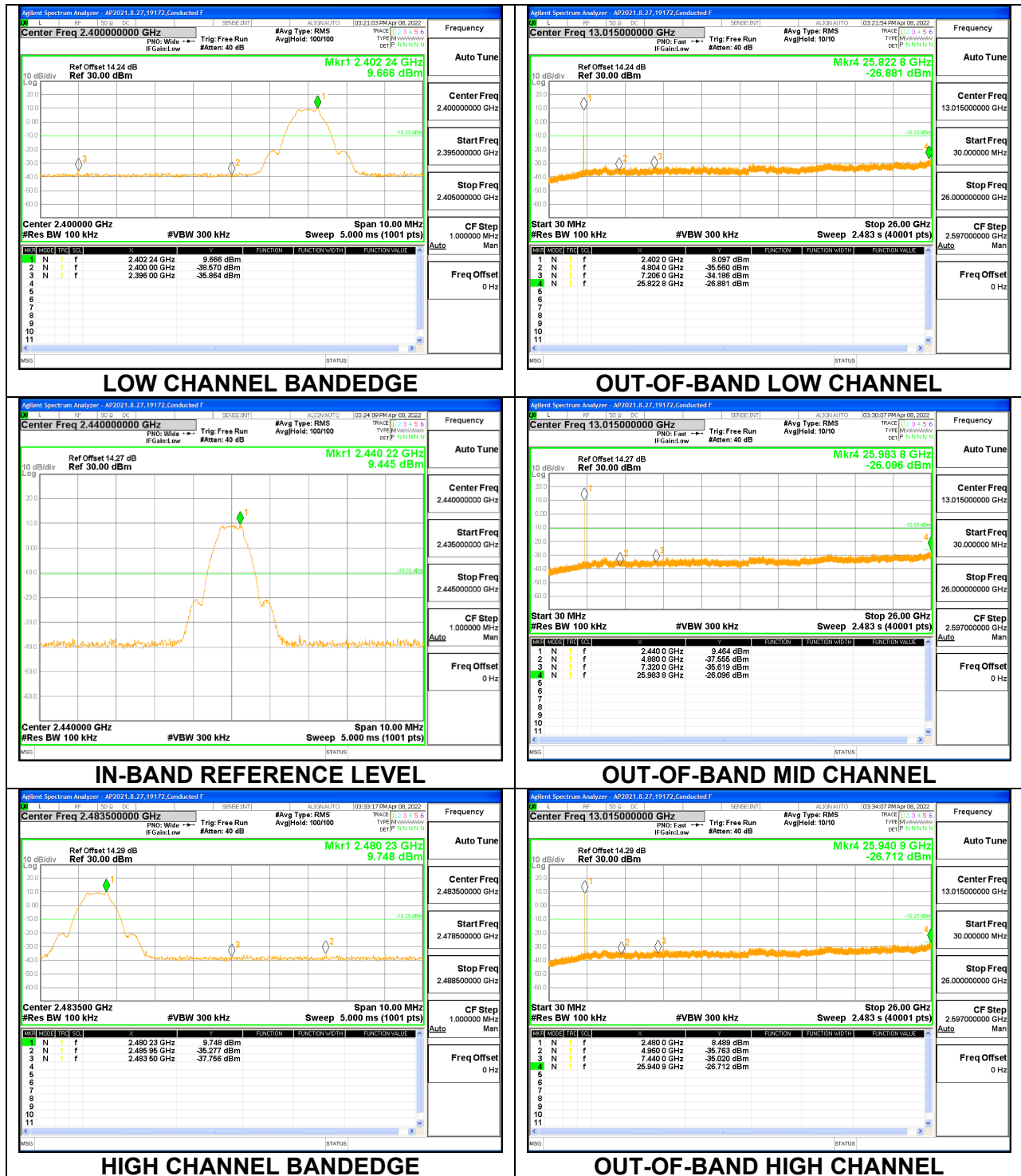
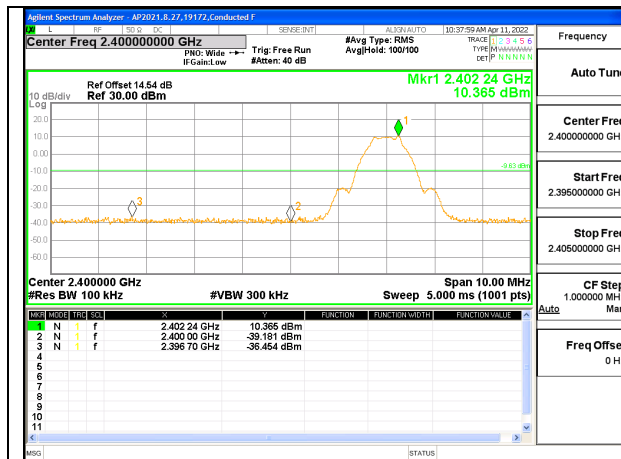


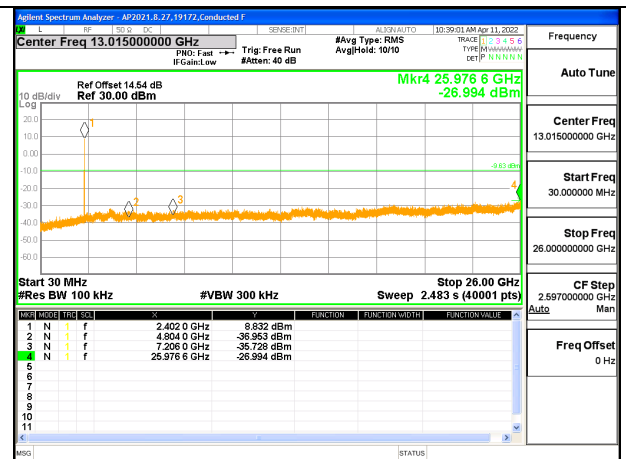
**ANT 3**

## 9.7.6. LOW POWER TXBF BLE (1Mbps)

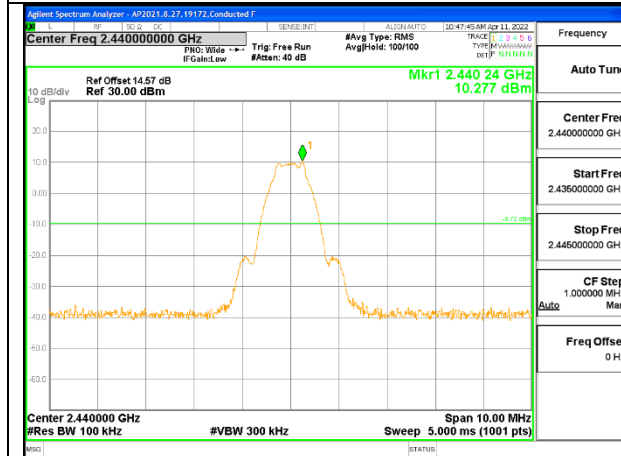
## ANT 4



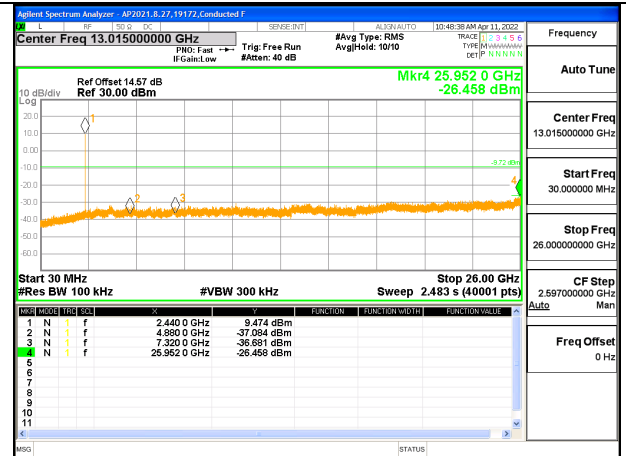
LOW CHANNEL BANDEDGE



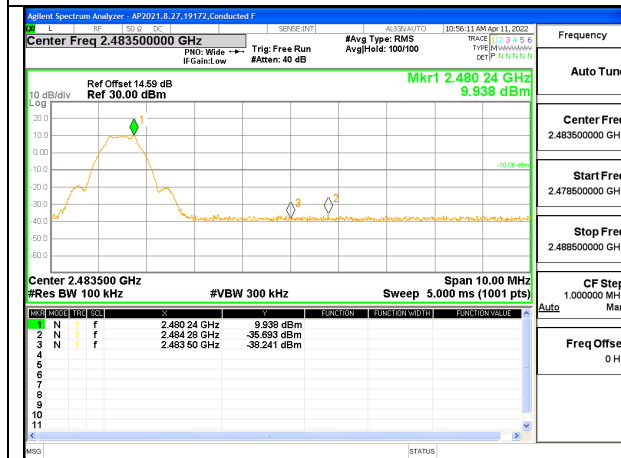
OUT-OF-BAND LOW CHANNEL



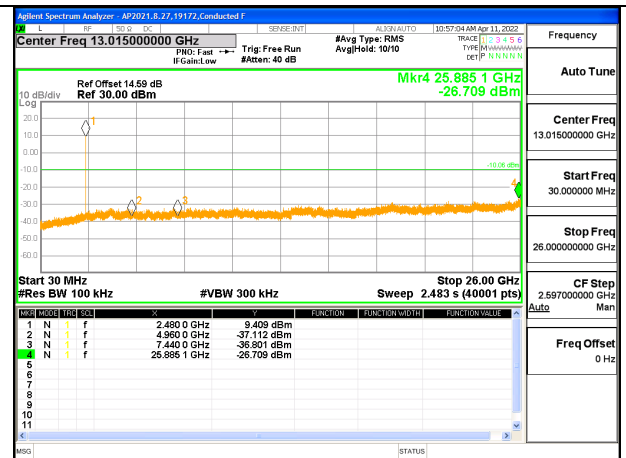
IN-BAND REFERENCE LEVEL



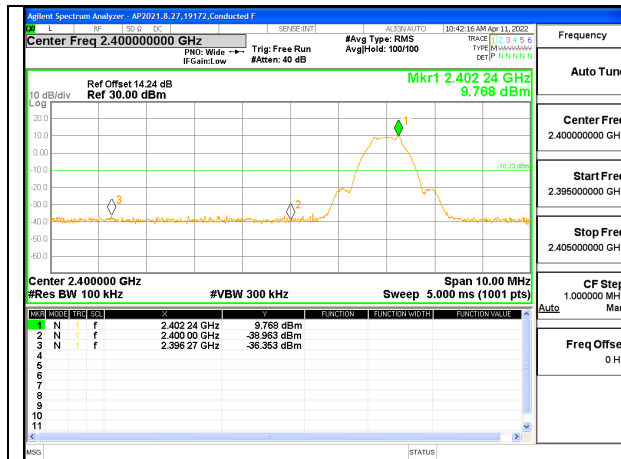
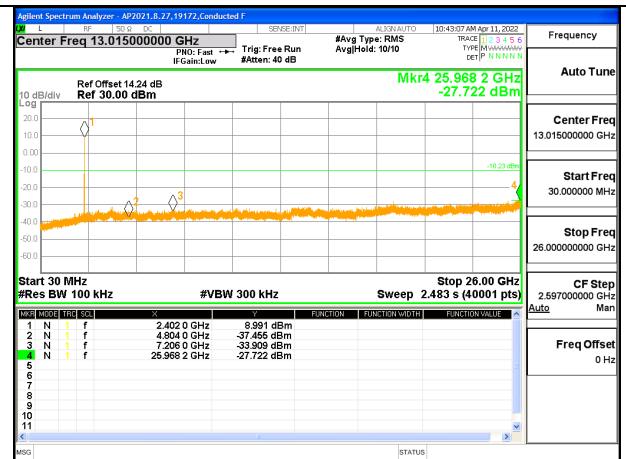
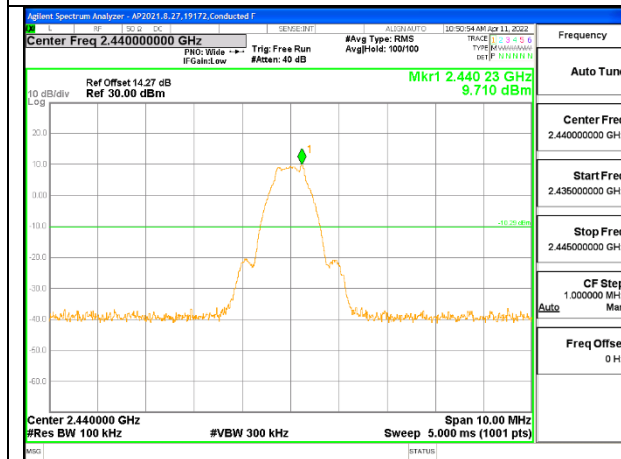
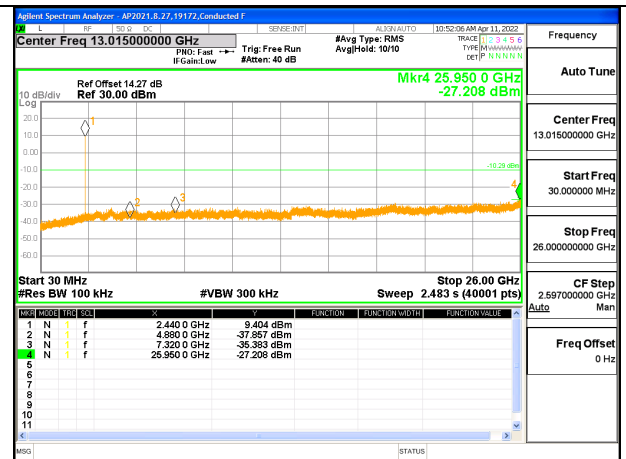
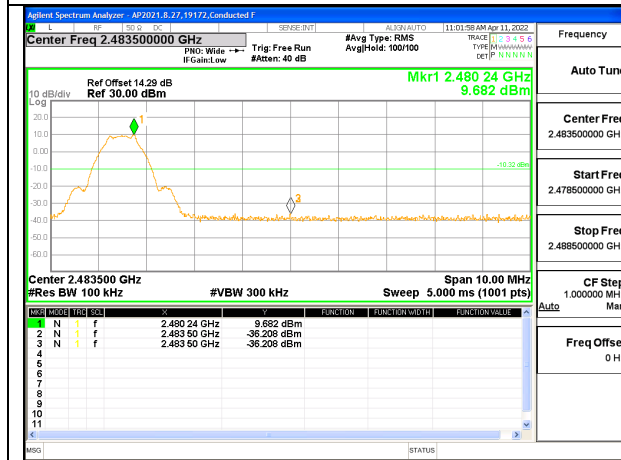
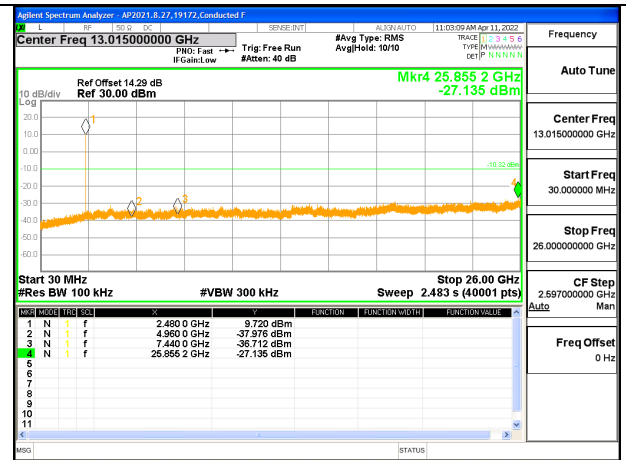
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE

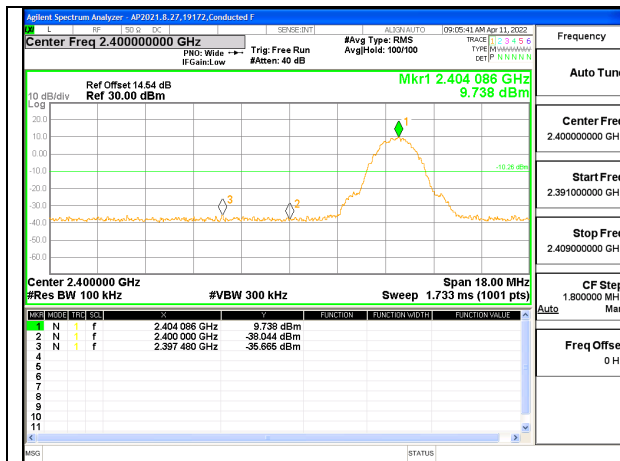


OUT-OF-BAND HIGH CHANNEL

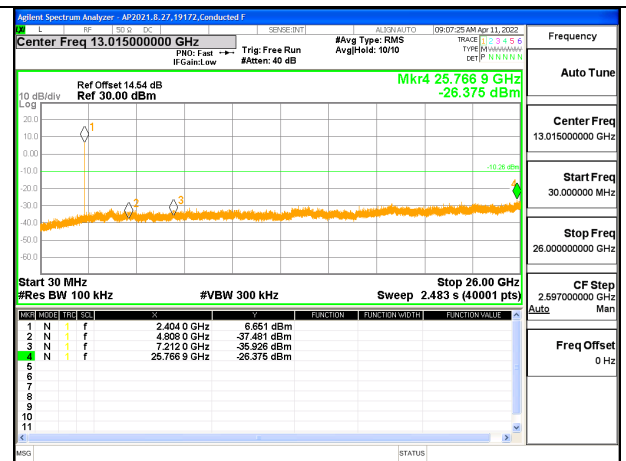
**ANT 3****LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

## 9.7.7. LOW POWER BLE (2Mbps)

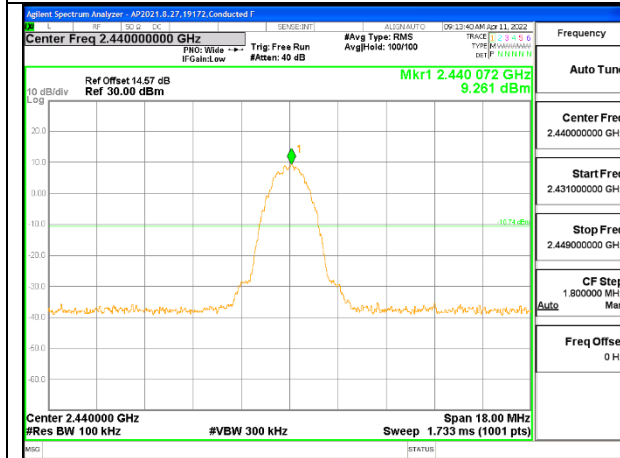
## ANT 4



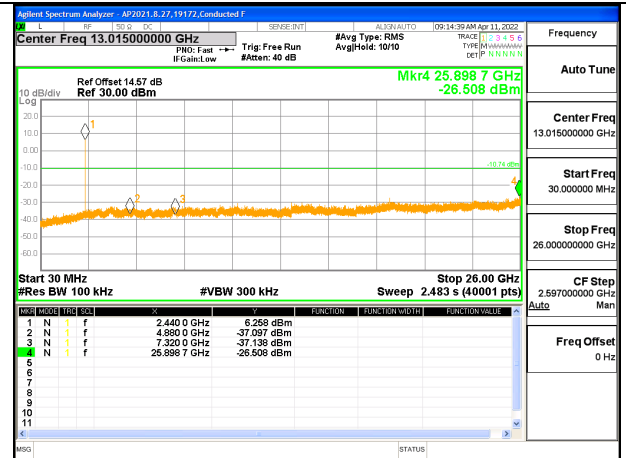
LOW CHANNEL BANDEDGE



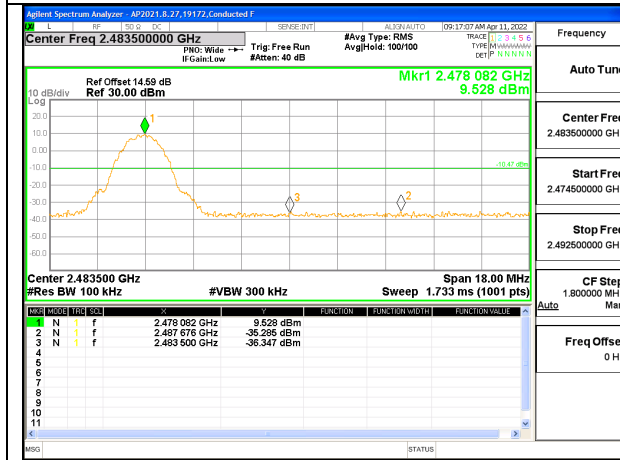
OUT-OF-BAND LOW CHANNEL



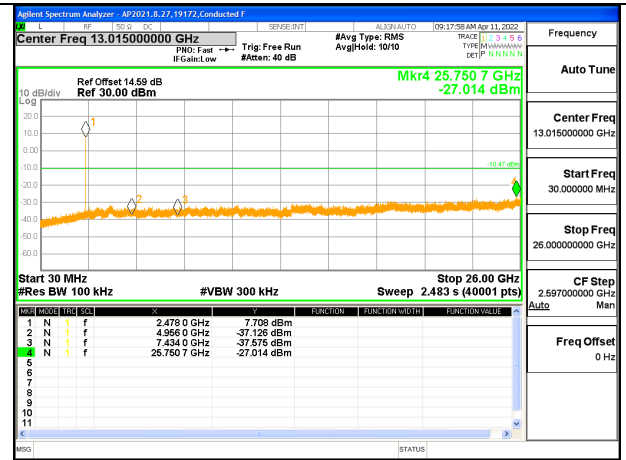
IN-BAND REFERENCE LEVEL



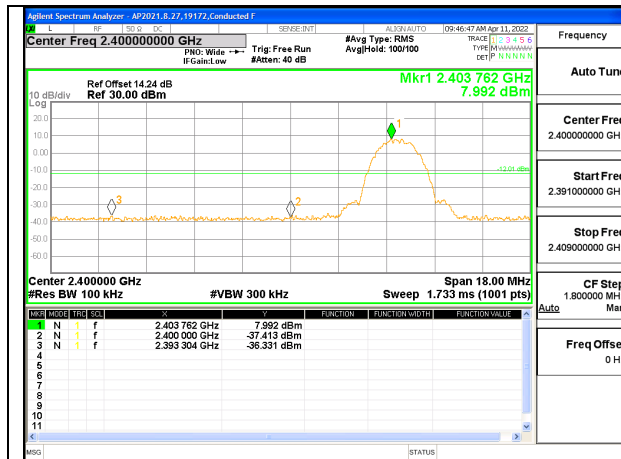
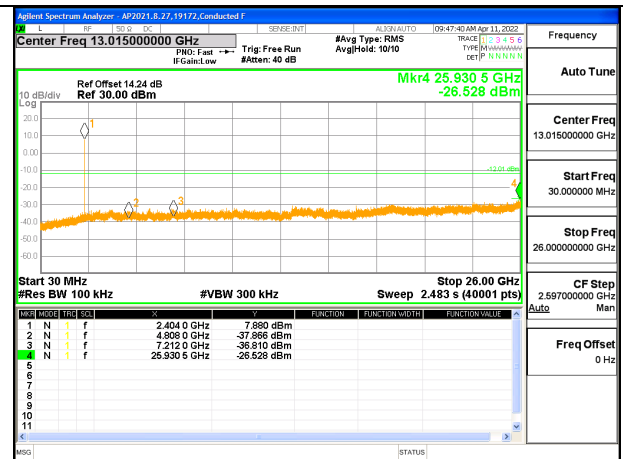
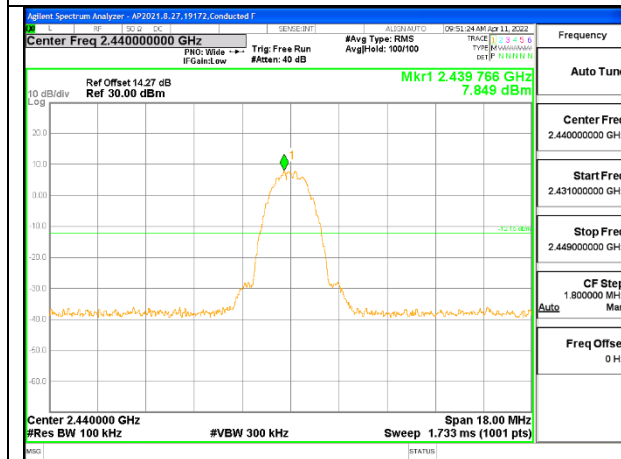
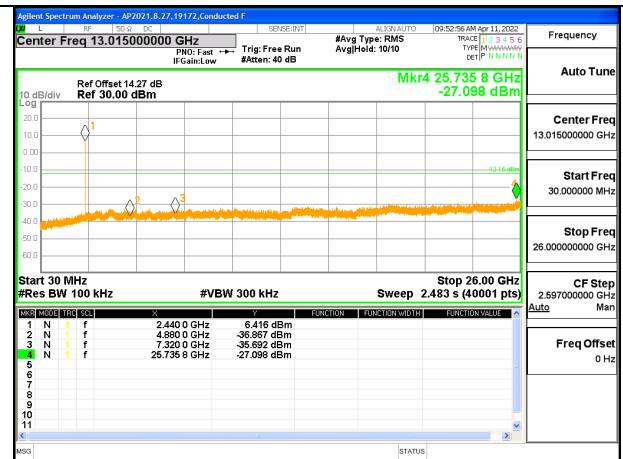
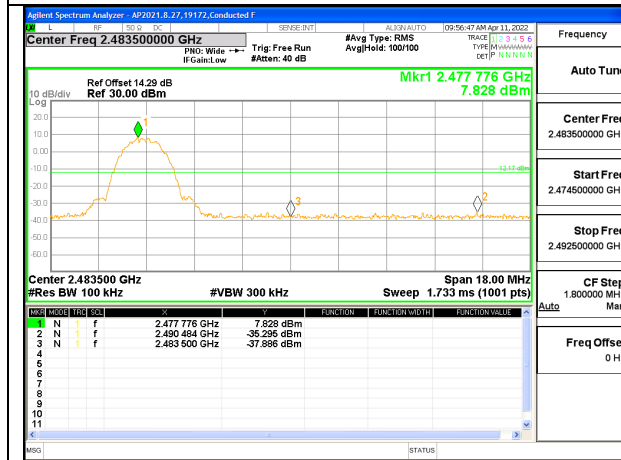
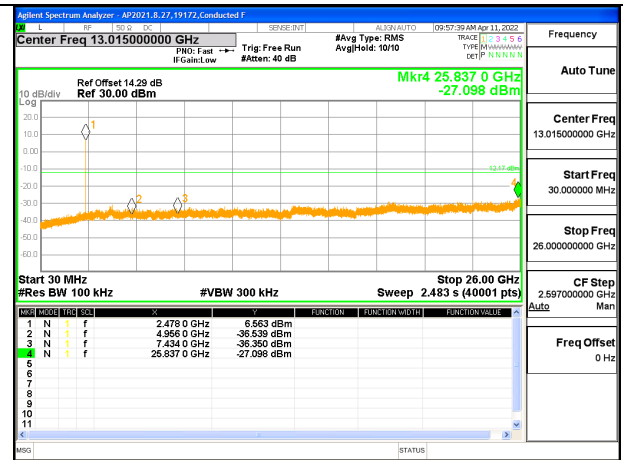
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE

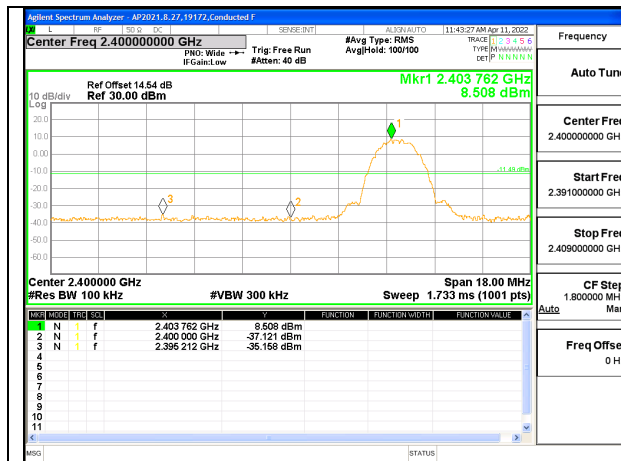


OUT-OF-BAND HIGH CHANNEL

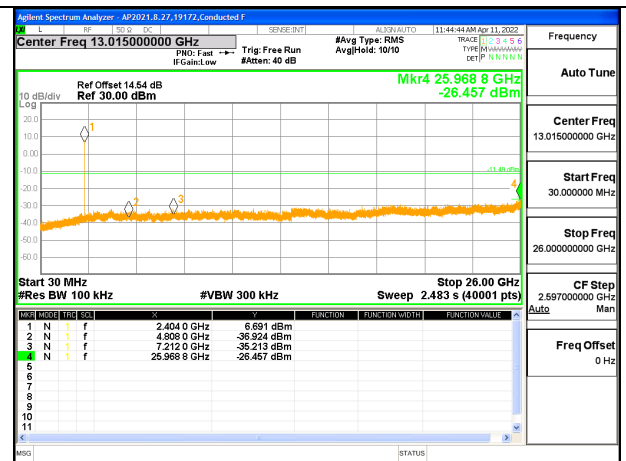
**ANT 3****LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

## 9.7.8. LOW POWER TXBF BLE (2Mbps)

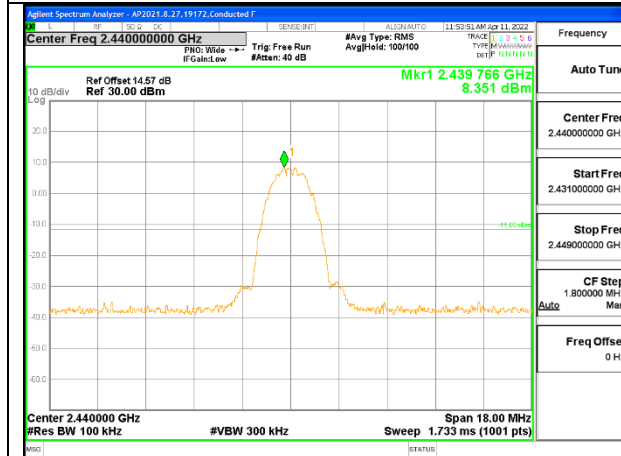
## ANT 4



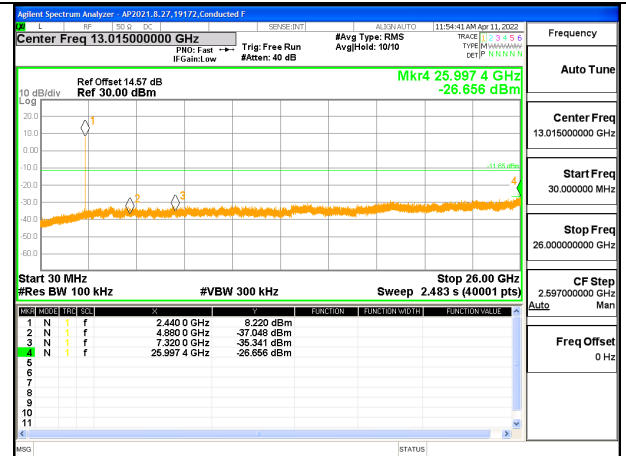
LOW CHANNEL BANDEDGE



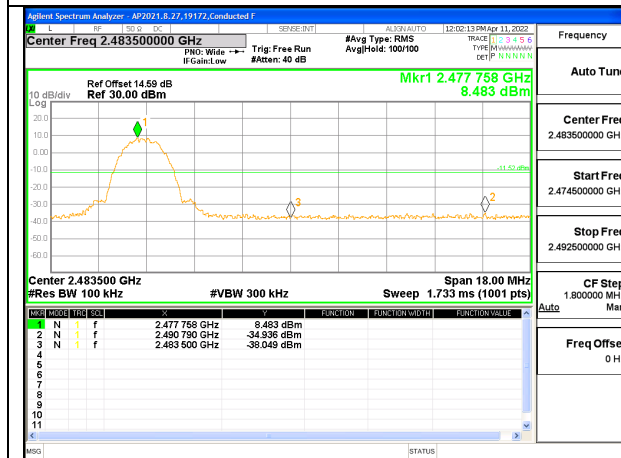
OUT-OF-BAND LOW CHANNEL



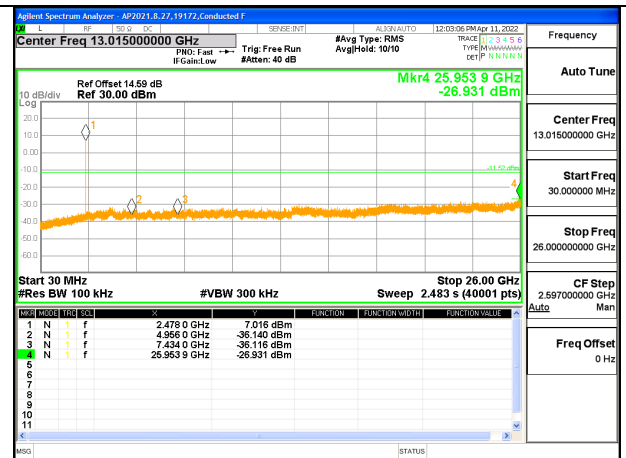
IN-BAND REFERENCE LEVEL



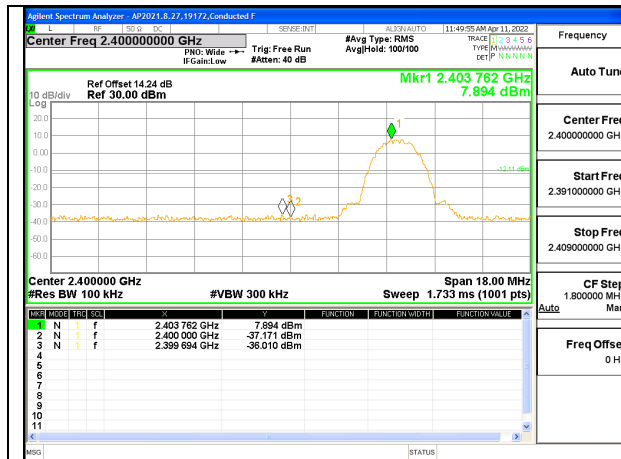
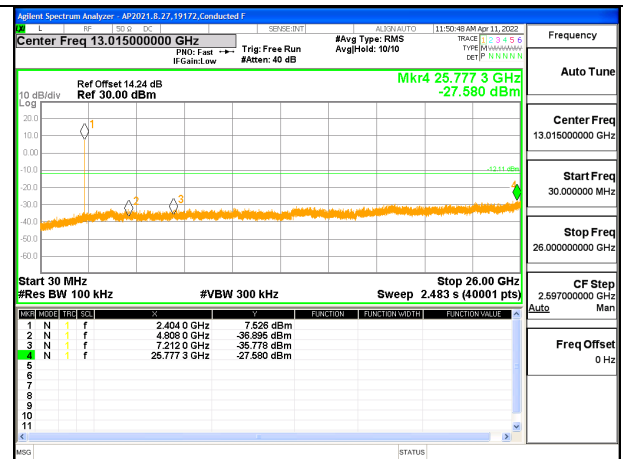
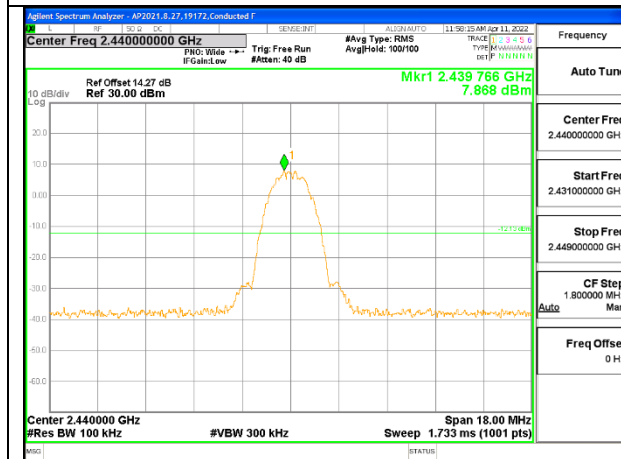
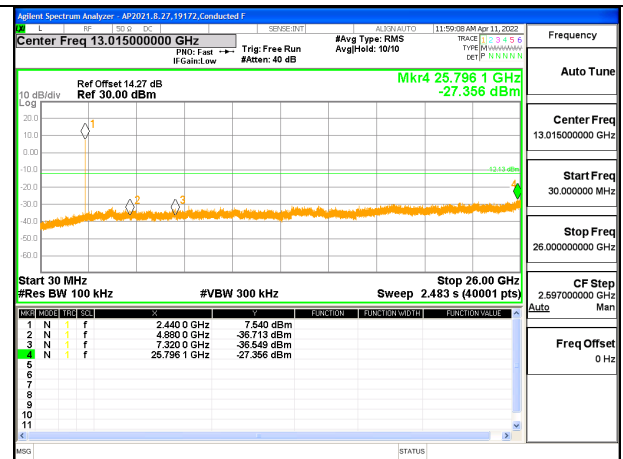
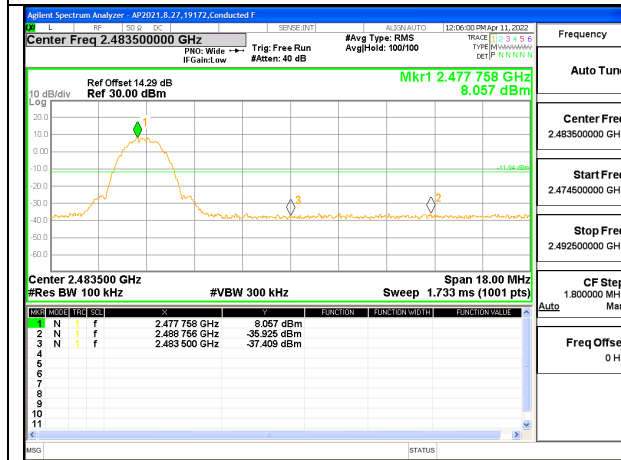
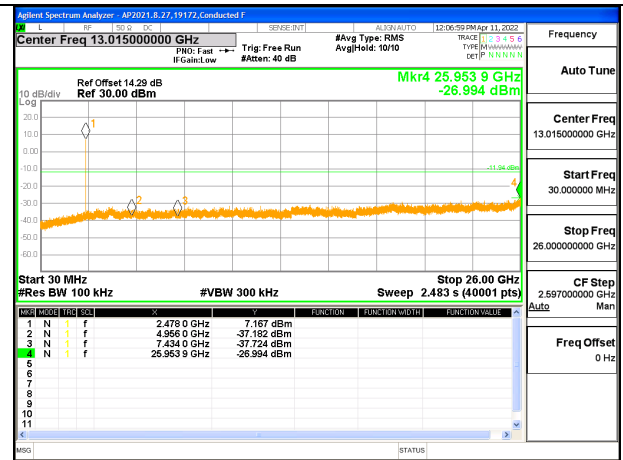
OUT-OF-BAND MID CHANNEL



HIGH CHANNEL BANDEDGE



OUT-OF-BAND HIGH CHANNEL

**ANT 3****LOW CHANNEL BANDEDGE****OUT-OF-BAND LOW CHANNEL****IN-BAND REFERENCE LEVEL****OUT-OF-BAND MID CHANNEL****HIGH CHANNEL BANDEDGE****OUT-OF-BAND HIGH CHANNEL**

## 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.

Note: The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as report in the table) using free space impedance of 377 Ohms. For example, the measurement at frequency X kHz resulted in a level of Y dBuV/m, which is equivalent to  $Y - 51.5 = Z$  dBuA/m, which has the same margin, W dB to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

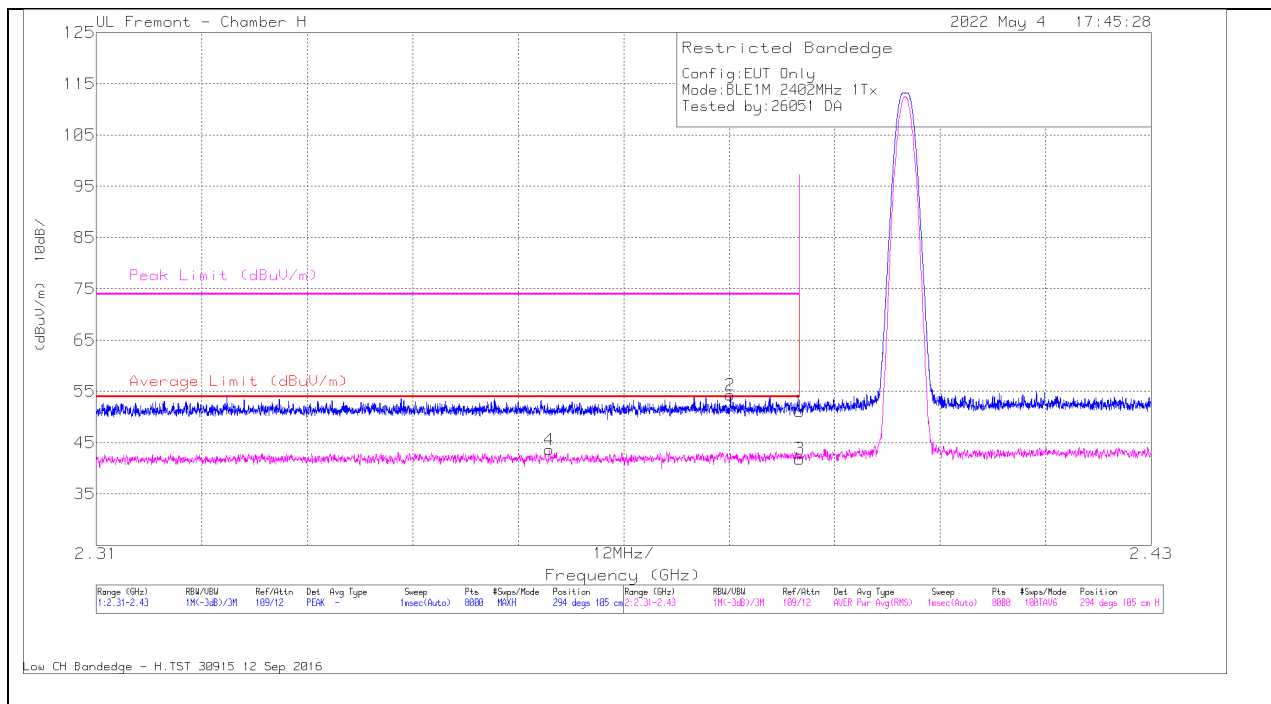
In addition:

#### **KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification**

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

#### **RESULTS**

**10.2. TRANSMITTER ABOVE 1 GHz****10.2.1. HIGH POWER BLE (1Mbps)****ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

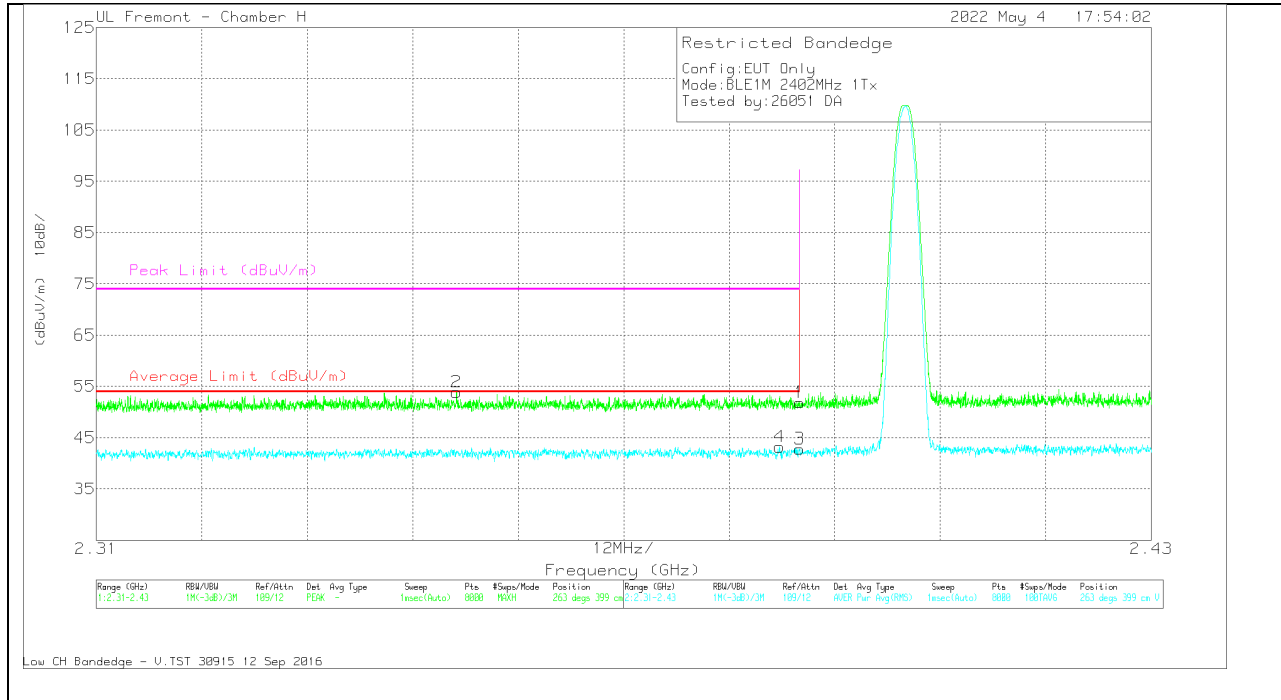
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 36.8                 | Pk  | 32              | -17.7             | 51.1                       | -                      | -           | 74                  | -22.9          | 294            | 105         | H        |
| 2      | * 2.38213       | 40.1                 | Pk  | 32              | -17.8             | 54.3                       | -                      | -           | 74                  | -19.7          | 294            | 105         | H        |
| 3      | * 2.39          | 27.52                | RMS | 32              | -17.7             | 41.82                      | 54                     | -12.18      | -                   | -              | 294            | 105         | H        |
| 4      | * 2.361517      | 29.51                | RMS | 31.9            | -17.8             | 43.61                      | 54                     | -10.39      | -                   | -              | 294            | 105         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

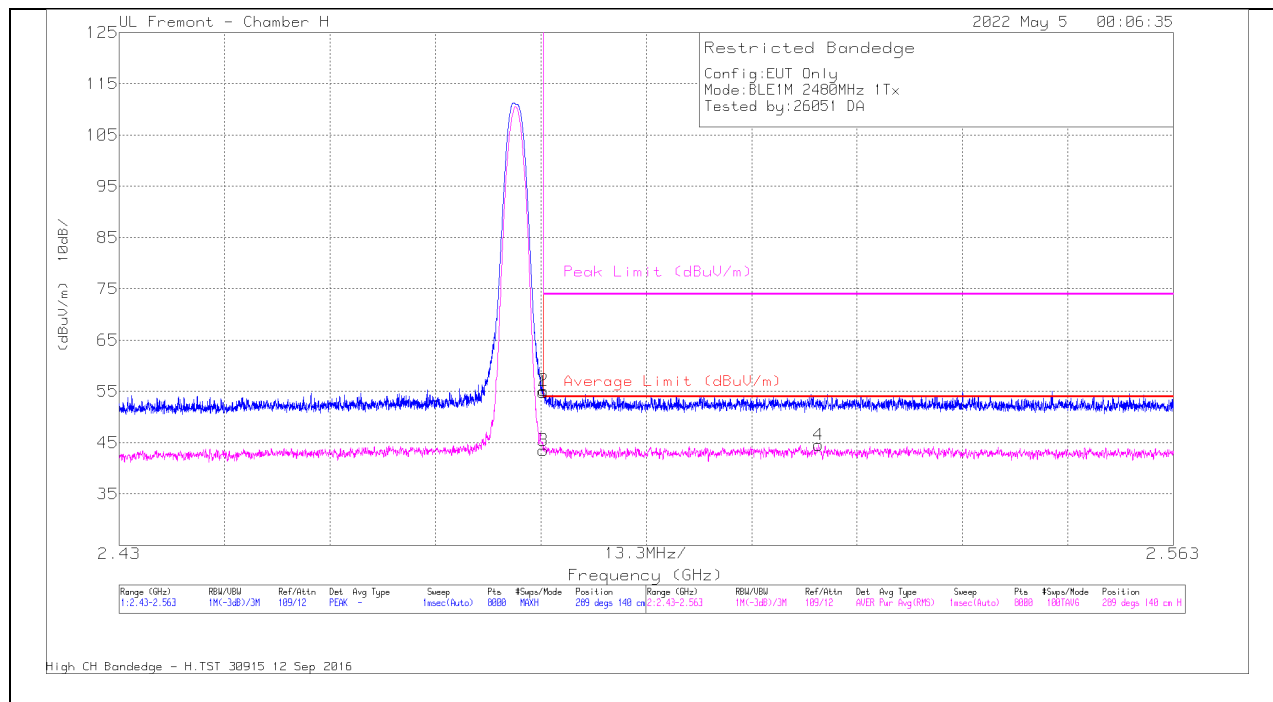


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 37.55                | Pk  | 32              | -17.7             | 51.85                      | -                      | -           | 74                  | -22.15         | 263            | 399         | V        |
| 2      | * 2.35097       | 39.78                | Pk  | 31.9            | -17.8             | 53.88                      | -                      | -           | 74                  | -20.12         | 263            | 399         | V        |
| 3      | * 2.39          | 28.51                | RMS | 32              | -17.7             | 42.81                      | 54                     | -11.19      | -                   | -              | 263            | 399         | V        |
| 4      | * 2.38771       | 29.02                | RMS | 32              | -17.8             | 43.22                      | 54                     | -10.78      | -                   | -              | 263            | 399         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

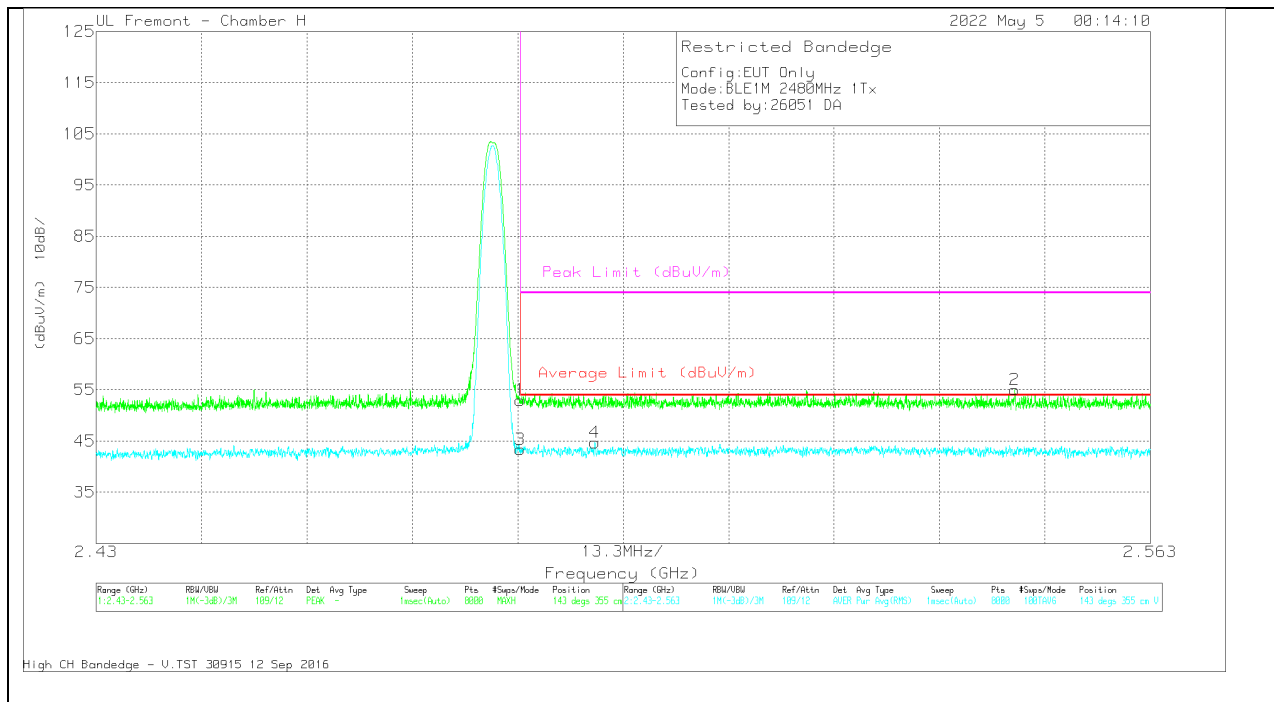
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C b/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarization |
|--------|-----------------|----------------------|-----|-----------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|--------------|
| 1      | * 2.4835        | 39.77                | Pk  | 32.7            | -17.6            | 54.87                      | -                      | -           | 74                  | -19.13         | 289            | 140         | H            |
| 2      | * 2.483522      | 40.08                | Pk  | 32.7            | -17.6            | 55.18                      | -                      | -           | 74                  | -18.82         | 289            | 140         | H            |
| 3      | * 2.4835        | 28.41                | RMS | 32.7            | -17.6            | 43.51                      | 54                     | -10.49      | -                   | -              | 289            | 140         | H            |
| 4      | 2.518239        | 29.47                | RMS | 32.8            | -17.7            | 44.57                      | 54                     | -9.43       | -                   | -              | 289            | 140         | H            |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

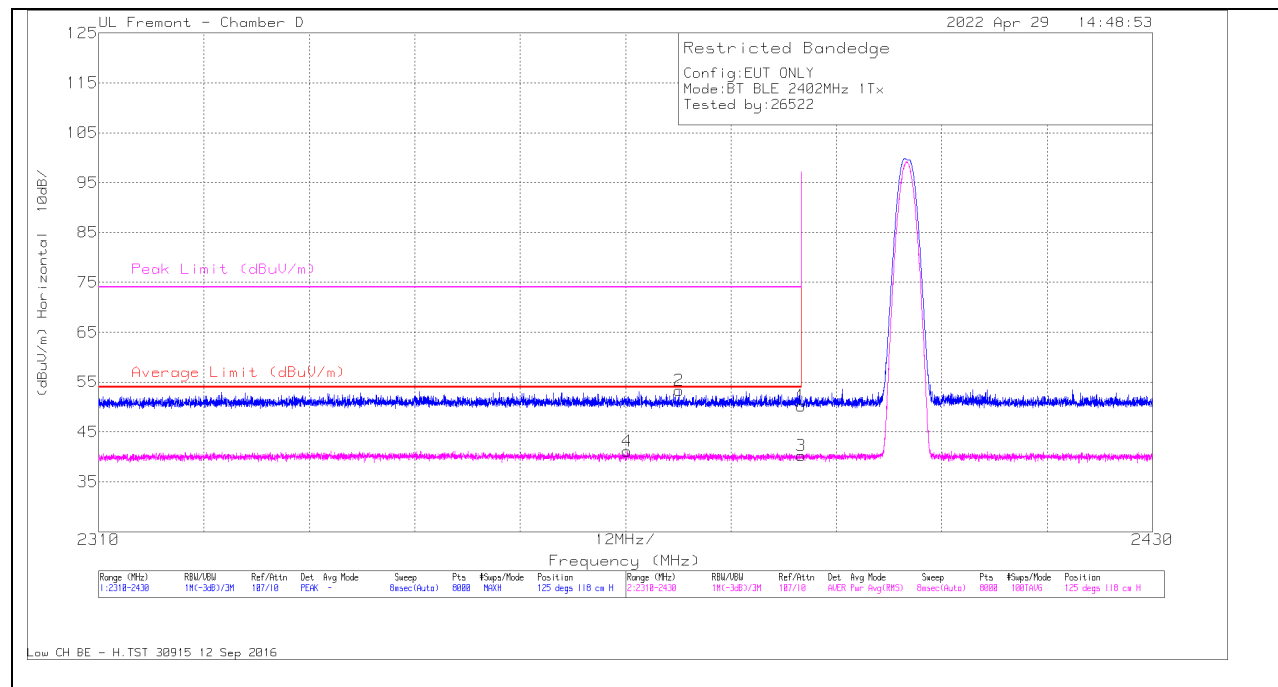


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.4835        | 37.87                | Pk  | 32.7            | -17.6             | 52.97                      | -                      | -           | 74                  | -21.03         | 143            | 355         | V        |
| 3      | * 2.4835        | 28.26                | RMS | 32.7            | -17.6             | 43.36                      | 54                     | -10.64      | -                   | -              | 143            | 355         | V        |
| 4      | * 2.492917      | 29.69                | RMS | 32.7            | -17.7             | 44.69                      | 54                     | -9.31       | -                   | -              | 143            | 355         | V        |
| 2      | 2.54589         | 40.03                | Pk  | 32.6            | -17.6             | 55.03                      | -                      | -           | 74                  | -18.97         | 143            | 355         | V        |

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

Pk - Peak detector

RMS - RMS detection

**ANT 3****BANDEGE (LOW CHANNEL)****HORIZONTAL RESULT**

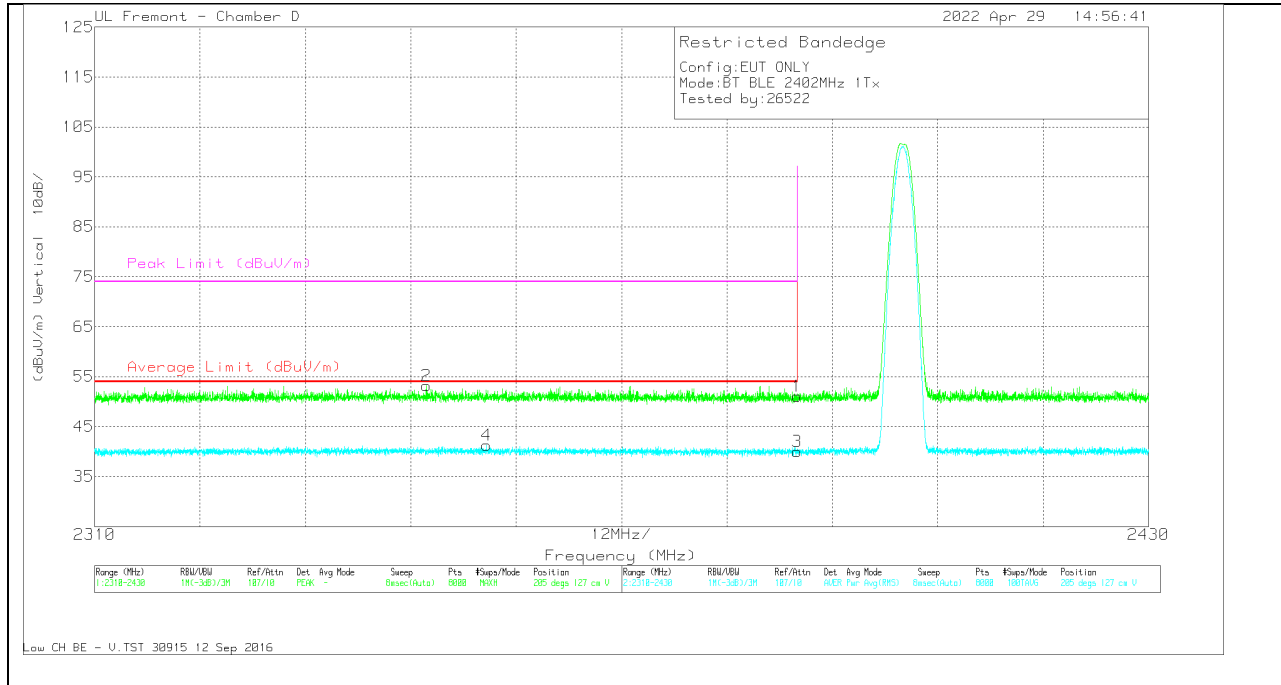
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 38.85                | Pk  | 32.1              | -20.7                   | 50.25                      | -                      | -           | 74                  | -23.75         | 125            | 118         | H        |
| 2      | * 2376.084      | 41.88                | Pk  | 32.2              | -20.7                   | 53.38                      | -                      | -           | 74                  | -20.62         | 125            | 118         | H        |
| 3      | * 2390          | 28.82                | RMS | 32.1              | -20.7                   | 40.22                      | 54                     | -13.78      | -                   | -              | 125            | 118         | H        |
| 4      | * 2370.203      | 29.76                | RMS | 32.2              | -20.8                   | 41.16                      | 54                     | -12.84      | -                   | -              | 125            | 118         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

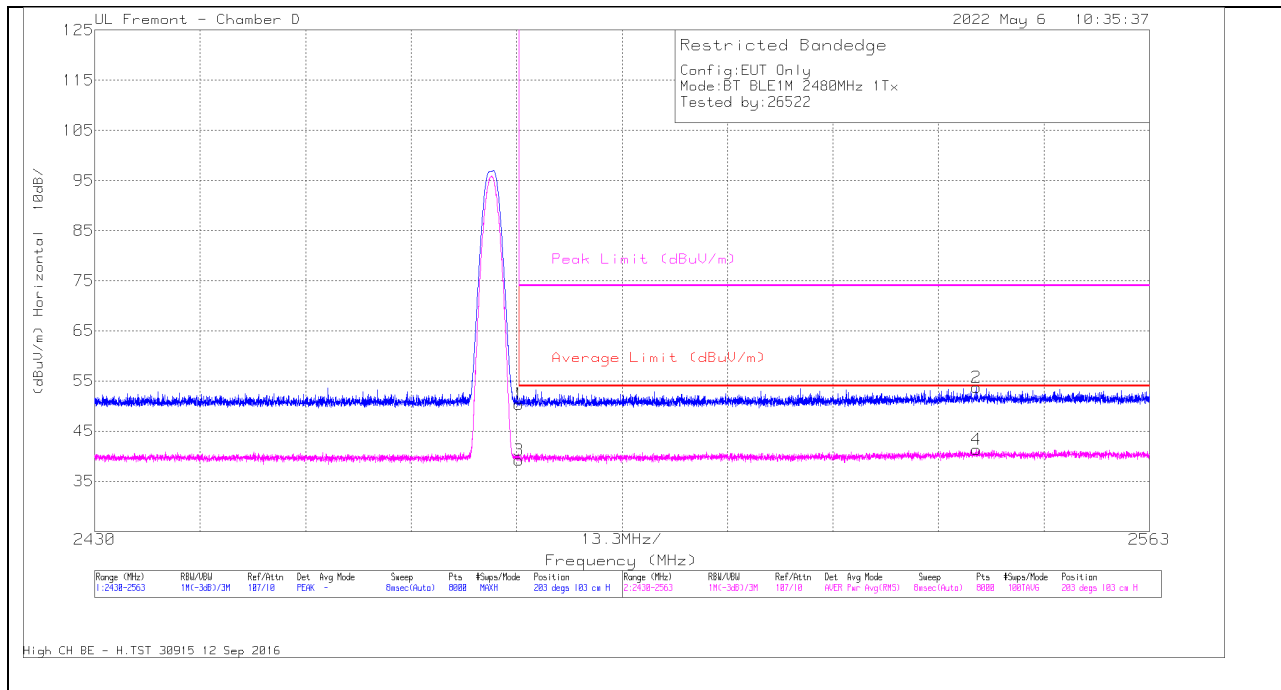


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.67                | Pk  | 32.1              | -20.7                    | 51.07                      | -                      | -           | 74                  | -22.93         | 205            | 127         | V        |
| 2      | * 2347.76       | 41.74                | Pk  | 32.3              | -20.8                    | 53.24                      | -                      | -           | 74                  | -20.76         | 205            | 127         | V        |
| 3      | * 2390          | 28.61                | RMS | 32.1              | -20.7                    | 40.01                      | 54                     | -13.99      | -                   | -              | 205            | 127         | V        |
| 4      | * 2354.631      | 29.83                | RMS | 32.3              | -20.9                    | 41.23                      | 54                     | -12.77      | -                   | -              | 205            | 127         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

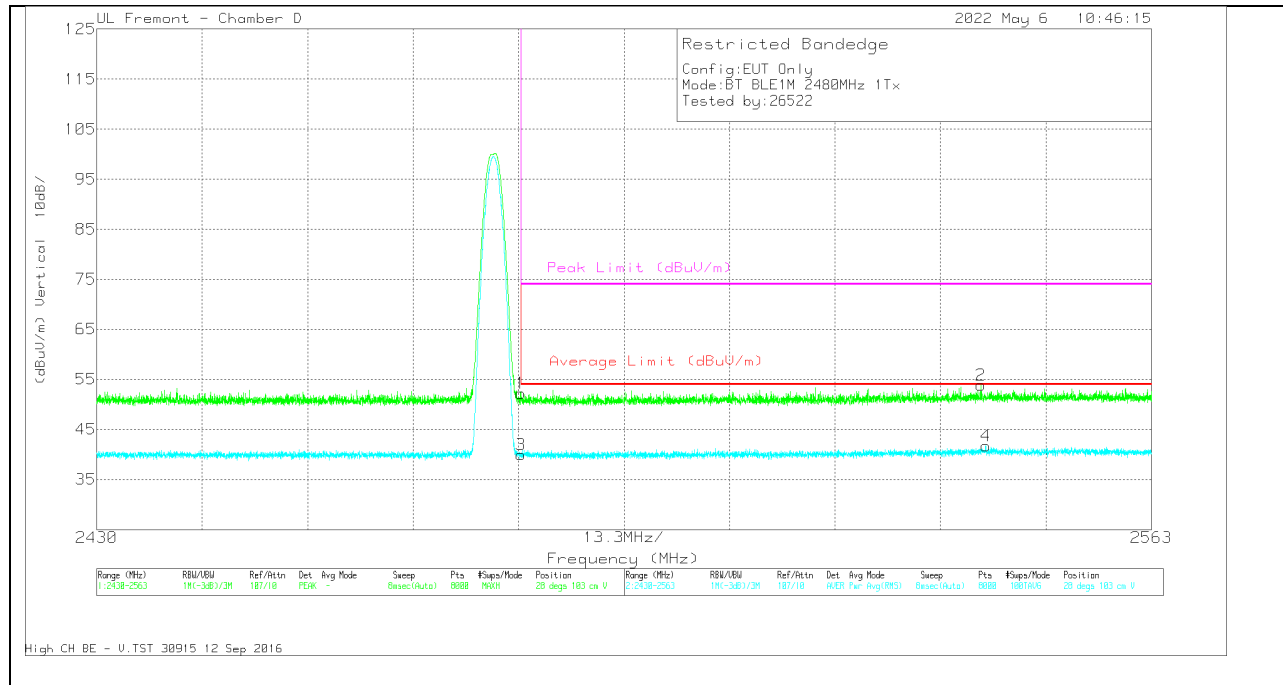
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.1                 | Pk  | 32                | -20.7                    | 50.4                       | -                      | -           | 74                  | -23.6          | 203            | 103         | H        |
| 3      | * 2483.5        | 27.91                | RMS | 32                | -20.7                    | 39.21                      | 54                     | -14.79      | -                   | -              | 203            | 103         | H        |
| 4      | 2541.152        | 29.3                 | RMS | 32.4              | -20.4                    | 41.3                       | 54                     | -12.7       | -                   | -              | 203            | 103         | H        |
| 2      | 2541.185        | 41.72                | Pk  | 32.4              | -20.4                    | 53.72                      | -                      | -           | 74                  | -20.28         | 203            | 103         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (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      | * 2483.5        | 40.95                | Pk  | 32                | -20.7                  | 52.25                      | -                      | -           | 74                  | -21.75         | 28             | 103         | V        |
| 3      | * 2483.5        | 28.71                | RMS | 32                | -20.7                  | 40.01                      | 54                     | -13.99      | -                   | -              | 28             | 103         | V        |
| 2      | 2541.467        | 41.81                | Pk  | 32.4              | -20.4                  | 53.81                      | -                      | -           | 74                  | -20.19         | 28             | 103         | V        |
| 4      | 2542.149        | 29.75                | RMS | 32.4              | -20.4                  | 41.75                      | 54                     | -12.25      | -                   | -              | 28             | 103         | V        |

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

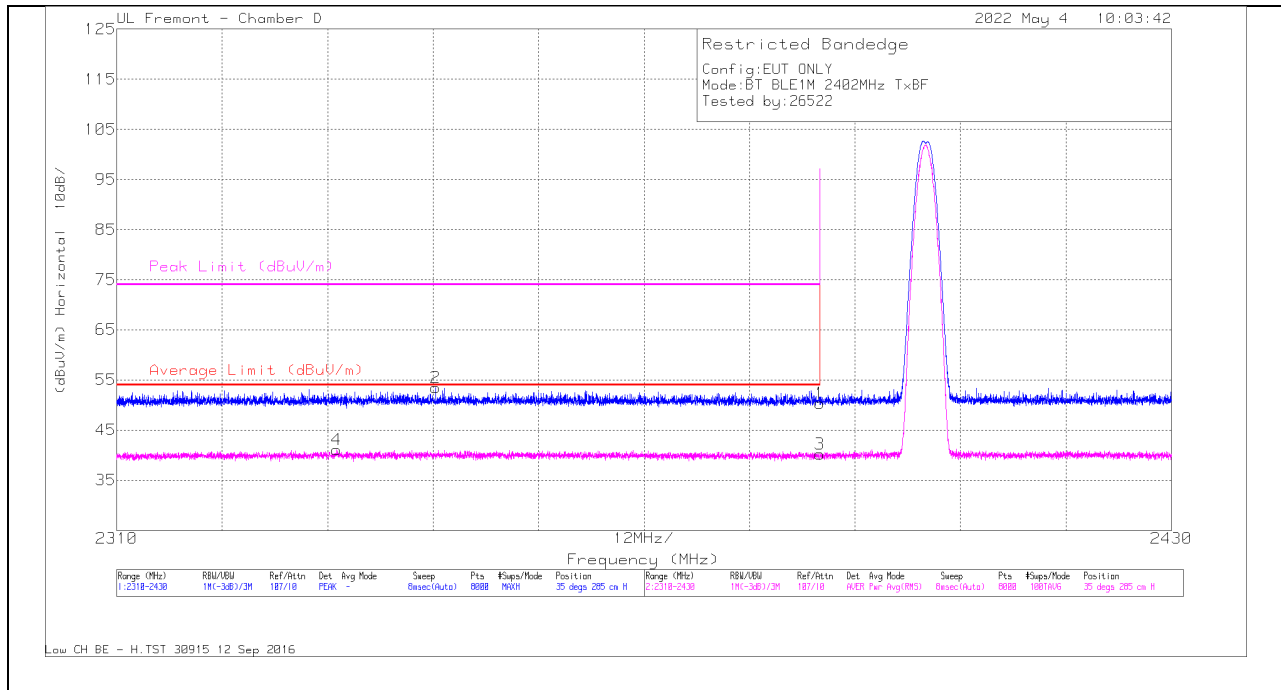
Pk - Peak detector

RMS - RMS detection

## 10.2.2. HIGH POWER BLE TXBF (1Mbps)

## BANDEDGE (LOW CHANNEL)

## HORIZONTAL RESULT



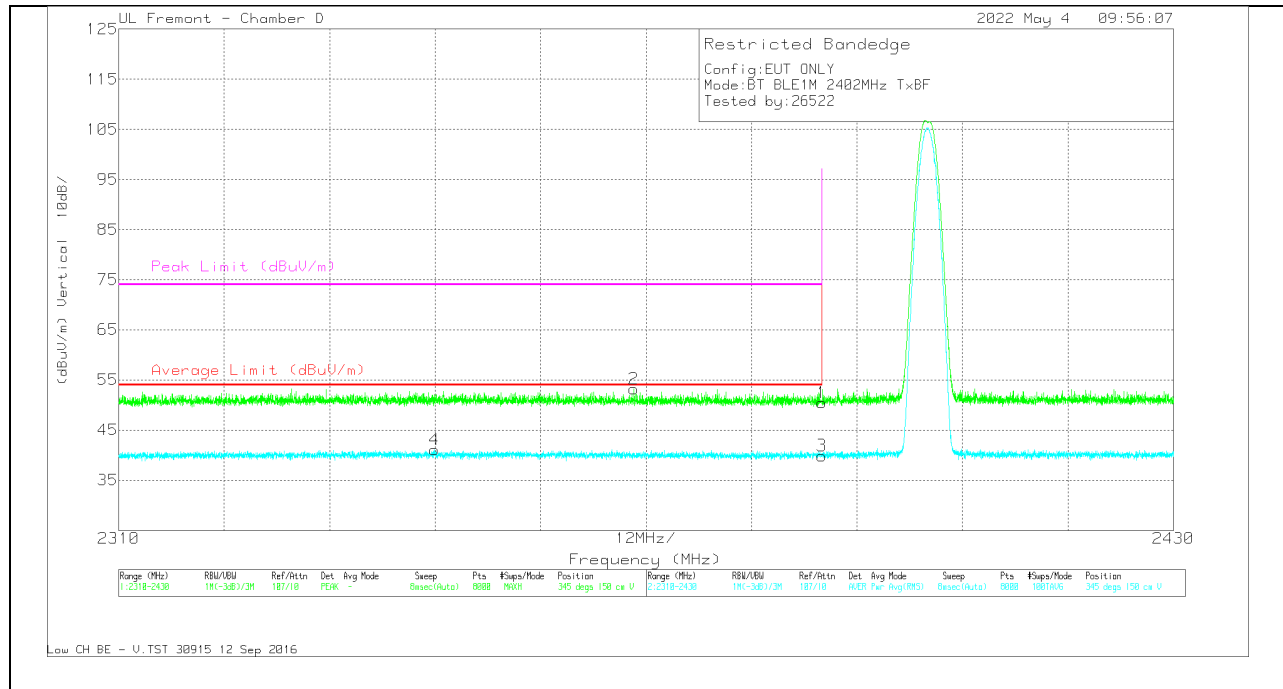
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 38.96                | Pk  | 32.1              | -20.7                   | 50.36                      | -                      | -           | 74                  | -23.64         | 35             | 285         | H        |
| 2      | * 2346.29       | 41.97                | Pk  | 32.3              | -20.8                   | 53.47                      | -                      | -           | 74                  | -20.53         | 35             | 285         | H        |
| 3      | * 2390          | 28.76                | RMS | 32.1              | -20.7                   | 40.16                      | 54                     | -13.84      | -                   | -              | 35             | 285         | H        |
| 4      | * 2335.053      | 29.68                | RMS | 32.3              | -20.9                   | 41.08                      | 54                     | -12.92      | -                   | -              | 35             | 285         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

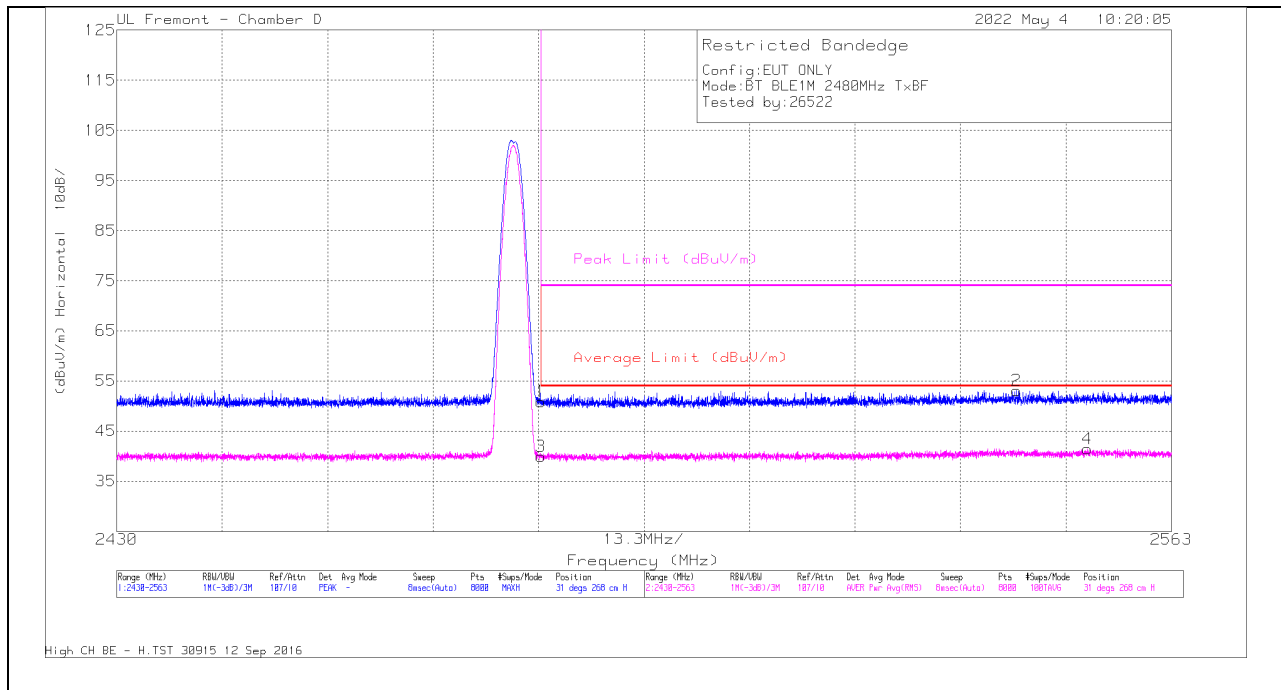


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.04                | Pk  | 32.1              | -20.7                    | 50.44                      | -                      | -           | 74                  | -23.56         | 345            | 150         | V        |
| 2      | * 2368.628      | 41.84                | Pk  | 32.2              | -20.8                    | 53.24                      | -                      | -           | 74                  | -20.76         | 345            | 150         | V        |
| 3      | * 2390          | 28.5                 | RMS | 32.1              | -20.7                    | 39.9                       | 54                     | -14.1       | -                   | -              | 345            | 150         | V        |
| 4      | * 2345.9        | 29.59                | RMS | 32.3              | -20.8                    | 41.09                      | 54                     | -12.91      | -                   | -              | 345            | 150         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

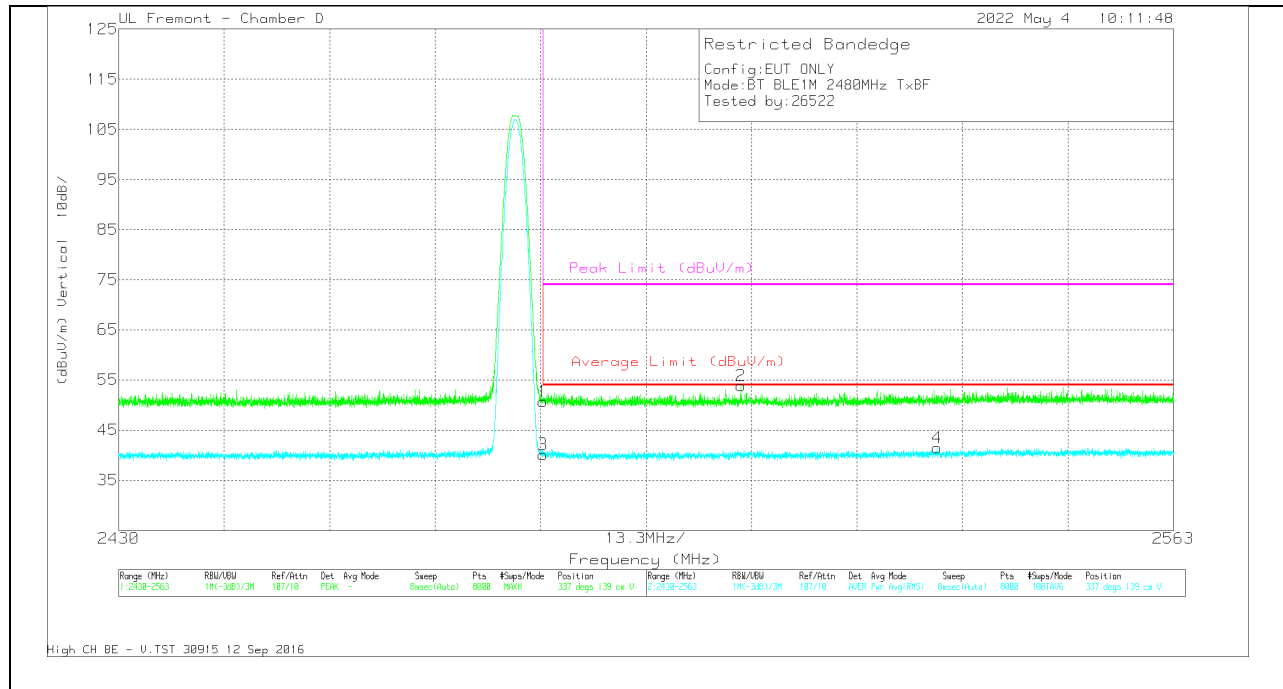
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.6                 | Pk  | 32                | -20.7                   | 50.9                       | -                      | -           | 74                  | -23.1          | 31             | 268         | H        |
| 3      | * 2483.5        | 28.71                | RMS | 32                | -20.7                   | 40.01                      | 54                     | -13.99      | -                   | -              | 31             | 268         | H        |
| 2      | 2543.513        | 41.11                | Pk  | 32.4              | -20.4                   | 53.11                      | -                      | -           | 74                  | -20.89         | 31             | 268         | H        |
| 4      | 2552.391        | 29.4                 | RMS | 32.5              | -20.4                   | 41.5                       | 54                     | -12.5       | -                   | -              | 31             | 268         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/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      | * 2483.5        | 39.43                | Pk  | 32                | -20.7                    | 50.73                      | -                      | -           | 74                  | -23.27         | 337            | 139         | V        |
| 3      | * 2483.5        | 28.84                | RMS | 32                | -20.7                    | 40.14                      | 54                     | -13.86      | -                   | -              | 337            | 139         | V        |
| 2      | 2508.43         | 42.3                 | Pk  | 32.1              | -20.5                    | 53.9                       | -                      | -           | 74                  | -20.1          | 337            | 139         | V        |
| 4      | 2533.171        | 29.72                | RMS | 32.3              | -20.6                    | 41.42                      | 54                     | -12.58      | -                   | -              | 337            | 139         | V        |

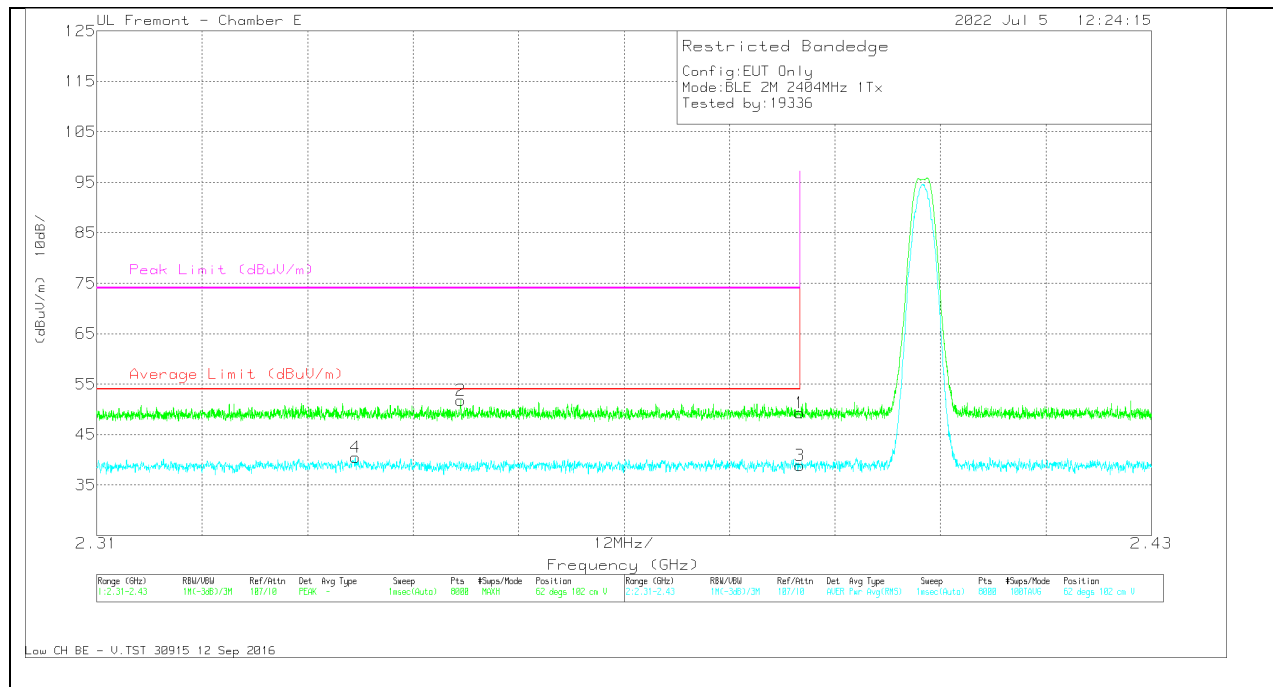
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



## VERTICAL RESULT

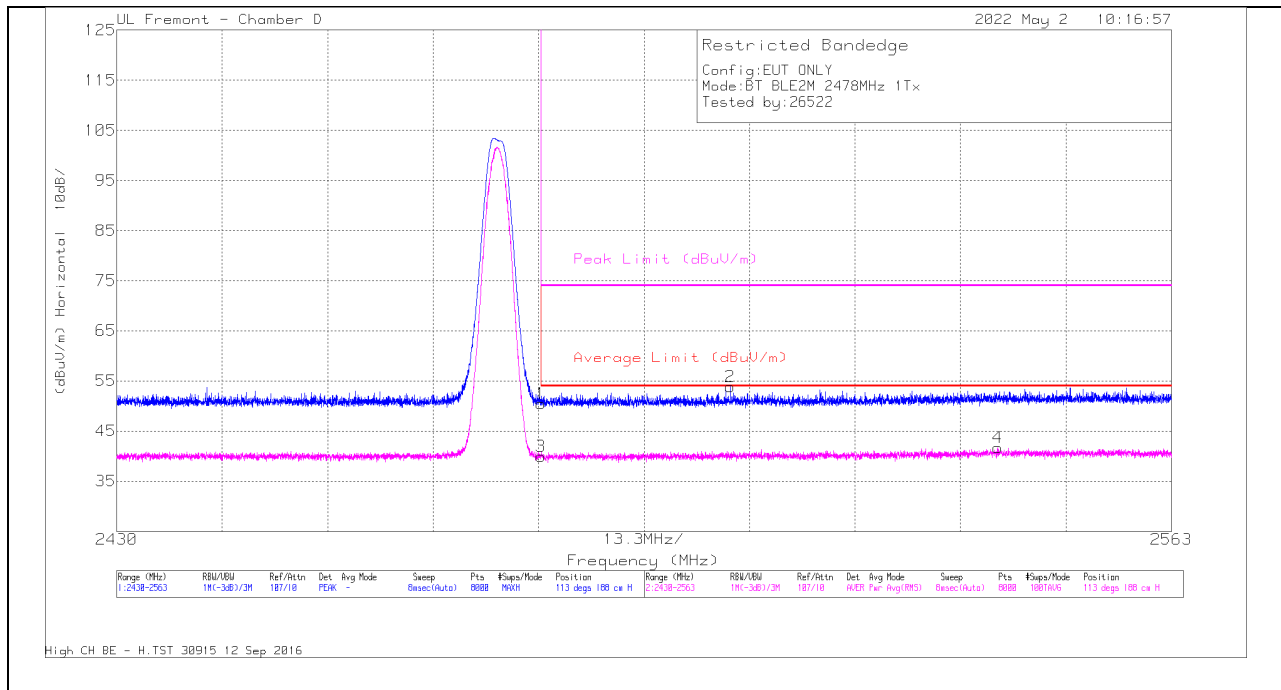


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | Amp/Cbl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4      | * 2.339434      | 34.38                | RMS | 32                | -25.9            | 40.48                      | 54                     | -13.52      | -                   | -              | 62             | 102         | V        |
| 2      | * 2.351421      | 45.7                 | Pk  | 32                | -25.9            | 51.8                       | -                      | -           | 74                  | -22.2          | 62             | 102         | V        |
| 1      | * 2.39          | 43.2                 | Pk  | 32                | -25.9            | 49.3                       | -                      | -           | 74                  | -24.7          | 62             | 102         | V        |
| 3      | * 2.39          | 32.73                | RMS | 32                | -25.9            | 38.83                      | 54                     | -15.17      | -                   | -              | 62             | 102         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

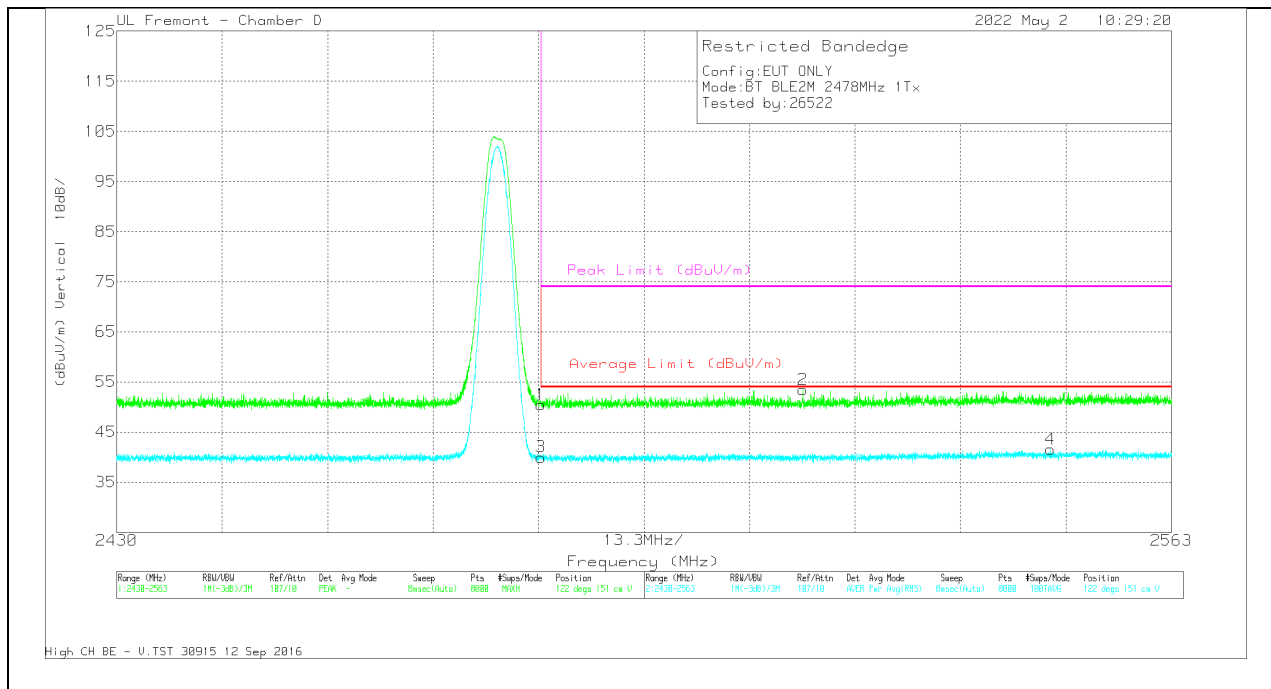
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.15                | Pk  | 32                | -20.7                   | 50.45                      | -                      | -           | 74                  | -23.55         | 113            | 188         | H        |
| 3      | * 2483.5        | 28.66                | RMS | 32                | -20.7                   | 39.96                      | 54                     | -14.04      | -                   | -              | 113            | 188         | H        |
| 2      | 2507.365        | 42.32                | Pk  | 32.1              | -20.6                   | 53.82                      | -                      | -           | 74                  | -20.18         | 113            | 188         | H        |
| 4      | 2541.085        | 29.73                | RMS | 32.4              | -20.4                   | 41.73                      | 54                     | -12.27      | -                   | -              | 113            | 188         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

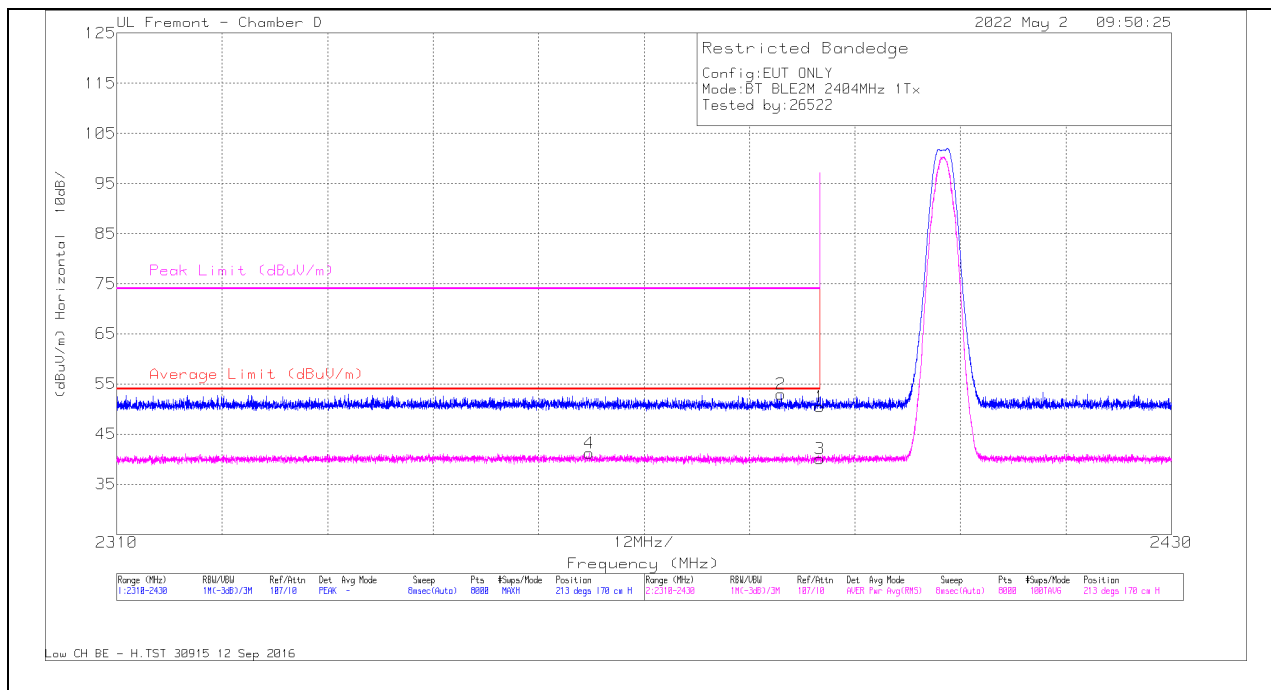


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.18                | Pk  | 32                | -20.7                    | 50.48                      | -                      | -           | 74                  | -23.52         | 122            | 151         | V        |
| 3      | * 2483.5        | 28.73                | RMS | 32                | -20.7                    | 40.03                      | 54                     | -13.97      | -                   | -              | 122            | 151         | V        |
| 2      | 2516.527        | 41.93                | Pk  | 32.2              | -20.7                    | 53.43                      | -                      | -           | 74                  | -20.57         | 122            | 151         | V        |
| 4      | 2547.736        | 29.68                | RMS | 32.4              | -20.5                    | 41.58                      | 54                     | -12.42      | -                   | -              | 122            | 151         | V        |

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

Pk - Peak detector

RMS - RMS detection

**ANT 3****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

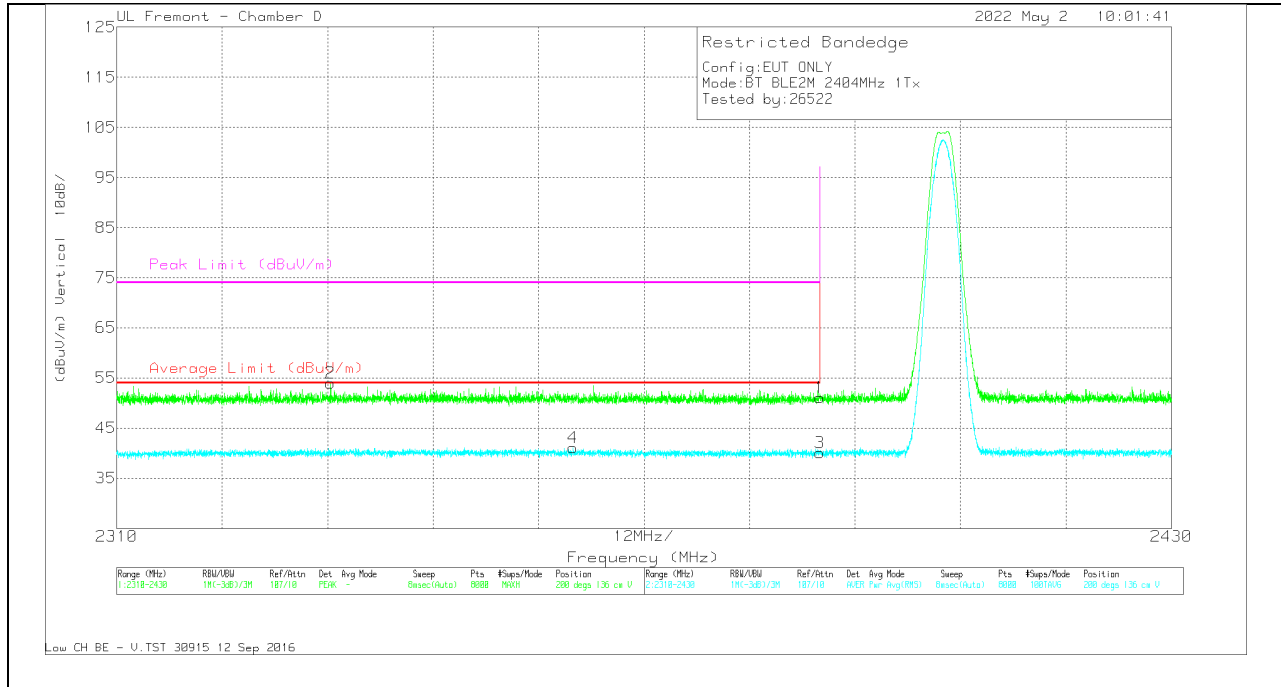
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.12                | Pk  | 32.1              | -20.7                    | 50.52                      | -                      | -           | 74                  | -23.48         | 213            | 170         | H        |
| 2      | * 2385.595      | 41.68                | Pk  | 32.1              | -20.8                    | 52.98                      | -                      | -           | 74                  | -21.02         | 213            | 170         | H        |
| 3      | * 2390          | 28.69                | RMS | 32.1              | -20.7                    | 40.09                      | 54                     | -13.91      | -                   | -              | 213            | 170         | H        |
| 4      | * 2363.722      | 29.7                 | RMS | 32.3              | -20.8                    | 41.2                       | 54                     | -12.8       | -                   | -              | 213            | 170         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

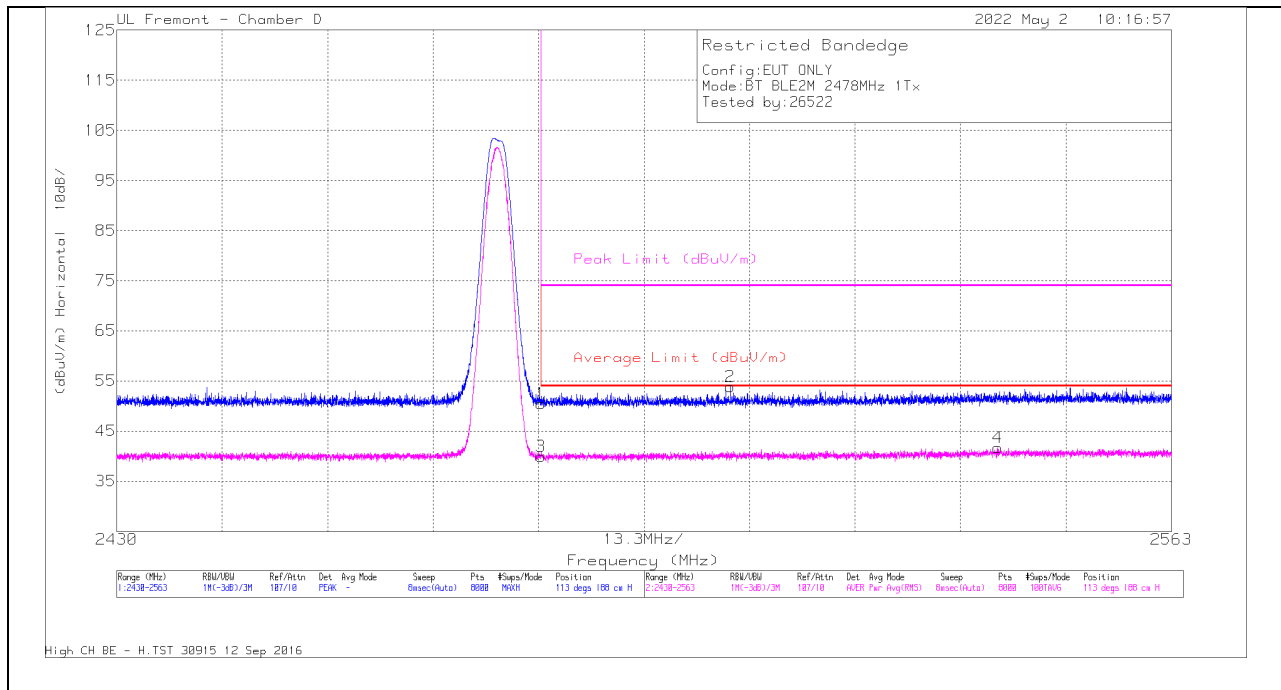


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.65                | Pk  | 32.1              | -20.7                    | 51.05                      | -                      | -           | 74                  | -22.95         | 200            | 136         | V        |
| 2      | * 2334.333      | 42.57                | Pk  | 32.3              | -20.9                    | 53.97                      | -                      | -           | 74                  | -20.03         | 200            | 136         | V        |
| 3      | * 2390          | 28.67                | RMS | 32.1              | -20.7                    | 40.07                      | 54                     | -13.93      | -                   | -              | 200            | 136         | V        |
| 4      | * 2361.922      | 29.58                | RMS | 32.3              | -20.8                    | 41.08                      | 54                     | -12.92      | -                   | -              | 200            | 136         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

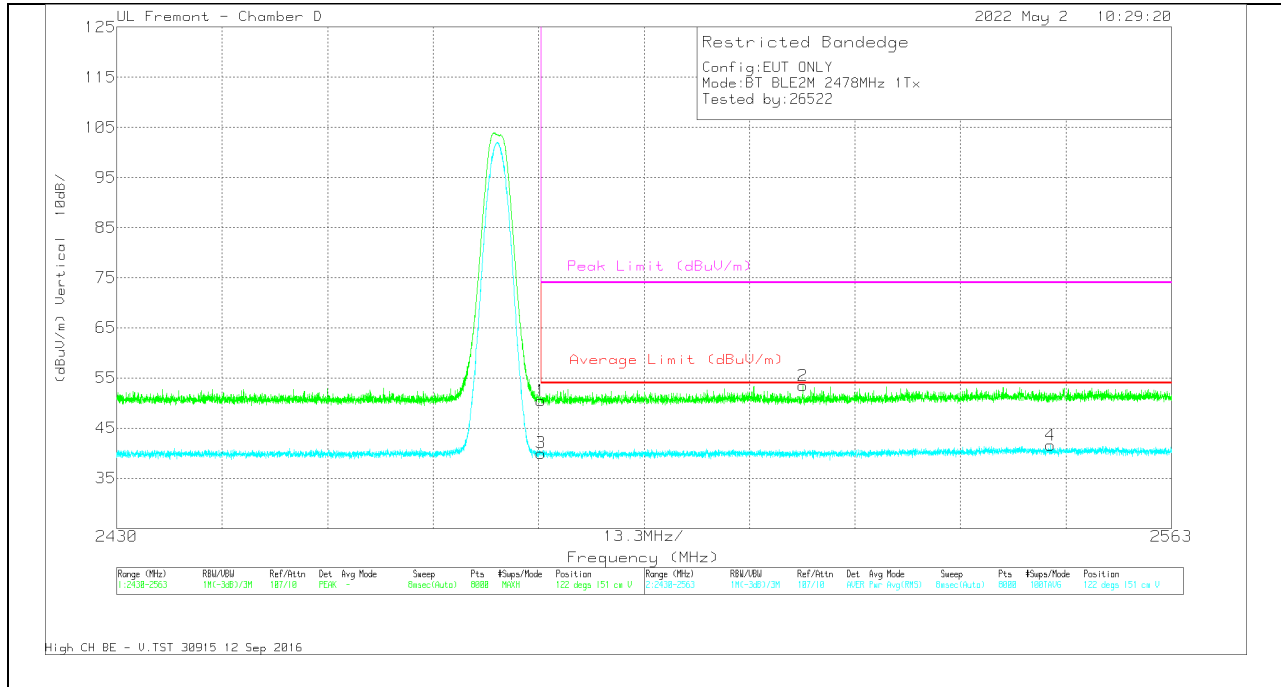
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.15                | Pk  | 32                | -20.7                   | 50.45                      | -                      | -           | 74                  | -23.55         | 113            | 188         | H        |
| 3      | * 2483.5        | 28.66                | RMS | 32                | -20.7                   | 39.96                      | 54                     | -14.04      | -                   | -              | 113            | 188         | H        |
| 2      | 2507.365        | 42.32                | Pk  | 32.1              | -20.6                   | 53.82                      | -                      | -           | 74                  | -20.18         | 113            | 188         | H        |
| 4      | 2541.085        | 29.73                | RMS | 32.4              | -20.4                   | 41.73                      | 54                     | -12.27      | -                   | -              | 113            | 188         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/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      | * 2483.5        | 39.18                | Pk  | 32                | -20.7                    | 50.48                      | -                      | -           | 74                  | -23.52         | 122            | 151         | V        |
| 3      | * 2483.5        | 28.73                | RMS | 32                | -20.7                    | 40.03                      | 54                     | -13.97      | -                   | -              | 122            | 151         | V        |
| 2      | 2516.527        | 41.93                | Pk  | 32.2              | -20.7                    | 53.43                      | -                      | -           | 74                  | -20.57         | 122            | 151         | V        |
| 4      | 2547.736        | 29.68                | RMS | 32.4              | -20.5                    | 41.58                      | 54                     | -12.42      | -                   | -              | 122            | 151         | V        |

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

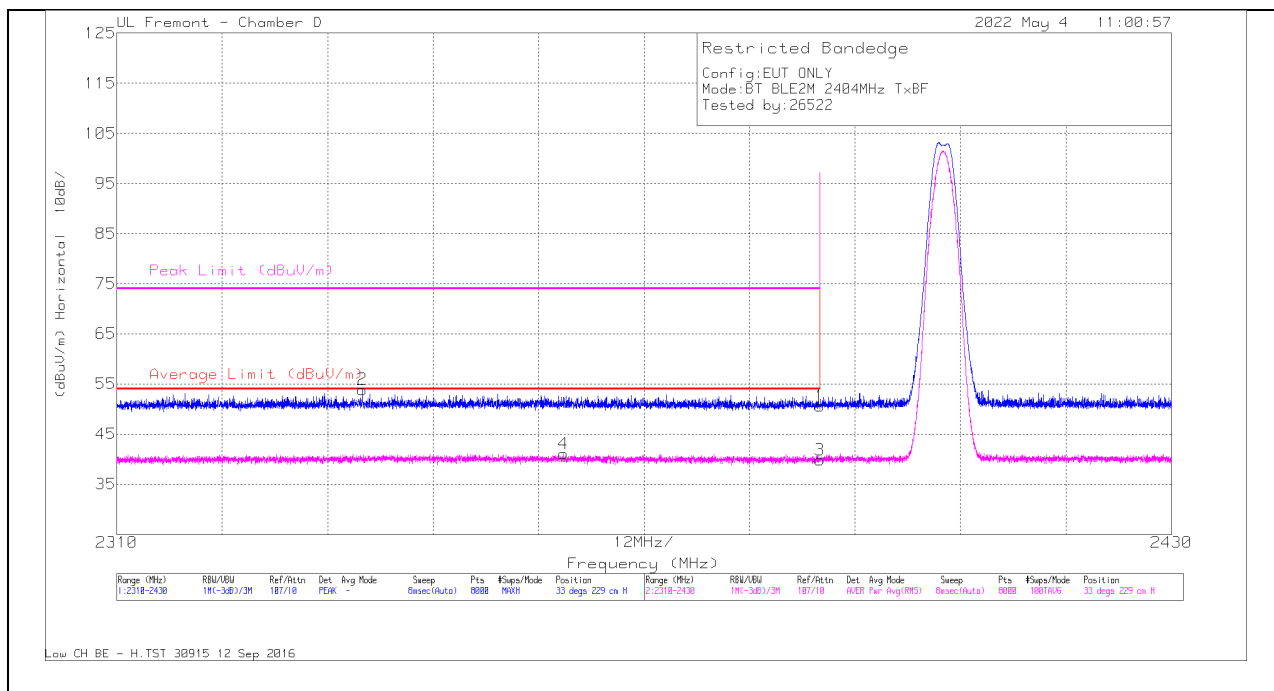
Pk - Peak detector

RMS - RMS detection

## 10.2.4. HIGH POWER BLE TXBF (2Mbps)

## BANDEDGE (LOW CHANNEL)

## HORIZONTAL RESULT



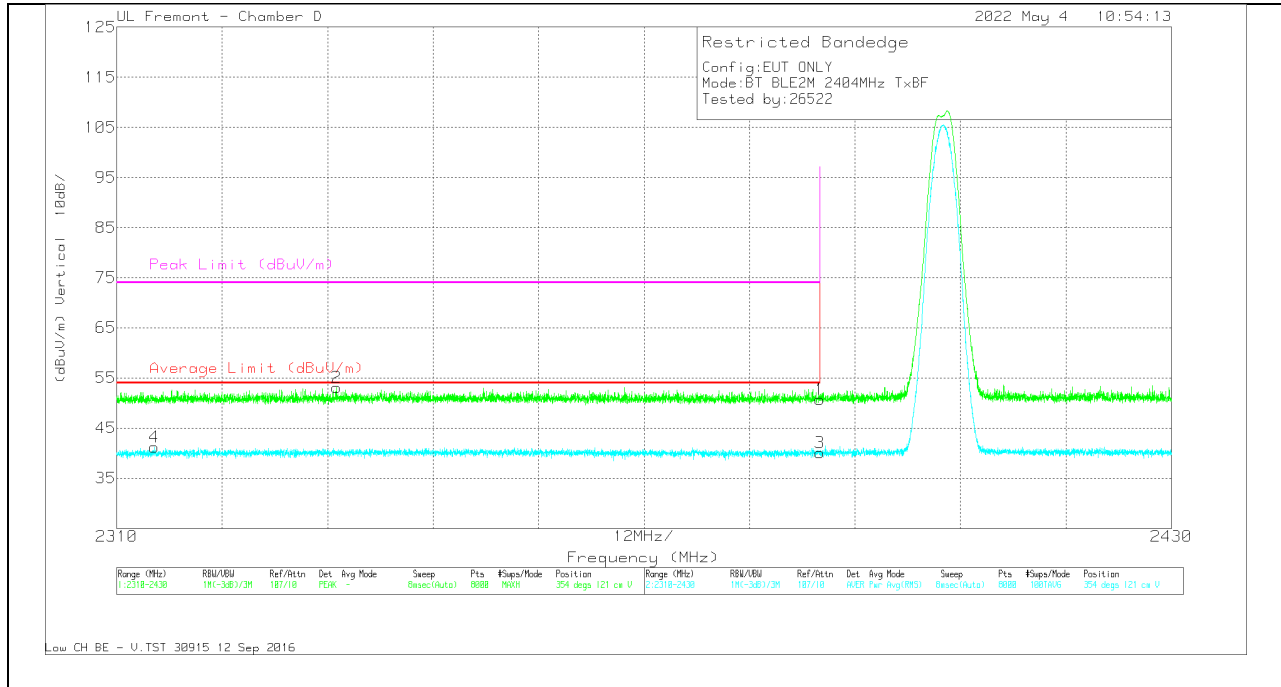
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.15                | Pk  | 32.1              | -20.7                   | 50.55                      | -                      | -           | 74                  | -23.45         | 33             | 229         | H        |
| 2      | * 2337.934      | 42.51                | Pk  | 32.3              | -20.9                   | 53.91                      | -                      | -           | 74                  | -20.09         | 33             | 229         | H        |
| 3      | * 2390          | 28.43                | RMS | 32.1              | -20.7                   | 39.83                      | 54                     | -14.17      | -                   | -              | 33             | 229         | H        |
| 4      | * 2360.812      | 29.62                | RMS | 32.3              | -20.8                   | 41.12                      | 54                     | -12.88      | -                   | -              | 33             | 229         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

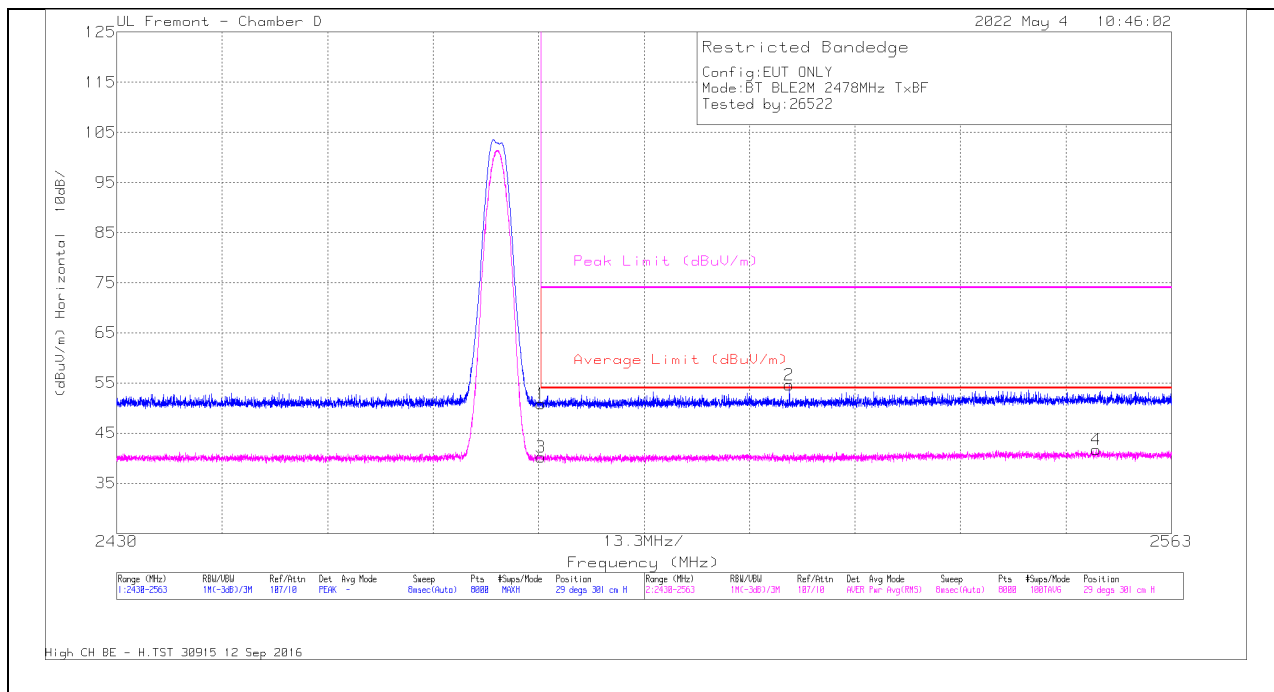


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.31                | Pk  | 32.1              | -20.7                    | 50.71                      | -                      | -           | 74                  | -23.29         | 354            | 121         | V        |
| 2      | * 2334.993      | 41.74                | Pk  | 32.3              | -20.9                    | 53.14                      | -                      | -           | 74                  | -20.86         | 354            | 121         | V        |
| 3      | * 2390          | 28.63                | RMS | 32.1              | -20.7                    | 40.03                      | 54                     | -13.97      | -                   | -              | 354            | 121         | V        |
| 4      | * 2314.276      | 29.99                | RMS | 32.1              | -20.9                    | 41.19                      | 54                     | -12.81      | -                   | -              | 354            | 121         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

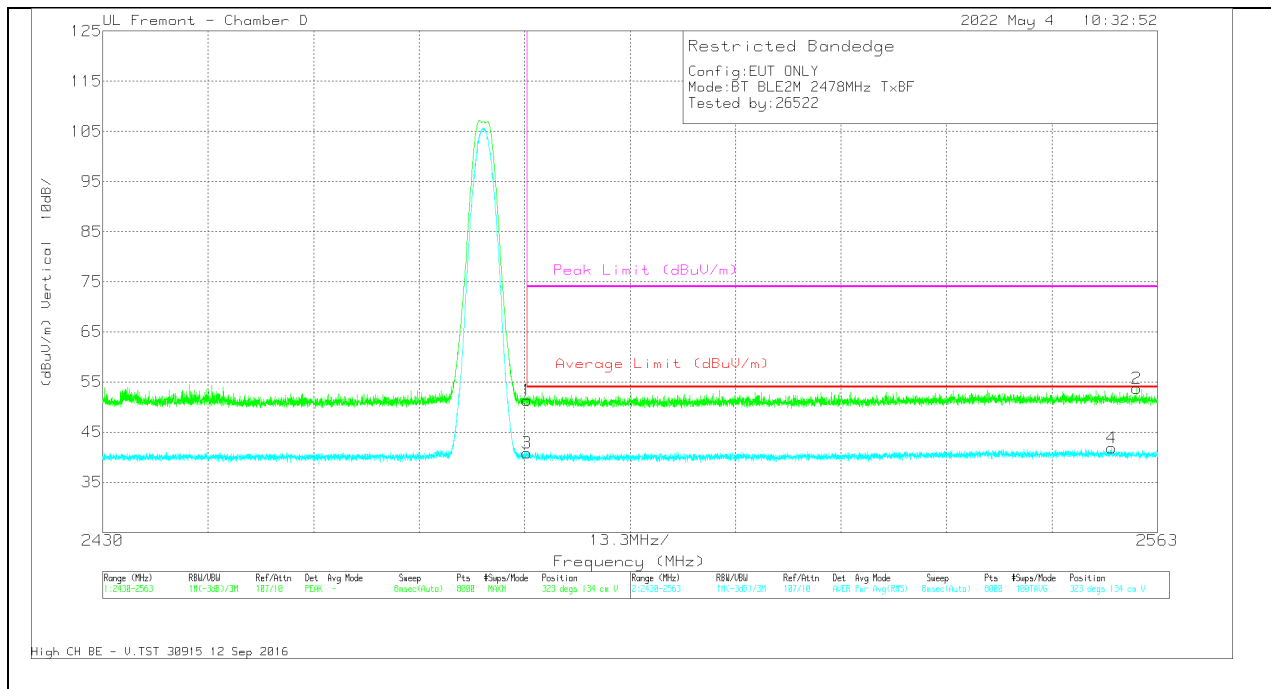
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.55                | Pk  | 32                | -20.7                   | 50.85                      | -                      | -           | 74                  | -23.15         | 29             | 301         | H        |
| 3      | * 2483.5        | 28.88                | RMS | 32                | -20.7                   | 40.18                      | 54                     | -13.82      | -                   | -              | 29             | 301         | H        |
| 2      | 2514.814        | 43.15                | Pk  | 32.1              | -20.7                   | 54.55                      | -                      | -           | 74                  | -19.45         | 29             | 301         | H        |
| 4      | 2553.489        | 29.64                | RMS | 32.5              | -20.4                   | 41.74                      | 54                     | -12.26      | -                   | -              | 29             | 301         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/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      | * 2483.5        | 40.02                | Pk  | 32                | -20.7                    | 51.32                      | -                      | -           | 74                  | -22.68         | 323            | 134         | V        |
| 3      | * 2483.5        | 29.55                | RMS | 32                | -20.7                    | 40.85                      | 54                     | -13.15      | -                   | -              | 323            | 134         | V        |
| 4      | 2557.197        | 29.88                | RMS | 32.5              | -20.5                    | 41.88                      | 54                     | -12.12      | -                   | -              | 323            | 134         | V        |
| 2      | 2560.406        | 41.79                | Pk  | 32.4              | -20.5                    | 53.69                      | -                      | -           | 74                  | -20.31         | 323            | 134         | V        |

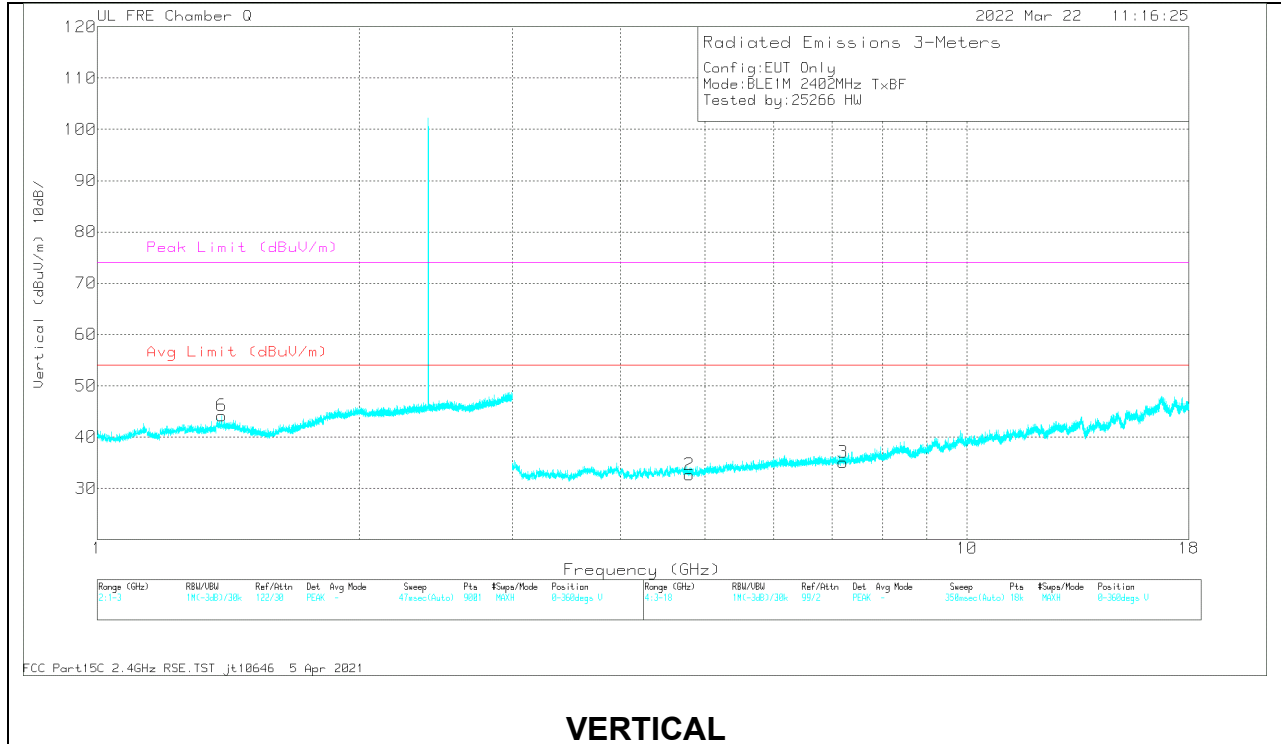
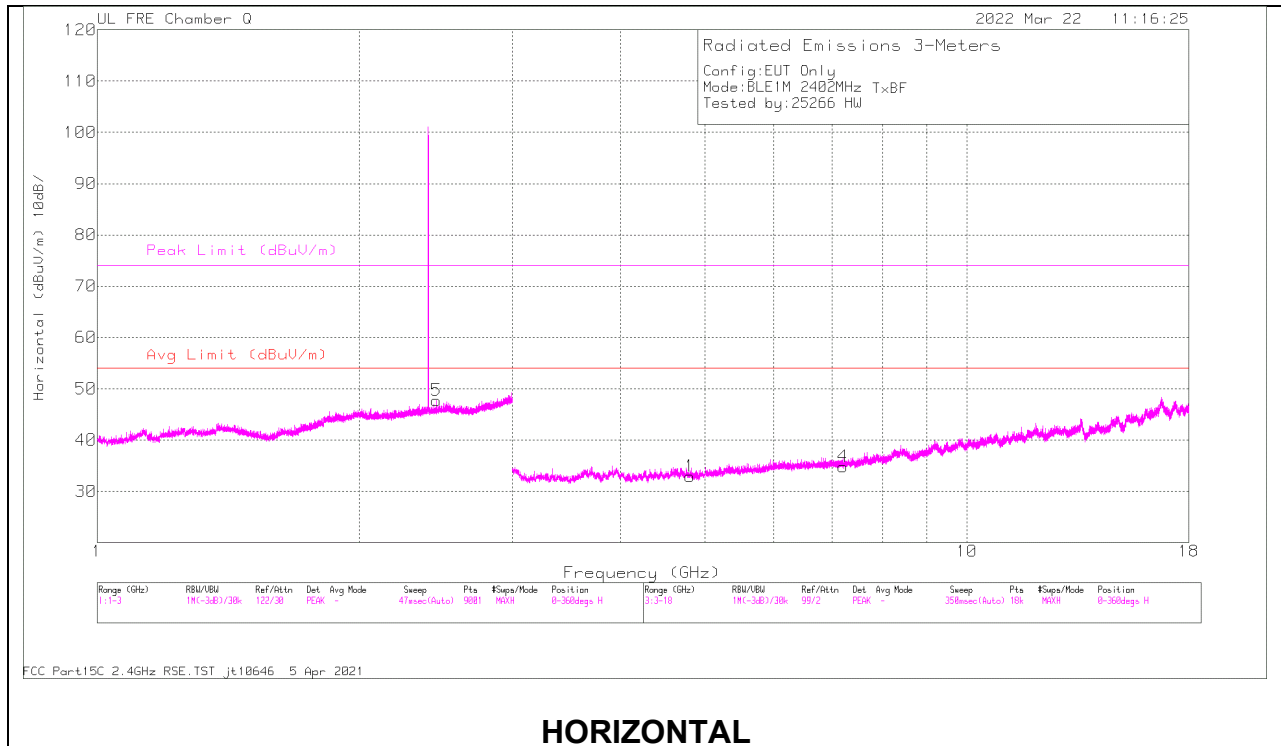
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## 10.2.5. HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**RADIATED EMISSIONS**

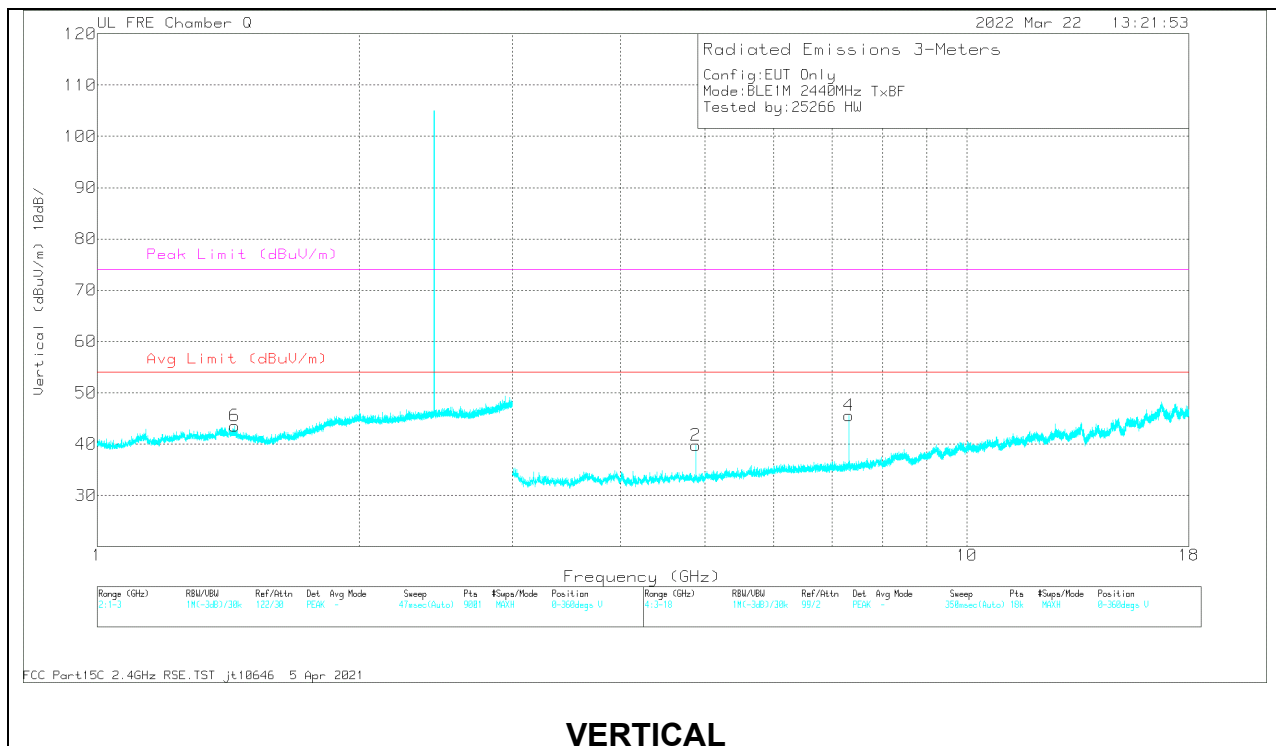
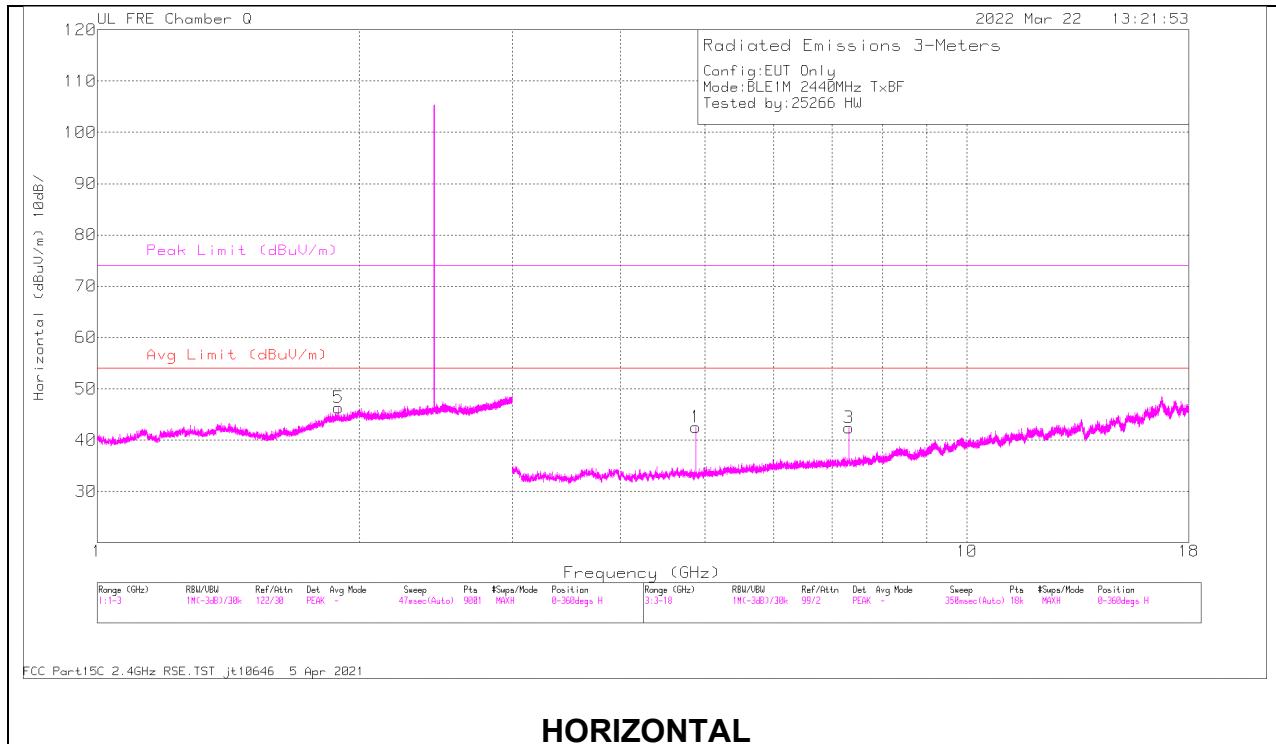
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF 200895 (dB/m) | Amp/Cbl /Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 6      | 1.389689        | 59.64                | PK2  | 28.6             | -35.2                   | 53.04                      | -                  | -           | 74                  | -20.96         | 209            | 208         | V        |
|        | 1.391315        | 47.68                | MAv1 | 28.6             | -35.2                   | 41.08                      | 54                 | -12.92      | -                   | -              | 209            | 208         | V        |
| 5      | *2.457089       | 59.04                | PK2  | 32.3             | -34.3                   | 57.04                      | -                  | -           | -                   | -              | 88             | 171         | H        |
|        | 2.457212        | 47.16                | MAv1 | 32.3             | -34.3                   | 45.16                      | -                  | -           | -                   | -              | 88             | 171         | H        |
| 2      | *4.800021       | 50.51                | PK2  | 34               | -40.8                   | 43.71                      | -                  | -           | 74                  | -30.29         | 16             | 153         | V        |
|        | 4.79976         | 39.23                | MAv1 | 34               | -40.8                   | 32.43                      | 54                 | -21.57      | -                   | -              | 16             | 153         | V        |
| 1      | *4.803773       | 50.88                | PK2  | 34               | -41                     | 43.88                      | -                  | -           | 74                  | -30.12         | 336            | 105         | H        |
|        | 4.804959        | 39.03                | MAv1 | 34               | -41                     | 32.03                      | 54                 | -21.97      | -                   | -              | 336            | 105         | H        |
| 4      | 7.206561        | 48.83                | PK2  | 35.7             | -38                     | 46.53                      | -                  | -           | -                   | -              | 254            | 223         | H        |
|        | 7.206471        | 37.86                | MAv1 | 35.7             | -38                     | 35.56                      | -                  | -           | -                   | -              | 254            | 223         | H        |
| 3      | 7.208019        | 48.47                | PK2  | 35.7             | -38                     | 46.17                      | -                  | -           | -                   | -              | 117            | 222         | V        |
|        | 7.206338        | 36.53                | MAv1 | 35.7             | -38                     | 34.23                      | -                  | -           | -                   | -              | 117            | 222         | V        |

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

## MID CHANNEL RESULTS



**RADIATED EMISSIONS**

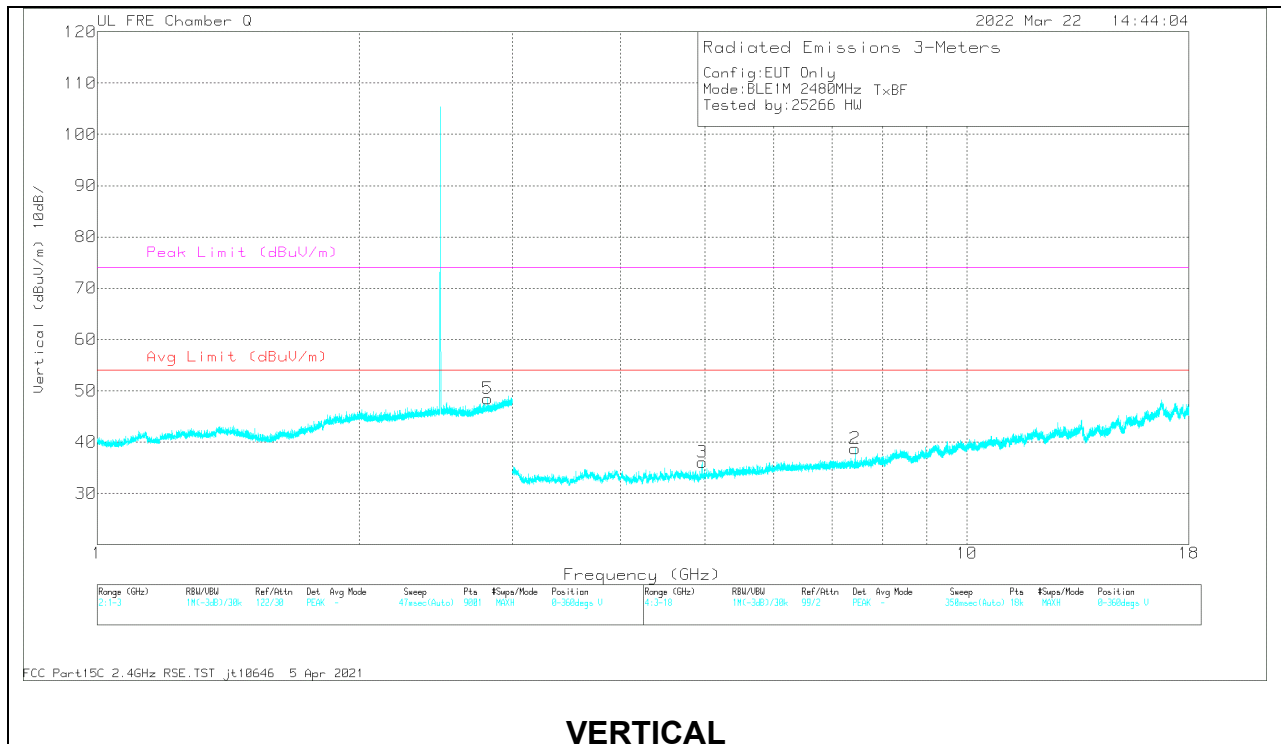
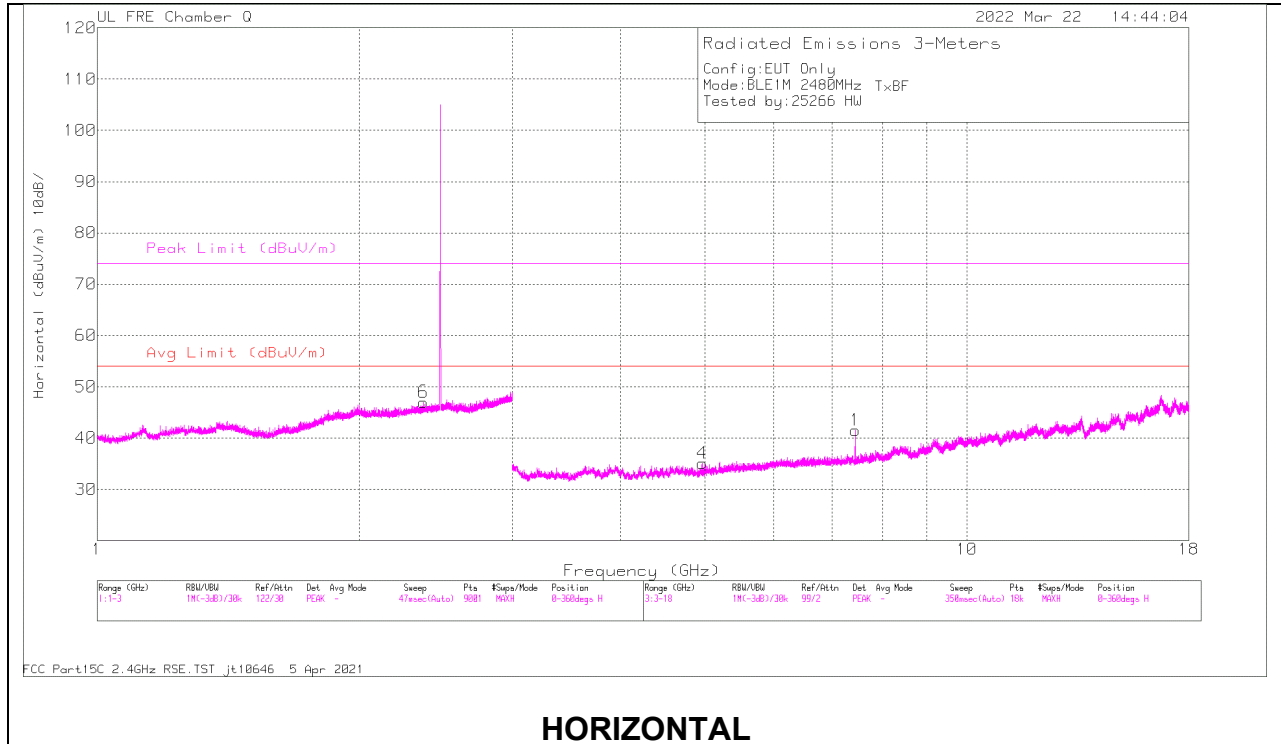
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF 200895 (dB/m) | Amp/Cbl /Filtr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|------------------|-------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 6      | *1.441378       | 47.84                | MAv1 | 28.3             | -35                     | 41.14                      | 54                 | -12.86      | -                   | -              | 74             | 102         | V        |
|        | *1.441514       | 59.46                | PK2  | 28.3             | -35.1                   | 52.66                      | -                  | -           | 74                  | -21.34         | 74             | 102         | V        |
| 5      | 1.893746        | 58.5                 | PK2  | 31.1             | -34.6                   | 55                         | -                  | -           | -                   | -              | 204            | 176         | H        |
|        | 1.893029        | 46.93                | MAv1 | 31.1             | -34.6                   | 43.43                      | -                  | -           | -                   | -              | 204            | 176         | H        |
| 2      | *4.879362       | 51.04                | PK2  | 33.9             | -41.3                   | 43.64                      | -                  | -           | 74                  | -30.36         | 4              | 238         | V        |
|        | *4.879738       | 40.07                | MAv1 | 33.9             | -41.4                   | 32.57                      | 54                 | -21.43      | -                   | -              | 4              | 238         | V        |
| 1      | *4.879658       | 52.24                | PK2  | 33.9             | -41.4                   | 44.74                      | -                  | -           | 74                  | -29.26         | 33             | 108         | H        |
|        | *4.879754       | 41.93                | MAv1 | 33.9             | -41.4                   | 34.43                      | 54                 | -19.57      | -                   | -              | 33             | 108         | H        |
| 4      | *7.31989        | 49.16                | PK2  | 35.7             | -37.7                   | 47.16                      | -                  | -           | 74                  | -26.84         | 1              | 243         | V        |
|        | *7.320134       | 38.55                | MAv1 | 35.7             | -37.7                   | 36.55                      | 54                 | -17.45      | -                   | -              | 1              | 243         | V        |
| 3      | *7.32017        | 48.84                | PK2  | 35.7             | -37.7                   | 46.84                      | -                  | -           | 74                  | -27.16         | 319            | 230         | H        |
|        | *7.320126       | 37.8                 | MAv1 | 35.7             | -37.7                   | 35.8                       | 54                 | -18.2       | -                   | -              | 319            | 230         | H        |

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

## HIGH CHANNEL RESULTS



**RADIATED EMISSIONS**

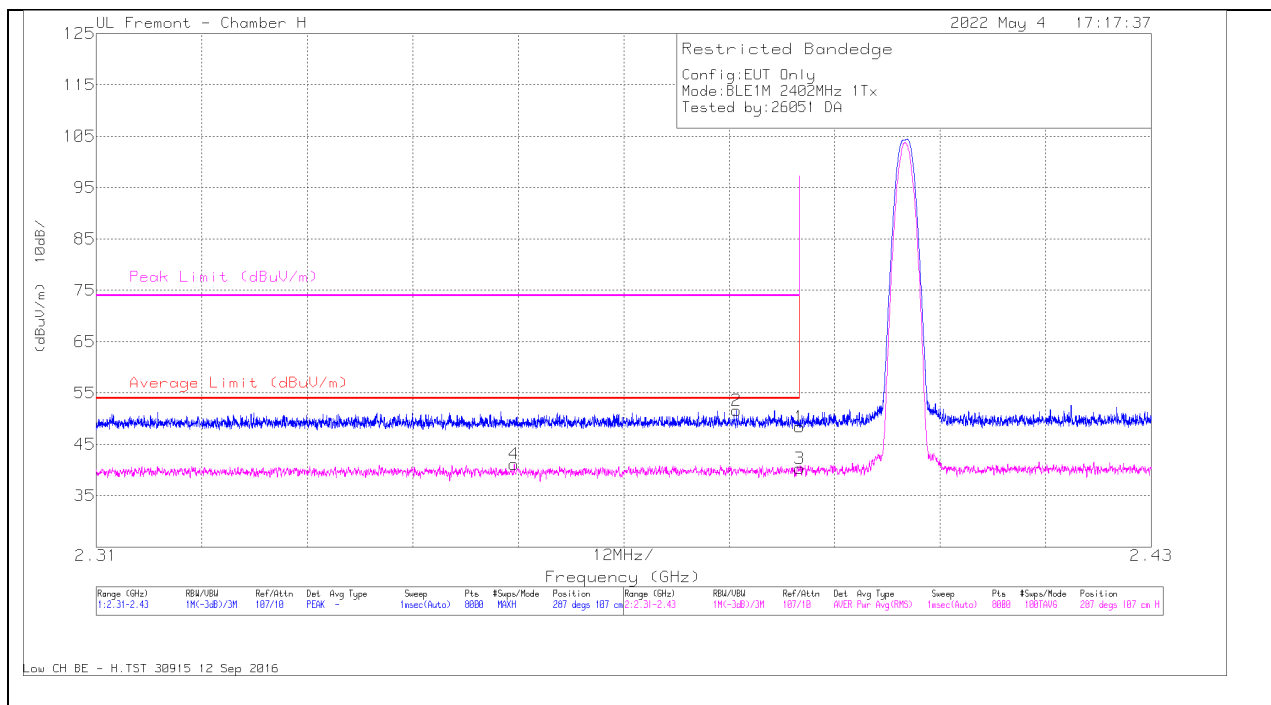
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF 200895 (dB/m) | Amp/Cbl/Fi tr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarization |
|--------|-----------------|----------------------|------|------------------|------------------------|----------------------------|--------------------|-------------|---------------------|----------------|----------------|-------------|--------------|
| 6      | *2.369293       | 57.88                | PK2  | 31.9             | -34.4                  | 55.38                      | -                  | -           | 74                  | -18.62         | 137            | 302         | H            |
|        | *2.371159       | 46.59                | MAv1 | 31.9             | -34.4                  | 44.09                      | 54                 | -9.91       | -                   | -              | 137            | 302         | H            |
| 5      | *2.811651       | 58.46                | PK2  | 32.3             | -33.8                  | 56.96                      | -                  | -           | 74                  | -17.04         | 66             | 264         | V            |
|        | *2.81098        | 46.83                | MAv1 | 32.3             | -33.8                  | 45.33                      | 54                 | -8.67       | -                   | -              | 66             | 264         | V            |
| 3      | *4.960473       | 52.75                | PK2  | 33.9             | -41.3                  | 45.35                      | -                  | -           | 74                  | -28.65         | 16             | 193         | V            |
|        | *4.960326       | 42.82                | MAv1 | 33.9             | -41.3                  | 35.42                      | 54                 | -18.58      | -                   | -              | 16             | 193         | V            |
| 4      | *4.960729       | 51.93                | PK2  | 33.9             | -41.3                  | 44.53                      | -                  | -           | 74                  | -29.47         | 276            | 183         | H            |
|        | *4.960318       | 41.35                | MAv1 | 33.9             | -41.3                  | 33.95                      | 54                 | -20.05      | -                   | -              | 276            | 183         | H            |
| 2      | *7.43891        | 49.57                | PK2  | 35.7             | -37.7                  | 47.57                      | -                  | -           | 74                  | -26.43         | 212            | 212         | V            |
|        | *7.439465       | 39.57                | MAv1 | 35.7             | -37.7                  | 37.57                      | 54                 | -16.43      | -                   | -              | 212            | 212         | V            |
| 1      | *7.440198       | 48.58                | PK2  | 35.7             | -37.7                  | 46.58                      | -                  | -           | 74                  | -27.42         | 133            | 362         | H            |
|        | *7.439219       | 37.68                | MAv1 | 35.7             | -37.7                  | 35.68                      | 54                 | -18.32      | -                   | -              | 133            | 362         | H            |

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

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

## 10.2.6. LOW POWER BLE (1Mbps)

**ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

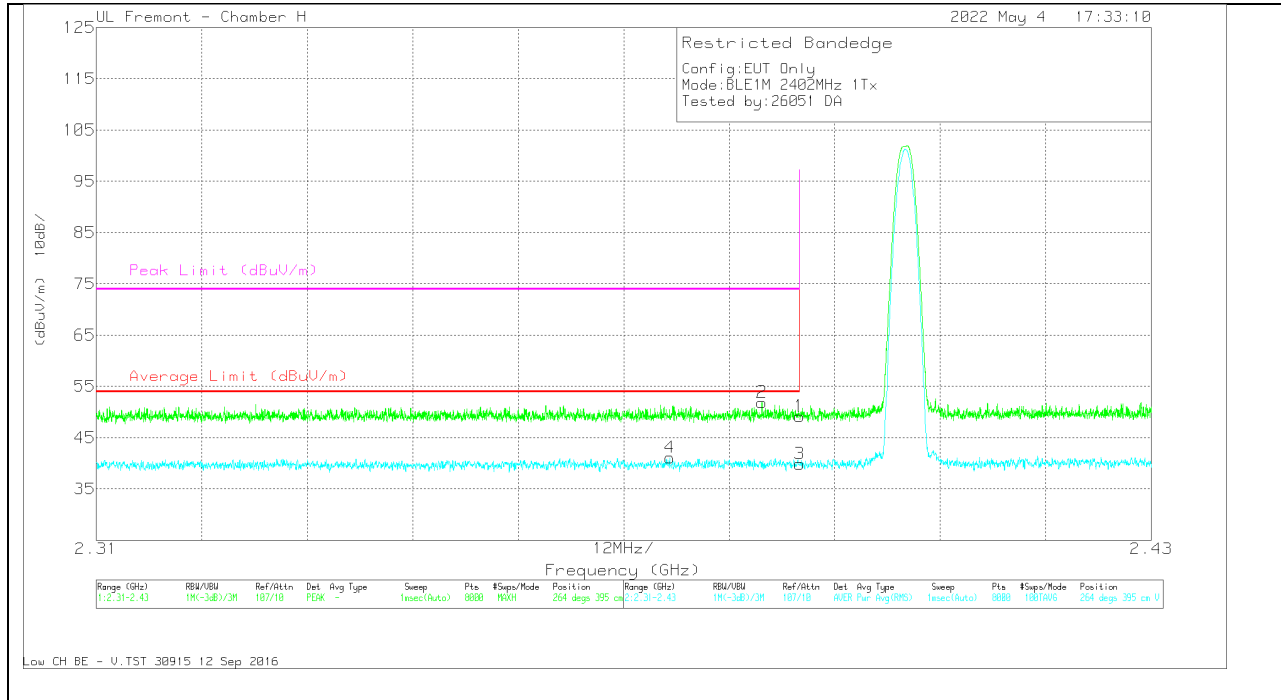
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 44.1                 | Pk  | 32              | -27.7             | 48.4                       | -                      | -           | 74                  | -25.6          | 287            | 107         | H        |
| 2      | * 2.382835      | 47.39                | Pk  | 32              | -27.8             | 51.59                      | -                      | -           | 74                  | -22.41         | 287            | 107         | H        |
| 3      | * 2.39          | 35.99                | RMS | 32              | -27.7             | 40.29                      | 54                     | -13.71      | -                   | -              | 287            | 107         | H        |
| 4      | * 2.357541      | 36.82                | RMS | 31.9            | -27.6             | 41.12                      | 54                     | -12.88      | -                   | -              | 287            | 107         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

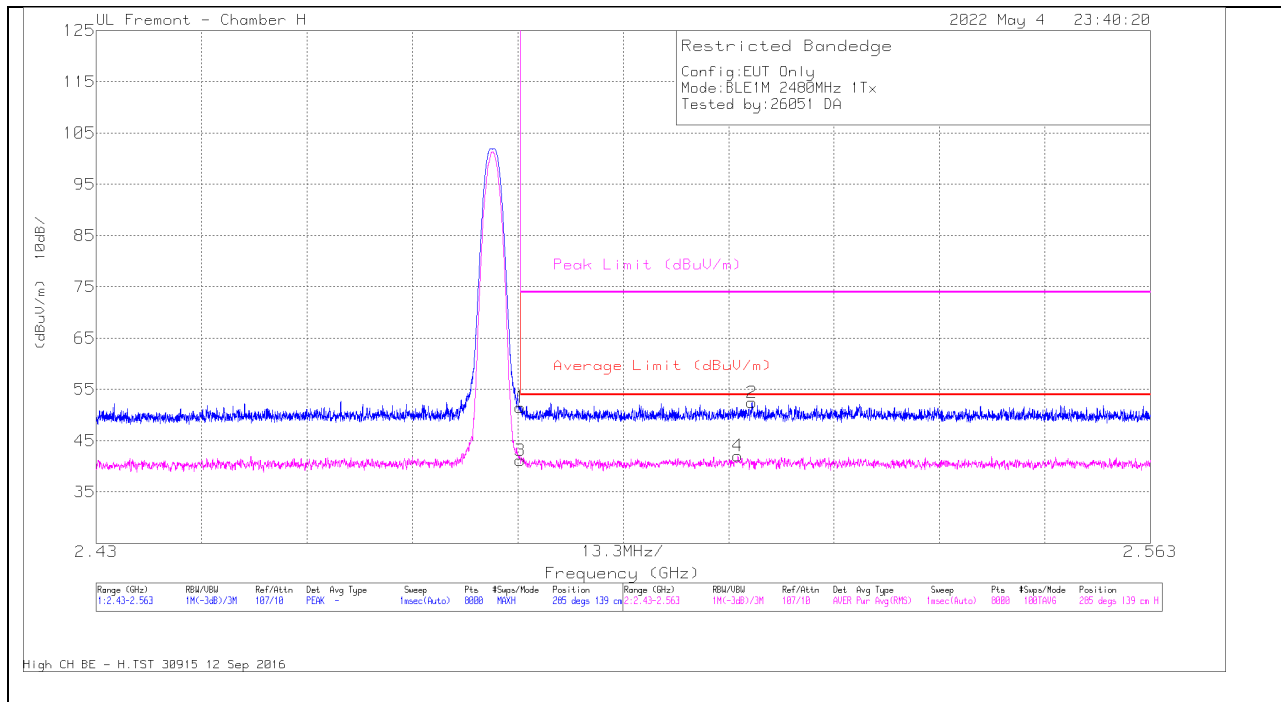


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 44.87                | Pk  | 32              | -27.7             | 49.17                      | -                      | -           | 74                  | -24.83         | 264            | 395         | V        |
| 2      | * 2.385715      | 47.68                | Pk  | 32              | -27.8             | 51.88                      | -                      | -           | 74                  | -22.12         | 264            | 395         | V        |
| 3      | * 2.39          | 35.6                 | RMS | 32              | -27.7             | 39.9                       | 54                     | -14.1       | -                   | -              | 264            | 395         | V        |
| 4      | * 2.375229      | 36.71                | RMS | 32              | -27.6             | 41.11                      | 54                     | -12.89      | -                   | -              | 264            | 395         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

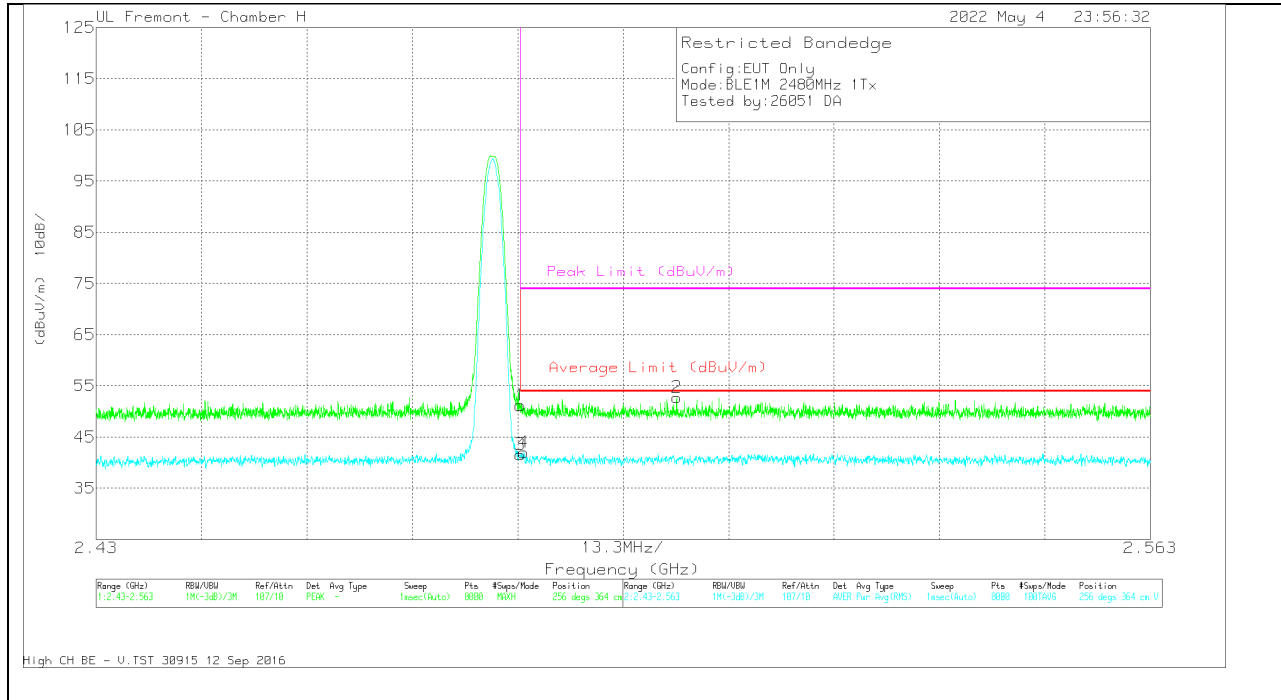
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C b/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.4835        | 46.59                | PK  | 32.7            | -27.8            | 51.49                      | -                      | -           | 74                  | -22.51         | 285            | 139         | H        |
| 3      | * 2.4835        | 36.27                | RMS | 32.7            | -27.8            | 41.17                      | 54                     | -12.83      | -                   | -              | 285            | 139         | H        |
| 4      | 2.510957        | 37.06                | RMS | 32.8            | -27.8            | 42.06                      | 54                     | -11.94      | -                   | -              | 285            | 139         | H        |
| 2      | 2.512736        | 47.44                | PK  | 32.8            | -27.8            | 52.44                      | -                      | -           | 74                  | -21.56         | 285            | 139         | H        |

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

PK - Peak detector

RMS - RMS detection

## VERTICAL RESULT

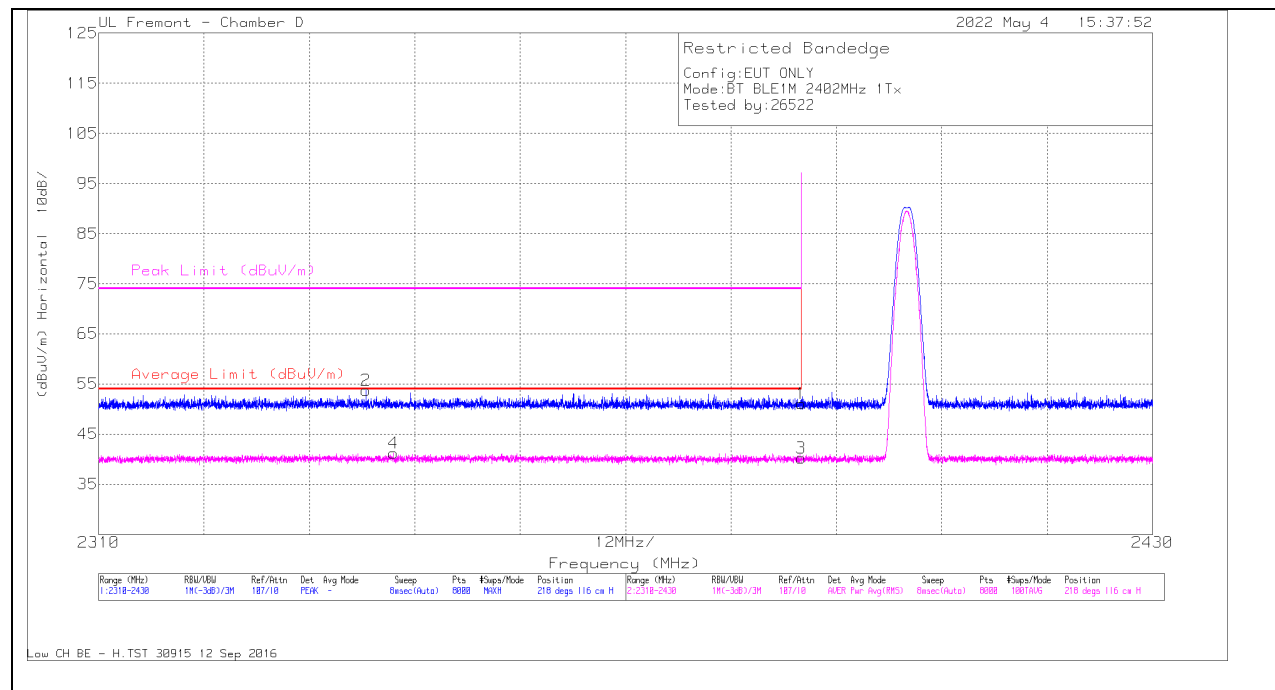


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarization |
|--------|-----------------|----------------------|-----|-----------------|-------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|--------------|
| 1      | * 2.4835        | 46.29                | Pk  | 32.7            | -27.8             | 0            | 51.19                      | -                      | -           | 74                  | -22.81         | 256            | 364         | V            |
| 3      | * 2.4835        | 36.66                | RMS | 32.7            | -27.8             | 0            | 41.56                      | 54                     | -12.44      | -                   | -              | 256            | 364         | V            |
| 4      | * 2.483955      | 37.08                | RMS | 32.7            | -27.8             | 0            | 41.98                      | 54                     | -12.02      | -                   | -              | 256            | 364         | V            |
| 2      | 2.503242        | 47.82                | Pk  | 32.8            | -27.9             | 0            | 52.72                      | -                      | -           | 74                  | -21.28         | 256            | 364         | V            |

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

Pk - Peak detector

RMS - RMS detection

**ANT 3****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

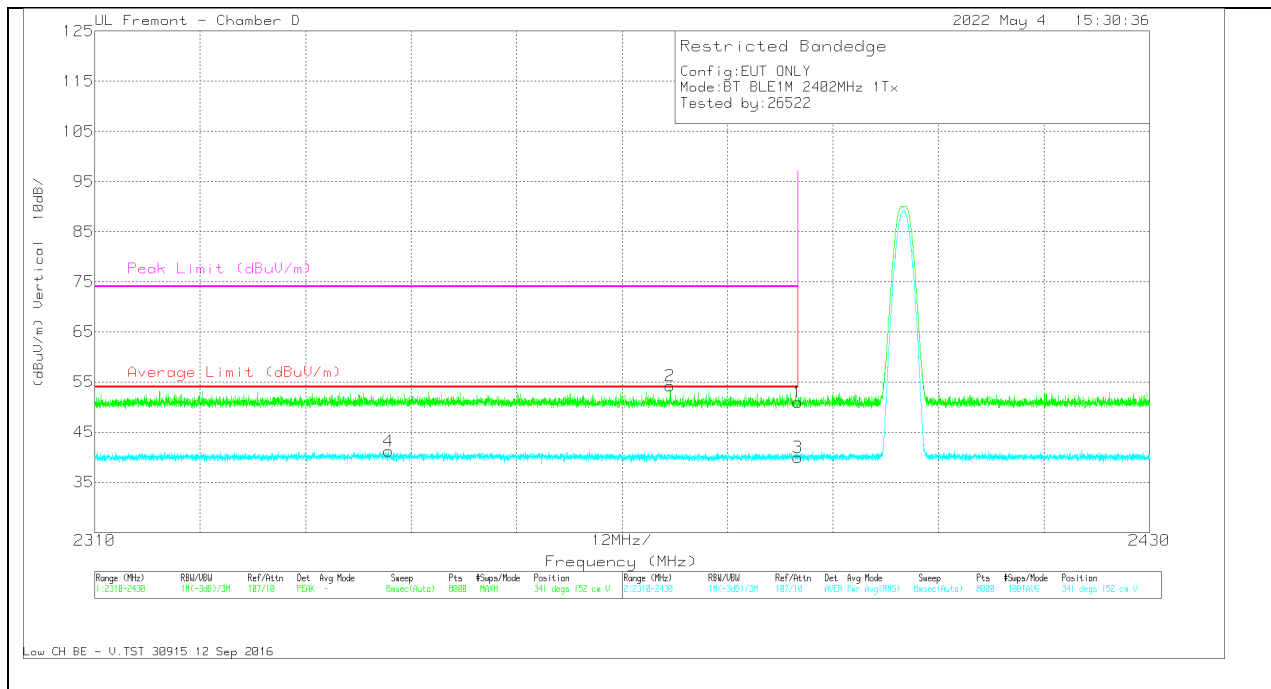
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.7                 | Pk  | 32.1              | -20.7                    | 51.1                       | -                      | -           | 74                  | -22.9          | 218            | 116         | H        |
| 2      | * 2340.454      | 42.27                | Pk  | 32.3              | -20.9                    | 53.67                      | -                      | -           | 74                  | -20.33         | 218            | 116         | H        |
| 3      | * 2390          | 28.85                | RMS | 32.1              | -20.7                    | 40.25                      | 54                     | -13.75      | -                   | -              | 218            | 116         | H        |
| 4      | * 2343.574      | 29.69                | RMS | 32.3              | -20.8                    | 41.19                      | 54                     | -12.81      | -                   | -              | 218            | 116         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

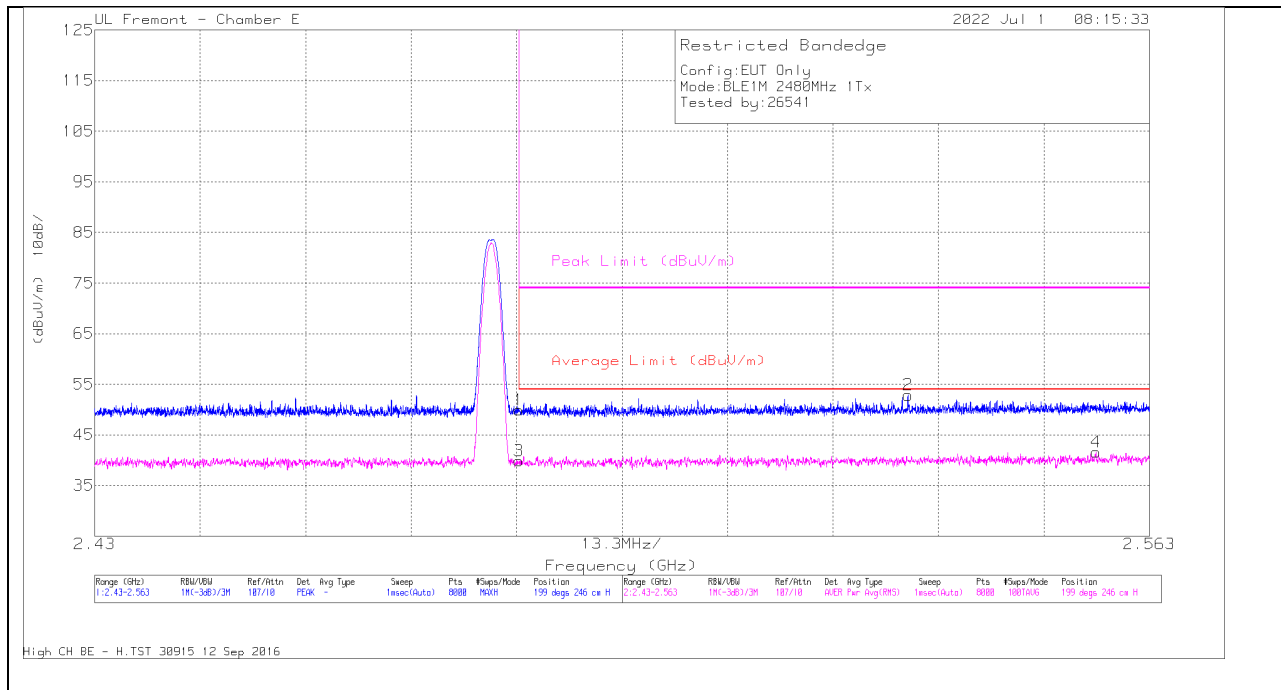


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.52                | Pk  | 32.1              | -20.7                    | 50.92                      | -                      | -           | 74                  | -23.08         | 341            | 152         | V        |
| 2      | * 2375.484      | 42.67                | Pk  | 32.2              | -20.7                    | 54.17                      | -                      | -           | 74                  | -19.83         | 341            | 152         | V        |
| 3      | * 2390          | 28.59                | RMS | 32.1              | -20.7                    | 39.99                      | 54                     | -14.01      | -                   | -              | 341            | 152         | V        |
| 4      | * 2343.409      | 29.66                | RMS | 32.3              | -20.8                    | 41.16                      | 54                     | -12.84      | -                   | -              | 341            | 152         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

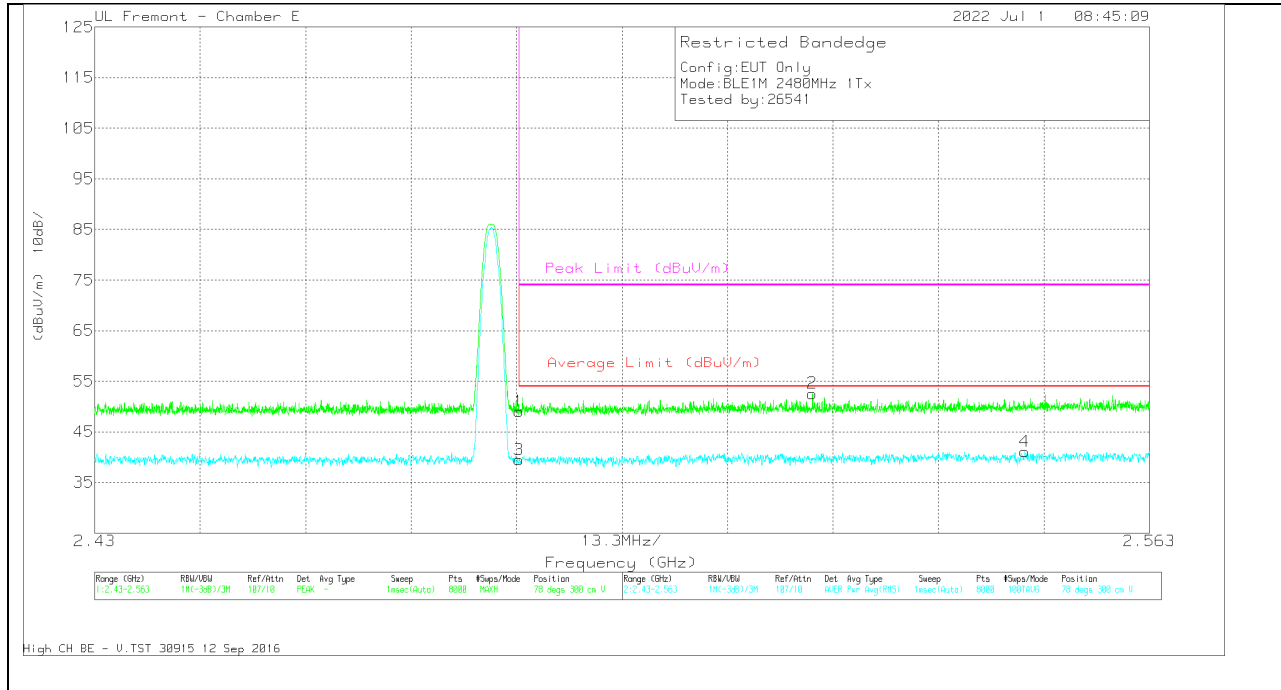
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | Amp/Cbl/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.4835        | 44.07                | Pk  | 31.8              | -25.9             | 49.97                      | -                      | -           | 74                  | -24.03         | 199            | 246         | H        |
| 3      | * 2.4835        | 33.92                | RMS | 31.8              | -25.9             | 39.82                      | 54                     | -14.18      | -                   | -              | 199            | 246         | H        |
| 2      | 2.532539        | 46.64                | Pk  | 32.2              | -26               | 52.84                      | -                      | -           | 74                  | -21.16         | 199            | 246         | H        |
| 4      | 2.556265        | 35.13                | RMS | 32.4              | -25.9             | 41.63                      | 54                     | -12.37      | -                   | -              | 199            | 246         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | Amp/Cbl/ 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      | * 2.4835        | 43.14                | Pk  | 31.8              | -25.9             | 49.04                      | -                      | -           | 74                  | -24.96         | 78             | 300         | V        |
| 3      | * 2.4835        | 33.59                | RMS | 31.8              | -25.9             | 39.49                      | 54                     | -14.51      | -                   | -              | 78             | 300         | V        |
| 2      | 2.520517        | 46.49                | Pk  | 32.1              | -26               | 52.59                      | -                      | -           | 74                  | -21.41         | 78             | 300         | V        |
| 4      | 2.547287        | 34.71                | RMS | 32.3              | -25.9             | 41.11                      | 54                     | -12.89      | -                   | -              | 78             | 300         | V        |

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

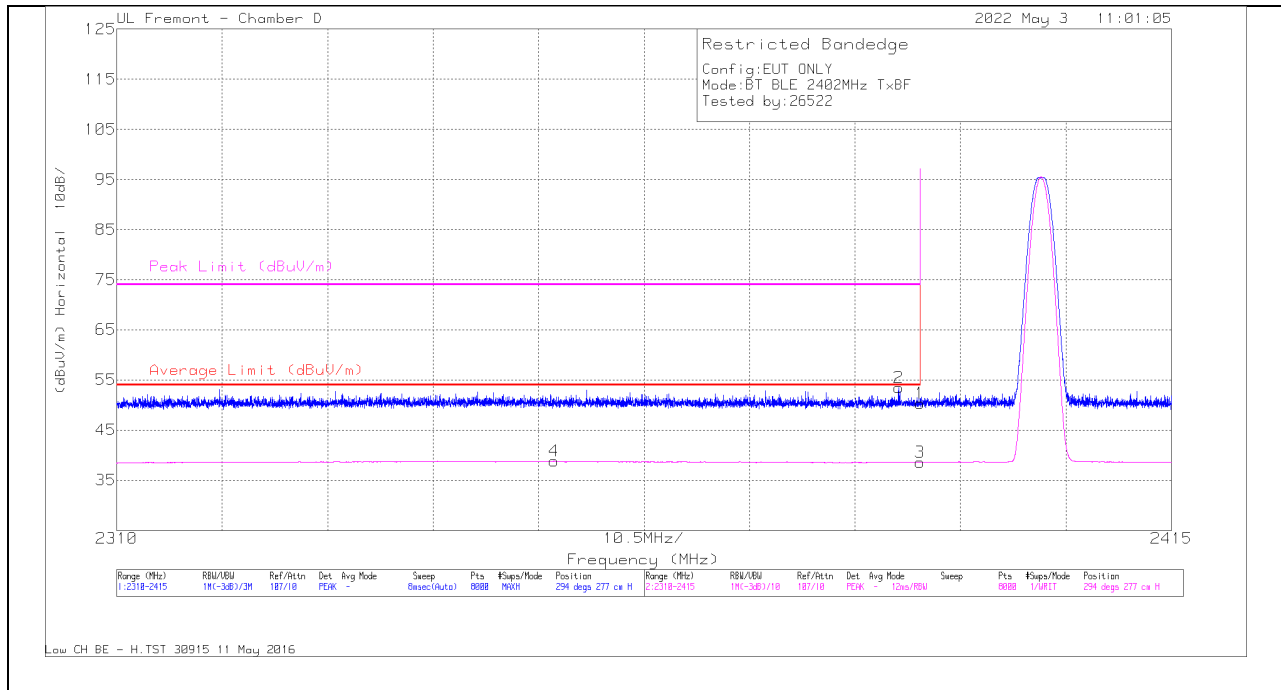
Pk - Peak detector

RMS - RMS detection

## 10.2.7. LOW POWER BLE TXBF (1Mbps)

## BANDEDGE (LOW CHANNEL)

## HORIZONTAL RESULT

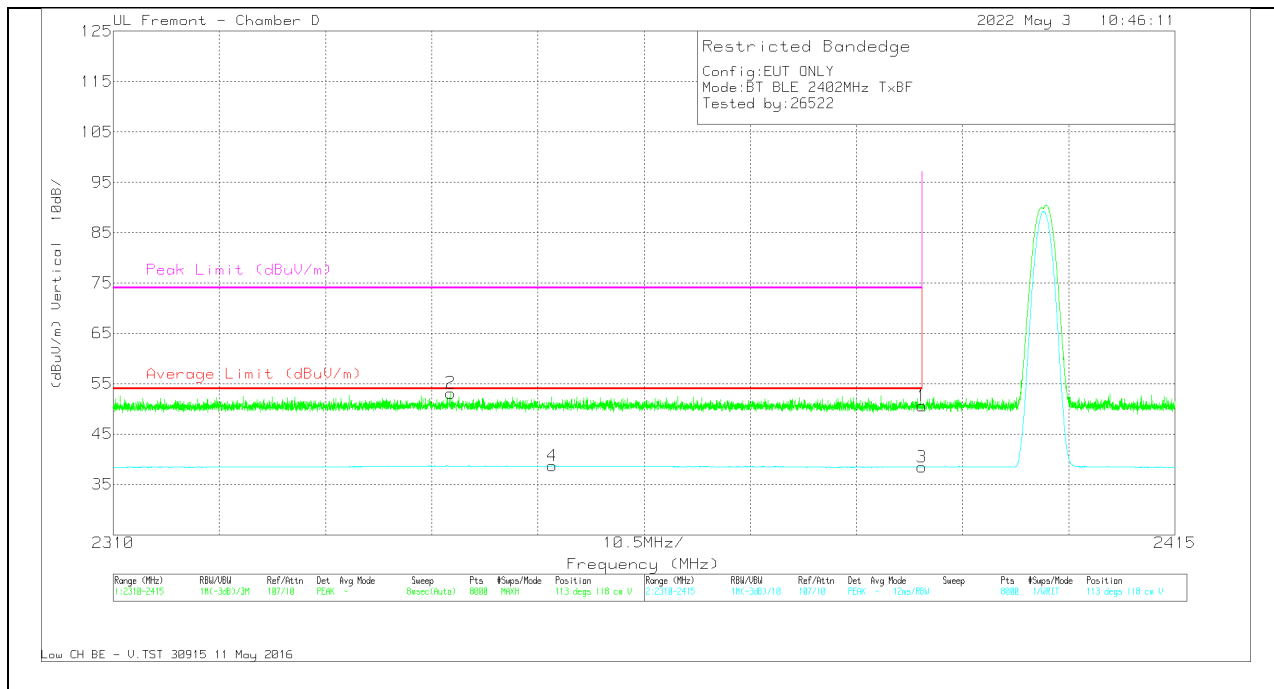


\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average  $V_B = 1/T_{on}$  where:  $T_{on}$  is transmit duration

## VERTICAL RESULT

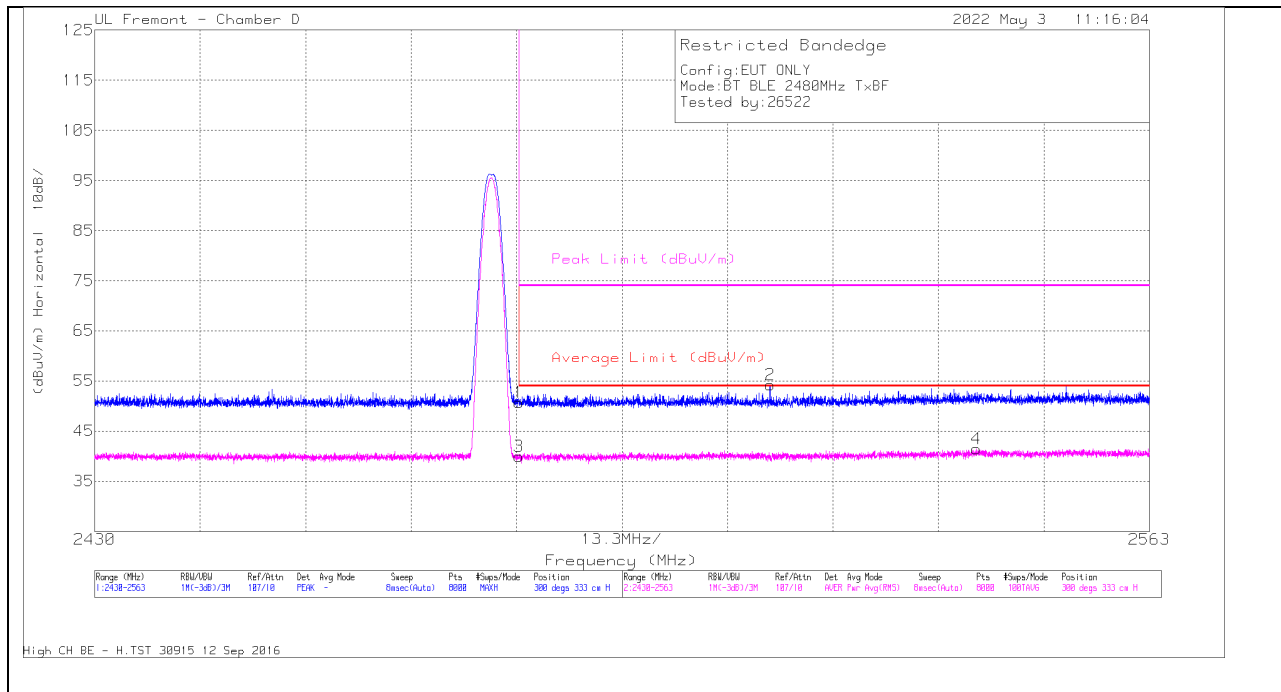


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det  | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.18                | Pk   | 32.1              | -20.7                    | 50.58                      | -                      | -           | 74                  | -23.42         | 113            | 118         | V        |
| 2      | * 2343.369      | 41.66                | Pk   | 32.3              | -20.8                    | 53.16                      | -                      | -           | 74                  | -20.84         | 113            | 118         | V        |
| 3      | * 2390          | 27.09                | VA1T | 32.1              | -20.7                    | 38.49                      | 54                     | -15.51      | -                   | -              | 113            | 118         | V        |
| 4      | * 2353.411      | 27.29                | VA1T | 32.3              | -20.9                    | 38.69                      | 54                     | -15.31      | -                   | -              | 113            | 118         | V        |

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

Pk - Peak detector

VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

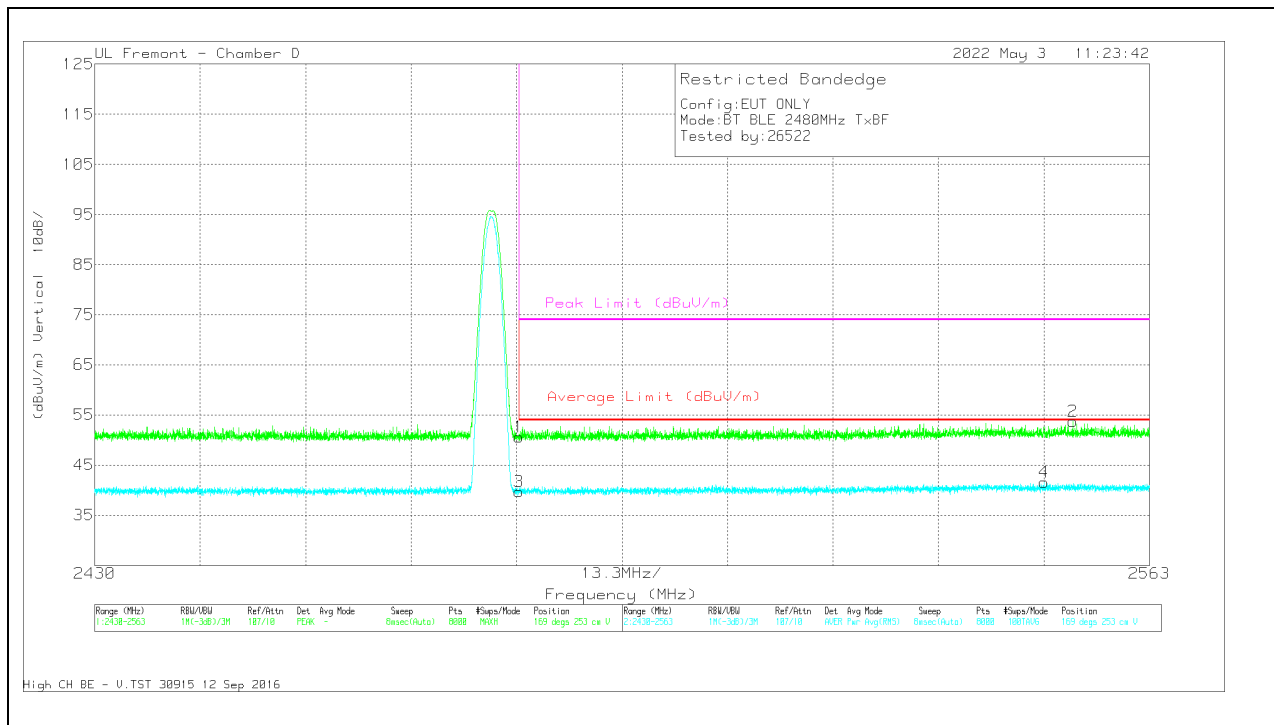
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filt/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.43                | Pk  | 32                | -20.7                  | 50.73                      | -                      | -           | 74                  | -23.27         | 300            | 333         | H        |
| 3      | * 2483.5        | 28.63                | RMS | 32                | -20.7                  | 39.93                      | 54                     | -14.07      | -                   | -              | 300            | 333         | H        |
| 2      | 2515.147        | 42.83                | Pk  | 32.1              | -20.7                  | 54.23                      | -                      | -           | 74                  | -19.77         | 300            | 333         | H        |
| 4      | 2541.201        | 29.46                | RMS | 32.4              | -20.4                  | 41.46                      | 54                     | -12.54      | -                   | -              | 300            | 333         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



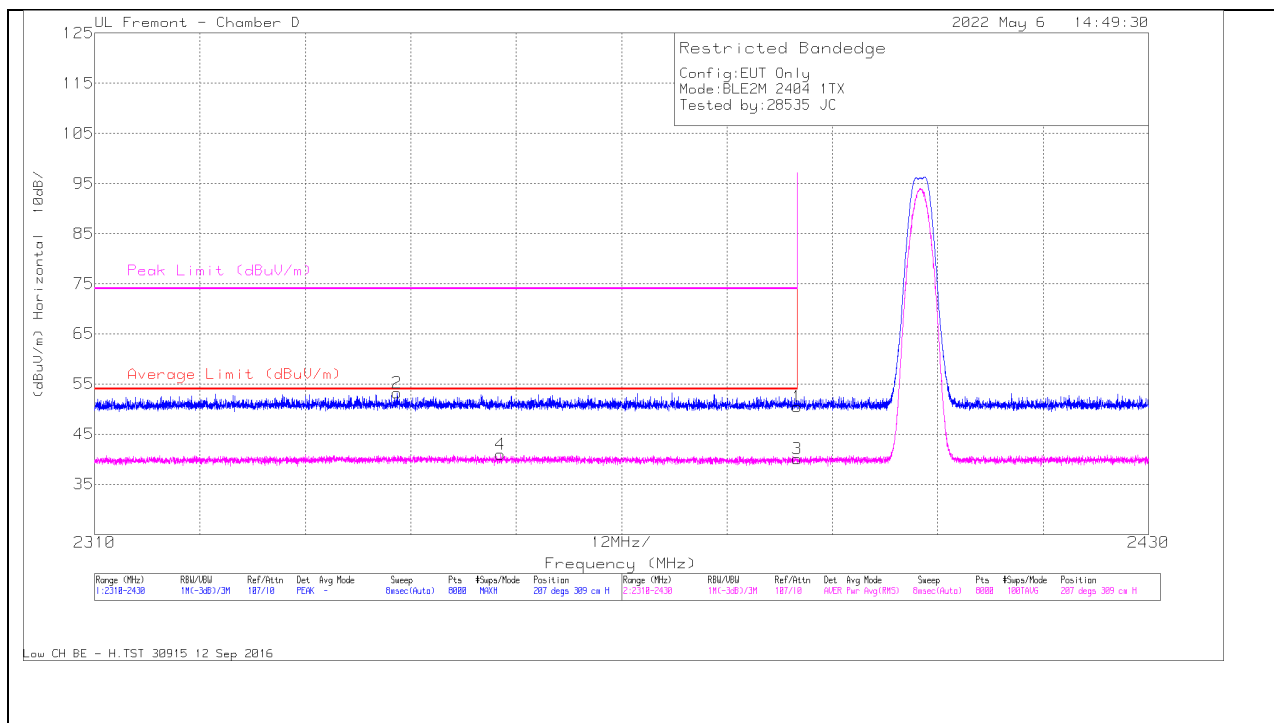
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 39.26                | Pk  | 32                | -20.7                    | 50.56                      | -                      | -           | 74                  | -23.44         | 169            | 253         | V        |
| 3      | * 2483.5        | 28.41                | RMS | 32                | -20.7                    | 39.71                      | 54                     | -14.29      | -                   | -              | 169            | 253         | V        |
| 4      | 2549.714        | 29.57                | RMS | 32.5              | -20.5                    | 41.57                      | 54                     | -12.43      | -                   | -              | 169            | 253         | V        |
| 2      | 2553.322        | 41.62                | Pk  | 32.5              | -20.4                    | 53.72                      | -                      | -           | 74                  | -20.28         | 169            | 253         | V        |

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

Pk - Peak detector

RMS - RMS detection

## 10.2.8. LOW POWER BLE (2Mbps)

**ANT 4****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

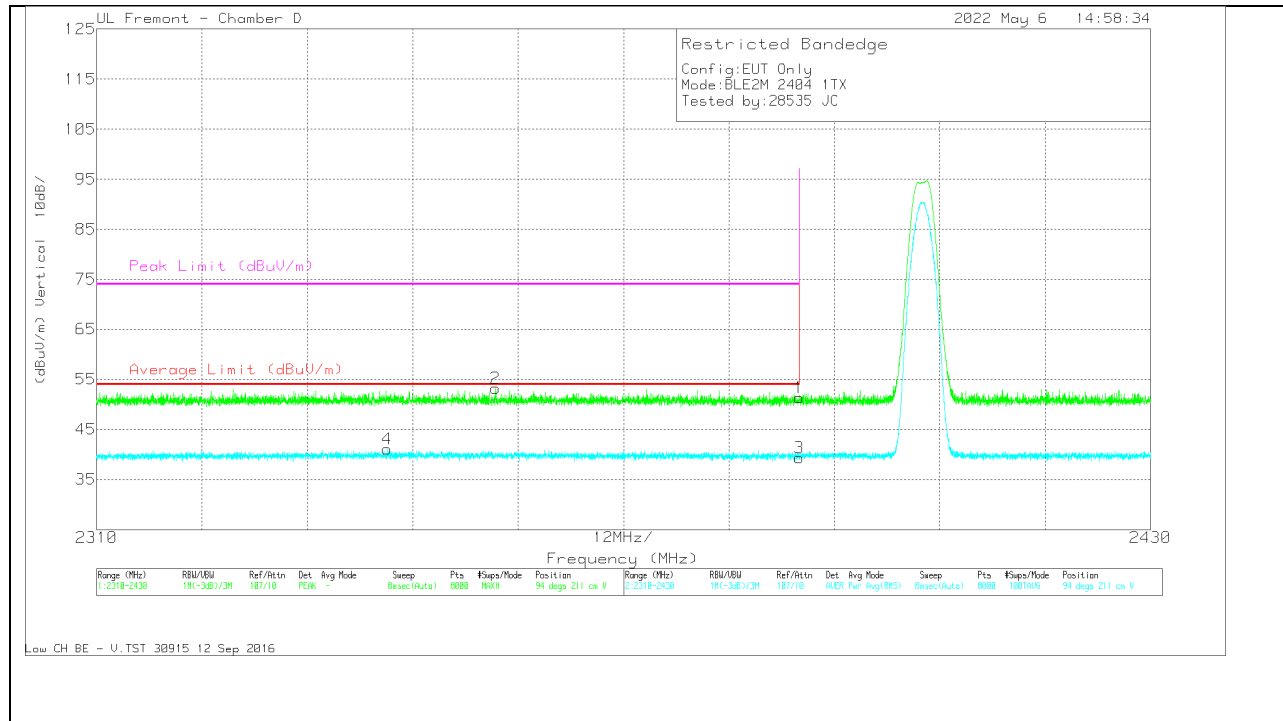
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarit y |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|-----------|
| 1      | * 2390          | 39.08                | Pk  | 32.1              | -20.7                    | 50.48                      | -                      | -           | 74                  | -23.52         | 207            | 309         | H         |
| 2      | * 2344.415      | 41.77                | Pk  | 32.3              | -20.8                    | 53.27                      | -                      | -           | 74                  | -20.73         | 207            | 309         | H         |
| 3      | * 2390          | 28.65                | RMS | 32.1              | -20.7                    | 40.05                      | 54                     | -13.95      | -                   | -              | 207            | 309         | H         |
| 4      | * 2356.206      | 29.44                | RMS | 32.3              | -20.8                    | 40.94                      | 54                     | -13.06      | -                   | -              | 207            | 309         | H         |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

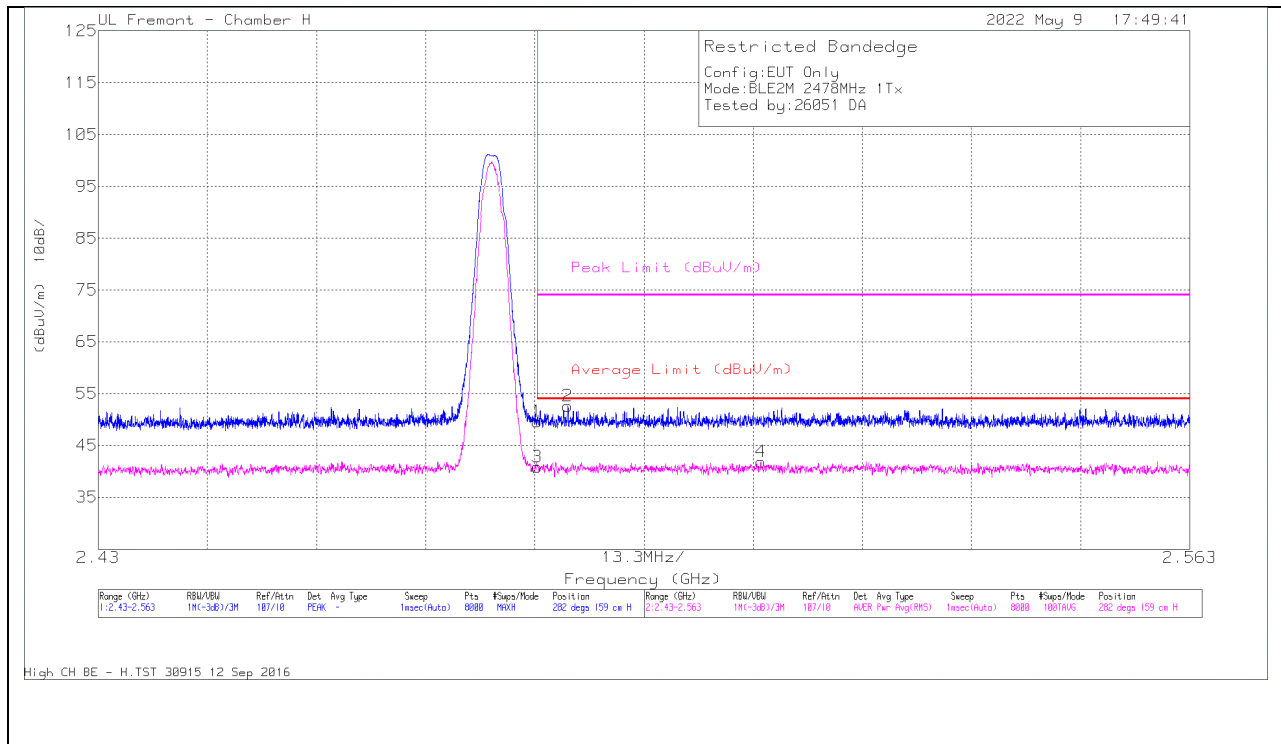


| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|--------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.89                | Pk  | 32.1              | -20.7                    | 51.29                      | -                      | -           | 74                  | -22.71         | 94             | 211         | V        |
| 2      | * 2355.396      | 41.78                | Pk  | 32.3              | -20.9                    | 53.18                      | -                      | -           | 74                  | -20.82         | 94             | 211         | V        |
| 3      | * 2390          | 27.99                | RMS | 32.1              | -20.7                    | 39.39                      | 54                     | -14.61      | -                   | -              | 94             | 211         | V        |
| 4      | * 2343.079      | 29.61                | RMS | 32.3              | -20.8                    | 41.11                      | 54                     | -12.89      | -                   | -              | 94             | 211         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

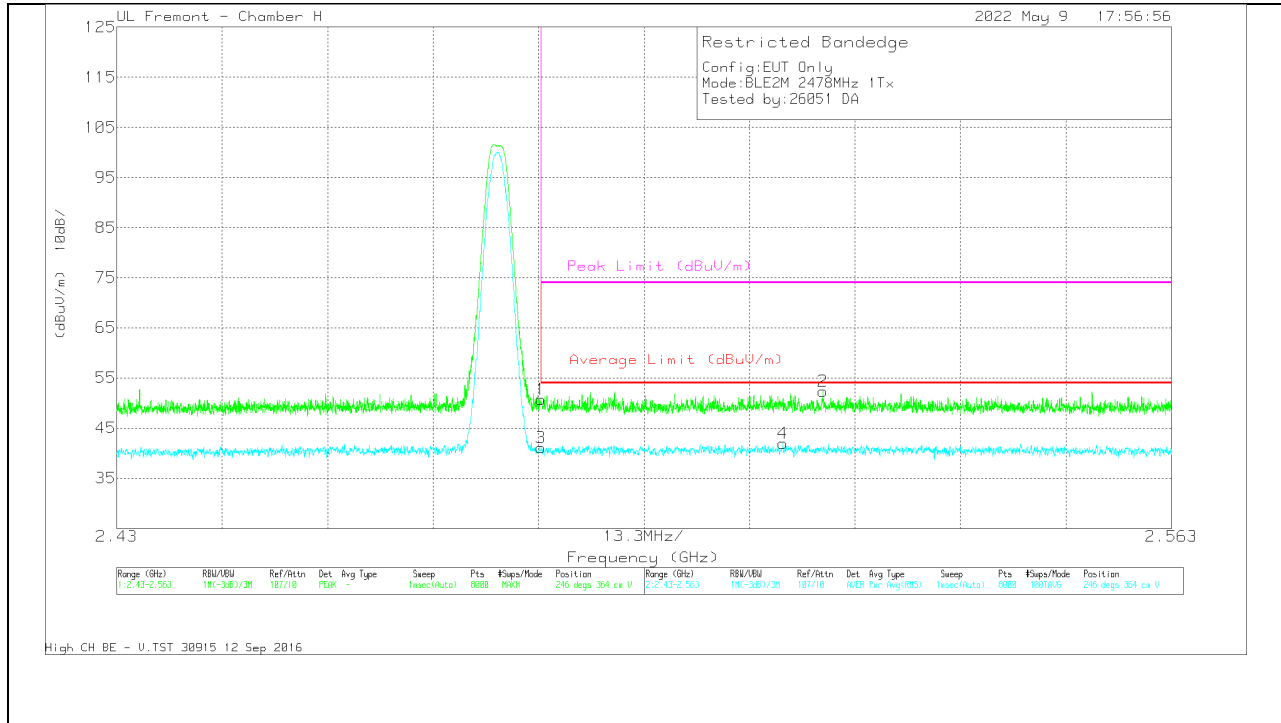
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.4835        | 44.69                | Pk  | 32.7            | -27.8             | 0            | 49.59                      | -                      | -           | 74                  | -24.41         | 282            | 159         | H        |
| 2      | * 2.48723       | 47.68                | Pk  | 32.7            | -27.8             | 0            | 52.58                      | -                      | -           | 74                  | -21.42         | 282            | 159         | H        |
| 3      | * 2.4835        | 35.97                | RMS | 32.7            | -27.8             | 0            | 40.87                      | 54                     | -13.13      | -                   | -              | 282            | 159         | H        |
| 4      | 2.510741        | 36.88                | RMS | 32.8            | -27.8             | 0            | 41.88                      | 54                     | -12.12      | -                   | -              | 282            | 159         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

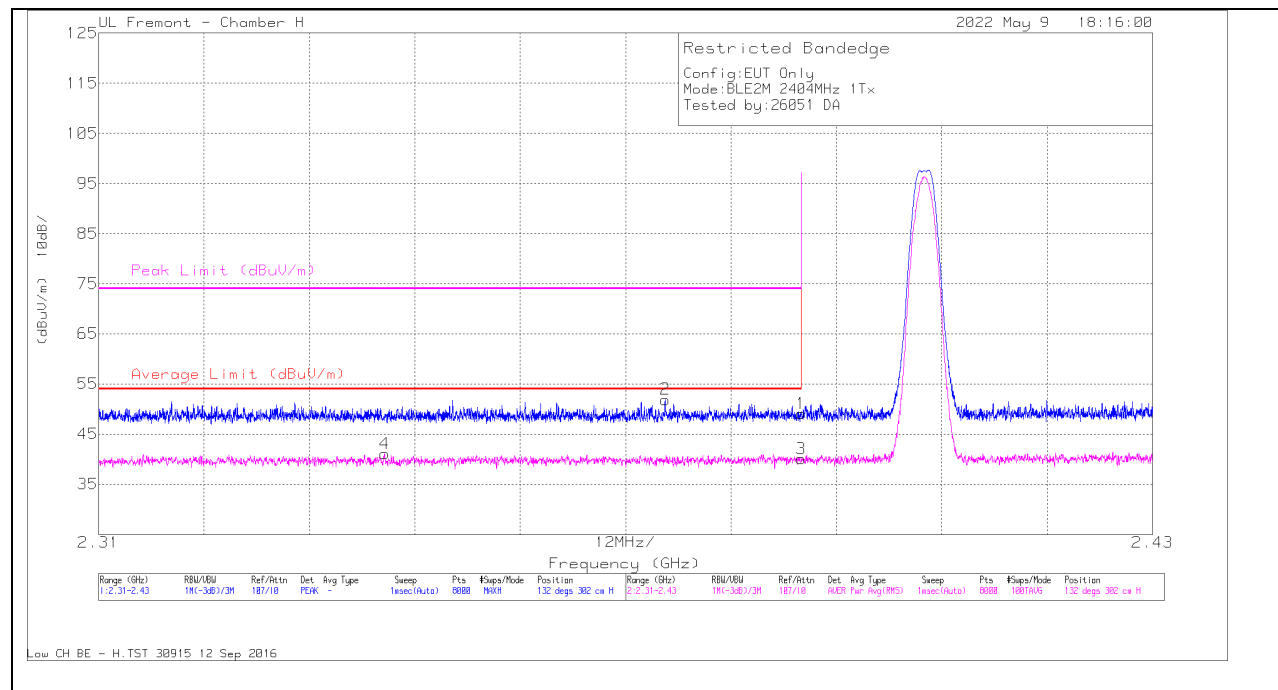


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarization |
|--------|-----------------|----------------------|-----|-----------------|-------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|--------------|
| 1      | * 2.4835        | 45.79                | Pk  | 32.7            | -27.8             | 0            | 50.69                      | -                      | -           | 74                  | -23.31         | 246            | 364         | V            |
| 3      | * 2.4835        | 36.24                | RMS | 32.7            | -27.8             | 0            | 41.14                      | 54                     | -12.86      | -                   | -              | 246            | 364         | V            |
| 4      | 2.514           | 36.95                | RMS | 32.8            | -27.8             | 0            | 41.95                      | 54                     | -12.05      | -                   | -              | 246            | 364         | V            |
| 2      | 2.519054        | 47.49                | Pk  | 32.8            | -27.9             | 0            | 52.39                      | -                      | -           | 74                  | -21.61         | 246            | 364         | V            |

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

Pk - Peak detector

RMS - RMS detection

**ANT 3****BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

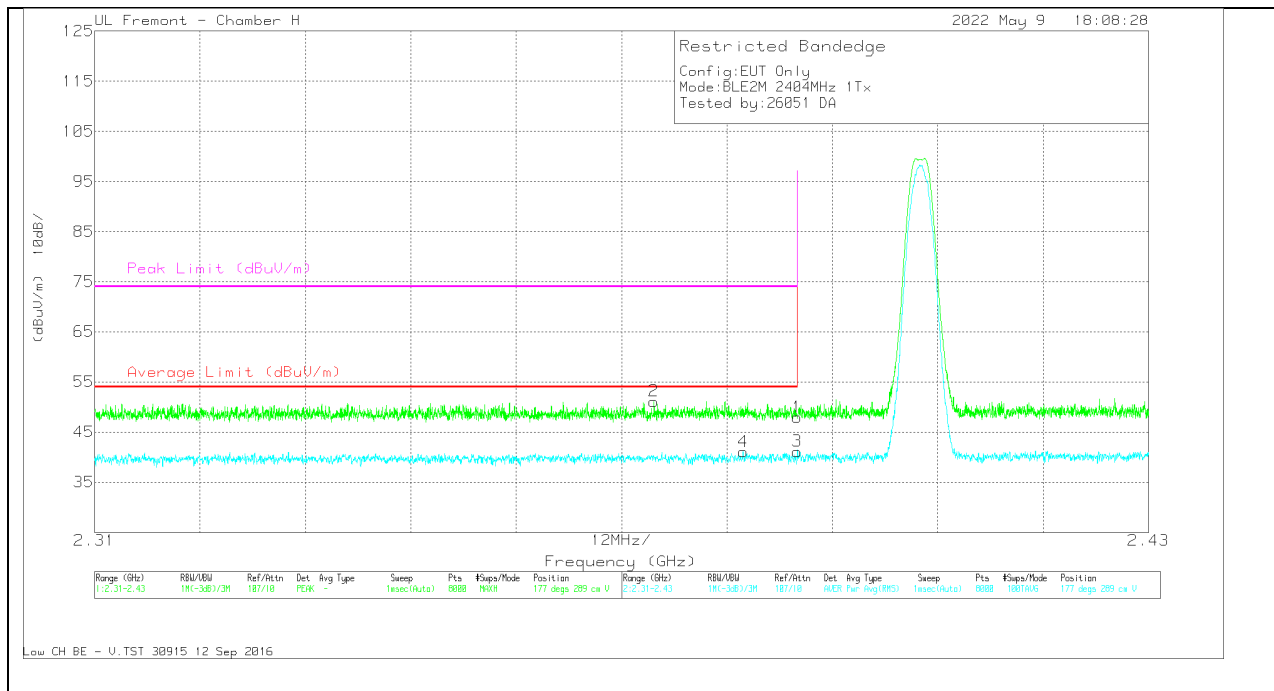
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/Cb/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 44.8                 | Pk  | 32              | -27.7            | 49.1                       | -                      | -           | 74                  | -24.9          | 132            | 302         | H        |
| 2      | * 2.374509      | 47.51                | Pk  | 32              | -27.6            | 51.91                      | -                      | -           | 74                  | -22.09         | 132            | 302         | H        |
| 3      | * 2.39          | 35.73                | RMS | 32              | -27.7            | 40.03                      | 54                     | -13.97      | -                   | -              | 132            | 302         | H        |
| 4      | * 2.342554      | 36.91                | RMS | 31.8            | -27.6            | 41.11                      | 54                     | -12.89      | -                   | -              | 132            | 302         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

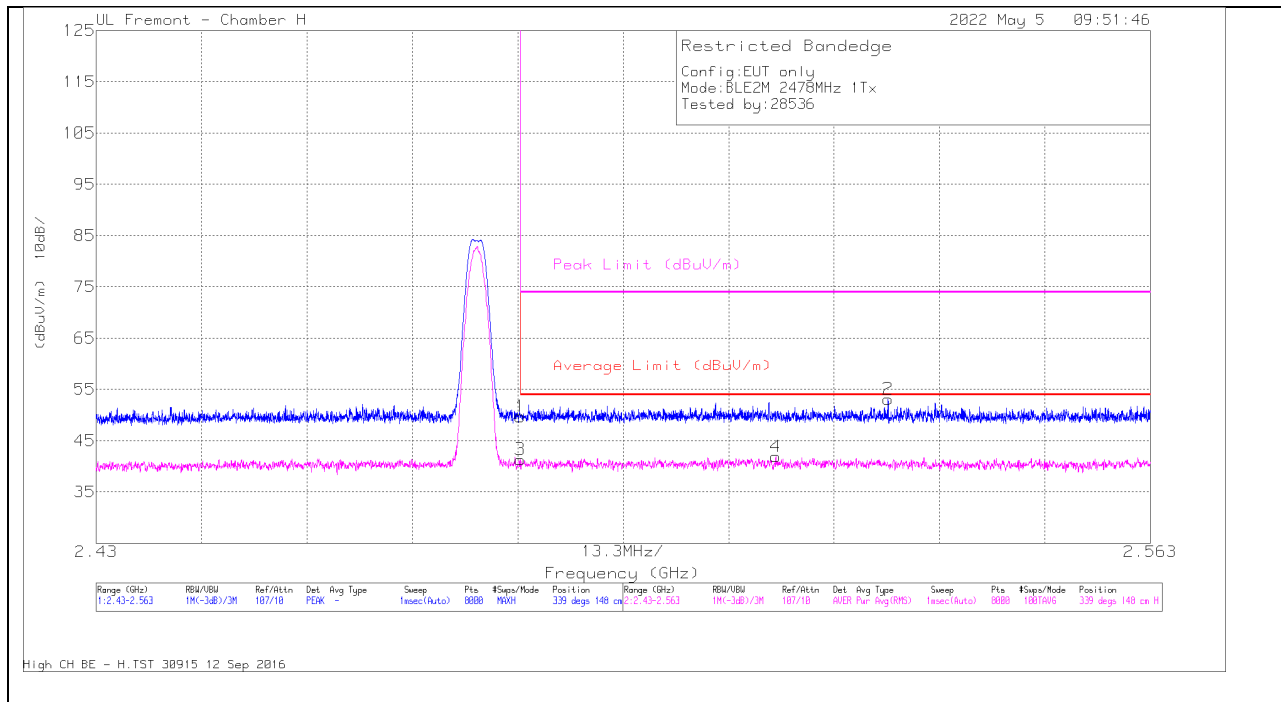


| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-----------------|-------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 43.68                | Pk  | 32              | -27.7             | 0            | 47.98                      | -                      | -           | 74                  | -26.02         | 177            | 289         | V        |
| 2      | * 2.373683      | 46.76                | Pk  | 32              | -27.6             | 0            | 51.16                      | -                      | -           | 74                  | -22.84         | 177            | 289         | V        |
| 3      | * 2.39          | 36.85                | RMS | 32              | -27.7             | 0            | 41.15                      | 54                     | -12.85      | -                   | -              | 177            | 289         | V        |
| 4      | * 2.38384       | 36.93                | RMS | 32              | -27.8             | 0            | 41.13                      | 54                     | -12.87      | -                   | -              | 177            | 289         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

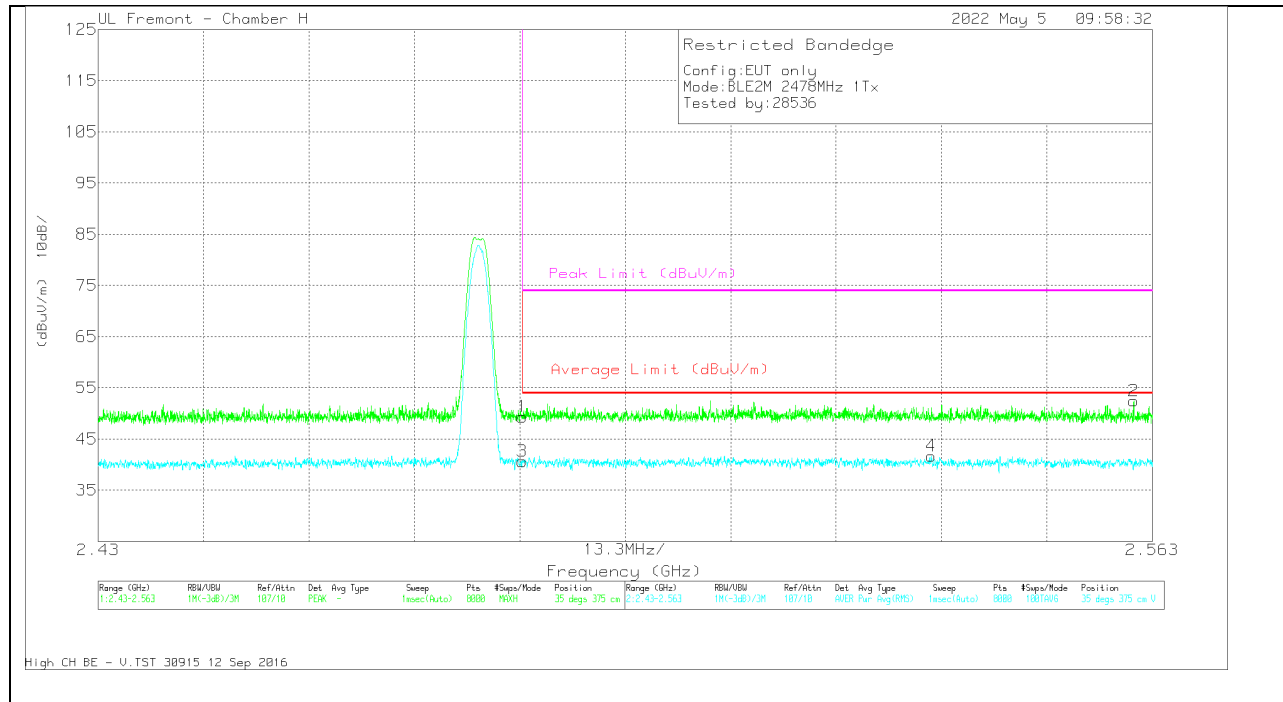
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarit y |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|-----------|
| 1      | * 2.4835        | 44.8                 | Pk  | 32.7            | -27.8             | 49.7                       | -                      | -           | 74                  | -24.3          | 339            | 148         | H         |
| 3      | * 2.4835        | 36.42                | RMS | 32.7            | -27.8             | 41.32                      | 54                     | -12.68      | -                   | -              | 339            | 148         | H         |
| 4      | 2.515745        | 37                   | RMS | 32.8            | -27.9             | 41.9                       | 54                     | -12.1       | -                   | -              | 339            | 148         | H         |
| 2      | 2.529912        | 48.21                | Pk  | 32.8            | -27.9             | 53.11                      | -                      | -           | 74                  | -20.89         | 339            | 148         | H         |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 80430 (dB/m) | Amp/C bl/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarization |
|--------|-----------------|----------------------|-----|-----------------|-------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|--------------|
| 1      | * 2.4835        | 44.45                | Pk  | 32.7            | -27.8             | 49.35                      | -                      | -           | 74                  | -24.65         | 35             | 375         | V            |
| 3      | * 2.4835        | 35.74                | RMS | 32.7            | -27.8             | 40.64                      | 54                     | -13.36      | -                   | -              | 35             | 375         | V            |
| 4      | 2.535116        | 36.87                | RMS | 32.7            | -27.9             | 41.67                      | 54                     | -12.33      | -                   | -              | 35             | 375         | V            |
| 2      | 2.560655        | 47.66                | Pk  | 32.6            | -27.8             | 52.46                      | -                      | -           | 74                  | -21.54         | 35             | 375         | V            |

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

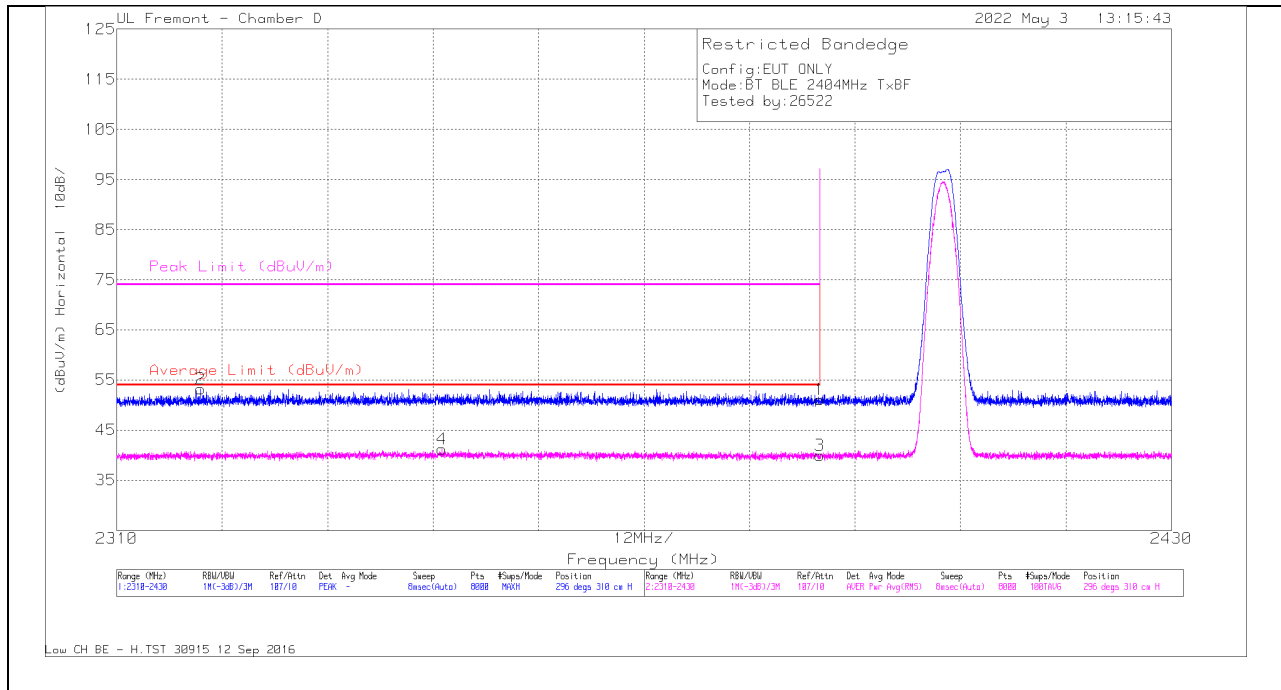
Pk - Peak detector

RMS - RMS detection

## 10.2.9. LOW POWER BLE TXBF (2Mbps)

## BANDEDGE (LOW CHANNEL)

## HORIZONTAL RESULT



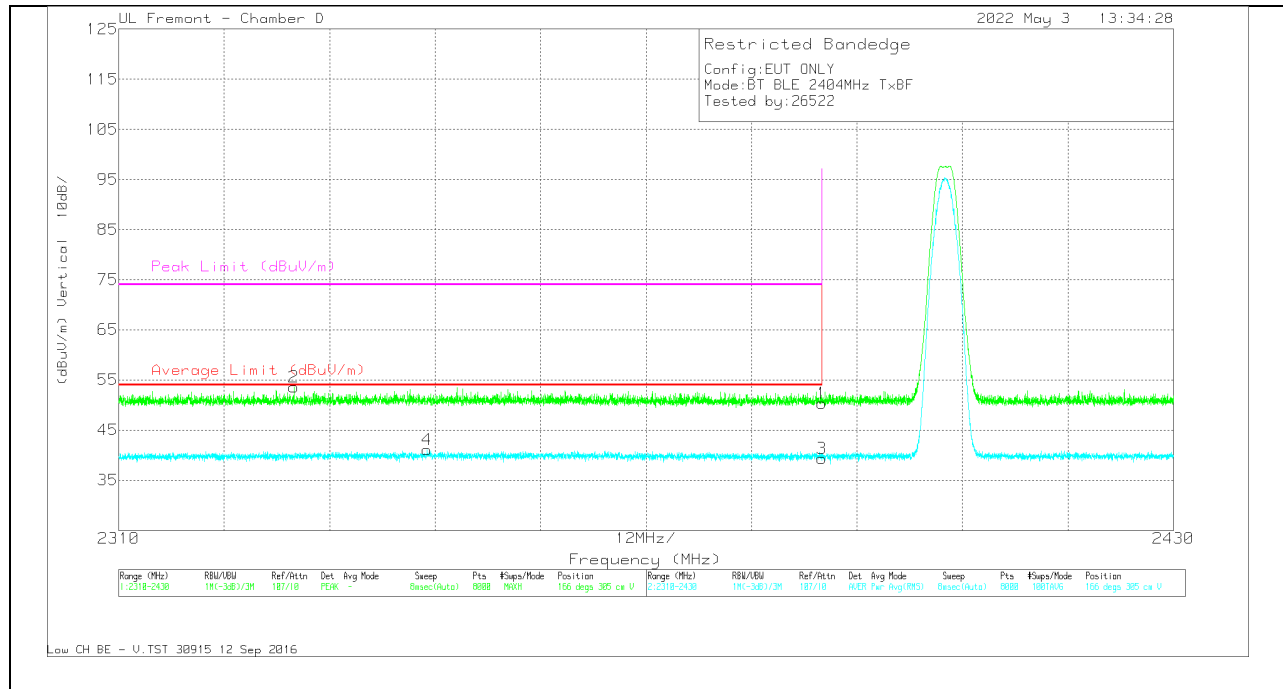
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2390          | 39.72                | Pk  | 32.1              | -20.7                   | 51.12                      | -                      | -           | 74                  | -22.88         | 296            | 310         | H        |
| 2      | * 2319.556      | 41.93                | Pk  | 32.1              | -20.8                   | 53.23                      | -                      | -           | 74                  | -20.77         | 296            | 310         | H        |
| 3      | * 2390          | 28.51                | RMS | 32.1              | -20.7                   | 39.91                      | 54                     | -14.09      | -                   | -              | 296            | 310         | H        |
| 4      | * 2346.995      | 29.75                | RMS | 32.3              | -20.8                   | 41.25                      | 54                     | -12.75      | -                   | -              | 296            | 310         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT

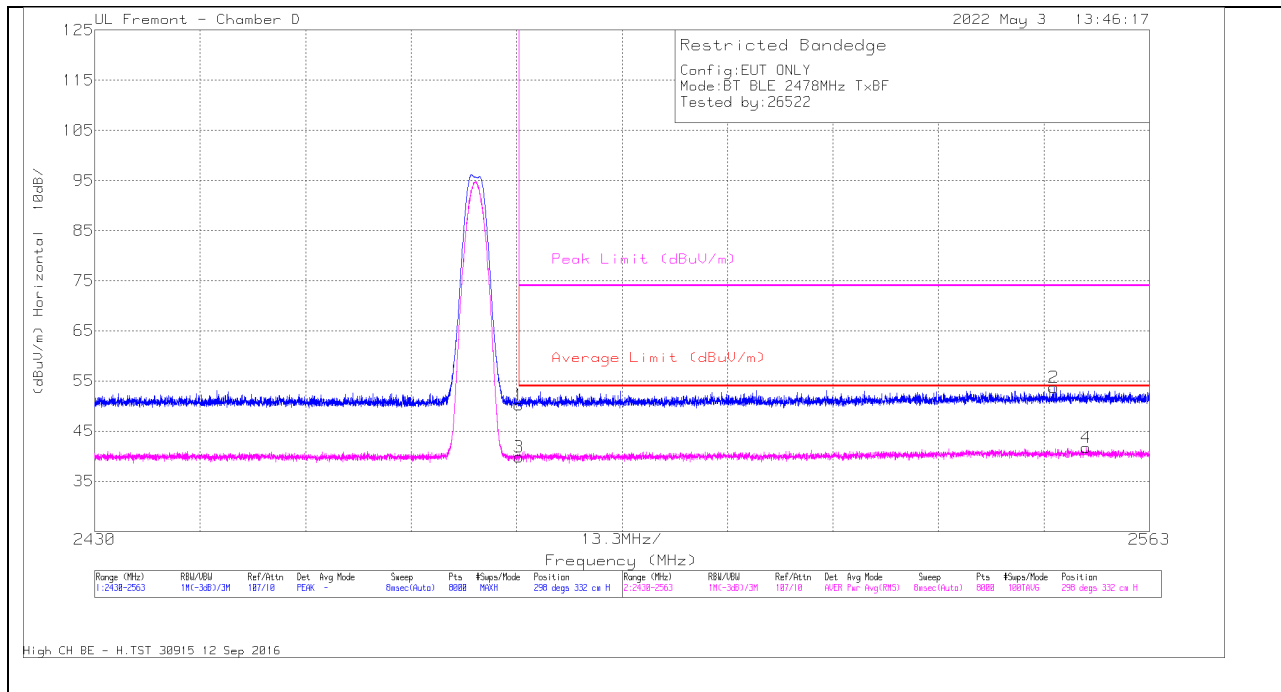


| Marker | Frequency(M Hz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filtr/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|-------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2      | * 2329.923      | 42.27                | Pk  | 32.2              | -20.9                   | 53.57                      | -                      | -           | 74                  | -20.43         | 166            | 305         | V        |
| 4      | * 2345.09       | 29.63                | RMS | 32.3              | -20.8                   | 41.13                      | 54                     | -12.87      | -                   | -              | 166            | 305         | V        |
| 1      | * 2390          | 38.97                | Pk  | 32.1              | -20.7                   | 50.37                      | -                      | -           | 74                  | -23.63         | 166            | 305         | V        |
| 3      | * 2390          | 27.91                | RMS | 32.1              | -20.7                   | 39.31                      | 54                     | -14.69      | -                   | -              | 166            | 305         | V        |

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

Pk - Peak detector

RMS - RMS detection

**BANDEDGE (HIGH CHANNEL)****HORIZONTAL RESULT**

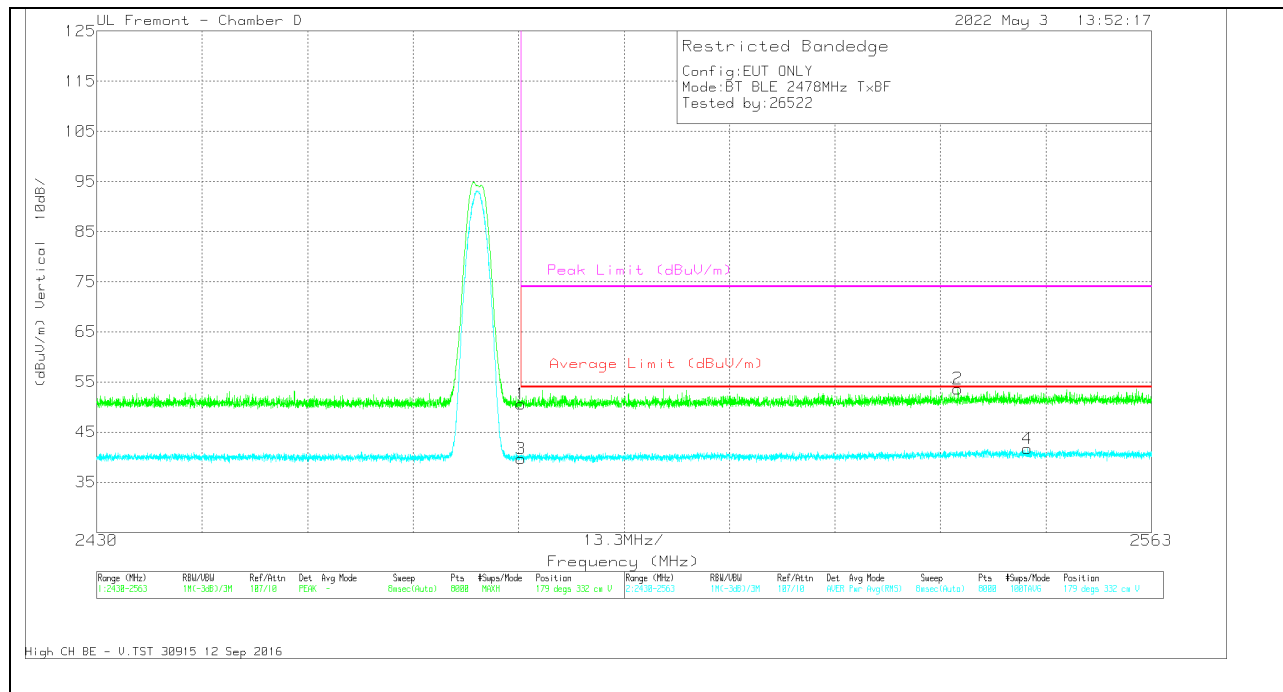
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C b/Filt/ Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|-------------------|------------------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2483.5        | 38.96                | Pk  | 32                | -20.7                  | 50.26                      | -                      | -           | 74                  | -23.74         | 298            | 332         | H        |
| 3      | * 2483.5        | 28.57                | RMS | 32                | -20.7                  | 39.87                      | 54                     | -14.13      | -                   | -              | 298            | 332         | H        |
| 2      | 2550.945        | 41.74                | Pk  | 32.5              | -20.5                  | 53.74                      | -                      | -           | 74                  | -20.26         | 298            | 332         | H        |
| 4      | 2555.002        | 29.66                | RMS | 32.5              | -20.4                  | 41.76                      | 54                     | -12.24      | -                   | -              | 298            | 332         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 200786 ACF (dB/m) | Amp/C bl/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      | * 2483.5        | 39.26                | Pk  | 32                | -20.7                    | 50.56                      | -                      | -           | 74                  | -23.44         | 179            | 332         | V        |
| 3      | * 2483.5        | 28.42                | RMS | 32                | -20.7                    | 39.72                      | 54                     | -14.28      | -                   | -              | 179            | 332         | V        |
| 2      | 2538.608        | 41.76                | Pk  | 32.4              | -20.5                    | 53.66                      | -                      | -           | 74                  | -20.34         | 179            | 332         | V        |
| 4      | 2547.353        | 29.87                | RMS | 32.4              | -20.5                    | 41.77                      | 54                     | -12.23      | -                   | -              | 179            | 332         | V        |

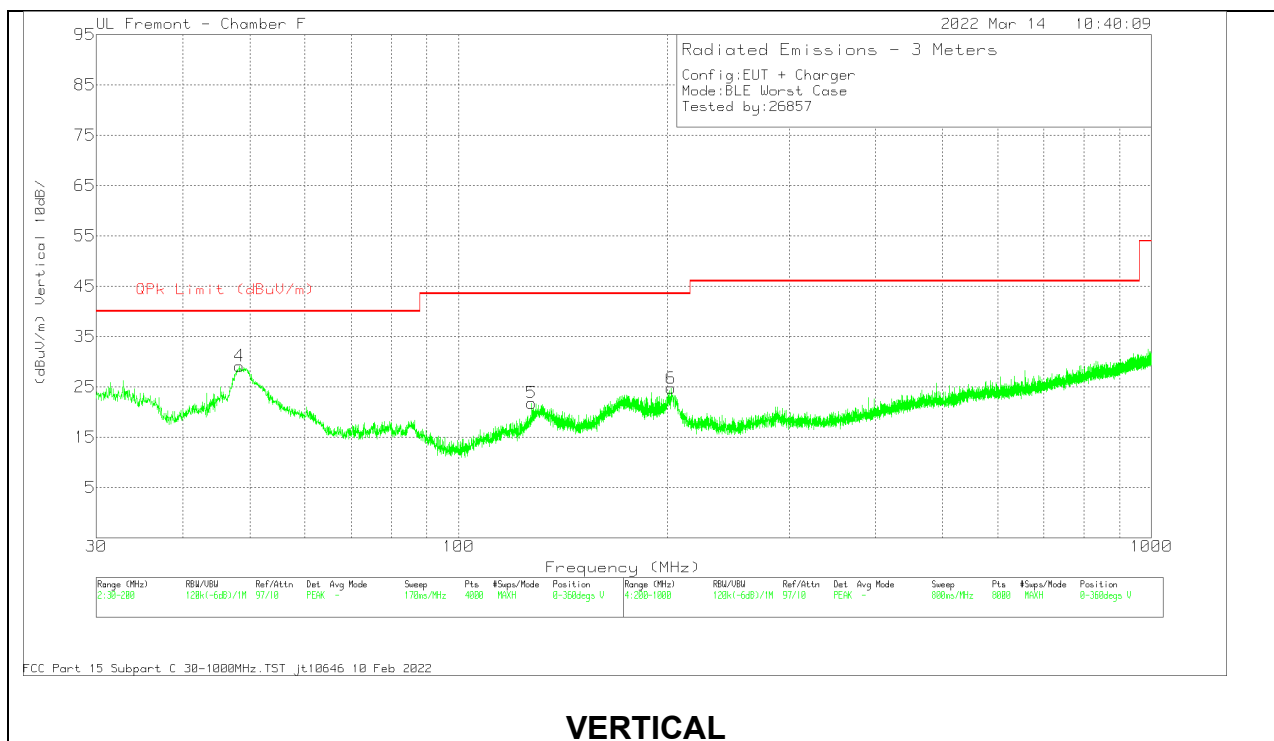
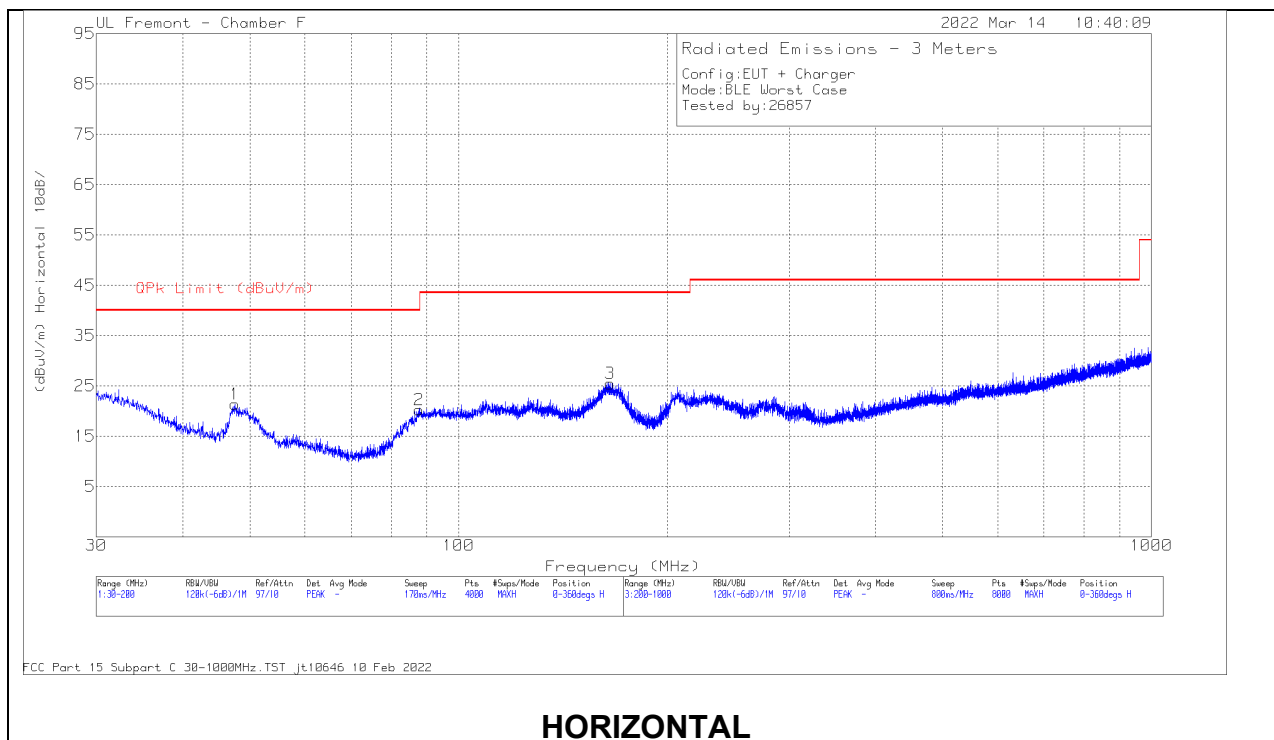
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

### 10.3. WORST CASE BELOW 1 GHz

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



**DATA**

| Frequency (MHz) | Meter Reading (dBuV) | Det | AF 204044 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 47.8374         | 32.8                 | Qp  | 16               | -31.8        | 17                         | 40                 | -23         | 177            | 400         | H        |
| 87.8633         | 35.29                | Qp  | 14.2             | -31.5        | 17.99                      | 40                 | -22.01      | 358            | 226         | H        |
| * 165.62        | 36.37                | Qp  | 18.6             | -31.1        | 23.87                      | 43.52              | -19.65      | 306            | 170         | H        |
| 48.4015         | 42.36                | Qp  | 15.8             | -31.8        | 26.36                      | 40                 | -13.64      | 61             | 102         | V        |
| * 127.613       | 24.46                | Qp  | 20.3             | -31.3        | 13.46                      | 43.52              | -30.06      | 136            | 106         | V        |
| 202.708         | 31.75                | Qp  | 18.4             | -30.9        | 19.25                      | 43.52              | -24.27      | 51             | 107         | V        |

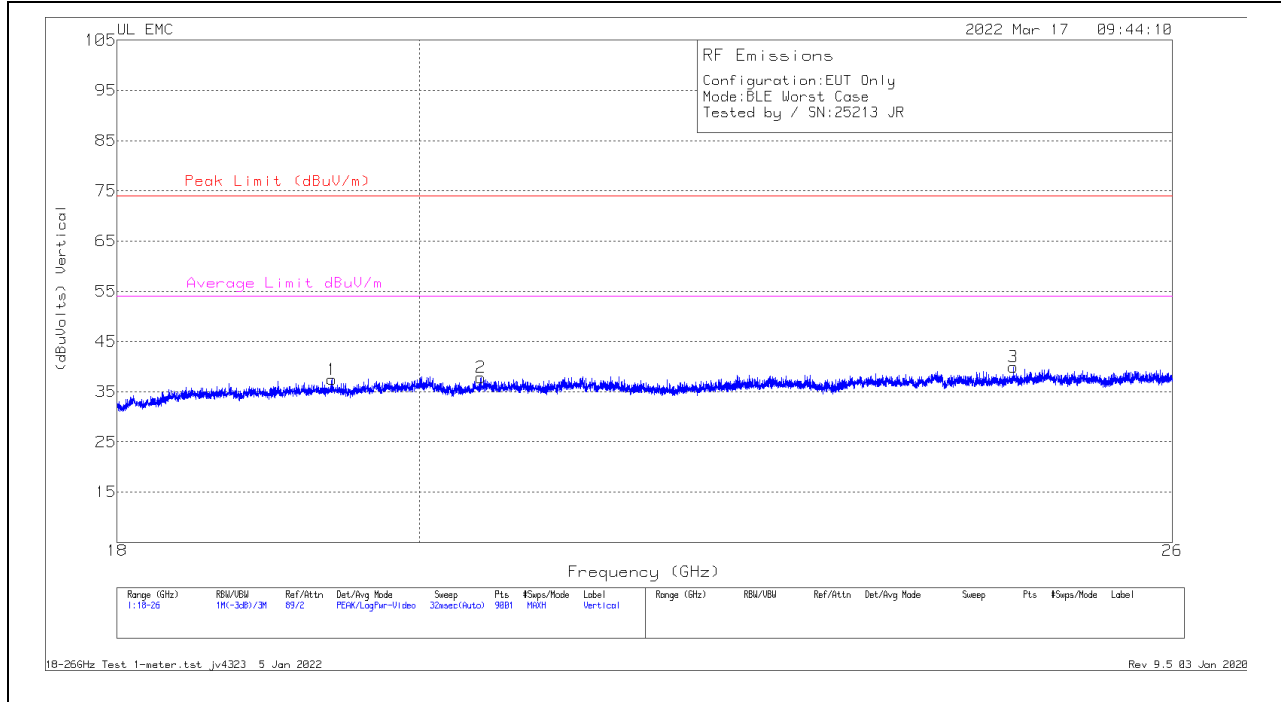
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

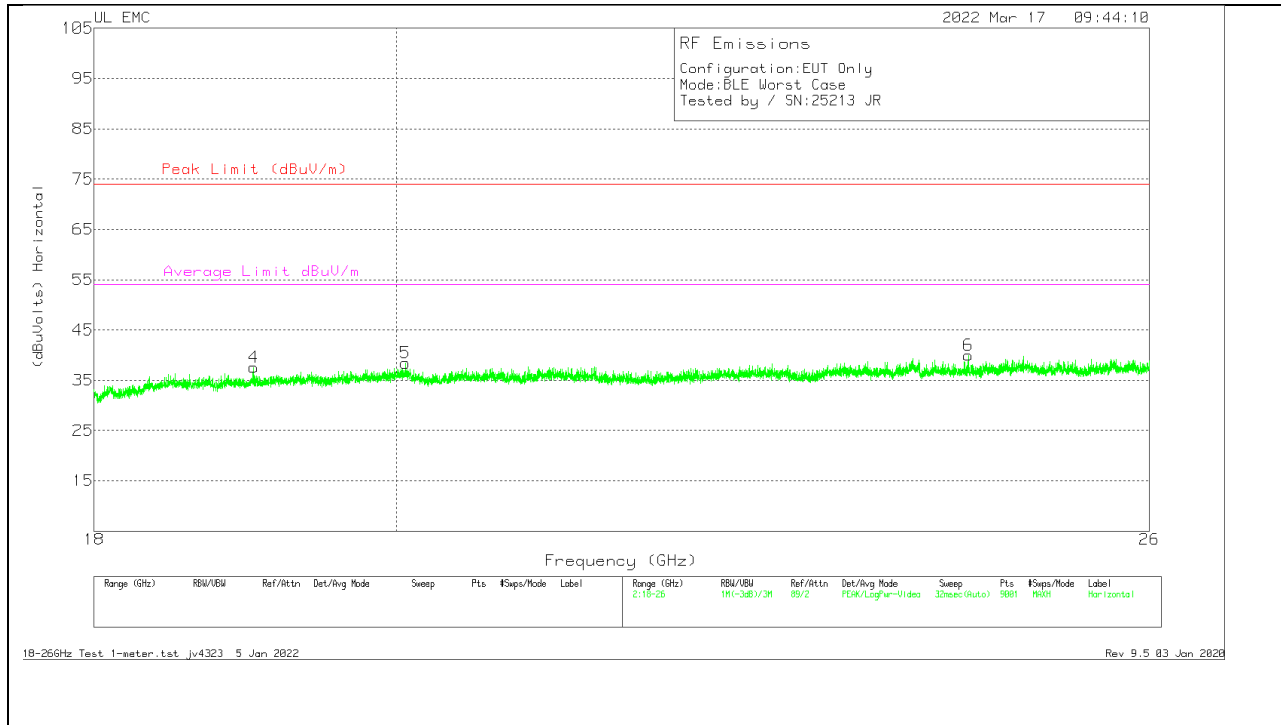
## 10.4. WORST CASE 18-26 GHz

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

#### HORIZONTAL



#### VERTICAL



**DATA**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF 81139 (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Average Limit dBuV/m | Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------|--------------|----------------|----------------------------|---------------------|----------------|----------------------|-------------|
| 1      | 19.4            | 70.35                | Pk  | 33.4            | -56.8        | -9.5           | 37.45                      | 74                  | -36.55         | 54                   | -16.55      |
| 2      | 20.432          | 70.11                | Pk  | 33.9            | -56.7        | -9.5           | 37.81                      | 74                  | -36.19         | 54                   | -16.19      |
| 3      | 24.59822        | 70.72                | Pk  | 34.8            | -56.1        | -9.5           | 39.92                      | 74                  | -34.08         | 54                   | -14.08      |
| 4      | 19.02933        | 71.18                | Pk  | 33.3            | -57.4        | -9.5           | 37.58                      | 74                  | -36.42         | 54                   | -16.42      |
| 5      | 20.06222        | 70.75                | Pk  | 33.7            | -56.5        | -9.5           | 38.45                      | 74                  | -35.55         | 54                   | -15.55      |
| 6      | 24.40978        | 71.47                | Pk  | 34.6            | -56.6        | -9.5           | 39.97                      | 74                  | -34.03         | 54                   | -14.03      |

Pk - Peak detector

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## 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.

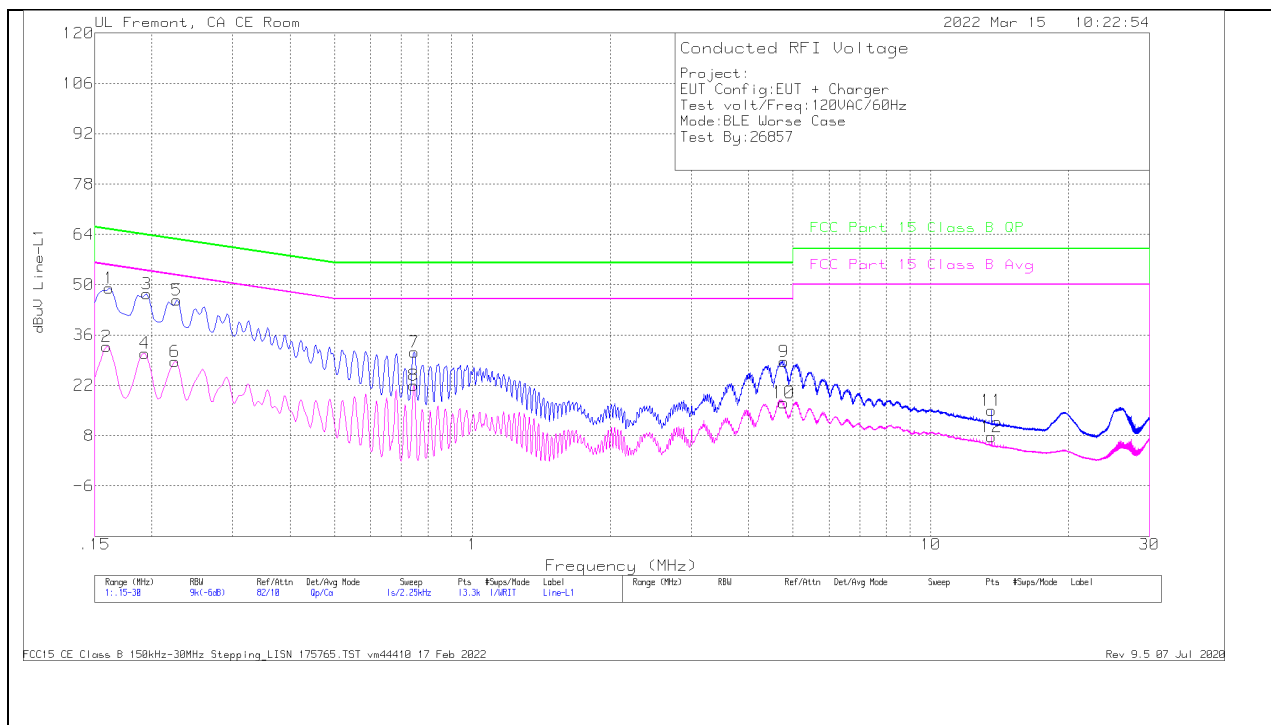
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

# 11.1. AC POWER LINE WITH AC/DC ADAPTER

## LINE 1 RESULTS



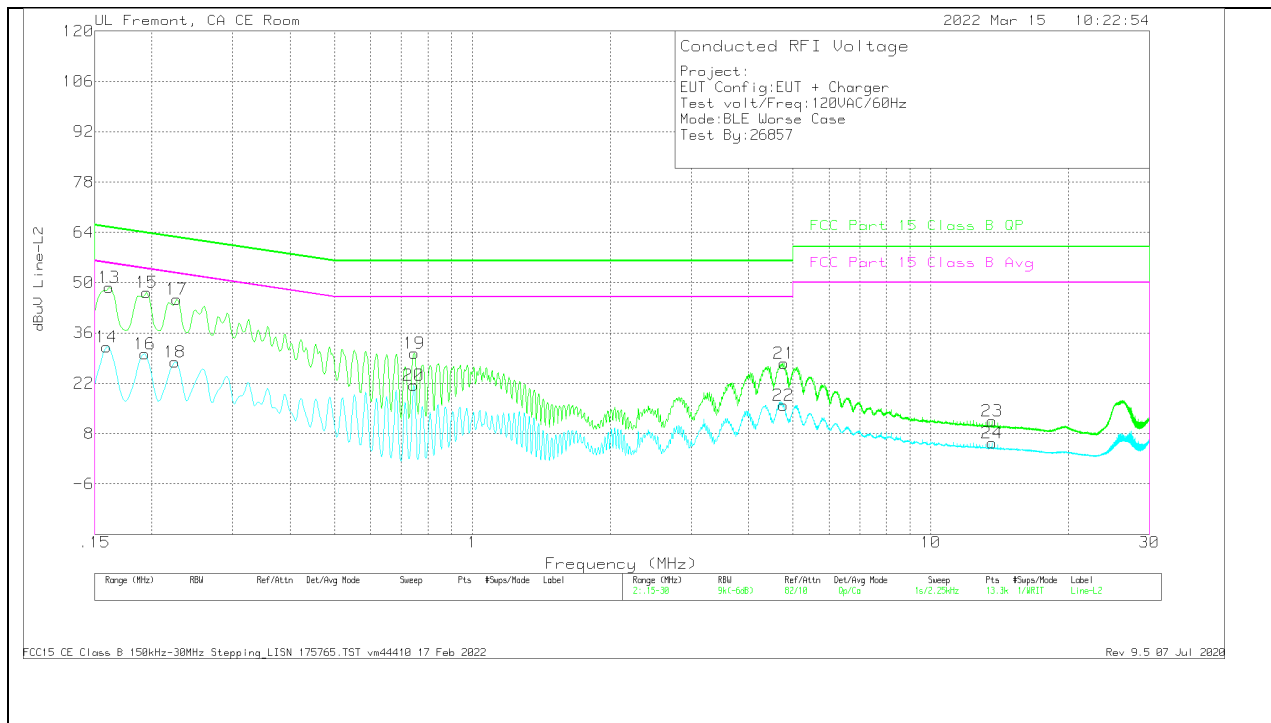
Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 175765 LISN L1 (dB) | C1&C3 cable (dB) | TekBox Limiter TBFL1 Model 207 (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP dBuV | QP Margin (dB) | FCC Part 15 Class B Avg dBuV | Av(CISPR) Margin (dB) |
|--------|-----------------|----------------------|-----|---------------------|------------------|-------------------------------------|------------------------|-----------------------------|----------------|------------------------------|-----------------------|
| 2      | .159            | 23.33                | Ca  | .1                  | 0                | 9.4                                 | 32.83                  | -                           | -              | 55.52                        | -22.69                |
| 4      | .19275          | 21.57                | Ca  | .1                  | 0                | 9.3                                 | 30.97                  | -                           | -              | 53.92                        | -22.95                |
| 6      | .22425          | 19.34                | Ca  | 0                   | 0                | 9.3                                 | 28.64                  | -                           | -              | 52.66                        | -24.02                |
| 8      | .744            | 12.51                | Ca  | 0                   | .1               | 9.3                                 | 21.91                  | -                           | -              | 46                           | -24.09                |
| 10     | 4.77825         | 7.79                 | Ca  | 0                   | .1               | 9.3                                 | 17.19                  | -                           | -              | 46                           | -28.81                |
| 12     | 13.56           | -1.88                | Ca  | .1                  | .2               | 9.3                                 | 7.72                   | -                           | -              | 50                           | -42.28                |
| 1      | .16125          | 39.61                | Qp  | .1                  | 0                | 9.4                                 | 49.11                  | 65.4                        | -16.29         | -                            | -                     |
| 3      | .195            | 38.09                | Qp  | .1                  | 0                | 9.3                                 | 47.49                  | 63.82                       | -16.33         | -                            | -                     |
| 5      | .2265           | 36.36                | Qp  | 0                   | 0                | 9.3                                 | 45.66                  | 62.58                       | -16.92         | -                            | -                     |
| 7      | .74625          | 21.8                 | Qp  | 0                   | .1               | 9.3                                 | 31.2                   | 56                          | -24.8          | -                            | -                     |
| 9      | 4.78275         | 19.29                | Qp  | 0                   | .1               | 9.3                                 | 28.69                  | 56                          | -27.31         | -                            | -                     |
| 11     | 13.56           | 5.43                 | Qp  | .1                  | .2               | 9.3                                 | 15.03                  | 60                          | -44.97         | -                            | -                     |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS

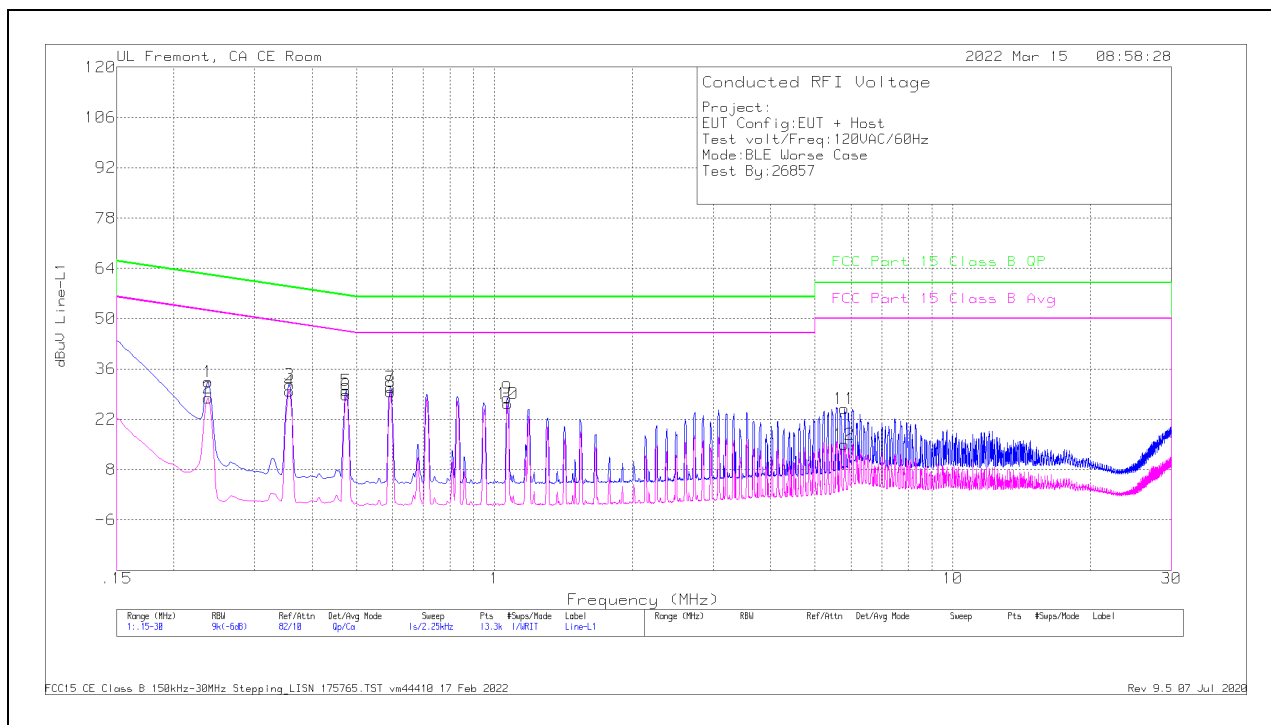


### Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 175765 LISN L2 (dB) | C2&C3 cable (dB) | TekBox Limiter TBFL1 Model 207 (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP dBuV | QP Margin (dB) | FCC Part 15 Class B Avg dBuV | Av(CISPR)M argin (dB) |
|--------|-----------------|----------------------|-----|---------------------|------------------|-------------------------------------|------------------------|-----------------------------|----------------|------------------------------|-----------------------|
| 14     | .159            | 22.67                | Ca  | .1                  | 0                | 9.4                                 | 32.17                  | -                           | -              | 55.52                        | -23.35                |
| 16     | .19275          | 20.83                | Ca  | 0                   | 0                | 9.3                                 | 30.13                  | -                           | -              | 53.92                        | -23.79                |
| 18     | .22425          | 18.65                | Ca  | 0                   | 0                | 9.3                                 | 27.95                  | -                           | -              | 52.66                        | -24.71                |
| 20     | .744            | 12.03                | Ca  | 0                   | .1               | 9.3                                 | 21.43                  | -                           | -              | 46                           | -24.57                |
| 22     | 4.776           | 6.5                  | Ca  | 0                   | .1               | 9.3                                 | 15.9                   | -                           | -              | 46                           | -30.1                 |
| 24     | 13.596          | -4.18                | Ca  | .1                  | .2               | 9.3                                 | 5.42                   | -                           | -              | 50                           | -44.58                |
| 13     | .16125          | 39.26                | Qp  | .1                  | 0                | 9.4                                 | 48.76                  | 65.4                        | -16.64         | -                            | -                     |
| 15     | .195            | 37.93                | Qp  | 0                   | 0                | 9.3                                 | 47.23                  | 63.82                       | -16.59         | -                            | -                     |
| 17     | .2265           | 36.05                | Qp  | 0                   | 0                | 9.3                                 | 45.35                  | 62.58                       | -17.23         | -                            | -                     |
| 19     | .74625          | 20.99                | Qp  | 0                   | .1               | 9.3                                 | 30.39                  | 56                          | -25.61         | -                            | -                     |
| 21     | 4.785           | 18.19                | Qp  | 0                   | .1               | 9.3                                 | 27.59                  | 56                          | -28.41         | -                            | -                     |
| 23     | 13.596          | 1.95                 | Qp  | .1                  | .2               | 9.3                                 | 11.55                  | 60                          | -48.45         | -                            | -                     |

Qp - Quasi-Peak detector

Ca - CISPR average detection

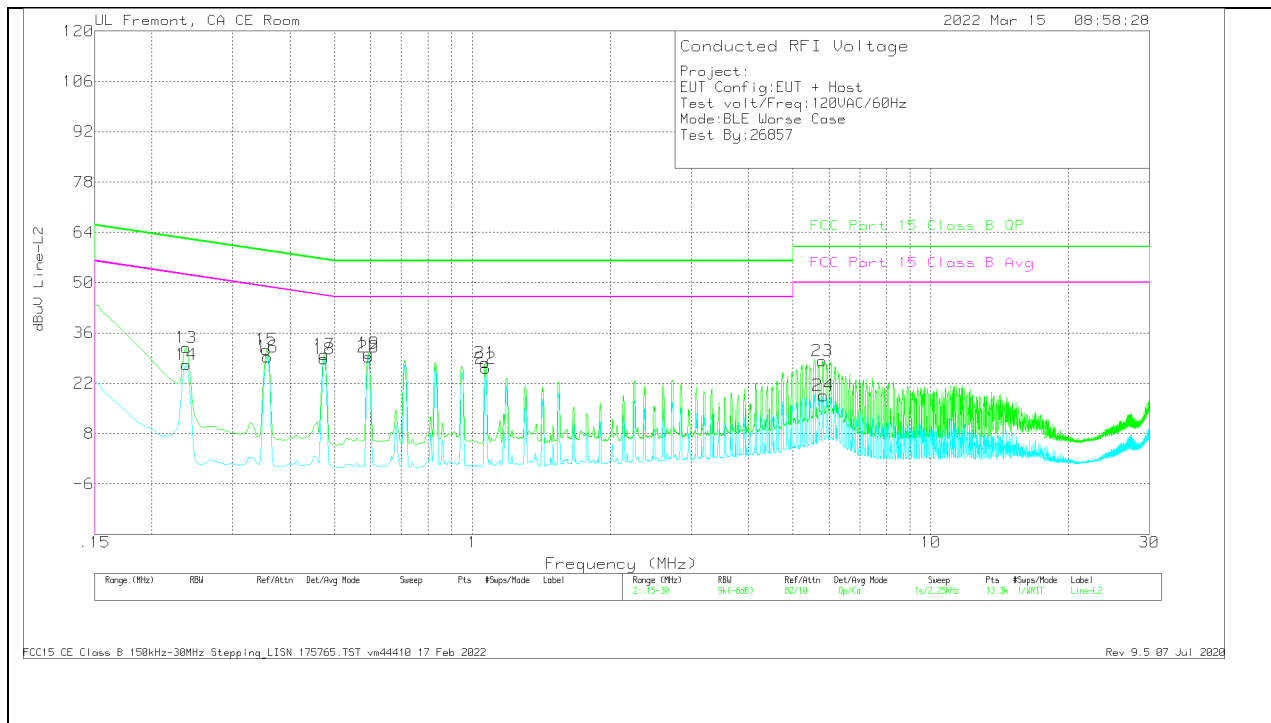
**11.2. AC POWER LINE WITH LAPTOP****LINE 1 RESULTS**

| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |                     |                  |                                     |                        |                             |                |                              |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|------------------|-------------------------------------|------------------------|-----------------------------|----------------|------------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | 175765 LISN L1 (dB) | C1&C3 cable (dB) | TekBox Limiter TBFL1 Model 207 (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP dBuV | QP Margin (dB) | FCC Part 15 Class B Avg dBuV | Av(CISPR) Margin (dB) |
| 2                            | .23775          | 18.6                 | Ca  | 0                   | 0                | 9.3                                 | 27.9                   | -                           | -              | 52.17                        | -24.27                |
| 4                            | .357            | 20.54                | Ca  | 0                   | 0                | 9.3                                 | 29.84                  | -                           | -              | 48.8                         | -18.96                |
| 6                            | .474            | 19.51                | Ca  | 0                   | 0                | 9.3                                 | 28.81                  | -                           | -              | 46.44                        | -17.63                |
| 8                            | .59325          | 20.2                 | Ca  | 0                   | .1               | 9.3                                 | 29.6                   | -                           | -              | 46                           | -16.4                 |
| 10                           | 1.068           | 16.89                | Ca  | 0                   | .1               | 9.3                                 | 26.29                  | -                           | -              | 46                           | -19.71                |
| 12                           | 5.802           | 5.58                 | Ca  | 0                   | .1               | 9.3                                 | 14.98                  | -                           | -              | 50                           | -35.02                |
| 1                            | .23775          | 23.18                | Qp  | 0                   | 0                | 9.3                                 | 32.48                  | 62.17                       | -29.69         | -                            | -                     |
| 3                            | .357            | 22.36                | Qp  | 0                   | 0                | 9.3                                 | 31.66                  | 58.8                        | -27.14         | -                            | -                     |
| 5                            | .474            | 20.77                | Qp  | 0                   | 0                | 9.3                                 | 30.07                  | 56.44                       | -26.37         | -                            | -                     |
| 7                            | .59325          | 21.53                | Qp  | 0                   | .1               | 9.3                                 | 30.93                  | 56                          | -25.07         | -                            | -                     |
| 9                            | 1.06575         | 18.5                 | Qp  | 0                   | .1               | 9.3                                 | 27.9                   | 56                          | -28.1          | -                            | -                     |
| 11                           | 5.79975         | 15.49                | Qp  | 0                   | .1               | 9.3                                 | 24.89                  | 60                          | -35.11         | -                            | -                     |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                  |                                     |                        |                             |                |                              |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|------------------|-------------------------------------|------------------------|-----------------------------|----------------|------------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | 175765 LISN L2 (dB) | C2&C3 cable (dB) | TekBox Limiter TBFL1 Model 207 (dB) | Corrected Reading dBuV | FCC Part 15 Class B QP dBuV | QP Margin (dB) | FCC Part 15 Class B Avg dBuV | Av(CISPR) Margin (dB) |
| 14                           | .23775          | 17.93                | Ca  | 0                   | 0                | 9.3                                 | 27.23                  | -                           | -              | 52.17                        | -24.94                |
| 16                           | .357            | 20.1                 | Ca  | 0                   | 0                | 9.3                                 | 29.4                   | -                           | -              | 48.8                         | -19.4                 |
| 18                           | .474            | 19.48                | Ca  | 0                   | 0                | 9.3                                 | 28.78                  | -                           | -              | 46.44                        | -17.66                |
| 20                           | .59325          | 19.92                | Ca  | 0                   | .1               | 9.3                                 | 29.32                  | -                           | -              | 46                           | -16.68                |
| 22                           | 1.068           | 16.84                | Ca  | 0                   | .1               | 9.3                                 | 26.24                  | -                           | -              | 46                           | -19.76                |
| 24                           | 5.82675         | 9.19                 | Ca  | 0                   | .1               | 9.3                                 | 18.59                  | -                           | -              | 50                           | -31.41                |
| 13                           | .23775          | 22.68                | Qp  | 0                   | 0                | 9.3                                 | 31.98                  | 62.17                       | -30.19         | -                            | -                     |
| 15                           | .35475          | 22.08                | Qp  | 0                   | 0                | 9.3                                 | 31.38                  | 58.85                       | -27.47         | -                            | -                     |
| 17                           | .474            | 20.72                | Qp  | 0                   | 0                | 9.3                                 | 30.02                  | 56.44                       | -26.42         | -                            | -                     |
| 19                           | .59325          | 21.01                | Qp  | 0                   | .1               | 9.3                                 | 30.41                  | 56                          | -25.59         | -                            | -                     |
| 21                           | 1.06688         | 18.34                | Qp  | 0                   | .1               | 9.3                                 | 27.74                  | 56                          | -28.26         | -                            | -                     |
| 23                           | 5.7975          | 18.89                | Qp  | 0                   | .1               | 9.3                                 | 28.29                  | 60                          | -31.71         | -                            | -                     |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## 12. SETUP PHOTOS

Please refer to 14040867-EP1V1 for setup photos

## END OF TEST REPORT