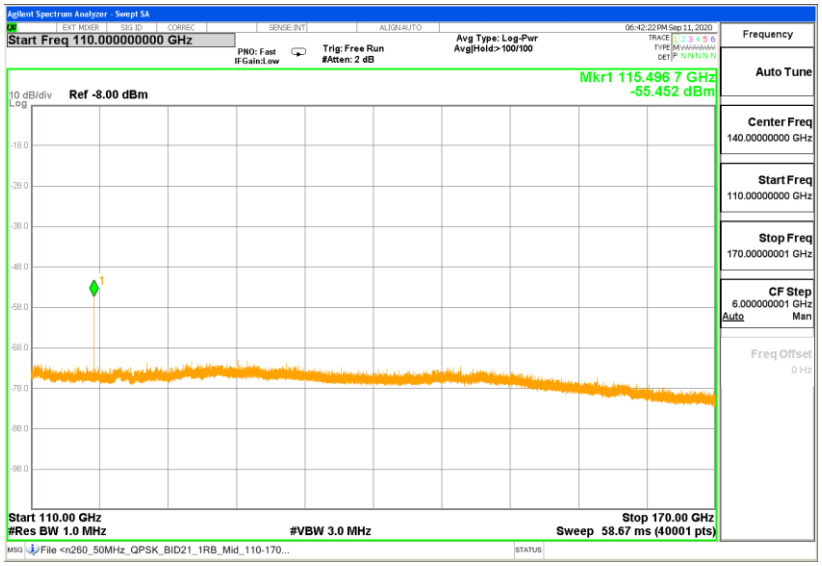
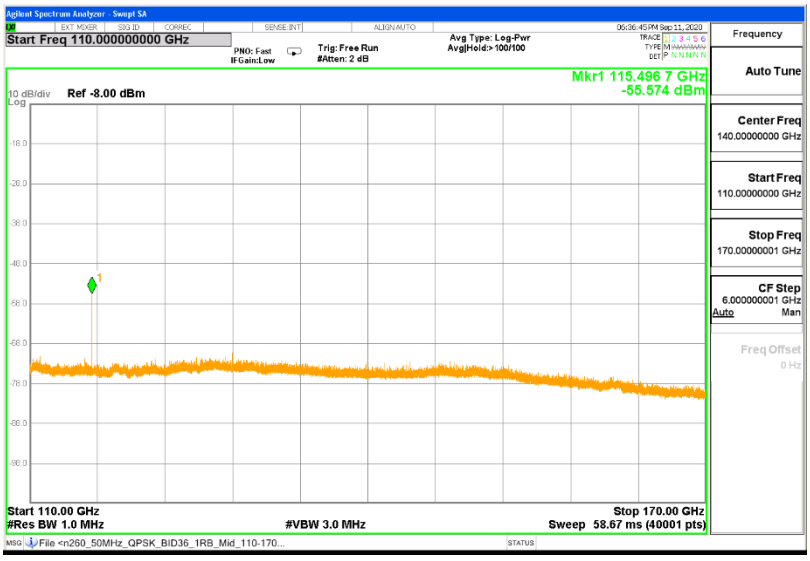
## 8.4.8. RADIATED EMISSIONS 110-170 GHz n260

**110-170 GHz – n260, ANT M1**
**Horizontal**




**110-170 GHz – n260, ANT M1**
**Vertical**




Emissions detected using Peak Detection. Avg EIRP was measured.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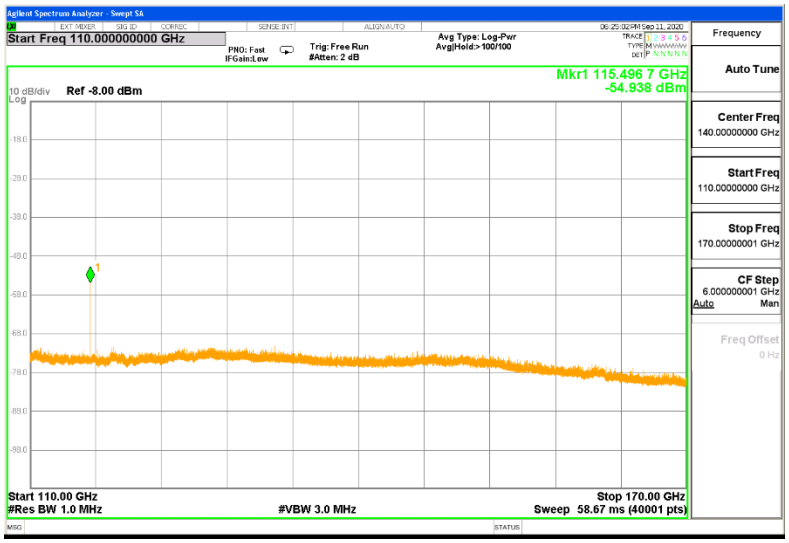
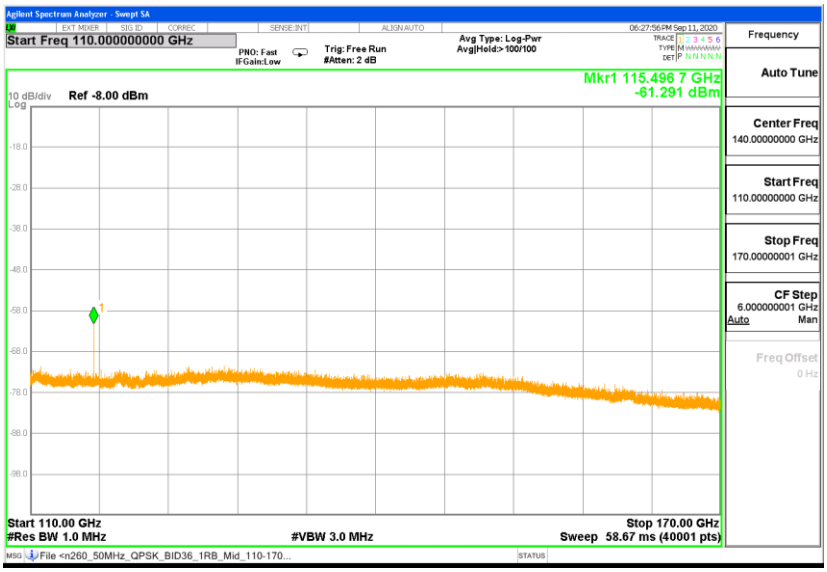
**110-170 GHz – n260, ANT M2**
**Horizontal**




**110-170 GHz – n260, ANT M2**
**Vertical**




Emissions detected using Peak Detection. Avg EIRP was measured.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**110-170 GHz n260**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 115.50 | 1 | H | -33.10 | -13 | -20.10 |
| M1 | 115.50 | 1 | V | -41.97 | -13 | -28.97 |
| | | | | | | |
| M2 | 115.50 | 1 | H | -36.47 | -13 | -23.47 |
| M2 | 115.50 | 1 | V | -27.12 | -13 | -14.12 |


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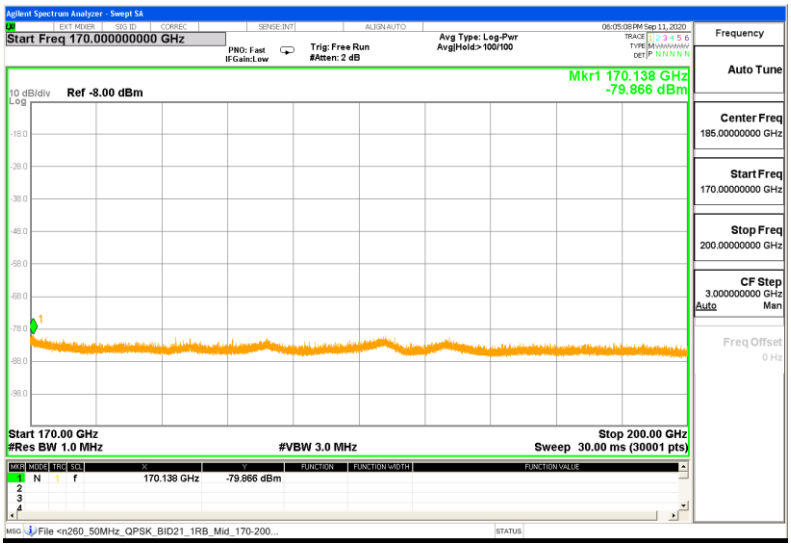
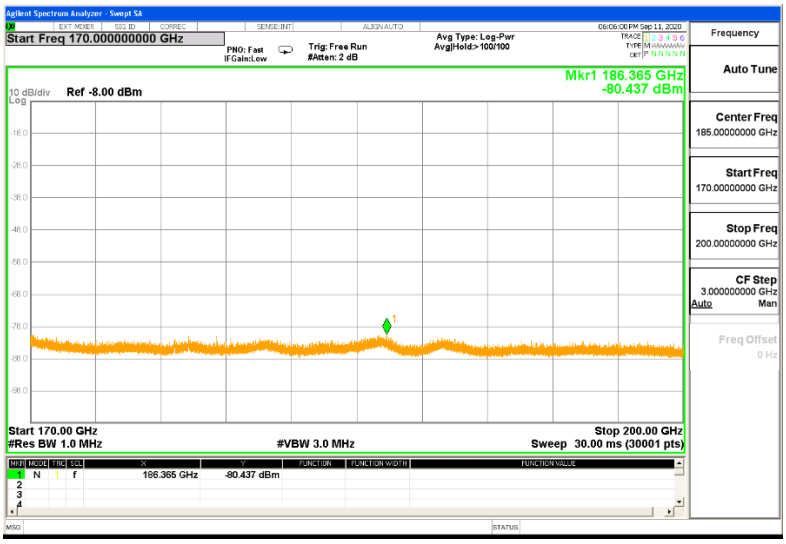
## 8.4.9. RADIATED EMISSIONS 170-200 GHz n260

**170-200 GHz – n260, ANT M1**
**Horizontal**




**170-200 GHz – n260, ANT M1**
**Vertical**




No Emission using Peak Detection.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**170-200 GHz – n260, ANT M2**
**Horizontal**

**170-200 GHz – n260, ANT M2**
**Vertical**

No Emission using Peak Detection.


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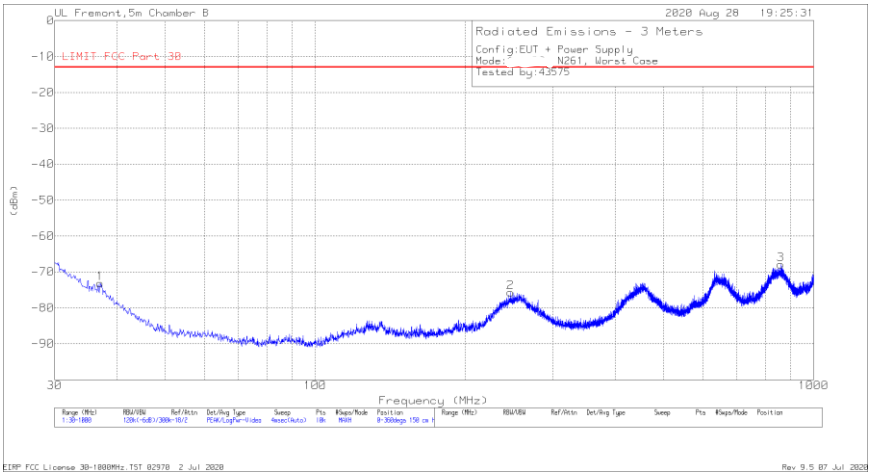
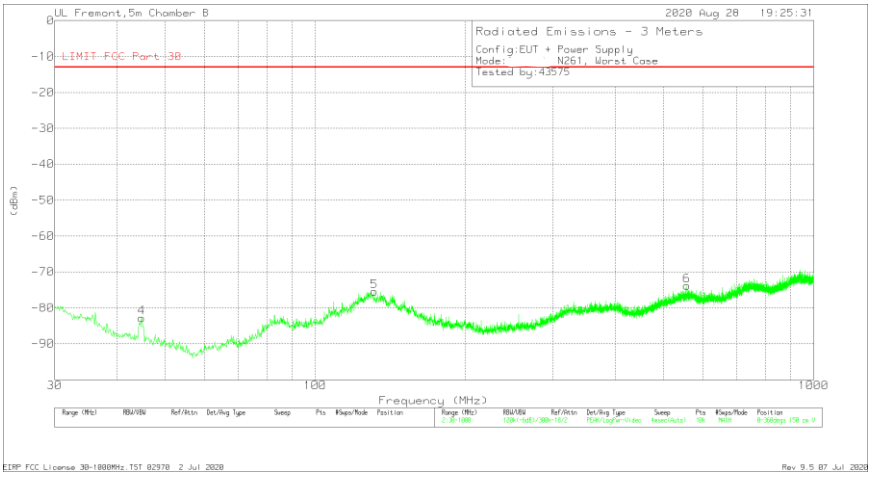
## 8.4.10. RADIATED EMISSIONS 30 MHz - 1 GHz n261

**30MHz-1000MHz – n261, ANT M1**

Horizontal




Vertical




### Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | AF T407 (dB/m) | Amp/Cbl (dB) | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT FCC Part 30 (dBm/MHz) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 36.984 | -79.31 | Pk | 22 | -31.3 | 15.4 | -73.21 | -13 | -60.21 | 0-360 | 150 | H |
| 4 | 44.841 | -74.89 | Pk | 16.3 | -31.2 | 7 | -82.79 | -13 | -69.79 | 0-360 | 150 | V |
| 5 | 131.365 | -79.35 | Pk | 19.5 | -30.4 | 14.8 | -75.45 | -13 | -62.45 | 0-360 | 150 | V |
| 2 | 246.698 | -79.13 | Pk | 17.5 | -29.8 | 15.7 | -75.73 | -13 | -62.73 | 0-360 | 150 | H |
| 6 | 556.613 | -78.27 | Pk | 24.1 | -28.9 | 9.3 | -73.77 | -13 | -60.77 | 0-360 | 150 | V |
| 3 | 859.253 | -79.59 | Pk | 27.7 | -27.2 | 11.2 | -67.89 | -13 | -54.89 | 0-360 | 150 | H |

Pk - Peak detector
Rev 9.5 07 Jul 2020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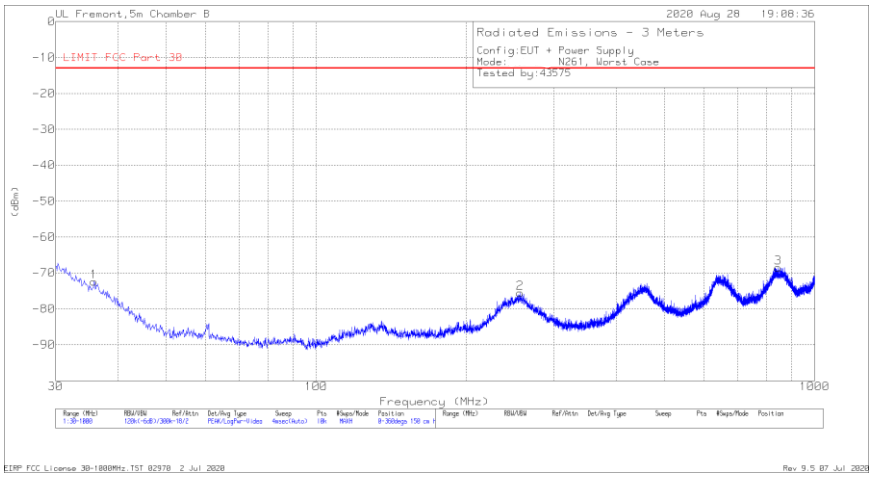
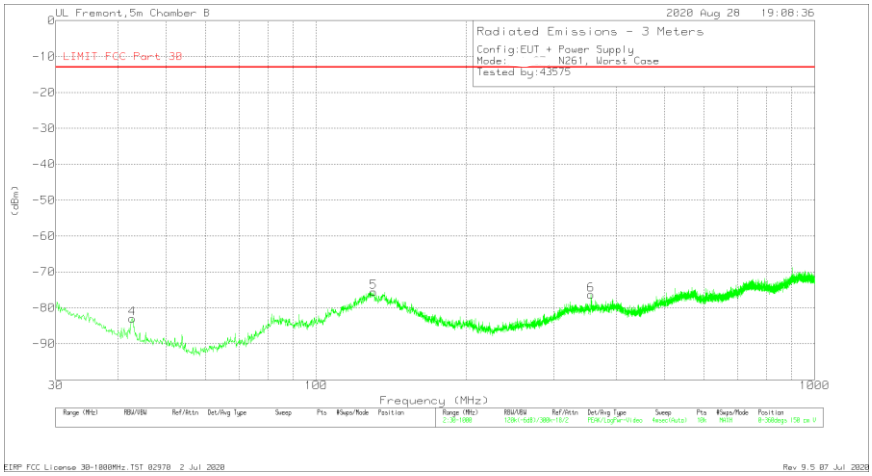
**30MHz-1000MHz – n261, ANT M2**

Horizontal




Vertical




## Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBm) | Det | AF T407 (dB/m) | Amp/Cbl (dB) | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT FCC Part 30 (dBm/MHz) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35.82 | -79 | Pk | 22.8 | -31.4 | 15.2 | -72.4 | -13 | -59.4 | 0-360 | 150 | H |
| 4 | 42.707 | -76.02 | Pk | 17.7 | -31.2 | 6.5 | -83.02 | -13 | -70.02 | 0-360 | 150 | V |
| 5 | 130.298 | -79.83 | Pk | 19.5 | -30.4 | 15.2 | -75.53 | -13 | -62.53 | 0-360 | 150 | V |
| 2 | 256.495 | -79.42 | Pk | 17.5 | -29.8 | 16.2 | -75.52 | -13 | -62.52 | 0-360 | 150 | H |
| 6 | 356.017 | -77.49 | Pk | 20.5 | -29.4 | 10.1 | -76.29 | -13 | -63.29 | 0-360 | 150 | V |
| 3 | 845.479 | -79.91 | Pk | 27.7 | -27.4 | 11.1 | -68.51 | -13 | -55.51 | 0-360 | 150 | H |

Pk - Peak detector
Rev 9.5 07 Jul 2020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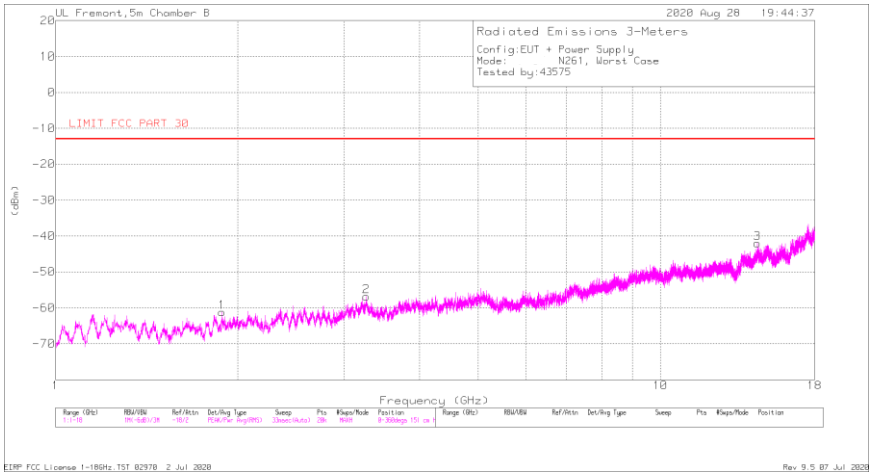
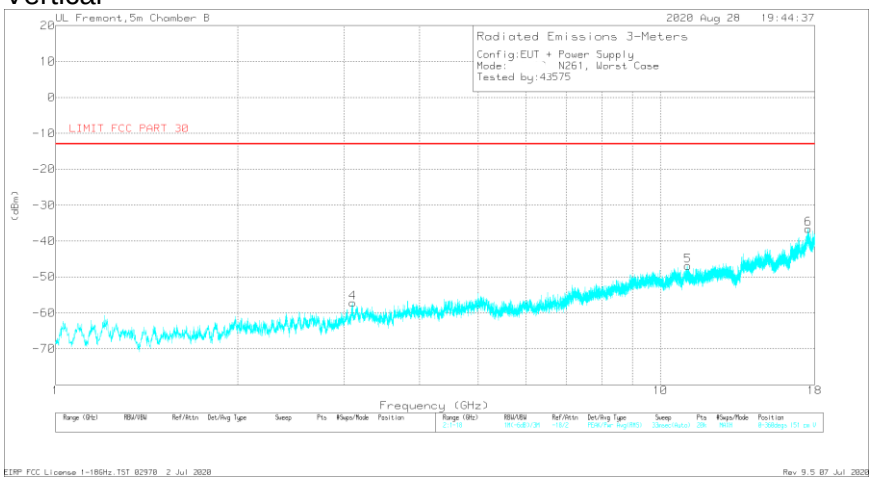
## 8.4.11. RADIATED EMISSIONS 1-18 GHz n261

**1GHz – 18GHz – N261, ANT M1**

Horizontal




Vertical




### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T962 (dB/m) | Amp/Cbl (dB) | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT FCC Part 30 (dBm/MHz) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.88574 | -68.13 | Pk | 26.1 | -30 | 10.8 | -61.23 | -13 | -48.23 | 0-360 | 151 | H |
| 4 | 3.10046 | -69.86 | Pk | 30.5 | -28.4 | 10.6 | -57.16 | -13 | -44.16 | 0-360 | 151 | V |
| 2 | 3.26366 | -70.38 | Pk | 31.4 | -28.3 | 10.4 | -56.88 | -13 | -43.88 | 0-360 | 151 | H |
| 5 | 11.10956 | -74.85 | Pk | 39.2 | -19.7 | 8.4 | -46.95 | -13 | -33.95 | 0-360 | 151 | V |
| 3 | 14.48253 | -73.06 | Pk | 41.5 | -21.3 | 10.9 | -41.96 | -13 | -28.96 | 0-360 | 151 | H |
| 6 | 17.58009 | -75.51 | Pk | 43 | -15.8 | 11.7 | -36.61 | -13 | -23.61 | 0-360 | 151 | V |

Pk - Peak detector
Rev 9.5 07 Jul 2020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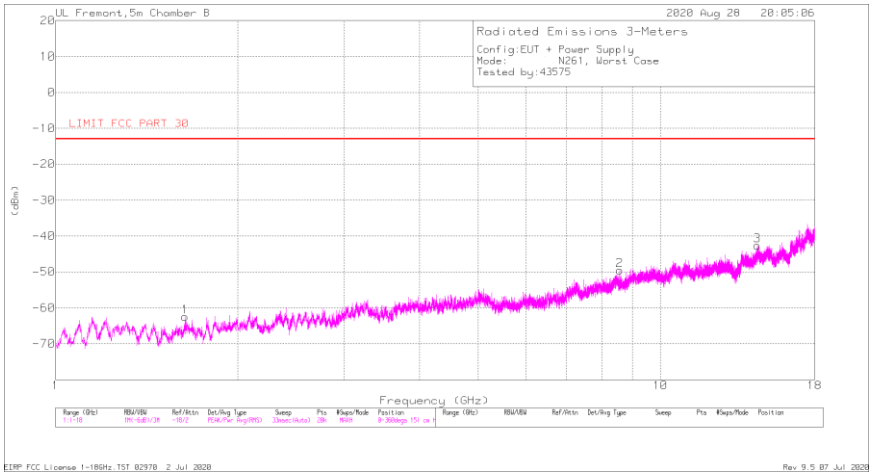
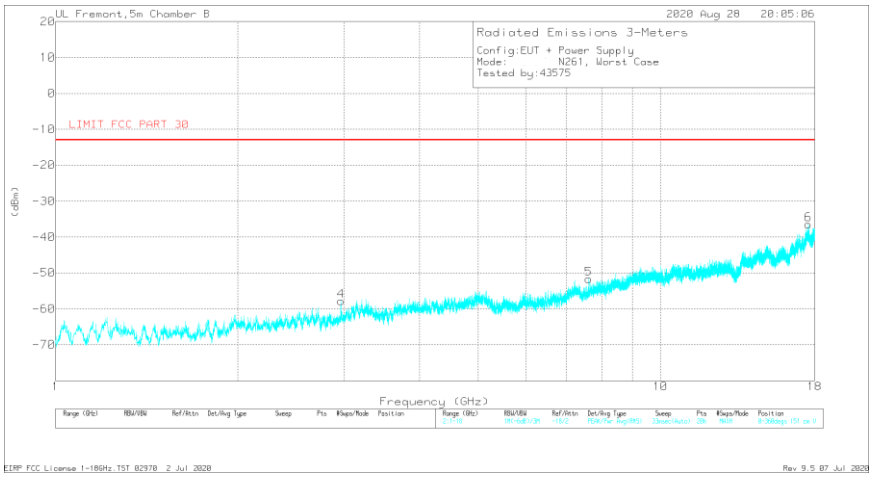
**1GHz – 18GHz – N261, ANT M2**

Horizontal




Vertical




## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T962 (dB/m) | Amp/Cbl (dB) | Amp/Cbl (dB) | Corrected Reading (dBm) | LIMIT FCC Part 30 (dBm/MHz) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.63583 | -67.49 | Pk | 25 | -30.5 | 10.5 | -62.49 | -13 | -49.49 | 0-360 | 151 | H |
| 4 | 2.96445 | -68.41 | Pk | 29.6 | -28.6 | 9.6 | -57.81 | -13 | -44.81 | 0-360 | 151 | V |
| 5 | 7.60738 | -72.48 | Pk | 37 | -23.7 | 7.5 | -51.68 | -13 | -38.68 | 0-360 | 151 | V |
| 2 | 8.57048 | -72.88 | Pk | 37.4 | -22.3 | 8.2 | -49.58 | -13 | -36.58 | 0-360 | 151 | H |
| 3 | 14.46723 | -73.59 | Pk | 41.4 | -21.4 | 11 | -42.59 | -13 | -29.59 | 0-360 | 151 | H |
| 6 | 17.56989 | -74.85 | Pk | 42.9 | -15.9 | 11.4 | -36.45 | -13 | -23.45 | 0-360 | 151 | V |

Pk - Peak detector
Rev 9.5 07 Jul 2020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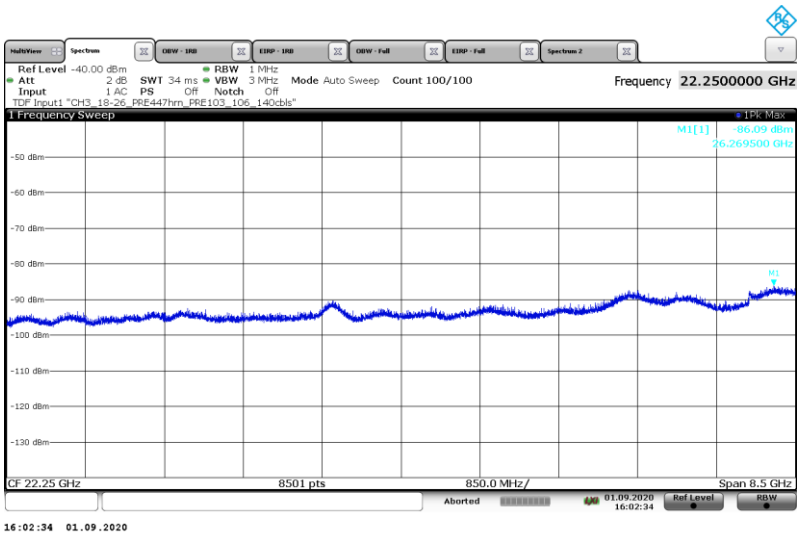
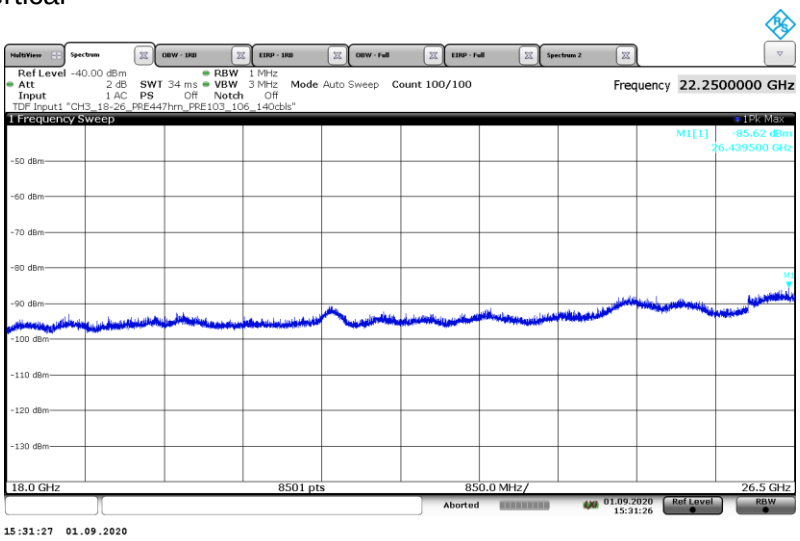
### 8.4.12. RADIATED EMISSIONS 18-26.5 GHz n261

**18-26.5 GHz – N261, ANT M1**
Horizontal




**18-26.5 GHz – N261, ANT M1**
Vertical




No Emission using Peak Detection.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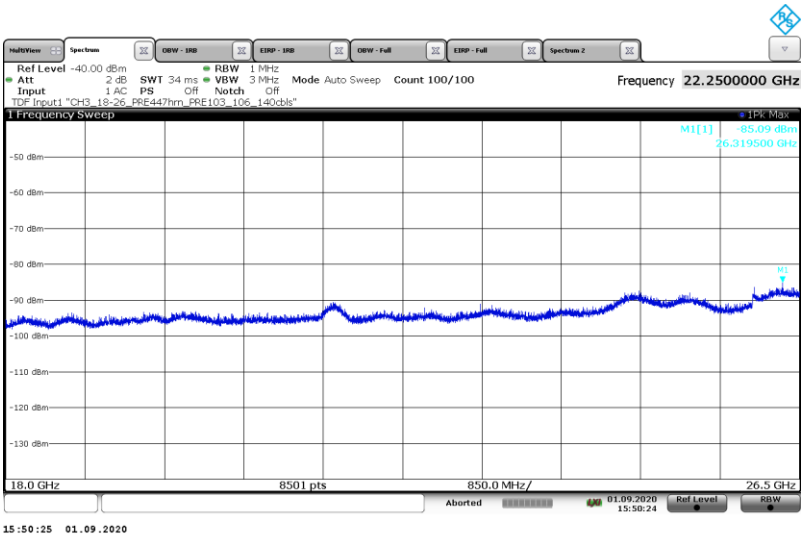
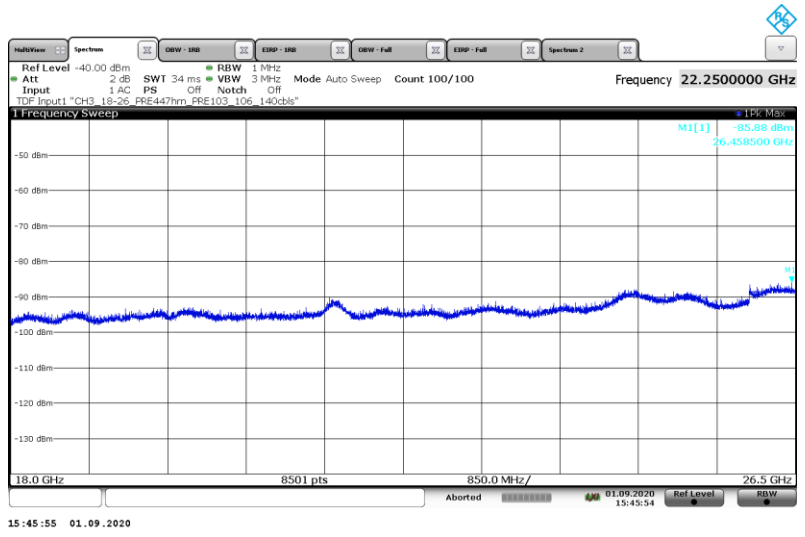
**18-26.5 GHz – N261, ANT M2**
Horizontal




**18-26.5 GHz – N261, ANT M2**
Vertical




No Emission using Peak Detection.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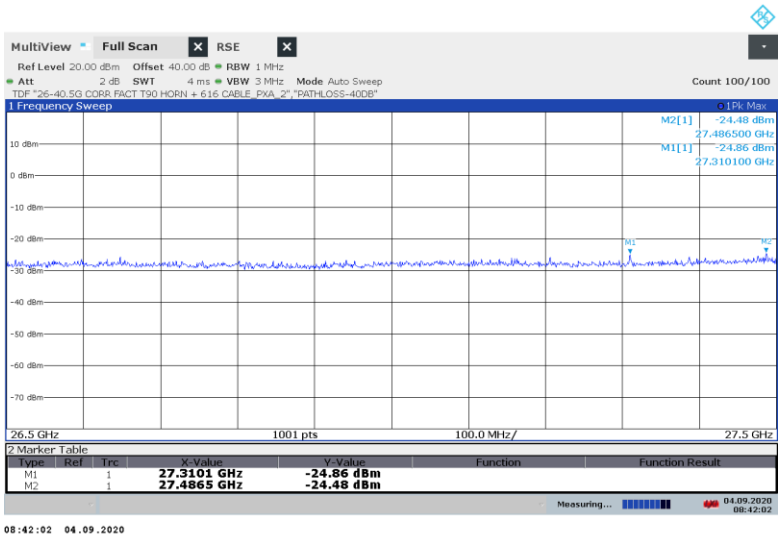
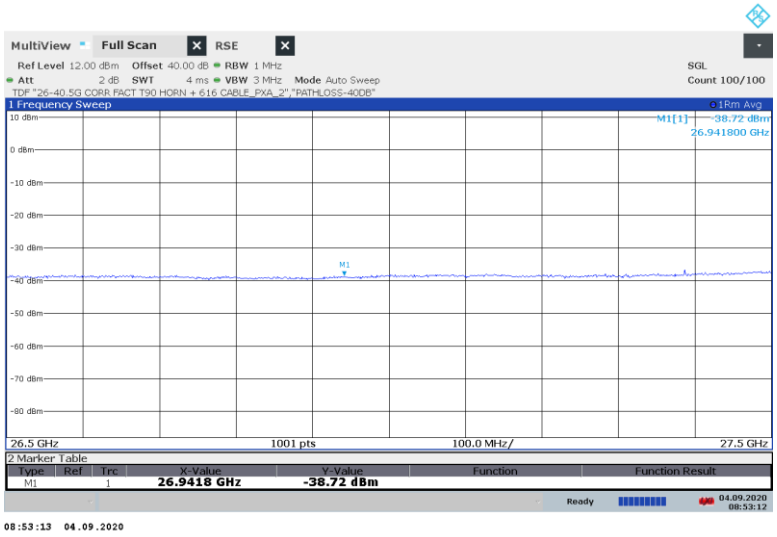
### 8.4.13. RADIATED EMISSIONS 26.5-27.5 GHz n261

Note: 27.5-28.35 GHz covered by Fundamental and BE measurements.

**26.5-27.5 GHz – N261 ANT M1**
Horizontal




**26.5-27.5 GHz – N261 ANT M1**
Vertical




Emission detected using Peak Detection. Avg EIRP was measured.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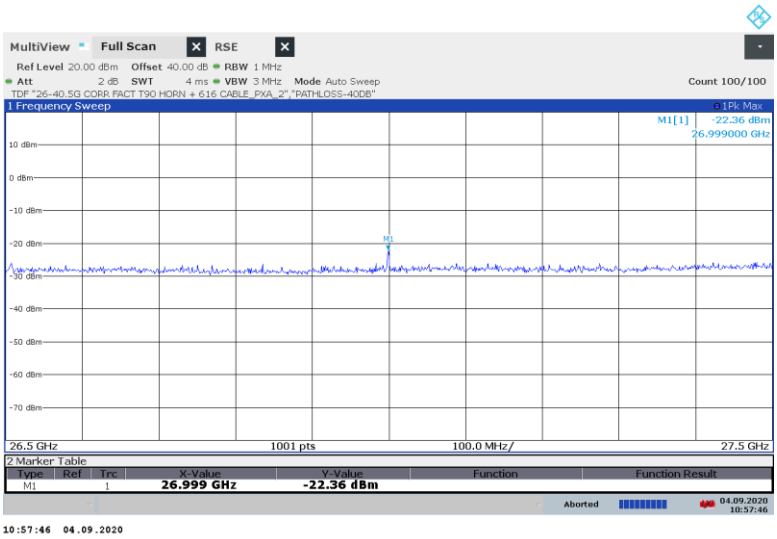
**26.5-27.5 GHz – N261, ANT M2**
Horizontal




**26.5-27.5 GHz – N261, ANT M2**
Vertical

Emission detected using Peak Detection. Avg EIRP was measured.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## 26.5-27.5 GHz n261

### EIRP RESULTS, 1CC

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 27.310 | 3 | H | -34.03 | -13.00 | -21.03 |
| | | | | | | |
| M2 | 26.999 | 3 | H | -28.46 | -13.00 | -15.46 |


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26.5-27.5 GHz – N261, ANT M1, 2CC

Emissions detected using Peak Detection. Avg EIRP was measured on highest emission.

**EIRP RESULTS, 2CC**

Worst case configuration:
SISO-DUAL_QPSK_(50 MHz +50 MHz)_Low CH_RB Offset 1/15 (1RB-M)

Highest emission in this band was investigated.

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 27.4745 | 3 | V | -18.58 | -13 | -5.58 |


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26.5-27.5 GHz – N261, ANT M2, 2CC

Emissions detected using Peak Detection. Avg EIRP and TRP were measured on highest emission.

**EIRP RESULTS, 2CC**

Worst case configuration:
SISO-DUAL_QPSK_(100 MHz + 100 MHz)_Low CH_RB Offset 1/32 (1RB-M)

Highest emission in this band was investigated.

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | Meas. TRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dBm) | (dB) |
| M2 | 27.4496 | 3 | H | -13.19 | - | -13 | -0.19 |
| M2 | 27.4496 | 3 | - | - | -20.18 | -13 | -7.18 |


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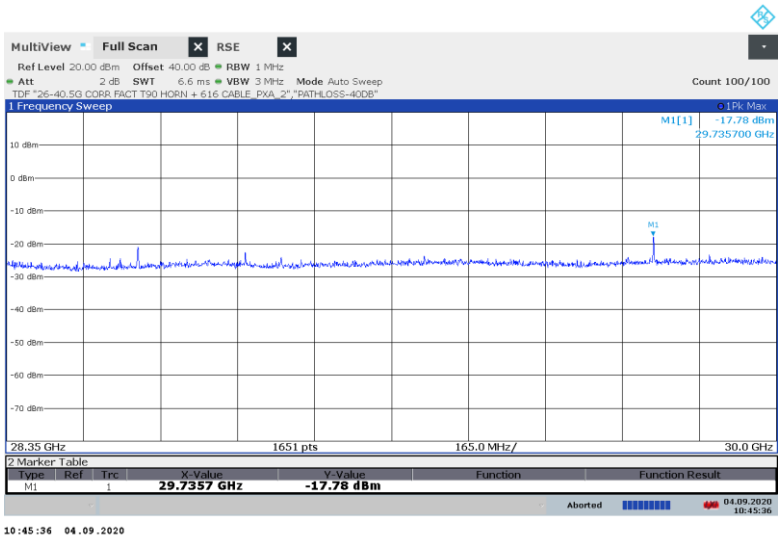
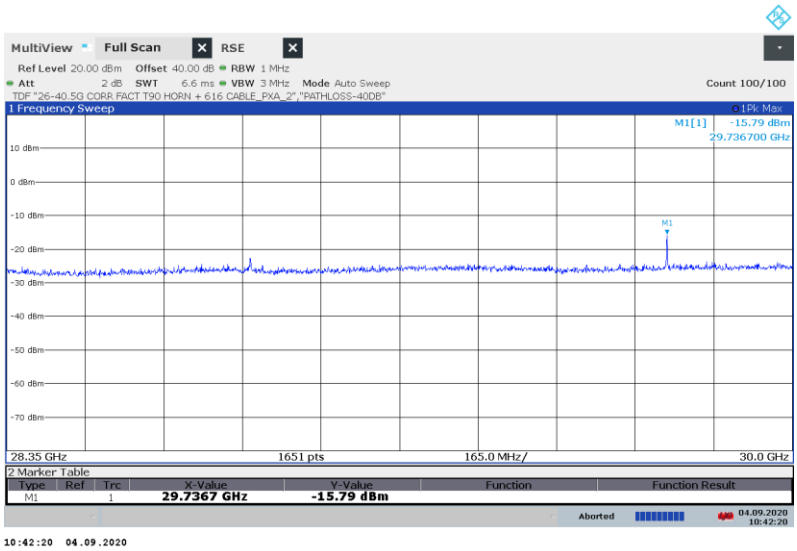
### 8.4.14. RADIATED EMISSIONS 28.35-30 GHz n261

Note: 27.5-28.35 GHz covered by Fundamental and BE measurements.

**28.35-30 GHz – N261, ANT M1**
Horizontal




**28.35-30 GHz – N261, ANT M1**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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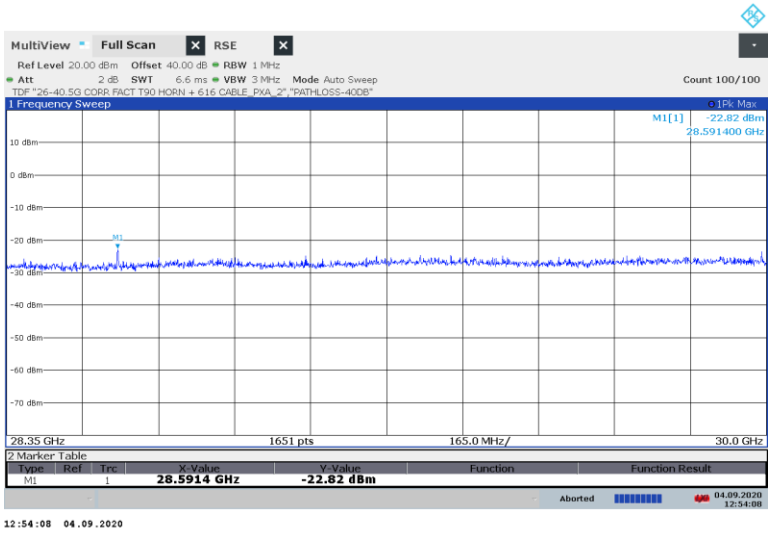
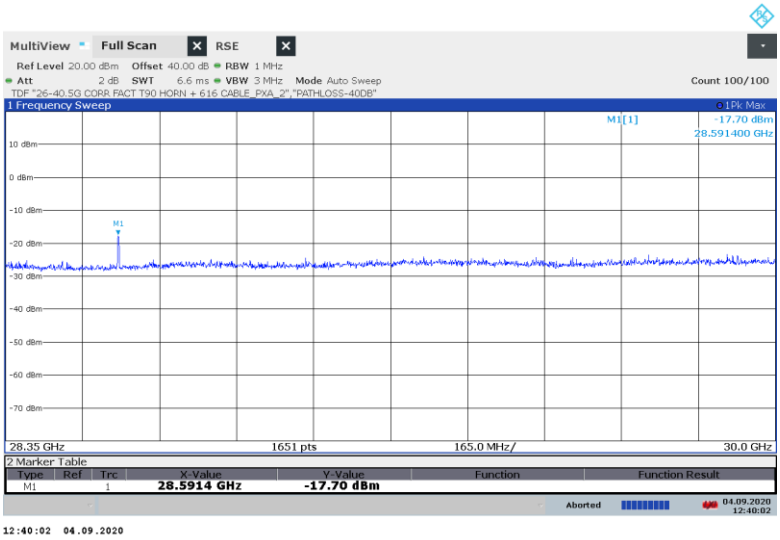
**28.35-30 GHz – N261, ANT M2**
Horizontal




**28.35-30 GHz – N261, ANT M2**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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**28.35-30 GHz n261**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 29.737 | 3 | H | -19.55 | -13.00 | -6.55 |
| M1 | 29.737 | 3 | V | -28.35 | -13.00 | -15.35 |
| | | | | | | |
| M2 | 28.591 | 3 | H | -30.01 | -13.00 | -17.01 |
| M2 | 28.591 | 3 | V | -22.00 | -13.00 | -9.00 |


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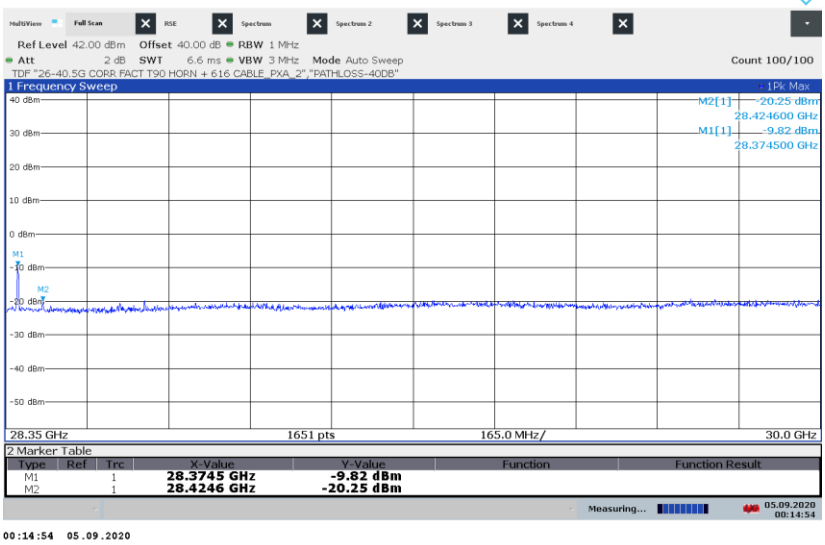
**28.35-30 GHz – N261, ANT M1, 2CC**




Emissions detected using Peak Detection. Avg EIRP was measured on highest emission.

**EIRP RESULTS, 2CC**

Worst case configuration:
SISO-DUAL_QPSK_(50 MHz +50 MHz)_High CH_RB Offset 1/15 (1RB-M)

Highest emission in this band was investigated.

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 28.3741 | 3 | H | -20.19 | -13 | -7.19 |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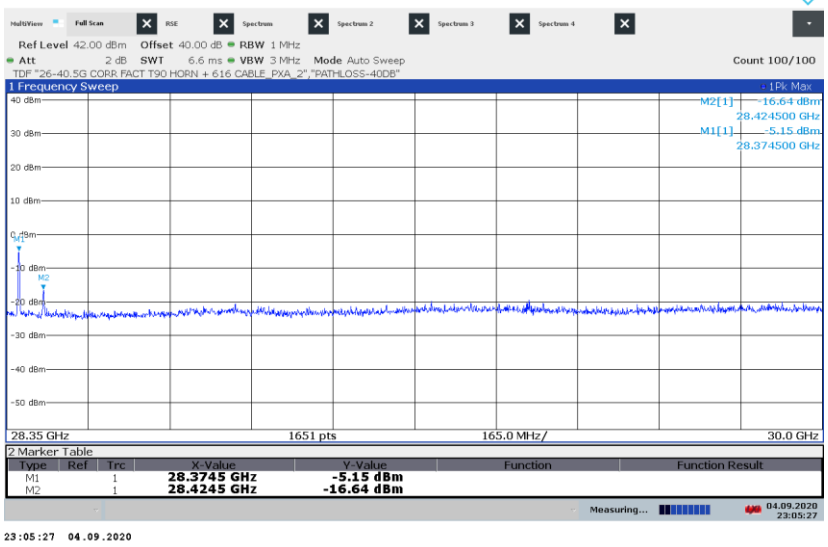
**28.35-30 GHz – N261, ANT M2, 2CC**




Emissions detected using Peak Detection. Avg EIRP and TRP were measured on highest emission.

## EIRP RESULTS, 2CC

Worst case configuration:
SISO-DUAL_QPSK_(50 MHz + 50 MHz)_High CH_RB Offset 1/15 (1RB-M)

Highest emission in this band was investigated.

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | Meas. TRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dBm) | (dB) |
| M2 | 28.3741 | 3 | H | -13.88 | - | -13 | -0.88 |
| M2 | 28.3741 | 3 | - | - | -20.36 | -13 | -7.36 |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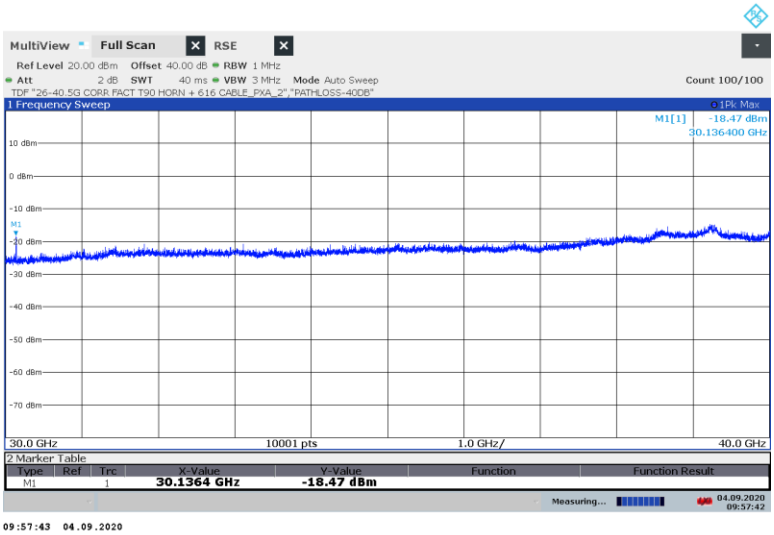
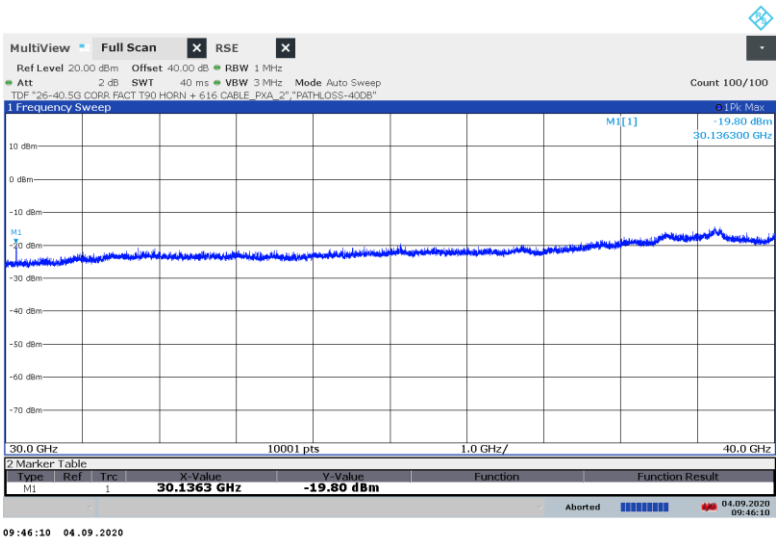
## 8.4.15. RADIATED EMISSIONS 30-40 GHz n261

**30-40 GHz – N261, ANT M1**
Horizontal




**30-40 GHz – N261, ANT M1**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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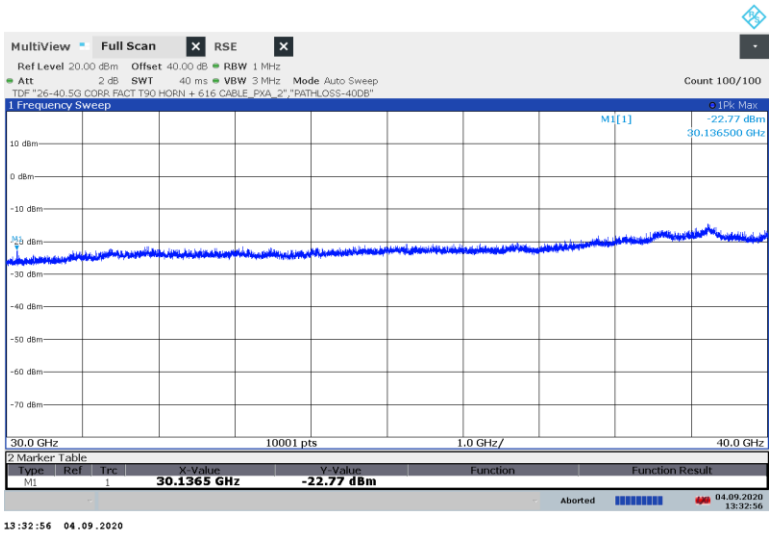
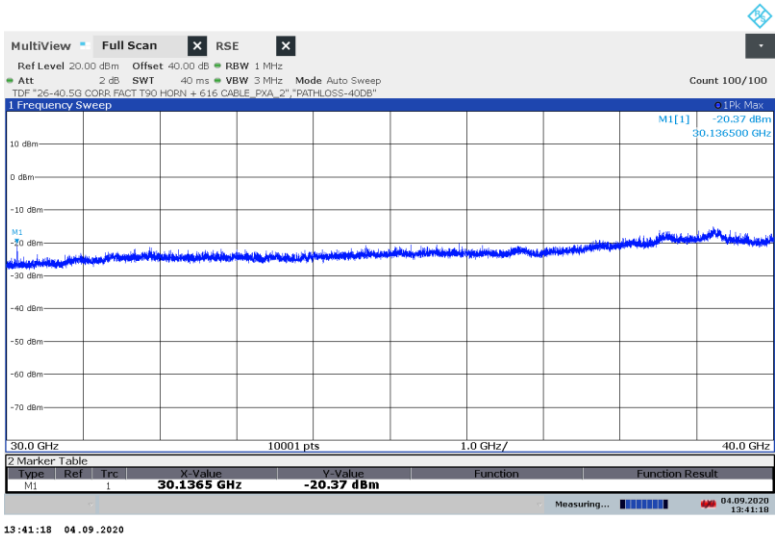
**30-40 GHz – N261, ANT M2**
Horizontal




**30-40 GHz – N261, ANT M2**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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**30-40 GHz n261**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 30.137 | 3 | H | -24.05 | -13 | -11.05 |
| M1 | 30.137 | 3 | V | -19.56 | -13 | -6.56 |
| | | | | | | |
| M2 | 30.137 | 3 | H | -24.35 | -13 | -11.35 |
| M2 | 30.137 | 3 | V | -27.87 | -13 | -14.87 |


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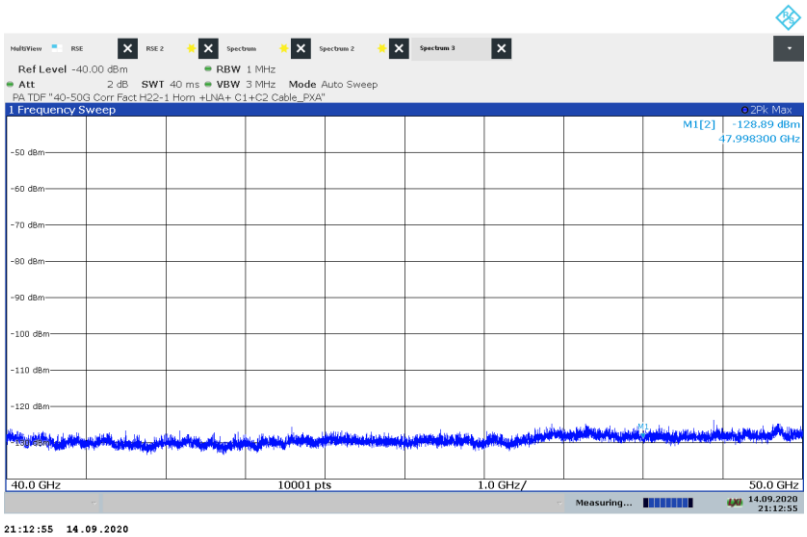
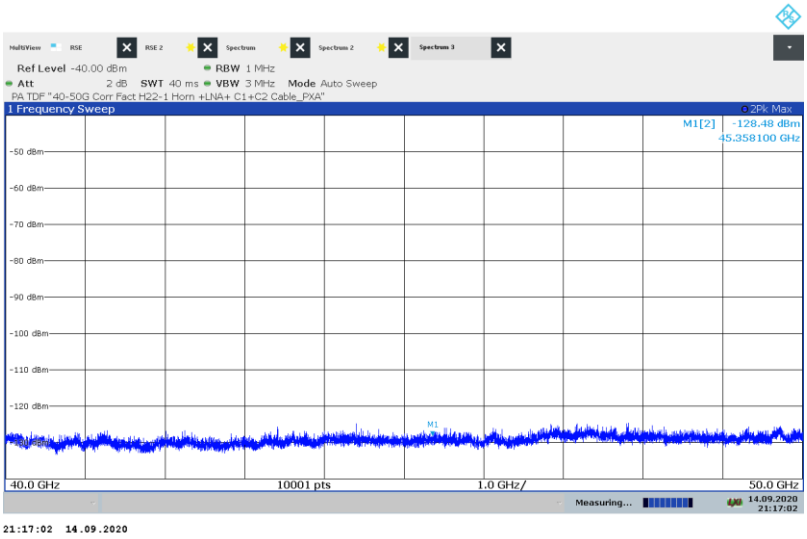
### 8.4.16. RADIATED EMISSIONS 40-50 GHz n261

**40-50 GHz – n261, ANT M1**
Horizontal




**40-50 GHz – n261, ANT M1**
Vertical




No Emission using Peak Detection.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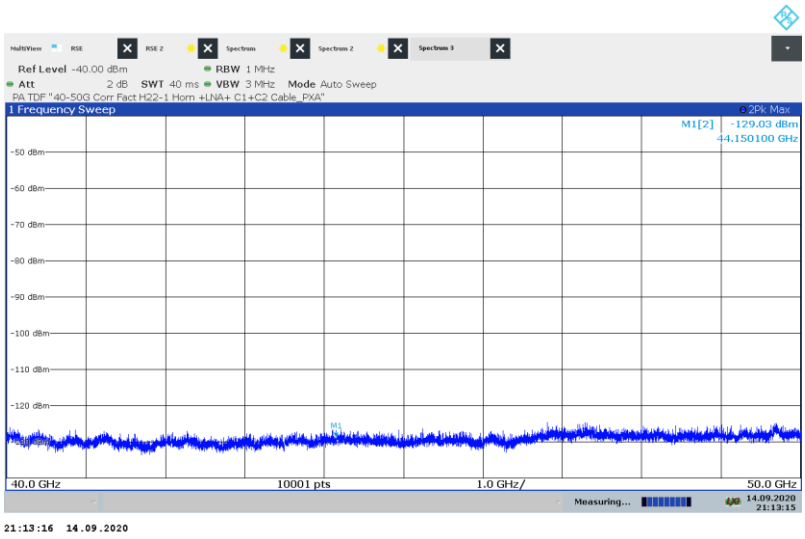
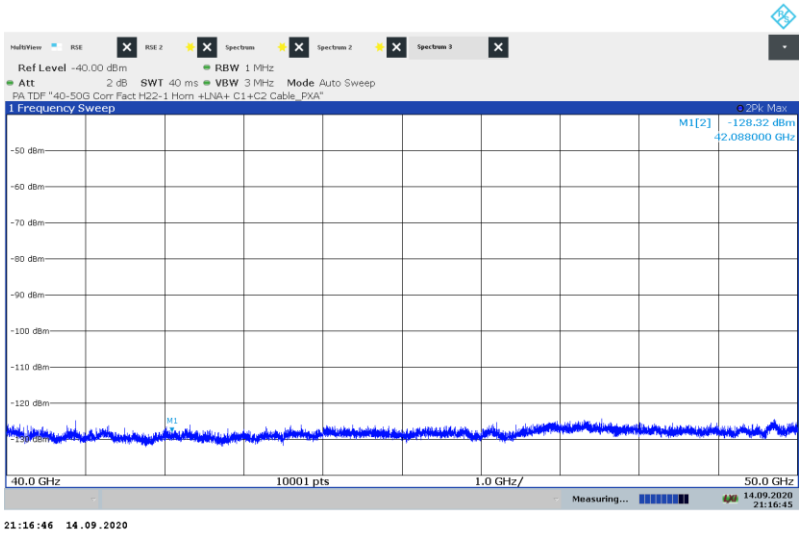
**40-50 GHz – n261, ANT M2**
Horizontal




**40-50 GHz – n261, ANT M2**
Vertical




No Emission using Peak Detection.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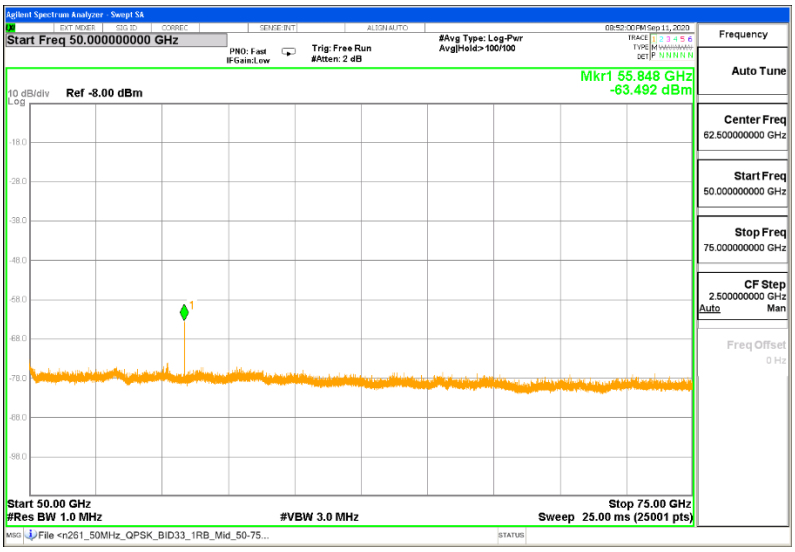
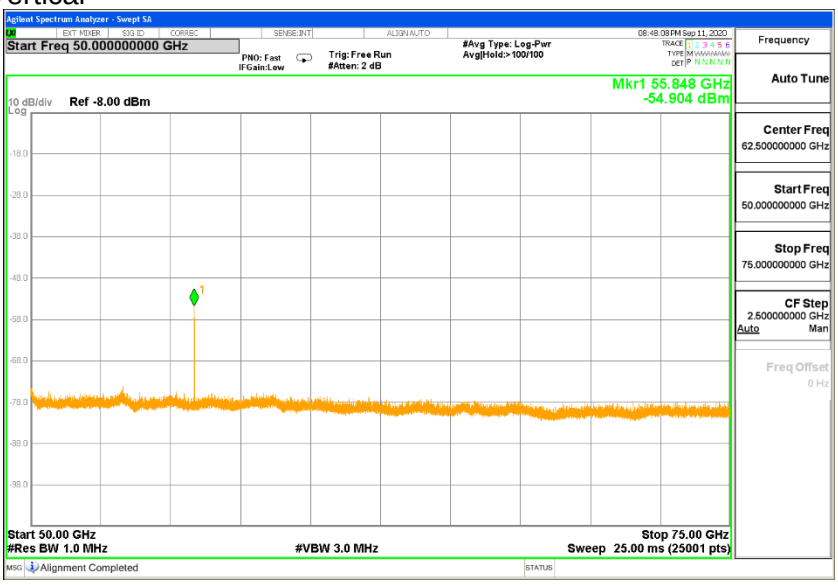
## 8.4.17. RADIATED EMISSIONS 50-75 GHz n261

**50-75 GHz – N261, ANT M1**
Horizontal




**50-75 GHz – N261, ANT M1**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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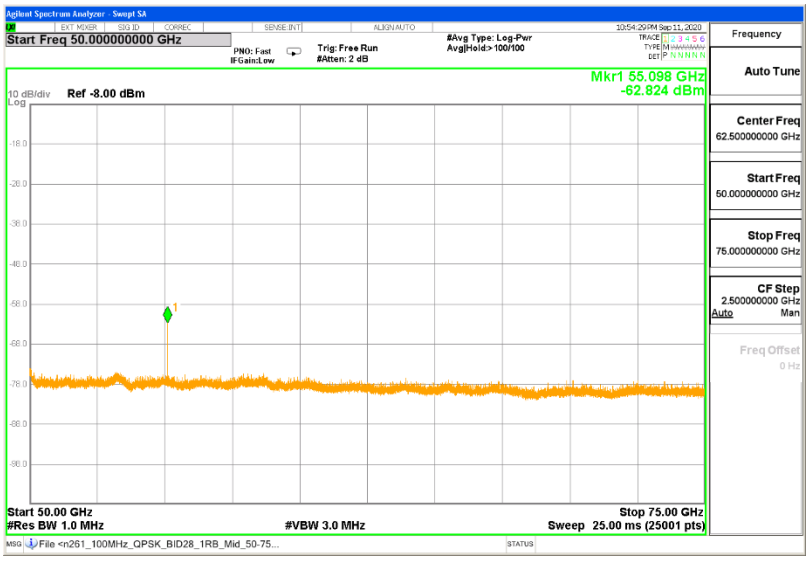
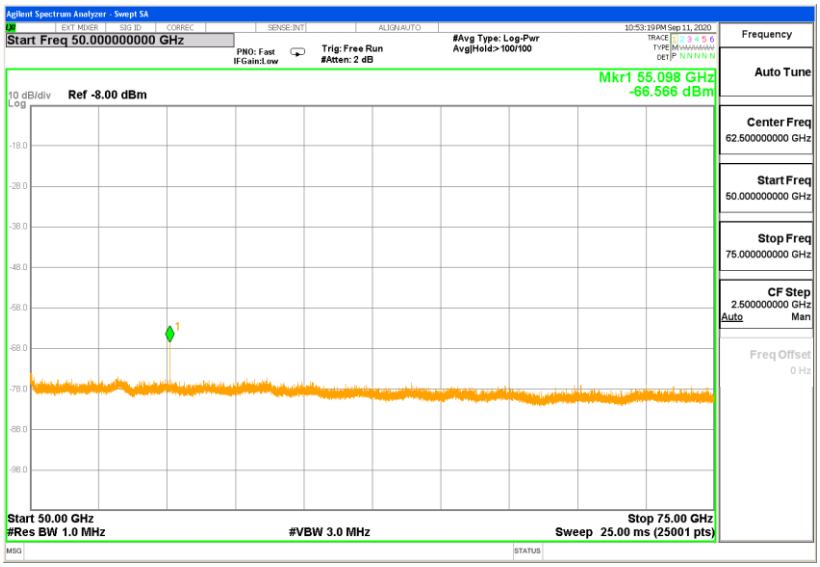
**50-75 GHz – N261, ANT M2**
Horizontal




**50-75 GHz – N261, ANT M2**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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**50-75 GHz n261**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 55.848 | 1.5 | V | -46.88 | -13 | -33.88 |
| M1 | 55.848 | 1.5 | H | -32.88 | -13 | -19.88 |
| | | | | | | |
| M2 | 55.098 | 1.5 | H | -42.18 | -13 | -29.18 |
| M2 | 55.098 | 1.5 | V | -47.67 | -13 | -34.67 |


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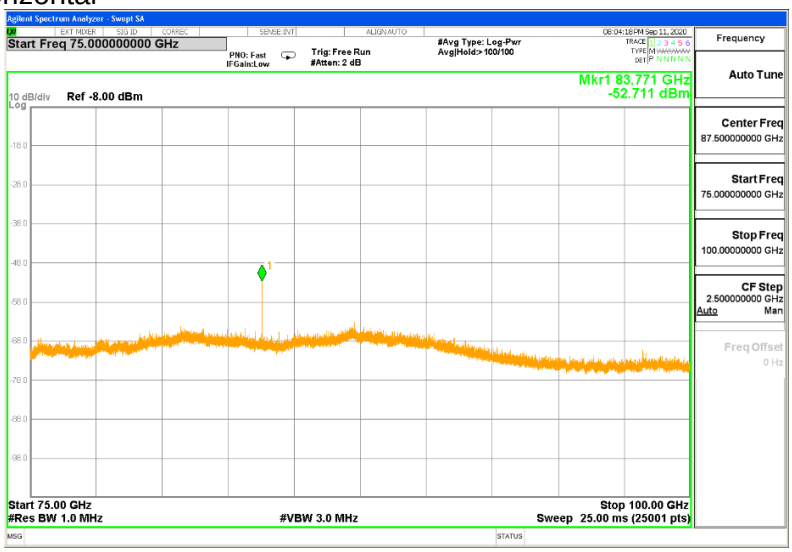
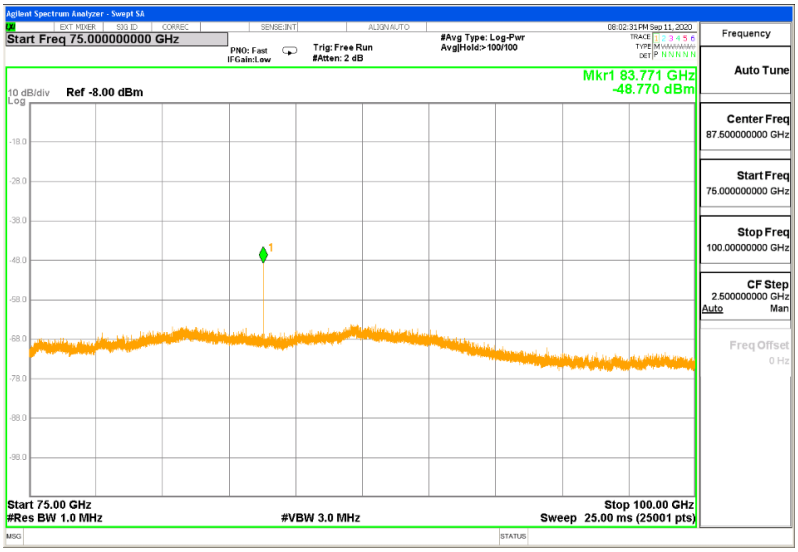
## 8.4.18. RADIATED EMISSIONS 75-100 GHz n261

**75-100 GHz – N261, ANT M1**
Horizontal




**75-100 GHz – N261, ANT M1**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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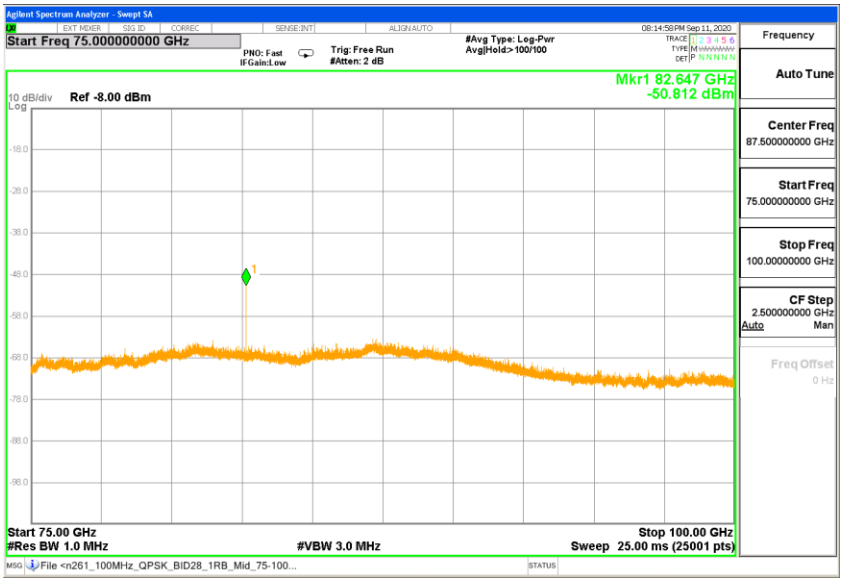
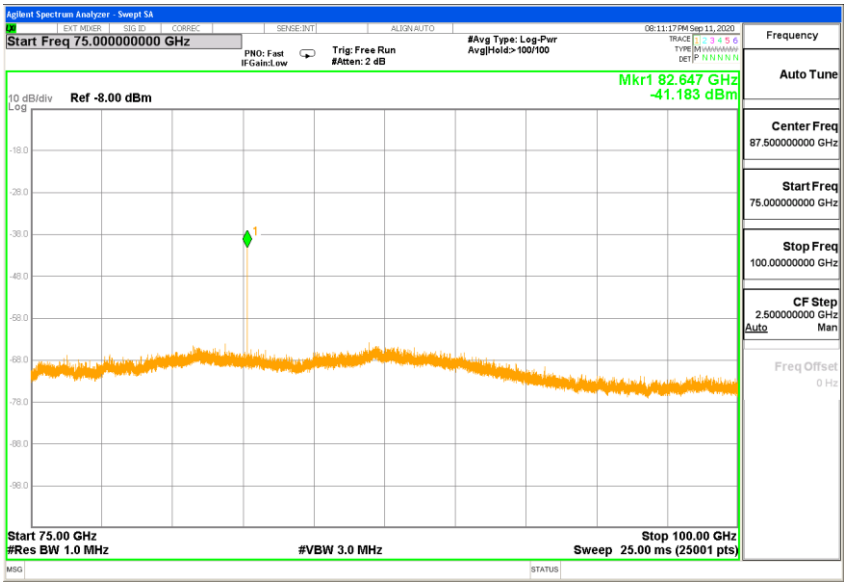
**75-100 GHz – N261, ANT M2**
Horizontal




**75-100 GHz – N261, ANT M2**
Vertical




Emissions detected using Peak Detection. Avg EIRP was measured.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**75-100 GHz n261**

EIRP Results

| Antenna | Freq. | Meas. Distance | Rx Ant. Polarity | Corrected Avg EIRP | TRP Limit | Margin |
|---|---|---|---|---|---|---|
| | (GHz) | (m) | H/V | (dBm) | (dBm) | (dB) |
| M1 | 83.772 | 1 | H | -36.62 | -13 | -23.62 |
| M1 | 83.772 | 1 | V | -38.28 | -13 | -25.28 |
| | | | | | | |
| M2 | 82.648 | 1 | H | -36.50 | -13 | -23.50 |
| M2 | 82.648 | 1 | V | -21.40 | -13 | -8.40 |


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## 8.5. FREQUENCY STABILITY

**RULE PART(S)**

FCC: §2.1055

**LIMIT**

For reporting purposes only

**TEST PROCEDURES**

KDB 842590 D01 Upper Microwave Flexible Use Service v01 Section 4.5
ANSI C63.26-2015 Section 5.6

**Test procedures for temperature variation:**

a. Position the EUT in temperature/humidity chamber with power off.
b. Set chamber temperature to -30°C and stabilize the EUT for at least 30 minutes.
c. Record maximum change in frequency within one minute after powering the EUT.
d. Increase chamber temperature at 10°C intervals from -30°C to 50°C. Record maximum change in frequency at each temperature.
e. A period of at least 30 minutes is provided to allow stabilization of the equipment at each temperature level.

- Temp. = −30°C to +50°C

**Test procedures for voltage variation:**

a. Position the EUT in temperature/humidity chamber with power off.
b. Set chamber temperature to 20°C.
c. Record maximum frequency change within one minute after powering the EUT.
d. The primary supply voltage is varied from 85% to 115% of the nominal value for hand-carried, battery-powered equipment. primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

- Voltage = (85% - 115%)
  Nominal: 3.8 VDC; Low: 3.23 VDC; High: 4.37 VDC.

The measurements were performed with the CW signal of the center frequency of n260 on antenna M1 and n261 bands on antenna M2, to represent Chipset 2 and Chipset 1 respectively.

**RESULTS**

See the following page.

**TESTED BY:**

Employee IDs: 19459 & 19437


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## RESULTS

| | | | Antenna M1 _n260 | |
|---|---|---|---|---|
| Input Voltage | Environment | Freqency | Frequency | Delta |
| | Temperature (ºC) | (Hz) | (MHz) | (kHz) |
| *Normal* | 50 | 38504854644 | 38504.8546436 | -25.022 |
| *Normal* | 40 | 38504809279 | 38504.8092792 | -70.386 |
| *Normal* | 30 | 38504798123 | 38504.7981233 | -81.542 |
| ***Normal*** | ***20*** | ***38504879666*** | 38504.8796656 | ***Reference*** |
| *Normal* | 10 | 38504929692 | 38504.9296916 | 50.026 |
| *Normal* | 0 | 38505068452 | 38505.0684517 | 188.786 |
| *Normal* | -10 | 38505111609 | 38505.1116089 | 231.943 |
| *Normal* | -20 | 38505173526 | 38505.1735256 | 293.860 |
| *Normal* | -30 | 38505129692 | 38505.1296920 | 250.026 |
| 115% | 20 | 38504822817 | 38504.8228168 | -56.849 |
| 85% | 20 | 38504819659 | 38504.8196586 | -60.007 |

| | | | Antenna M2 _n261 | |
|---|---|---|---|---|
| Input Voltage | Environment | Freqency | Frequency | Delta |
| | Temperature (ºC) | (Hz) | (MHz) | (kHz) |
| *Normal* | 50 | 27929923354 | 27929.9233540 | 21.086 |
| *Normal* | 40 | 27929836350 | 27929.8363500 | -65.918 |
| *Normal* | 30 | 27929842621 | 27929.8426210 | -59.647 |
| ***Normal*** | ***20*** | ***27929902268*** | 27929.9022680 | ***Reference*** |
| *Normal* | 10 | 27929994230 | 27929.9942300 | 91.962 |
| *Normal* | 0 | 27930047780 | 27930.0477800 | 145.512 |
| *Normal* | -10 | 27930103314 | 27930.1033140 | 201.046 |
| *Normal* | -20 | 27930111959 | 27930.1119590 | 209.691 |
| *Normal* | -30 | 27930062529 | 27930.0625290 | 160.261 |
| 115% | 20 | 27929910769 | 27929.9107690 | 8.501 |
| 85% | 20 | 27929897462 | 27929.8974620 | -4.806 |


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# 9. SETUP PHOTOS

Please refer to 13179110-EP20V1for setup photos

# END OF REPORT


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# APPENDIX A

## 1. 50-75 GHz VDI WR15.0SAX

**Virginia Diodes, Inc**
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

***Certificate of Conformance***

To: UL LLC
47173 Benicia Street
Fremont, CA 94538
United States

From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

**Packing List No:** 201834 **Today's Date:** 06/02/20
**Shipping Date:** 06/02/20 **PO Number:** 7862016682

| Quantity Shipped | Unit | Description | Order-Job Number |
|---|---|---|---|
| 1 | EA | VDIWR15.0SAX<br>WR15SAX / SN: SAX 620 | 20141A-01 |

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc

Page 1 of 1


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## 2. 75-110 GHz VDI WR10.0SAX

**Virginia Diodes, Inc**
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

***Certificate of Conformance***

To: UL Verification Services Inc.
47173 Benicia Street
Fremont, CA 94538
United States

From: Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

**Packing List No:** 201833 **Today's Date:** 06/03/20
**Shipping Date:** 06/02/20 **PO Number:** 7862016682

| Quantity Shipped | Unit | Description | Order-Job Number |
|---|---|---|---|
| 1 | EA | VDIWR10.0SAX<br>WR10SAX - Spectrum Analyzer Extension Module; SN: SAX 649. | 20141C-01 |

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc

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# 3. 110-170 GHz VDI WR6.5SAX

**Virginia Diodes, Inc**
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

***Certificate of Conformance***

**To:** UL LLC
47173 Benicia Street
Fremont, CA 94538
United States

**From:** Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

**Packing List No:** 201155 **Today's Date:** 04/07/20
**Shipping Date:** 04/07/20 **PO Number:** 7862016203

| Quantity Shipped | Unit | Description | Order-Job Number |
|---|---|---|---|
| 1 | EA | VDIWR6.5SAX<br>WR6.5SAX / SN: SAX 624 | 20075D-01 |

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc

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# 4. 170-260 GHz VDI WR4.3SAX

**Virginia Diodes, Inc**
979 2nd St. SE
Suite 309
Charlottesville, VA 22902
Phone: 434-297-3257
Fax: 434-297-3258

***Certificate of Conformance***

**To:** UL LLC
47173 Benicia Street
Fremont, CA 94538
United States

**From:** Virginia Diodes, Inc
979 2nd St. SE
Suite 309
Charlottesville, VA 22902

**Packing List No:** 201728
**Shipping Date:** 05/22/20
**Today's Date:** 05/28/20
**PO Number:** 7862016682

| Quantity Shipped | Unit | Description | Order-Job Number |
|---|---|---|---|
| 1 | EA | VDIWR4.3SAX<br>WR15SAX / SN: SAX 651 | 20141E-01 |

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

Authorized Signature
Virginia Diodes, Inc

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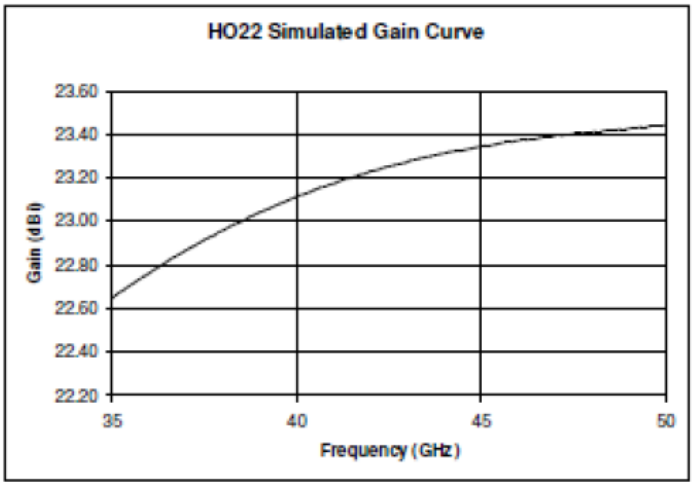
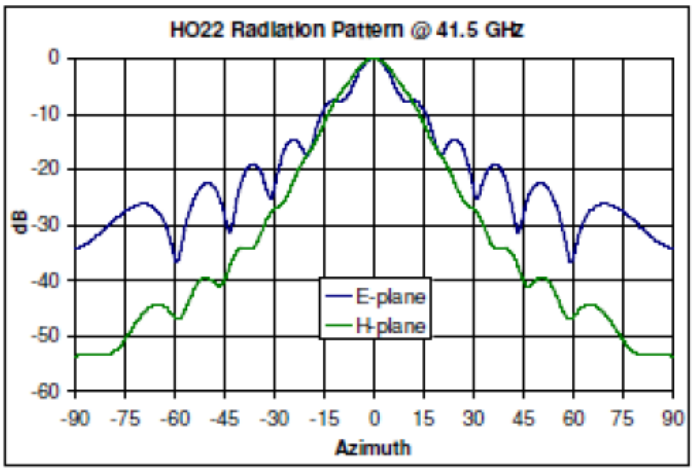
# 5. 35-50 GHz CMI HO22R HORN ANTENNA

custom microwave inc.
24 Boston Court
Longmont, CO 80501
303 651-0707 (P)
303 651-0706 (F)
www.customimicrowave.com





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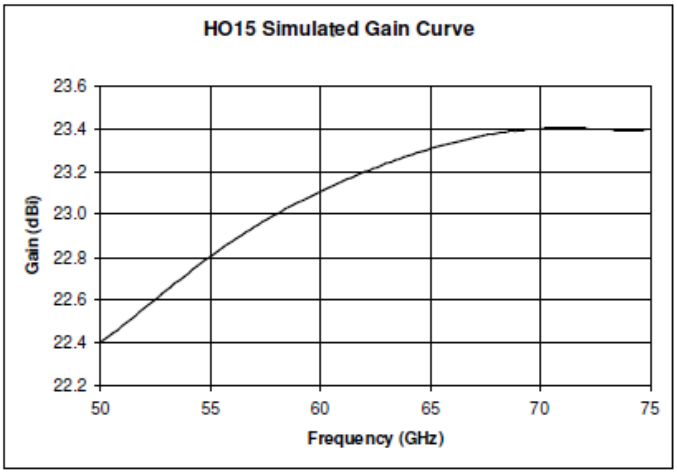
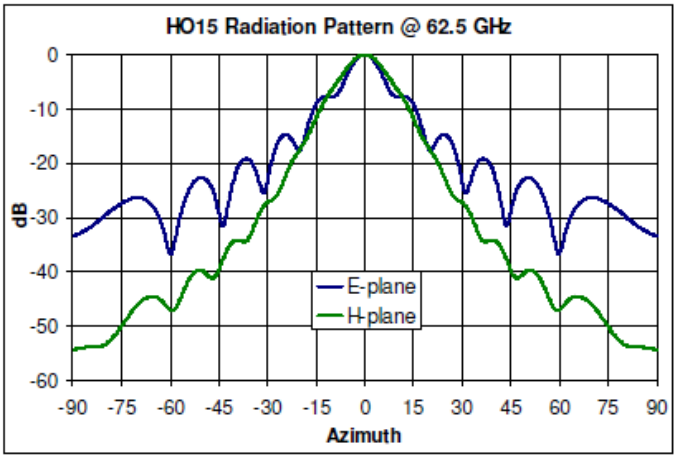
# 6. 50-75 GHz CMI HO15R HORN ANTENNA

custom microwave inc.
24 Boston Court
Longmont, CO 80501
303 651-0707(P)
303 651-0706(F)
www.custommicrowave.com





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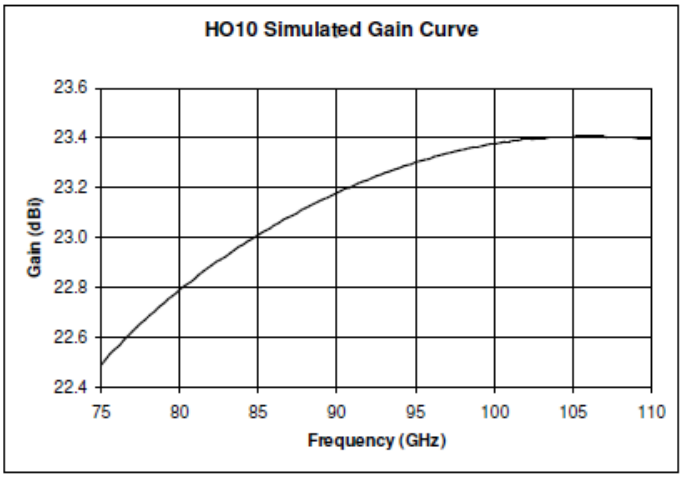
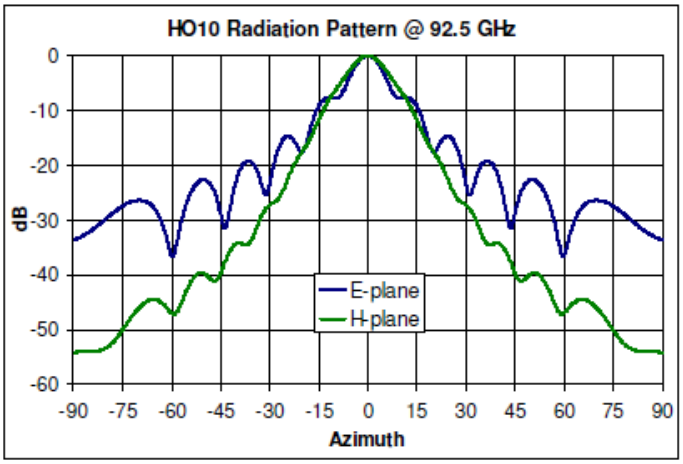
# 7. 75-110 GHz CMI HO10R HORN ANTENNA

custom microwave inc.
24 Boston Court
Longmont, CO 80501
303 651-0707(P)
303 651-0706(F)
www.custommicrowave.com





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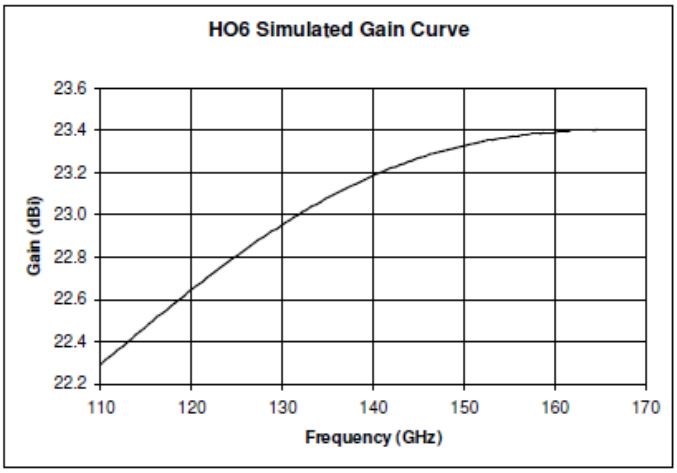
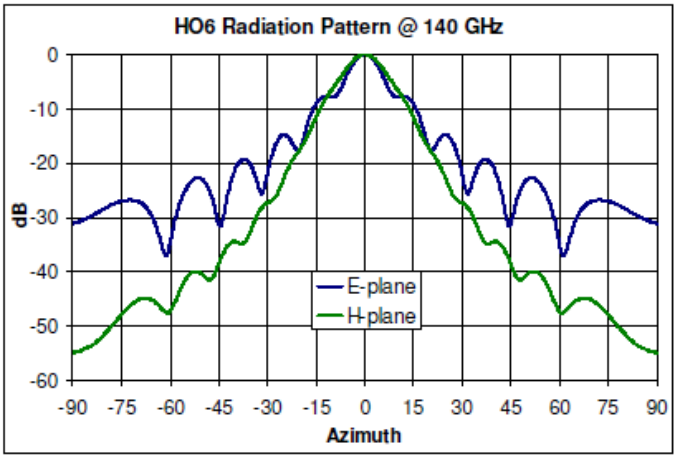
# 8. 110-170 GHz CMI HO6R HORN ANTENNA

custom microwave inc.
24 Boston Court
Longmont, CO 80501
303 651-0707(P)
303 651-0706(F)
www.custommicrowave.com





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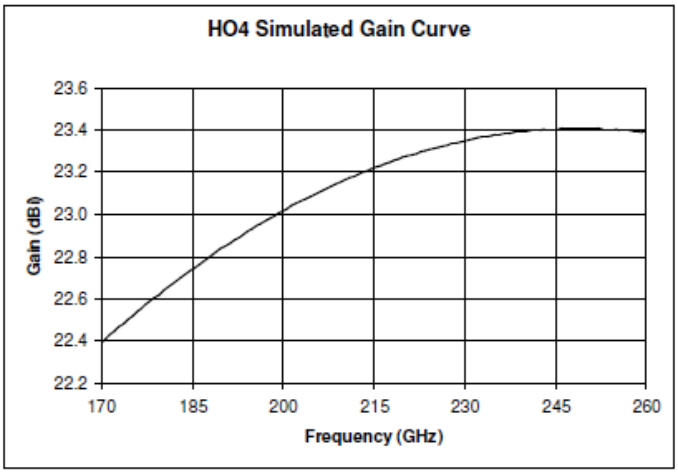
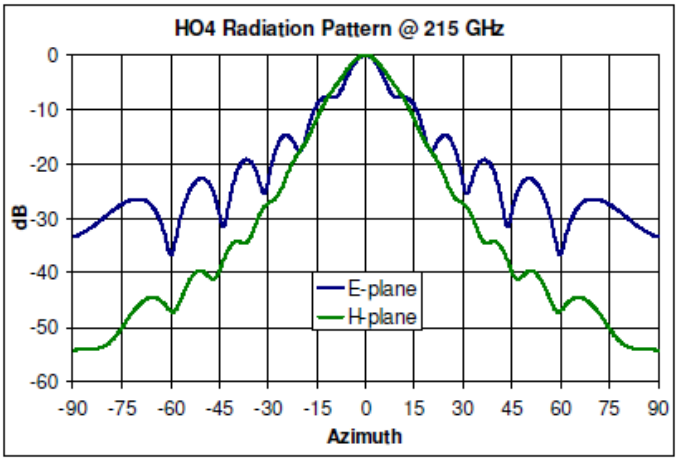
# 9. 170-260 GHz CMI HO4R HORN ANTENNA

24 Boston Court
Longmont, CO 80501
303 651-0707(P)
303 651-0706(F)
www.custommicrowave.com





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