

## 10. RADIATED TEST RESULTS

### 10.1. LIMITS AND PROCEDURE

#### LIMITS

FCC §15.205 and §15.209

RSS-GEN, Section 8.9 and 8.10.

| Frequency Range (MHz) | Field Strength Limit (uV/m) at 3 m | Field Strength Limit (dBuV/m) at 3 m |
|-----------------------|------------------------------------|--------------------------------------|
| 0.009-0.490           | 2400/F(kHz) @ 300 m                | -                                    |
| 0.490-1.705           | 24000/F(kHz) @ 30 m                | -                                    |
| 1.705 - 30            | 30 @ 30m                           | -                                    |
| 30 - 88               | 100                                | 40                                   |
| 88 - 216              | 150                                | 43.5                                 |
| 216 - 960             | 200                                | 46                                   |
| Above 960             | 500                                | 54                                   |

#### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

**RESULTS:**

High Power Beamforming HDR 4Mbps mode is set to maximum power per chain to cover both SISO and MIMO modes to complies with radiated spurious emissions limits in the restricted bands between 1GHz and 18GHz low/mid/high channel (except the band edge).

Spurious emissions for frequencies below 1GHz and above 18GHz were limited to the middle channel as preliminary testing indicated that changing the operating frequency had no significant impact on the emissions in those frequency bands.

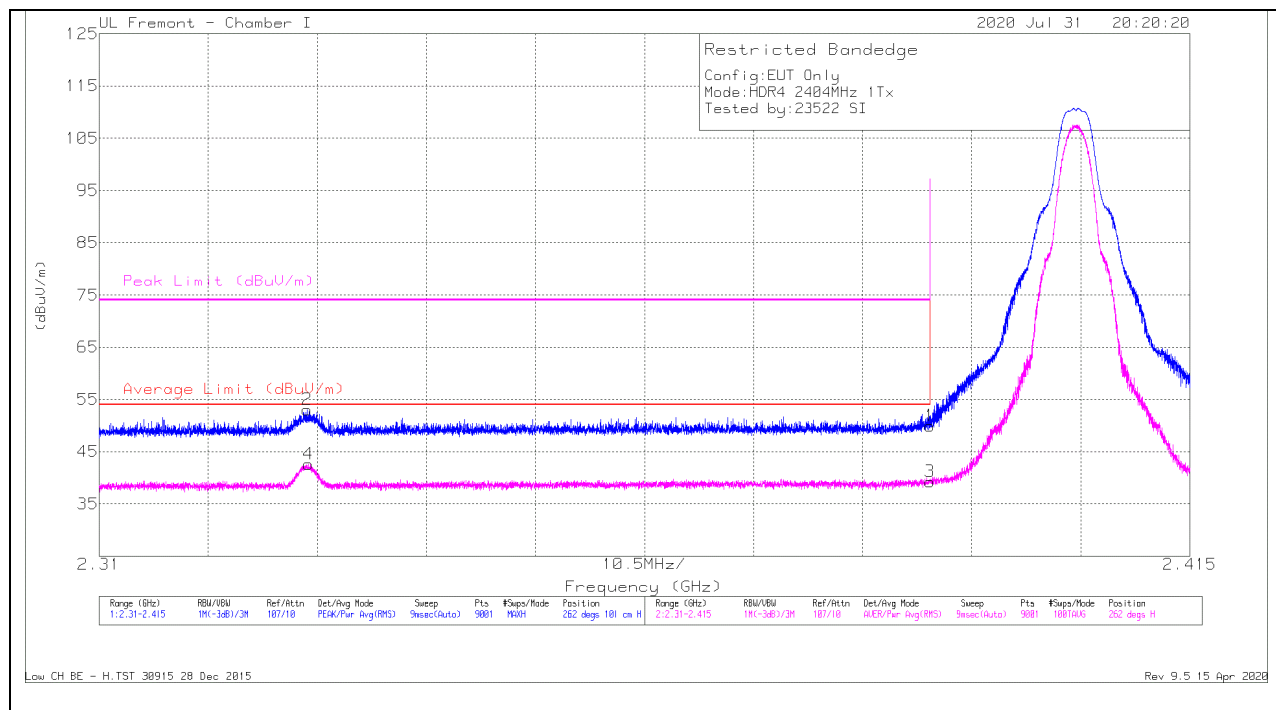
## 10.2. TRANSMITTER ABOVE 1 GHz

### 10.2.1. HIGH POWER HDR (HDR4)

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.31                | Pk  | 31.9           | -17.3                  | 49.91                      | -                      | -           | 74                  | -24.09         | 262            | 101         | H        |
| 2      | * 2.33004       | 38.74                | Pk  | 31.5           | -17.2                  | 53.04                      | -                      | -           | 74                  | -20.96         | 262            | 101         | H        |
| 3      | * 2.38999       | 24.61                | RMS | 31.9           | -17.3                  | 39.21                      | 54                     | -14.79      | -                   | -              | 262            | 101         | H        |
| 4      | * 2.33013       | 28.28                | RMS | 31.5           | -17.2                  | 42.58                      | 54                     | -11.42      | -                   | -              | 262            | 101         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

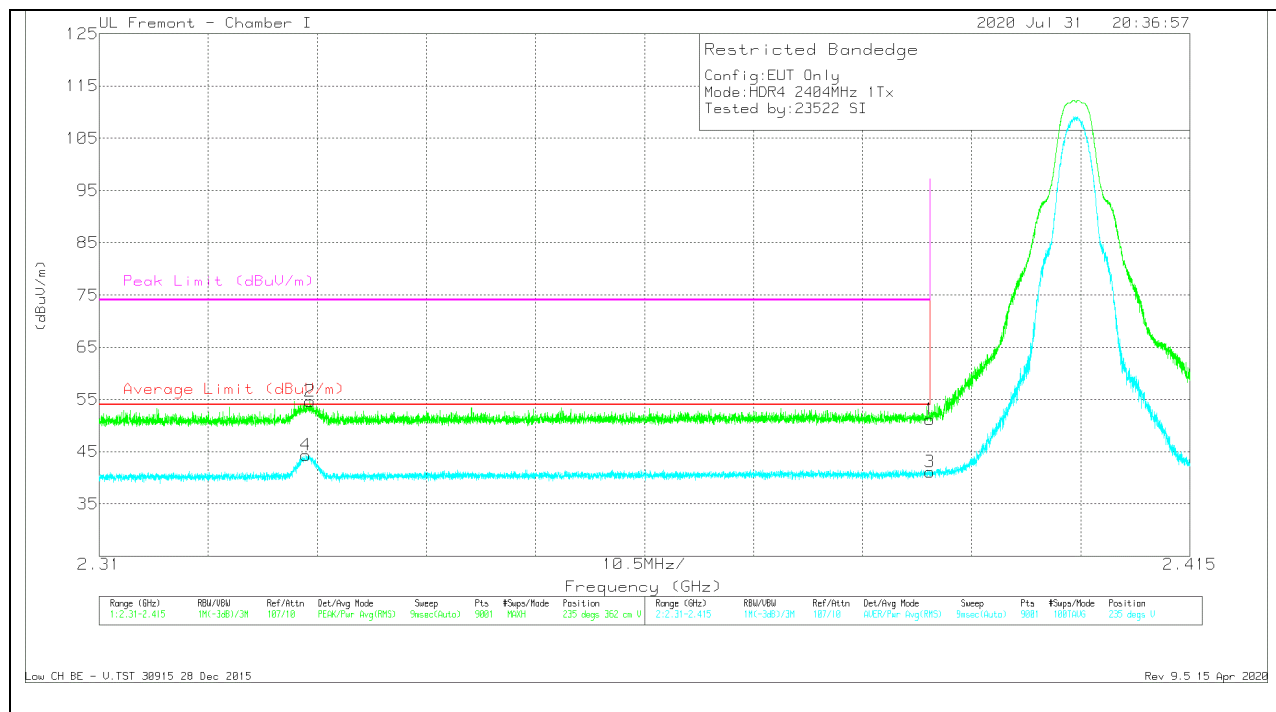
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 36.52                | Pk  | 31.9           | -17.3                  | 51.12                      | -                      | -           | 74                  | -22.88         | 235            | 362         | V        |
| 2      | * 2.3303        | 40.39                | Pk  | 31.5           | -17.2                  | 54.69                      | -                      | -           | 74                  | -19.31         | 235            | 362         | V        |
| 3      | * 2.38999       | 26.51                | RMS | 31.9           | -17.3                  | 41.11                      | 54                     | -12.89      | -                   | -              | 235            | 362         | V        |
| 4      | * 2.32989       | 29.99                | RMS | 31.5           | -17.2                  | 44.29                      | 54                     | -9.71       | -                   | -              | 235            | 362         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

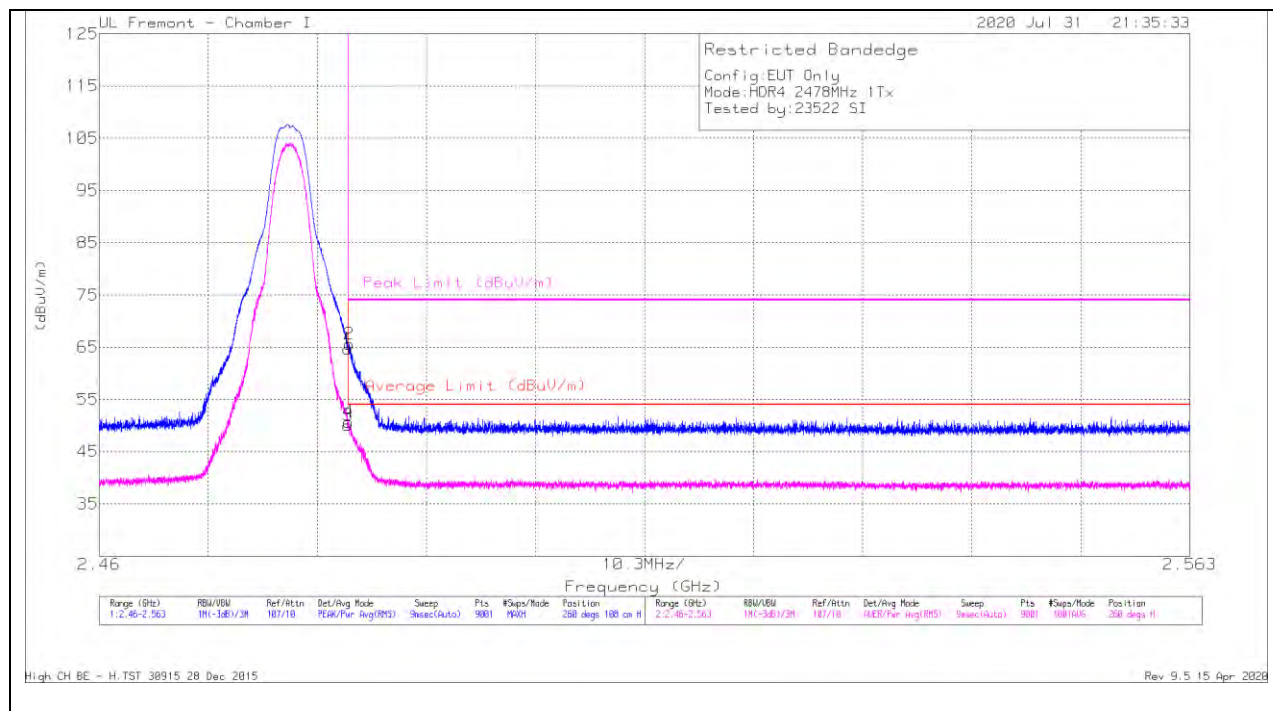
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 49.95                | Pk  | 32.4           | -17.7                  | 64.65                      | -                      | -           | 74                  | -9.35          | 260            | 108         | H        |
| 2      | * 2.48363       | 50.89                | Pk  | 32.4           | -17.7                  | 65.59                      | -                      | -           | 74                  | -8.41          | 260            | 108         | H        |
| 3      | * 2.48351       | 35.36                | RMS | 32.4           | -17.7                  | 50.06                      | 54                     | -3.94       | -                   | -              | 260            | 108         | H        |
| 4      | * 2.48354       | 35.98                | RMS | 32.4           | -17.7                  | 50.68                      | 54                     | -3.32       | -                   | -              | 260            | 108         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

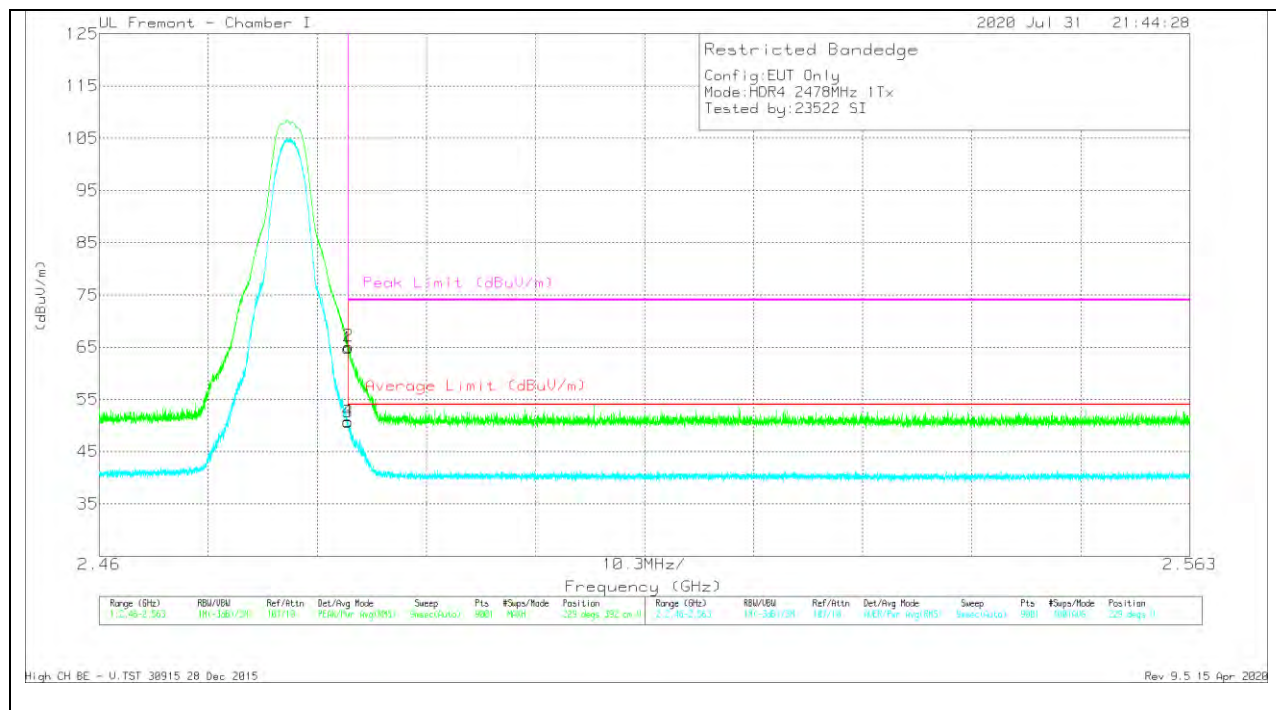
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



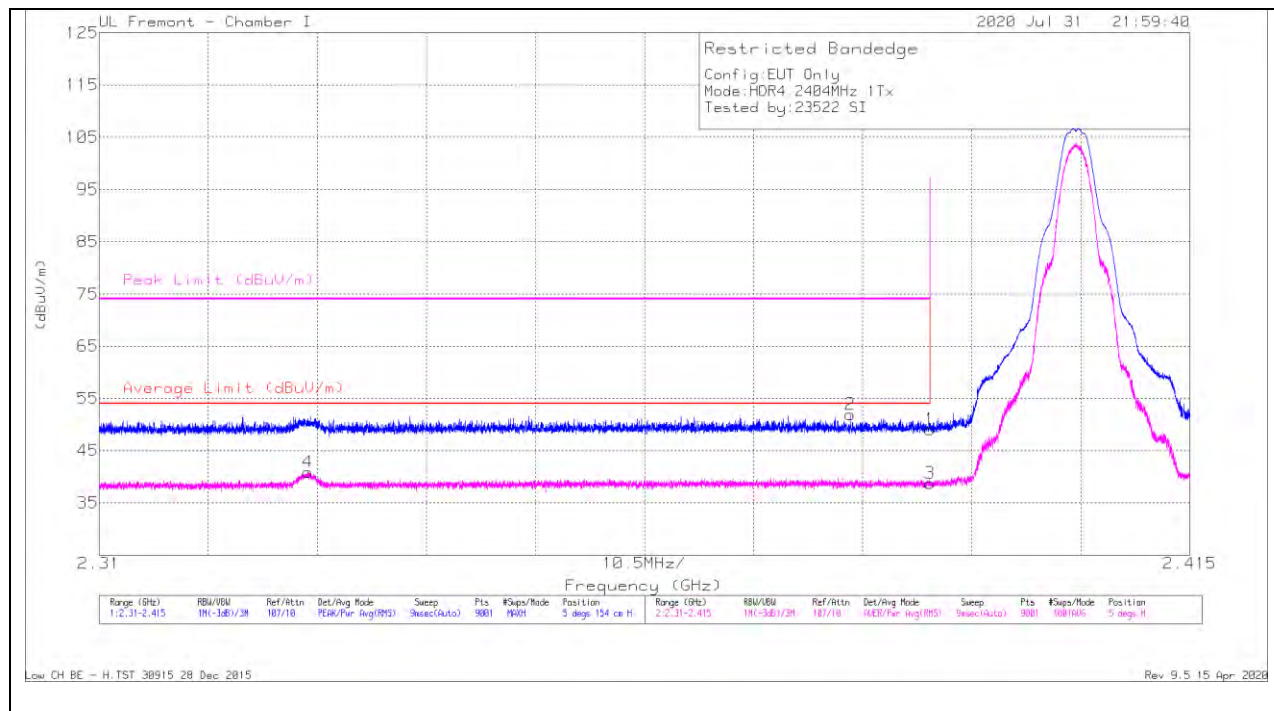
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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# **ANT 3**

## **BANDEDGE (LOW CHANNEL)**

### **HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/CbI/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.45                | Pk  | 31.9           | -17.3                  | 49.05                      | -                      | -           | 74                  | -24.95         | 5              | 154         | H        |
| 2      | * 2.38231       | 37.3                 | Pk  | 31.9           | -17.3                  | 51.9                       | -                      | -           | 74                  | -22.1          | 5              | 154         | H        |
| 3      | * 2.38999       | 24.12                | RMS | 31.9           | -17.3                  | 38.72                      | 54                     | -15.28      | -                   | -              | 5              | 154         | H        |
| 4      | * 2.33007       | 26.61                | RMS | 31.5           | -17.2                  | 40.91                      | 54                     | -13.09      | -                   | -              | 5              | 154         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

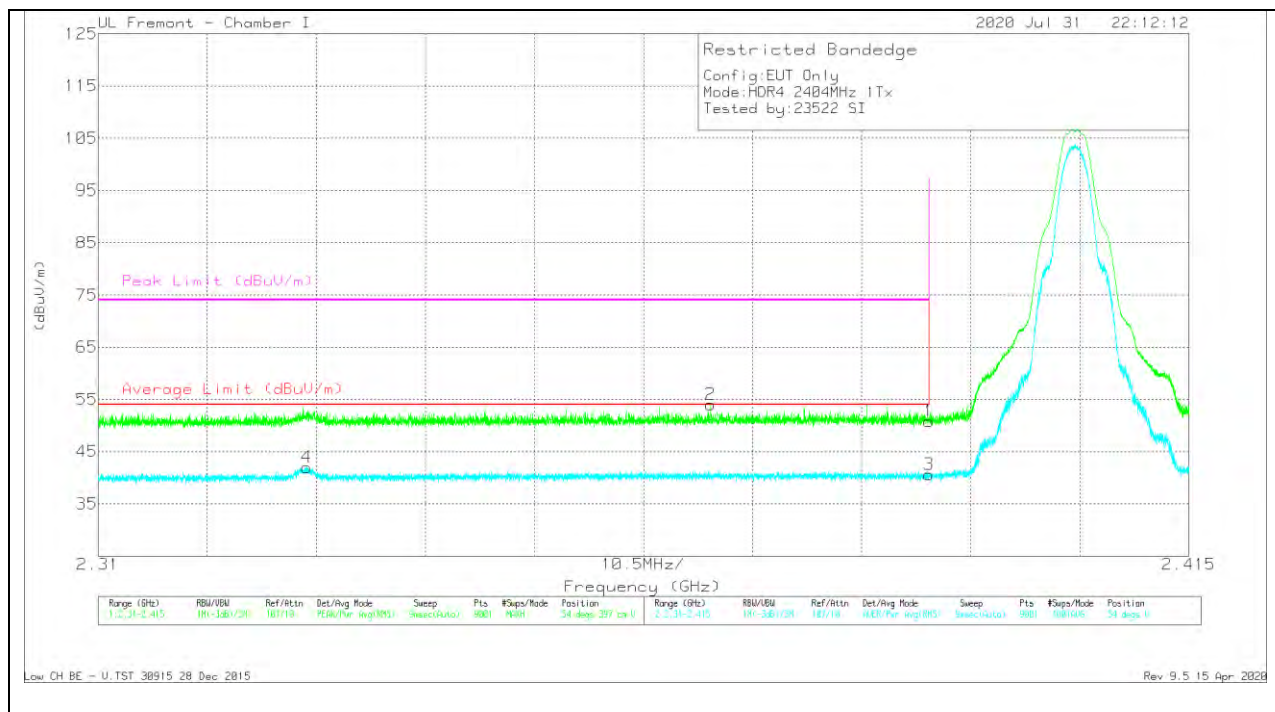
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 36.19                | Pk  | 31.9           | -17.3                 | 50.79                      | -                      | -           | 74                  | -23.21         | 54             | 397         | V        |
| 2      | * 2.36898       | 39.38                | Pk  | 31.9           | -17.3                 | 53.98                      | -                      | -           | 74                  | -20.02         | 54             | 397         | V        |
| 3      | * 2.38999       | 26.01                | RMS | 31.9           | -17.3                 | 40.61                      | 54                     | -13.39      | -                   | -              | 54             | 397         | V        |
| 4      | * 2.33007       | 27.72                | RMS | 31.5           | -17.2                 | 42.02                      | 54                     | -11.98      | -                   | -              | 54             | 397         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

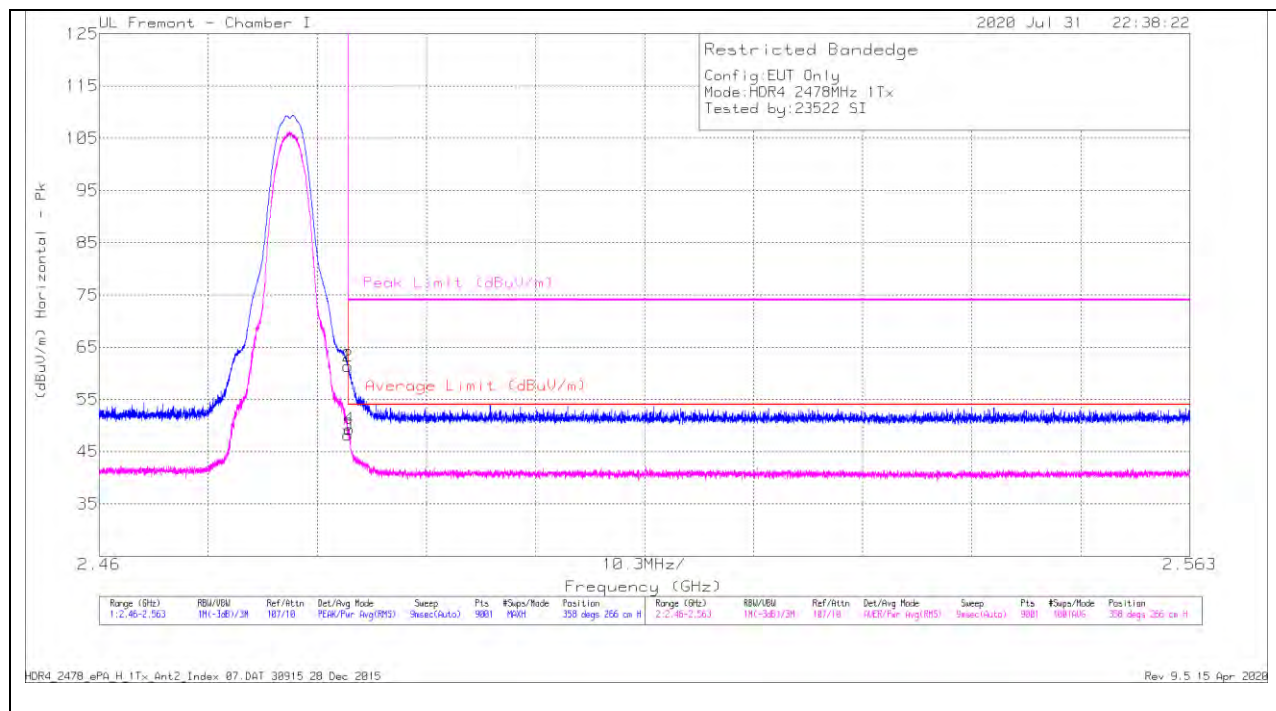
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 46.67                | Pk  | 32.4           | -17.7                  | 61.37                      | -                      | -           | 74                  | -12.63         | 358            | 266         | H        |
| 2      | * 2.48352       | 46.68                | Pk  | 32.4           | -17.7                  | 61.38                      | -                      | -           | 74                  | -12.62         | 358            | 266         | H        |
| 3      | * 2.48351       | 33.52                | RMS | 32.4           | -17.7                  | 48.22                      | 54                     | -5.78       | -                   | -              | 358            | 266         | H        |
| 4      | * 2.48361       | 34.56                | RMS | 32.4           | -17.7                  | 49.26                      | 54                     | -4.74       | -                   | -              | 358            | 266         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

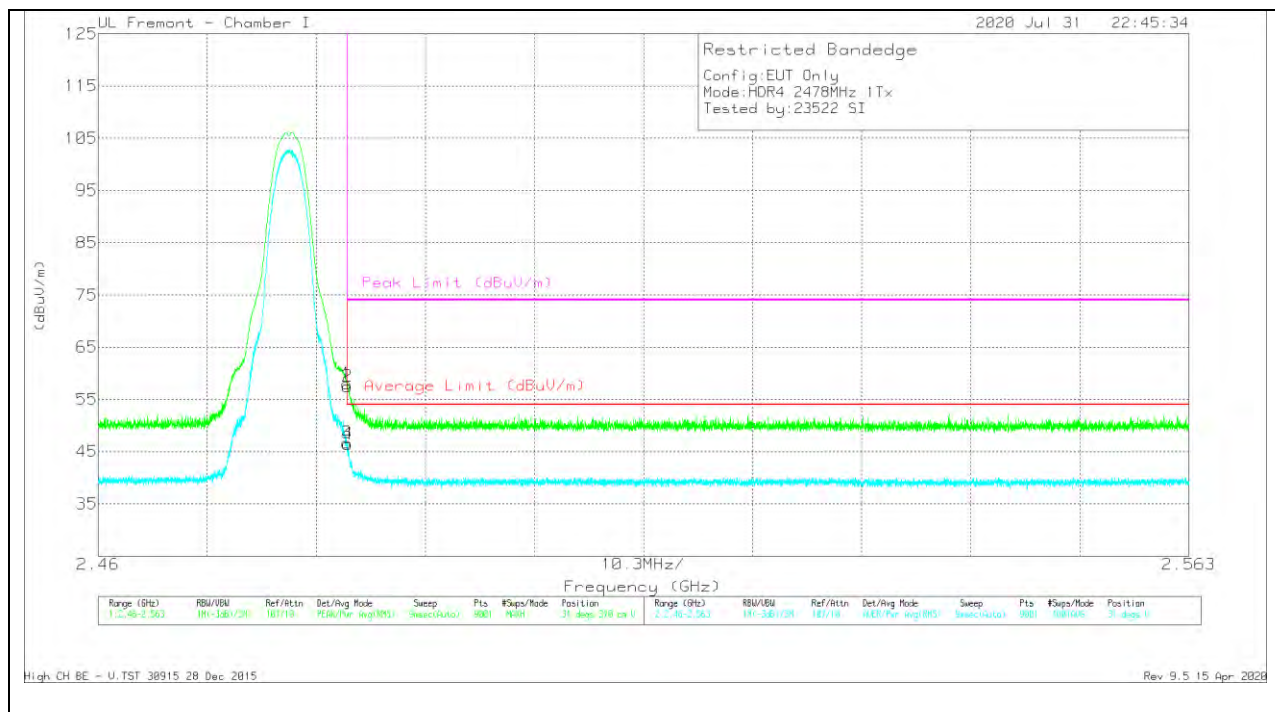
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.25                | Pk  | 32.4           | -17.7                  | 57.95                      | -                      | -           | 74                  | -16.05         | 31             | 370         | V        |
| 2      | * 2.48357       | 42.75                | Pk  | 32.4           | -17.7                  | 57.45                      | -                      | -           | 74                  | -16.55         | 31             | 370         | V        |
| 3      | * 2.48351       | 31.94                | RMS | 32.4           | -17.7                  | 46.64                      | 54                     | -7.36       | -                   | -              | 31             | 370         | V        |
| 4      | * 2.48354       | 31.75                | RMS | 32.4           | -17.7                  | 46.45                      | 54                     | -7.55       | -                   | -              | 31             | 370         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

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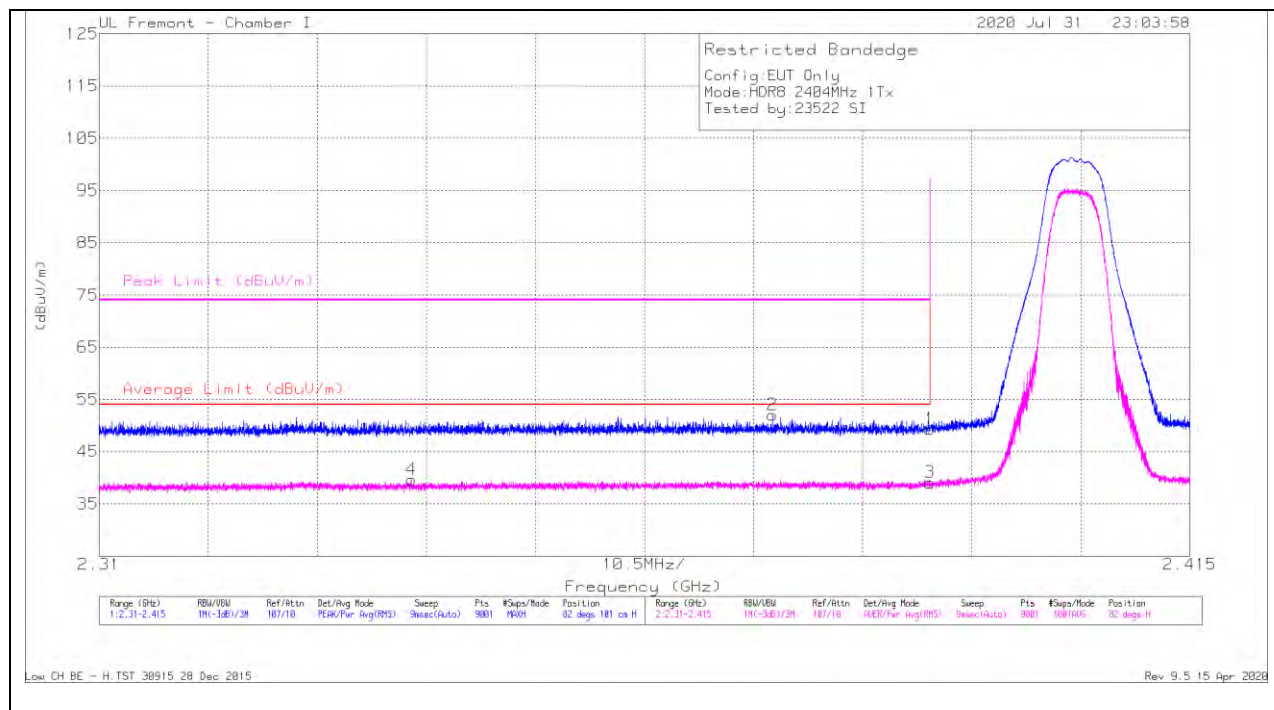
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## 10.2.2. HIGH POWER HDR (HDR8)

### ANT 4

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT

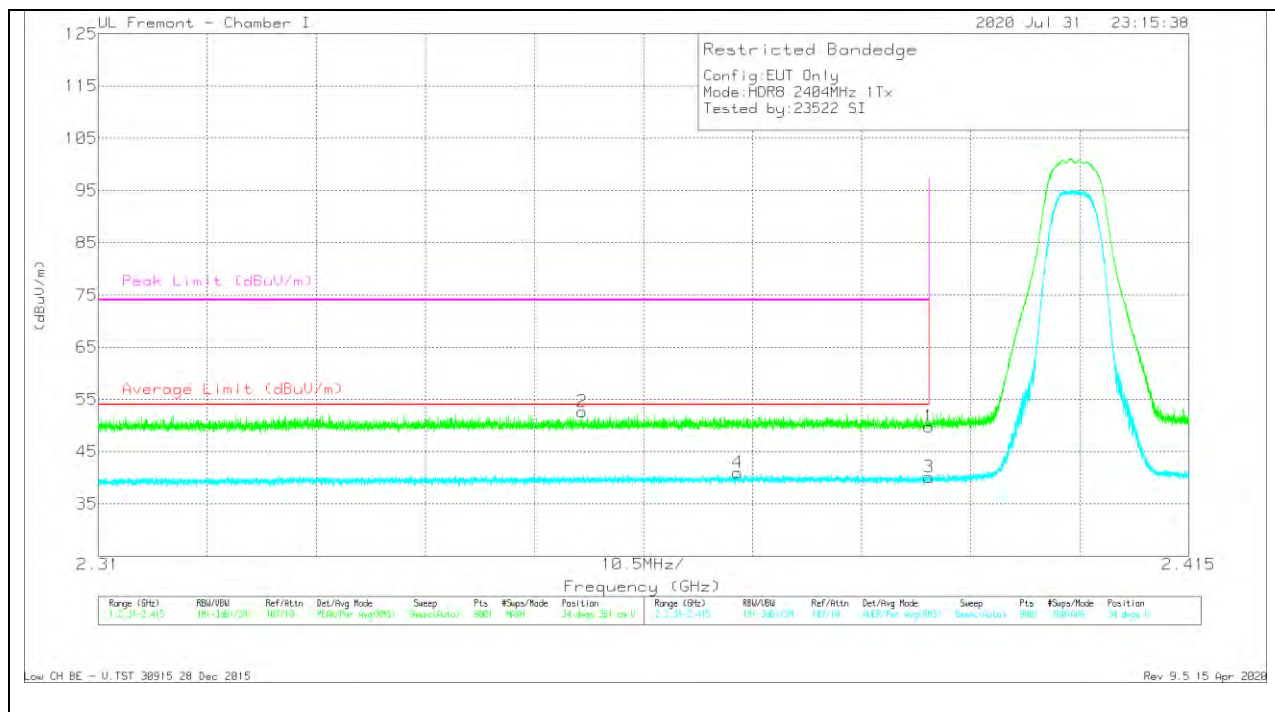


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.72                | Pk  | 31.9           | -17.3                | 49.32                      | -                      | -           | 74                  | -24.68         | 82             | 101         | H        |
| 2      | * 2.3748        | 37.47                | Pk  | 31.9           | -17.3                | 52.07                      | -                      | -           | 74                  | -21.93         | 82             | 101         | H        |
| 3      | * 2.38999       | 24.46                | RMS | 31.9           | -17.3                | 39.06                      | 54                     | -14.94      | -                   | -              | 82             | 101         | H        |
| 4      | * 2.34008       | 25.22                | RMS | 31.6           | -17.2                | 39.62                      | 54                     | -14.38      | -                   | -              | 82             | 101         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.14                | Pk  | 31.9           | -17.3                  | 49.74                      | -                      | -           | 74                  | -24.26         | 34             | 361         | V        |
| 2      | * 2.35659       | 38.15                | Pk  | 31.8           | -17.3                  | 52.65                      | -                      | -           | 74                  | -21.35         | 34             | 361         | V        |
| 3      | * 2.38999       | 25.51                | RMS | 31.9           | -17.3                  | 40.11                      | 54                     | -13.89      | -                   | -              | 34             | 361         | V        |
| 4      | * 2.37157       | 26.39                | RMS | 31.9           | -17.3                  | 40.99                      | 54                     | -13.01      | -                   | -              | 34             | 361         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

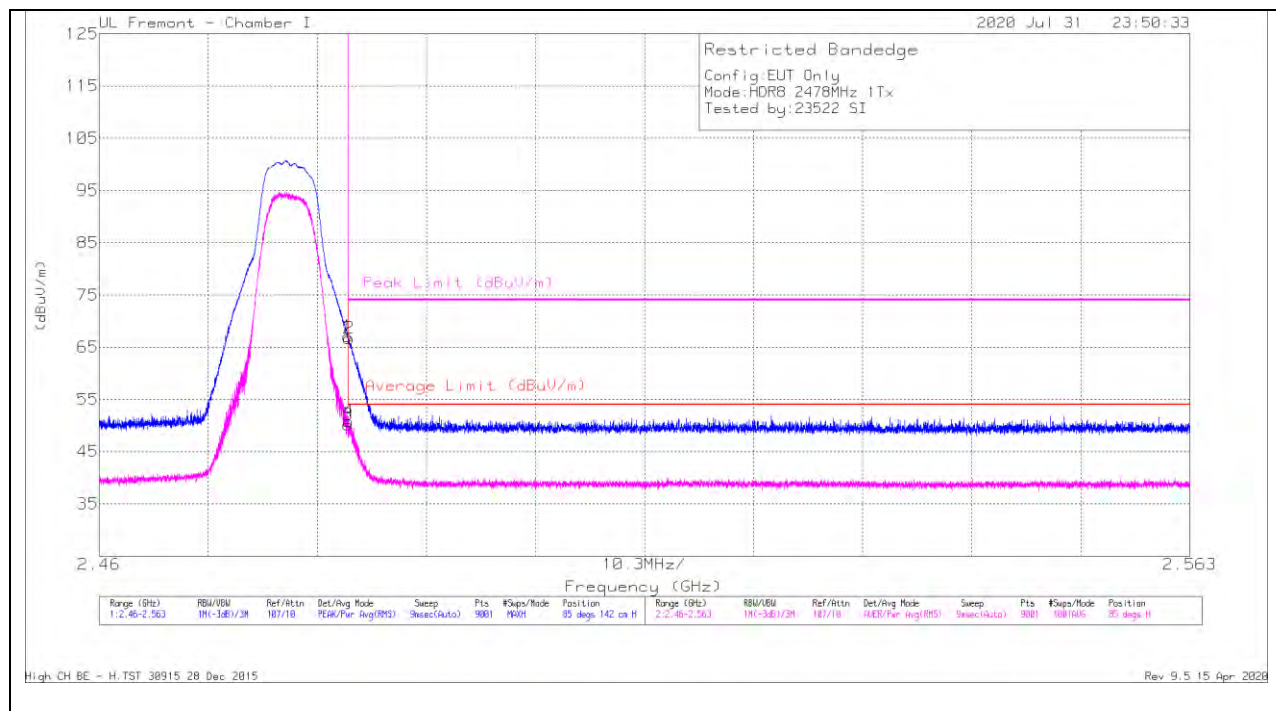
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 52.4                 | Pk  | 32.4           | -17.7                  | 67.1                       | -                      | -           | 74                  | -6.9           | 85             | 142         | H        |
| 2      | * 2.48359       | 51.94                | Pk  | 32.4           | -17.7                  | 66.64                      | -                      | -           | 74                  | -7.36          | 85             | 142         | H        |
| 3      | * 2.48351       | 35.47                | RMS | 32.4           | -17.7                  | 50.17                      | 54                     | -3.83       | -                   | -              | 85             | 142         | H        |
| 4      | * 2.48356       | 36.05                | RMS | 32.4           | -17.7                  | 50.75                      | 54                     | -3.25       | -                   | -              | 85             | 142         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

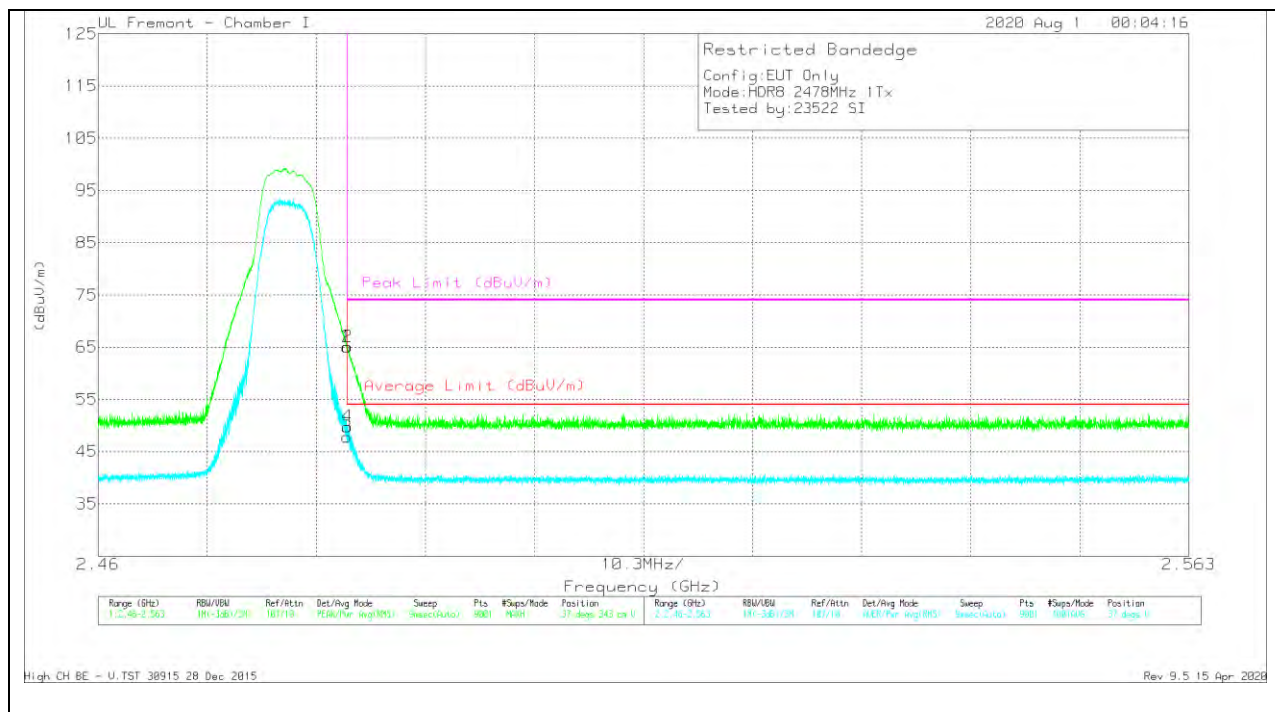
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 50.32                | Pk  | 32.4           | -17.7                  | 65.02                      | -                      | -           | 74                  | -8.98          | 37             | 343         | V        |
| 2      | * 2.48353       | 50.34                | Pk  | 32.4           | -17.7                  | 65.04                      | -                      | -           | 74                  | -8.96          | 37             | 343         | V        |
| 3      | * 2.48351       | 33.1                 | RMS | 32.4           | -17.7                  | 47.8                       | 54                     | -6.2        | -                   | -              | 37             | 343         | V        |
| 4      | * 2.48354       | 35.05                | RMS | 32.4           | -17.7                  | 49.75                      | 54                     | -4.25       | -                   | -              | 37             | 343         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

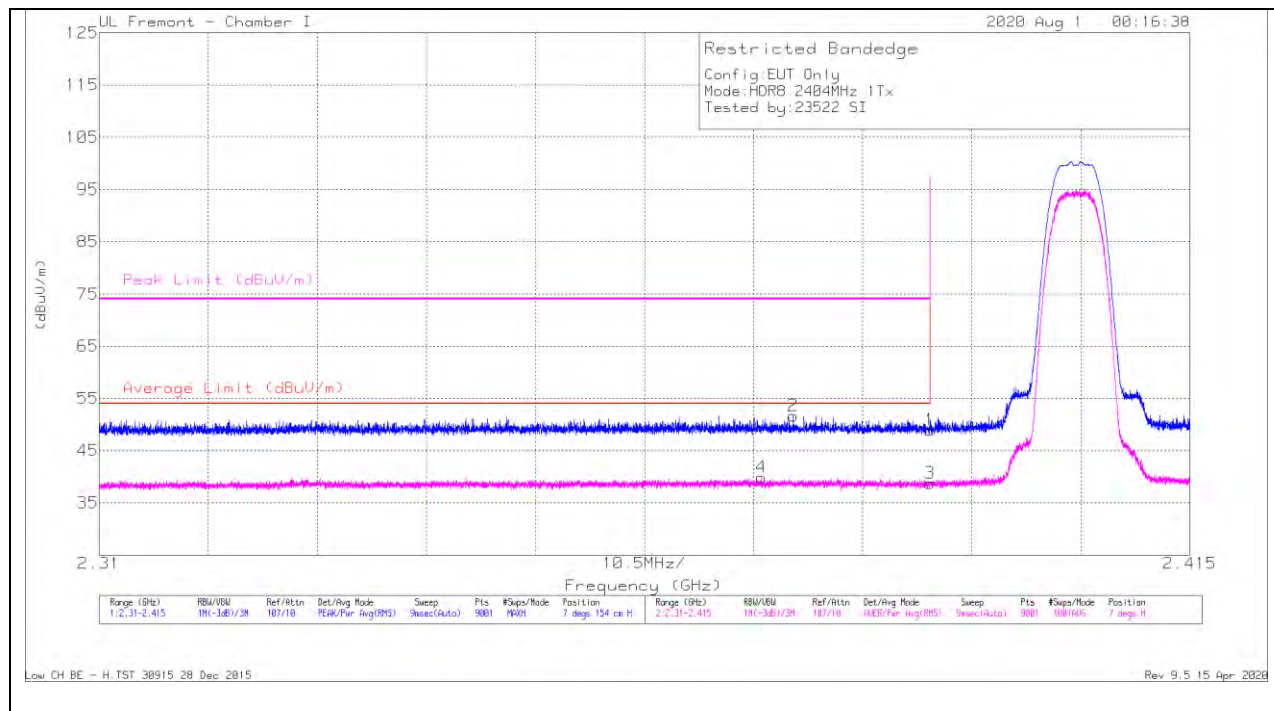
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### ANT 3

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dBm) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.35                | Pk  | 31.9          | -17.3                  | 48.95                      | -                      | -           | 74                  | -25.05         | 7              | 154         | H        |
| 2      | * 2.37681       | 37.08                | Pk  | 31.9          | -17.3                  | 51.68                      | -                      | -           | 74                  | -22.32         | 7              | 154         | H        |
| 3      | * 2.38999       | 24.2                 | RMS | 31.9          | -17.3                  | 38.8                       | 54                     | -15.2       | -                   | -              | 7              | 154         | H        |
| 4      | * 2.37375       | 25.29                | RMS | 31.9          | -17.3                  | 39.89                      | 54                     | -14.11      | -                   | -              | 7              | 154         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

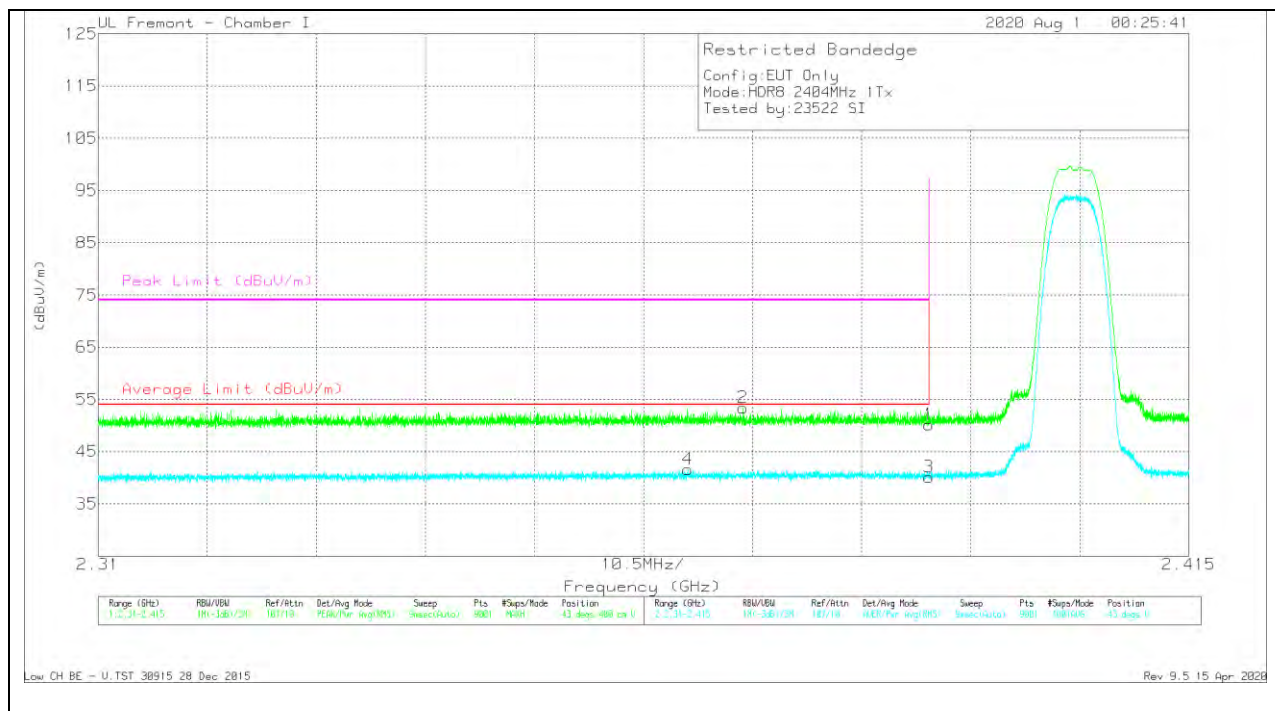
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.6                 | Pk  | 31.9           | -17.3                  | 50.2                       | -                      | -           | 74                  | -23.8          | 43             | 400         | V        |
| 2      | * 2.37208       | 38.77                | Pk  | 31.9           | -17.3                  | 53.37                      | -                      | -           | 74                  | -20.63         | 43             | 400         | V        |
| 3      | * 2.38999       | 25.49                | RMS | 31.9           | -17.3                  | 40.09                      | 54                     | -13.91      | -                   | -              | 43             | 400         | V        |
| 4      | * 2.36676       | 27.02                | RMS | 31.9           | -17.3                  | 41.62                      | 54                     | -12.38      | -                   | -              | 43             | 400         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

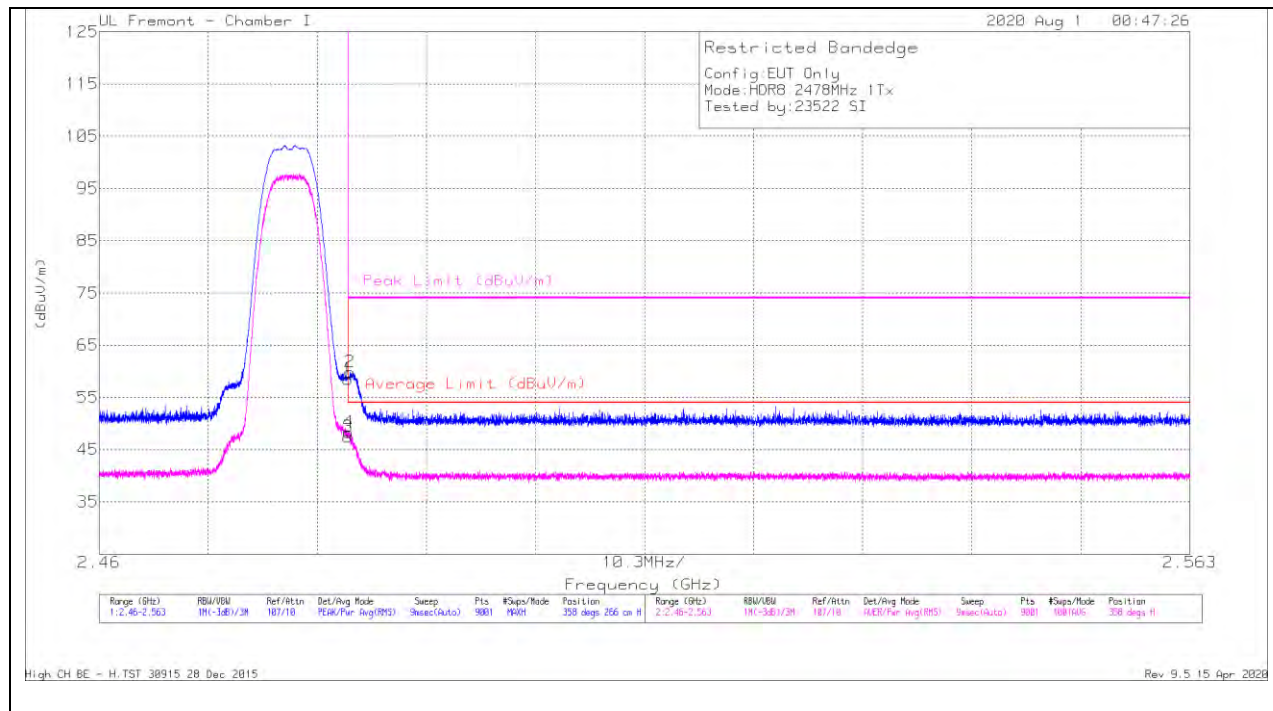
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.83                | Pk  | 32.4           | -17.7                  | 58.53                      | -                      | -           | 74                  | -15.47         | 358            | 266         | H        |
| 2      | * 2.48369       | 45.11                | Pk  | 32.4           | -17.7                  | 59.81                      | -                      | -           | 74                  | -14.19         | 358            | 266         | H        |
| 3      | * 2.48351       | 32.68                | RMS | 32.4           | -17.7                  | 47.38                      | 54                     | -6.62       | -                   | -              | 358            | 266         | H        |
| 4      | * 2.48356       | 33.55                | RMS | 32.4           | -17.7                  | 48.25                      | 54                     | -5.75       | -                   | -              | 358            | 266         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

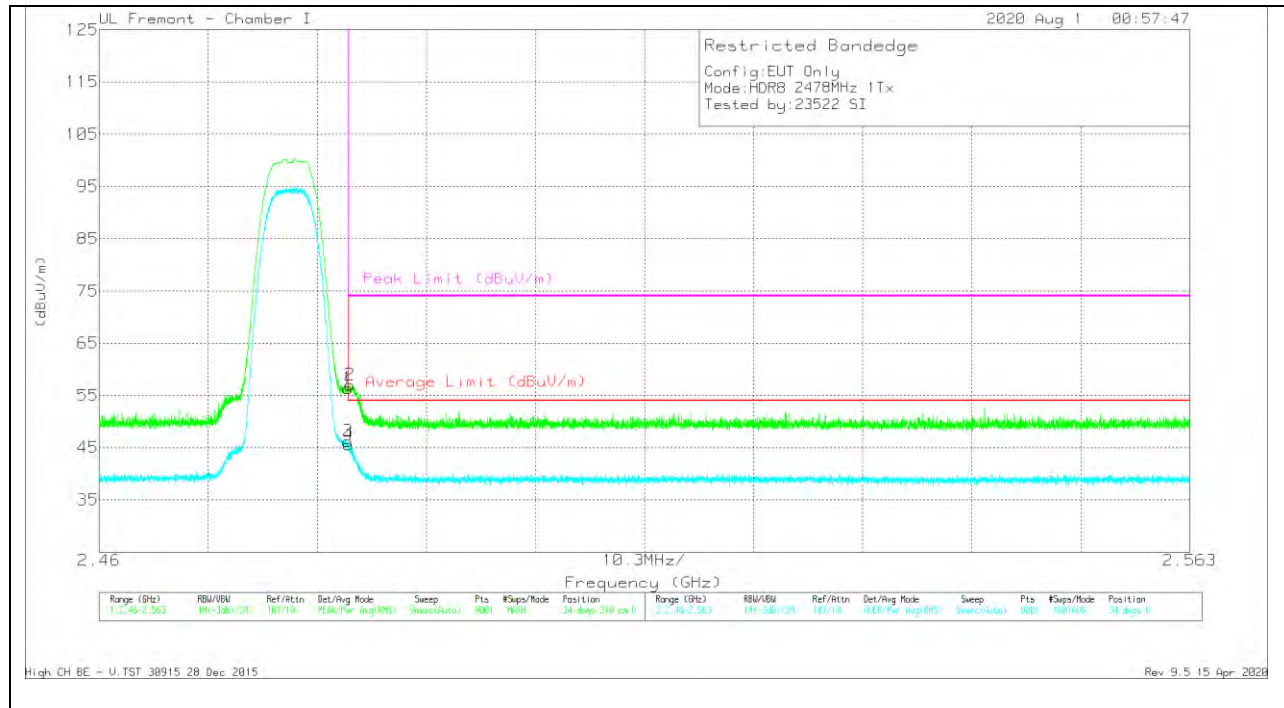
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 41.73                | Pk  | 32.4           | -17.7                  | 56.43                      | -                      | -           | 74                  | -17.57         | 34             | 370         | V        |
| 2      | * 2.48369       | 42.24                | Pk  | 32.4           | -17.7                  | 56.94                      | -                      | -           | 74                  | -17.06         | 34             | 370         | V        |
| 3      | * 2.48351       | 31.5                 | RMS | 32.4           | -17.7                  | 46.2                       | 54                     | -7.8        | -                   | -              | 34             | 370         | V        |
| 4      | * 2.48356       | 30.87                | RMS | 32.4           | -17.7                  | 45.57                      | 54                     | -8.43       | -                   | -              | 34             | 370         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

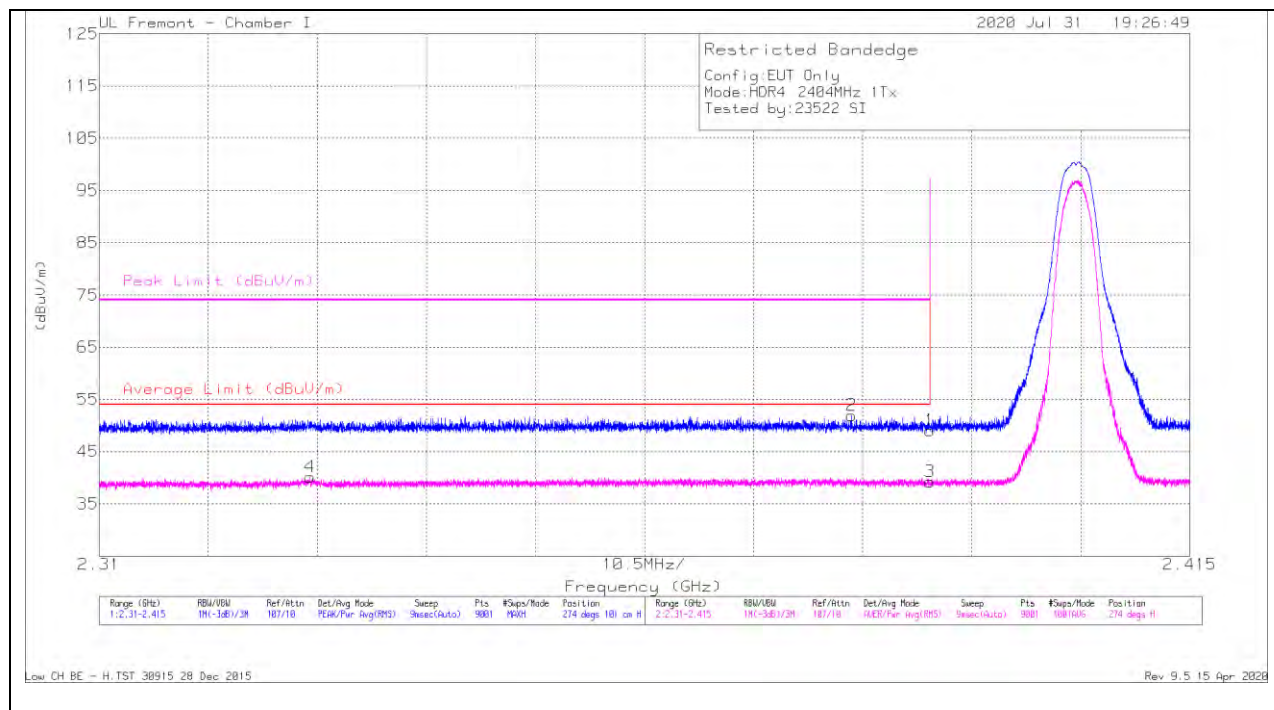
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### 10.2.3. LOW POWER HDR (HDR4)

#### ANT 4

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT

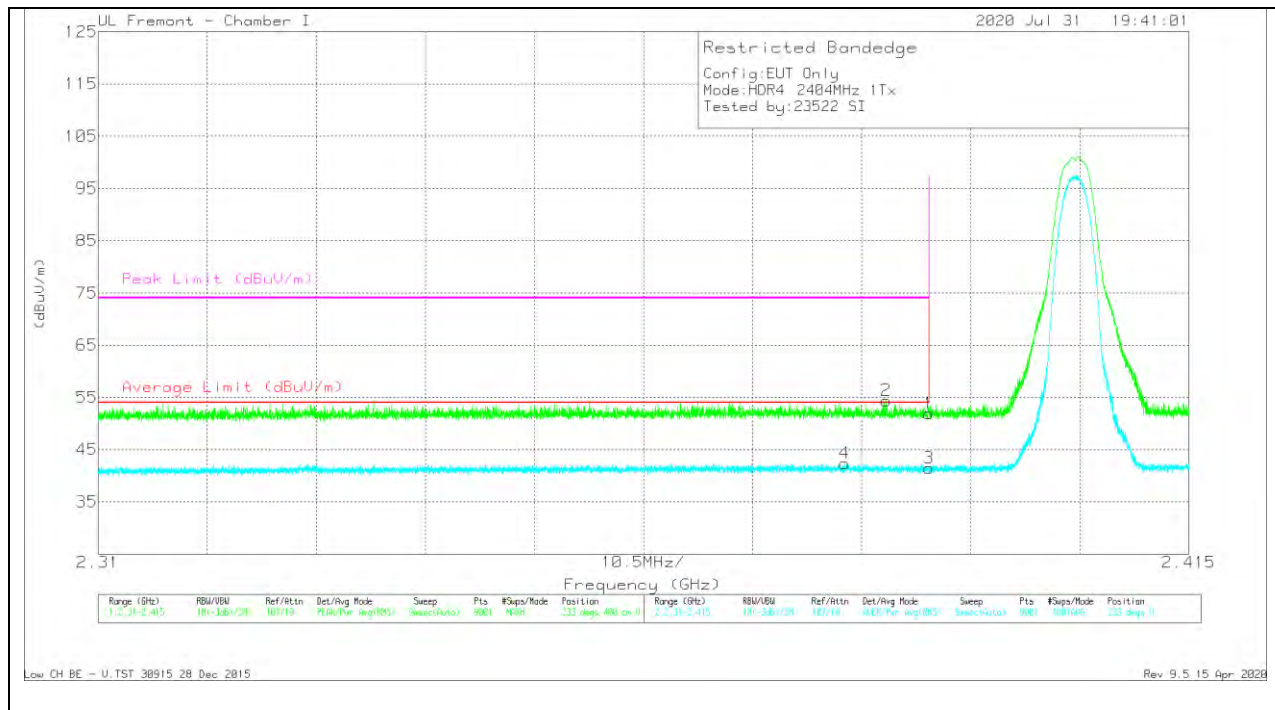


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.43                | Pk  | 31.9           | -17.3                | 49.03                      | -                      | -           | 74                  | -24.97         | 274            | 101         | H        |
| 2      | * 2.38242       | 37.28                | Pk  | 31.9           | -17.3                | 51.88                      | -                      | -           | 74                  | -22.12         | 274            | 101         | H        |
| 3      | * 2.38999       | 24.63                | RMS | 31.9           | -17.3                | 39.23                      | 54                     | -14.77      | -                   | -              | 274            | 101         | H        |
| 4      | * 2.3303        | 25.82                | RMS | 31.5           | -17.2                | 40.12                      | 54                     | -13.88      | -                   | -              | 274            | 101         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 37.36                | Pk  | 31.9           | -17.3                 | 51.96                      | -                      | -           | 74                  | -22.04         | 233            | 400         | V        |
| 2      | * 2.38584       | 39.82                | Pk  | 31.9           | -17.3                 | 54.42                      | -                      | -           | 74                  | -19.58         | 233            | 400         | V        |
| 3      | * 2.38999       | 26.88                | RMS | 31.9           | -17.3                 | 41.48                      | 54                     | -12.52      | -                   | -              | 233            | 400         | V        |
| 4      | * 2.38186       | 27.78                | RMS | 31.9           | -17.3                 | 42.38                      | 54                     | -11.62      | -                   | -              | 233            | 400         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

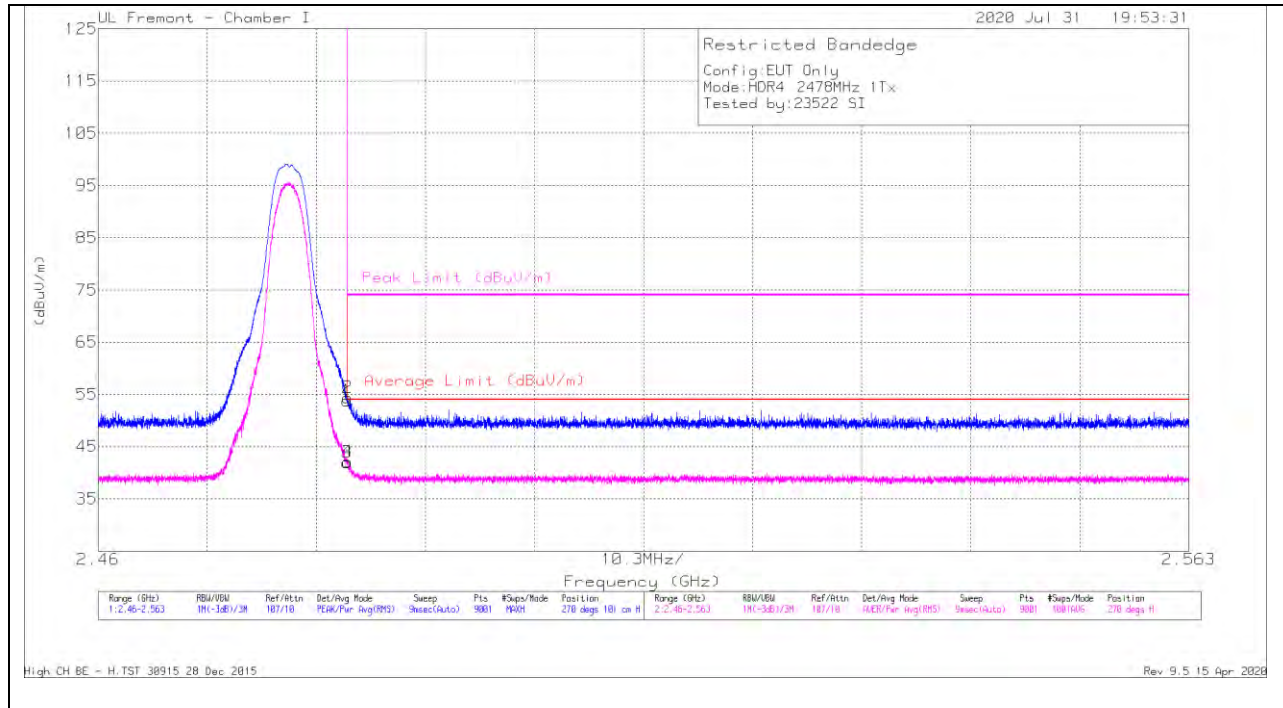
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 39.1                 | Pk  | 32.4           | -17.7                  | 53.8                       | -                      | -           | 74                  | -20.2          | 270            | 101         | H        |
| 2      | * 2.48355       | 39.73                | Pk  | 32.4           | -17.7                  | 54.43                      | -                      | -           | 74                  | -19.57         | 270            | 101         | H        |
| 3      | * 2.48351       | 27.28                | RMS | 32.4           | -17.7                  | 41.98                      | 54                     | -12.02      | -                   | -              | 270            | 101         | H        |
| 4      | * 2.48353       | 27.44                | RMS | 32.4           | -17.7                  | 42.14                      | 54                     | -11.86      | -                   | -              | 270            | 101         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

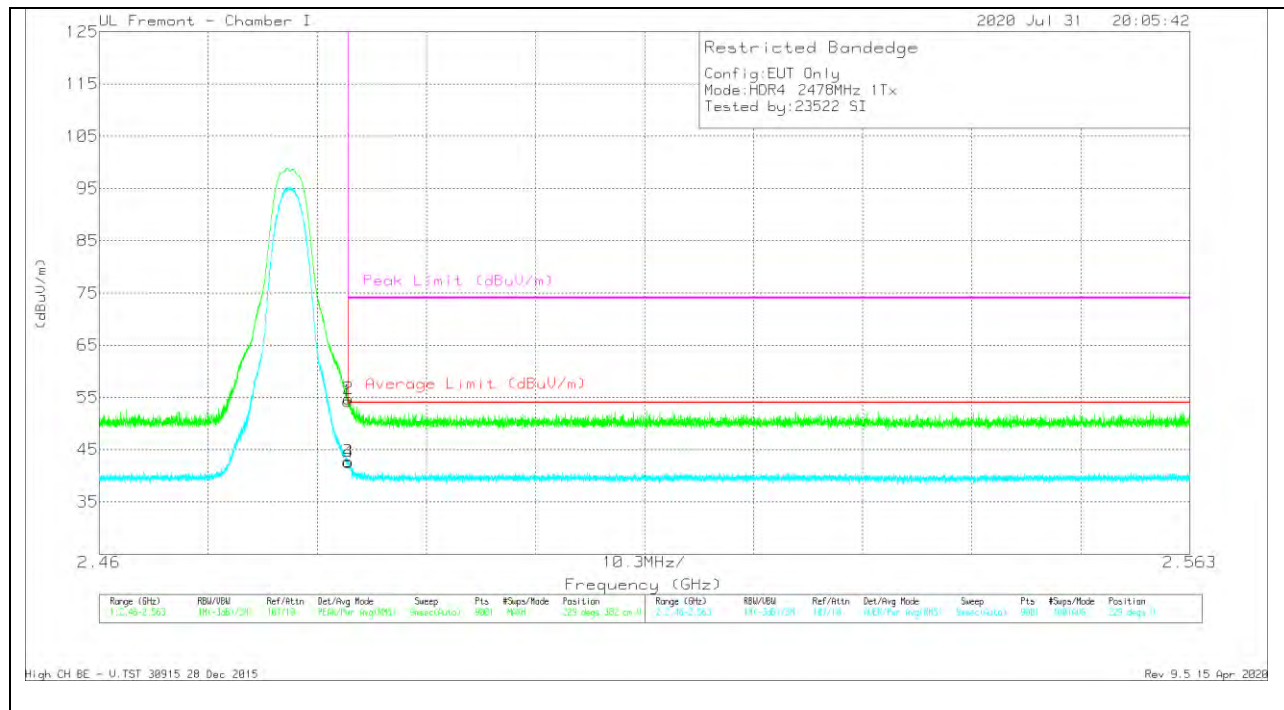
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 39.61                | Pk  | 32.4           | -17.7                 | 54.31                      | -                      | -           | 74                  | -19.69         | 229            | 382         | V        |
| 2      | * 2.48354       | 40.1                 | Pk  | 32.4           | -17.7                 | 54.8                       | -                      | -           | 74                  | -19.2          | 229            | 382         | V        |
| 3      | * 2.48351       | 28                   | RMS | 32.4           | -17.7                 | 42.7                       | 54                     | -11.3       | -                   | -              | 229            | 382         | V        |
| 4      | * 2.48355       | 27.91                | RMS | 32.4           | -17.7                 | 42.61                      | 54                     | -11.39      | -                   | -              | 229            | 382         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

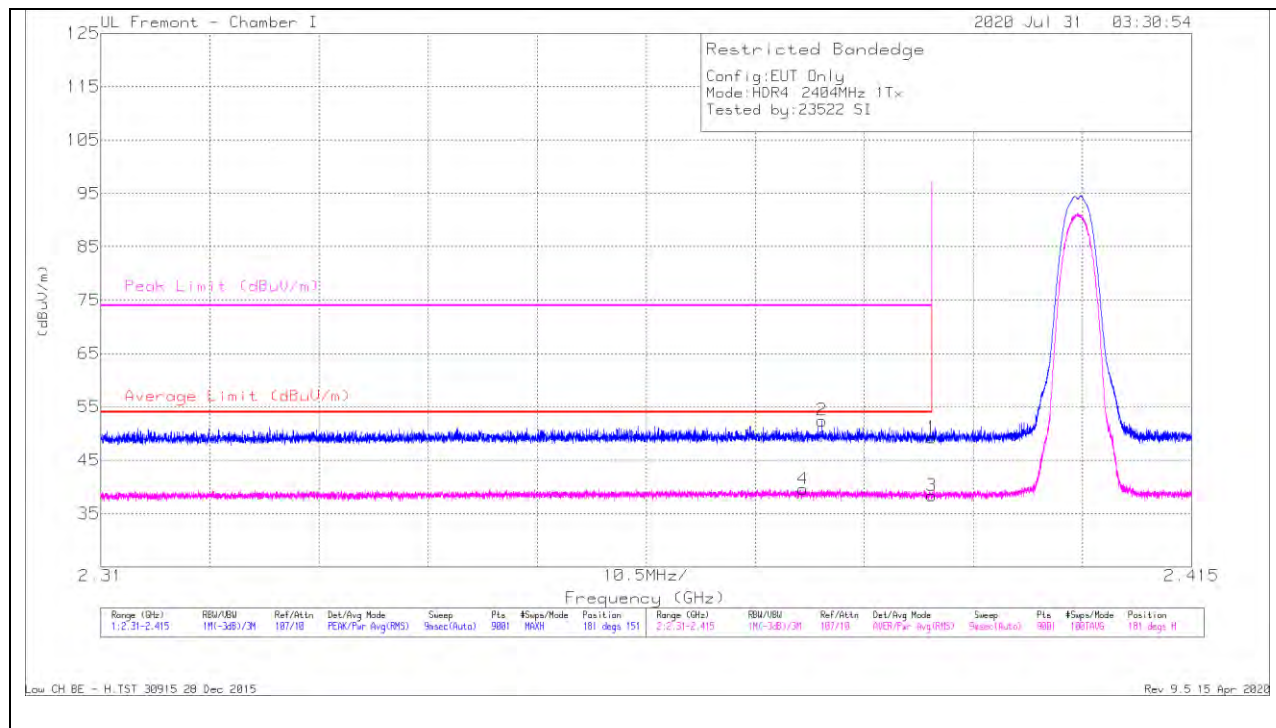
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# **ANT 3**

## **BANDEDGE (LOW CHANNEL)**

### **HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.6                 | Pk  | 31.9           | -17.3                 | 49.2                       | -                      | -           | 74                  | -24.8          | 181            | 151         | H        |
| 2      | * 2.37941       | 37.85                | Pk  | 31.9           | -17.3                 | 52.45                      | -                      | -           | 74                  | -21.55         | 181            | 151         | H        |
| 3      | * 2.38999       | 23.77                | RMS | 31.9           | -17.3                 | 38.37                      | 54                     | -15.63      | -                   | -              | 181            | 151         | H        |
| 4      | * 2.37758       | 25                   | RMS | 31.9           | -17.3                 | 39.6                       | 54                     | -14.4       | -                   | -              | 181            | 151         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

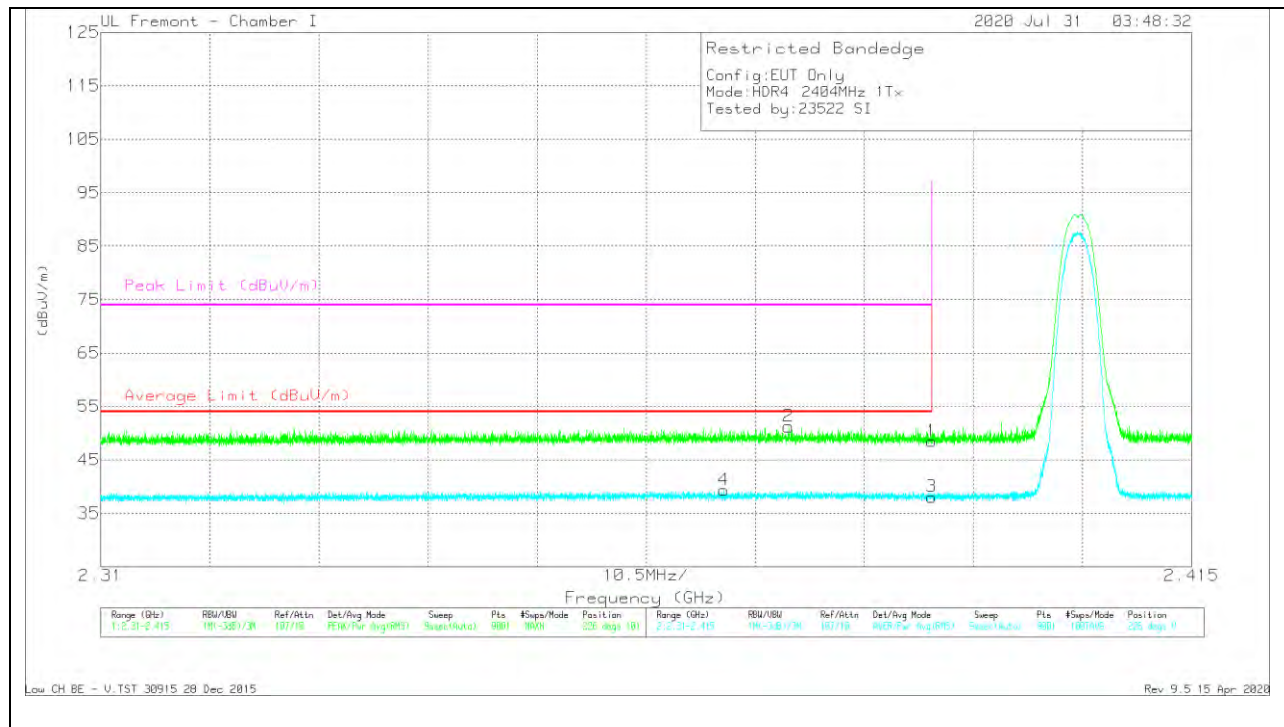
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 33.88                | Pk  | 31.9           | -17.3                  | 48.48                      | -                      | -           | 74                  | -25.52         | 226            | 101         | V        |
| 2      | * 2.37619       | 36.64                | Pk  | 31.9           | -17.3                  | 51.24                      | -                      | -           | 74                  | -22.76         | 226            | 101         | V        |
| 3      | * 2.38999       | 23.47                | RMS | 31.9           | -17.3                  | 38.07                      | 54                     | -15.93      | -                   | -              | 226            | 101         | V        |
| 4      | * 2.36995       | 24.73                | RMS | 31.9           | -17.3                  | 39.33                      | 54                     | -14.67      | -                   | -              | 226            | 101         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

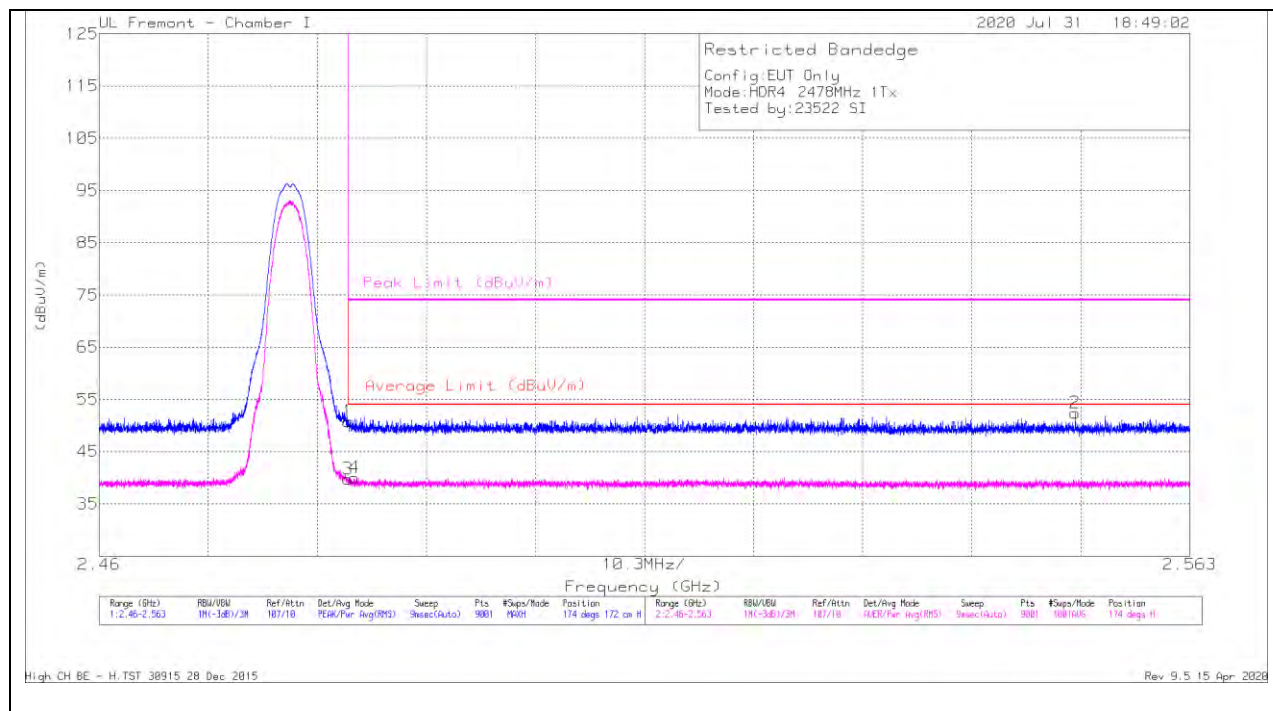
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fibr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 36.11                | Pk  | 32.4           | -17.7                 | 50.81                      | -                      | -           | 74                  | -23.19         | 174            | 172         | H        |
| 2      | 2.55219         | 37.85                | Pk  | 32.3           | -17.8                 | 52.35                      | -                      | -           | 74                  | -21.65         | 174            | 172         | H        |
| 3      | * 2.48351       | 24.99                | RMS | 32.4           | -17.7                 | 39.69                      | 54                     | -14.31      | -                   | -              | 174            | 172         | H        |
| 4      | * 2.48412       | 25.28                | RMS | 32.4           | -17.7                 | 39.98                      | 54                     | -14.02      | -                   | -              | 174            | 172         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

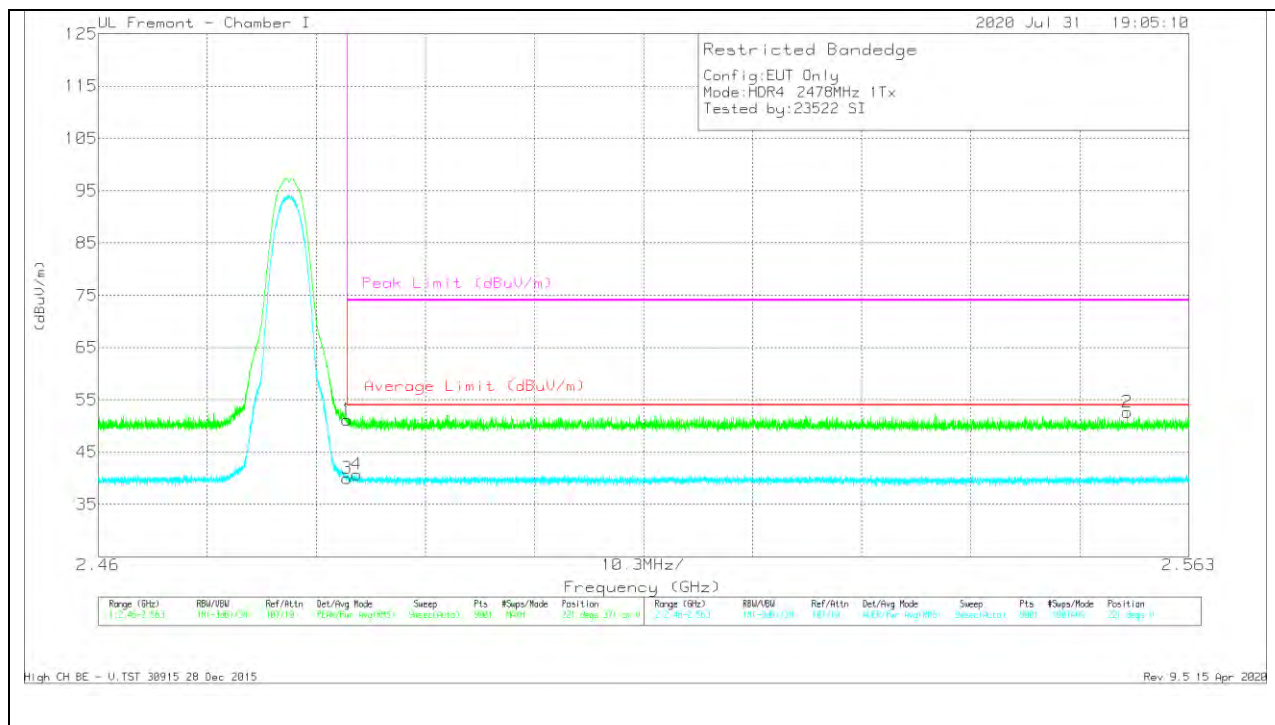
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 36.42                | Pk  | 32.4           | -17.7                | 51.12                      | -                      | -           | 74                  | -22.88         | 221            | 371         | V        |
| 2      | 2.55719         | 38.11                | Pk  | 32.3           | -17.8                | 52.61                      | -                      | -           | 74                  | -21.39         | 221            | 371         | V        |
| 3      | * 2.48351       | 25.31                | RMS | 32.4           | -17.7                | 40.01                      | 54                     | -13.99      | -                   | -              | 221            | 371         | V        |
| 4      | * 2.48441       | 25.99                | RMS | 32.4           | -17.7                | 40.69                      | 54                     | -13.31      | -                   | -              | 221            | 371         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PK - Peak detector  
RMS - RMS detection

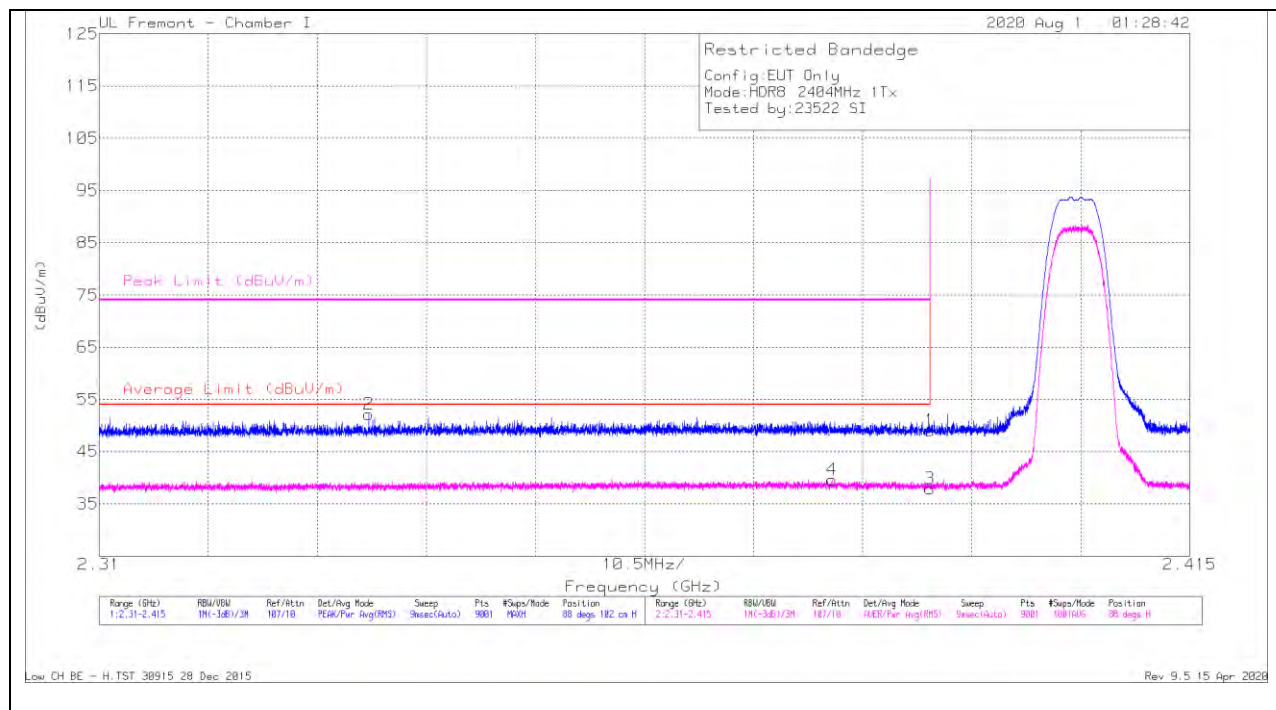
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## 10.2.4. LOW POWER HDR (HDR8)

### ANT 4

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.44                | Pk  | 31.9           | -17.3                | 49.04                      | -                      | -           | 74                  | -24.96         | 88             | 102         | H        |
| 2      | * 2.33596       | 37.75                | Pk  | 31.6           | -17.2                | 52.15                      | -                      | -           | 74                  | -21.85         | 88             | 102         | H        |
| 3      | * 2.38999       | 23.32                | RMS | 31.9           | -17.3                | 37.92                      | 54                     | -16.08      | -                   | -              | 88             | 102         | H        |
| 4      | * 2.38055       | 25.03                | RMS | 31.9           | -17.3                | 39.63                      | 54                     | -14.37      | -                   | -              | 88             | 102         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

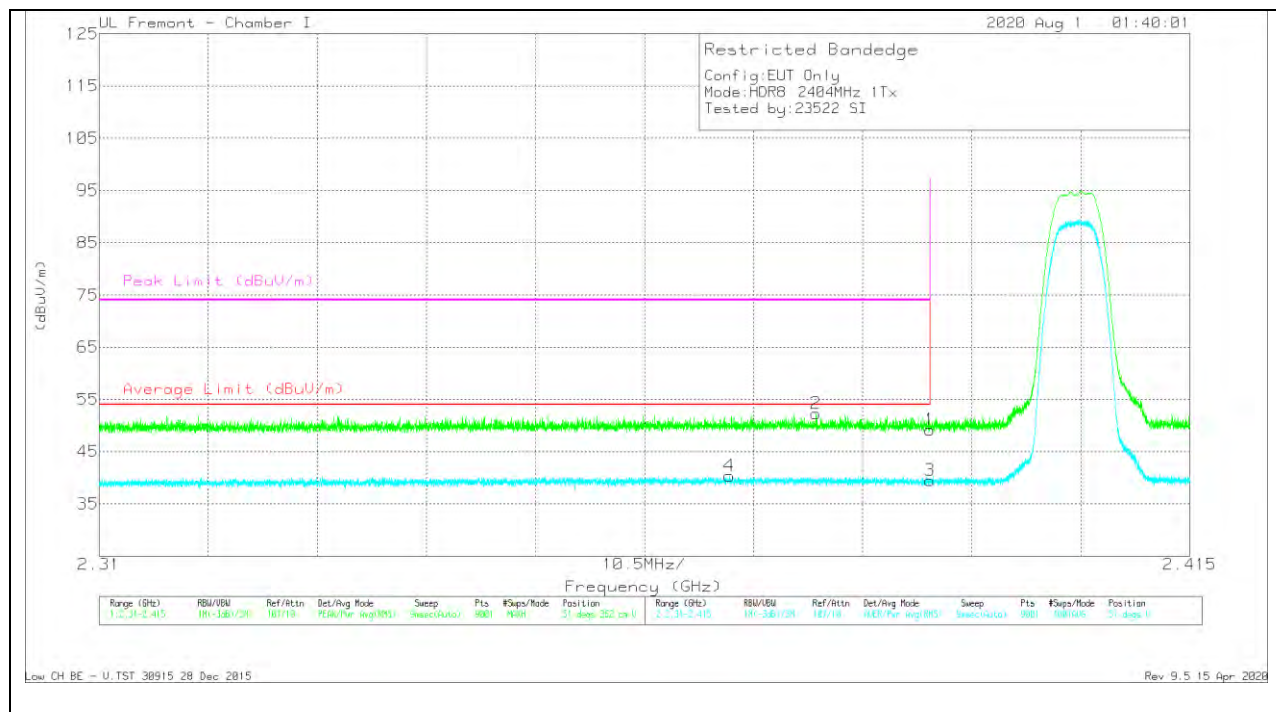
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 34.63                | Pk  | 31.9           | -17.3                 | 49.23                      | -                      | -           | 74                  | -24.77         | 51             | 362         | V        |
| 2      | * 2.37899       | 37.72                | Pk  | 31.9           | -17.3                 | 52.32                      | -                      | -           | 74                  | -21.68         | 51             | 362         | V        |
| 3      | * 2.38999       | 24.89                | RMS | 31.9           | -17.3                 | 39.49                      | 54                     | -14.51      | -                   | -              | 51             | 362         | V        |
| 4      | * 2.37067       | 25.78                | RMS | 31.9           | -17.3                 | 40.38                      | 54                     | -13.62      | -                   | -              | 51             | 362         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

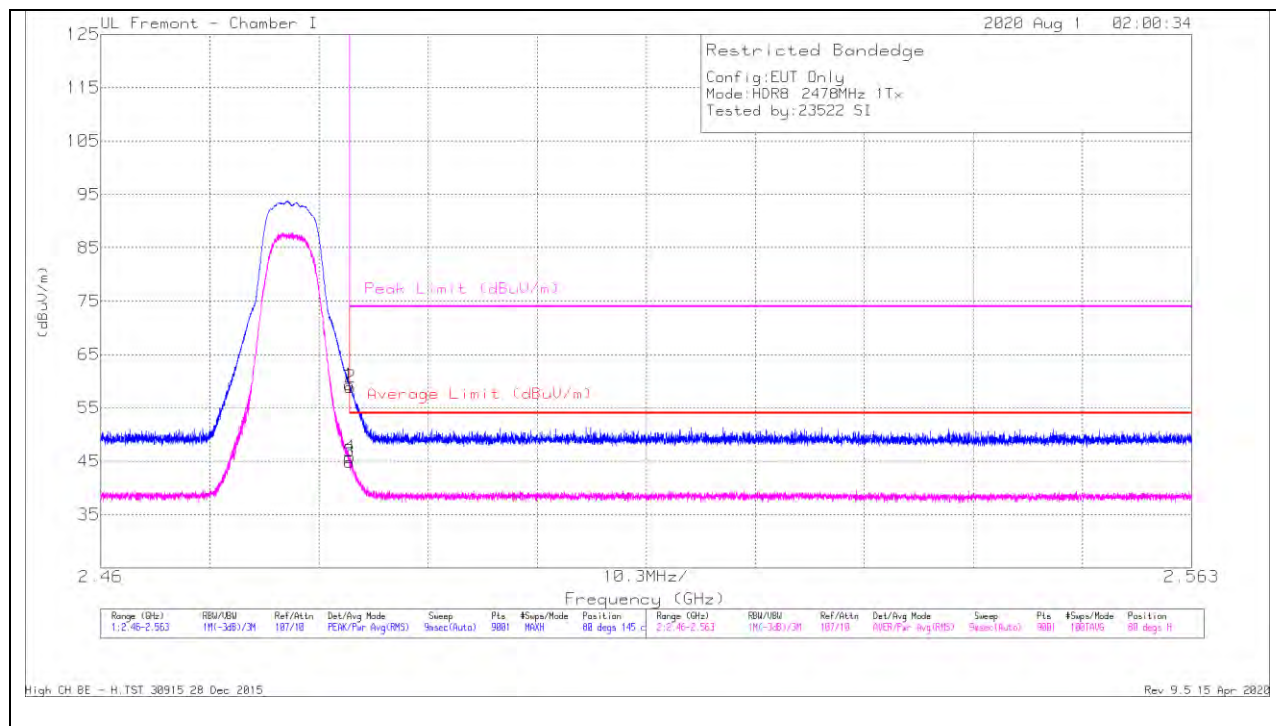
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 44.63                | Pk  | 32.4           | -17.7                  | 59.33                      | -                      | -           | 74                  | -14.67         | 80             | 145         | H        |
| 2      | * 2.48357       | 44.16                | Pk  | 32.4           | -17.7                  | 58.86                      | -                      | -           | 74                  | -15.14         | 80             | 145         | H        |
| 3      | * 2.48351       | 30.19                | RMS | 32.4           | -17.7                  | 44.89                      | 54                     | -9.11       | -                   | -              | 80             | 145         | H        |
| 4      | * 2.48352       | 31.08                | RMS | 32.4           | -17.7                  | 45.78                      | 54                     | -8.22       | -                   | -              | 80             | 145         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

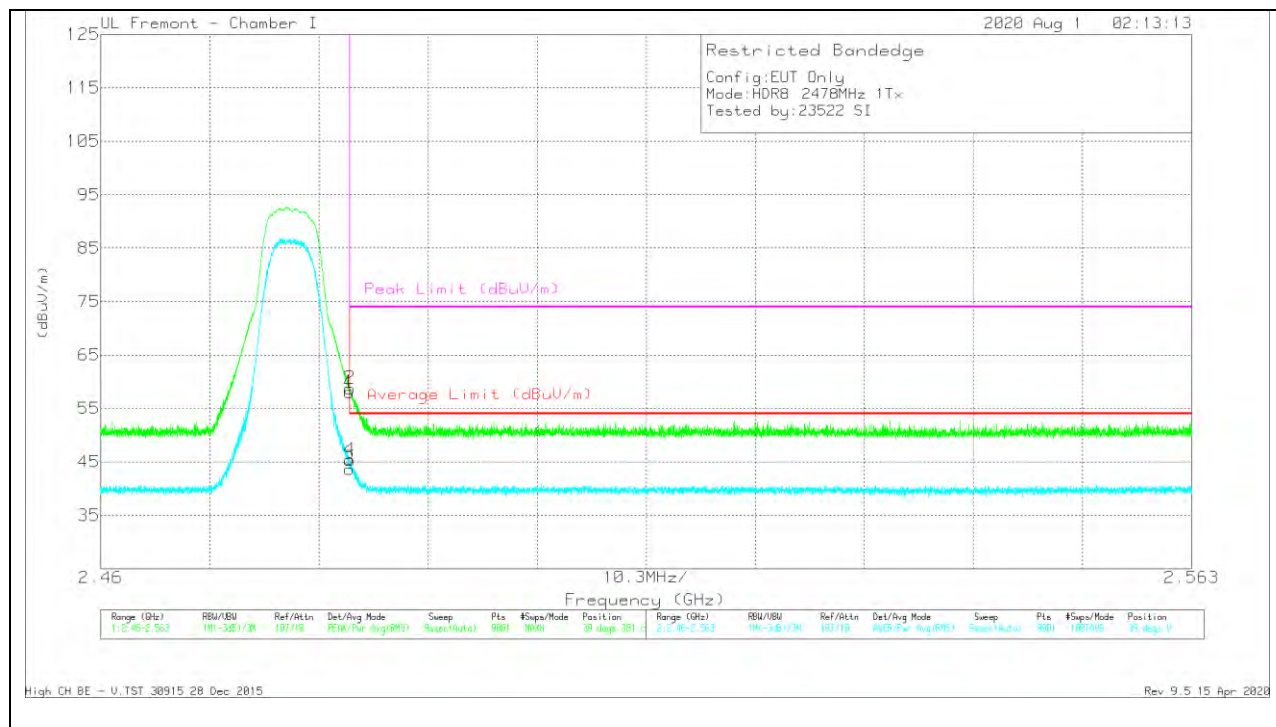
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.36                | Pk  | 32.4           | -17.7                 | 58.06                      | -                      | -           | 74                  | -15.94         | 39             | 381         | V        |
| 2      | * 2.48352       | 44.05                | Pk  | 32.4           | -17.7                 | 58.75                      | -                      | -           | 74                  | -15.25         | 39             | 381         | V        |
| 3      | * 2.48351       | 28.93                | RMS | 32.4           | -17.7                 | 43.63                      | 54                     | -10.37      | -                   | -              | 39             | 381         | V        |
| 4      | * 2.48352       | 30.67                | RMS | 32.4           | -17.7                 | 45.37                      | 54                     | -8.63       | -                   | -              | 39             | 381         | V        |

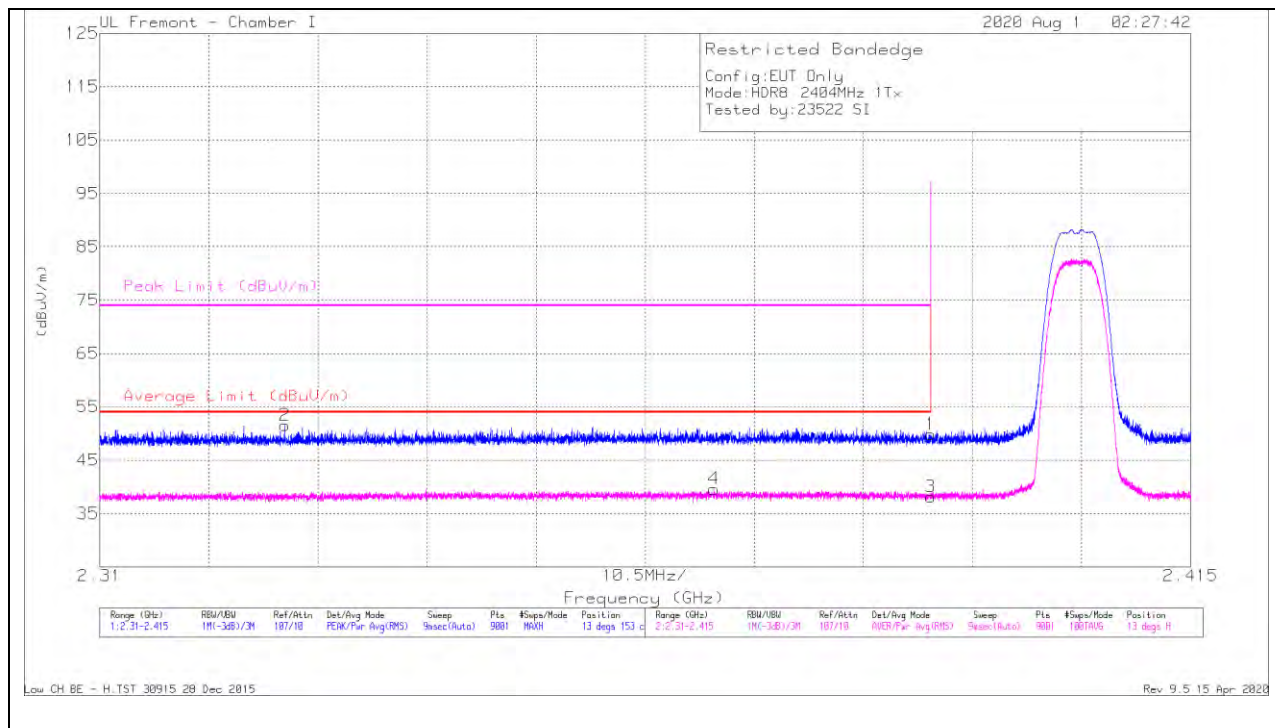
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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# **ANT 3**

## **BANDEDGE (LOW CHANNEL)**

### **HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.2                 | Pk  | 31.9           | -17.3                  | 49.8                       | -                      | -           | 74                  | -24.2          | 13             | 153         | H        |
| 2      | * 2.32783       | 37.22                | Pk  | 31.5           | -17.2                  | 51.52                      | -                      | -           | 74                  | -22.48         | 13             | 153         | H        |
| 3      | * 2.38999       | 23.54                | RMS | 31.9           | -17.3                  | 38.14                      | 54                     | -15.86      | -                   | -              | 13             | 153         | H        |
| 4      | * 2.36912       | 25.02                | RMS | 31.9           | -17.3                  | 39.62                      | 54                     | -14.38      | -                   | -              | 13             | 153         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

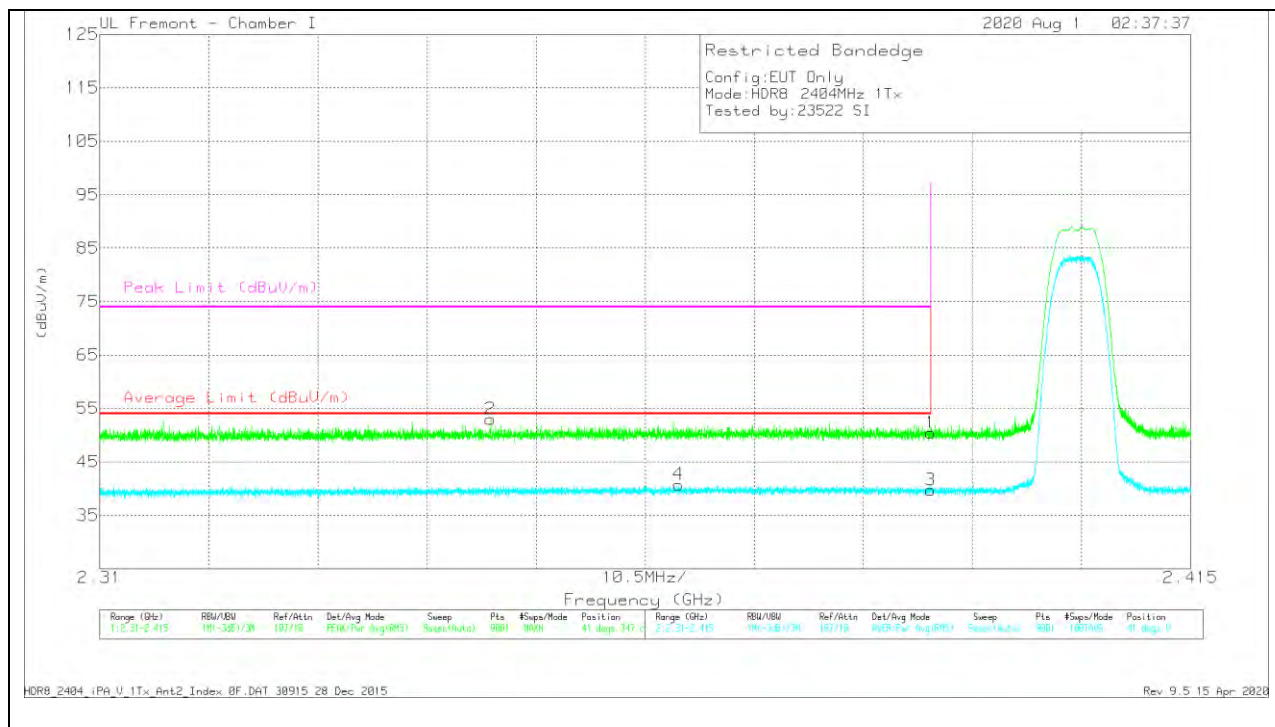
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.82                | Pk  | 31.9           | -17.3                  | 50.42                      | -                      | -           | 74                  | -23.58         | 41             | 347         | V        |
| 2      | * 2.34761       | 38.47                | Pk  | 31.7           | -17.2                  | 52.97                      | -                      | -           | 74                  | -21.03         | 41             | 347         | V        |
| 3      | * 2.38999       | 25.12                | RMS | 31.9           | -17.3                  | 39.72                      | 54                     | -14.28      | -                   | -              | 41             | 347         | V        |
| 4      | * 2.36572       | 26.24                | RMS | 31.8           | -17.3                  | 40.74                      | 54                     | -13.26      | -                   | -              | 41             | 347         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

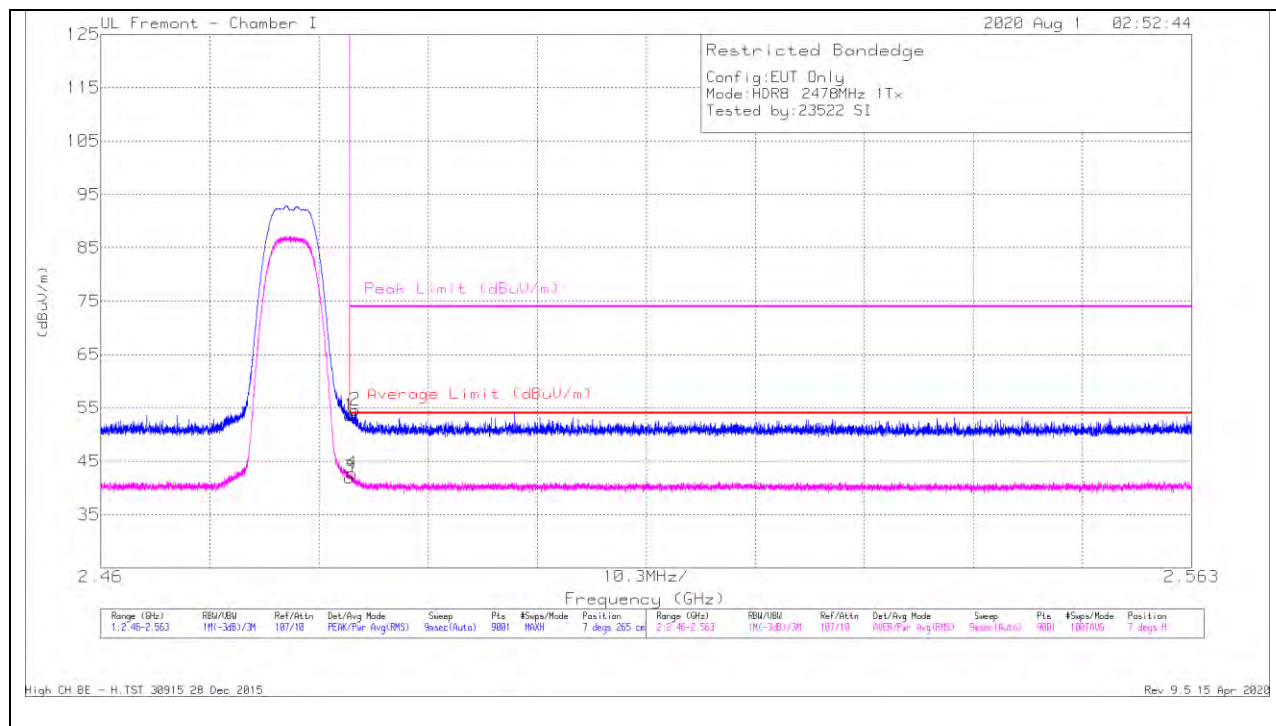
RMS - RMS detection

HDR8\_2404\_iPA\_V\_1Tx\_Ant2\_Index 0F.DAT 30915 28 Dec 2015

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 38.89                | Pk  | 32.4           | -17.7                  | 53.59                      | -                      | -           | 74                  | -20.41         | 7              | 265         | H        |
| 2      | * 2.48406       | 39.92                | Pk  | 32.4           | -17.7                  | 54.62                      | -                      | -           | 74                  | -19.38         | 7              | 265         | H        |
| 3      | * 2.48351       | 27.27                | RMS | 32.4           | -17.7                  | 41.97                      | 54                     | -12.03      | -                   | -              | 7              | 265         | H        |
| 4      | * 2.48371       | 28.06                | RMS | 32.4           | -17.7                  | 42.76                      | 54                     | -11.24      | -                   | -              | 7              | 265         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

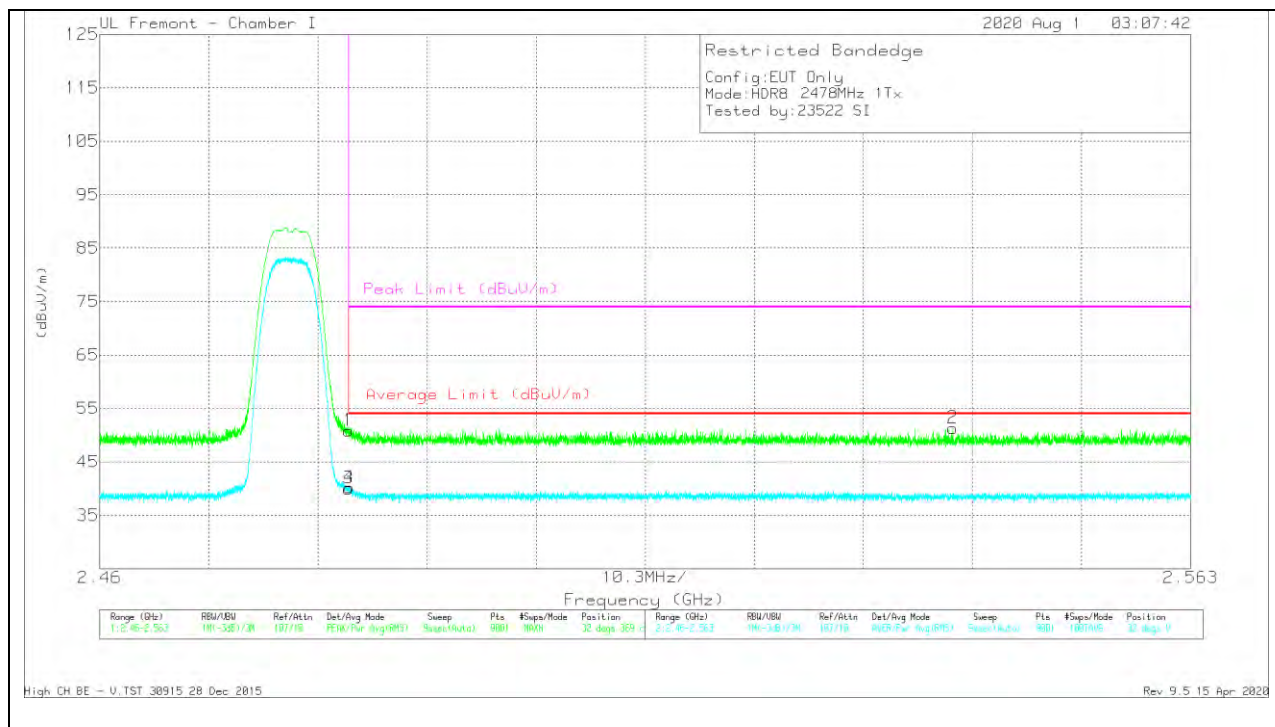
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



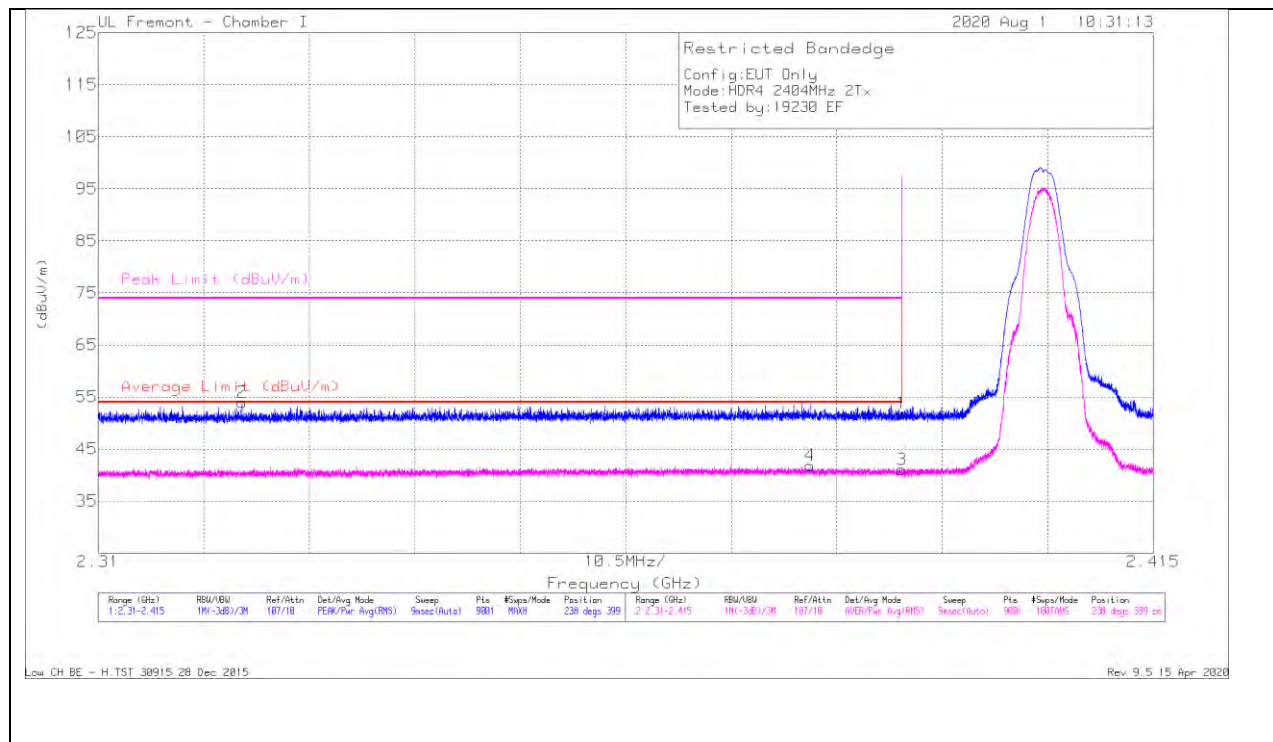
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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## 10.2.5. HIGH POWER HDR TXBF (HDR4)

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 37.23                | Pk  | 31.9           | -17.3                 | 51.83                      | -                      | -           | 74                  | -22.17         | 238            | 399         | H        |
| 2      | * 2.3243        | 39.66                | Pk  | 31.5           | -17.2                 | 53.96                      | -                      | -           | 74                  | -20.04         | 238            | 399         | H        |
| 3      | * 2.38999       | 26.45                | RMS | 31.9           | -17.3                 | 41.05                      | 54                     | -12.95      | -                   | -              | 238            | 399         | H        |
| 4      | * 2.38085       | 27.2                 | RMS | 31.9           | -17.3                 | 41.8                       | 54                     | -12.2       | -                   | -              | 238            | 399         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

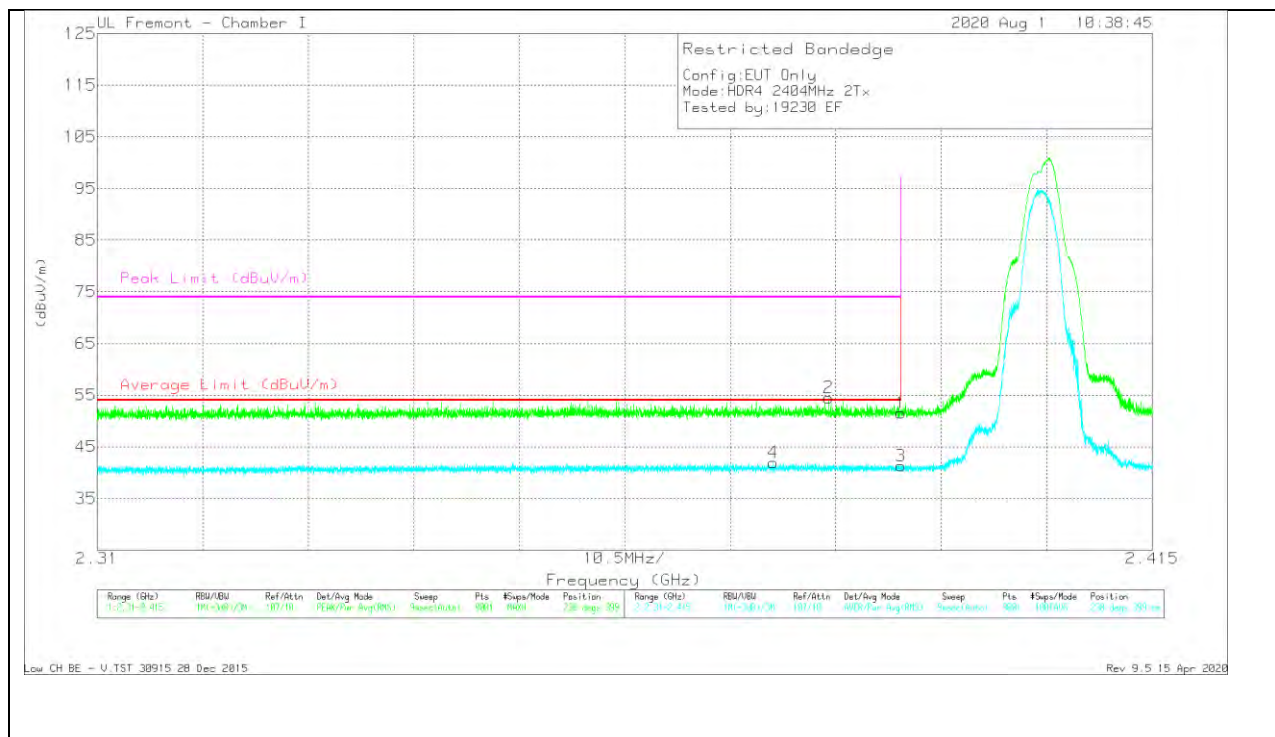
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T562 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 36.92                | Pk  | 31.9           | -17.3                | 51.52                      | -                      | -           | 74                  | -22.48         | 238            | 399         | V        |
| 2      | * 2.38277       | 39.89                | Pk  | 31.9           | -17.3                | 54.49                      | -                      | -           | 74                  | -19.51         | 238            | 399         | V        |
| 3      | * 2.38999       | 26.69                | RMS | 31.9           | -17.3                | 41.29                      | 54                     | -12.71      | -                   | -              | 238            | 399         | V        |
| 4      | * 2.37726       | 27.32                | RMS | 31.9           | -17.3                | 41.92                      | 54                     | -12.08      | -                   | -              | 238            | 399         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

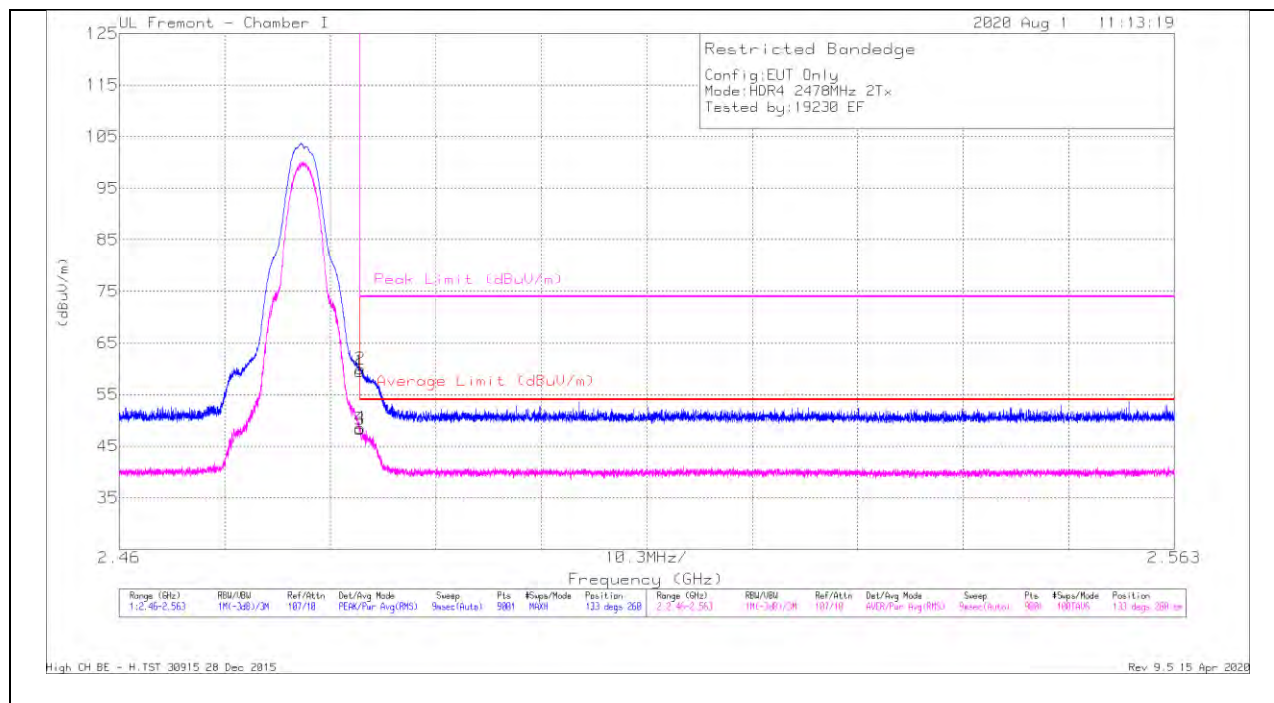
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Chl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 44.79                | Pk  | 32.4           | -17.7                  | 59.49                      | -                      | -           | 74                  | -14.51         | 133            | 260         | H        |
| 2      | * 2.48354       | 45.28                | Pk  | 32.4           | -17.7                  | 59.98                      | -                      | -           | 74                  | -14.02         | 133            | 260         | H        |
| 3      | * 2.48351       | 33.59                | RMS | 32.4           | -17.7                  | 48.29                      | 54                     | -5.71       | -                   | -              | 133            | 260         | H        |
| 4      | * 2.48352       | 33.82                | RMS | 32.4           | -17.7                  | 48.52                      | 54                     | -5.48       | -                   | -              | 133            | 260         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

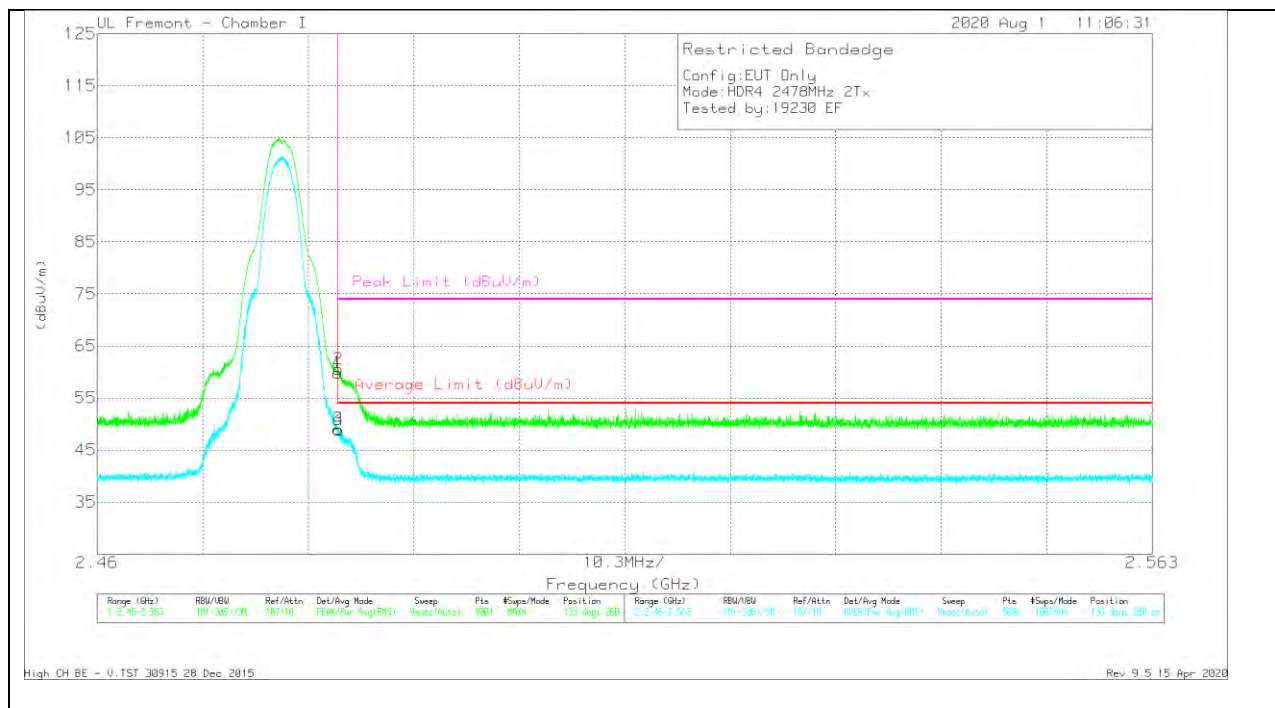
PK - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 45.17                | Pk  | 32.4           | -17.7                 | 59.87                      | -                      | -           | 74                  | -14.13         | 133            | 260         | V        |
| 2      | * 2.48355       | 45.83                | Pk  | 32.4           | -17.7                 | 60.53                      | -                      | -           | 74                  | -13.47         | 133            | 260         | V        |
| 3      | * 2.48351       | 34.3                 | RMS | 32.4           | -17.7                 | 49                         | 54                     | -5          | -                   | -              | 133            | 260         | V        |
| 4      | * 2.48359       | 34.19                | RMS | 32.4           | -17.7                 | 48.89                      | 54                     | -5.11       | -                   | -              | 133            | 260         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

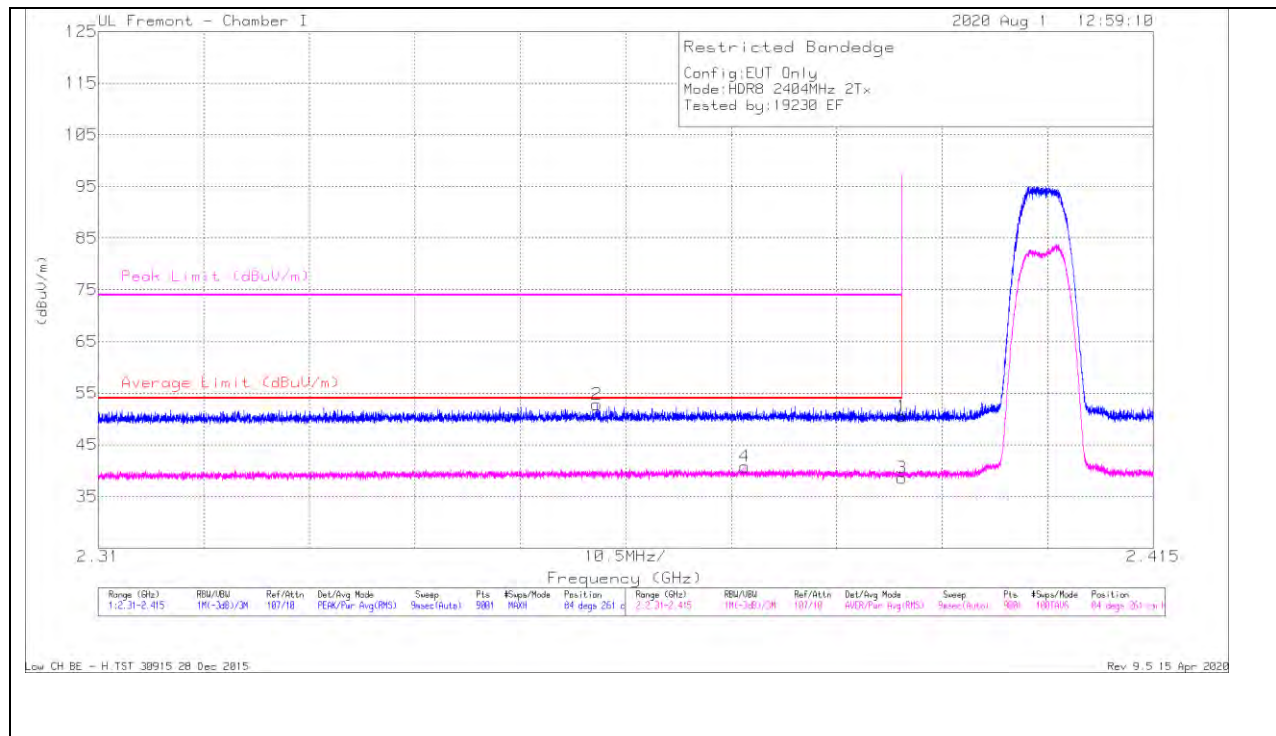
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## 10.2.6. HIGH POWER HDR TXBF (HDR8)

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.93                | Pk  | 31.9           | -17.3                  | 50.53                      | -                      | -           | 74                  | -23.47         | 84             | 261         | H        |
| 2      | * 2.35962       | 38.33                | Pk  | 31.8           | -17.3                  | 52.83                      | -                      | -           | 74                  | -21.17         | 84             | 261         | H        |
| 3      | * 2.38999       | 23.98                | RMS | 31.9           | -17.3                  | 38.58                      | 54                     | -15.42      | -                   | -              | 84             | 261         | H        |
| 4      | * 2.37434       | 26.17                | RMS | 31.9           | -17.3                  | 40.77                      | 54                     | -13.23      | -                   | -              | 84             | 261         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

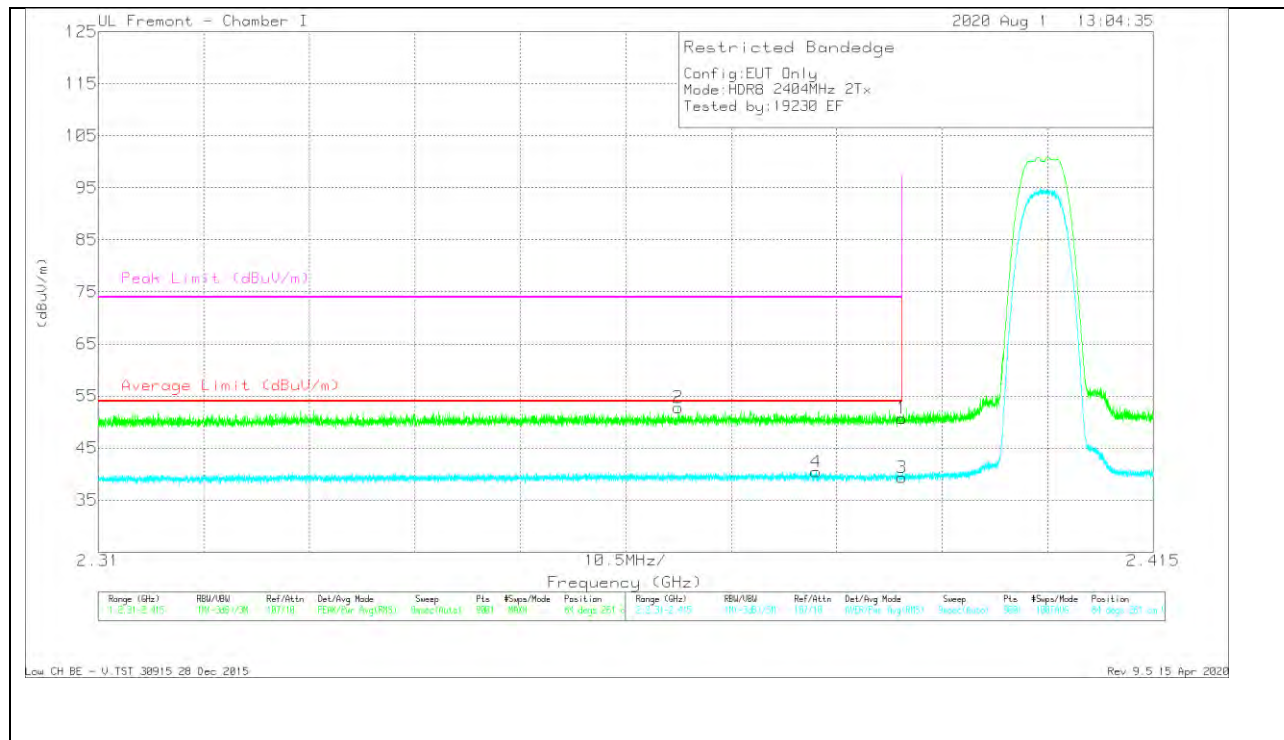
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 36.11                | Pk  | 31.9           | -17.3                  | 50.71                      | -                      | -           | 74                  | -23.29         | 84             | 261         | V        |
| 2      | * 2.36773       | 38.19                | Pk  | 31.9           | -17.3                  | 52.79                      | -                      | -           | 74                  | -21.21         | 84             | 261         | V        |
| 3      | * 2.38999       | 24.74                | RMS | 31.9           | -17.3                  | 39.34                      | 54                     | -14.66      | -                   | -              | 84             | 261         | V        |
| 4      | * 2.38145       | 25.84                | RMS | 31.9           | -17.3                  | 40.44                      | 54                     | -13.56      | -                   | -              | 84             | 261         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

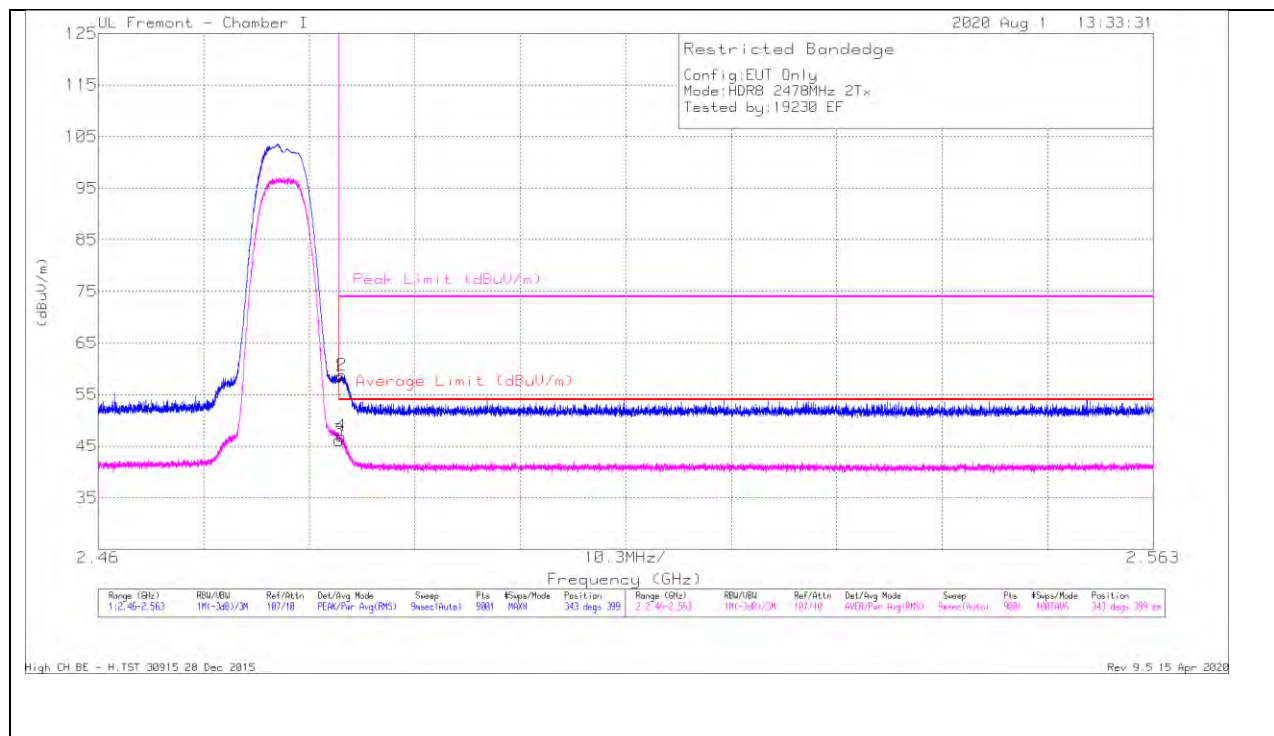
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 43.79                | Pk  | 32.4           | -17.7                  | 58.49                      | -                      | -           | 74                  | -15.51         | 343            | 399         | H        |
| 2      | * 2.4838        | 44.07                | Pk  | 32.4           | -17.7                  | 58.77                      | -                      | -           | 74                  | -15.23         | 343            | 399         | H        |
| 3      | * 2.48351       | 31.43                | RMS | 32.4           | -17.7                  | 46.13                      | 54                     | -7.87       | -                   | -              | 343            | 399         | H        |
| 4      | * 2.48371       | 32.26                | RMS | 32.4           | -17.7                  | 46.96                      | 54                     | -7.04       | -                   | -              | 343            | 399         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

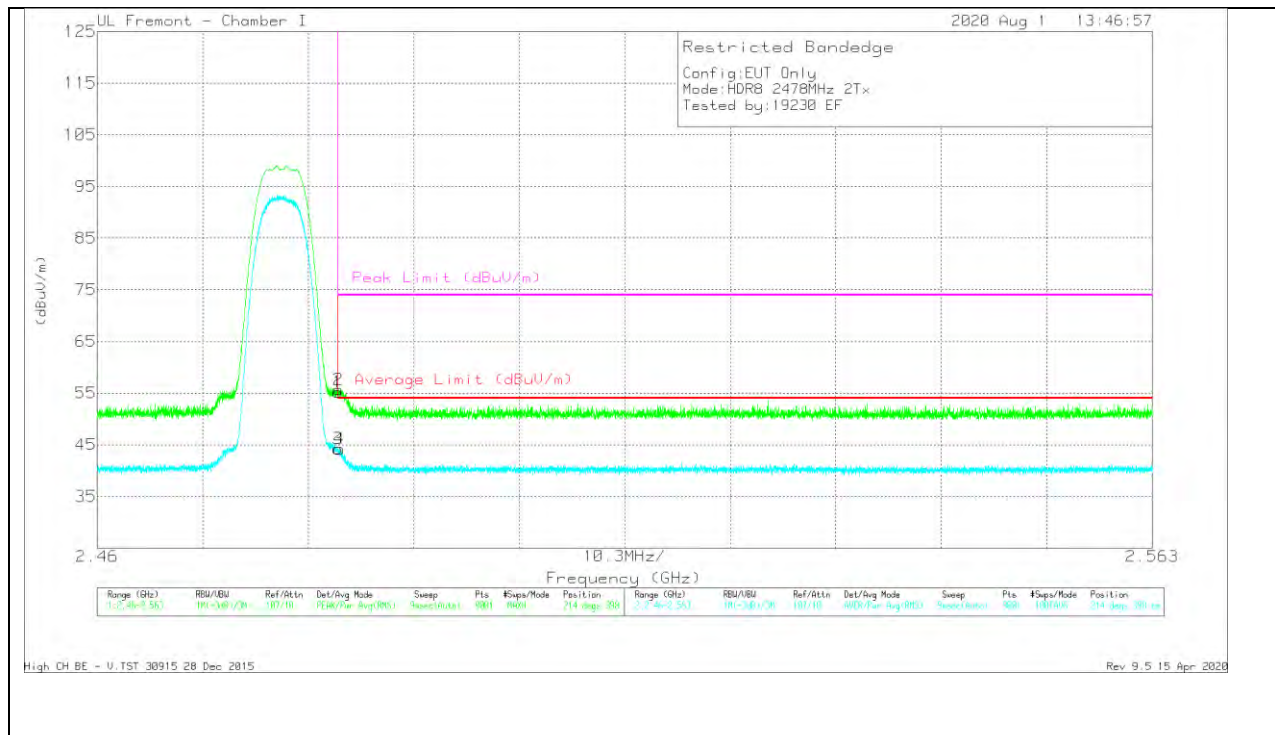
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.48                | Pk  | 32.4           | -17.7                 | 55.18                      | -                      | -           | 74                  | -18.82         | 214            | 398         | V        |
| 2      | * 2.48353       | 40.98                | Pk  | 32.4           | -17.7                 | 55.68                      | -                      | -           | 74                  | -18.32         | 214            | 398         | V        |
| 3      | * 2.48351       | 29.5                 | RMS | 32.4           | -17.7                 | 44.2                       | 54                     | -9.8        | -                   | -              | 214            | 398         | V        |
| 4      | * 2.48364       | 29.48                | RMS | 32.4           | -17.7                 | 44.18                      | 54                     | -9.82       | -                   | -              | 214            | 398         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

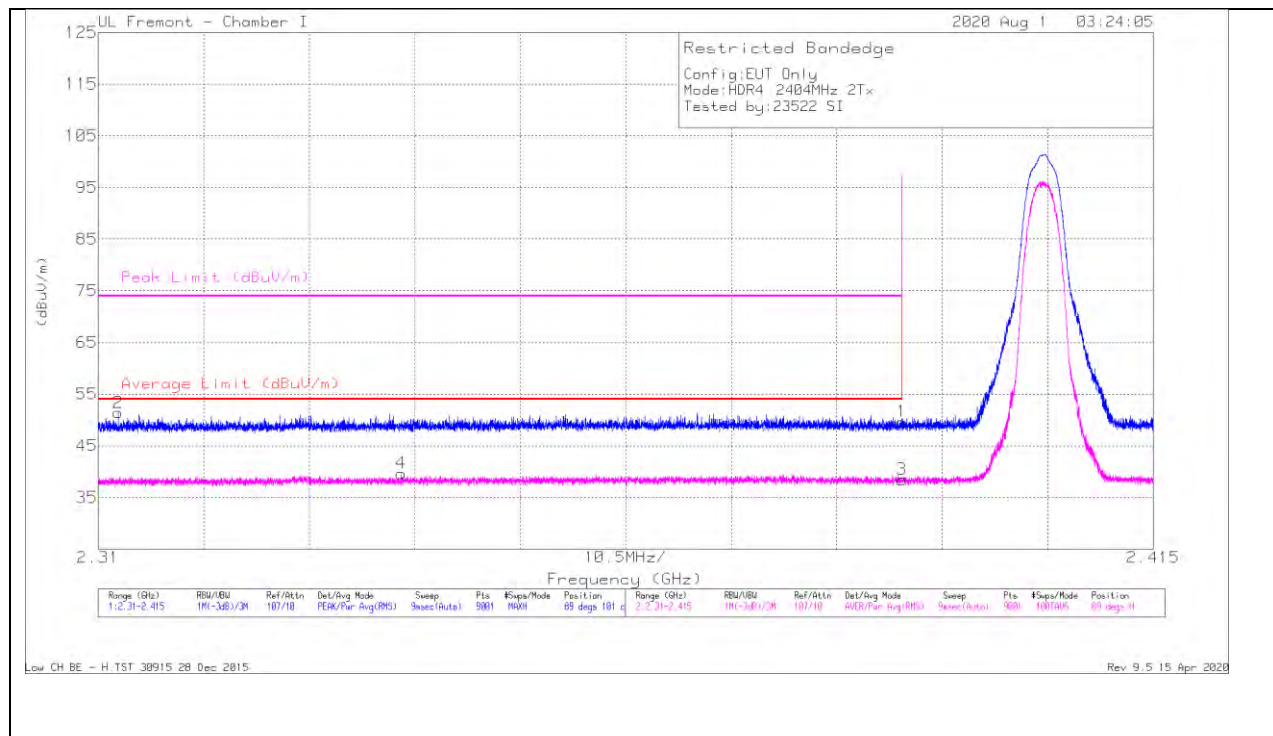
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## 10.2.7. LOW POWER HDR TXBF (HDR4)

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT

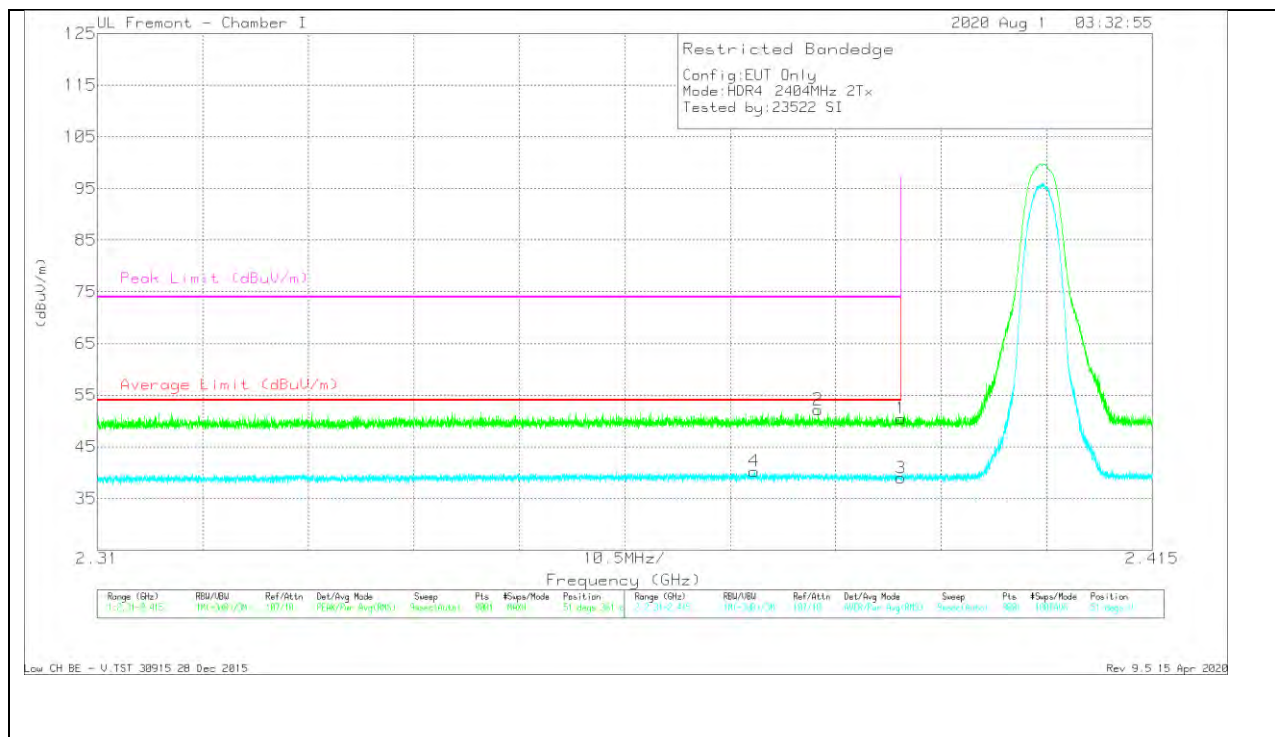


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.05                | Pk  | 31.9           | -17.3                 | 49.65                      | -                      | -           | 74                  | -24.35         | 89             | 101         | H        |
| 2      | * 2.31197       | 37.19                | Pk  | 31.4           | -17.2                 | 51.39                      | -                      | -           | 74                  | -22.61         | 89             | 101         | H        |
| 3      | * 2.38999       | 23.85                | RMS | 31.9           | -17.3                 | 38.45                      | 54                     | -15.55      | -                   | -              | 89             | 101         | H        |
| 4      | * 2.34016       | 25.26                | RMS | 31.6           | -17.2                 | 39.66                      | 54                     | -14.34      | -                   | -              | 89             | 101         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
Pk - Peak detector  
RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T562 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.9                 | Pk  | 31.9           | -17.3                | 50.5                       | -                      | -           | 74                  | -23.5          | 51             | 361         | V        |
| 2      | * 2.38173       | 37.56                | Pk  | 31.9           | -17.3                | 52.16                      | -                      | -           | 74                  | -21.84         | 51             | 361         | V        |
| 3      | * 2.38999       | 24.39                | RMS | 31.9           | -17.3                | 38.99                      | 54                     | -15.01      | -                   | -              | 51             | 361         | V        |
| 4      | * 2.37538       | 25.66                | RMS | 31.9           | -17.3                | 40.26                      | 54                     | -13.74      | -                   | -              | 51             | 361         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

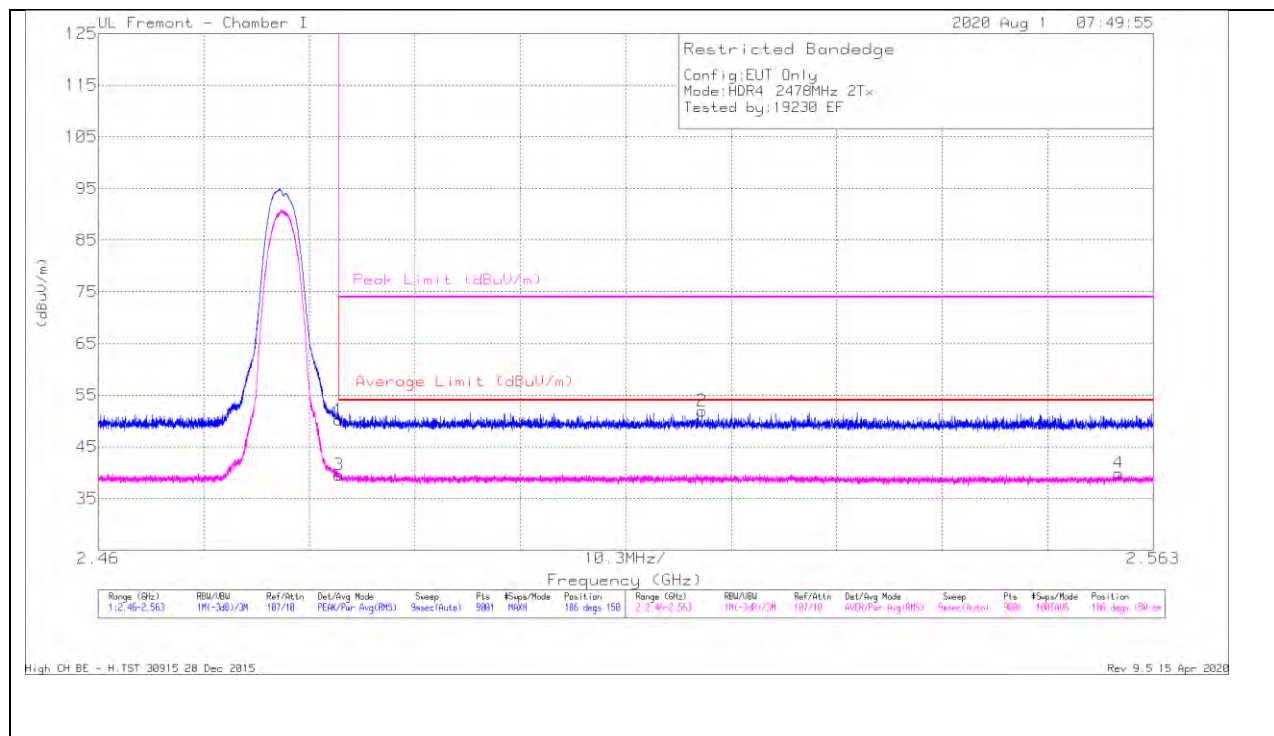
RMS - RMS detection

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## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 35.51                | Pk  | 32.4           | -17.7                  | 50.21                      | -                      | -           | 74                  | -23.79         | 186            | 150         | H        |
| 2      | 2.51893         | 37.45                | Pk  | 32.3           | -17.8                  | 51.95                      | -                      | -           | 74                  | -22.05         | 186            | 150         | H        |
| 3      | * 2.48351       | 24.85                | RMS | 32.4           | -17.7                  | 39.55                      | 54                     | -14.45      | -                   | -              | 186            | 150         | H        |
| 4      | 2.55962         | 25.4                 | RMS | 32.3           | -17.8                  | 39.9                       | 54                     | -14.1       | -                   | -              | 186            | 150         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

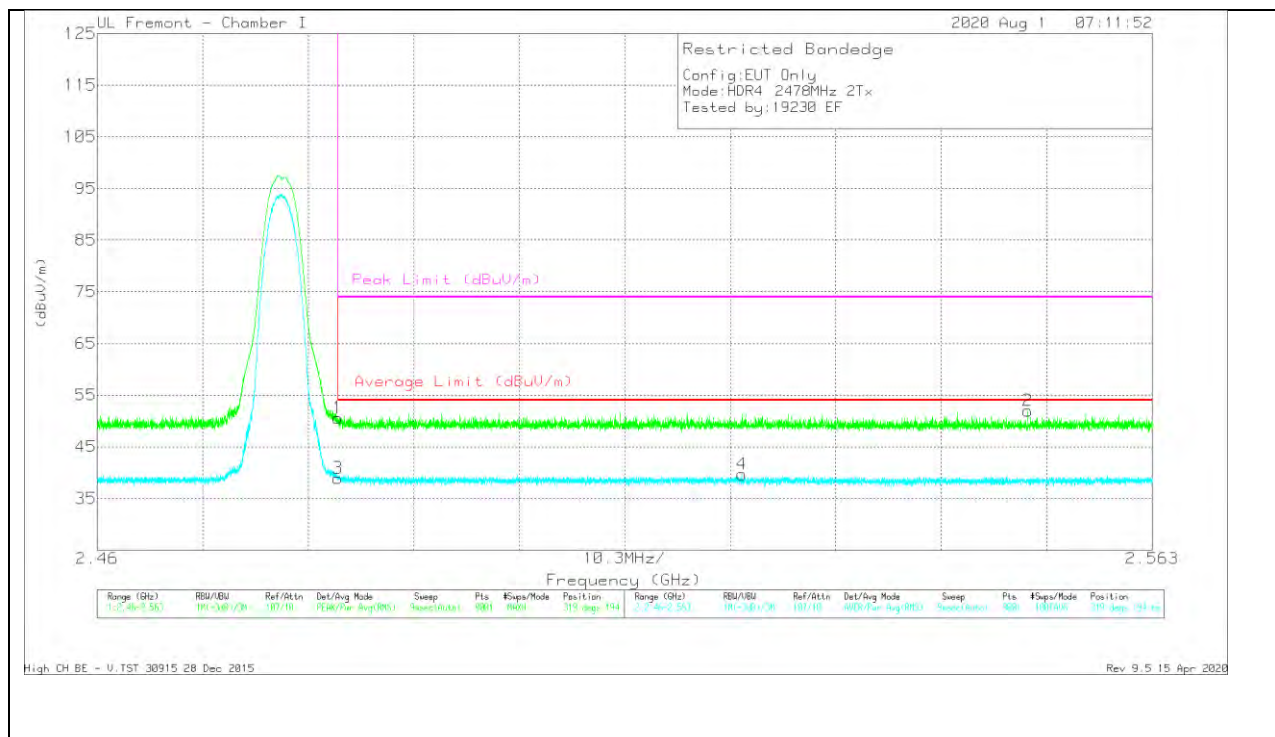
Pk - Peak detector

RMS - RMS detection

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## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T562 (dB/m) | Amp/Cbl/Ftr/Psd (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 35.88                | Pk  | 32.4           | -17.7                | 50.58                      | -                      | -           | 74                  | -23.42         | 319            | 194         | V        |
| 2      | 2.55083         | 37.47                | Pk  | 32.3           | -17.8                | 51.97                      | -                      | -           | 74                  | -22.03         | 319            | 194         | V        |
| 3      | * 2.48351       | 24.21                | RMS | 32.4           | -17.7                | 38.91                      | 54                     | -15.09      | -                   | -              | 319            | 194         | V        |
| 4      | 2.52292         | 25.17                | RMS | 32.3           | -17.8                | 39.67                      | 54                     | -14.33      | -                   | -              | 319            | 194         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

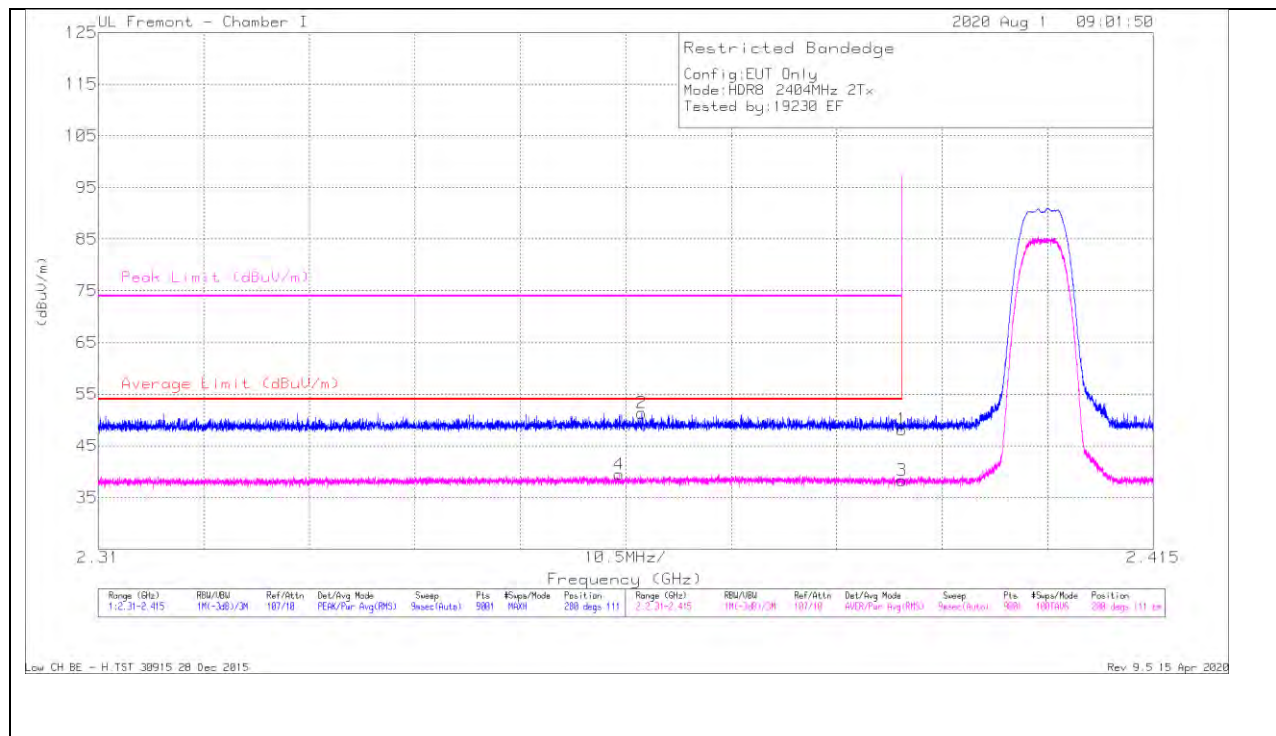
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## 10.2.8. LOW POWER HDR TXBF (HDR8)

### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Ftr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 33.58                | Pk  | 31.9           | -17.3                 | 48.18                      | -                      | -           | 74                  | -25.82         | 280            | 111         | H        |
| 2      | * 2.36408       | 36.86                | Pk  | 31.8           | -17.3                 | 51.36                      | -                      | -           | 74                  | -22.64         | 280            | 111         | H        |
| 3      | * 2.38999       | 23.69                | RMS | 31.9           | -17.3                 | 38.29                      | 54                     | -15.71      | -                   | -              | 280            | 111         | H        |
| 4      | * 2.36185       | 24.98                | RMS | 31.8           | -17.3                 | 39.48                      | 54                     | -14.52      | -                   | -              | 280            | 111         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

Low CH BE - H.TST 30915 28 Dec 2015

Rev 9.5 15 Apr 2020

UL Fremont - Chamber I

2020 Aug 1 09:14:15

Restricted Bandedge

Config: EUT Only  
Mode: HDR8 2404MHz 2Tx  
Tested by: 19230 EF

Peak Limit (dBuV/m)

Average Limit (dBuV/m)

dBuV/m

Frequency (GHz)

10.5MHz/

2.31 2.415

| Range (GHz) | RBW/ABW    | Ref/Att | Det/AvG Mode       | Sweep          | Pls  | #Sps/Mode | Position      | Range (GHz) | RBW/ABW    | Ref/Att | Det/AvG Mode       | Sweep          | Pls  | #Sps/Mode | Position         |
|-------------|------------|---------|--------------------|----------------|------|-----------|---------------|-------------|------------|---------|--------------------|----------------|------|-----------|------------------|
| 1.250-3.415 | 100-300/10 | -107.10 | PEAK/PSR Avg (RMS) | Normal (0.001) | 5001 | 10000     | 200 steps (1) | 2.31-2.415  | 100-300/10 | -107.10 | PEAK/PSR Avg (RMS) | Normal (0.001) | 5001 | 10000     | 200 steps (1) on |

Low CH BE - U.TST.30915.28 Dec 2015

Rev 9.5 15 Apr 2020

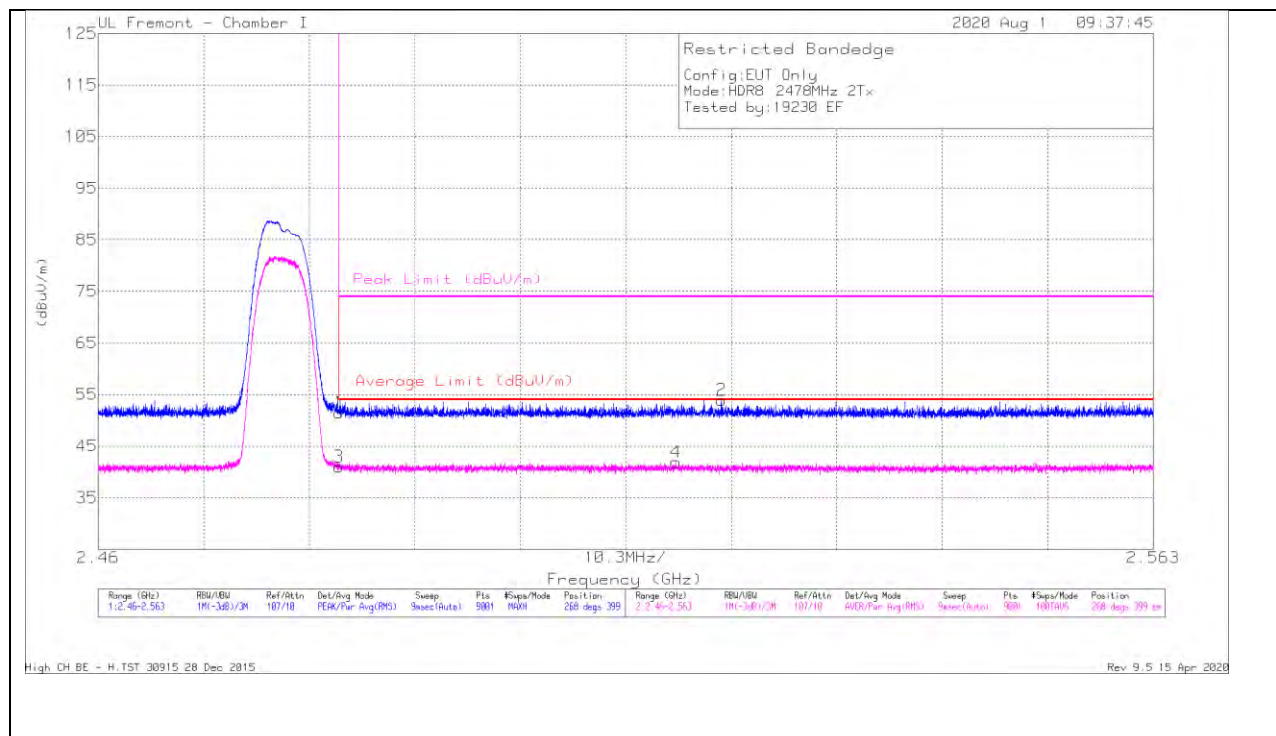
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 1862 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.38999       | 35.15                | Pk  | 31.9           | -17.3                   | 49.75                      | -                      | -           | 74                  | -24.25         | 280            | 111         | V        |
| 2      | * 2.36779       | 37.27                | Pk  | 31.9           | -17.3                   | 51.87                      | -                      | -           | 74                  | -22.13         | 280            | 111         | V        |
| 3      | * 2.38999       | 23.5                 | RMS | 31.9           | -17.3                   | 38.1                       | 54                     | -15.9       | -                   | -              | 280            | 111         | V        |
| 4      | * 2.37695       | 24.87                | RMS | 31.9           | -17.3                   | 39.47                      | 54                     | -14.53      | -                   | -              | 280            | 111         | V        |

Pk - Peak detector  
RMS - RMS detection

Low CH BE - V.TST 30915 28 Dec 2015  
Rev 9.5 15 Apr 2020

## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 36.77                | Pk  | 32.4           | -17.7                  | 51.47                      | -                      | -           | 74                  | -22.53         | 268            | 399         | H        |
| 2      | 2.52086         | 39.39                | Pk  | 32.3           | -17.8                  | 53.89                      | -                      | -           | 74                  | -20.11         | 268            | 399         | H        |
| 3      | * 2.48351       | 26.27                | RMS | 32.4           | -17.7                  | 40.97                      | 54                     | -13.03      | -                   | -              | 268            | 399         | H        |
| 4      | 2.5164          | 27.27                | RMS | 32.4           | -17.8                  | 41.87                      | 54                     | -12.13      | -                   | -              | 268            | 399         | H        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

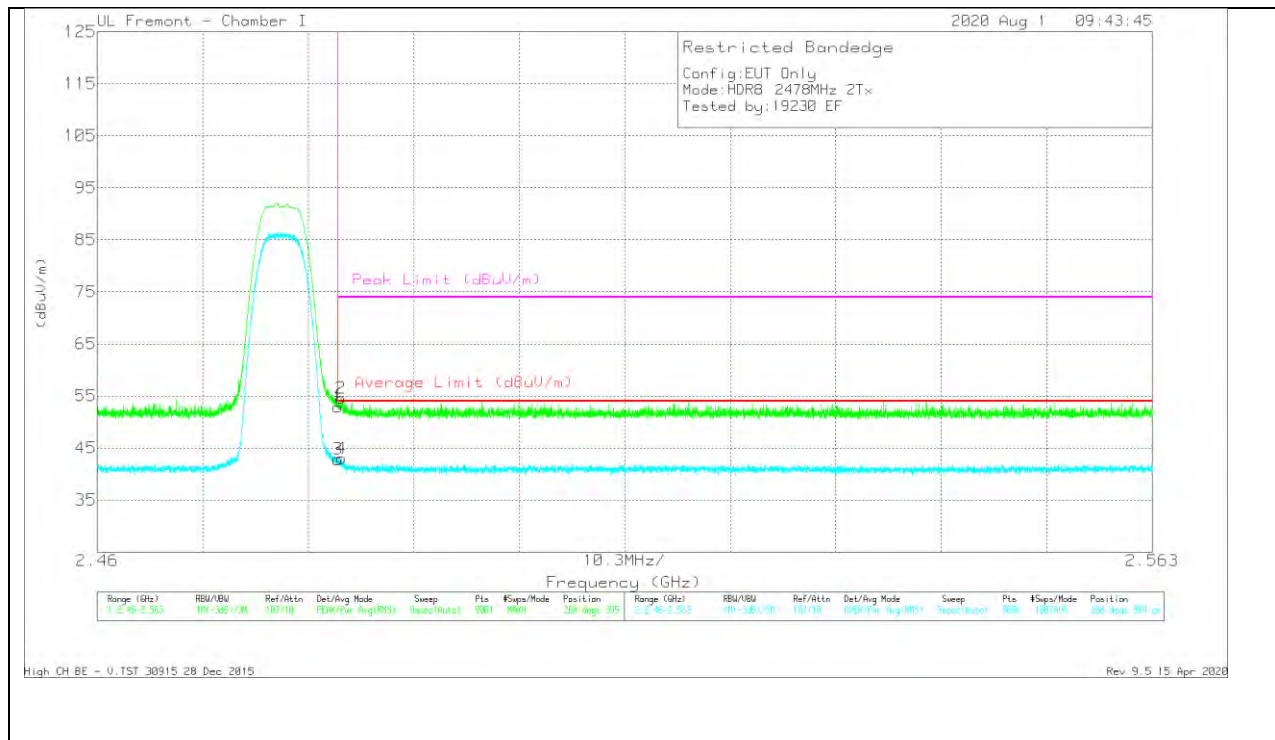
Pk - Peak detector

RMS - RMS detection

High CH BE - H.TST 30915 28 Dec 2015

Rev 9.5 15 Apr 2020

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T862 (dB/m) | Amp/Cbl/Filt/Pa d (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 38.19                | Pk  | 32.4           | -17.7                  | 52.89                      | -                      | -           | 74                  | -21.11         | 268            | 399         | V        |
| 2      | * 2.4838        | 39.87                | Pk  | 32.4           | -17.7                  | 54.57                      | -                      | -           | 74                  | -19.43         | 268            | 399         | V        |
| 3      | * 2.48351       | 28.14                | RMS | 32.4           | -17.7                  | 42.84                      | 54                     | -11.16      | -                   | -              | 268            | 399         | V        |
| 4      | * 2.48385       | 28.29                | RMS | 32.4           | -17.7                  | 42.99                      | 54                     | -11.01      | -                   | -              | 268            | 399         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

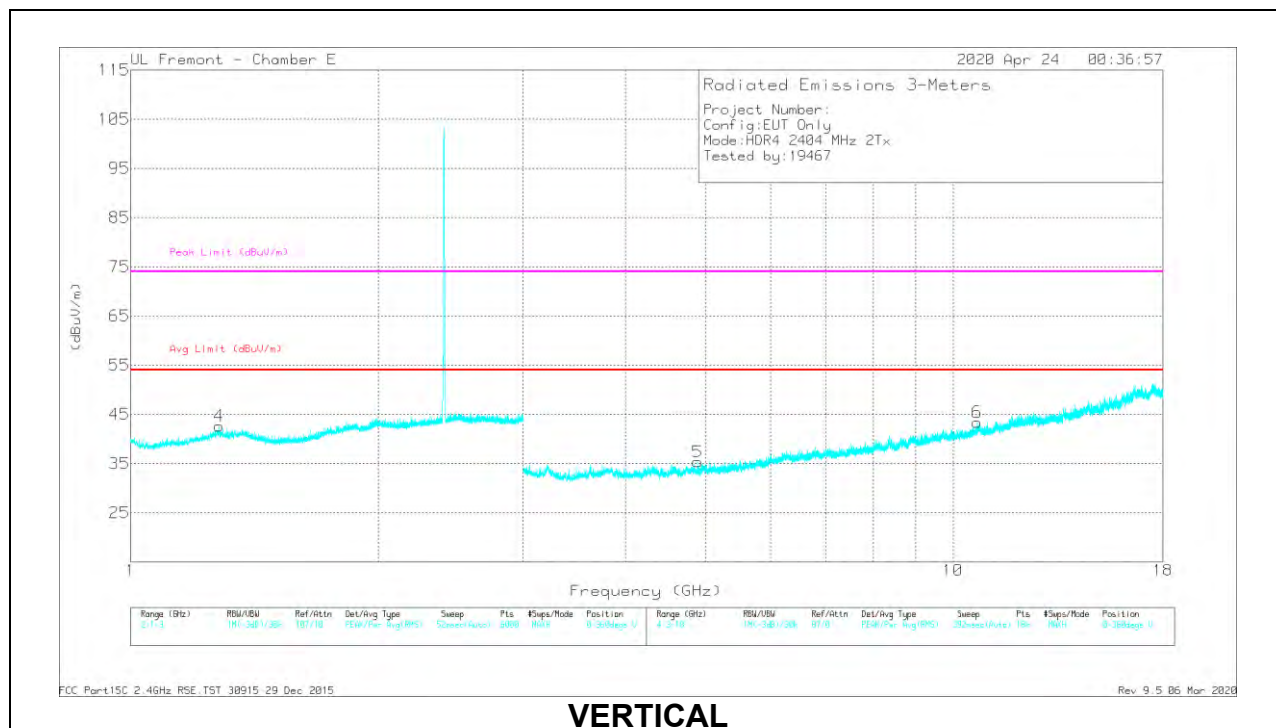
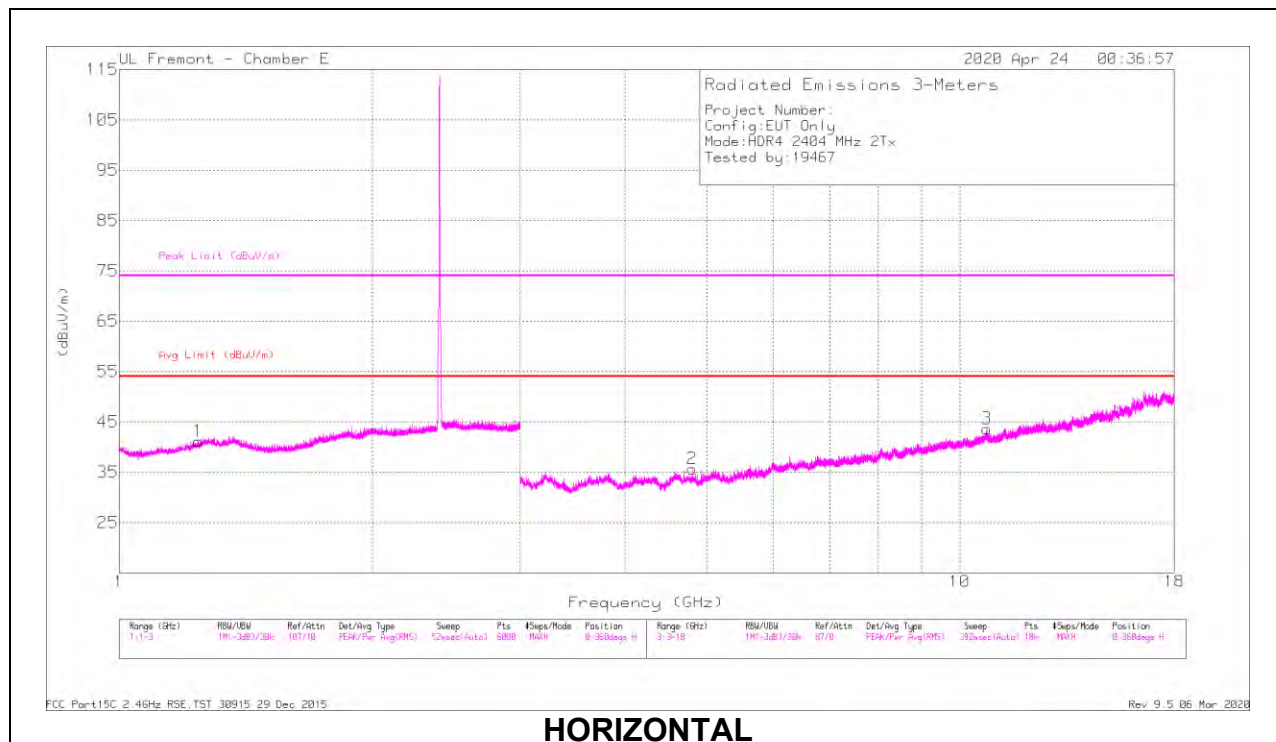
RMS - RMS detection

High CH BE - V.TST 30915 28 Dec 2015

Rev 9.5 15 Apr 2020

## 10.2.9. 2TX BF HDR4, HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

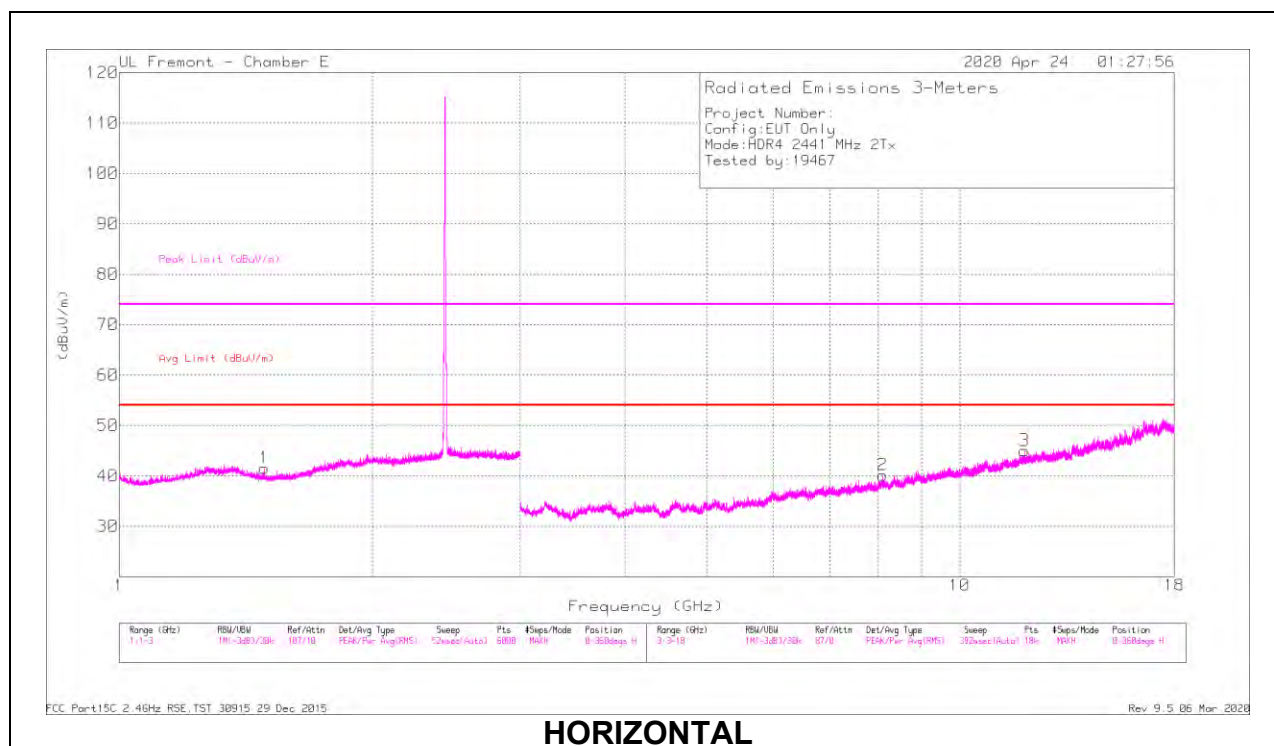
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T712 (dB/m) | Amp/Cbl/Filtr/P ad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 1.24172       | 45.03                | PK2  | 29             | -26.3                   | 47.73                      | -                  | -           | 74                  | -26.27         | 65             | 200         | H        |
|        | * 1.2411        | 33.95                | MAv1 | 29             | -26.3                   | 36.65                      | 54                 | -17.35      | -                   | -              | 65             | 200         | H        |
| 4      | * 1.2814        | 45.64                | PK2  | 29.7           | -26.3                   | 49.04                      | -                  | -           | 74                  | -24.96         | 124            | 200         | V        |
|        | * 1.27921       | 33.94                | MAv1 | 29.7           | -26.3                   | 37.34                      | 54                 | -16.66      | -                   | -              | 124            | 200         | V        |
| 2      | * 4.80805       | 40.1                 | PK2  | 34.2           | -31.8                   | 42.5                       | -                  | -           | 74                  | -31.5          | 306            | 101         | H        |
|        | * 4.80776       | 29.5                 | MAv1 | 34.2           | -31.8                   | 31.9                       | 54                 | -22.1       | -                   | -              | 306            | 101         | H        |
| 3      | * 10.7744       | 36.22                | PK2  | 37.8           | -24.3                   | 49.72                      | -                  | -           | 74                  | -24.28         | 88             | 101         | H        |
|        | * 10.77732      | 25.49                | MAv1 | 37.7           | -24.3                   | 38.89                      | 54                 | -15.11      | -                   | -              | 88             | 101         | H        |
| 5      | * 4.8939        | 38.76                | PK2  | 34.1           | -31.2                   | 41.66                      | -                  | -           | 74                  | -32.34         | 221            | 101         | V        |
|        | * 4.89302       | 28.05                | MAv1 | 34.1           | -31.2                   | 30.95                      | 54                 | -23.05      | -                   | -              | 221            | 101         | V        |
| 6      | * 10.69369      | 37.2                 | PK2  | 37.8           | -25.5                   | 49.5                       | -                  | -           | 74                  | -24.5          | 196            | 199         | V        |
|        | * 10.69434      | 25.82                | MAv1 | 37.8           | -25.5                   | 38.12                      | 54                 | -15.88      | -                   | -              | 196            | 199         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

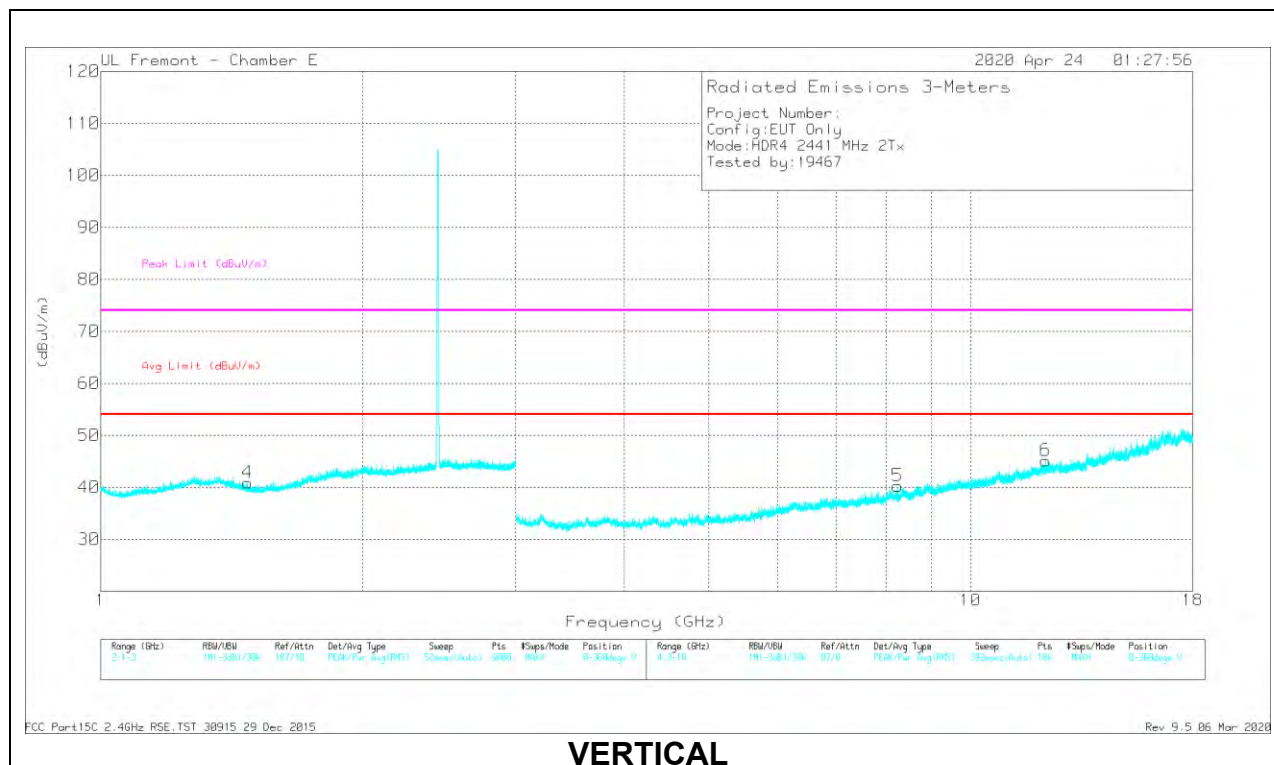
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

## MID CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

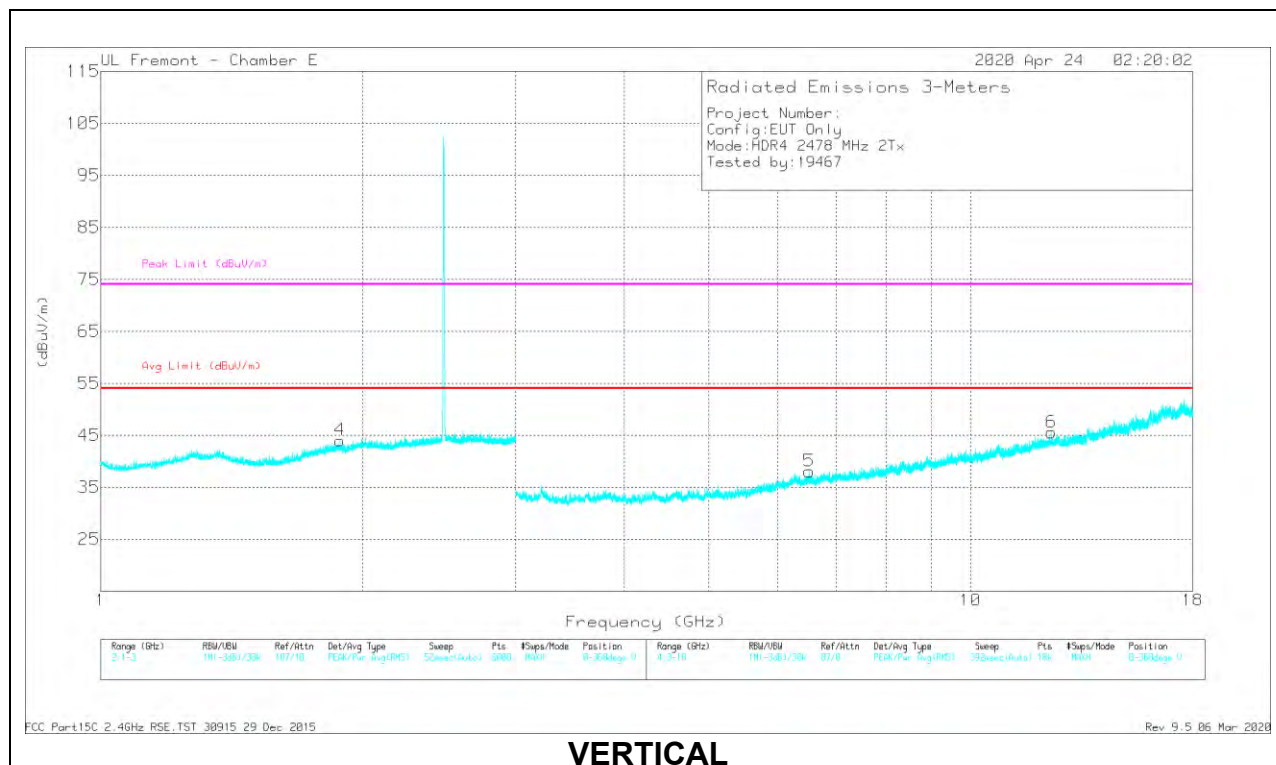
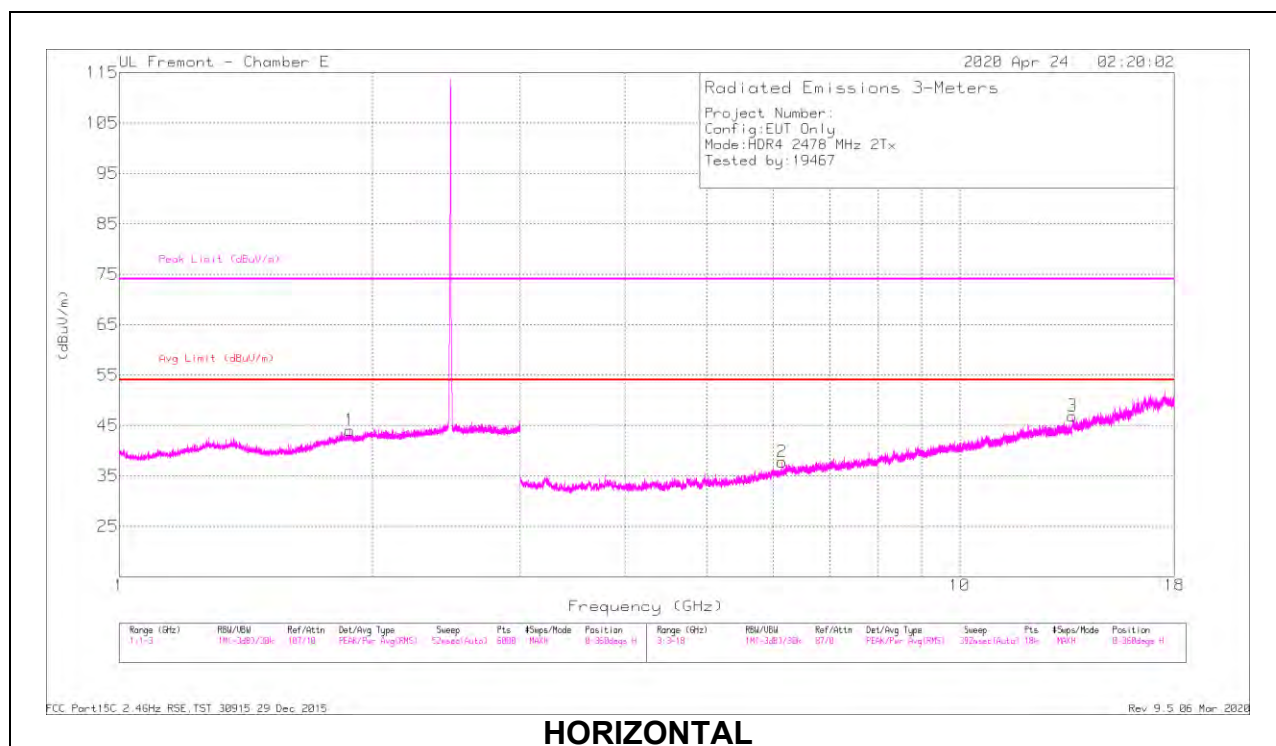
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AFT712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 1.48609       | 46.24                | PK2  | 28.3          | -26.4                  | 48.14                      | -                  | -           | 74                  | -25.86         | 115            | 224         | H        |
|        | * 1.48797       | 34.04                | MAv1 | 28.3          | -26.4                  | 35.94                      | 54                 | -18.06      | -                   | -              | 115            | 224         | H        |
| 4      | * 1.47402       | 45.4                 | PK2  | 28.3          | -26.4                  | 47.3                       | -                  | -           | 74                  | -26.7          | 260            | 141         | V        |
|        | * 1.47395       | 33.96                | MAv1 | 28.3          | -26.4                  | 35.86                      | 54                 | -18.14      | -                   | -              | 260            | 141         | V        |
| 2      | * 8.09932       | 37.58                | PK2  | 35.8          | -27.4                  | 45.98                      | -                  | -           | 74                  | -28.02         | 242            | 107         | H        |
|        | * 8.0996        | 26.32                | MAv1 | 35.8          | -27.4                  | 34.72                      | 54                 | -19.28      | -                   | -              | 242            | 107         | H        |
| 3      | * 11.93781      | 35.5                 | PK2  | 38.5          | -23.2                  | 50.8                       | -                  | -           | 74                  | -23.2          | 147            | 214         | H        |
|        | * 11.939        | 24.27                | MAv1 | 38.6          | -23.2                  | 39.67                      | 54                 | -14.33      | -                   | -              | 147            | 214         | H        |
| 5      | * 8.24446       | 37.73                | PK2  | 35.9          | -27.7                  | 45.93                      | -                  | -           | 74                  | -28.07         | 290            | 130         | V        |
|        | * 8.24503       | 26.24                | MAv1 | 35.9          | -27.7                  | 34.44                      | 54                 | -19.56      | -                   | -              | 290            | 130         | V        |
| 6      | * 12.19935      | 37.27                | PK2  | 38.8          | -23.2                  | 52.87                      | -                  | -           | 74                  | -21.13         | 56             | 199         | V        |
|        | * 12.19951      | 25.79                | MAv1 | 38.8          | -23.2                  | 41.39                      | 54                 | -12.61      | -                   | -              | 56             | 199         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

## HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T712 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|----------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 6      | * 12.39071      | 36.69                | PK2  | 38.9           | -23.2                  | 52.39                      | -                  | -           | 74                  | -21.61         | 167            | 101         | V        |
|        | * 12.39021      | 26.3                 | MAv1 | 38.9           | -23.2                  | 42                         | 54                 | -12         | -                   | -              | 167            | 101         | V        |
| 1      | 1.87797         | 45.61                | PK2  | 31.1           | -26.5                  | 50.21                      | -                  | -           | -                   | -              | 302            | 165         | H        |
| 4      | 1.88344         | 46.33                | PK2  | 31             | -26.5                  | 50.83                      | -                  | -           | -                   | -              | 312            | 156         | V        |
| 2      | 6.14521         | 40.39                | PK2  | 35.4           | -30                    | 45.79                      | -                  | -           | -                   | -              | 58             | 400         | H        |
| 5      | 6.52579         | 37.58                | PK2  | 35.7           | -28.5                  | 44.78                      | -                  | -           | -                   | -              | 167            | 268         | V        |
| 3      | 13.62473        | 36.21                | PK2  | 38.6           | -21.8                  | 53.01                      | -                  | -           | -                   | -              | 97             | 268         | H        |

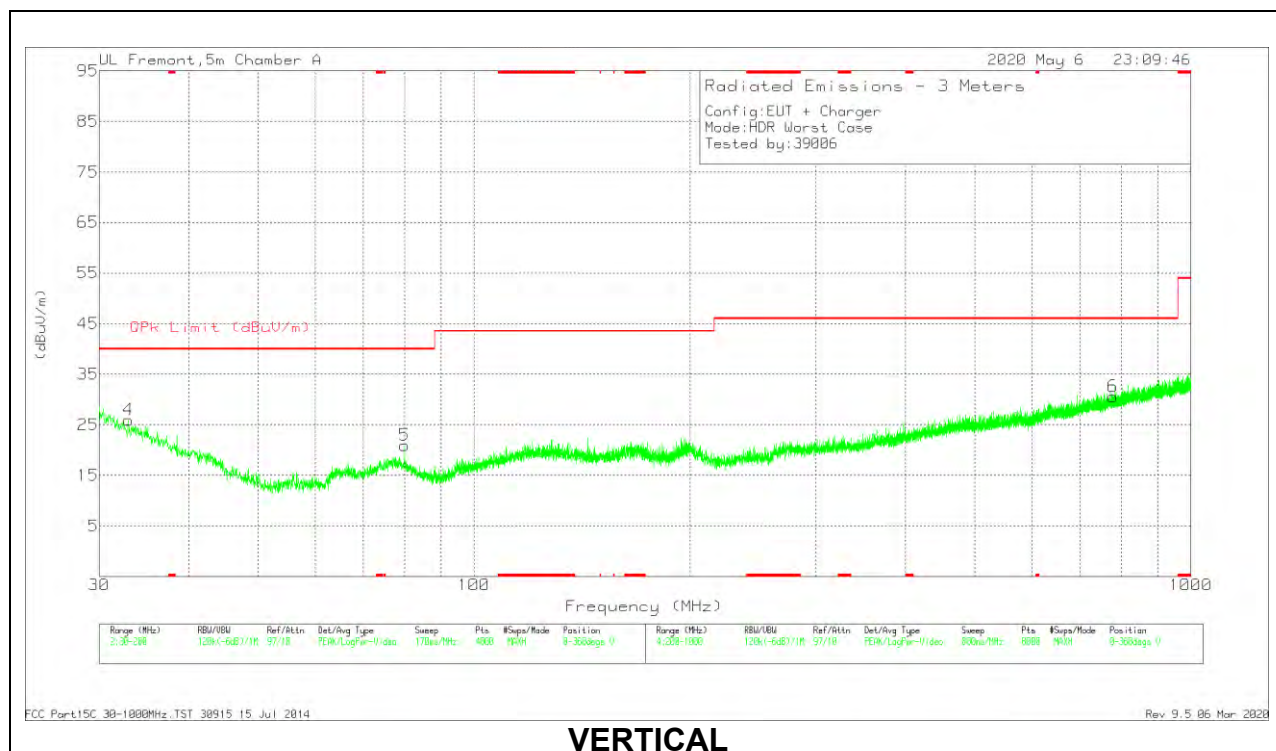
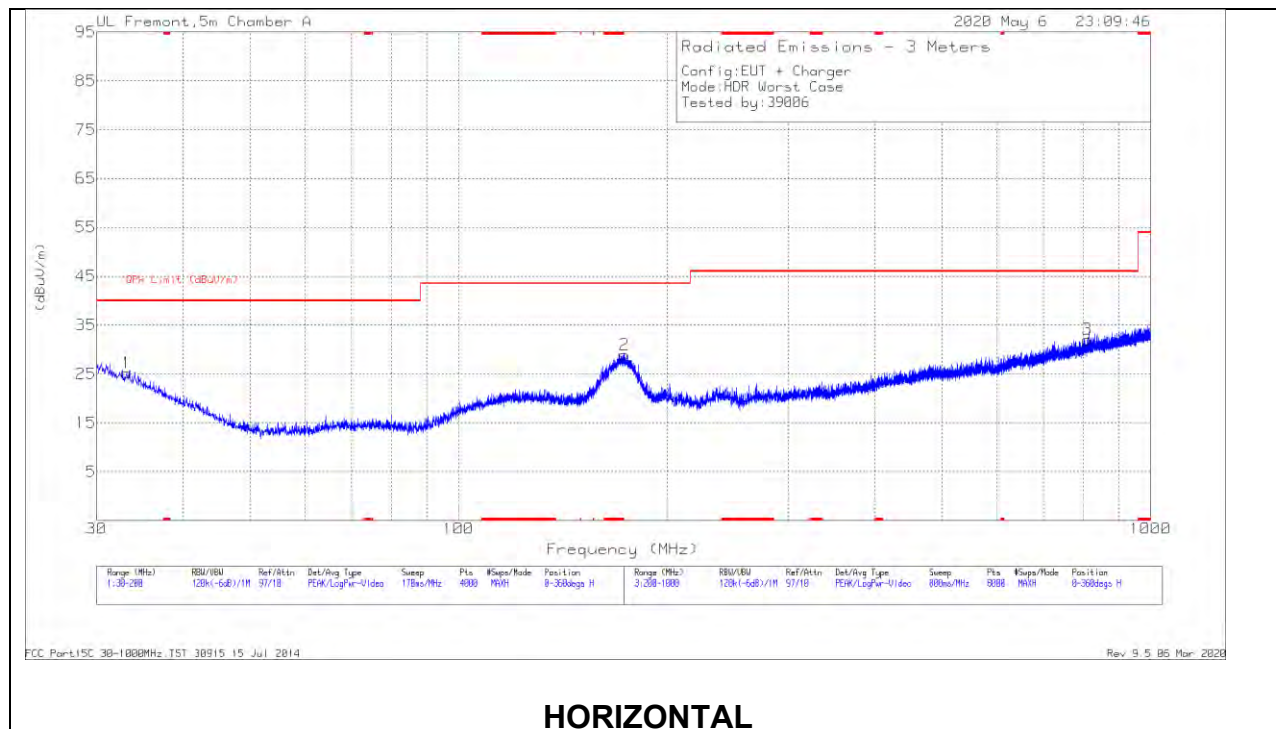
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

## 10.3. WORST CASE BELOW 1 GHz

### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



## **Below 1GHz Data**

### **Trace Markers**

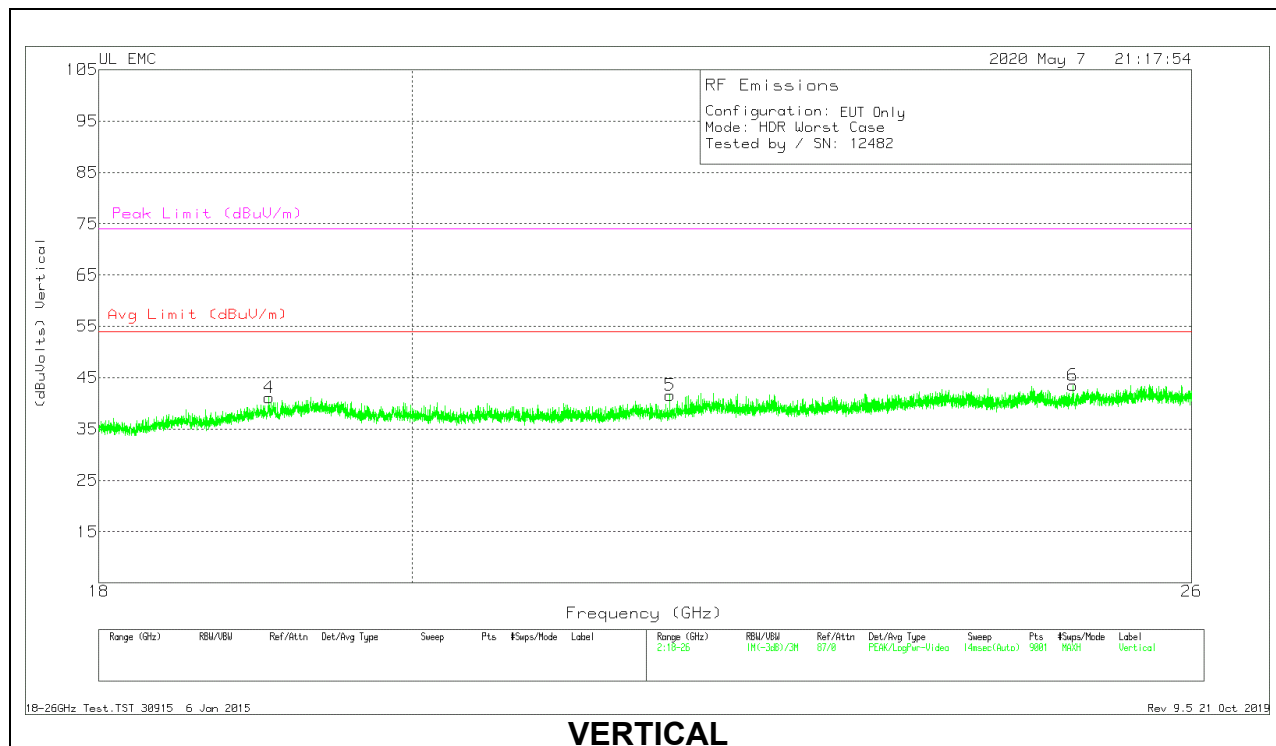
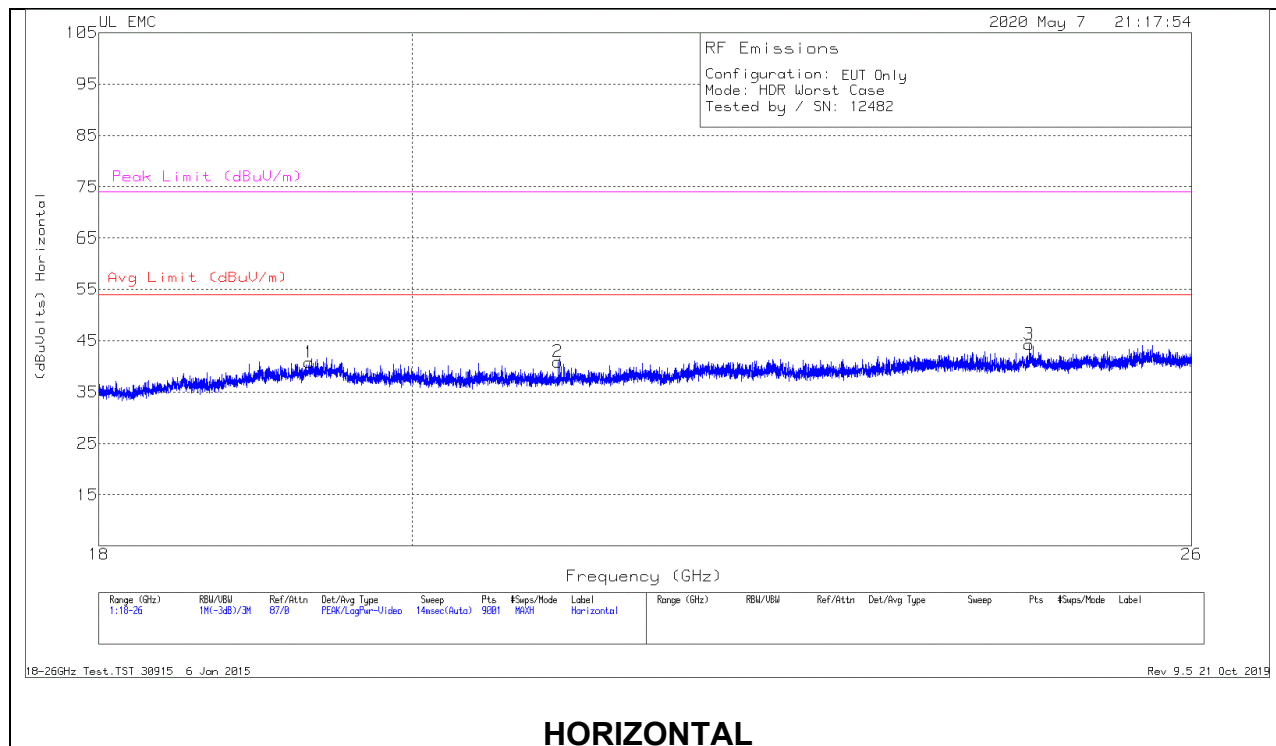
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF PRE0181575 (dB) | Amp/Cbl (dB/m) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------------|----------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 4      | 32.9333         | 28.43                | Pk  | 24.7               | -27.2          | 25.93                      | 40                 | -14.07      | 0-360          | 100         | V        |
| 1      | 33.1458         | 27.77                | Pk  | 24.6               | -27.2          | 25.17                      | 40                 | -14.83      | 0-360          | 107         | H        |
| 5      | 79.9929         | 34.05                | Pk  | 13.4               | -26.5          | 20.95                      | 40                 | -19.05      | 0-360          | 100         | V        |
| 2      | 173.8572        | 36.92                | Pk  | 17.4               | -25.4          | 28.92                      | 43.52              | -14.6       | 0-360          | 107         | H        |
| 6      | 778.7752        | 26.82                | Pk  | 27.1               | -23.4          | 30.52                      | 46.02              | -15.5       | 0-360          | 291         | V        |
| 3      | 810.4794        | 27.74                | Pk  | 27.5               | -23.2          | 32.04                      | 46.02              | -13.98      | 0-360          | 295         | H        |

Pk - Peak detector

FCC Part15C 30-1000MHz.TST 30915 15 Jul 2014  
Rev 9.5 06 Mar 2020

## 10.4. WORST CASE 18-26 GHZ

### SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)



## 18 – 26GHz DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | T125 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1      | 19.32           | 36.46                | Pk  | 32.7           | -18.9        | -9.5           | 40.76                        | 54                 | -13.24      | 74                  | -33.24         |
| 2      | 21.00622        | 38.49                | Pk  | 33.1           | -21.2        | -9.5           | 40.89                        | 54                 | -13.11      | 74                  | -33.11         |
| 3      | 24.61689        | 38.49                | Pk  | 34.1           | -18.8        | -9.5           | 44.29                        | 54                 | -9.71       | 74                  | -29.71         |
| 4      | 19.06044        | 37.52                | Pk  | 32.7           | -19.6        | -9.5           | 41.12                        | 54                 | -12.88      | 74                  | -32.88         |
| 5      | 21.81244        | 38.59                | Pk  | 33.2           | -20.7        | -9.5           | 41.59                        | 54                 | -12.41      | 74                  | -32.41         |
| 6      | 24.98133        | 38.4                 | Pk  | 34.1           | -19.5        | -9.5           | 43.5                         | 54                 | -10.5       | 74                  | -30.5          |

Pk - Peak detector

18-26GHz Test.TST 30915 6 Jan 2015  
Rev 9.5 21 Oct 2019

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dB $\mu$ V) |            |
|-----------------------------|------------------------------|------------|
|                             | Quasi-peak                   | Average    |
| 0.15-0.5                    | 66 to 56 *                   | 56 to 46 * |
| 0.5-5                       | 56                           | 46         |
| 5-30                        | 60                           | 50         |

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

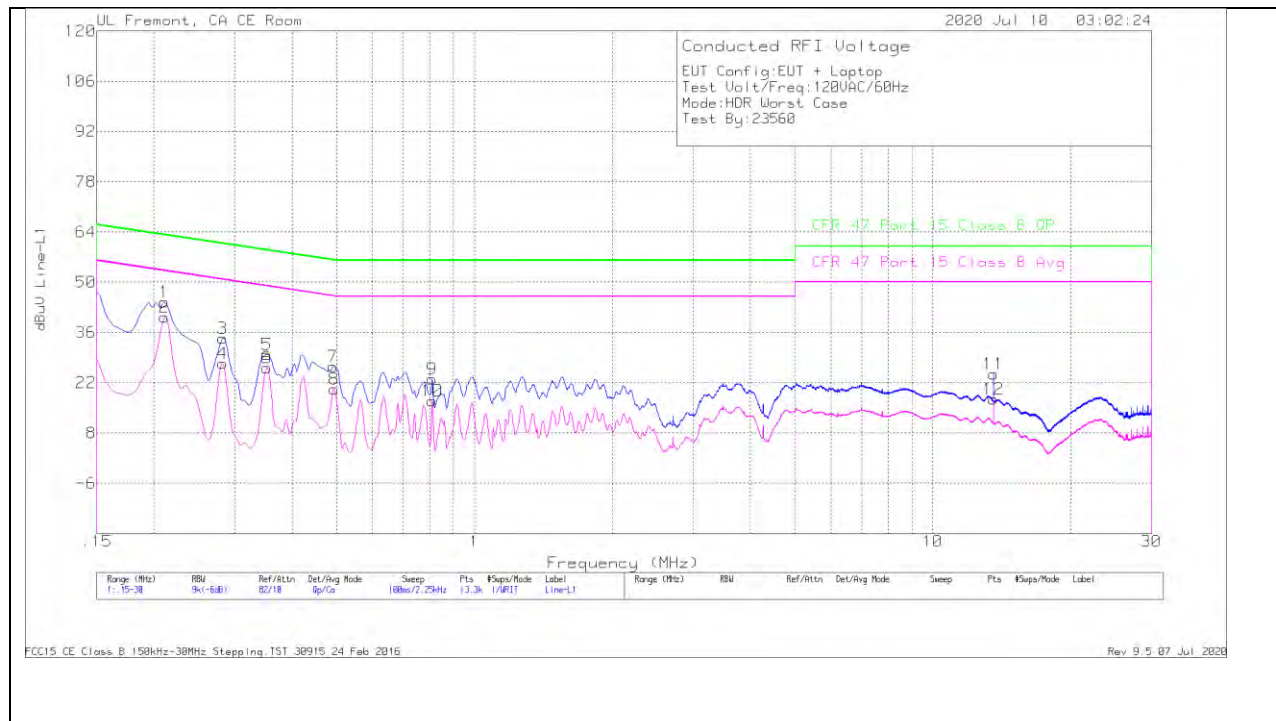
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS

## 11.1. AC Power Line With Laptop

### LINE 1 RESULTS



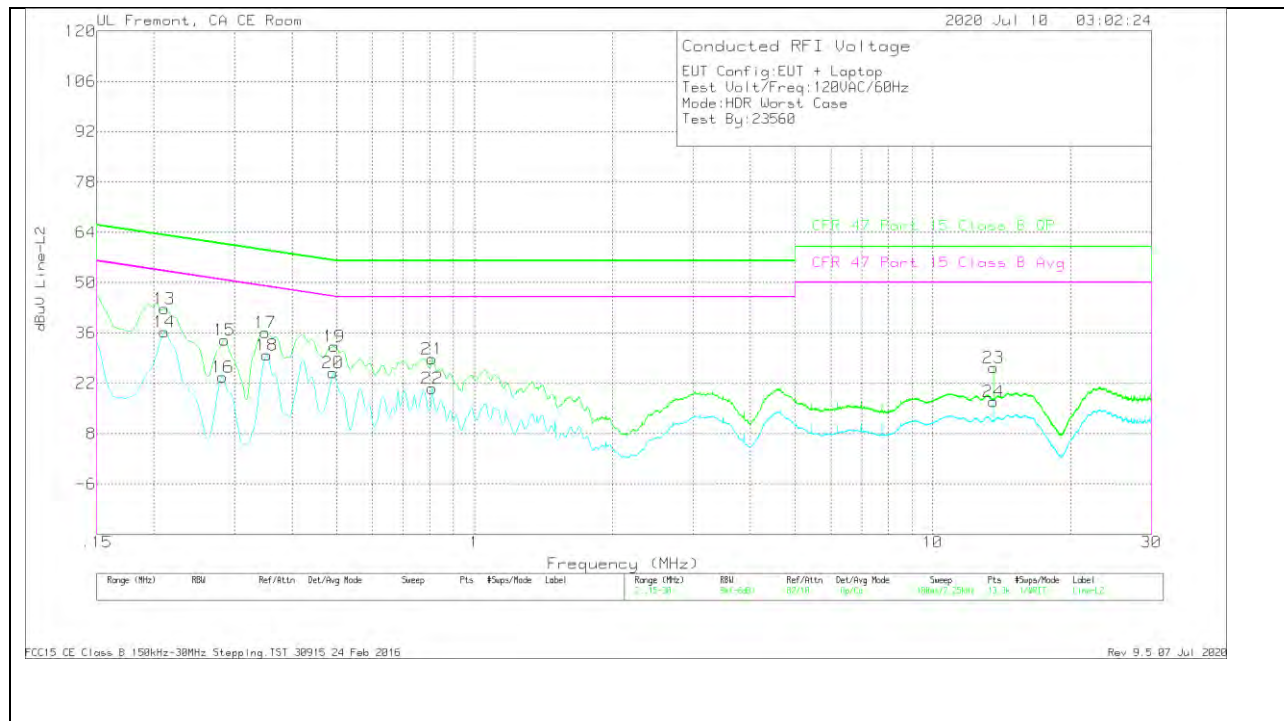
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
|--------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 1      | .21075          | 34.45                | Qp  | 0                   | 0               | 10           | 44.45                  | 63.18                     | -18.73         | -                          | -                     |
| 2      | .21075          | 30.29                | Ca  | 0                   | 0               | 10           | 40.29                  | -                         | -              | 53.18                      | -12.89                |
| 3      | .28275          | 24.44                | Qp  | 0                   | 0               | 10           | 34.44                  | 60.73                     | -26.29         | -                          | -                     |
| 4      | .28275          | 17.39                | Ca  | 0                   | 0               | 10           | 27.39                  | -                         | -              | 50.73                      | -23.34                |
| 5      | .3525           | 19.91                | Qp  | 0                   | 0               | 10           | 29.91                  | 58.9                      | -28.99         | -                          | -                     |
| 6      | .3525           | 16.16                | Ca  | 0                   | 0               | 10           | 26.16                  | -                         | -              | 48.9                       | -22.74                |
| 7      | .492            | 16.51                | Qp  | 0                   | 0               | 10           | 26.51                  | 56.13                     | -29.62         | -                          | -                     |
| 8      | .49425          | 10.32                | Ca  | 0                   | 0               | 10           | 20.32                  | -                         | -              | 46.1                       | -25.78                |
| 9      | .80925          | 13.07                | Qp  | 0                   | 0               | 10           | 23.07                  | 56                        | -32.93         | -                          | -                     |
| 10     | .80925          | 7                    | Ca  | 0                   | 0               | 10           | 17                     | -                         | -              | 46                         | -29                   |
| 11     | 13.56           | 14.06                | Qp  | .1                  | .2              | 10.1         | 24.46                  | 60                        | -35.54         | -                          | -                     |
| 12     | 13.56           | 7.03                 | Ca  | .1                  | .2              | 10.1         | 17.43                  | -                         | -              | 50                         | -32.57                |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

FCC15 CE Class B 150kHz-30MHz Stepping, TST 30915 24 Feb 2016  
Rev 9.5 07 Jul 2020

## LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 13                           | .21075          | 32.77                | Qp  | 0                   | 0               | 10           | 42.77                  | 63.18                     | -20.41         | -                          | -                     |
| 14                           | .21075          | 26.34                | Ca  | 0                   | 0               | 10           | 36.34                  | -                         | -              | 53.18                      | -16.84                |
| 15                           | .285            | 23.99                | Qp  | 0                   | 0               | 10           | 33.99                  | 60.67                     | -26.68         | -                          | -                     |
| 16                           | .28275          | 13.74                | Ca  | 0                   | 0               | 10           | 23.74                  | -                         | -              | 50.73                      | -26.99                |
| 17                           | .35025          | 26.06                | Qp  | 0                   | 0               | 10           | 36.06                  | 58.96                     | -22.9          | -                          | -                     |
| 18                           | .3525           | 19.85                | Ca  | 0                   | 0               | 10           | 29.85                  | -                         | -              | 48.9                       | -19.05                |
| 19                           | .49425          | 22.25                | Qp  | 0                   | 0               | 10           | 32.25                  | 56.1                      | -23.85         | -                          | -                     |
| 20                           | .492            | 14.9                 | Ca  | 0                   | 0               | 10           | 24.9                   | -                         | -              | 46.13                      | -21.23                |
| 21                           | .80925          | 18.72                | Qp  | 0                   | 0               | 10           | 28.72                  | 56                        | -27.28         | -                          | -                     |
| 22                           | .80925          | 10.67                | Ca  | 0                   | 0               | 10           | 20.67                  | -                         | -              | 46                         | -25.33                |
| 23                           | 13.56           | 15.97                | Qp  | .1                  | .2              | 10.1         | 26.37                  | 60                        | -33.63         | -                          | -                     |
| 24                           | 13.56           | 6.48                 | Ca  | .1                  | .2              | 10.1         | 16.88                  | -                         | -              | 50                         | -33.12                |

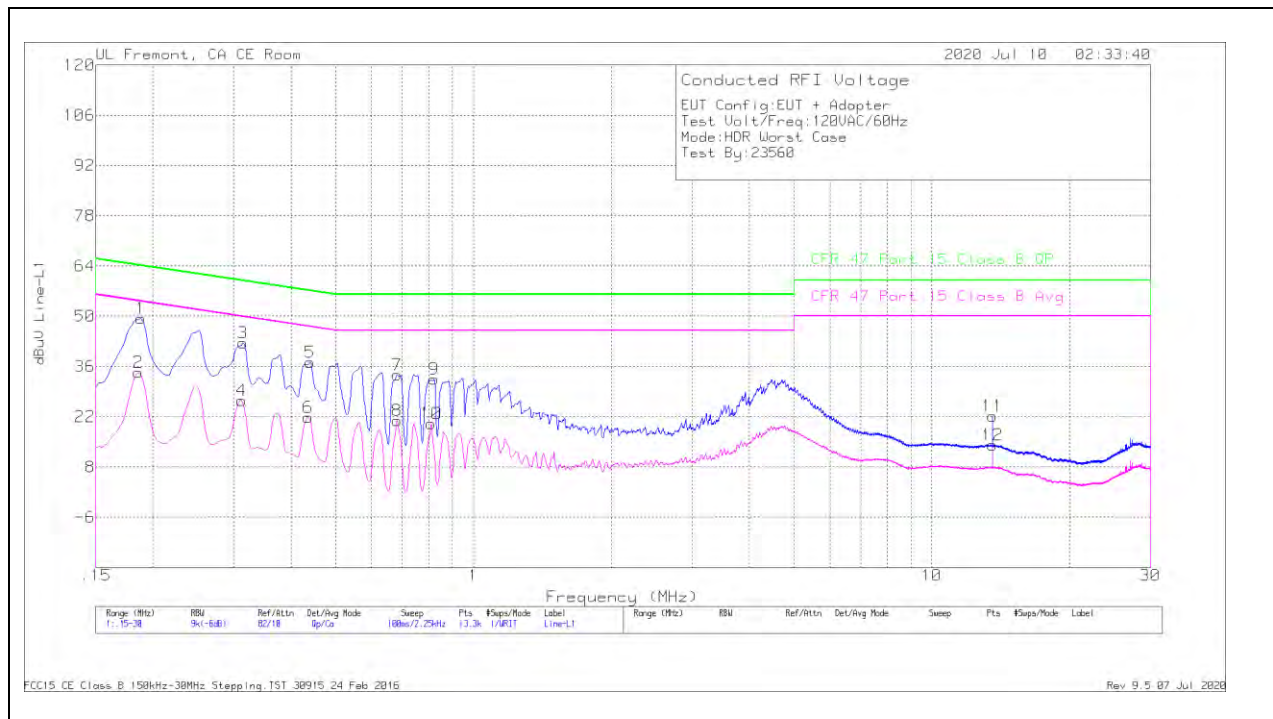
Qp - Quasi-Peak detector

Ca - CISPR average detection

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## 11.2. AC Power Line With AC/DC Adapter

### LINE 1 RESULTS



Range 1: Line-L1 15 - 30MHz

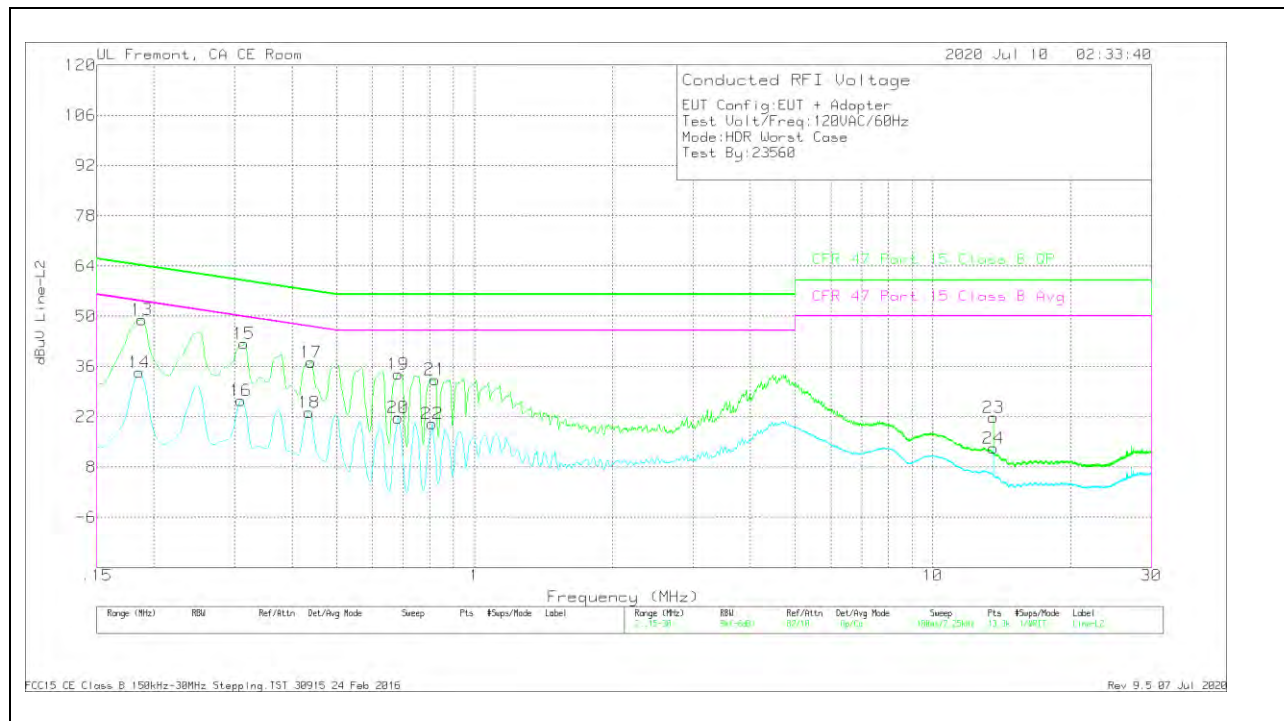
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
|--------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| 1      | .18825          | 39.33                | Qp  | 0                   | 0               | 10           | 49.33                  | 64.11                     | -14.78         | -                          | -                     |
| 2      | .186            | 24.42                | Ca  | 0                   | 0               | 10           | 34.42                  | -                         | -              | 54.21                      | -19.79                |
| 3      | .31425          | 32.51                | Qp  | 0                   | 0               | 10           | 42.51                  | 59.86                     | -17.35         | -                          | -                     |
| 4      | .312            | 16.53                | Ca  | 0                   | 0               | 10           | 26.53                  | -                         | -              | 49.92                      | -23.39                |
| 5      | .44025          | 27.09                | Qp  | 0                   | 0               | 10           | 37.09                  | 57.06                     | -19.97         | -                          | -                     |
| 6      | .43575          | 11.81                | Ca  | 0                   | 0               | 10           | 21.81                  | -                         | -              | 47.14                      | -25.33                |
| 7      | .681            | 23.62                | Qp  | 0                   | 0               | 10           | 33.62                  | 56                        | -22.38         | -                          | -                     |
| 8      | .681            | 10.96                | Ca  | 0                   | 0               | 10           | 20.96                  | -                         | -              | 46                         | -25.04                |
| 9      | .8205           | 22.39                | Qp  | 0                   | 0               | 10           | 32.39                  | 56                        | -23.61         | -                          | -                     |
| 10     | .80925          | 10.05                | Ca  | 0                   | 0               | 10           | 20.05                  | -                         | -              | 46                         | -25.95                |
| 11     | 13.56           | 11.7                 | Qp  | .1                  | .2              | 10.1         | 22.1                   | 60                        | -37.9          | -                          | -                     |
| 12     | 13.56           | 3.75                 | Ca  | .1                  | .2              | 10.1         | 14.15                  | -                         | -              | 50                         | -35.85                |

Qp - Quasi-Peak detector

Ca - CISPR average detection

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## LINE 2 RESULTS



### Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBUV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBUV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
|--------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| 13     | .18825          | 39.1                 | Qp  | 0                   | 0               | 10           | 49.1                   | 64.11                     | -15.01         | -                          | -                    |
| 14     | .186            | 24.4                 | Ca  | 0                   | 0               | 10           | 34.4                   | -                         | -              | 54.21                      | -19.81               |
| 15     | .31425          | 32.35                | Qp  | 0                   | 0               | 10           | 42.35                  | 59.86                     | -17.51         | -                          | -                    |
| 16     | .30975          | 16.45                | Ca  | 0                   | 0               | 10           | 26.45                  | -                         | -              | 49.98                      | -23.53               |
| 17     | .44025          | 27.2                 | Qp  | 0                   | 0               | 10           | 37.2                   | 57.06                     | -19.86         | -                          | -                    |
| 18     | .43575          | 13.22                | Ca  | 0                   | 0               | 10           | 23.22                  | -                         | -              | 47.14                      | -23.92               |
| 19     | .681            | 23.87                | Qp  | 0                   | 0               | 10           | 33.87                  | 56                        | -22.13         | -                          | -                    |
| 20     | .681            | 11.73                | Ca  | 0                   | 0               | 10           | 21.73                  | -                         | -              | 46                         | -24.27               |
| 21     | .8205           | 22.37                | Qp  | 0                   | 0               | 10           | 32.37                  | 56                        | -23.63         | -                          | -                    |
| 22     | .80925          | 10.05                | Ca  | 0                   | 0               | 10           | 20.05                  | -                         | -              | 46                         | -25.95               |
| 23     | 13.56           | 11.34                | Qp  | .1                  | .2              | 10.1         | 21.74                  | 60                        | -38.26         | -                          | -                    |
| 24     | 13.56           | 2.94                 | Ca  | .1                  | .2              | 10.1         | 13.34                  | -                         | -              | 50                         | -36.66               |

Qp - Quasi-Peak detector

Ca - CISPR average detection

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## **12. SETUP PHOTOS**

Please refer to 13259315-EP1 for setup photos

## **END OF TEST REPORT**