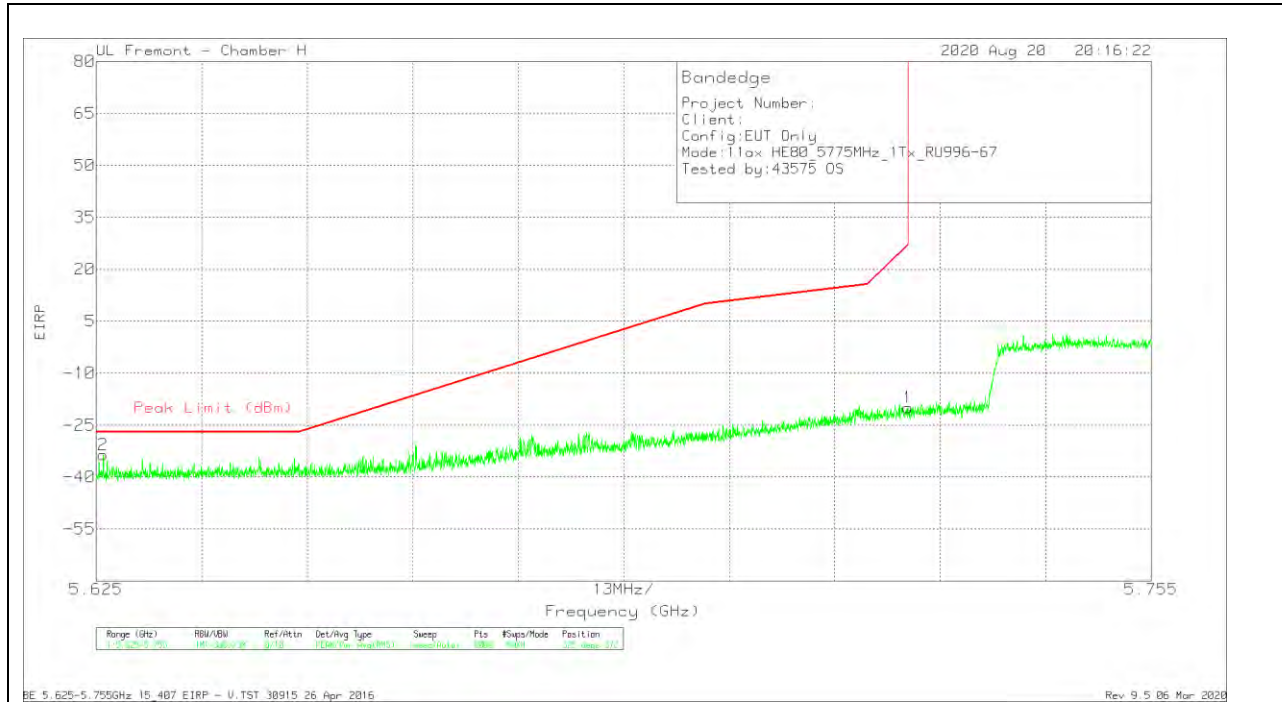


## VERTICAL RESULT

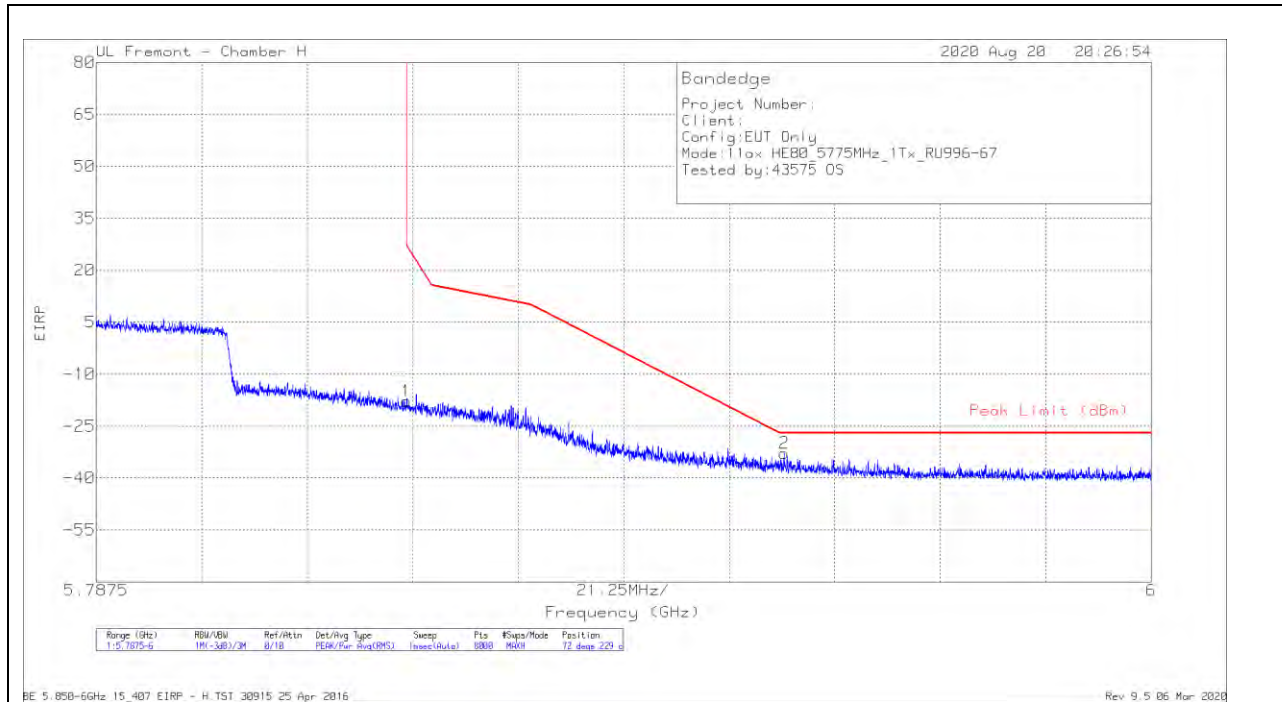


| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.62586         | -59.5               | Pk  | 35.2           | -21.1                 | 11.8                   | -33.6                  | -27              | -6.6           | 325            | 372         | V        |
| 1      | 5.725           | -45.66              | Pk  | 35             | -21.1                 | 11.8                   | -19.96                 | 27               | -46.96         | 325            | 372         | V        |

Pk - Peak detector

## BANDEDGE (CHANNEL 155 HIGH EDGE)

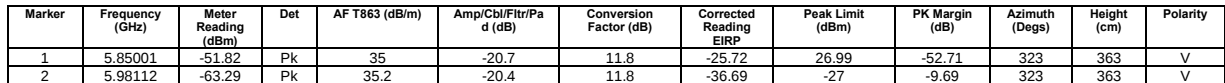
### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -43.9               | PK  | 35             | -20.7                 | 11.8                   | -17.8                  | 26.98            | -44.78         | 72             | 229         | H        |
| 2      | 5.92604         | -59.34              | PK  | 35.1           | -20.4                 | 11.8                   | -32.84                 | -27              | -5.84          | 72             | 229         | H        |

Pk - Peak detector

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UL VERIFICATION SERVICES INC.

TEL:(510) 319-4000

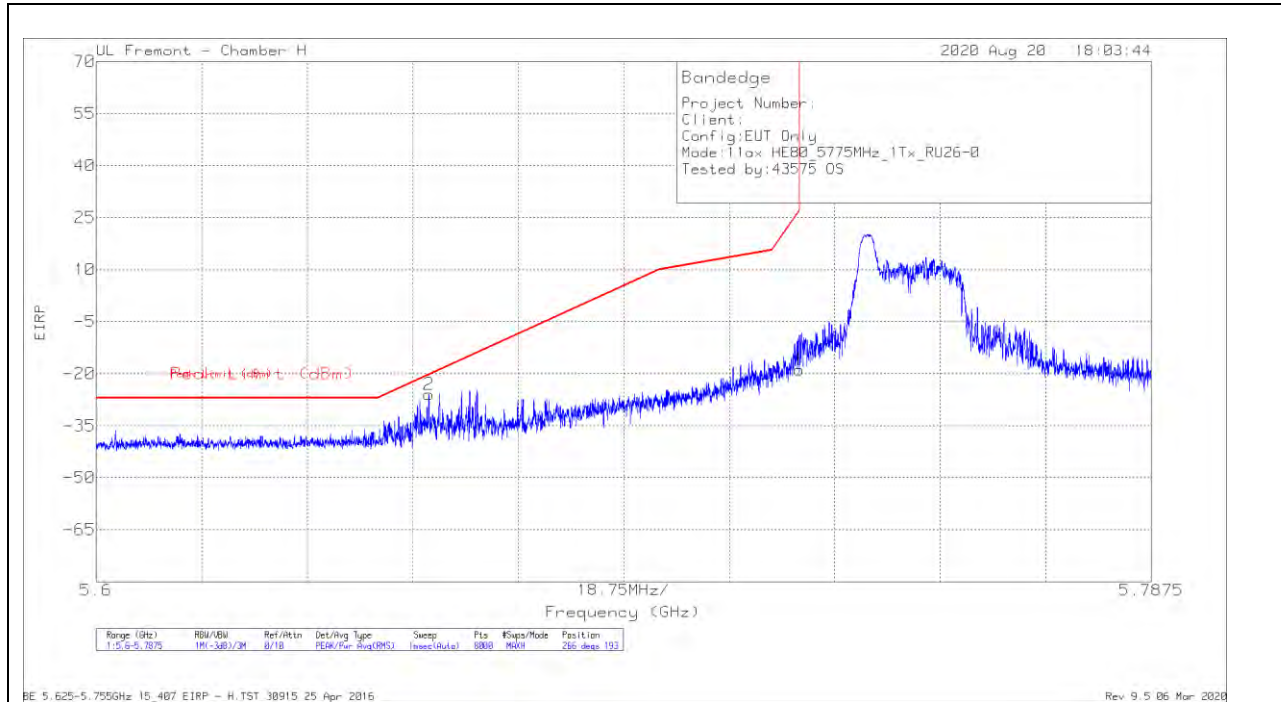
FAX:(510) 661-0888

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**1TX ANT 5 – 26 Tones, RU Index 0**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

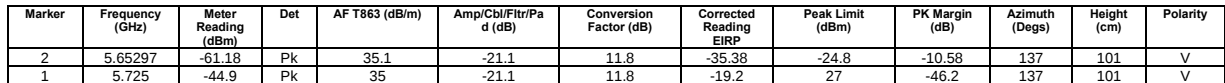
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.65912         | -51.87              | PK  | 35.1           | -21                    | 11.8                   | -25.97                 | -20.25           | -5.72          | 266            | 193         | H        |
| 1      | 5.72498         | -44.59              | PK  | 35             | -21.1                  | 11.8                   | -18.89                 | 26.96            | -45.85         | 266            | 193         | H        |

Pk - Peak detector

## Page 405 of 439



UL VERIFICATION SERVICES INC.

TEL:(510) 319-4000

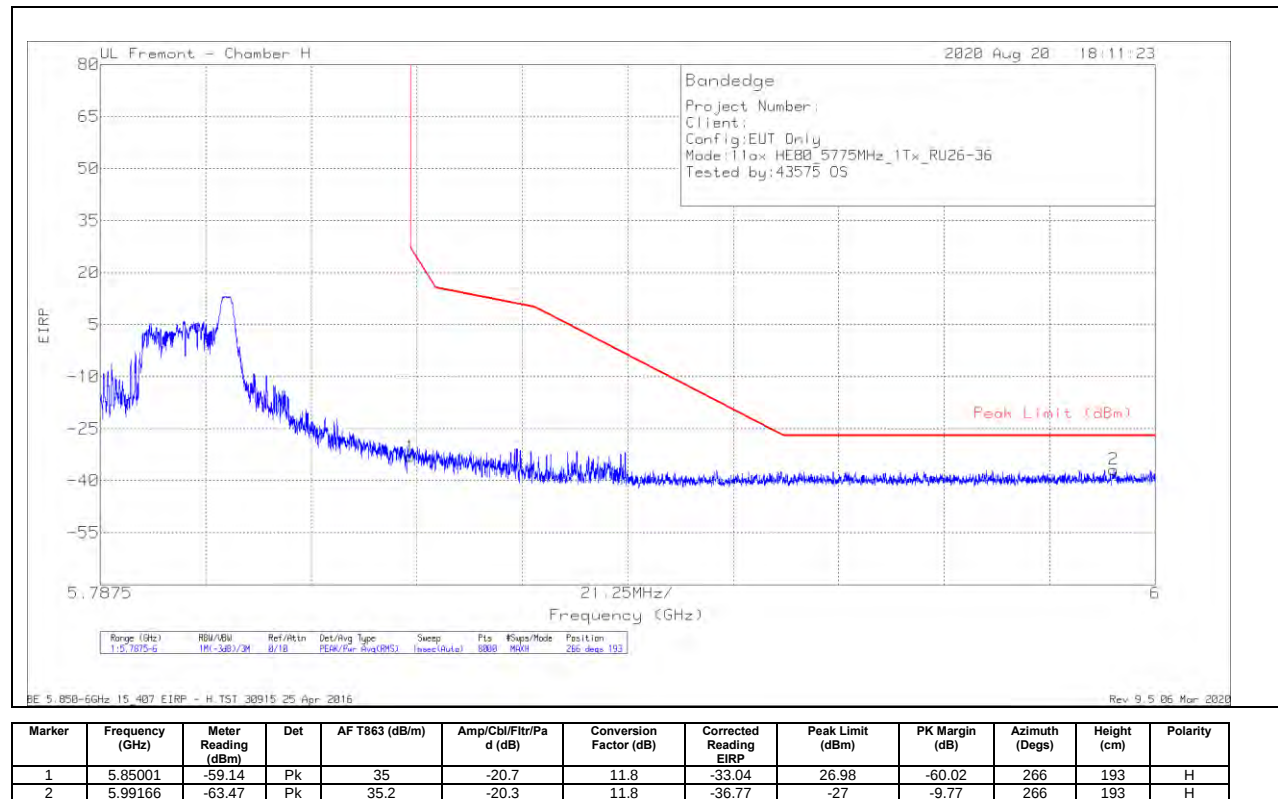
FAX:(510) 661-0888

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**1TX ANT 5 – 26 Tones, RU Index 36**

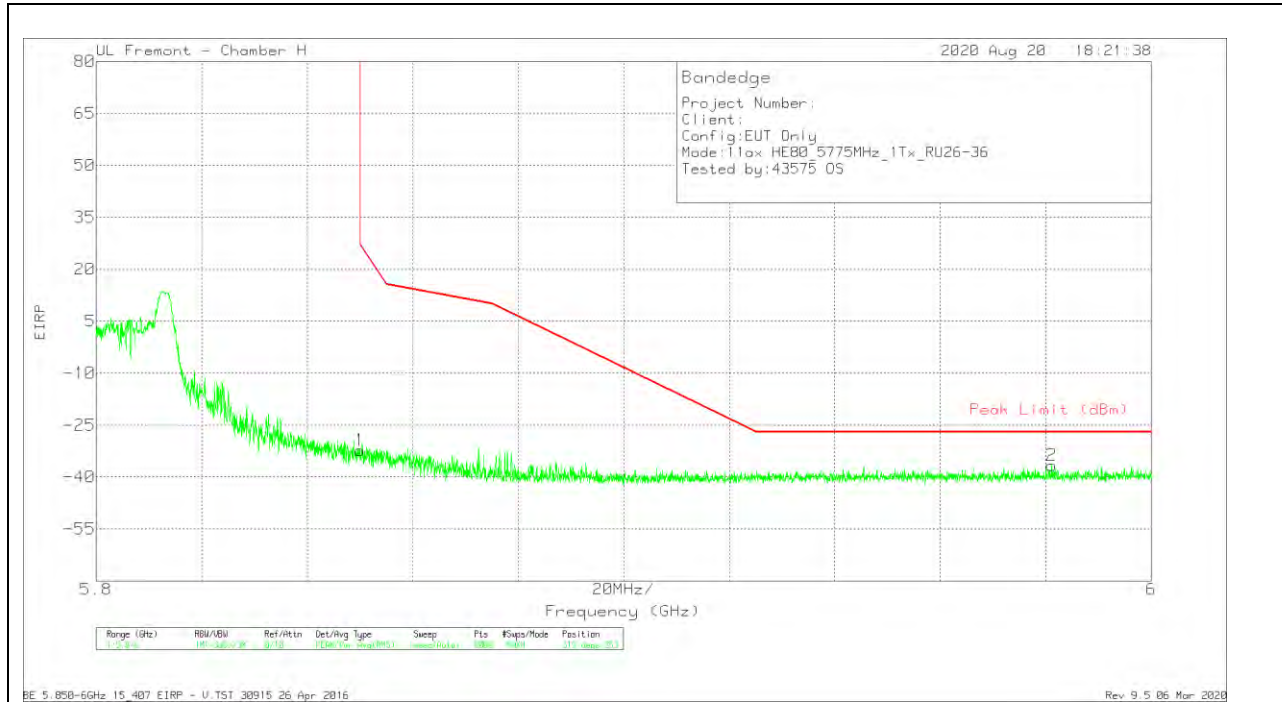
**BANDEDGE (CHANNEL 155 HIGH EDGE)**

**HORIZONTAL RESULT**



Pk - Peak detector

## VERTICAL RESULT



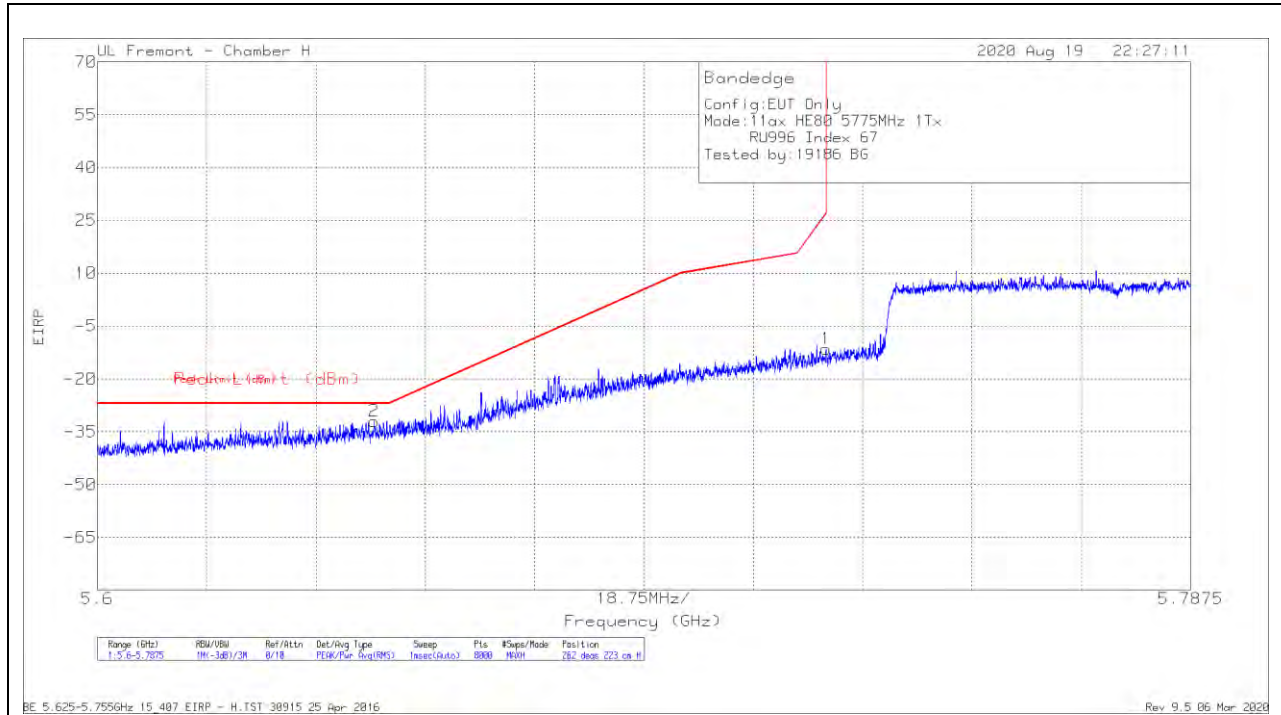
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -58.36              | Pk  | 35             | -20.7                  | 11.8                   | -32.26                 | 26.99            | -59.25         | 319            | 253         | V        |
| 2      | 5.98112         | -63.19              | Pk  | 35.2           | -20.4                  | 11.8                   | -36.59                 | -27              | -9.59          | 319            | 253         | V        |

Pk - Peak detector

**1TX ANT 6 – SU, RU Index 67**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

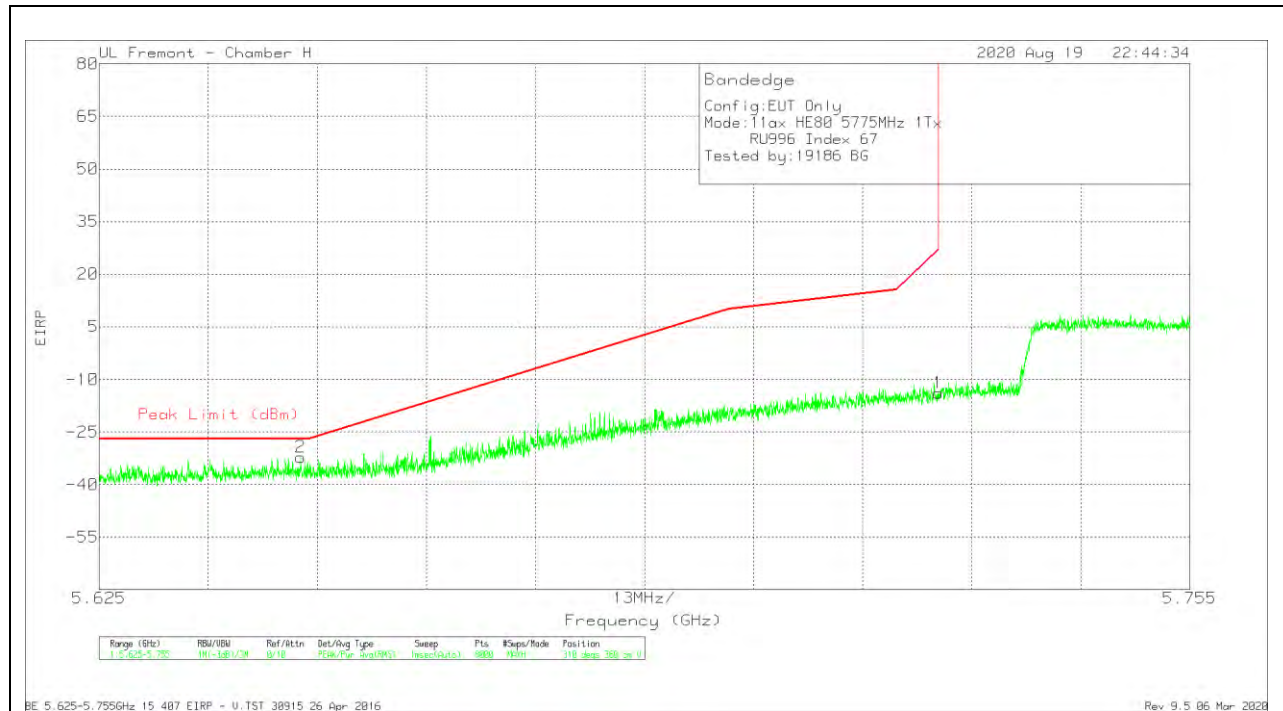
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Filtr/Par d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|--------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.64744         | -57.86              | Pk  | 35.1           | -21                      | 11.8                   | -31.96                 | -27              | -4.96          | 262            | 223         | H        |
| 1      | 5.72498         | -37.26              | Pk  | 35             | -21.1                    | 11.8                   | -11.56                 | 26.96            | -38.52         | 262            | 223         | H        |

Pk - Peak detector

## VERTICAL RESULT

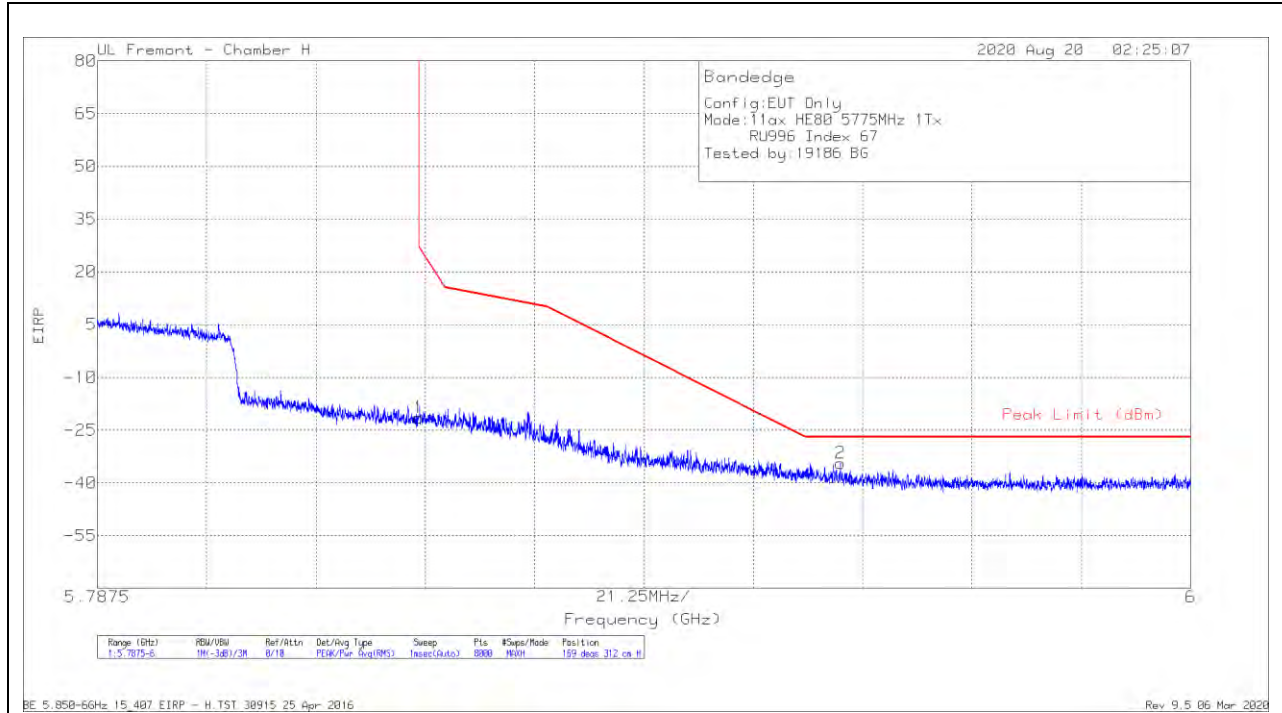


| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.64902         | -58.17              | Pk  | 35.1           | -21                   | 11.8                   | -32.27                 | -27              | -5.27          | 310            | 360         | V        |
| 1      | 5.725           | -39.51              | Pk  | 35             | -21.1                 | 11.8                   | -13.81                 | 27               | -40.81         | 310            | 360         | V        |

Pk - Peak detector

## BANDEDGE (CHANNEL 155 HIGH EDGE)

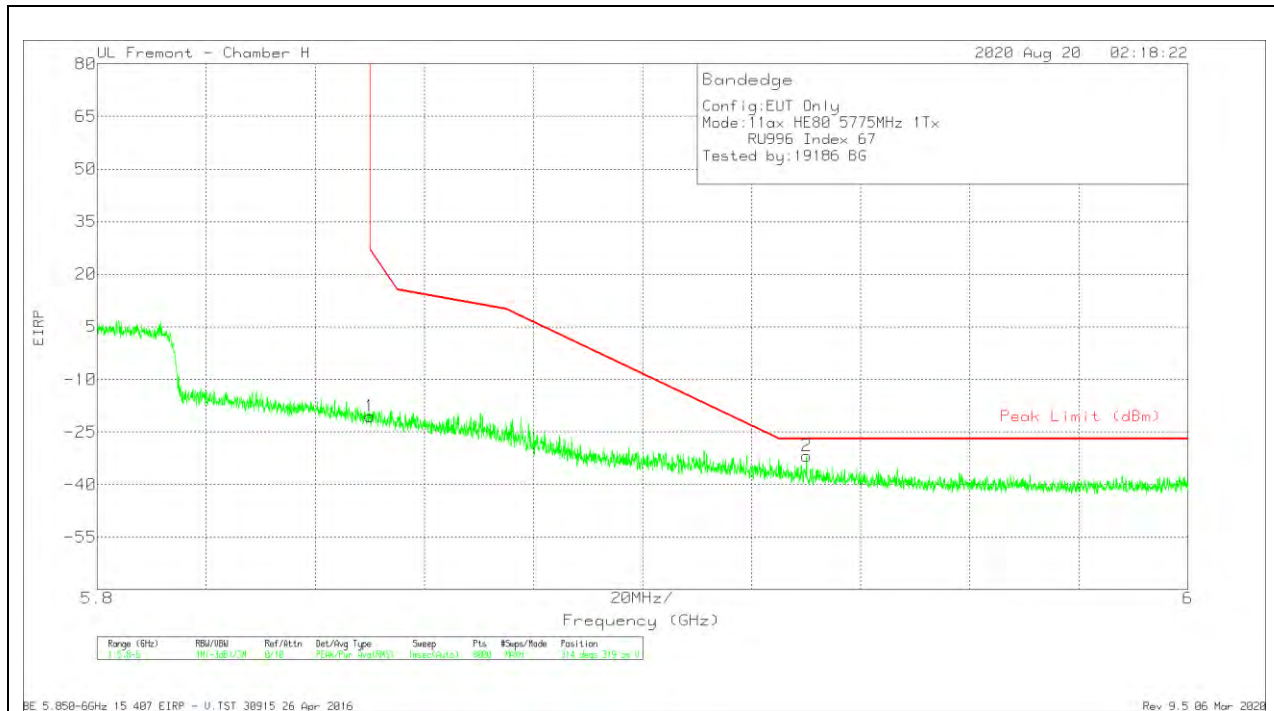
### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -47.55              | Pk  | 35             | -20.7                  | 11.8                   | -21.45                 | 26.98            | -48.43         | 169            | 312         | H        |
| 2      | 5.93194         | -60.73              | Pk  | 35.1           | -20.5                  | 11.8                   | -34.33                 | -27              | -7.33          | 169            | 312         | H        |

Pk - Peak detector

## VERTICAL RESULT



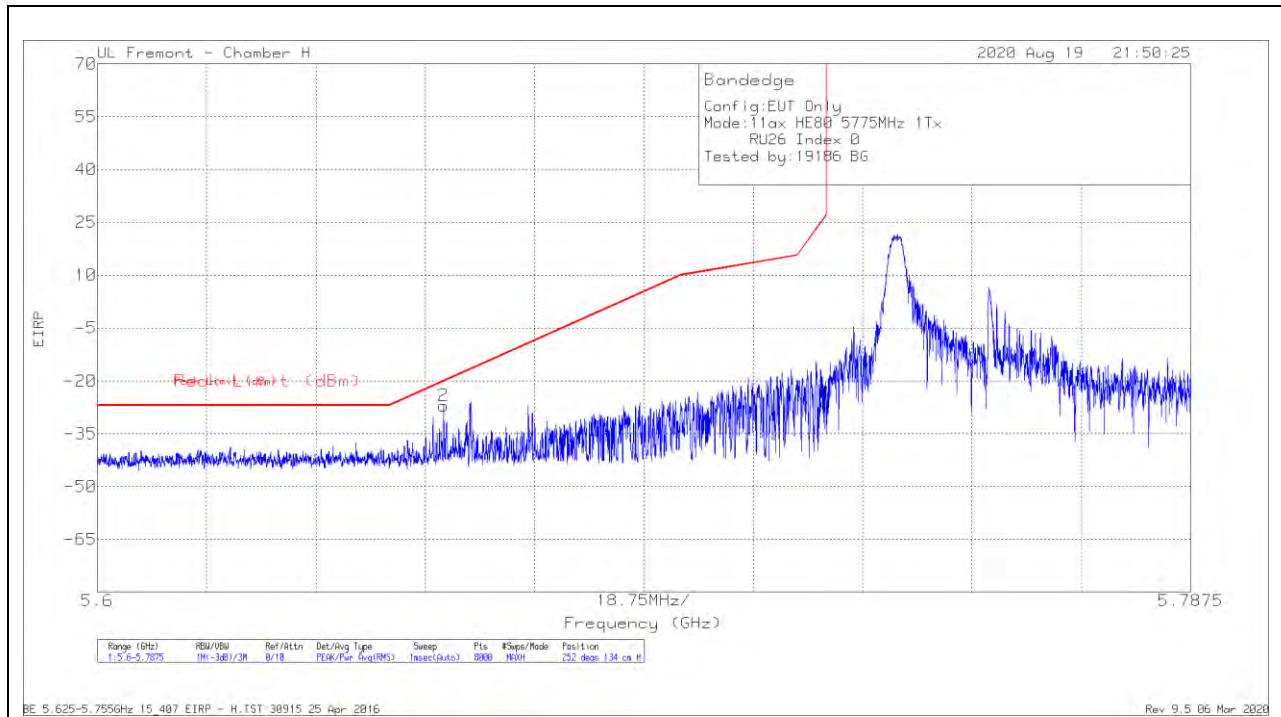
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dBm) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|---------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -46.7               | Pk  | 35            | -20.7                  | 11.8                   | -20.6                  | 26.99            | -47.59         | 314            | 319         | V        |
| 2      | 5.93007         | -58.39              | Pk  | 35.1          | -20.4                  | 11.8                   | -31.89                 | -27              | -4.89          | 314            | 319         | V        |

Pk - Peak detector

**1TX ANT 6 – 26 Tones, RU Index 0**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

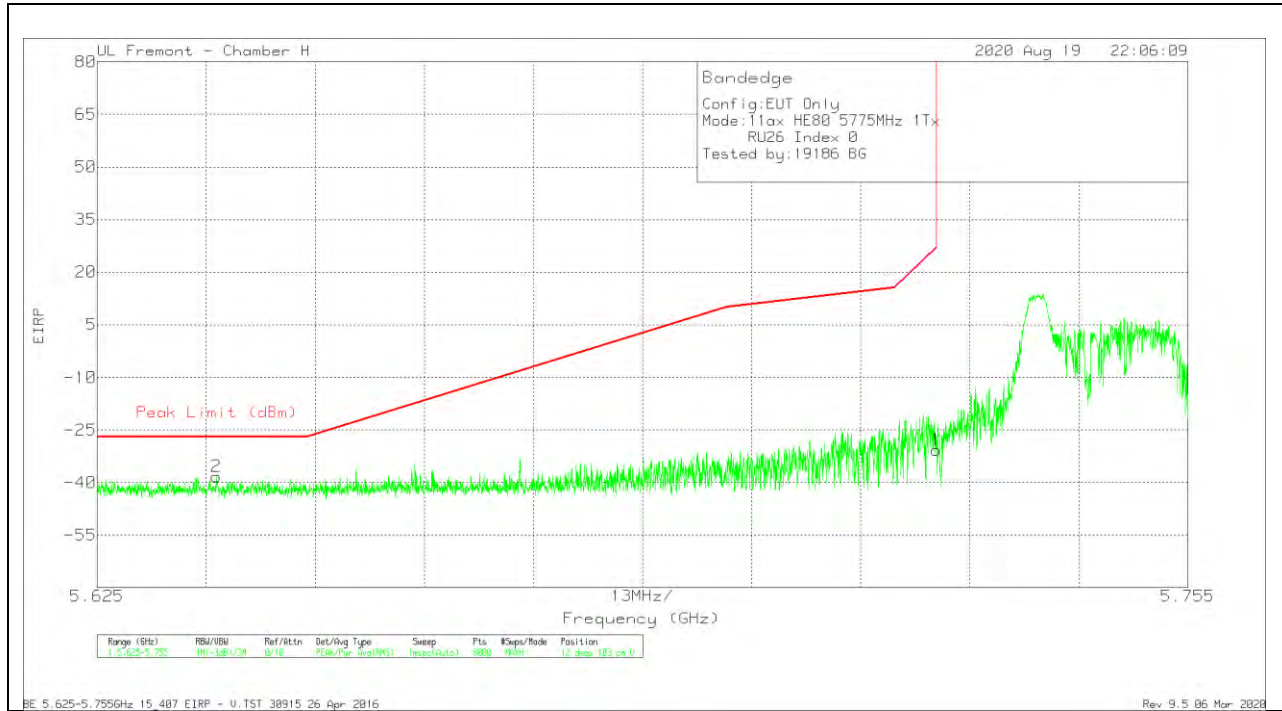
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.65937         | -52.99              | Pk  | 35.1           | -21                     | 11.8                   | -27.09                 | -20.06           | -7.03          | 252            | 134         | H        |
| 1      | 5.72498         | -52                 | Pk  | 35             | -21.1                   | 11.8                   | -26.3                  | 26.96            | -53.26         | 252            | 134         | H        |

Pk - Peak detector

## VERTICAL RESULT



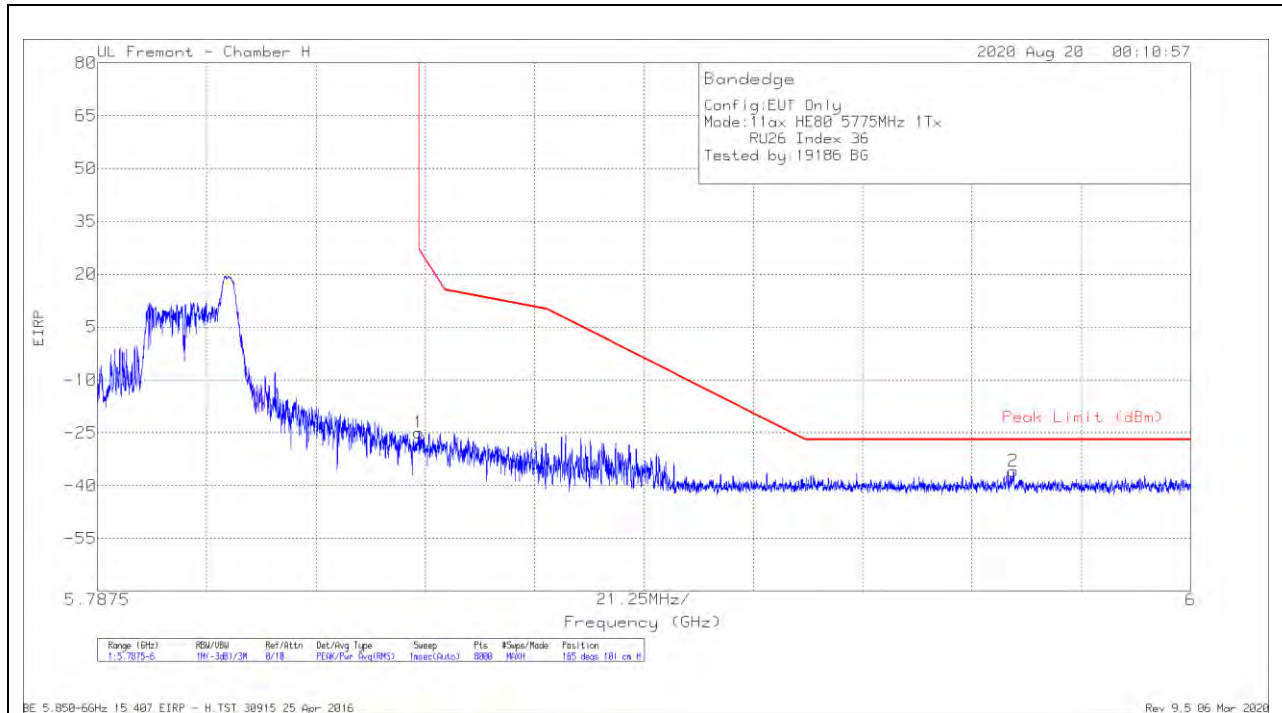
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.63922         | -64.28              | Pk  | 35.2           | -21                   | 11.8                   | -38.28                 | -27              | -11.28         | 12             | 103         | V        |
| 1      | 5.725           | -56.46              | Pk  | 35             | -21.1                 | 11.8                   | -30.76                 | 27               | -57.76         | 12             | 103         | V        |

Pk - Peak detector

**1TX ANT 6 – 26 Tones, RU Index 36**

**BANDEDGE (CHANNEL 155 HIGH EDGE)**

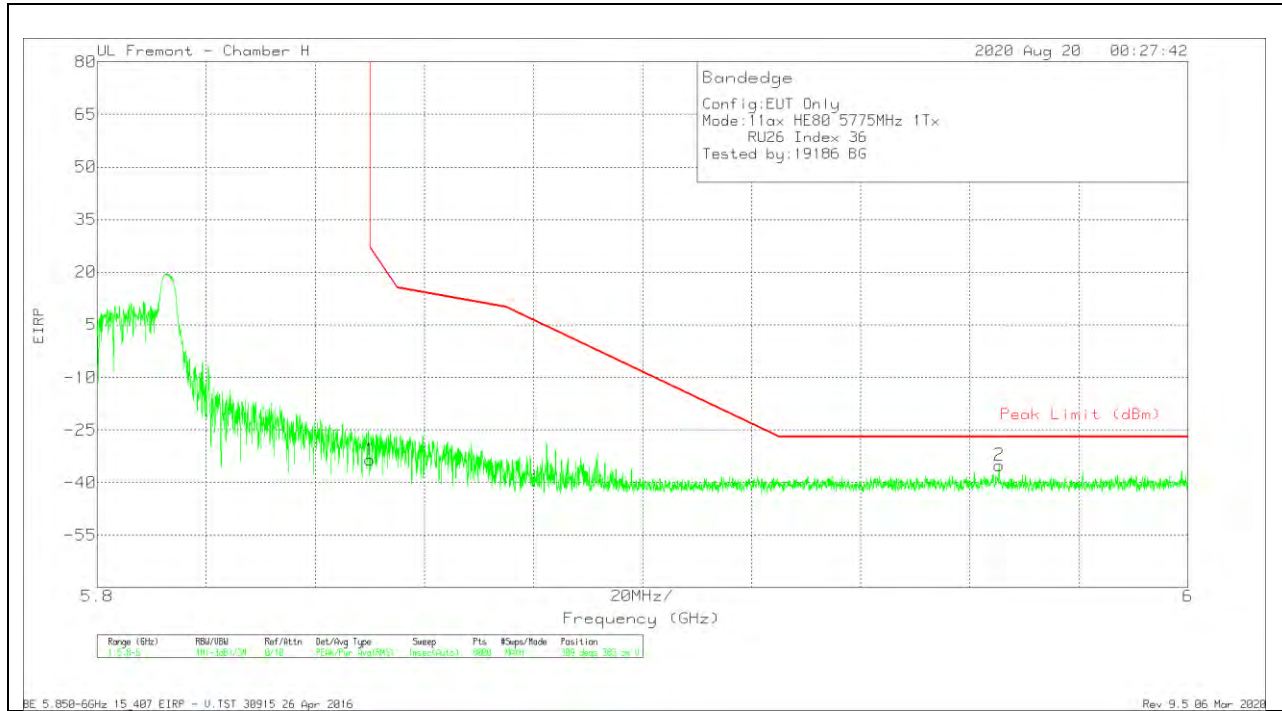
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -51.15              | Pk  | 35             | -20.7                   | 11.8                   | -25.05                 | 26.98            | -52.03         | 165            | 101         | H        |
| 2      | 5.96555         | -62.44              | Pk  | 35.2           | -20.4                   | 11.8                   | -35.84                 | -27              | -8.84          | 165            | 101         | H        |

Pk - Peak detector

## VERTICAL RESULT



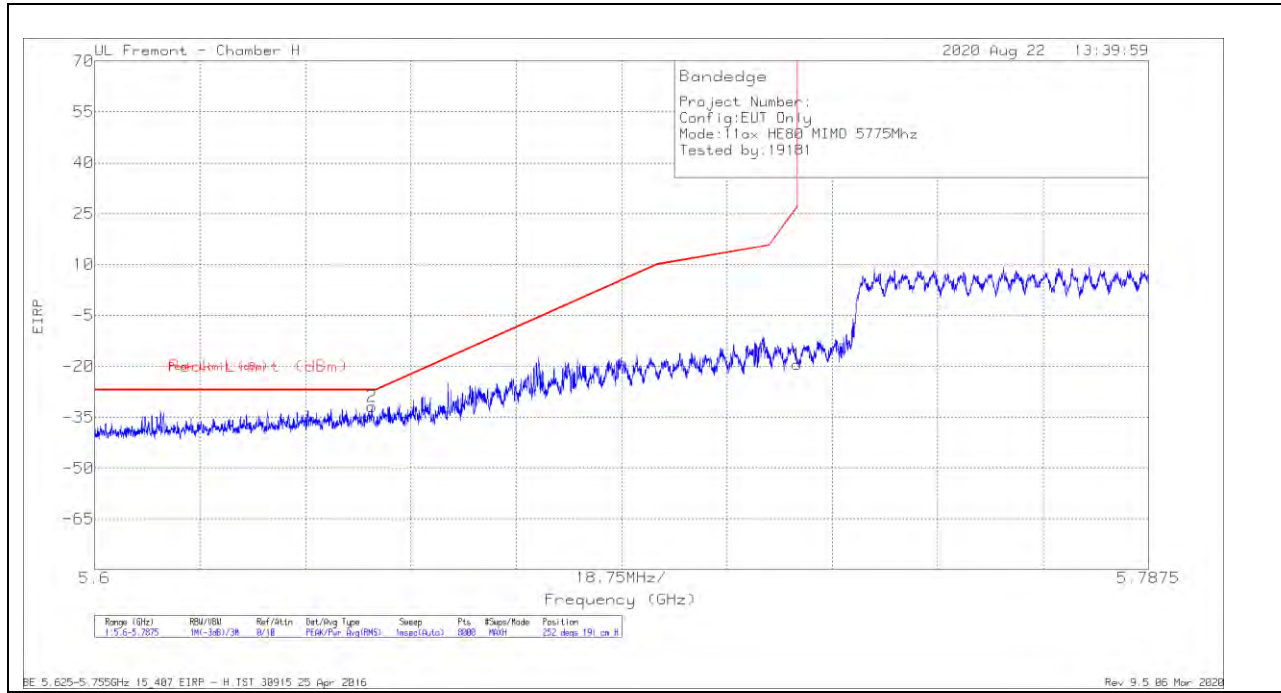
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -59.51              | Pk  | 35             | -20.7                 | 11.8                   | -33.41                 | 26.99            | -60.4          | 309            | 383         | V        |
| 2      | 5.96539         | -61.66              | Pk  | 35.2           | -20.4                 | 11.8                   | -35.06                 | -27              | -8.06          | 309            | 383         | V        |

Pk - Peak detector

**2TX ANT 5 + ANT 6 OFDMA MODE – SU, RU Index 67**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

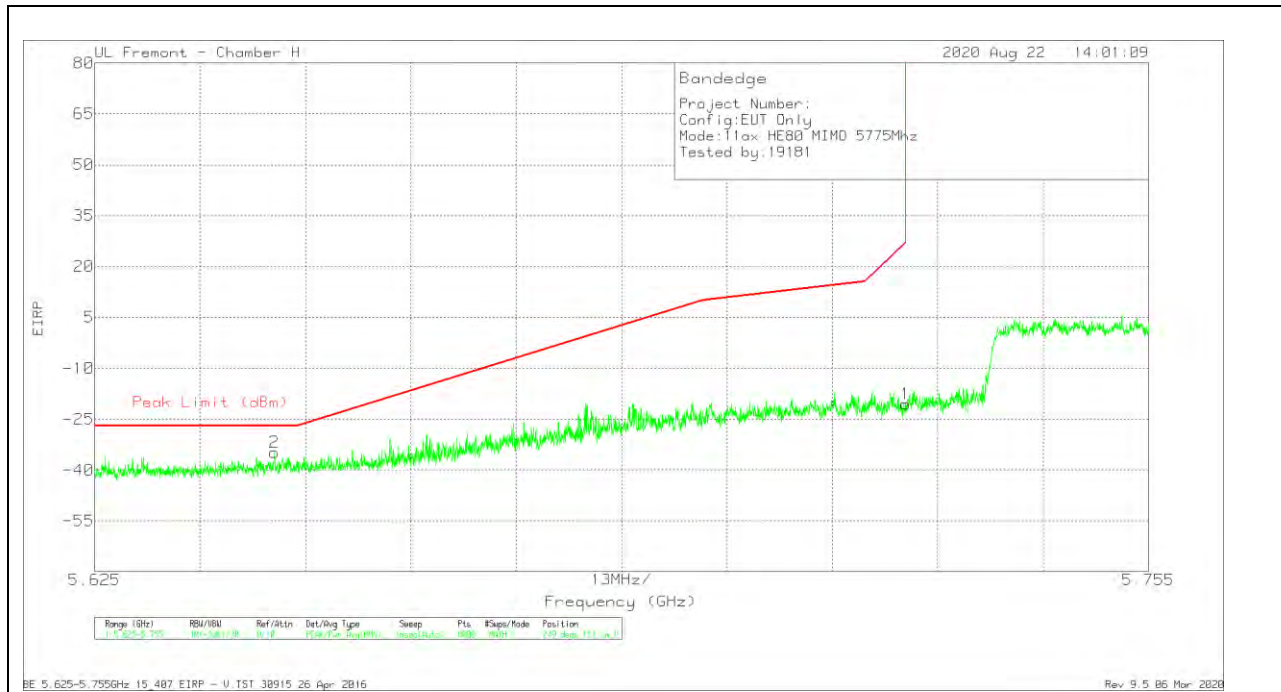
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.64932         | -57.72              | Pk  | 35.1           | -21                   | 11.8                   | -31.82                 | -27              | -4.82          | 252            | 191         | H        |
| 1      | 5.72498         | -45.08              | Pk  | 35             | -21.1                 | 11.8                   | -19.38                 | 26.96            | -46.34         | 252            | 191         | H        |

Pk - Peak detector

## VERTICAL RESULT

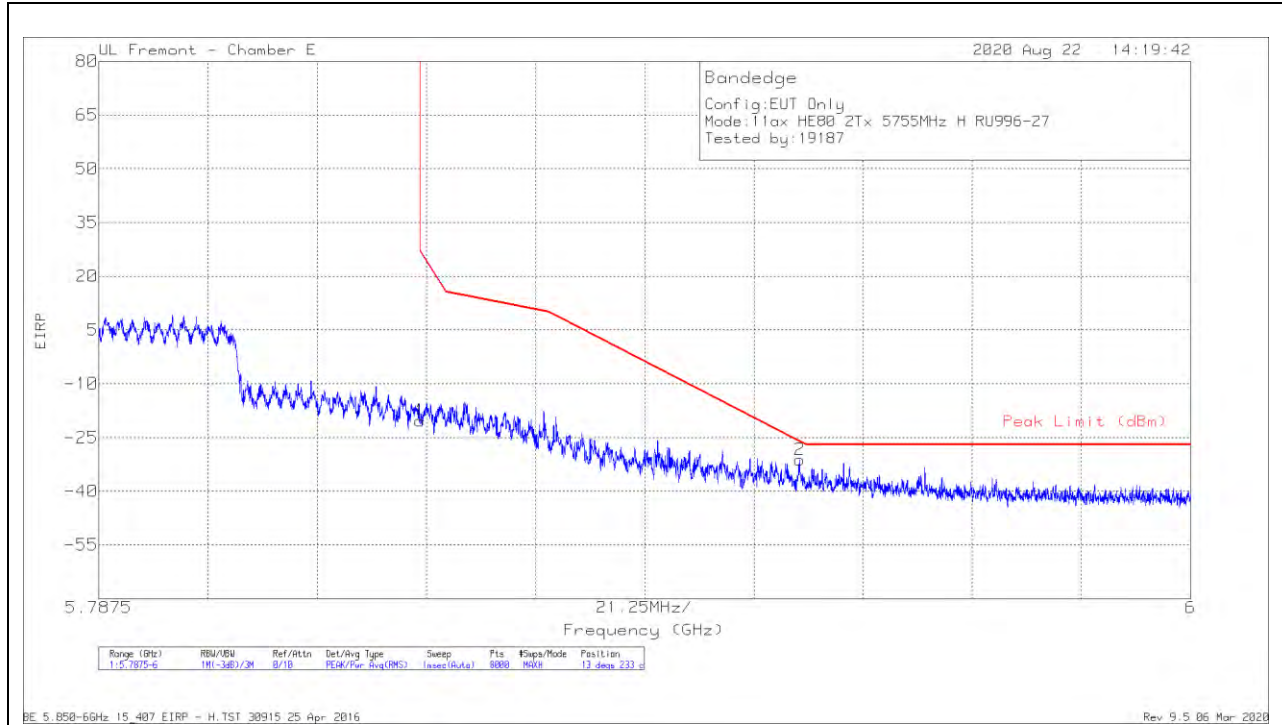


| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T863 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.64717         | -60.61              | Pk  | 35.1           | -21                   | 11.8                   | -34.71                 | -27              | -7.71          | 249            | 151         | V        |
| 1      | 5.725           | -46.2               | Pk  | 35             | -21.1                 | 11.8                   | -20.5                  | 27               | -47.5          | 249            | 151         | V        |

Pk - Peak detector

## BANDEDGE (CHANNEL 155 HIGH EDGE)

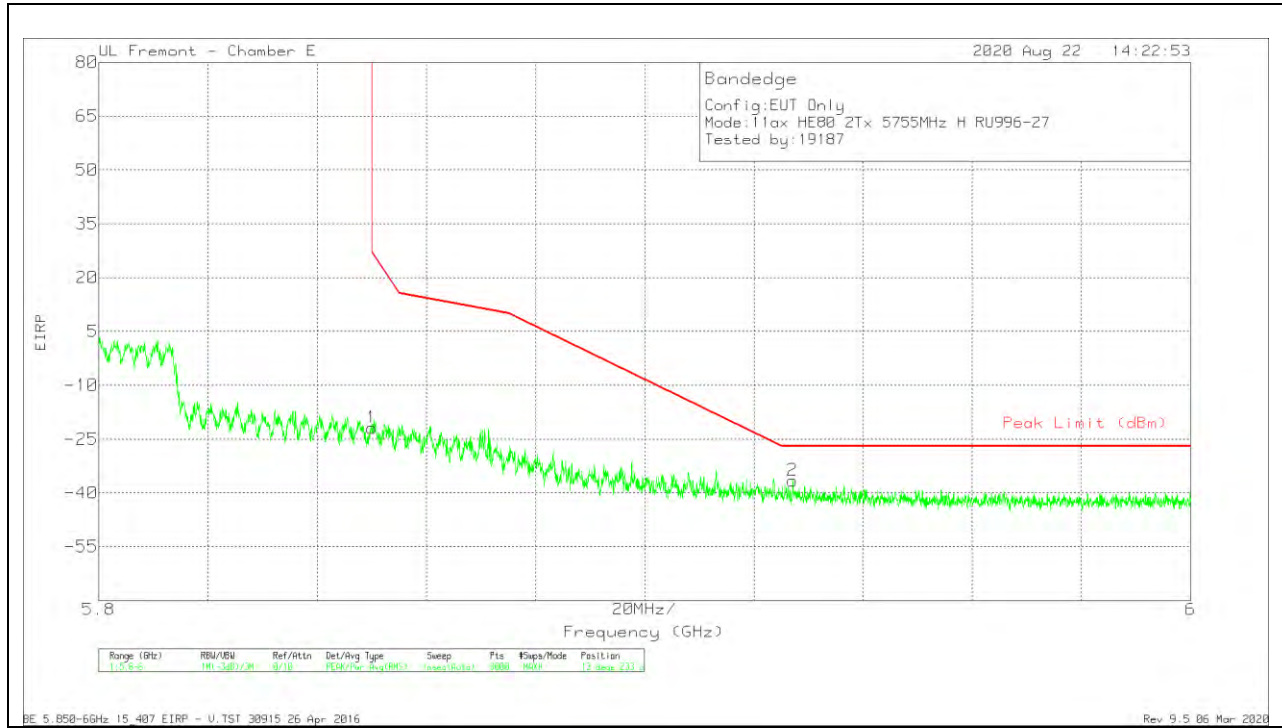
### HORIZONTAL RESULT



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dBm) | Amp/Cbl/Filtr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|---------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -46.38              | Pk  | 34.9          | -20.7                   | 11.8                   | -20.38                 | 26.98            | -47.36         | 13             | 233         | H        |
| 2      | 5.92389         | -57.24              | Pk  | 35.1          | -20.9                   | 11.8                   | -31.24                 | -26.18           | -5.06          | 13             | 233         | H        |

Pk - Peak detector

## VERTICAL RESULT

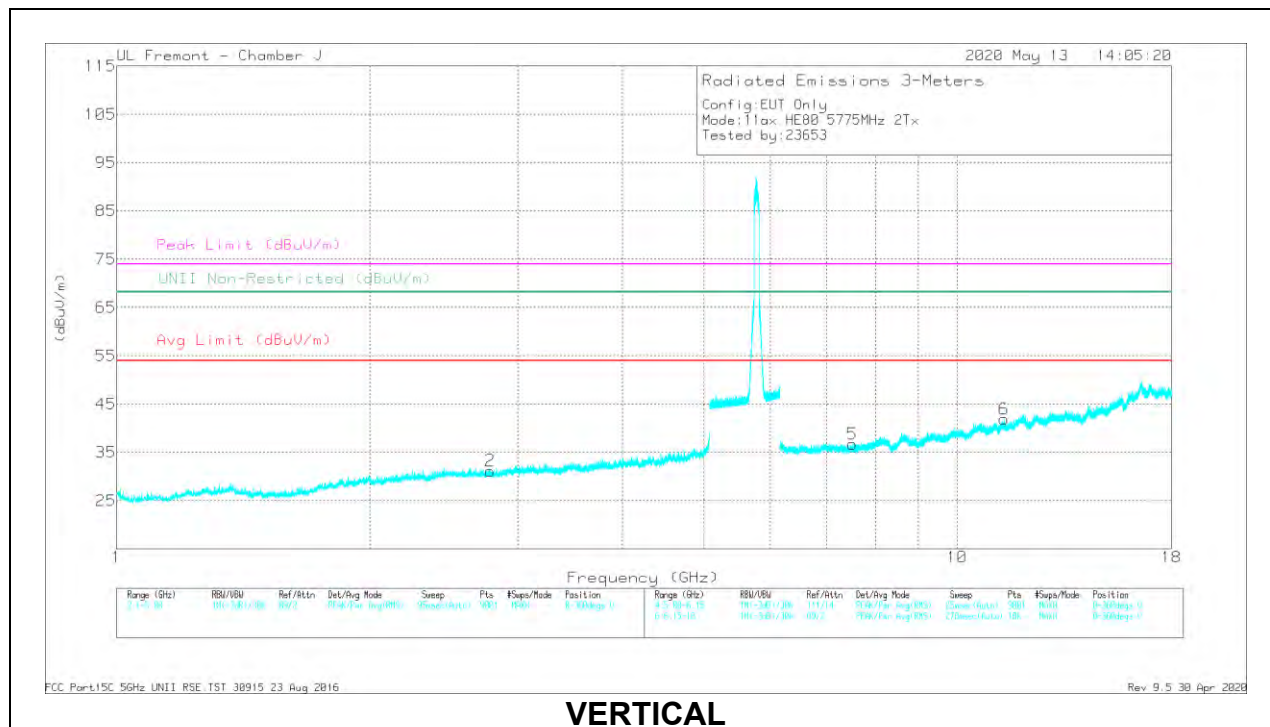
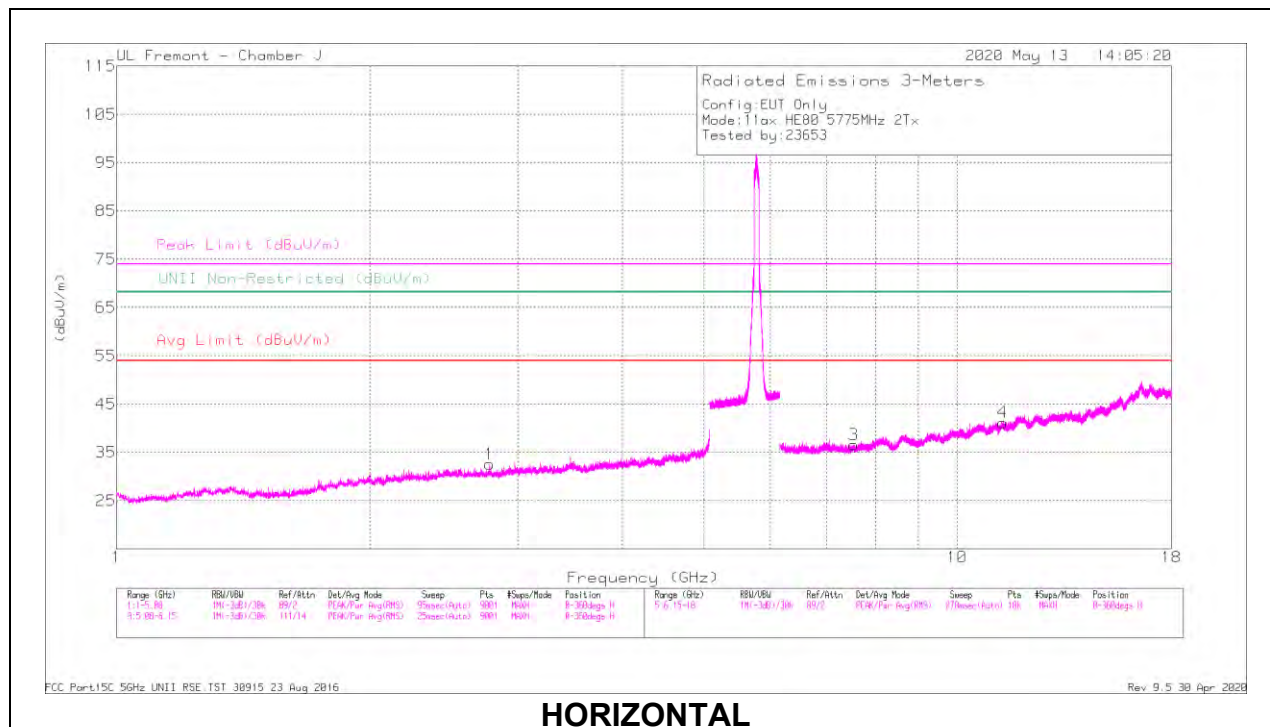


| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -47.87              | Pk  | 34.9           | -20.7                  | 11.8                   | -21.87                 | 26.99            | -48.86         | 13             | 233         | V        |
| 2      | 5.92712         | -62.44              | Pk  | 35.1           | -21                    | 11.8                   | -36.54                 | -27              | -9.54          | 13             | 233         | V        |

Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### MID CHANNEL RESULTS



## RADIATED EMISSIONS

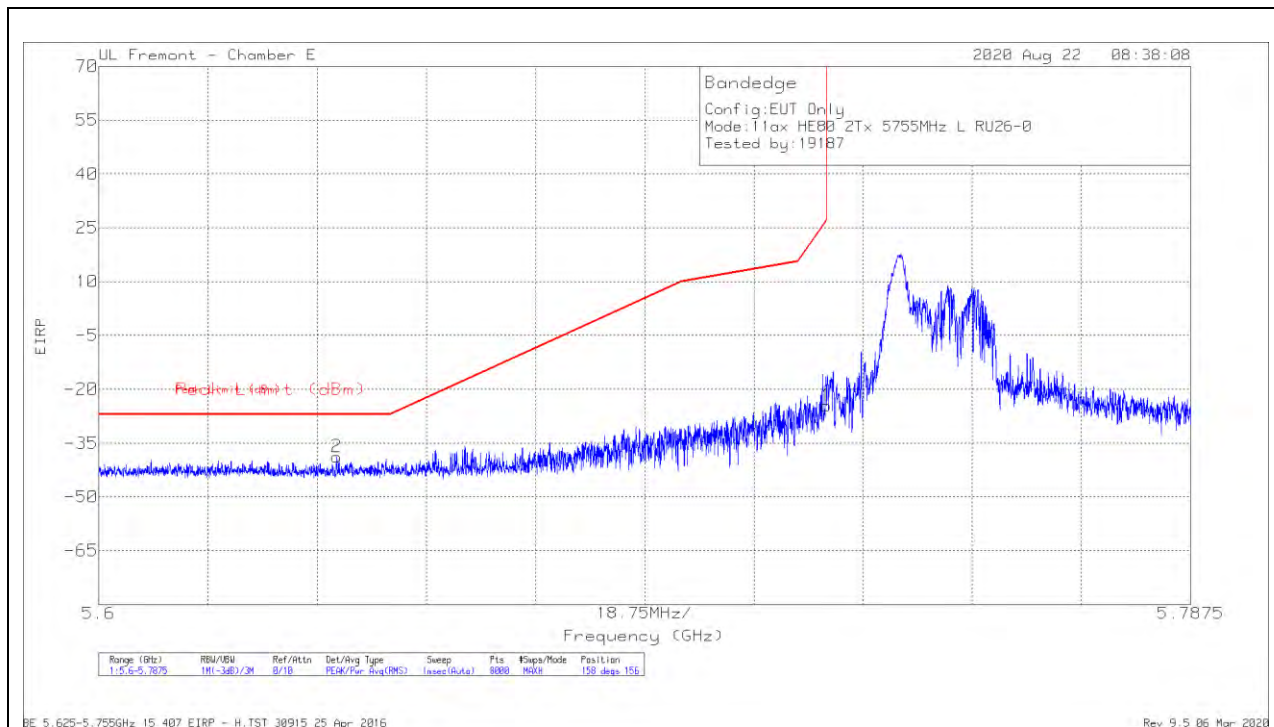
| Marker | Frequency (MHz) | Motor Reading (dBuV) | Det  | AF T344 (dBm) | Amp/CatF In/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNI Non-Restricted (dBuV/m) | PK Margin (dB) | Altitude (Degrees) | Height (m) | Polarity |
|--------|-----------------|----------------------|------|---------------|----------------------|----------------------------|--------------------|-------------|---------------------|----------------|-----------------------------|----------------|--------------------|------------|----------|
| 1      | * 2.77943       | 43.29                | PK-U | 32.2          | -34.8                | 40.69                      | -                  | -           | 74                  | -33.31         | -                           | -              | 284                | 101        | H        |
|        | * 2.77639       | 32                   | ADR  | 32.2          | -34.8                | 28.57                      | 54                 | -24.43      | -                   | -              | -                           | -              | 284                | 101        | H        |
| 2      | * 2.78175       | 42.65                | PK-U | 32.5          | -34.8                | 40.15                      | -                  | -           | 74                  | -33.85         | -                           | -              | 323                | 183        | V        |
|        | * 2.78104       | 31.75                | ADR  | 32.3          | -34.8                | 29.42                      | 54                 | -24.58      | -                   | -              | -                           | -              | 323                | 183        | V        |
| 3      | * 7.53123       | 37.05                | PK-U | 35.7          | -27.4                | 45.35                      | -                  | -           | 74                  | -28.65         | -                           | -              | 171                | 231        | H        |
|        | * 7.53212       | 25.57                | ADR  | 35.7          | -27.4                | 34.04                      | 54                 | -19.96      | -                   | -              | -                           | -              | 171                | 231        | H        |
| 4      | * 11.33591      | 34.02                | PK-U | 38            | -22.9                | 43.12                      | -                  | -           | 74                  | -24.88         | -                           | -              | 160                | 355        | H        |
|        | * 11.34051      | 23.78                | ADR  | 38            | -22.9                | 39.05                      | 54                 | -14.95      | -                   | -              | -                           | -              | 160                | 355        | H        |
| 5      | * 7.50407       | 36.12                | PK-U | 35.6          | -27.5                | 44.22                      | -                  | -           | 74                  | -29.78         | -                           | -              | 77                 | 249        | V        |
|        | * 7.50677       | 26.38                | ADR  | 35.6          | -27.5                | 34.63                      | 54                 | -19.37      | -                   | -              | -                           | -              | 77                 | 249        | V        |
| 6      | * 11.37166      | 33.38                | PK-U | 38            | -22.8                | 40.58                      | -                  | -           | 74                  | -25.42         | -                           | -              | 237                | 193        | V        |
|        | * 11.37195      | 23.12                | ADR  | 38            | -22.8                | 38.49                      | 54                 | -15.51      | -                   | -              | -                           | -              | 237                | 193        | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PK-U - U-NII: Maximum Peak  
ADR - U-NII AD primary method, RMS average

**2TX ANT 5 + ANT 6 OFDMA MODE – 26 Tones, RU Index 0**

**BANDEDGE (CHANNEL 155 LOW EDGE)**

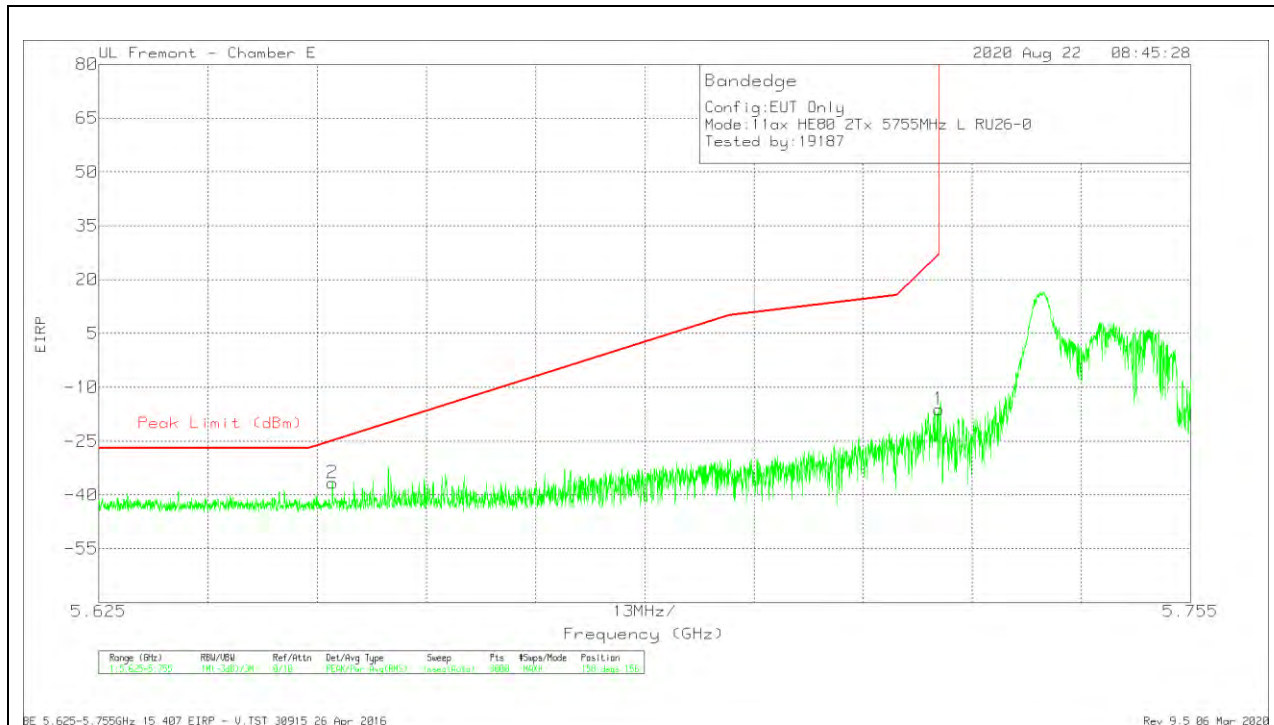
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/CbI/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.64086         | -63.71              | Pk  | 34.7           | -21.6                  | 11.8                   | -38.81                 | -27              | -11.81         | 158            | 156         | H        |
| 1      | 5.72498         | -49.87              | Pk  | 34.7           | -21.2                  | 11.8                   | -24.57                 | 26.96            | -51.53         | 158            | 156         | H        |

Pk - Peak detector

## VERTICAL RESULT



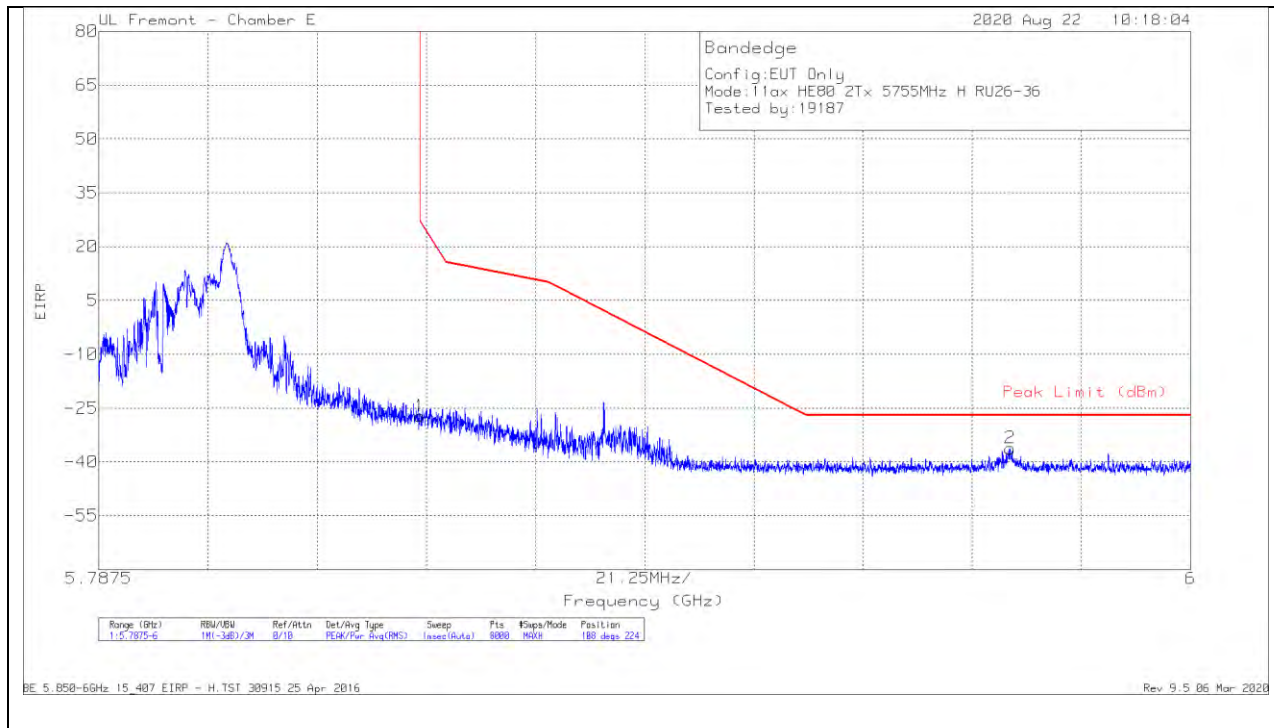
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Fitr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 2      | 5.65282         | -61.5               | Pk  | 34.7           | -21.6                  | 11.8                   | -36.6                  | -24.91           | -11.69         | 158            | 156         | V        |
| 1      | 5.725           | -41.44              | Pk  | 34.7           | -21.2                  | 11.8                   | -16.14                 | 27               | -43.14         | 158            | 156         | V        |

Pk - Peak detector

**2TX ANT 5 + ANT 6 OFDMA MODE – 26 Tones, RU Index 36**

**BANDEDGE (CHANNEL 155 HIGH EDGE)**

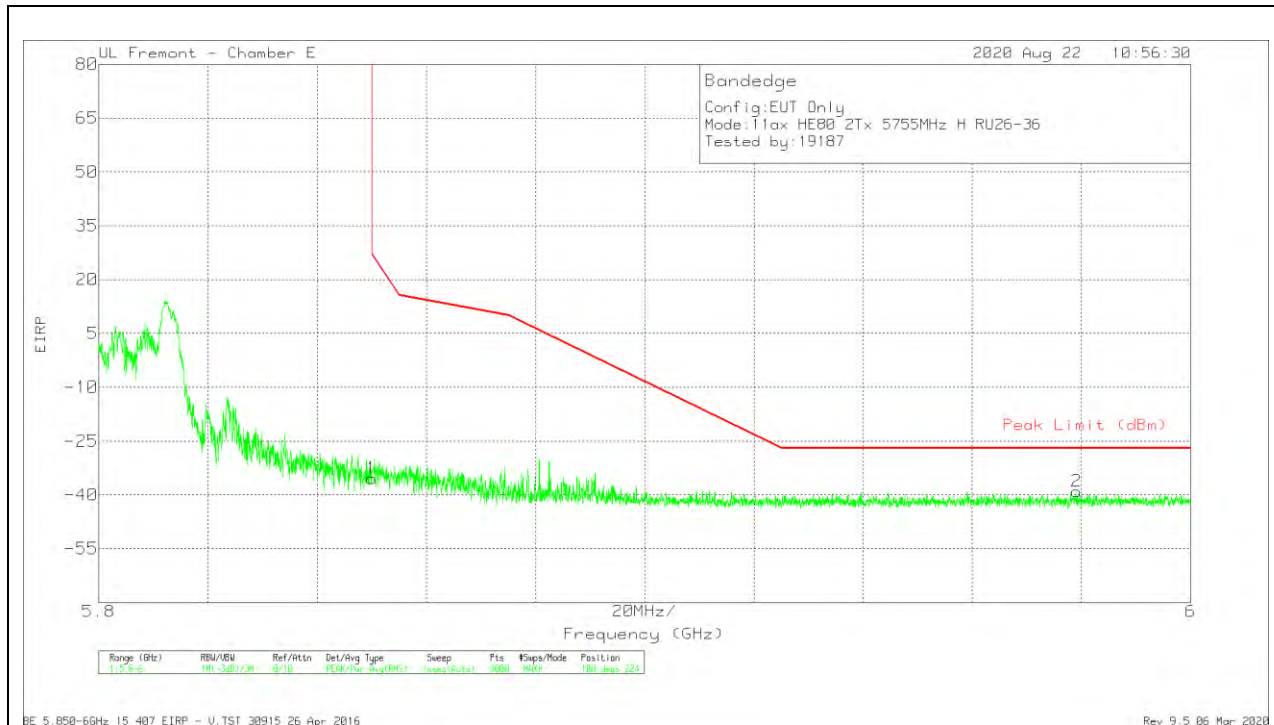
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cb/Filt/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-----------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -53.26              | Pk  | 34.9           | -20.7                 | 11.8                   | -27.26                 | 26.98            | -54.24         | 108            | 224         | H        |
| 2      | 5.96488         | -62.3               | Pk  | 35.2           | -20.9                 | 11.8                   | -36.2                  | -27              | -9.2           | 108            | 224         | H        |

Pk - Peak detector

## VERTICAL RESULT



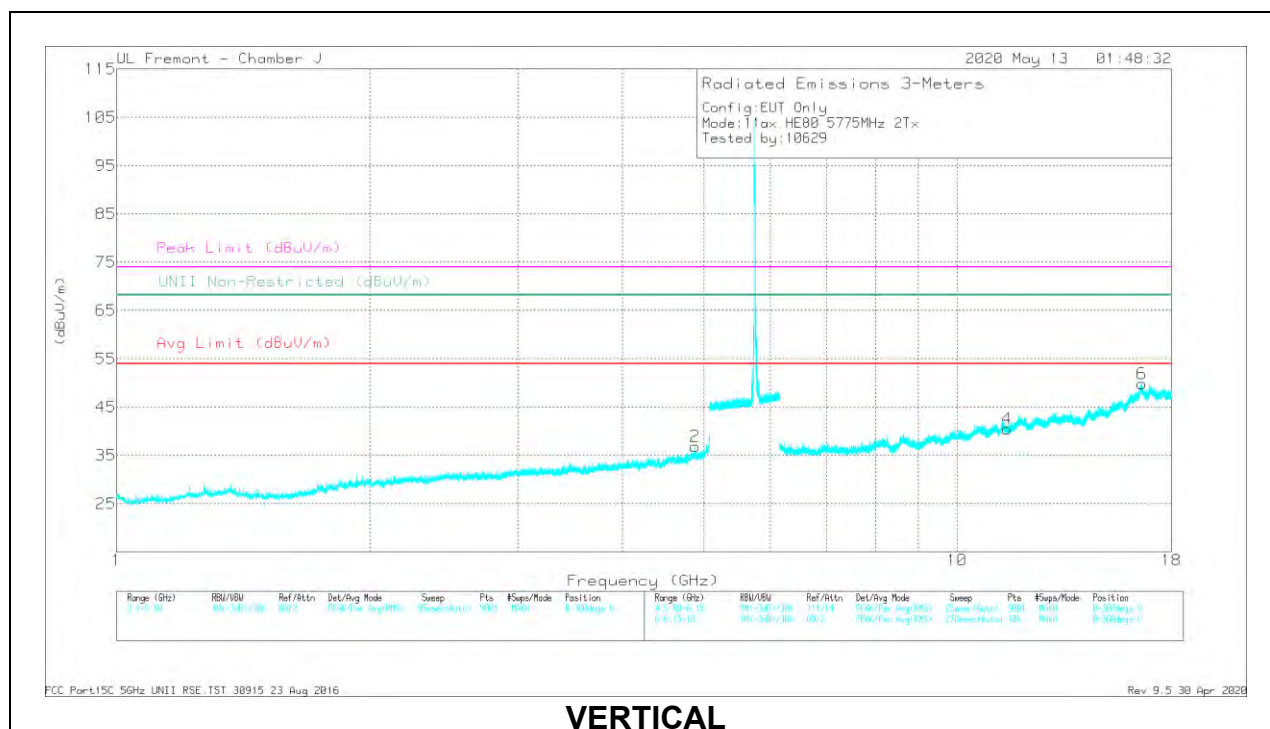
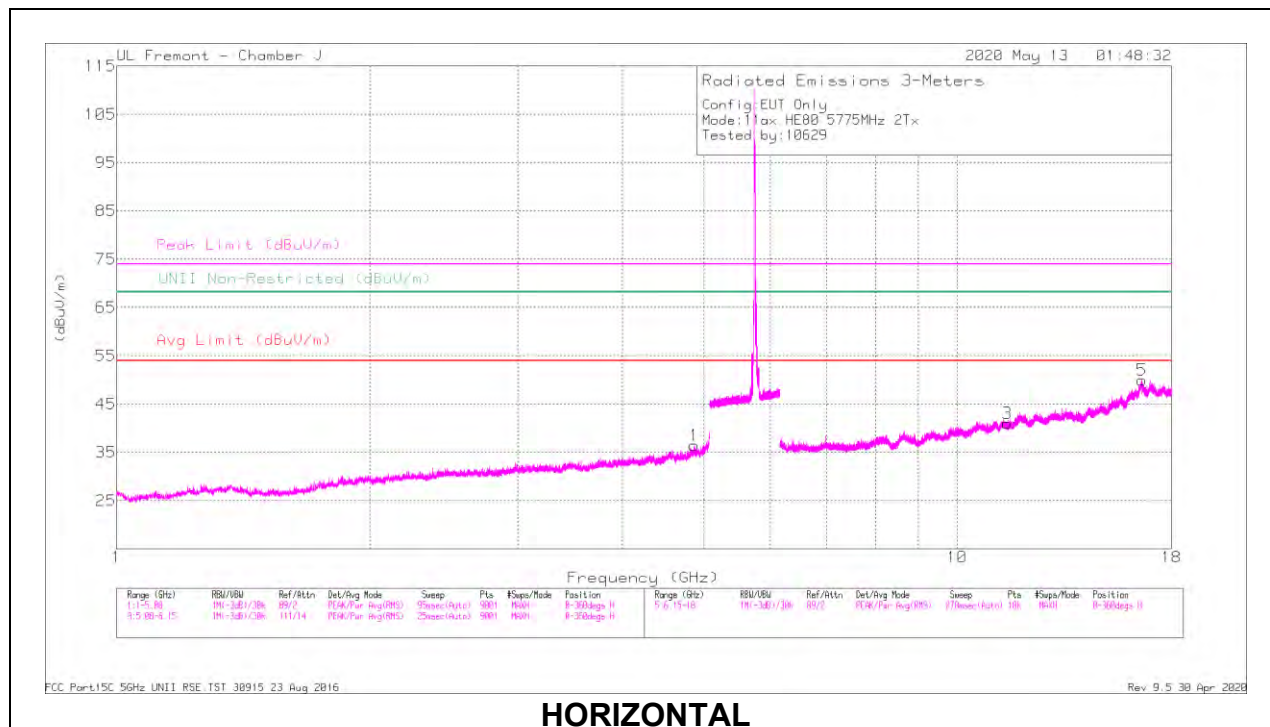
| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T712 (dB/m) | Amp/Cbl/Filtr/Pa d (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85001         | -61.43              | Pk  | 34.9           | -20.7                   | 11.8                   | -35.43                 | 26.99            | -62.42         | 108            | 224         | V        |
| 2      | 5.97917         | -65.26              | Pk  | 35.2           | -20.8                   | 11.8                   | -39.06                 | -27              | -12.06         | 108            | 224         | V        |

Pk - Peak detector

**2TX ANT 5 + ANT 6 OFDMA MODE – 26 Tones, RU Index 36**

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**

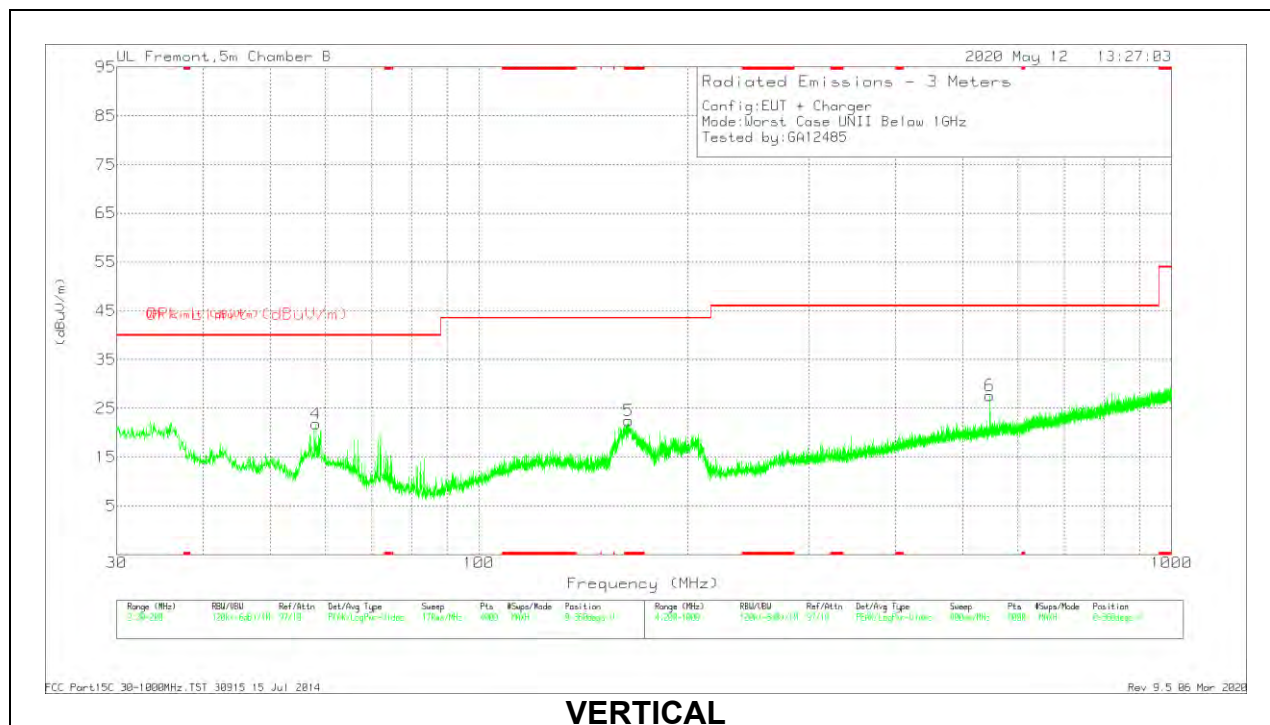
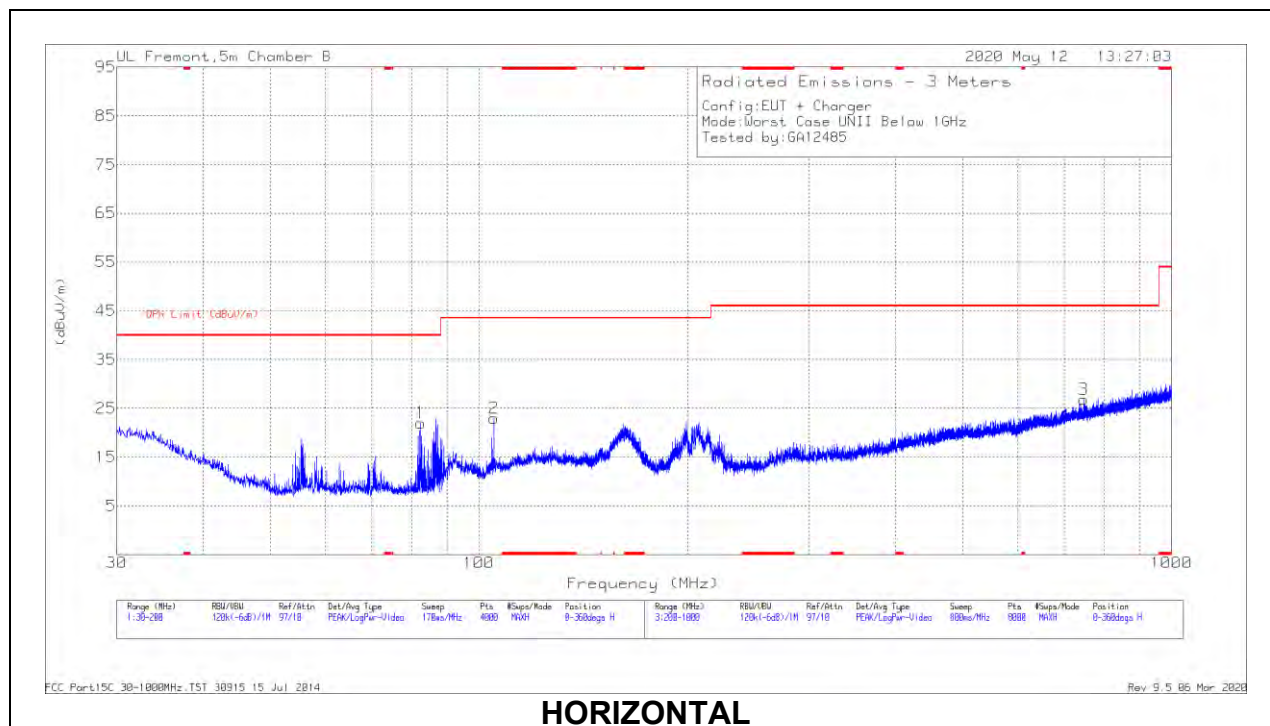


## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | AF T344 (dBm) | Amp/Cbl/Ftr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNI Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|----------------------|----------------------------|--------------------|-------------|---------------------|----------------|-----------------------------|----------------|----------------|-------------|----------|
| 1      | * 4.86853       | 39.94                | PK-U | 34.1          | -29.9                | 44.14                      | -                  | -           | 74                  | -29.86         | -                           | -              | 179            | 318         | H        |
|        | * 4.86493       | 29.26                | ADR  | 34.1          | -30                  | 33.36                      | 54                 | -20.64      | -                   | -              | -                           | -              | 179            | 318         | H        |
| 2      | * 4.87715       | 39.43                | PK-U | 34.2          | -29.7                | 43.93                      | -                  | -           | 74                  | -30.07         | -                           | -              | 97             | 103         | V        |
|        | * 4.87877       | 29.06                | ADR  | 34.1          | -29.7                | 33.46                      | 54                 | -20.54      | -                   | -              | -                           | -              | 97             | 103         | V        |
| 3      | * 11.47536      | 34.63                | PK-U | 38.1          | -23                  | 49.73                      | -                  | -           | 74                  | -24.27         | -                           | -              | 240            | 311         | H        |
|        | * 11.473        | 24.15                | ADR  | 38.1          | -23                  | 39.25                      | 54                 | -14.75      | -                   | -              | -                           | -              | 240            | 311         | H        |
| 5      | 16.59847        | 33.68                | PK-U | 42.2          | -19                  | 56.88                      | -                  | -           | -                   | -              | 68.2                        | -11.32         | 165            | 256         | H        |
|        | * 11.47694      | 33.91                | PK-U | 38.1          | -23                  | 49.01                      | -                  | -           | 74                  | -24.99         | -                           | -              | 267            | 214         | V        |
| 4      | * 11.47494      | 23.24                | ADR  | 38.1          | -23                  | 38.34                      | 54                 | -15.66      | -                   | -              | -                           | -              | 267            | 214         | V        |
| 6      | 16.58925        | 33.26                | PK-U | 42.1          | -18.9                | 56.46                      | -                  | -           | -                   | -              | 68.2                        | -11.74         | 63             | 121         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PK-U - U-NII: Maximum Peak  
ADR - U-NII AD primary method, RMS average

## 1.2. WORST CASE BELOW 1 GHz



**Below 1GHz DATA**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T408 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 5      | * 164.5048      | 36.73                | Pk  | 16.1           | -30.3        | 22.53                      | 43.52              | -20.99      | 0-360          | 101         | V        |
| 4      | 58.1848         | 41.68                | Pk  | 11.3           | -31.1        | 21.88                      | 40                 | -18.12      | 0-360          | 101         | V        |
| 1      | 82.331          | 41.52                | Pk  | 11.4           | -30.9        | 22.02                      | 40                 | -17.98      | 0-360          | 200         | H        |
| 2      | 105.1169        | 38.19                | Pk  | 15.5           | -30.7        | 22.99                      | 43.52              | -20.53      | 0-360          | 300         | H        |
| 6      | 546.9451        | 34.26                | Pk  | 22.1           | -28.8        | 27.56                      | 46.02              | -18.46      | 0-360          | 200         | V        |
| 3      | 746.7711        | 30.18                | Pk  | 24.6           | -28          | 26.78                      | 46.02              | -19.24      | 0-360          | 101         | H        |

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

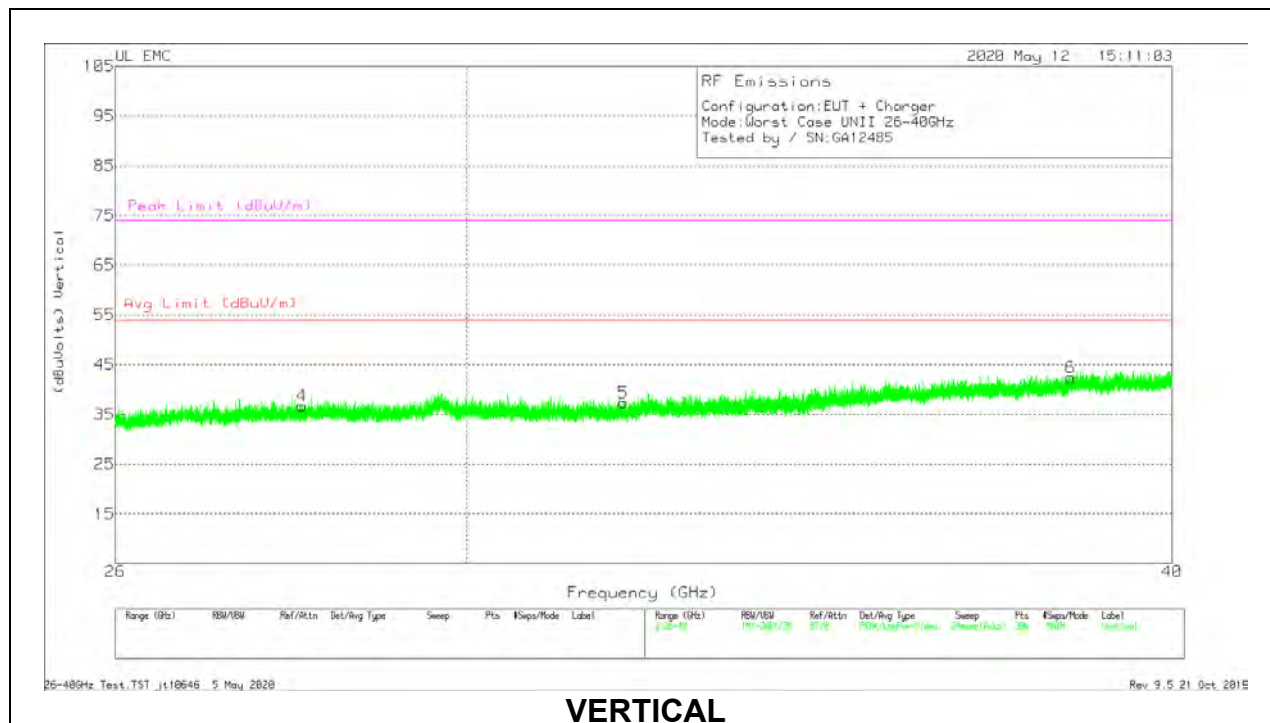
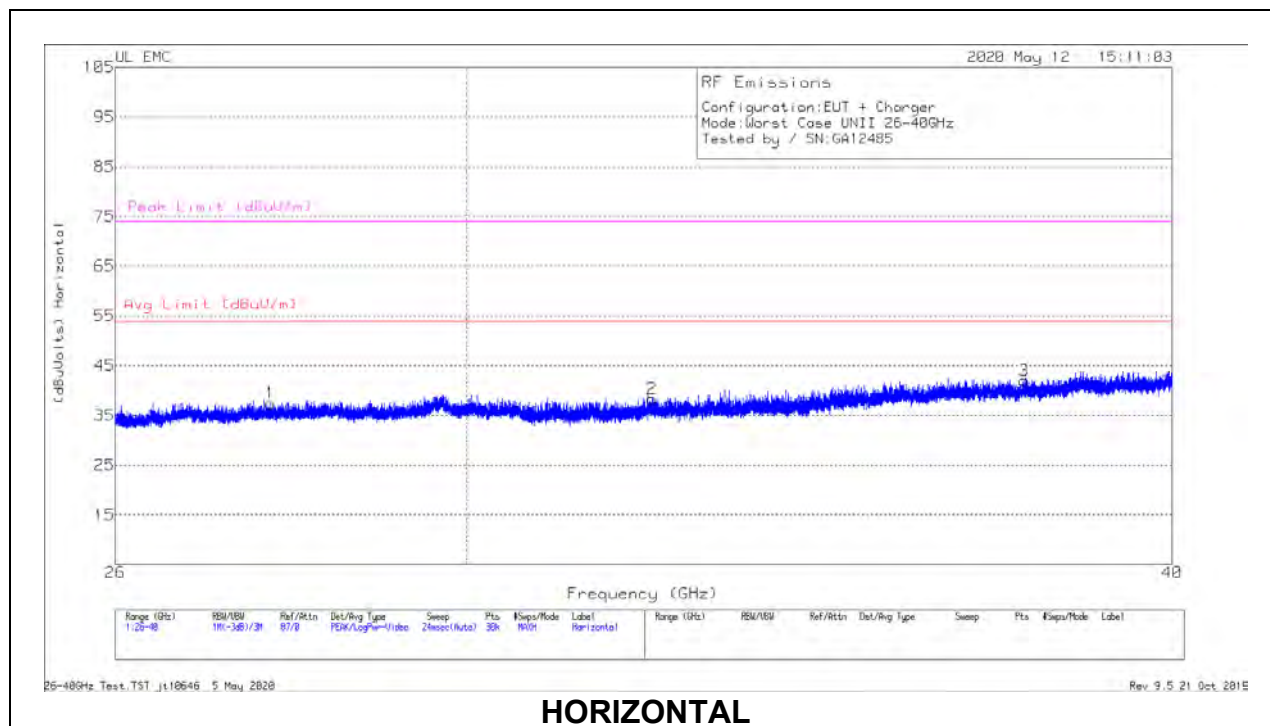


# **18 – 26GHz DATA**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | T125 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|----------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1      | 19.03894        | 35.99                | Pk  | 32.7           | -20.1        | -9.5           | 39.09                        | 54                 | -14.91      | 74                  | -34.91         |
| 2      | 21.76627        | 34.87                | Pk  | 33.2           | -20.8        | -9.5           | 37.77                        | 54                 | -16.23      | 74                  | -36.23         |
| 3      | 25.58403        | 36.21                | Pk  | 34.3           | -19.6        | -9.5           | 41.41                        | 54                 | -12.59      | 74                  | -32.59         |
| 4      | 19.35942        | 33.43                | Pk  | 32.6           | -18.8        | -9.5           | 37.73                        | 54                 | -16.27      | 74                  | -36.27         |
| 5      | 22.62871        | 33.44                | Pk  | 33.4           | -20.2        | -9.5           | 37.14                        | 54                 | -16.86      | 74                  | -36.86         |
| 6      | 25.09456        | 35.3                 | Pk  | 34.3           | -19.1        | -9.5           | 41                           | 54                 | -13         | 74                  | -33            |

Pk - Peak detector

## 1.4. WORST CASE 26-40 GHz



## 26 – 40GHz DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | PRE018220 3 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|--------|-----------------|----------------------|-----|-----------------------|--------------|----------------|------------------------------|--------------------|-------------|---------------------|----------------|
| 1      | 27.69389        | 40.39                | Pk  | 35.7                  | -29.2        | -9.5           | 37.39                        | 54                 | -16.61      | 74                  | -36.61         |
| 2      | 32.35698        | 38.87                | Pk  | 37.1                  | -28.1        | -9.5           | 38.37                        | 54                 | -15.63      | 74                  | -35.63         |
| 3      | 37.65797        | 39.12                | Pk  | 37.8                  | -25.4        | -9.5           | 42.02                        | 54                 | -11.98      | 74                  | -31.98         |
| 4      | 28.05413        | 38.83                | Pk  | 36.1                  | -28.7        | -9.5           | 36.73                        | 54                 | -17.27      | 74                  | -37.27         |
| 5      | 31.97947        | 37.93                | Pk  | 36.6                  | -27.7        | -9.5           | 37.33                        | 54                 | -16.67      | 74                  | -36.67         |
| 6      | 38.37239        | 38.59                | Pk  | 38.3                  | -25          | -9.5           | 42.39                        | 54                 | -11.61      | 74                  | -31.61         |

Pk - Peak detector

## 2. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

| Frequency of Emission (MHz) | Conducted Limit (dBµV) |            |
|-----------------------------|------------------------|------------|
|                             | 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.

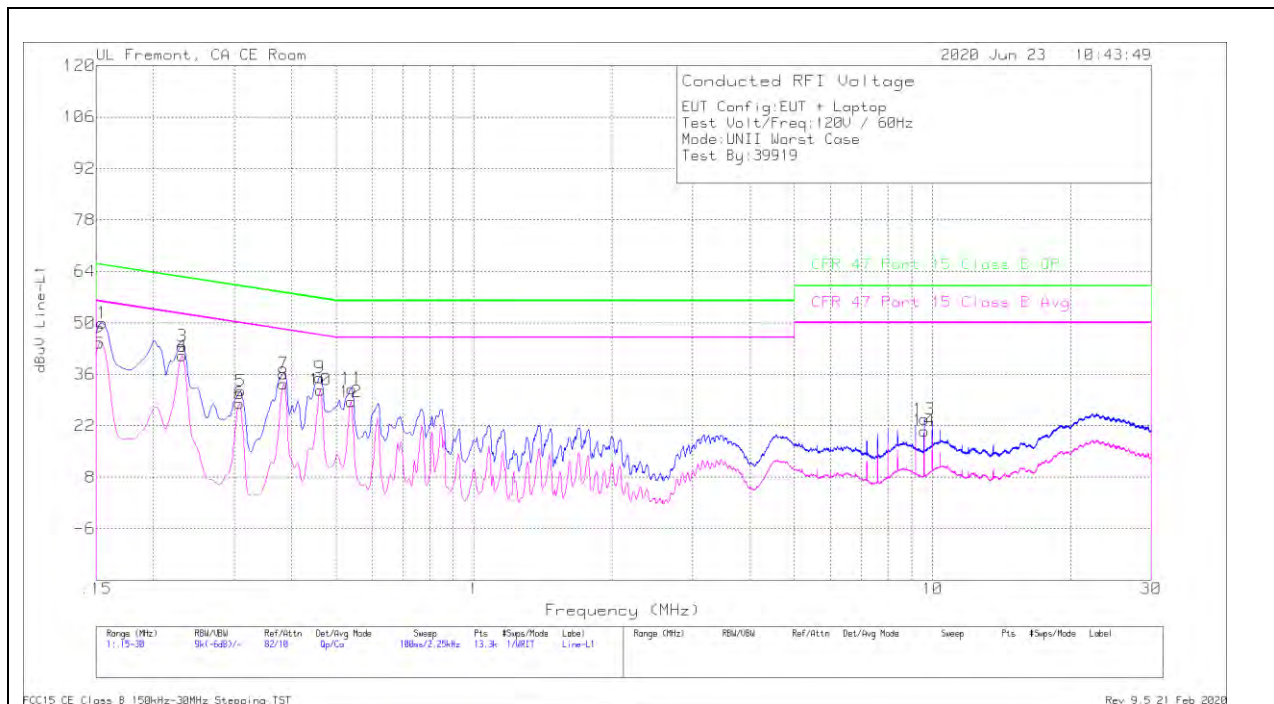
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

## 2.1. AC Power Line with Laptop

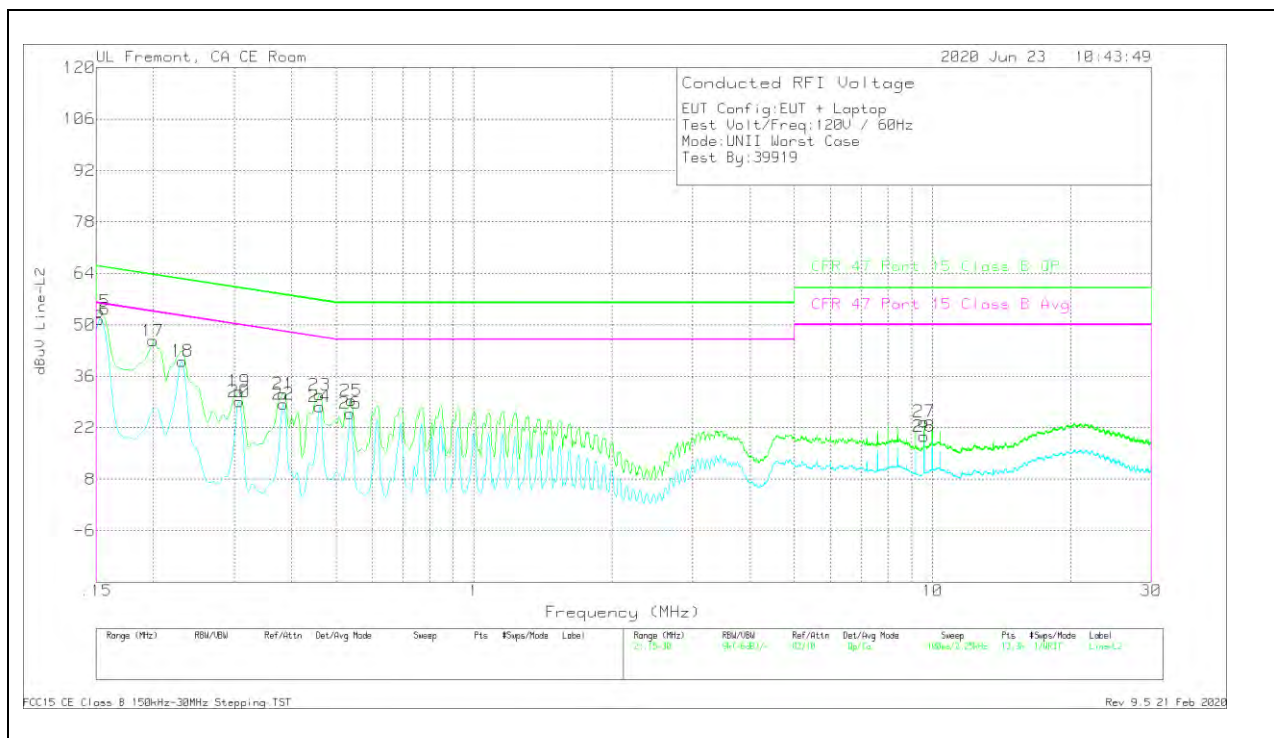
### LINE 1 RESULTS



| Range 1: Line-L1 15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|-----------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                      | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 1                           | .1545           | 39.87                | Qp  | .1                  | 0               | 10           | 49.97                  | 65.75                     | -15.78         | -                          | -                     |
| 2                           | .15225          | 34.52                | Ca  | .1                  | 0               | 10           | 44.62                  | -                         | -              | 55.88                      | -11.26                |
| 3                           | .231            | 33.66                | Qp  | 0                   | 0               | 10           | 43.66                  | 62.41                     | -18.75         | -                          | -                     |
| 4                           | .231            | 31.05                | Ca  | 0                   | 0               | 10           | 41.05                  | -                         | -              | 52.41                      | -11.36                |
| 5                           | .30975          | 21.45                | Qp  | 0                   | 0               | 10           | 31.45                  | 59.98                     | -28.53         | -                          | -                     |
| 6                           | .3075           | 18.08                | Ca  | 0                   | 0               | 10           | 28.08                  | -                         | -              | 50.04                      | -21.96                |
| 7                           | .384            | 26.12                | Qp  | 0                   | 0               | 10           | 36.12                  | 58.19                     | -22.07         | -                          | -                     |
| 8                           | .384            | 23.38                | Ca  | 0                   | 0               | 10           | 33.38                  | -                         | -              | 48.19                      | -14.81                |
| 9                           | .4605           | 25.12                | Qp  | 0                   | 0               | 10           | 35.12                  | 56.68                     | -21.56         | -                          | -                     |
| 10                          | .46275          | 21.74                | Ca  | 0                   | 0               | 10           | 31.74                  | -                         | -              | 46.64                      | -14.9                 |
| 11                          | .5415           | 22.05                | Qp  | 0                   | 0               | 10           | 32.05                  | 56                        | -23.95         | -                          | -                     |
| 12                          | .53925          | 18.57                | Ca  | 0                   | 0               | 10           | 28.57                  | -                         | -              | 46                         | -17.43                |
| 13                          | 9.58875         | 13.47                | Qp  | 0                   | .2              | 10.1         | 23.77                  | 60                        | -36.23         | -                          | -                     |
| 14                          | 9.58875         | 10.31                | Ca  | 0                   | .2              | 10.1         | 20.61                  | -                         | -              | 50                         | -29.39                |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

## LINE 2 RESULTS



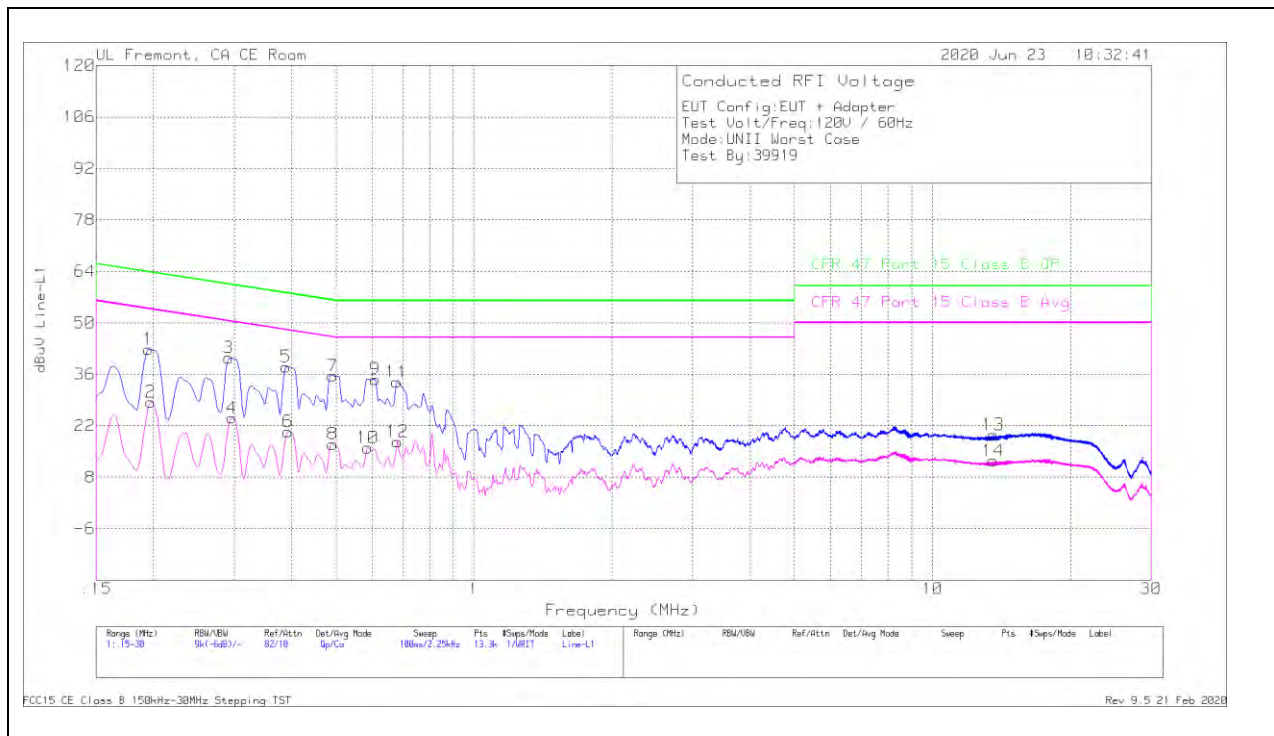
| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 15                           | .15225          | 43.64                | Qp  | 0                   | 0               | 10           | 53.64                  | 65.88                     | -12.24         | -                          | -                     |
| 16                           | .15225          | 41.53                | Ca  | 0                   | 0               | 10           | 51.53                  | -                         | -              | 55.88                      | -4.35                 |
| 17                           | .1995           | 35.67                | Qp  | 0                   | 0               | 10           | 45.67                  | 63.63                     | -17.96         | -                          | -                     |
| 18                           | .231            | 30.1                 | Ca  | 0                   | 0               | 10           | 40.1                   | -                         | -              | 52.41                      | -12.31                |
| 19                           | .3075           | 21.86                | Qp  | 0                   | 0               | 10           | 31.86                  | 60.04                     | -28.18         | -                          | -                     |
| 20                           | .3075           | 19.11                | Ca  | 0                   | 0               | 10           | 29.11                  | -                         | -              | 50.04                      | -20.93                |
| 21                           | .384            | 21.16                | Qp  | 0                   | 0               | 10           | 31.16                  | 58.19                     | -27.03         | -                          | -                     |
| 22                           | .384            | 18.44                | Ca  | 0                   | 0               | 10           | 28.44                  | -                         | -              | 48.19                      | -19.75                |
| 23                           | .4605           | 20.94                | Qp  | 0                   | 0               | 10           | 30.94                  | 56.68                     | -25.74         | -                          | -                     |
| 24                           | .4605           | 17.73                | Ca  | 0                   | 0               | 10           | 27.73                  | -                         | -              | 46.68                      | -18.95                |
| 25                           | .53925          | 19.42                | Qp  | 0                   | 0               | 10           | 29.42                  | 56                        | -26.58         | -                          | -                     |
| 26                           | .537            | 15.91                | Ca  | 0                   | 0               | 10           | 25.91                  | -                         | -              | 46                         | -20.09                |
| 27                           | 9.5865          | 13.33                | Qp  | 0                   | .2              | 10.1         | 23.63                  | 60                        | -36.37         | -                          | -                     |
| 28                           | 9.5865          | 9.37                 | Ca  | 0                   | .2              | 10.1         | 19.67                  | -                         | -              | 50                         | -30.33                |

Qp - Quasi-Peak detector

Ca - CISPR average detection

## 2.2. AC Power Line with AC Adapter

### LINE 1 RESULTS

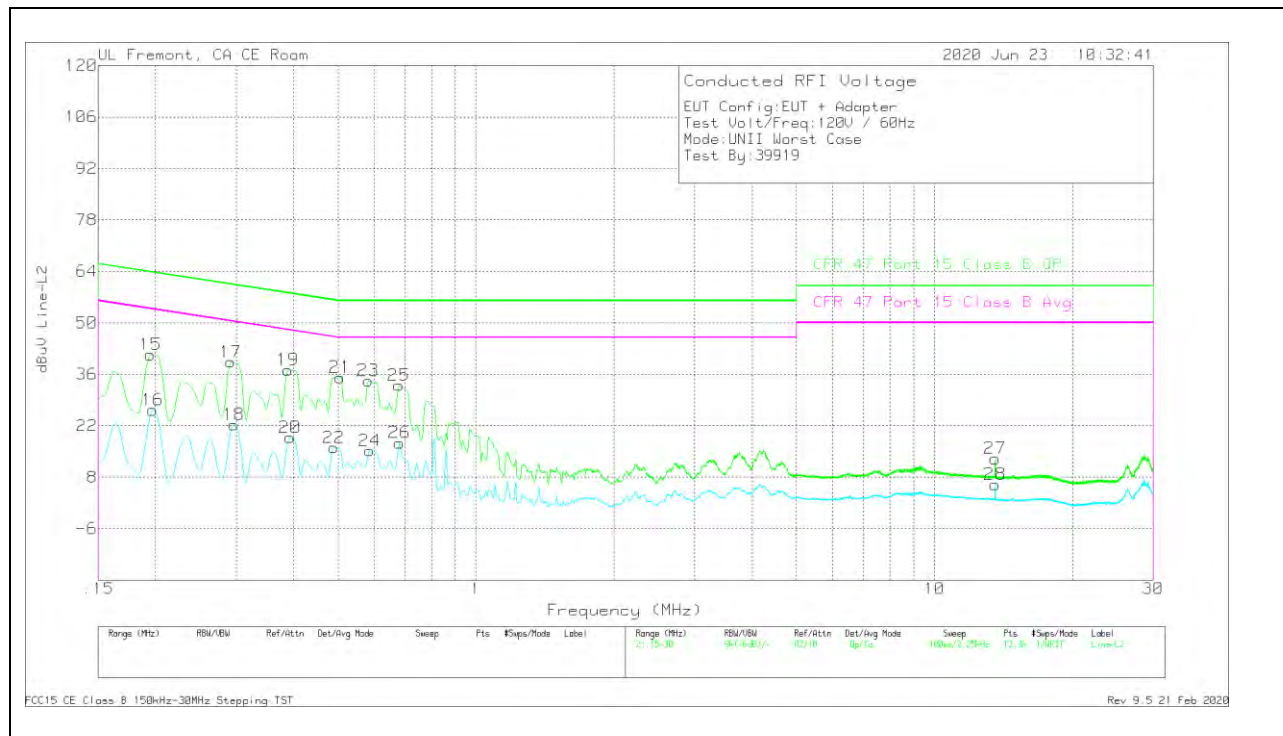


| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 1                            | .195            | 32.79                | Qp  | 0                   | 0               | 10           | 42.79                  | 63.82                     | -21.03         | -                          | -                    |
| 2                            | .19725          | 18.47                | Ca  | 0                   | 0               | 10           | 28.47                  | -                         | -              | 53.73                      | -25.26               |
| 3                            | .29175          | 30.48                | Qp  | 0                   | 0               | 10           | 40.48                  | 60.47                     | -19.99         | -                          | -                    |
| 4                            | .29625          | 14.11                | Ca  | 0                   | 0               | 10           | 24.11                  | -                         | -              | 50.35                      | -26.24               |
| 5                            | .3885           | 28.04                | Qp  | 0                   | 0               | 10           | 38.04                  | 58.1                      | -20.06         | -                          | -                    |
| 6                            | .393            | 10.43                | Ca  | 0                   | 0               | 10           | 20.43                  | -                         | -              | 48                         | -27.57               |
| 7                            | .492            | 25.57                | Qp  | 0                   | 0               | 10           | 35.57                  | 56.13                     | -20.56         | -                          | -                    |
| 8                            | .492            | 7.02                 | Ca  | 0                   | 0               | 10           | 17.02                  | -                         | -              | 46.13                      | -29.11               |
| 9                            | .609            | 24.65                | Qp  | 0                   | 0               | 10           | 34.65                  | 56                        | -21.35         | -                          | -                    |
| 10                           | .5865           | 6.01                 | Ca  | 0                   | 0               | 10           | 16.01                  | -                         | -              | 46                         | -29.99               |
| 11                           | .67875          | 23.88                | Qp  | 0                   | 0               | 10           | 33.88                  | 56                        | -22.12         | -                          | -                    |
| 12                           | .681            | 7.63                 | Ca  | 0                   | 0               | 10           | 17.63                  | -                         | -              | 46                         | -28.37               |
| *13                          | 13.56113        | 9.12                 | Qp  | .1                  | .2              | 10.1         | 19.52                  | 60                        | -40.48         | -                          | -                    |
| *14                          | 13.56           | 2.09                 | Ca  | .1                  | .2              | 10.1         | 12.49                  | -                         | -              | 50                         | -37.51               |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

\*Indicates UL RFID Signal. Not from device.

## LINE 2 RESULTS



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |                     |                 |              |                        |                           |                |                            |                       |
|------------------------------|-----------------|----------------------|-----|---------------------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|-----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | PRE018644 6 LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)M argin (dB) |
| 15                           | .195            | 31.35                | Qp  | 0                   | 0               | 10           | 41.35                  | 63.82                     | -22.47         | -                          | -                     |
| 16                           | .19725          | 16.28                | Ca  | 0                   | 0               | 10           | 26.28                  | -                         | -              | 53.73                      | -27.45                |
| 17                           | .29175          | 29.33                | Qp  | 0                   | 0               | 10           | 39.33                  | 60.47                     | -21.14         | -                          | -                     |
| 18                           | .29625          | 12.28                | Ca  | 0                   | 0               | 10           | 22.28                  | -                         | -              | 50.35                      | -28.07                |
| 19                           | .3885           | 27.18                | Qp  | 0                   | 0               | 10           | 37.18                  | 58.1                      | -20.92         | -                          | -                     |
| 20                           | .393            | 8.8                  | Ca  | 0                   | 0               | 10           | 18.8                   | -                         | -              | 48                         | -29.2                 |
| 21                           | .5055           | 25.14                | Qp  | 0                   | 0               | 10           | 35.14                  | 56                        | -20.86         | -                          | -                     |
| 22                           | .48975          | 6.07                 | Ca  | 0                   | 0               | 10           | 16.07                  | -                         | -              | 46.17                      | -30.1                 |
| 23                           | .582            | 24.28                | Qp  | 0                   | 0               | 10           | 34.28                  | 56                        | -21.72         | -                          | -                     |
| 24                           | .5865           | 5.23                 | Ca  | 0                   | 0               | 10           | 15.23                  | -                         | -              | 46                         | -30.77                |
| 25                           | .67875          | 23.03                | Qp  | 0                   | 0               | 10           | 33.03                  | 56                        | -22.97         | -                          | -                     |
| 26                           | .681            | 7.35                 | Ca  | 0                   | 0               | 10           | 17.35                  | -                         | -              | 46                         | -28.65                |
| *27                          | 13.56           | 2.72                 | Qp  | .1                  | .2              | 10.1         | 13.12                  | 60                        | -46.88         | -                          | -                     |
| *28                          | 13.56           | -4.36                | Ca  | .1                  | .2              | 10.1         | 6.04                   | -                         | -              | 50                         | -43.96                |

Qp - Quasi-Peak detector  
Ca - CISPR average detection

\*Indicates UL RFID Signal. Not from device.

### **3. SETUP PHOTOS**

Please refer to 13179110-EP1V1 for setup photos

**END OF TEST REPORT**