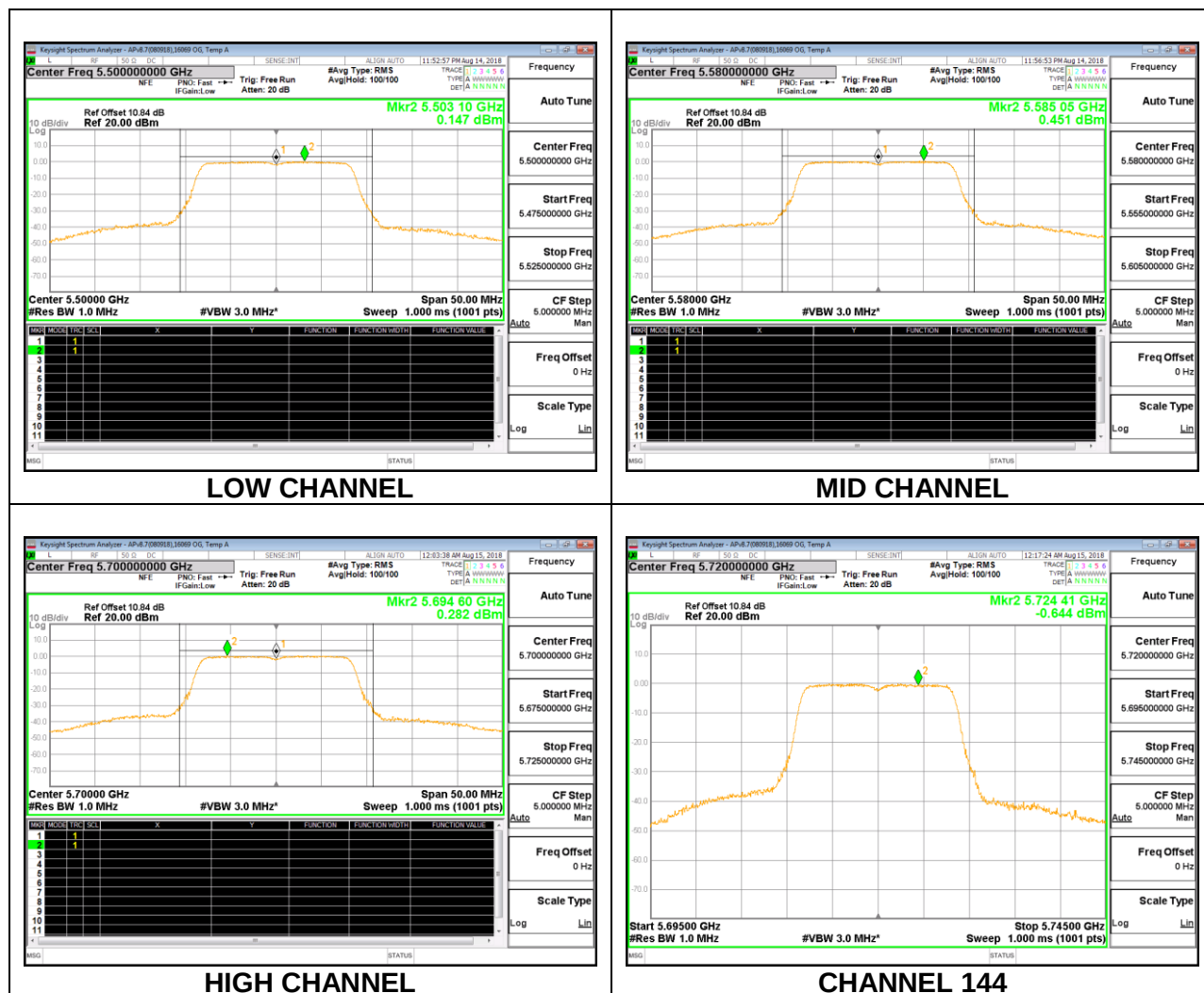




**8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND**

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5500               | 31.5                        | 4.86                         | 24.00                   | 11.00                          |
| Mid     | 5580               | 30.2                        | 4.86                         | 24.00                   | 11.00                          |
| High    | 5700               | 30.75                       | 4.86                         | 24.00                   | 11.00                          |
| 144     | 5720               | 30.10                       | 4.86                         | 24.00                   | 11.00                          |

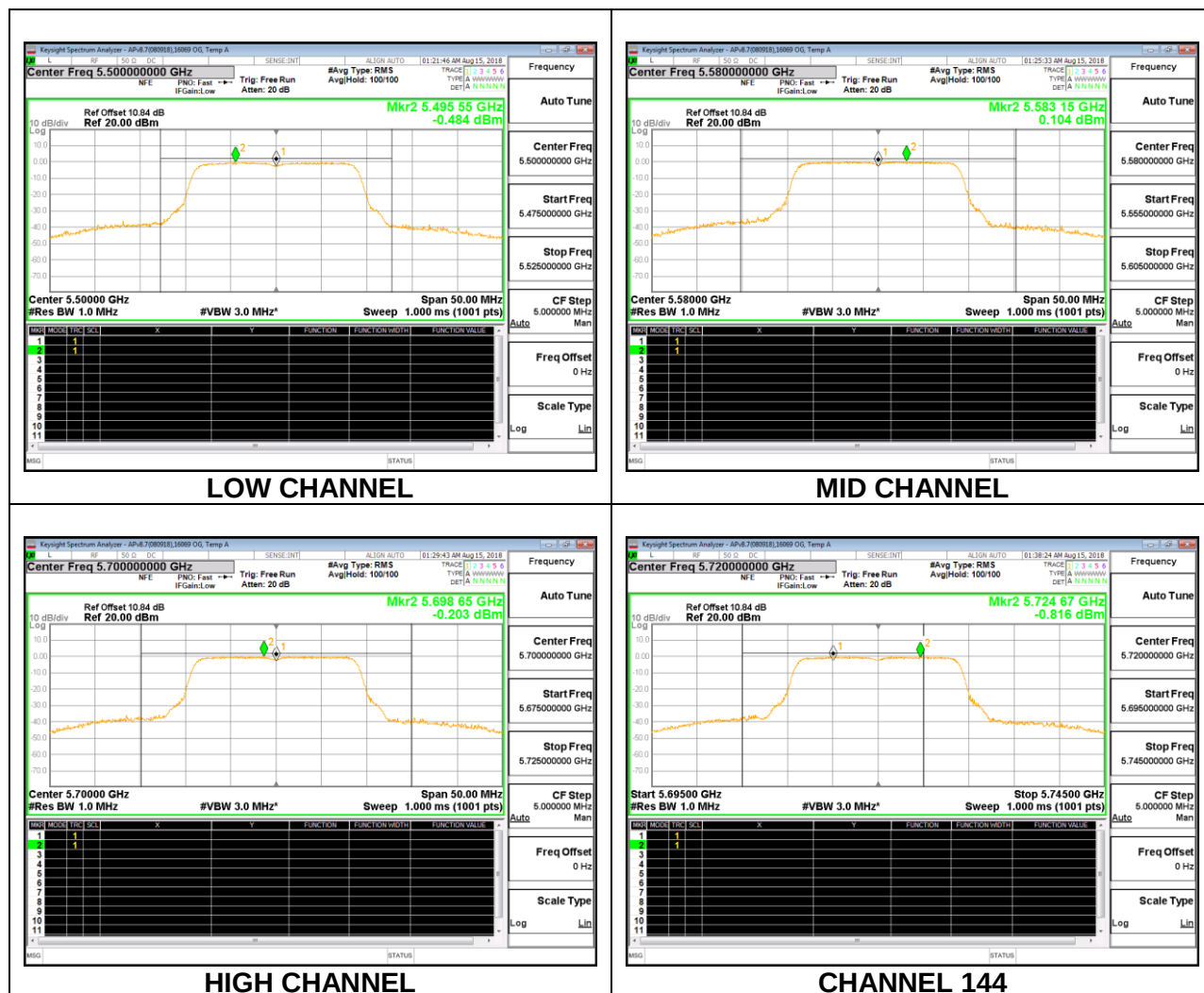
|                           |      |                                                           |
|---------------------------|------|-----------------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.24 | <b>Included in Calculations of Corr'd Power &amp; PSD</b> |
|---------------------------|------|-----------------------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5500               | 12.10                  | 12.10                             | 24.00                   | -11.90                  |
| Mid     | 5580               | 11.75                  | 11.75                             | 24.00                   | -12.25                  |
| High    | 5700               | 10.60                  | 10.60                             | 24.00                   | -13.40                  |
| 144     | 5720               | 12.24                  | 12.24                             | 24.00                   | -11.76                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Low     | 5500               | -0.484                        | -0.24                                    | 11.00                          | -11.24                |
| Mid     | 5580               | 0.104                         | 0.34                                     | 11.00                          | -10.66                |
| High    | 5700               | -0.203                        | 0.04                                     | 11.00                          | -10.96                |
| 144     | 5720               | -0.816                        | -0.58                                    | 11.00                          | -11.58                |



**8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND**

**Bandwidth, Antenna Gain, and Limits**

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5510               | 61.8                        | 4.86                         | 24.00                   | 11.00                          |
| Mid     | 5550               | 61.2                        | 4.86                         | 24.00                   | 11.00                          |
| High    | 5670               | 60.8                        | 4.86                         | 24.00                   | 11.00                          |
| 142     | 5710               | 44.2                        | 4.86                         | 24.00                   | 11.00                          |

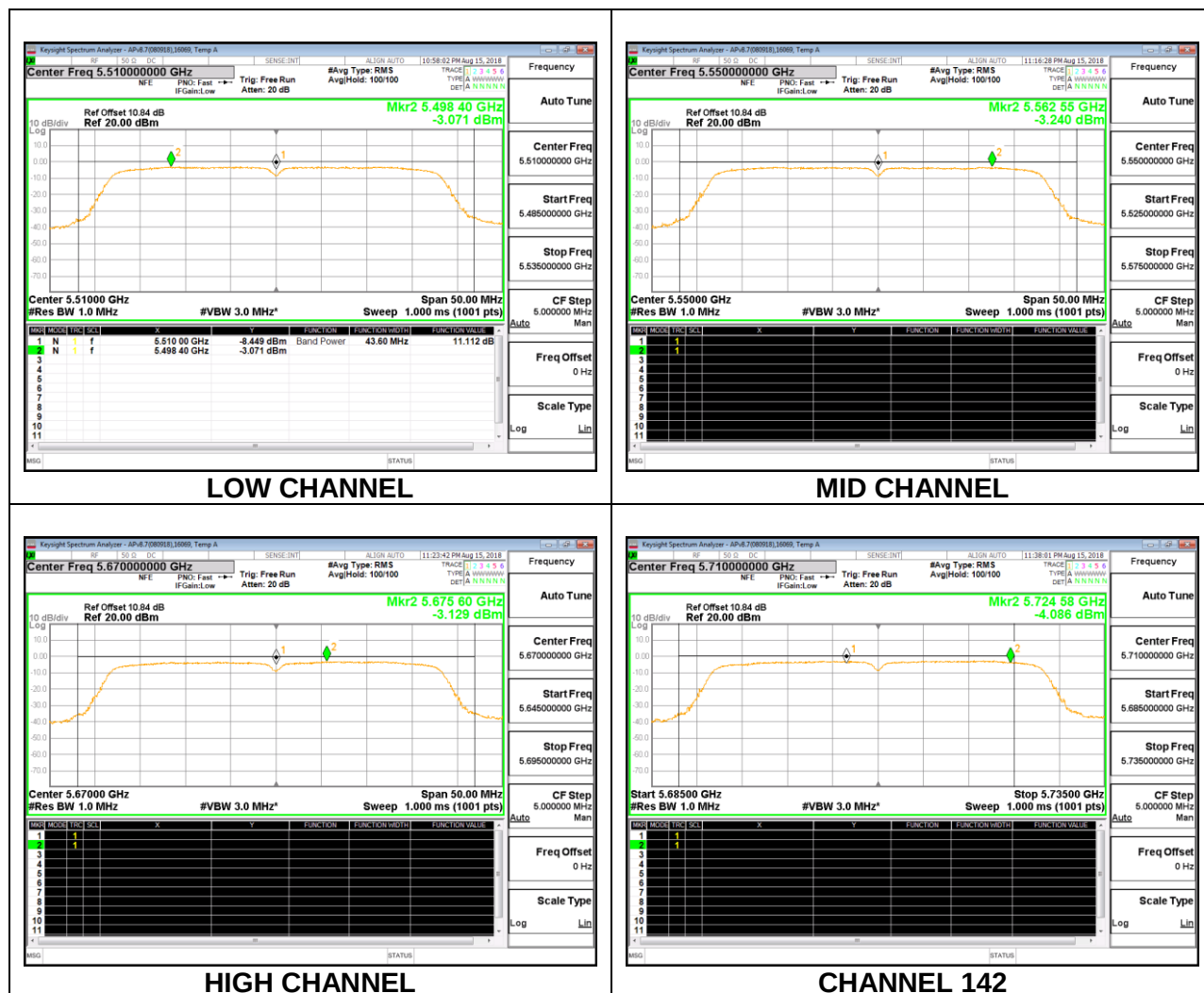
|                           |      |                                                           |
|---------------------------|------|-----------------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.58 | <b>Included in Calculations of Corr'd Power &amp; PSD</b> |
|---------------------------|------|-----------------------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5510               | 7.88                   | 7.88                              | 24.00                   | -16.12                  |
| Mid     | 5550               | 12.38                  | 12.38                             | 24.00                   | -11.62                  |
| High    | 5670               | 12.34                  | 12.34                             | 24.00                   | -11.66                  |
| 142     | 5710               | 12.61                  | 12.61                             | 24.00                   | -11.39                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Low     | 5510               | -3.071                        | -2.49                                    | 11.00                          | -13.49                |
| Mid     | 5550               | -3.240                        | -2.66                                    | 11.00                          | -13.66                |
| High    | 5670               | -3.129                        | -2.55                                    | 11.00                          | -13.55                |
| 142     | 5710               | -4.086                        | -3.51                                    | 11.00                          | -14.51                |



## 8.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

### Bandwidth, Antenna Gain, and Limits

| Channel | Frequency<br>(MHz) | Min<br>26 dB<br>BW<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|-----------------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5530               | 114.2                       | 4.86                         | 24.00                   | 11.00                          |
| High    | 5610               | 114.4                       | 4.86                         | 24.00                   | 11.00                          |
| 138     | 5690               | 114.2                       | 4.86                         | 24.00                   | 11.00                          |

|                    |      |                                                |
|--------------------|------|------------------------------------------------|
| Duty Cycle CF (dB) | 1.28 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|------------------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5530               | 3.68                   | 3.68                              | 24.00                   | -20.32                  |
| High    | 5610               | 8.47                   | 8.47                              | 24.00                   | -15.53                  |
| 138     | 5690               | 9.63                   | 9.63                              | 24.00                   | -14.37                  |

### PSD Results

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Low     | 5530               | -7.552                        | -6.27                                    | 11.00                          | -17.27                |
| High    | 5610               | -6.956                        | -5.68                                    | 11.00                          | -16.68                |
| 138     | 5690               | -8.659                        | -7.38                                    | 11.00                          | -18.38                |



## 8.5.13. 802.11a MODE IN THE 5.8 GHz BAND

### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5745               | 6.07                         | 29.93                   | 29.93                          |
| Mid     | 5785               | 6.07                         | 29.93                   | 29.93                          |
| High    | 5825               | 6.07                         | 29.93                   | 29.93                          |

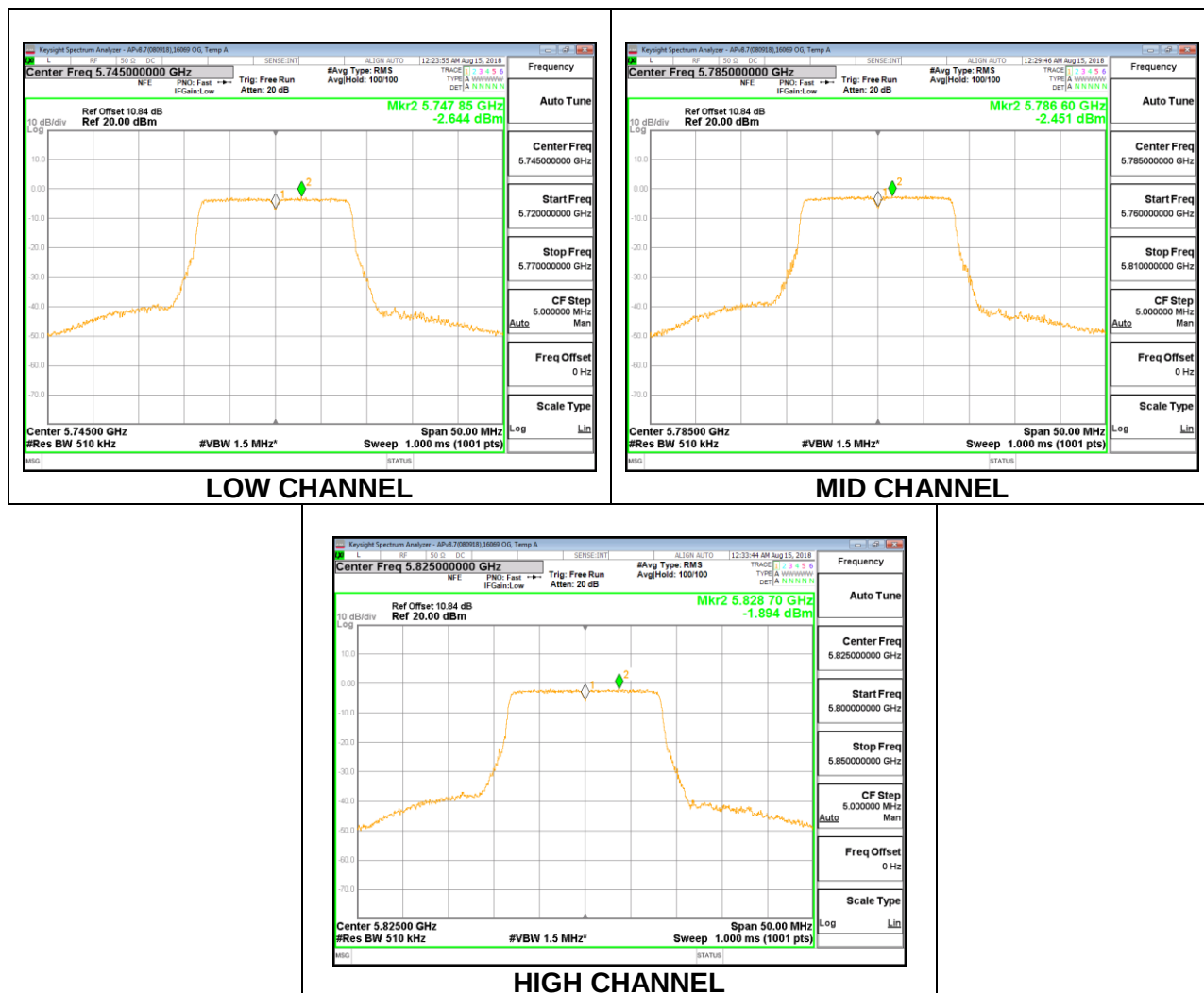
|                    |      |                                                |
|--------------------|------|------------------------------------------------|
| Duty Cycle CF (dB) | 0.23 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|------------------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 12.41                  | 12.41                             | 29.93                   | -17.52                  |
| Mid     | 5785               | 12.18                  | 12.18                             | 29.93                   | -17.75                  |
| High    | 5825               | 12.13                  | 12.13                             | 29.93                   | -17.80                  |

### PSD Results

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Low     | 5745               | -2.644                        | -2.414                                   | 29.93                          | -32.34                |
| Mid     | 5785               | -2.451                        | -2.221                                   | 29.93                          | -32.15                |
| High    | 5825               | -1.894                        | -1.664                                   | 29.93                          | -31.59                |



## 8.5.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

### Antenna Gain and Limit

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5745               | 6.07                         | 29.93                   | 29.93                          |
| Mid     | 5785               | 6.07                         | 29.93                   | 29.93                          |
| High    | 5825               | 6.07                         | 29.93                   | 29.93                          |

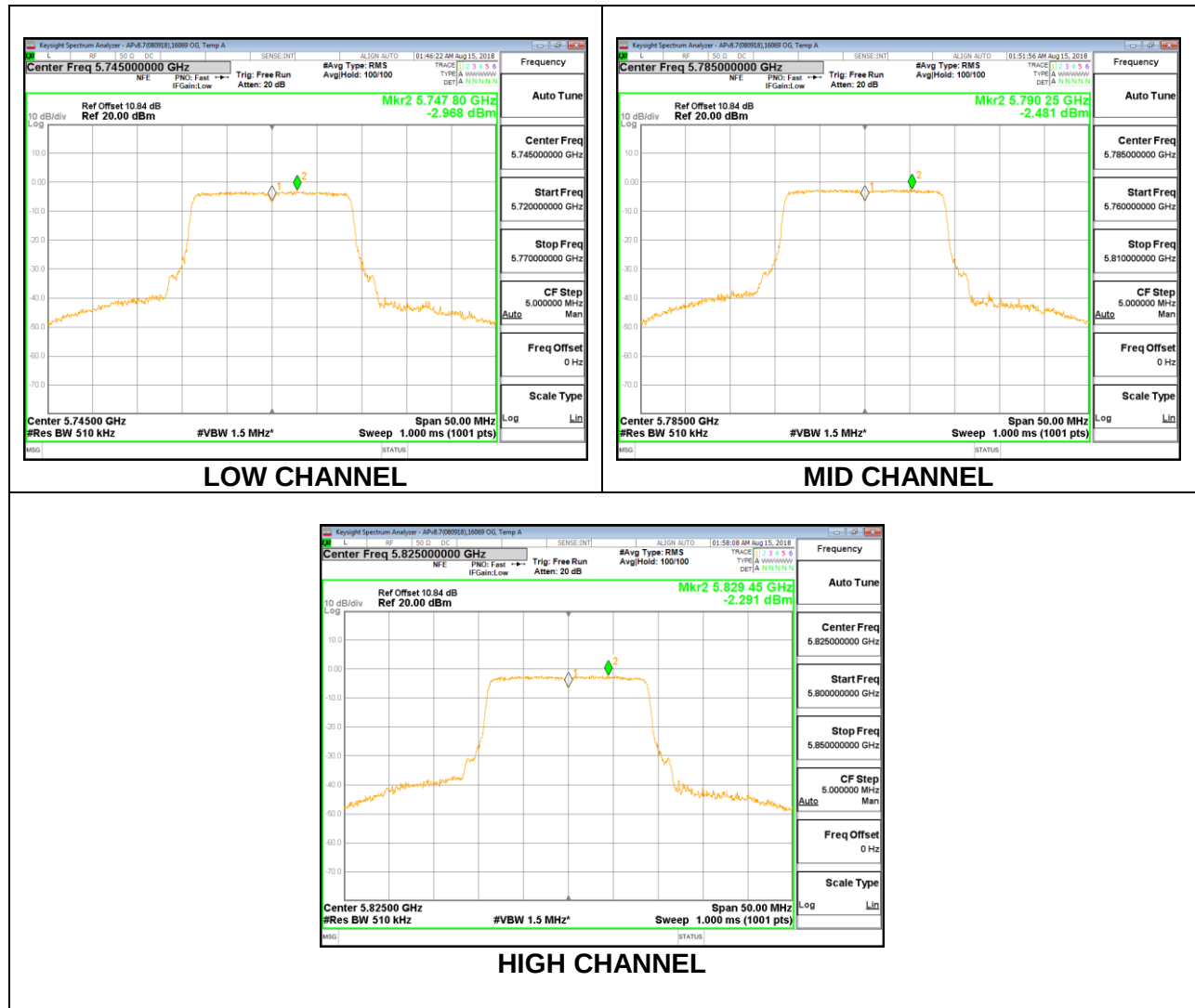
|                    |      |                                                |
|--------------------|------|------------------------------------------------|
| Duty Cycle CF (dB) | 0.24 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|------------------------------------------------|

### Output Power Results

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5745               | 11.44                  | 11.44                             | 29.93                   | -18.49                  |
| Mid     | 5785               | 11.21                  | 11.21                             | 29.93                   | -18.72                  |
| High    | 5825               | 12.10                  | 12.10                             | 29.93                   | -17.83                  |

### PSD Results

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Low     | 5745               | -2.968                        | -2.728                                   | 29.93                          | -32.66                |
| Mid     | 5785               | -2.481                        | -2.241                                   | 29.93                          | -32.17                |
| High    | 5825               | -2.291                        | -2.051                                   | 29.93                          | -31.98                |



**8.5.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND**

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Low     | 5755               | 6.07                         | 29.93                   | 29.93                          |
| High    | 5795               | 6.07                         | 29.93                   | 29.93                          |

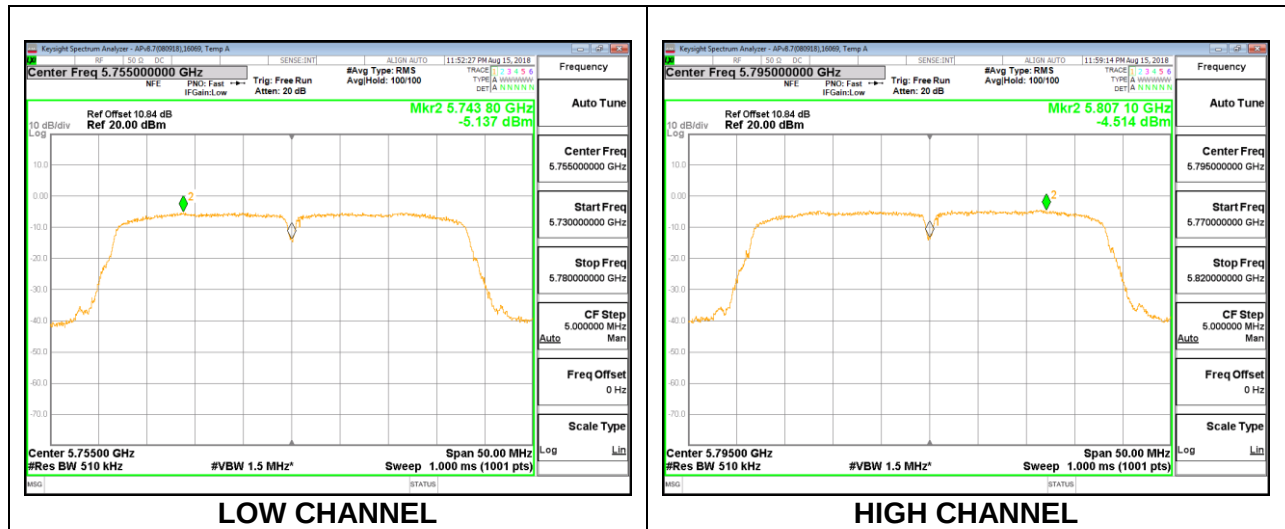
|                           |      |                                                           |
|---------------------------|------|-----------------------------------------------------------|
| <b>Duty Cycle CF (dB)</b> | 0.58 | <b>Included in Calculations of Corr'd Power &amp; PSD</b> |
|---------------------------|------|-----------------------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Low     | 5755               | 12.71                  | 12.71                             | 29.93                   | -17.22                  |
| High    | 5795               | 12.70                  | 12.70                             | 29.93                   | -17.23                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm) | Total<br>Corr'd<br>PSD<br>(dBm) | PSD<br>Limit<br>(dBm) | PSD<br>Margin<br>(dB) |
|---------|--------------------|----------------------|---------------------------------|-----------------------|-----------------------|
| Low     | 5755               | -5.137               | -4.557                          | 29.93                 | -34.49                |
| High    | 5795               | -4.514               | -3.934                          | 29.93                 | -33.86                |



**8.5.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND**

**Antenna Gain and Limit**

| Channel | Frequency<br>(MHz) | Directional<br>Gain<br>(dBi) | Power<br>Limit<br>(dBm) | PSD<br>Limit<br>(dBm/<br>1MHz) |
|---------|--------------------|------------------------------|-------------------------|--------------------------------|
| Mid     | 5775               | 6.07                         | 29.93                   | 29.93                          |

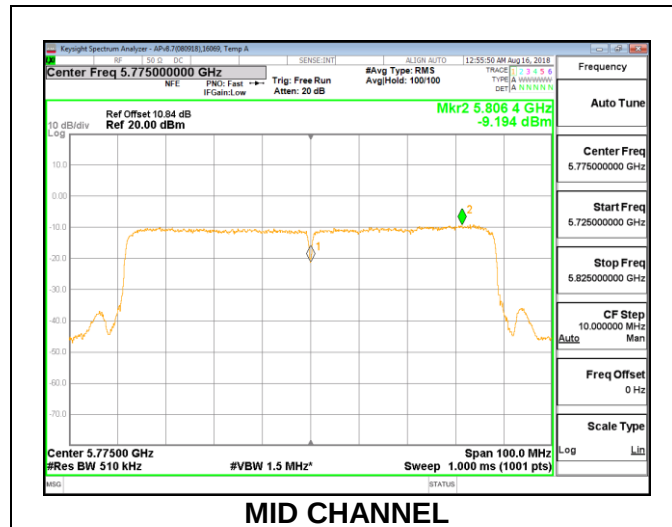
|                    |      |                                                |
|--------------------|------|------------------------------------------------|
| Duty Cycle CF (dB) | 1.28 | Included in Calculations of Corr'd Power & PSD |
|--------------------|------|------------------------------------------------|

**Output Power Results**

| Channel | Frequency<br>(MHz) | Meas<br>Power<br>(dBm) | Total<br>Corr'd<br>Power<br>(dBm) | Power<br>Limit<br>(dBm) | Power<br>Margin<br>(dB) |
|---------|--------------------|------------------------|-----------------------------------|-------------------------|-------------------------|
| Mid     | 5775               | 12.22                  | 12.22                             | 29.93                   | -17.71                  |

**PSD Results**

| Channel | Frequency<br>(MHz) | Meas<br>PSD<br>(dBm/<br>1MHz) | Total<br>Corr'd<br>PSD<br>(dBm/<br>1MHz) | PSD<br>Limit<br>(dBm/<br>1MHz) | PSD<br>Margin<br>(dB) |
|---------|--------------------|-------------------------------|------------------------------------------|--------------------------------|-----------------------|
| Mid     | 5775               | -9.194                        | -7.914                                   | 29.93                          | -37.84                |



## 9. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

### After January 01, 2019 for Outside of the Restricted Bands Emissions

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

NCC LP0002 §2.7 and §2.8

| Frequency Range<br>(MHz) | Field Strength Limit<br>(uV/m) at 3 m | Field Strength Limit<br>(dBuV/m) at 3 m |
|--------------------------|---------------------------------------|-----------------------------------------|
| 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 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

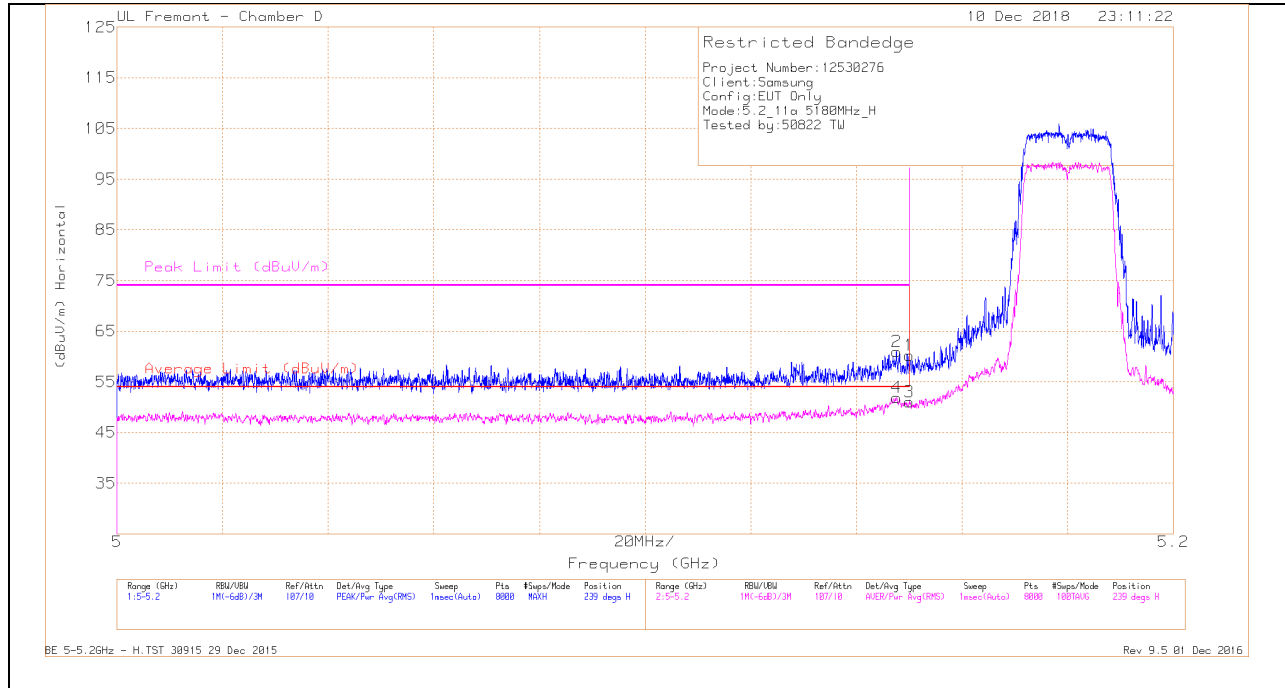
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

## 9.1. TRANSMITTER ABOVE 1 GHz

### 9.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

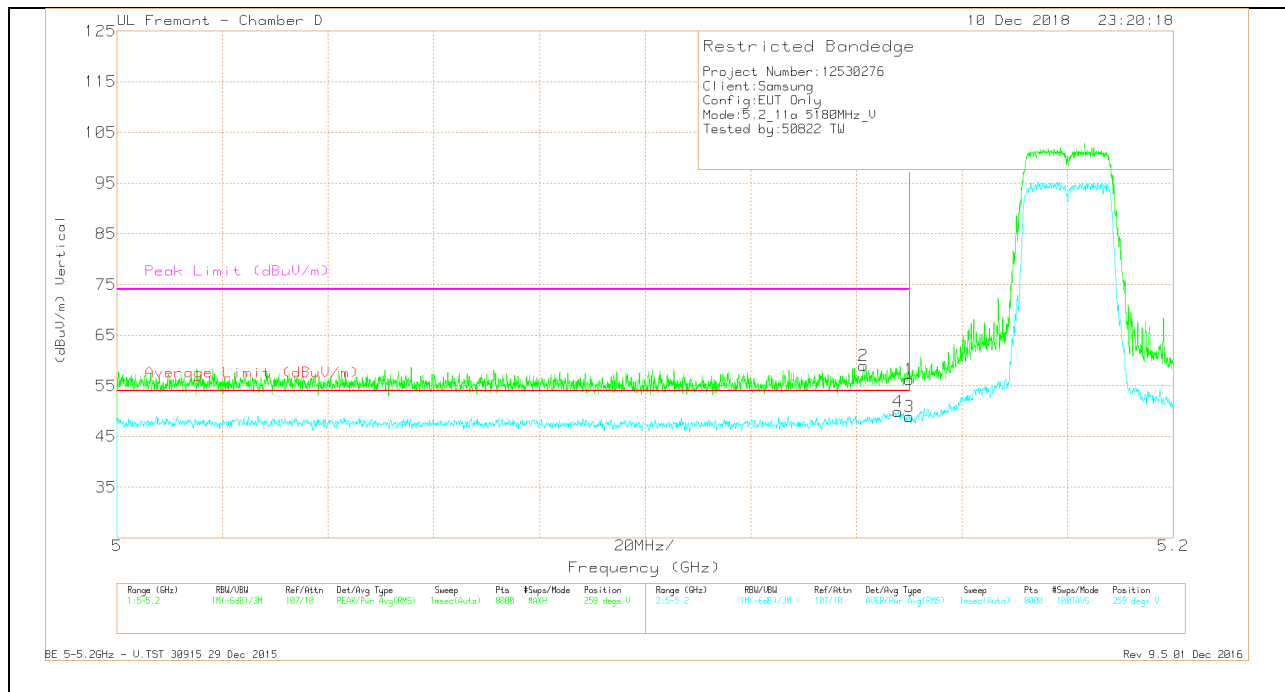
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.15          | 43.38                | Pk  | 34.4           | -17.5                | 0            | 60.28                      | -                      | -           | 74                  | -13.72         | 239             | 109         | H        |
| 2      | * 5.148         | 44.04                | Pk  | 34.4           | -17.5                | 0            | 60.94                      | -                      | -           | 74                  | -13.06         | 239             | 109         | H        |
| 3      | * 5.15          | 33.84                | RMS | 34.4           | -17.5                | 0.23         | 50.97                      | 54                     | -3.03       | -                   | -              | 239             | 109         | H        |
| 4      | * 5.148         | 34.76                | RMS | 34.4           | -17.5                | 0.23         | 51.89                      | 54                     | -2.11       | -                   | -              | 239             | 109         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/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 |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2      | * 5.141         | 42.07                | Pk  | 34.4           | -17.5               | 0            | 58.97                      | -                      | -           | 74                  | -15.03         | 259            | 203         | V        |
| 4      | * 5.148         | 32.78                | RMS | 34.4           | -17.5               | .23          | 49.91                      | 54                     | -4.09       | -                   | -              | 259            | 203         | V        |
| 1      | * 5.15          | 39.35                | PK  | 34.4           | -17.5               | 0            | 56.25                      | -                      | -           | 74                  | -17.75         | 259            | 203         | V        |
| 3      | * 5.15          | 31.76                | RMS | 34.4           | -17.5               | .23          | 48.89                      | 54                     | -5.11       | -                   | -              | 259            | 203         | V        |

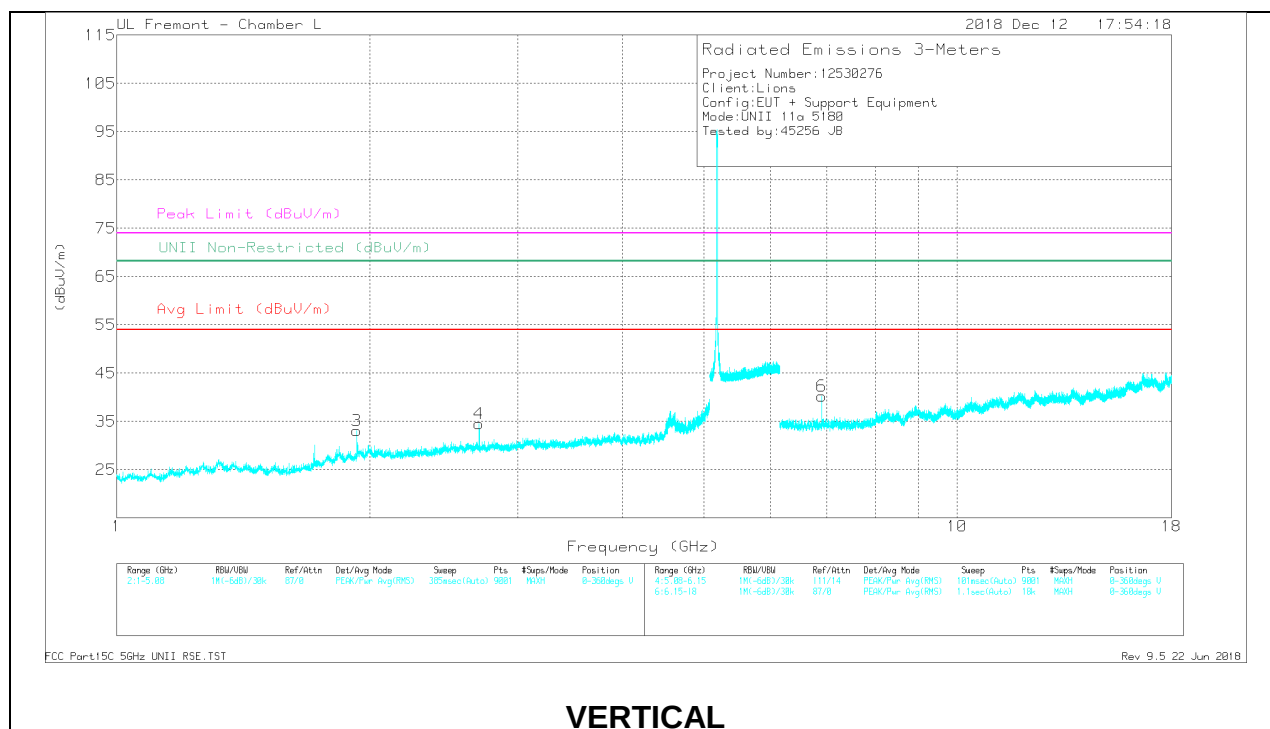
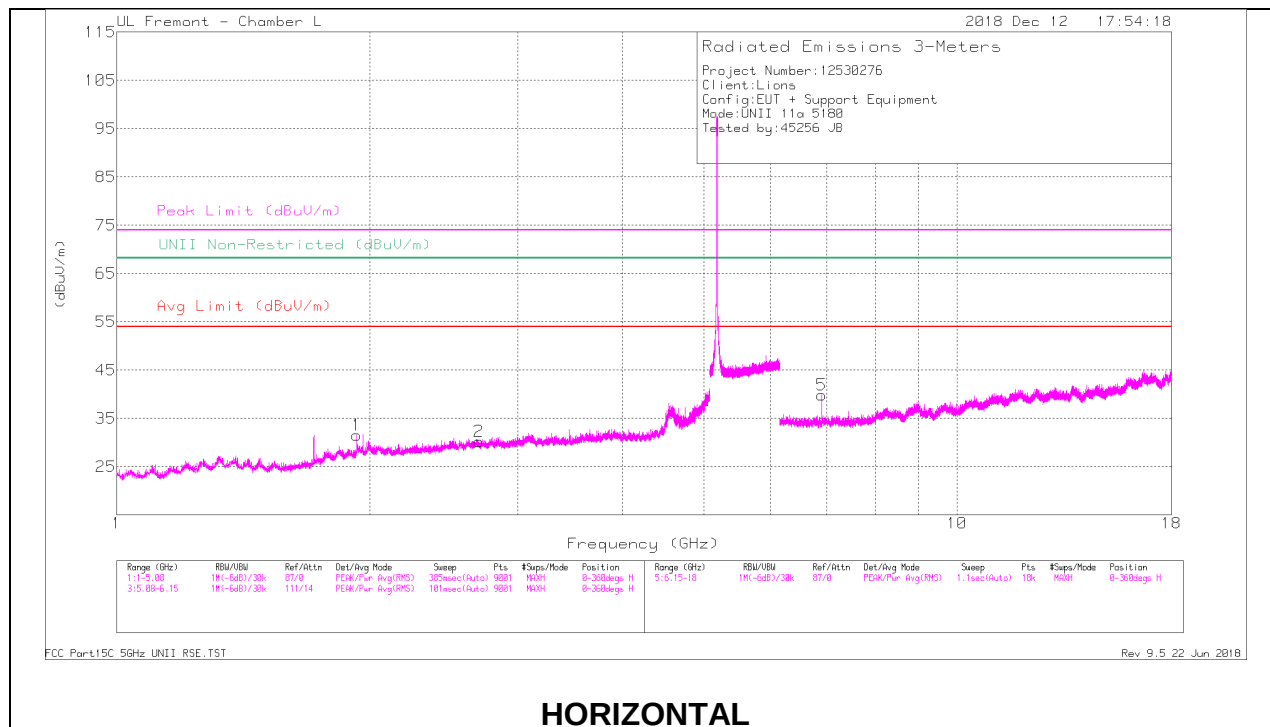
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

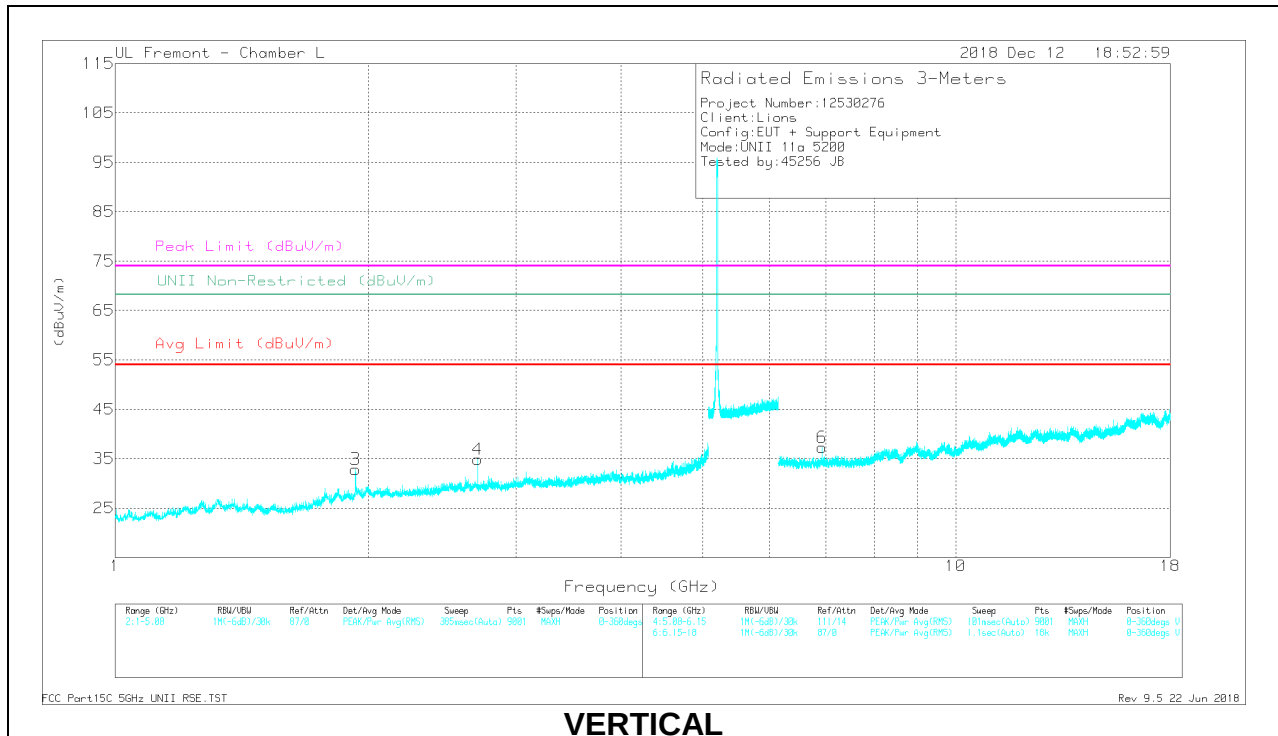
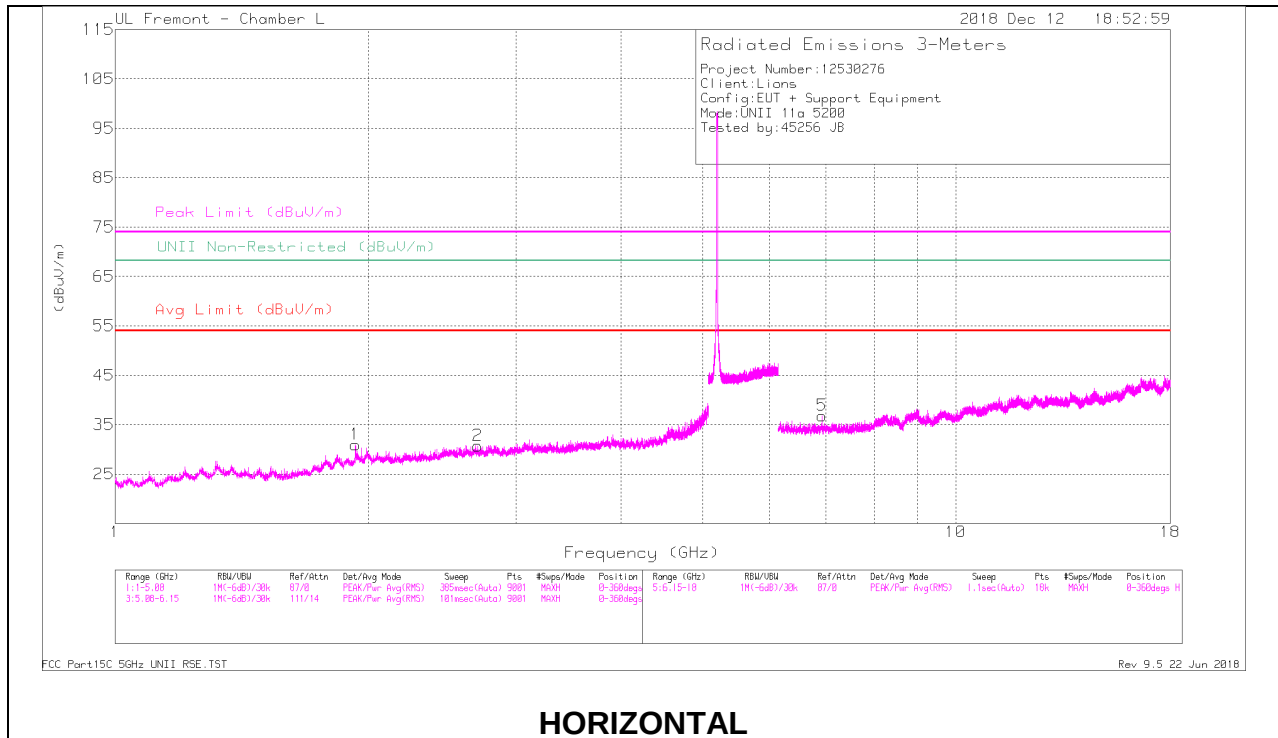
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/CM/FHz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULR Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-----------------------------|----------------|----------------|-------------|----------|
| * 2.697         | 37.31                | PK-U | 32.6              | -32.1               | 0            | 37.81                      | -                  | -           | 74                  | -36.19         | -                           | -              | 77             | 194         | H        |
| * 2.696         | 27.31                | ADR  | 32.6              | -32.1               | 0.23         | 28.04                      | 54                 | -25.96      | -                   | -              | -                           | -              | 77             | 194         | H        |
| 1.932           | 41.14                | PK-U | 31.3              | -33.5               | 0            | 38.94                      | -                  | -           | -                   | -              | 68.2                        | -29.26         | 219            | 148         | H        |
| * 2.7           | 38.95                | PK-U | 32.6              | -32.1               | 0            | 39.45                      | -                  | -           | 74                  | -34.55         | -                           | -              | 210            | 230         | V        |
| * 2.7           | 31.66                | ADR  | 32.6              | -32.1               | 0.23         | 32.39                      | 54                 | -21.61      | -                   | -              | -                           | -              | 210            | 230         | V        |
| 1.931           | 40.61                | PK-U | 31.3              | -33.5               | 0            | 38.41                      | -                  | -           | -                   | -              | 68.2                        | -29.79         | 31             | 189         | V        |
| 6.907           | 34.93                | PK-U | 35.7              | -25.9               | 0            | 44.73                      | -                  | -           | -                   | -              | 68.2                        | -23.47         | 112            | 153         | H        |
| 6.907           | 35.57                | PK-U | 35.7              | -25.9               | 0            | 45.37                      | -                  | -           | -                   | -              | 68.2                        | -22.83         | 133            | 154         | 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

## MID CHANNEL RESULTS



## RADIATED EMISSIONS

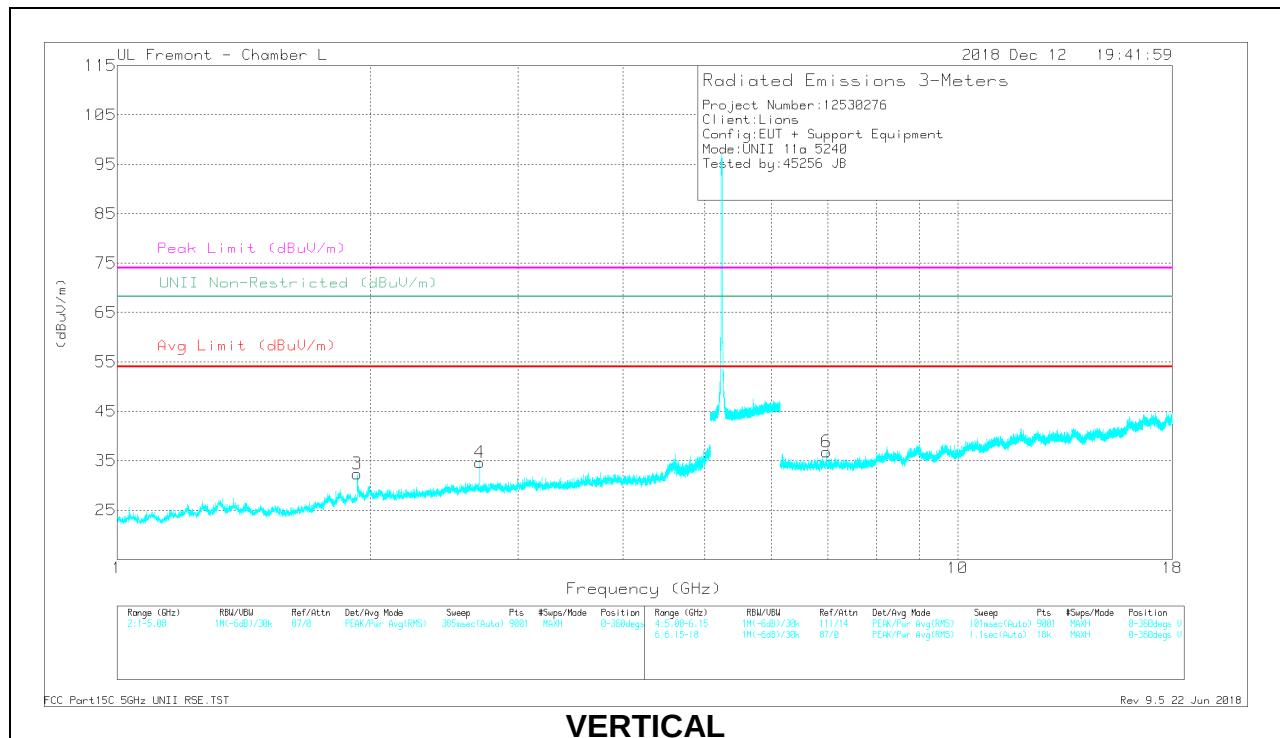
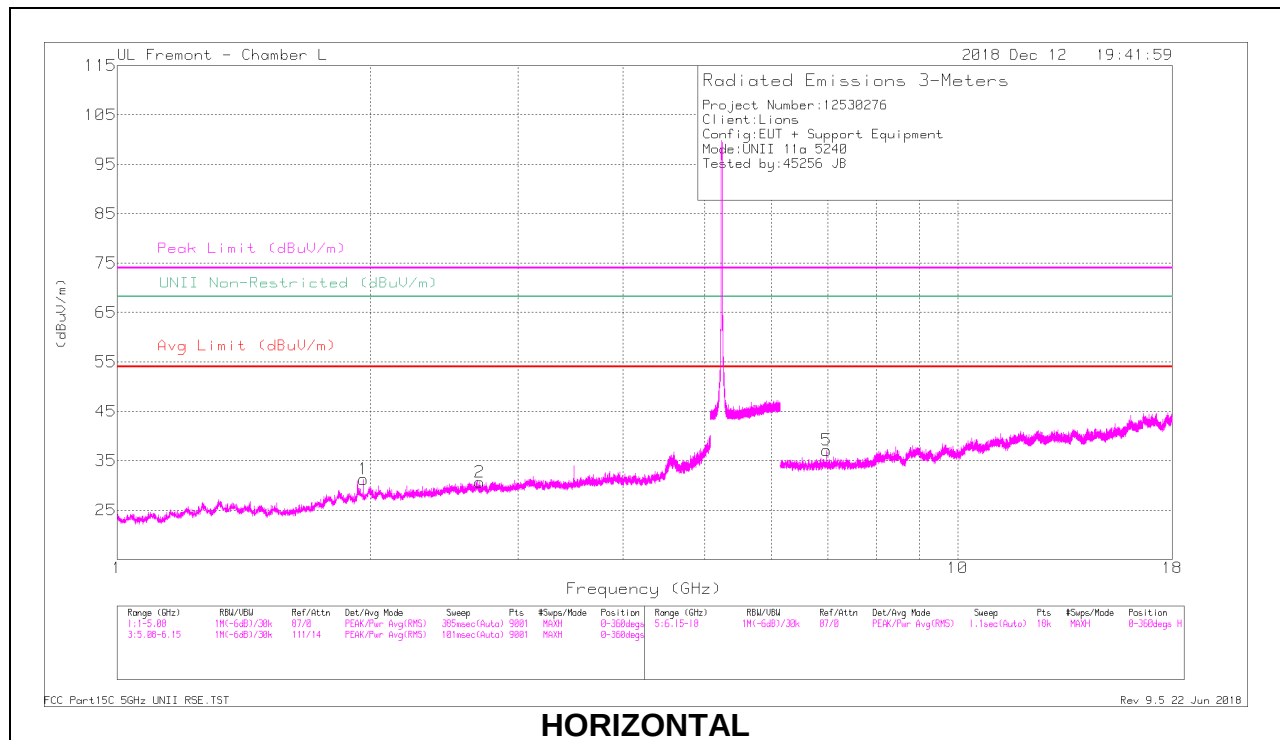
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.17                | PK-U | 32.6              | -32.1                | 0            | 37.67                      | -                  | -           | 74                  | -36.33         | -                             | -              | 156            | 183         | H        |
| * 2.7           | 29.64                | ADR  | 32.6              | -32.1                | 0.23         | 30.37                      | 54                 | -23.63      | -                   | -              | -                             | -              | 156            | 183         | H        |
| 1.932           | 39.54                | PK-U | 31.3              | -33.5                | 0            | 37.34                      | -                  | -           | -                   | -              | 68.2                          | -30.86         | 119            | 172         | H        |
| * 2.7           | 39.12                | PK-U | 32.6              | -32.1                | 0            | 39.62                      | -                  | -           | 74                  | -34.38         | -                             | -              | 235            | 113         | V        |
| * 2.7           | 33.3                 | ADR  | 32.6              | -32.1                | 0.23         | 34.03                      | 54                 | -19.97      | -                   | -              | -                             | -              | 235            | 113         | V        |
| 1.931           | 40.95                | PK-U | 31.3              | -33.5                | 0            | 38.75                      | -                  | -           | -                   | -              | 68.2                          | -29.45         | 92             | 279         | V        |
| 6.933           | 33.12                | PK-U | 35.7              | -25                  | 0            | 43.82                      | -                  | -           | -                   | -              | 68.2                          | -24.38         | 115            | 197         | H        |
| 6.933           | 33.34                | PK-U | 35.7              | -25                  | 0            | 44.04                      | -                  | -           | -                   | -              | 68.2                          | -24.16         | 132            | 155         | 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

## HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Chi/Fbr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 2.699         | 37.17                | PK-U | 32.6              | -32.1                | 0            | 37.67                      | -                  | -           | 74                  | -36.33         | -                             | -              | 160            | 160         | H        |
| * 2.7           | 28.5                 | ADR  | 32.6              | -32.1                | 0.23         | 29.23                      | 54                 | -24.77      | -                   | -              | -                             | -              | 160            | 160         | H        |
| 1.964           | 38.05                | PK-U | 31.5              | -33                  | 0            | 36.55                      | -                  | -           | -                   | -              | 68.2                          | -31.65         | 16             | 149         | H        |
| * 2.7           | 38.76                | PK-U | 32.6              | -32.1                | 0            | 39.26                      | -                  | -           | 74                  | -34.74         | -                             | -              | 237            | 109         | V        |
| * 2.7           | 33.8                 | ADR  | 32.6              | -32.1                | 0.23         | 34.53                      | 54                 | -19.47      | -                   | -              | -                             | -              | 237            | 109         | V        |
| 1.931           | 40.19                | PK-U | 31.3              | -33.5                | 0            | 37.99                      | -                  | -           | -                   | -              | 68.2                          | -30.21         | 339            | 190         | V        |
| 6.987           | 32.77                | PK-U | 35.8              | -25.2                | 0            | 43.37                      | -                  | -           | -                   | -              | 68.2                          | -24.83         | 183            | 162         | H        |
| 6.987           | 33.38                | PK-U | 35.8              | -25.2                | 0            | 43.98                      | -                  | -           | -                   | -              | 68.2                          | -24.22         | 129            | 144         | V        |

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

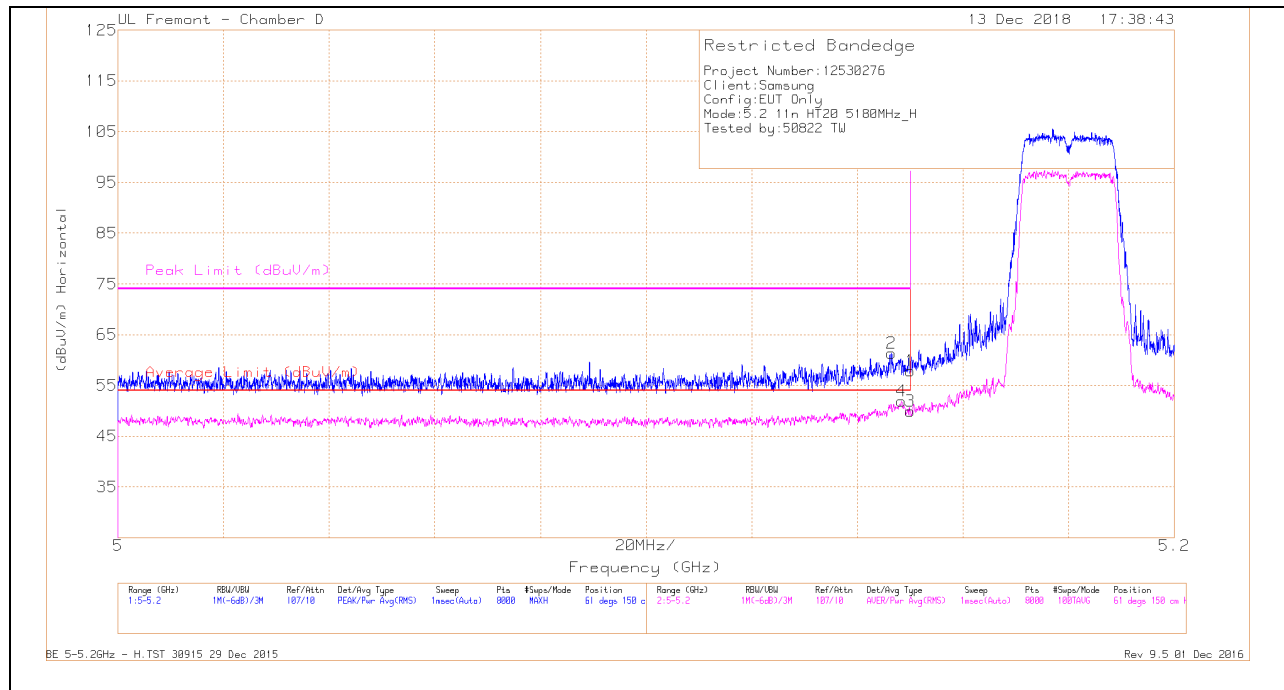
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

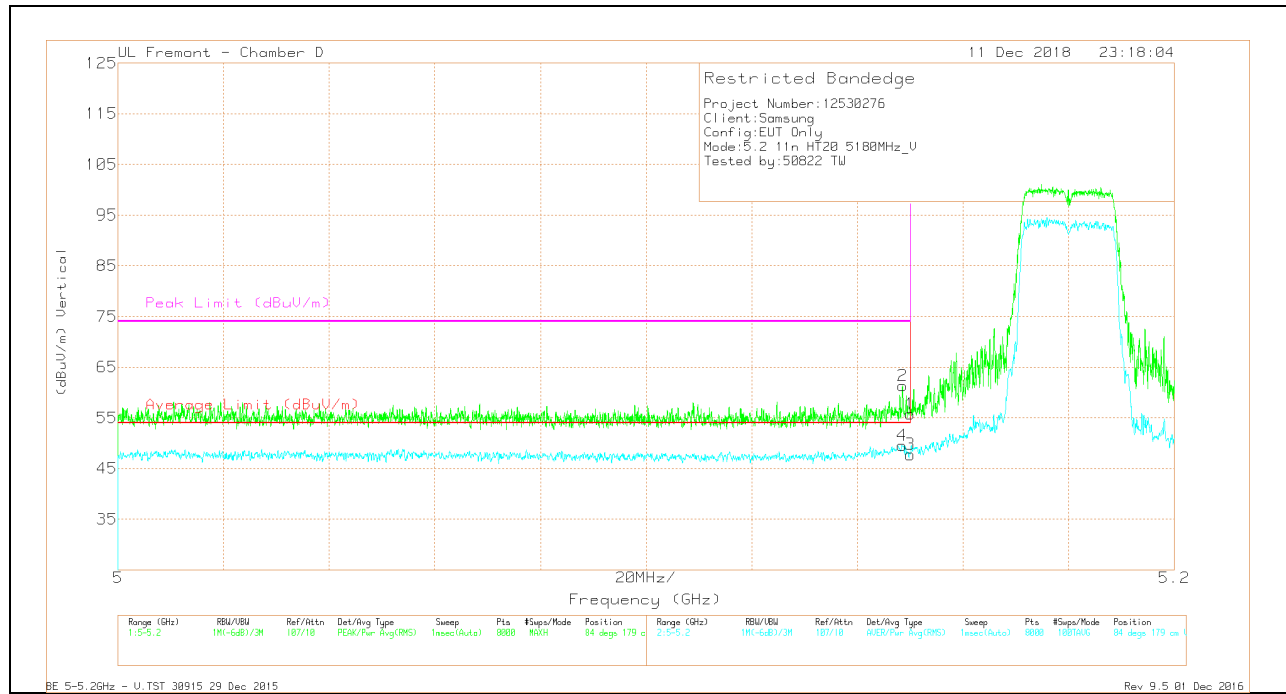
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.15          | 40.91                | Pk  | 34.4           | -17.5                | 0            | 57.81                      | -                      | -           | 74                  | -16.19         | 61              | 150         | H        |
| 2      | * 5.146         | 44.42                | Pk  | 34.4           | -17.5                | 0            | 61.32                      | -                      | -           | 74                  | -12.68         | 61              | 150         | H        |
| 3      | * 5.15          | 32.7                 | RMS | 34.4           | -17.5                | 0.24         | 49.84                      | 54                     | -4.16       | -                   | -              | 61              | 150         | H        |
| 4      | * 5.148         | 34.67                | RMS | 34.4           | -17.5                | 0.24         | 51.81                      | 54                     | -2.19       | -                   | -              | 61              | 150         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 4      | * 5.148         | 32.42                | RMS | 34.4           | -17.5               | 0.24         | 49.56                      | 54                     | -4.44       | -                   | -              | 84             | 179         | V        |
| 2      | * 5.149         | 44.43                | Pk  | 34.4           | -17.5               | 0            | 61.33                      | -                      | -           | 74                  | -12.67         | 84             | 179         | V        |
| 1      | * 5.15          | 38.84                | Pk  | 34.4           | -17.5               | 0            | 55.74                      | -                      | -           | 74                  | -18.26         | 84             | 179         | V        |
| 3      | * 5.15          | 30.57                | RMS | 34.4           | -17.5               | 0.24         | 47.71                      | 54                     | -6.29       | -                   | -              | 84             | 179         | V        |

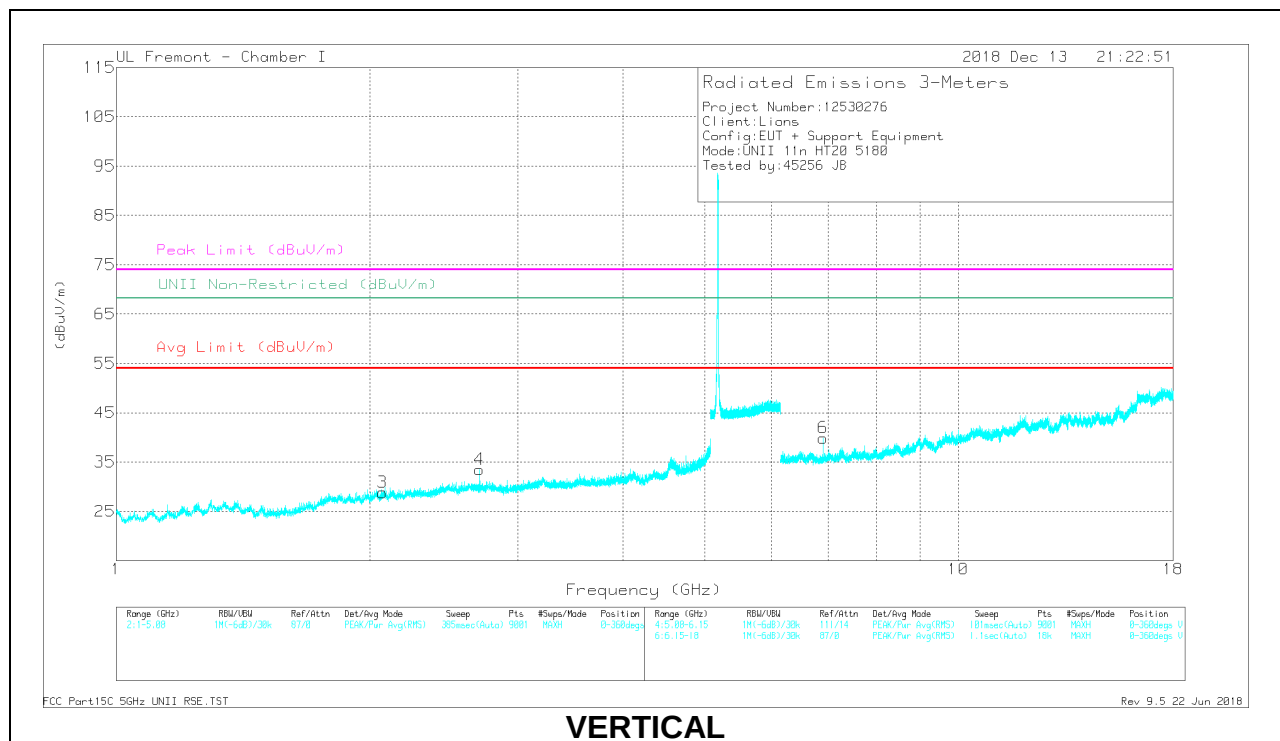
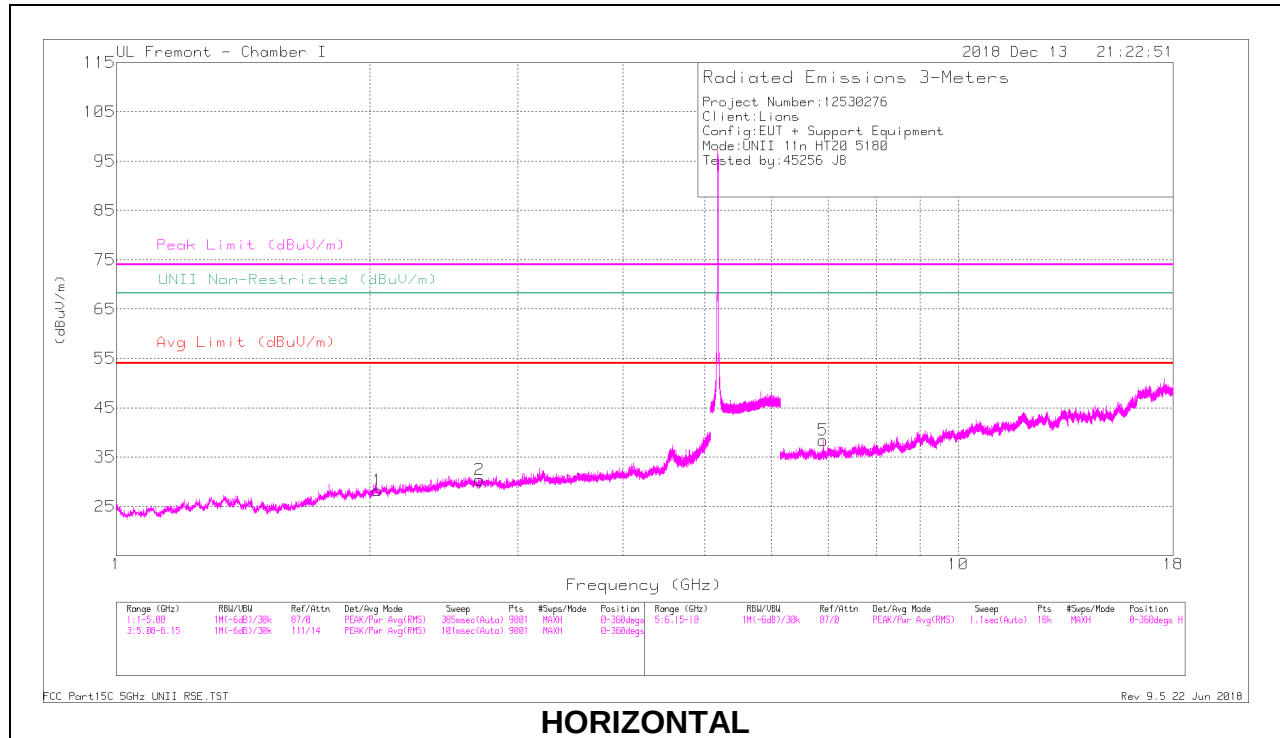
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

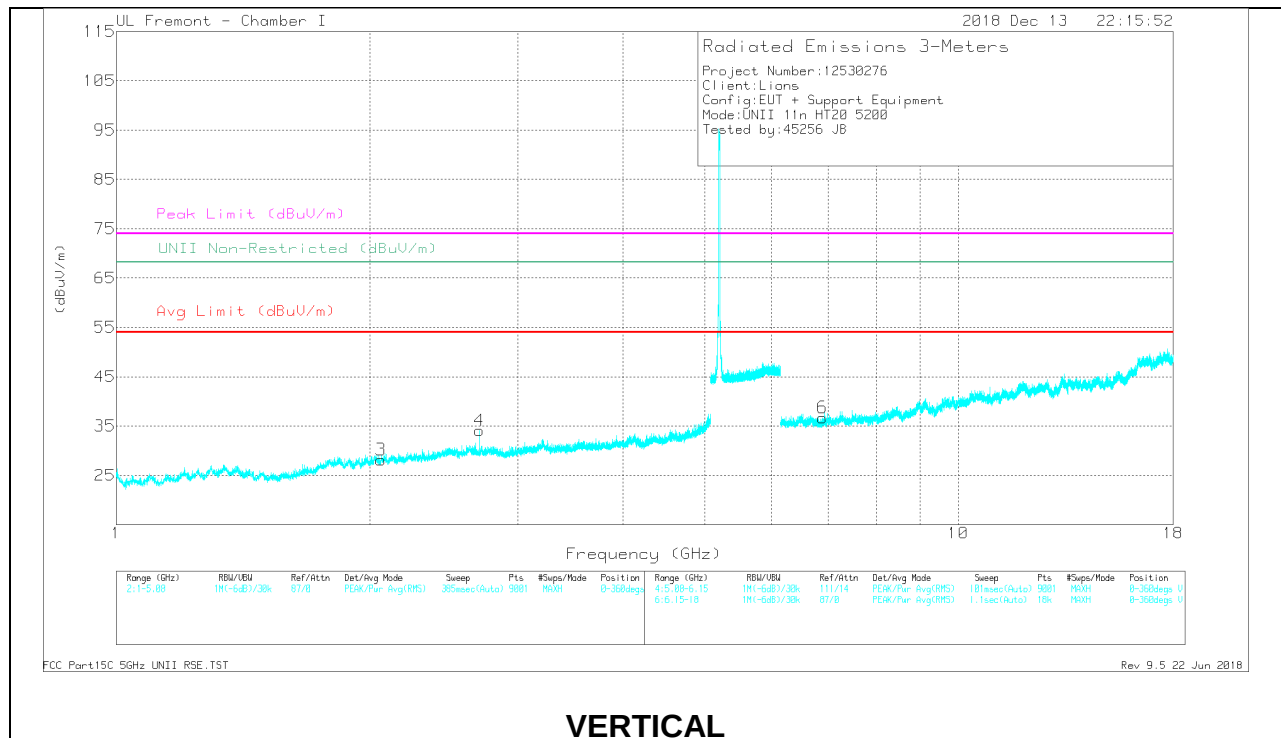
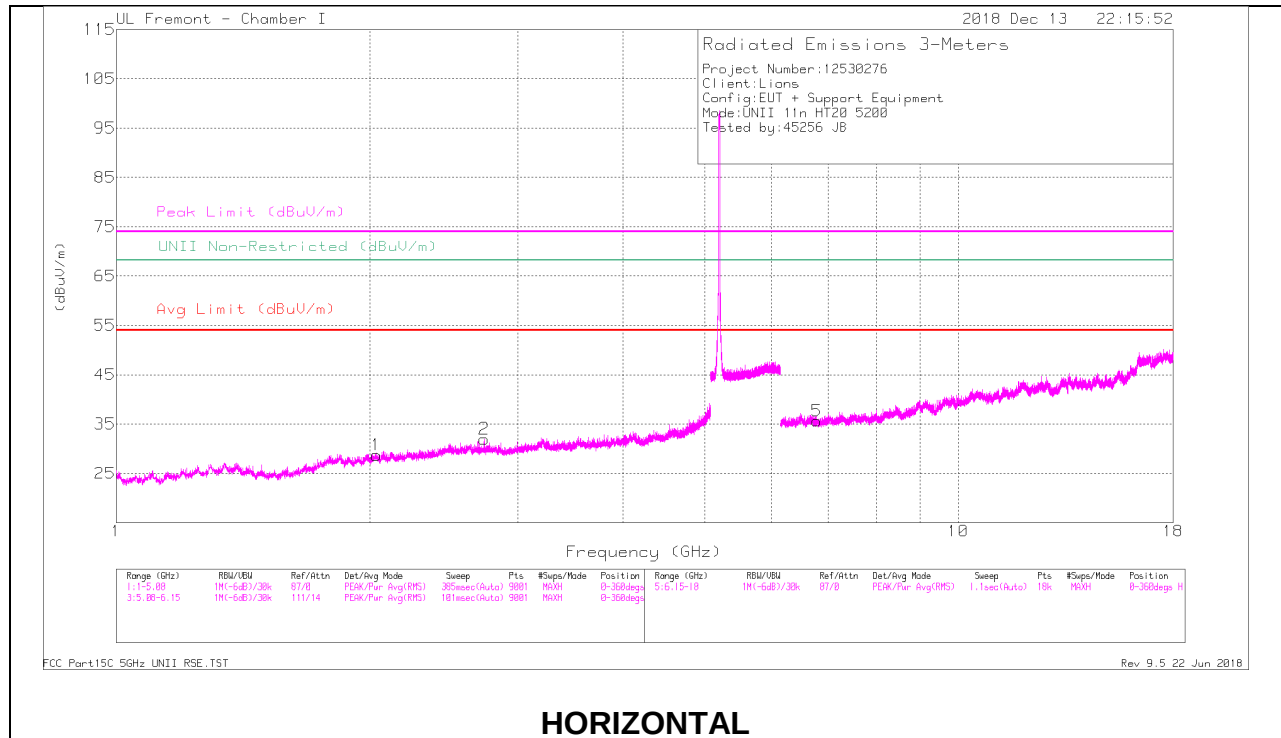
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TRF2 (dB/m) | Ampl/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.11                | PK-U | 32.4           | -31.4                 | 0            | 38.11                      | -                  | -           | 74                  | -35.89         | -                            | -              | 88             | 237         | H        |
| * 2.7           | 27.52                | ADR  | 32.4           | -31.4                 | 0.24         | 28.76                      | 54                 | -25.24      | -                   | -              | -                            | -              | 88             | 237         | H        |
| 2.044           | 37.88                | PK-U | 31.1           | -32.2                 | 0            | 36.78                      | -                  | -           | -                   | -              | 68.2                         | -31.42         | 215            | 272         | H        |
| * 2.7           | 38.87                | PK-U | 32.4           | -31.4                 | 0            | 39.87                      | -                  | -           | 74                  | -34.13         | -                            | -              | 174            | 228         | V        |
| * 2.7           | 31.84                | ADR  | 32.4           | -31.4                 | 0.24         | 33.08                      | 54                 | -20.92      | -                   | -              | -                            | -              | 174            | 228         | V        |
| 2.072           | 37.17                | PK-U | 31.1           | -32.2                 | 0            | 36.07                      | -                  | -           | -                   | -              | 68.2                         | -32.13         | 296            | 394         | V        |
| 6.907           | 31.55                | PK-U | 35.5           | -21.5                 | 0            | 45.55                      | -                  | -           | -                   | -              | 68.2                         | -22.65         | 43             | 169         | H        |
| 6.907           | 31.63                | PK-U | 35.5           | -21.5                 | 0            | 45.63                      | -                  | -           | -                   | -              | 68.2                         | -22.57         | 68             | 116         | 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

## MID CHANNEL RESULTS



## RADIATED EMISSIONS

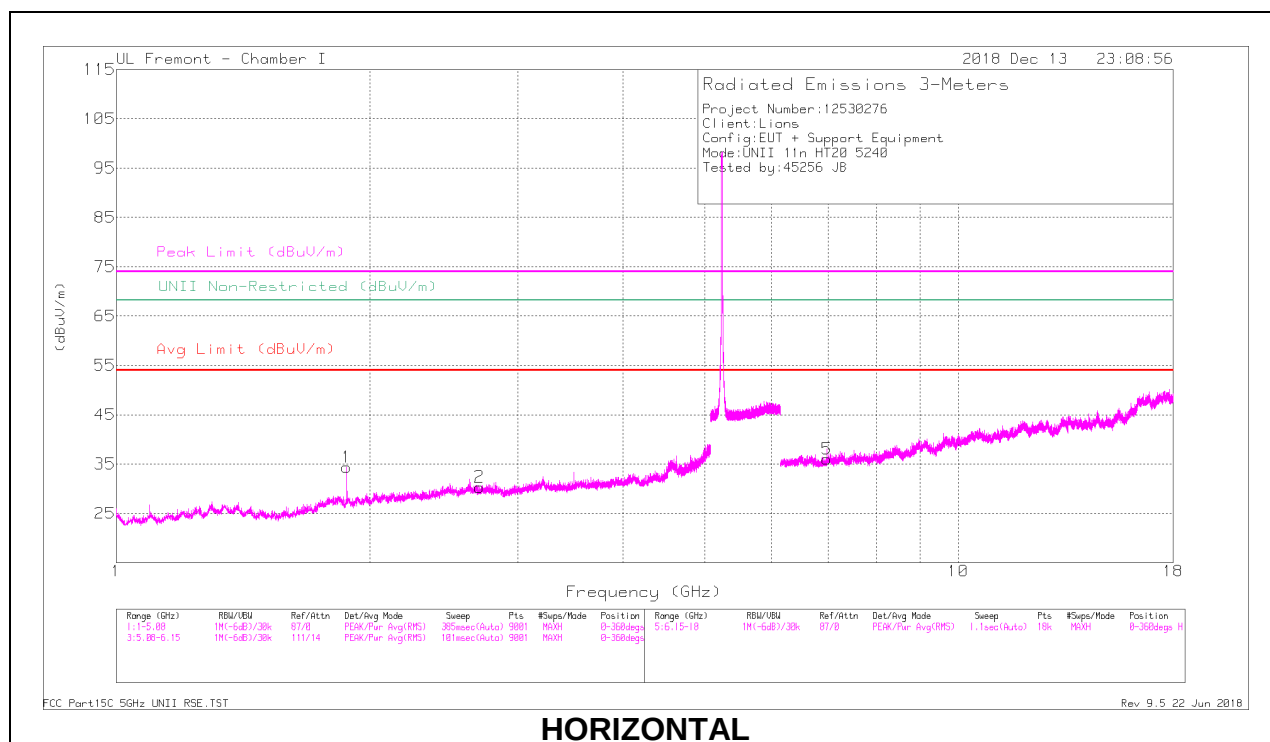
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TRF2 (dB/m) | Ampl/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.733         | 36.57                | PK-U | 32.4           | -31                   | 0            | 37.97                      | -                  | -           | 74                  | -36.03         | -                            | -              | 209            | 394         | H        |
| * 2.733         | 26.9                 | ADR  | 32.4           | -31                   | 0.24         | 28.54                      | 54                 | -25.46      | -                   | -              | -                            | -              | 209            | 394         | H        |
| 2.038           | 36.89                | PK-U | 31.1           | -32.2                 | 0            | 35.79                      | -                  | -           | -                   | -              | 68.2                         | -32.41         | 290            | 140         | H        |
| * 2.7           | 38.68                | PK-U | 32.4           | -31.4                 | 0            | 39.68                      | -                  | -           | 74                  | -34.32         | -                            | -              | 166            | 208         | V        |
| * 2.7           | 31.94                | ADR  | 32.4           | -31.4                 | 0.24         | 33.18                      | 54                 | -20.82      | -                   | -              | -                            | -              | 166            | 208         | V        |
| 2.062           | 36.7                 | PK-U | 31.2           | -32.2                 | 0            | 35.7                       | -                  | -           | -                   | -              | 68.2                         | -32.5          | 178            | 358         | V        |
| 6.79            | 30.34                | PK-U | 35.6           | -21.6                 | 0            | 44.34                      | -                  | -           | -                   | -              | 68.2                         | -23.86         | 211            | 369         | H        |
| 6.895           | 29.4                 | PK-U | 35.6           | -21.5                 | 0            | 43.5                       | -                  | -           | -                   | -              | 68.2                         | -24.7          | 31             | 154         | V        |

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

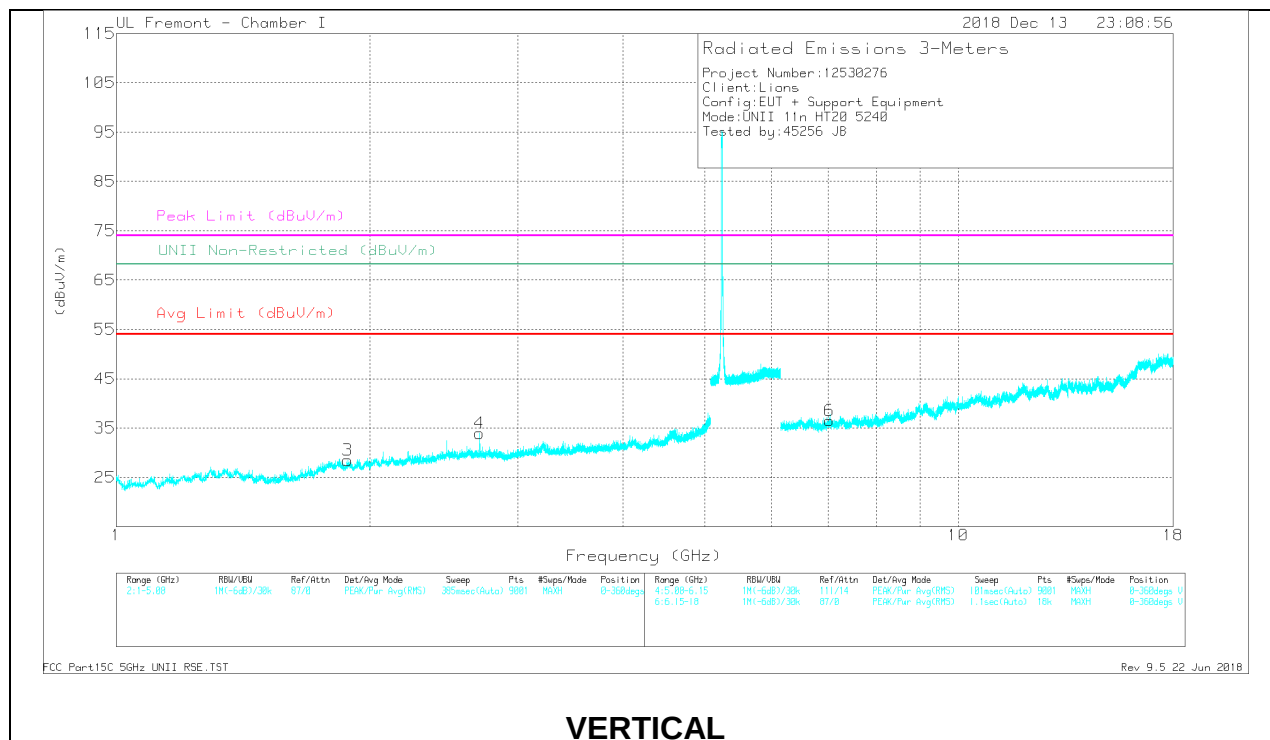
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## HIGH CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TR2 (dB/m) | Amp/Cb/FHz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 36.59                | PK-U | 32.4          | -31.4               | 0            | 37.59                      | -                  | -           | 74                  | -36.41         | -                            | -              | 97             | 157         | H        |
| * 2.7           | 27.89                | ADR  | 32.4          | -31.4               | 0.24         | 29.13                      | 54                 | -24.87      | -                   | -              | -                            | -              | 97             | 157         | H        |
| 1.878           | 37.87                | PK-U | 30.6          | -32.6               | 0            | 35.87                      | -                  | -           | -                   | -              | 68.2                         | -32.33         | 345            | 114         | H        |
| * 2.7           | 38.03                | PK-U | 32.4          | -31.4               | 0            | 39.03                      | -                  | -           | 74                  | -34.97         | -                            | -              | 172            | 229         | V        |
| * 2.7           | 31.8                 | ADR  | 32.4          | -31.4               | 0.24         | 33.04                      | 54                 | -20.96      | -                   | -              | -                            | -              | 172            | 229         | V        |
| 1.881           | 37.51                | PK-U | 30.6          | -32.6               | 0            | 35.51                      | -                  | -           | -                   | -              | 68.2                         | -32.69         | 90             | 340         | V        |
| 6.987           | 29.39                | PK-U | 35.6          | -21                 | 0            | 43.99                      | -                  | -           | -                   | -              | 68.2                         | -24.21         | 114            | 167         | H        |
| 7.027           | 28.48                | PK-U | 35.6          | -20.4               | 0            | 43.68                      | -                  | -           | -                   | -              | 68.2                         | -24.52         | 108            | 299         | V        |

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

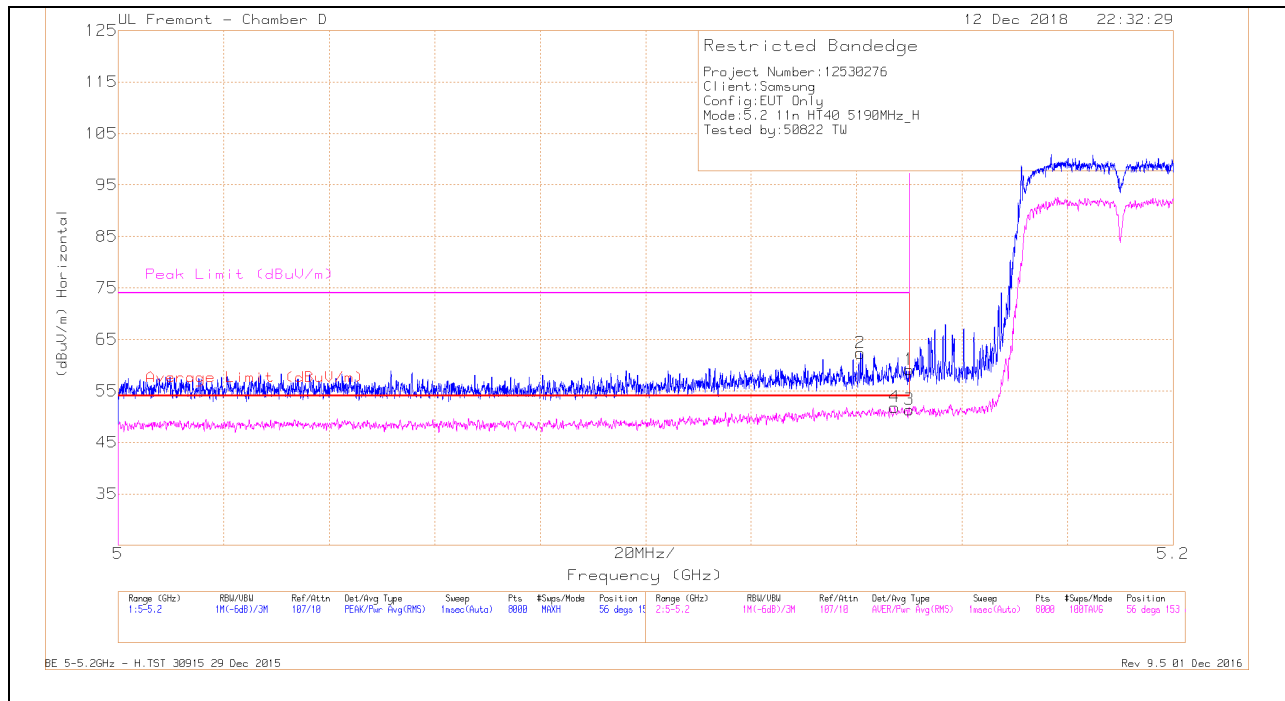
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### 9.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 2      | * 5.141         | 45.47                | Pk  | 34.4           | -17.5               | 0            | 62.37                      | -                      | -           | 74                  | -11.63         | 56              | 153         | H        |
| 4      | * 5.147         | 34.32                | RMS | 34.4           | -17.5               | 0.58         | 51.8                       | 54                     | -2.2        | -                   | -              | 56              | 153         | H        |
| 1      | * 5.15          | 42.24                | Pk  | 34.4           | -17.5               | 0            | 59.14                      | -                      | -           | 74                  | -14.86         | 56              | 153         | H        |
| 3      | * 5.15          | 33.83                | RMS | 34.4           | -17.5               | 0.58         | 51.31                      | 54                     | -2.69       | -                   | -              | 56              | 153         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Ch/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.15          | 39.5                 | Pk  | 34.4           | -17.5                | 0            | 56.4                       | -                      | -           | 74                  | -17.6          | 75              | 218         | V        |
| 2      | * 5.119         | 42.38                | Pk  | 34.4           | -17.4                | 0            | 59.38                      | -                      | -           | 74                  | -14.62         | 75              | 218         | V        |
| 3      | * 5.15          | 31.29                | RMS | 34.4           | -17.5                | 0.58         | 48.77                      | 54                     | -5.23       | -                   | -              | 75              | 218         | V        |
| 4      | * 5.143         | 32.54                | RMS | 34.4           | -17.5                | 0.58         | 50.02                      | 54                     | -3.98       | -                   | -              | 75              | 218         | V        |

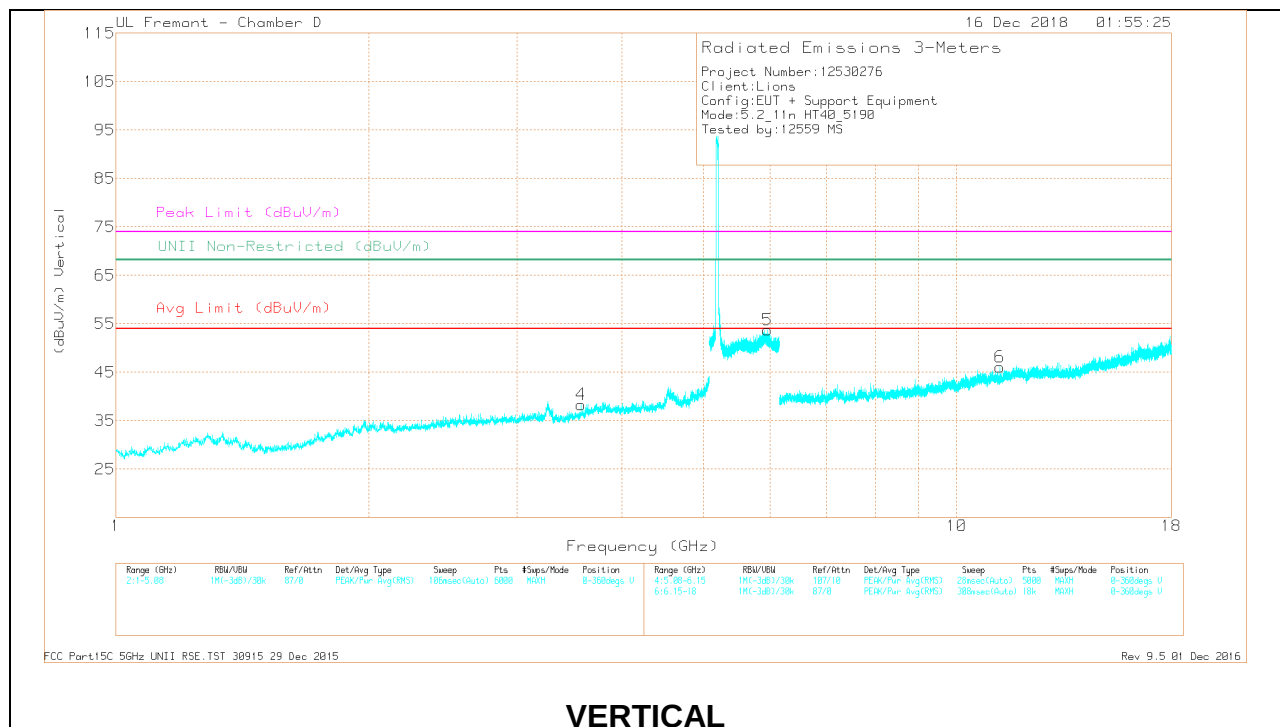
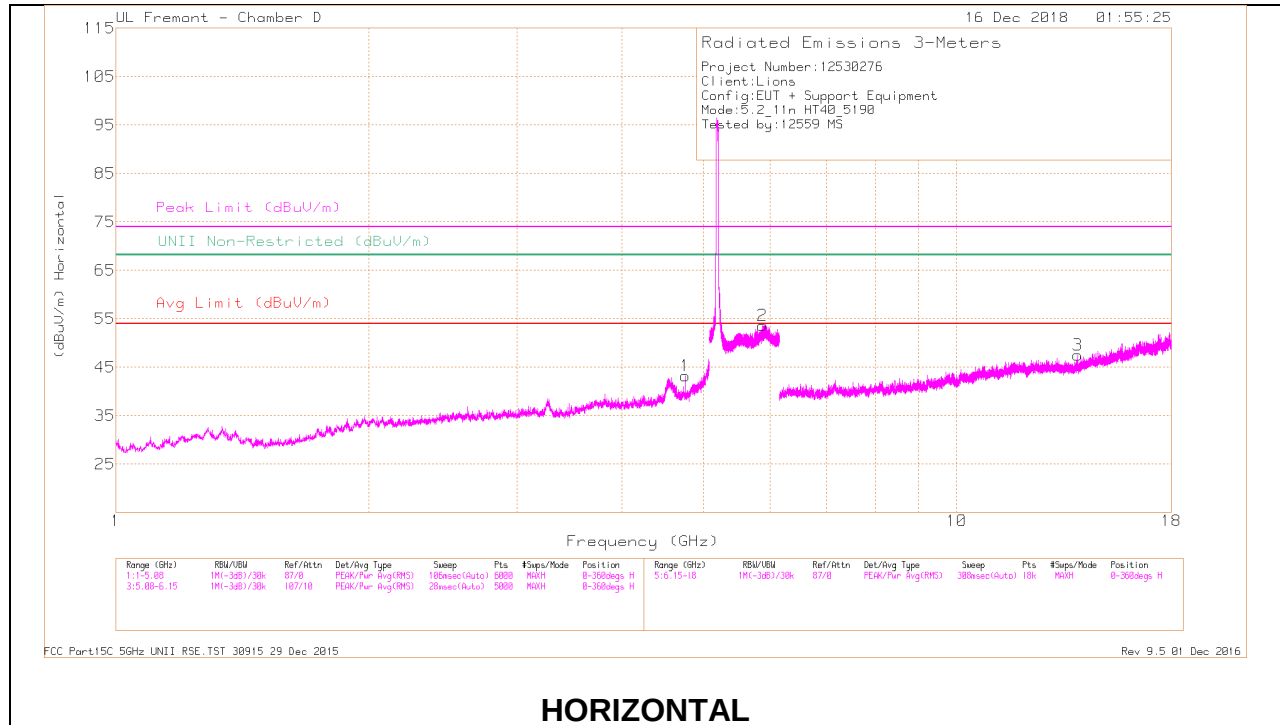
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

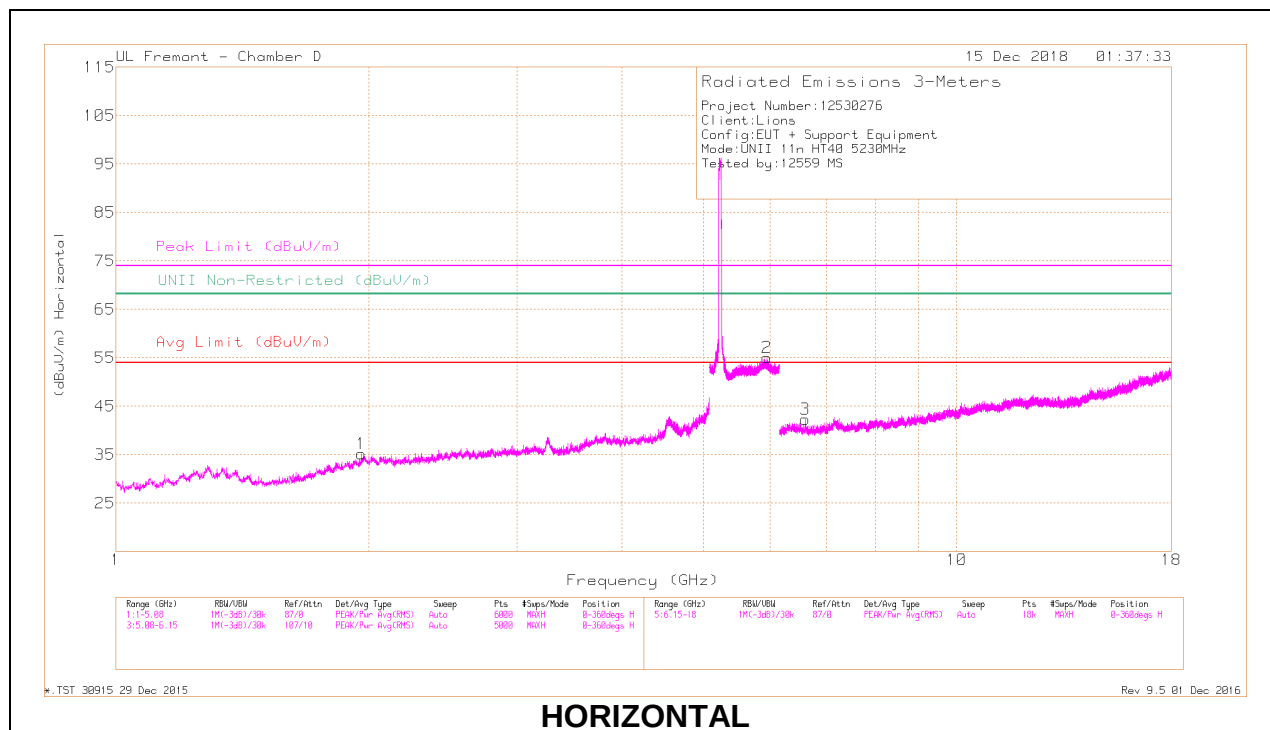
| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF T119 (dB/m) | Amp/Cbl/Ftr/Fed (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unfil Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 4.758         | 44.46                | PK-U | 34.2           | -26.4                | 0            | 52.26                      | -                  | -           | 74                  | -21.74         | -                             | -              | 62             | 106         | H        |
| * 4.758         | 34.48                | ADR  | 34.2           | -26.4                | 0.58         | 42.86                      | 54                 | -11.14      | -                   | -              | -                             | -              | 62             | 106         | H        |
| * 3.576         | 39.64                | PK-U | 33.6           | -28.4                | 0            | 44.84                      | -                  | -           | 74                  | -29.16         | -                             | -              | 83             | 309         | V        |
| * 3.576         | 26.98                | ADR  | 33.6           | -28.4                | 0.58         | 32.76                      | 54                 | -21.24      | -                   | -              | -                             | -              | 83             | 309         | V        |
| * 11.25         | 34.8                 | PK-U | 38.1           | -20.6                | 0            | 52.3                       | -                  | -           | 74                  | -21.7          | -                             | -              | 198            | 330         | V        |
| * 11.248        | 20.9                 | ADR  | 38.2           | -20.6                | 0.58         | 39.08                      | 54                 | -14.92      | -                   | -              | -                             | -              | 198            | 330         | V        |
| 5.872           | 26.28                | ADR  | 35.1           | -16.4                | 0.58         | 45.56                      | 54                 | -8.44       | -                   | -              | -                             | -              | 0              | 266         | H        |
| 5.873           | 42.25                | PK-U | 35.1           | -16.4                | 0            | 60.95                      | -                  | -           | -                   | -              | 68.2                          | -7.25          | 0              | 266         | H        |
| 5.952           | 26                   | ADR  | 35.1           | -16.3                | 0.58         | 45.38                      | -                  | -           | -                   | -              | -                             | -              | 248            | 238         | V        |
| 5.954           | 42.63                | PK-U | 35.1           | -16.3                | 0            | 61.43                      | -                  | -           | -                   | -              | 68.2                          | -6.77          | 248            | 238         | V        |
| 13.927          | 37.45                | PK-U | 38.8           | -21.9                | 0            | 54.35                      | -                  | -           | -                   | -              | 68.2                          | -13.85         | 190            | 289         | H        |
| 13.929          | 23.74                | ADR  | 38.8           | -22                  | 0.58         | 41.12                      | -                  | -           | -                   | -              | -                             | -              | 190            | 289         | H        |

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

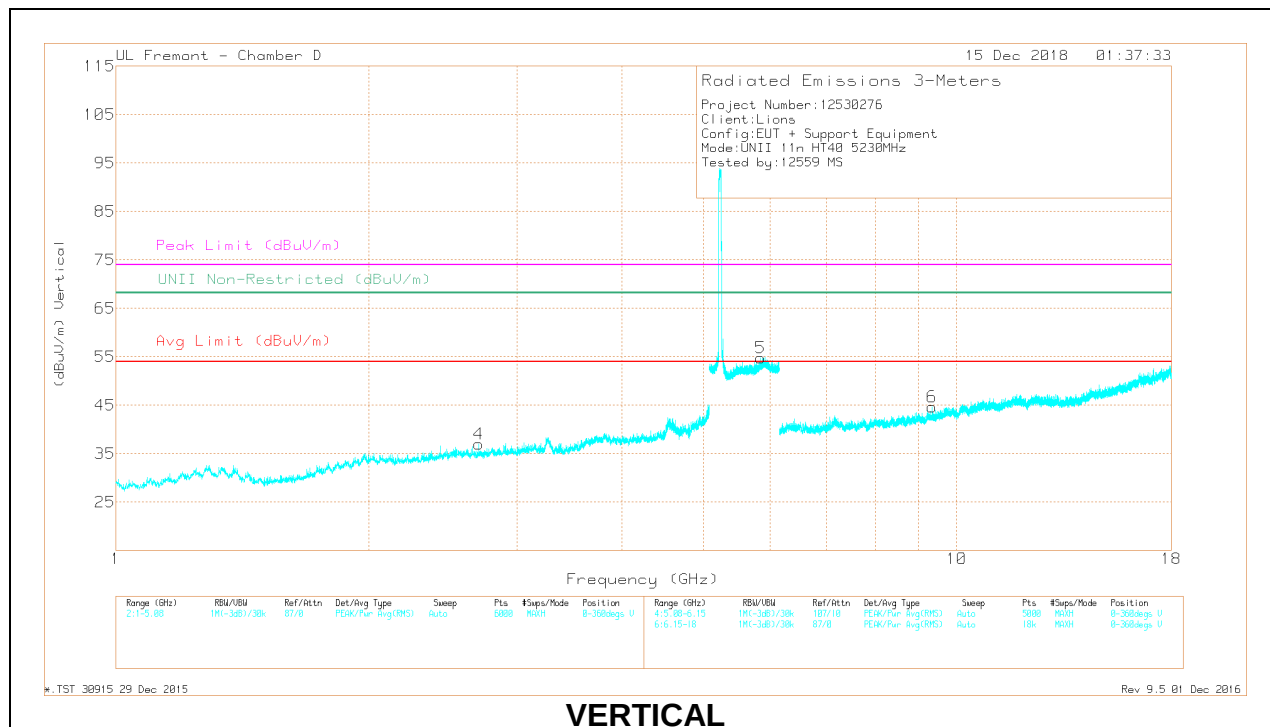
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## HIGH CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Frequency (Hz) | Meter Reading (dBuV) | Det  | AF T119 (dB/m) | Amp/Cbl/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unli Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|----------------|----------------------|------|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7          | 41.31                | PK-U | 32.8           | -29.8                | 0            | 44.31                      | -                  | -           | 74                  | -29.69         | -                            | -              | 135            | 154         | V        |
| * 2.7          | 31.31                | ADR  | 32.8           | -29.8                | 0.58         | 34.89                      | 54                 | -19.11      | -                   | -              | -                            | -              | 135            | 154         | V        |
| * 9.354        | 35.11                | PK-U | 36.4           | -21.2                | 0            | 50.31                      | -                  | -           | 74                  | -23.69         | -                            | -              | 41             | 200         | V        |
| * 9.356        | 23.44                | ADR  | 36.4           | -21.2                | 0.58         | 39.22                      | 54                 | -14.78      | -                   | -              | -                            | -              | 41             | 200         | V        |
| 1.958          | 39.57                | PK-U | 31.8           | -30.1                | 0            | 41.27                      | -                  | -           | -                   | -              | 68.2                         | -26.93         | 24             | 299         | H        |
| 1.96           | 27.9                 | ADR  | 31.8           | -30.1                | 0.58         | 30.18                      | -                  | -           | -                   | -              | -                            | -              | 24             | 299         | H        |
| 5.842          | 30.95                | ADR  | 35             | -16.5                | 0.58         | 50.03                      | -                  | -           | -                   | -              | -                            | -              | 25             | 336         | V        |
| 5.843          | 42.8                 | PK-U | 35             | -16.5                | 0            | 61.3                       | -                  | -           | -                   | -              | 68.2                         | -6.9           | 25             | 336         | V        |
| 5.943          | 30.79                | ADR  | 35.2           | -16.2                | 0.58         | 50.37                      | -                  | -           | -                   | -              | -                            | -              | 126            | 227         | H        |
| 5.946          | 42.78                | PK-U | 35.2           | -16.2                | 0            | 61.68                      | -                  | -           | -                   | -              | 68.2                         | -6.52          | 126            | 227         | H        |
| 6.603          | 37                   | PK-U | 35.6           | -24.6                | 0            | 48                         | -                  | -           | -                   | -              | 68.2                         | -20.2          | 153            | 147         | H        |
| 6.604          | 25.07                | ADR  | 35.6           | -24.6                | 0.58         | 36.65                      | -                  | -           | -                   | -              | -                            | -              | 153            | 147         | H        |

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

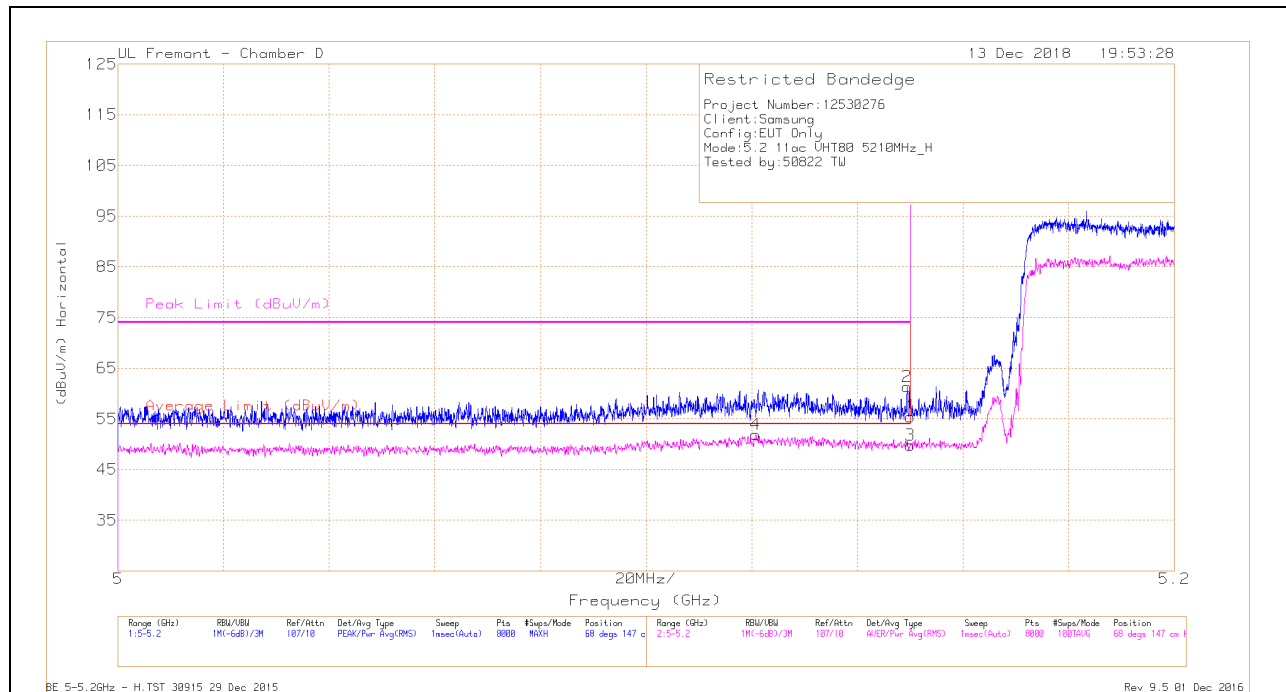
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

### BANDEDGE (MID CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

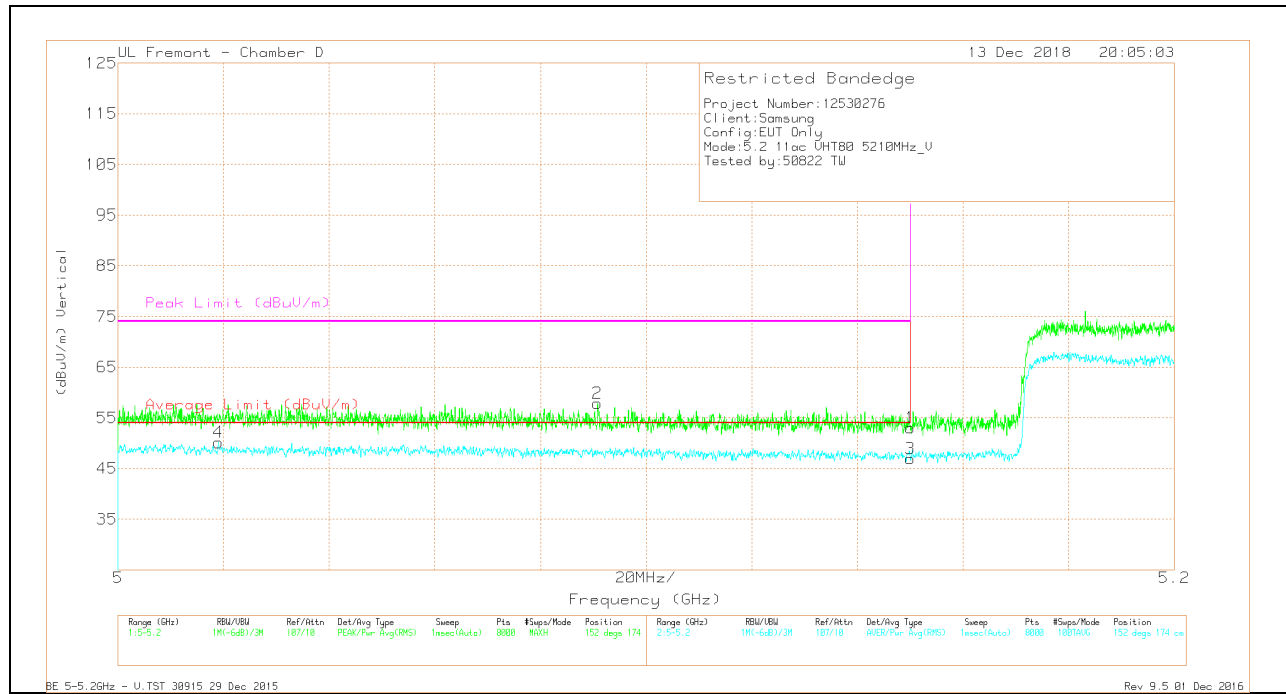
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AFT119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.15          | 38.43                | Pk  | 34.4          | -17.5                | 0            | 55.33                      | -                      | -           | 74                  | -18.67         | 68             | 147         | H        |
| 2      | * 5.149         | 44.43                | Pk  | 34.4          | -17.5                | 0            | 61.33                      | -                      | -           | 74                  | -12.67         | 68             | 147         | H        |
| 3      | * 5.15          | 31.59                | RMS | 34.4          | -17.5                | 1.28         | 49.77                      | 54                     | -4.23       | -                   | -              | 68             | 147         | H        |
| 4      | * 5.121         | 33.61                | RMS | 34.4          | -17.4                | 1.28         | 51.89                      | 54                     | -2.11       | -                   | -              | 68             | 147         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/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      | * 5.15          | 36.12                | Pk  | 34.4           | -17.5               | 0            | 53.02                      | -                      | -           | 74                  | -20.98         | 152            | 174         | V        |
| 2      | * 5.091         | 40.91                | Pk  | 34.3           | -17.3               | 0            | 57.91                      | -                      | -           | 74                  | -16.09         | 152            | 174         | V        |
| 3      | * 5.15          | 28.81                | RMS | 34.4           | -17.5               | 1.28         | 46.99                      | 54                     | -7.01       | -                   | -              | 152            | 174         | V        |
| 4      | * 5.019         | 31.73                | RMS | 34.2           | -17.1               | 1.28         | 50.11                      | 54                     | -3.89       | -                   | -              | 152            | 174         | V        |

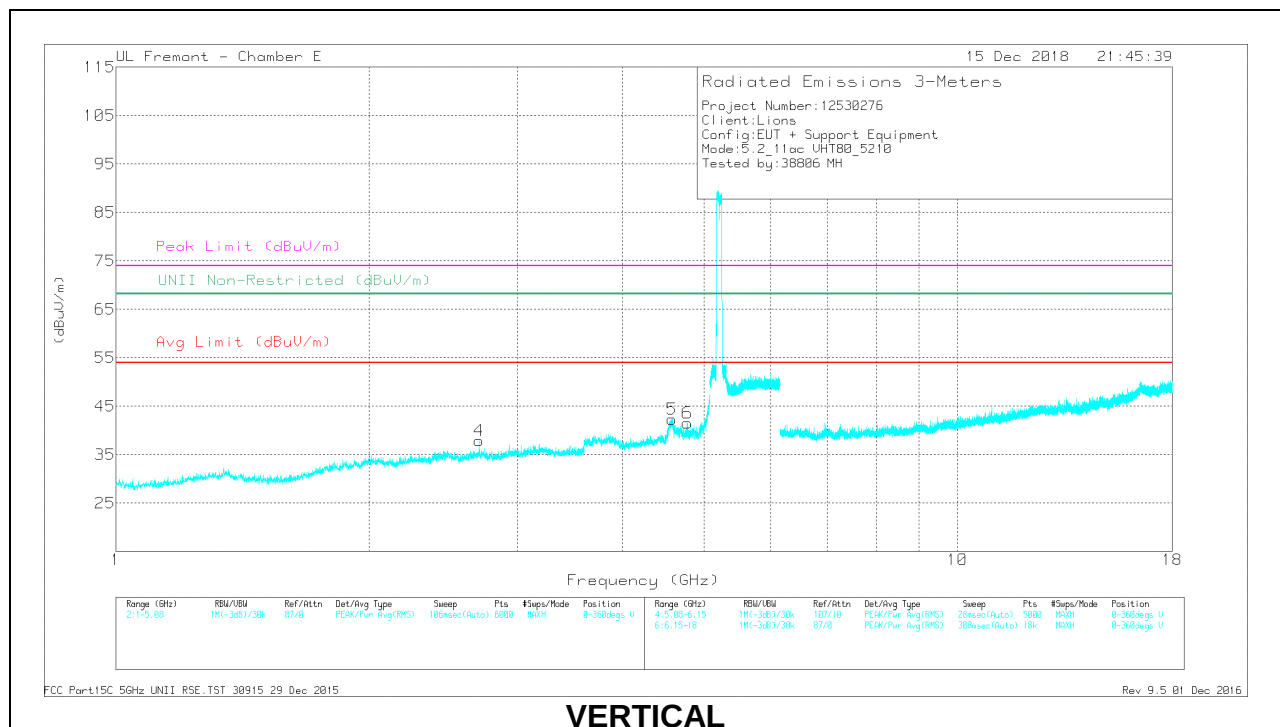
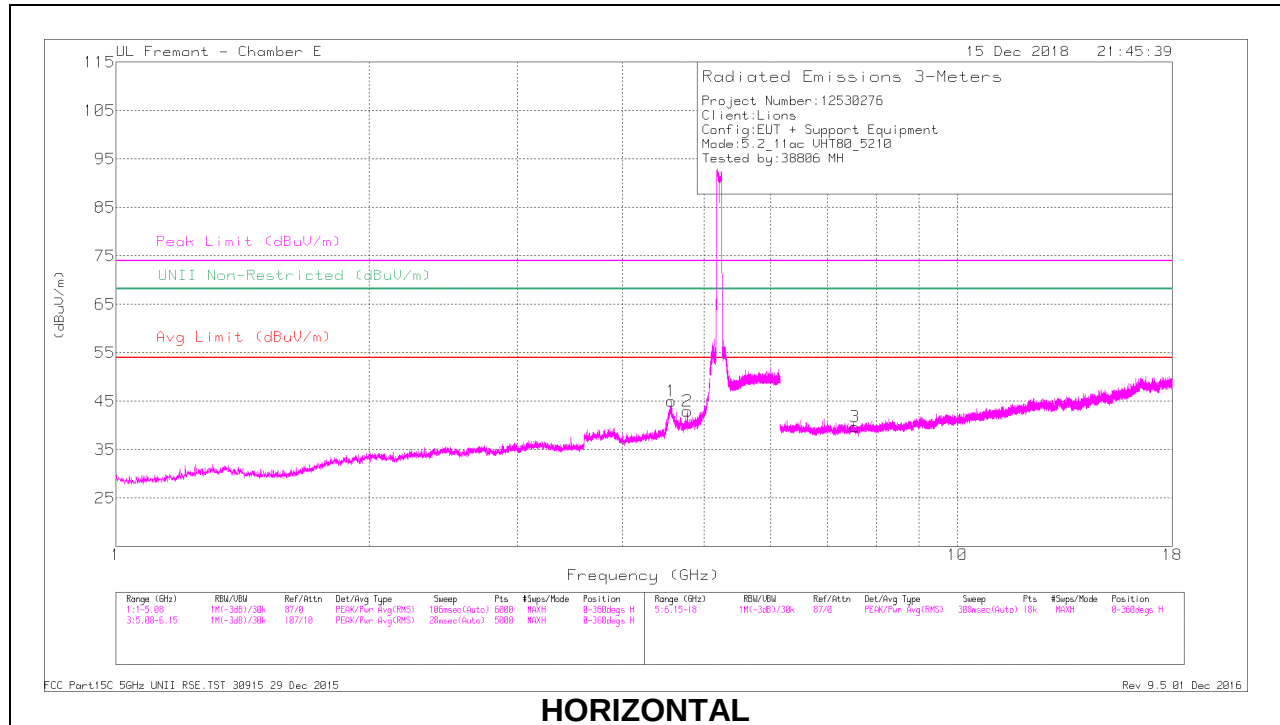
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### MID CHANNEL RESULTS



## RADIATED EMISSIONS

| Markers | Frequency (Hz) | Meter Reading (dBuV) | Det  | AF T712 (dB/m) | Amp/Ch/Ftr/Psd (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unli Non-Restricted (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|---------|----------------|----------------------|------|----------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|-----------------|-------------|----------|
| 1       | * 4.574        | 49.61                | PK-U | 33.9           | -31.5               | 0            | 52.01                      | -                  | -           | 74                  | -21.99         | -                            | -              | 148             | 136         | H        |
|         | * 4.575        | 37.97                | ADR  | 33.9           | -31.5               | 1.28         | 41.65                      | 54                 | -12.35      | -                   | -              | -                            | -              | 148             | 136         | H        |
| 2       | * 4.776        | 47.57                | PK-U | 34             | -30.7               | 0            | 50.87                      | -                  | -           | 74                  | -23.13         | -                            | -              | 144             | 125         | H        |
|         | * 4.776        | 37.09                | ADR  | 34             | -30.7               | 1.28         | 41.67                      | 54                 | -12.33      | -                   | -              | -                            | -              | 144             | 125         | H        |
| 4       | * 2.7          | 48.51                | PK-U | 32.5           | -35.4               | 0            | 45.61                      | -                  | -           | 74                  | -28.39         | -                            | -              | 273             | 202         | V        |
|         | * 2.7          | 38.43                | ADR  | 32.5           | -35.4               | 1.28         | 36.81                      | 54                 | -17.19      | -                   | -              | -                            | -              | 273             | 202         | V        |
| 5       | * 4.579        | 49.29                | PK-U | 33.9           | -31.5               | 0            | 51.69                      | -                  | -           | 74                  | -22.31         | -                            | -              | 155             | 222         | V        |
|         | * 4.579        | 37.25                | ADR  | 33.9           | -31.5               | 1.28         | 40.93                      | 54                 | -13.07      | -                   | -              | -                            | -              | 155             | 222         | V        |
| 6       | * 4.776        | 46.91                | PK-U | 34             | -30.7               | 0            | 50.21                      | -                  | -           | 74                  | -23.79         | -                            | -              | 172             | 229         | V        |
|         | * 4.776        | 36.22                | ADR  | 34             | -30.7               | 1.28         | 40.8                       | 54                 | -13.2       | -                   | -              | -                            | -              | 172             | 229         | V        |
| 3       | * 7.549        | 39.22                | PK-U | 35.7           | -27.7               | 0            | 47.22                      | -                  | -           | 74                  | -26.78         | -                            | -              | 217             | 160         | H        |
|         | * 7.549        | 27.11                | ADR  | 35.7           | -27.7               | 1.28         | 36.39                      | 54                 | -17.61      | -                   | -              | -                            | -              | 217             | 160         | H        |

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

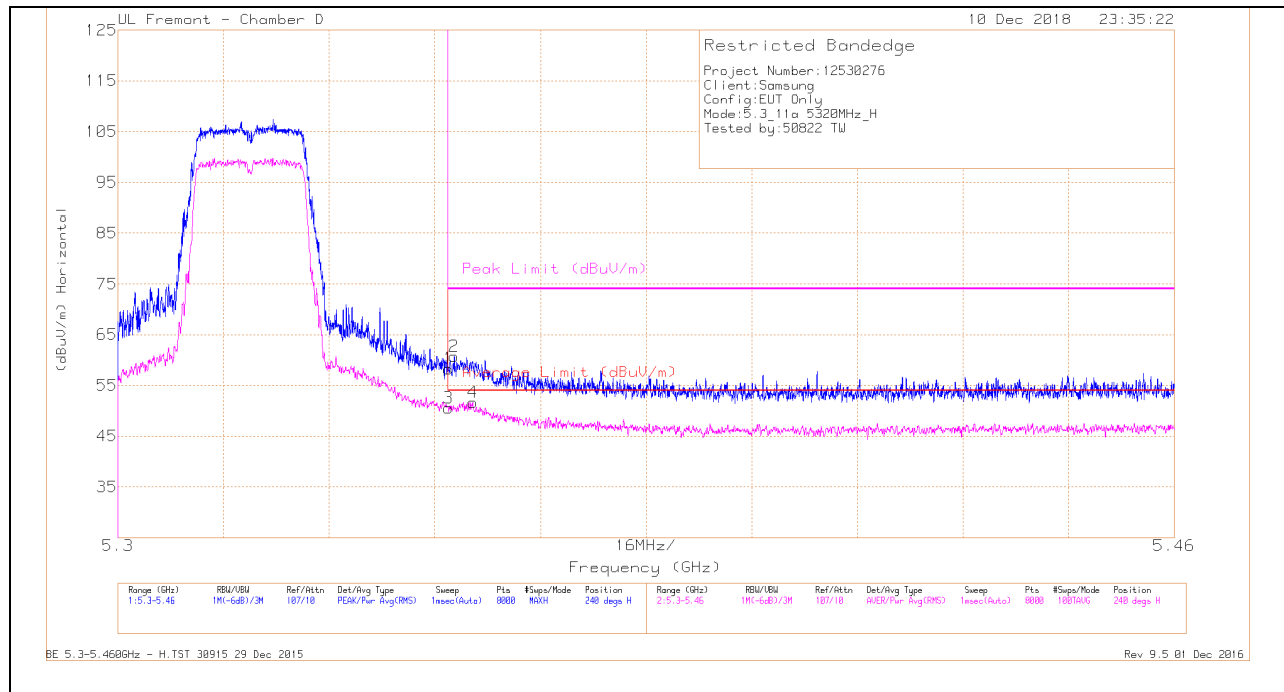
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

### BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

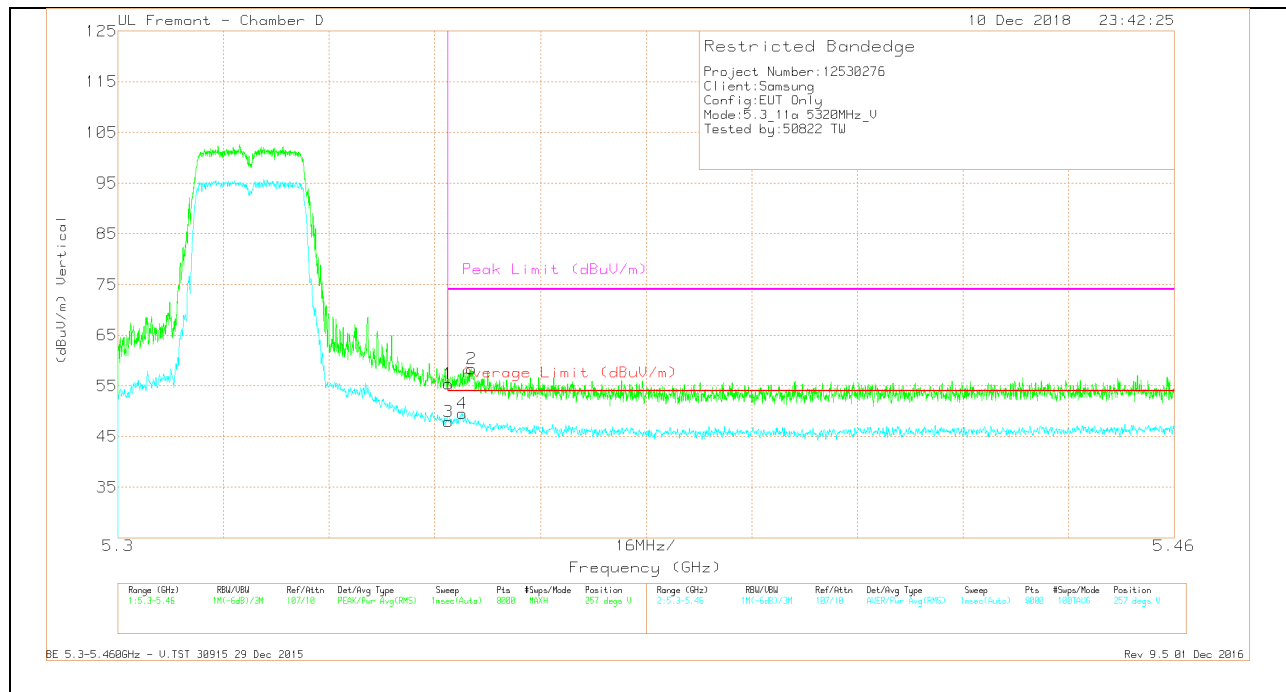
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.35          | 41.1                 | Pk  | 34.6           | -17.4                | 0            | 58.3                       | -                      | -           | 74                  | -15.7          | 240             | 125         | H        |
| 3      | * 5.35          | 33.12                | RMS | 34.6           | -17.4                | 0.23         | 50.55                      | 54                     | -3.45       | -                   | -              | 240             | 125         | H        |
| 2      | * 5.351         | 43.49                | Pk  | 34.6           | -17.4                | 0            | 60.69                      | -                      | -           | 74                  | -13.31         | 240             | 125         | H        |
| 4      | * 5.354         | 34.45                | RMS | 34.5           | -17.5                | 0.23         | 51.68                      | 54                     | -2.32       | -                   | -              | 240             | 125         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 38.18                | Pk  | 34.6           | -17.4               | 0            | 55.38                      | -                      | -           | 74                  | -18.62         | 257            | 206         | V        |
| 3      | * 5.35          | 30.42                | RMS | 34.6           | -17.4               | 0.23         | 47.85                      | 54                     | -6.15       | -                   | -              | 257            | 206         | V        |
| 4      | * 5.352         | 32.09                | RMS | 34.6           | -17.4               | 0.23         | 49.52                      | 54                     | -4.48       | -                   | -              | 257            | 206         | V        |
| 2      | * 5.354         | 41.27                | Pk  | 34.5           | -17.4               | 0            | 58.37                      | -                      | -           | 74                  | -15.63         | 257            | 206         | V        |

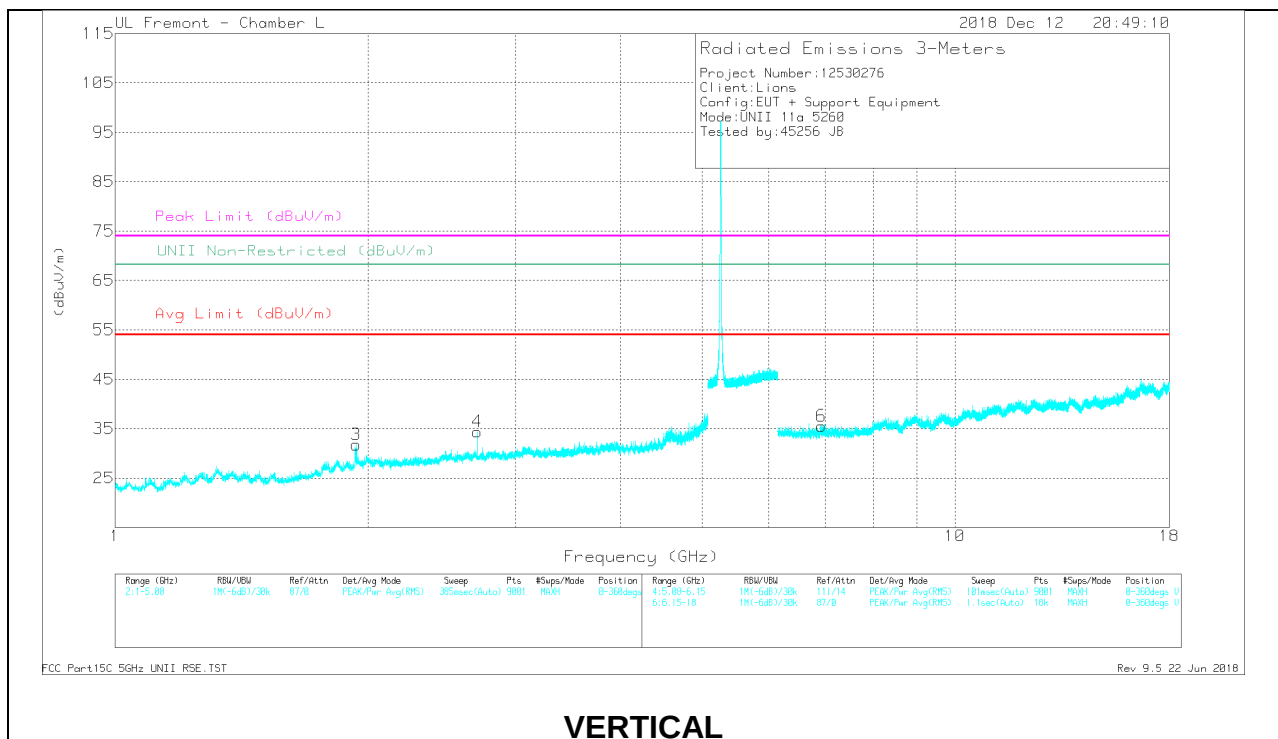
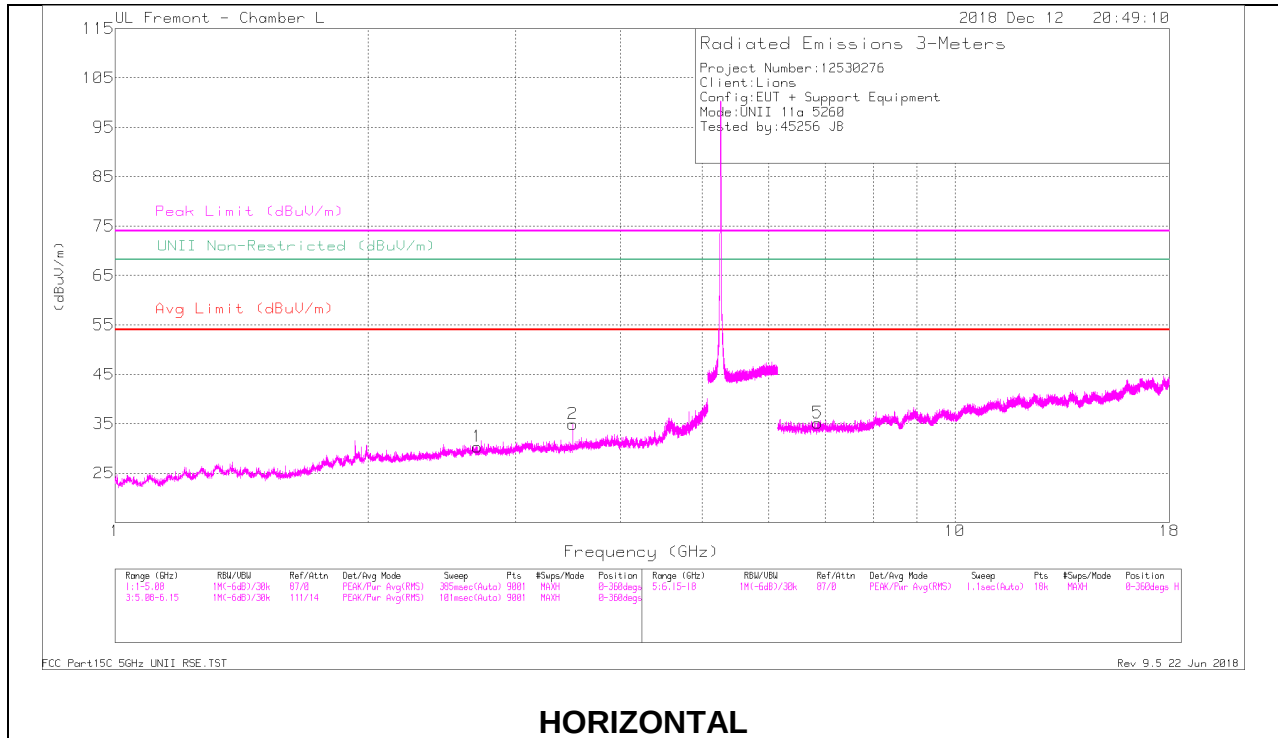
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

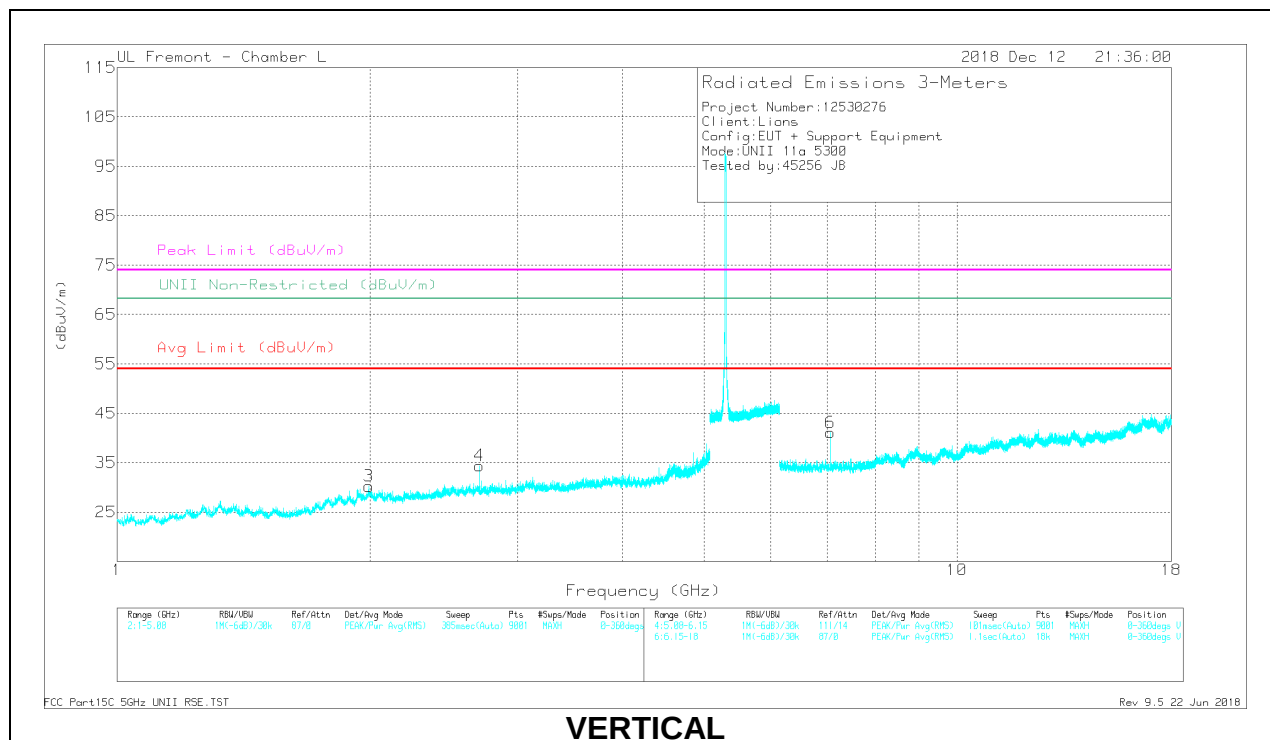
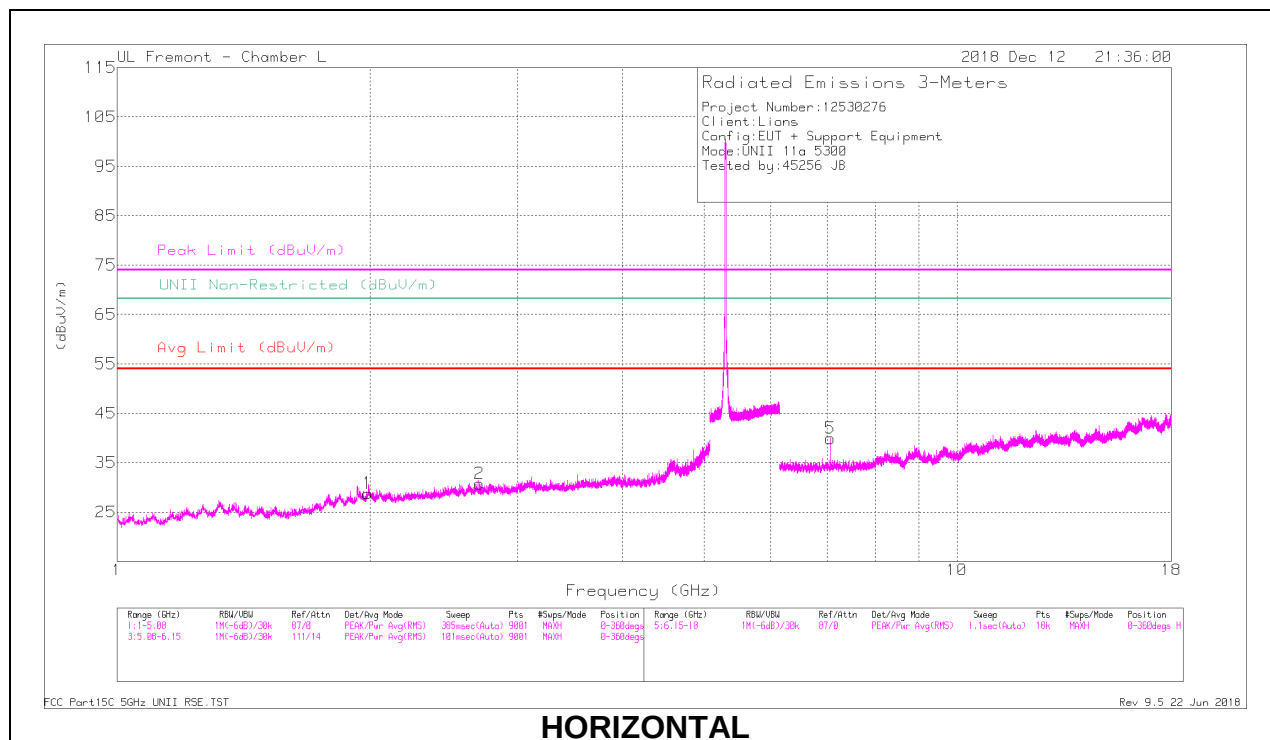
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/FHz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avs Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRI Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.698         | 38.02                | PK-U | 32.6              | -32.1               | 0            | 38.52                      | -                  | -           | 74                  | -35.48         | -                            | -              | 155            | 182         | H        |
| * 2.7           | 28.87                | ADR  | 32.6              | -32.1               | 0.23         | 29.6                       | 54                 | -24.4       | -                   | -              | -                            | -              | 155            | 182         | H        |
| * 3.507         | 38.22                | PK-U | 33                | -31                 | 0            | 40.22                      | -                  | -           | 74                  | -33.78         | -                            | -              | 270            | 118         | H        |
| * 3.507         | 28.16                | ADR  | 33                | -31                 | 0.23         | 30.39                      | 54                 | -23.61      | -                   | -              | -                            | -              | 270            | 118         | H        |
| * 2.7           | 38.23                | PK-U | 32.6              | -32.1               | 0            | 38.73                      | -                  | -           | 74                  | -35.27         | -                            | -              | 245            | 122         | V        |
| * 2.7           | 31.72                | ADR  | 32.6              | -32.1               | 0.23         | 32.45                      | 54                 | -21.55      | -                   | -              | -                            | -              | 245            | 122         | V        |
| 1.938           | 41.4                 | PK-U | 31.4              | -33.5               | 0            | 39.3                       | -                  | -           | -                   | -              | 68.2                         | -28.9          | 31             | 190         | V        |
| 6.865           | 33.31                | PK-U | 35.6              | -26.3               | 0            | 42.61                      | -                  | -           | -                   | -              | 68.2                         | -25.59         | 328            | 238         | H        |
| 6.938           | 31.71                | PK-U | 35.7              | -25                 | 0            | 42.41                      | -                  | -           | -                   | -              | 68.2                         | -25.79         | 329            | 375         | 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

## MID CHANNEL RESULTS



## RADIATED EMISSIONS

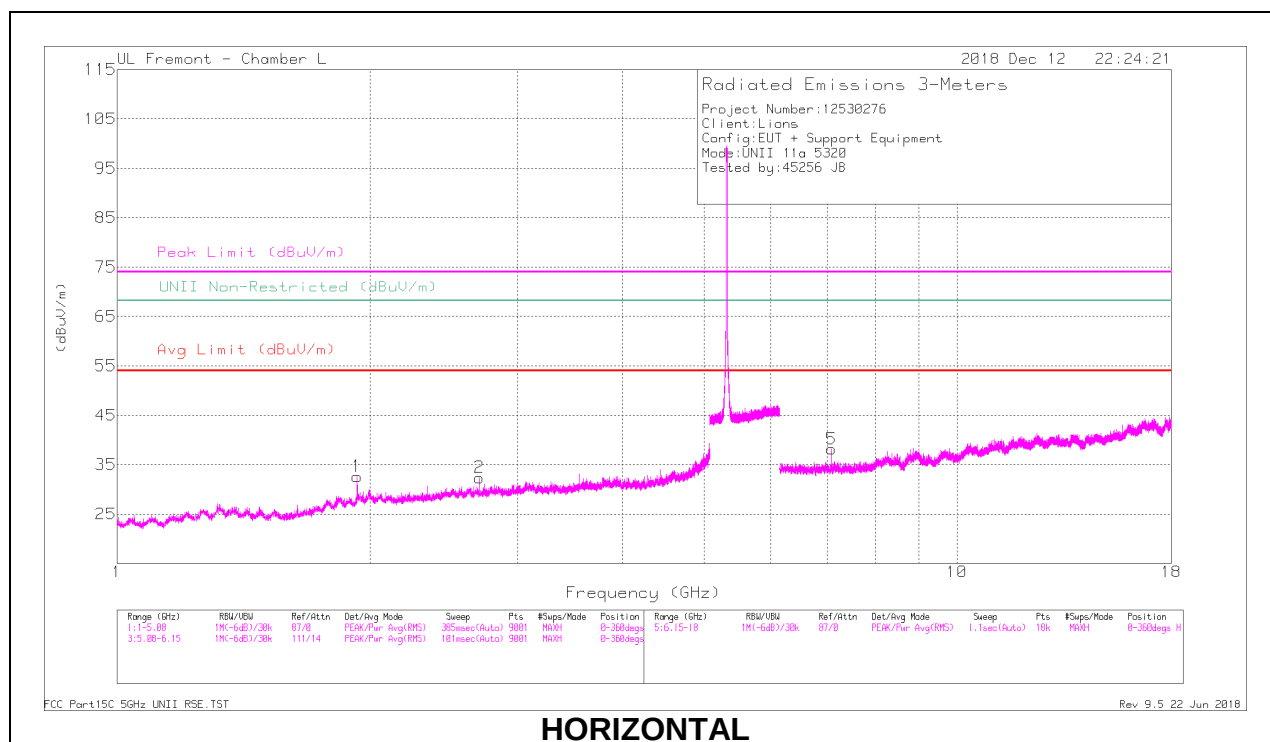
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.92                | PK-U | 32.6              | -32.1                | 0            | 38.42                      | -                  | -           | 74                  | -35.58         | -                             | -              | 154            | 176         | H        |
| * 2.7           | 29.21                | ADR  | 32.6              | -32.1                | 0.23         | 29.94                      | 54                 | -24.06      | -                   | -              | -                             | -              | 154            | 176         | H        |
| 1.987           | 38.31                | PK-U | 31.6              | -33                  | 0            | 36.91                      | -                  | -           | -                   | -              | 68.2                          | -31.29         | 280            | 113         | H        |
| * 2.7           | 39.21                | PK-U | 32.6              | -32.1                | 0            | 39.71                      | -                  | -           | 74                  | -34.29         | -                             | -              | 237            | 106         | V        |
| * 2.7           | 33.88                | ADR  | 32.6              | -32.1                | 0.23         | 34.61                      | 54                 | -19.39      | -                   | -              | -                             | -              | 237            | 106         | V        |
| 1.994           | 38.33                | PK-U | 31.7              | -33                  | 0            | 37.03                      | -                  | -           | -                   | -              | 68.2                          | -31.17         | 135            | 189         | V        |
| 7.067           | 35                   | PK-U | 35.7              | -26.2                | 0            | 44.5                       | -                  | -           | -                   | -              | 68.2                          | -23.7          | 185            | 148         | H        |
| 7.067           | 35.54                | PK-U | 35.7              | -26.2                | 0            | 45.04                      | -                  | -           | -                   | -              | 68.2                          | -23.16         | 132            | 176         | V        |

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

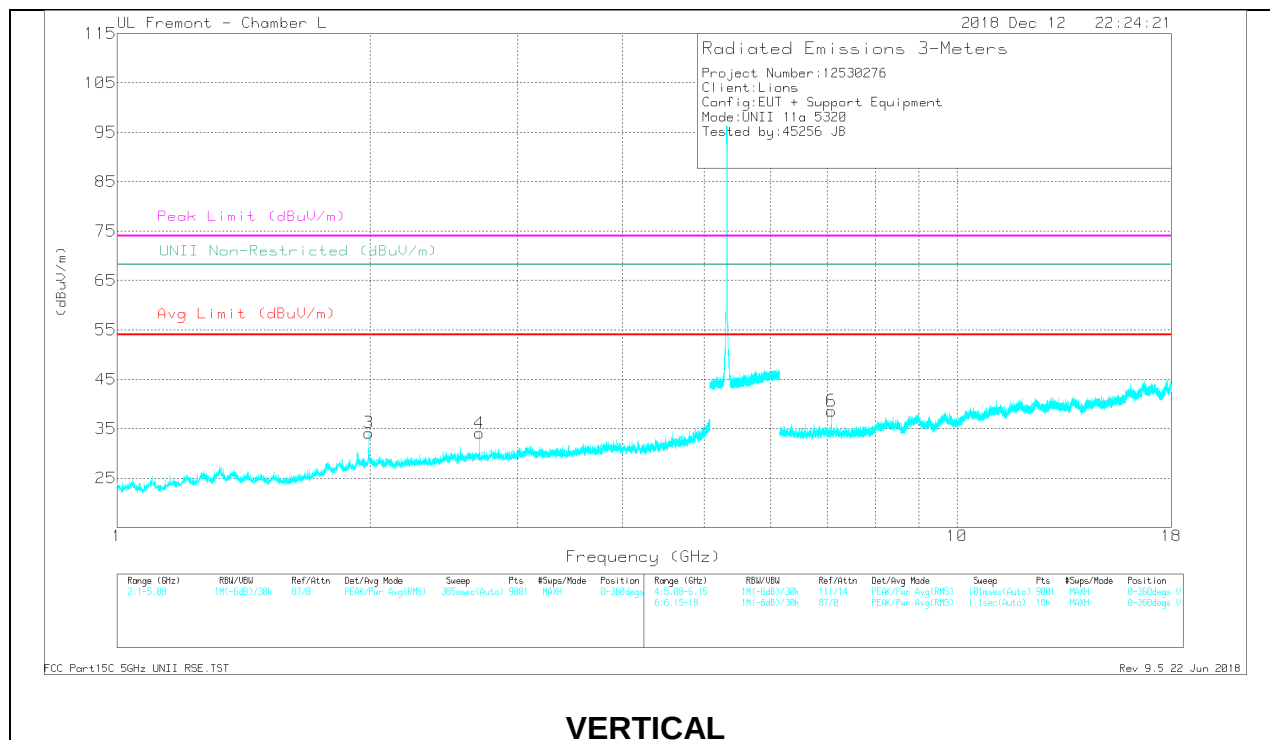
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## HIGH CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.38                | PK-U | 32.6              | -32.1                | 0            | 37.88                      | -                  | -           | 74                  | -36.12         | -                             | -              | 213            | 114         | H        |
| * 2.7           | 28.97                | ADR  | 32.6              | -32.1                | 0.23         | 29.7                       | 54                 | -24.3       | -                   | -              | -                             | -              | 213            | 114         | H        |
| 1.931           | 39.85                | PK-U | 31.3              | -33.5                | 0            | 37.65                      | -                  | -           | -                   | -              | 68.2                          | -30.55         | 232            | 188         | H        |
| * 2.7           | 39.03                | PK-U | 32.6              | -32.1                | 0            | 39.53                      | -                  | -           | 74                  | -34.47         | -                             | -              | 239            | 113         | V        |
| * 2.7           | 33.13                | ADR  | 32.6              | -32.1                | 0.23         | 33.86                      | 54                 | -20.14      | -                   | -              | -                             | -              | 239            | 113         | V        |
| 1.993           | 39.09                | PK-U | 31.7              | -33                  | 0            | 37.79                      | -                  | -           | -                   | -              | 68.2                          | -30.41         | 134            | 164         | V        |
| 7.093           | 33.82                | PK-U | 35.7              | -26                  | 0            | 43.52                      | -                  | -           | -                   | -              | 68.2                          | -24.68         | 114            | 194         | H        |
| 7.093           | 35.04                | PK-U | 35.7              | -26                  | 0            | 44.74                      | -                  | -           | -                   | -              | 68.2                          | -23.46         | 136            | 149         | V        |

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

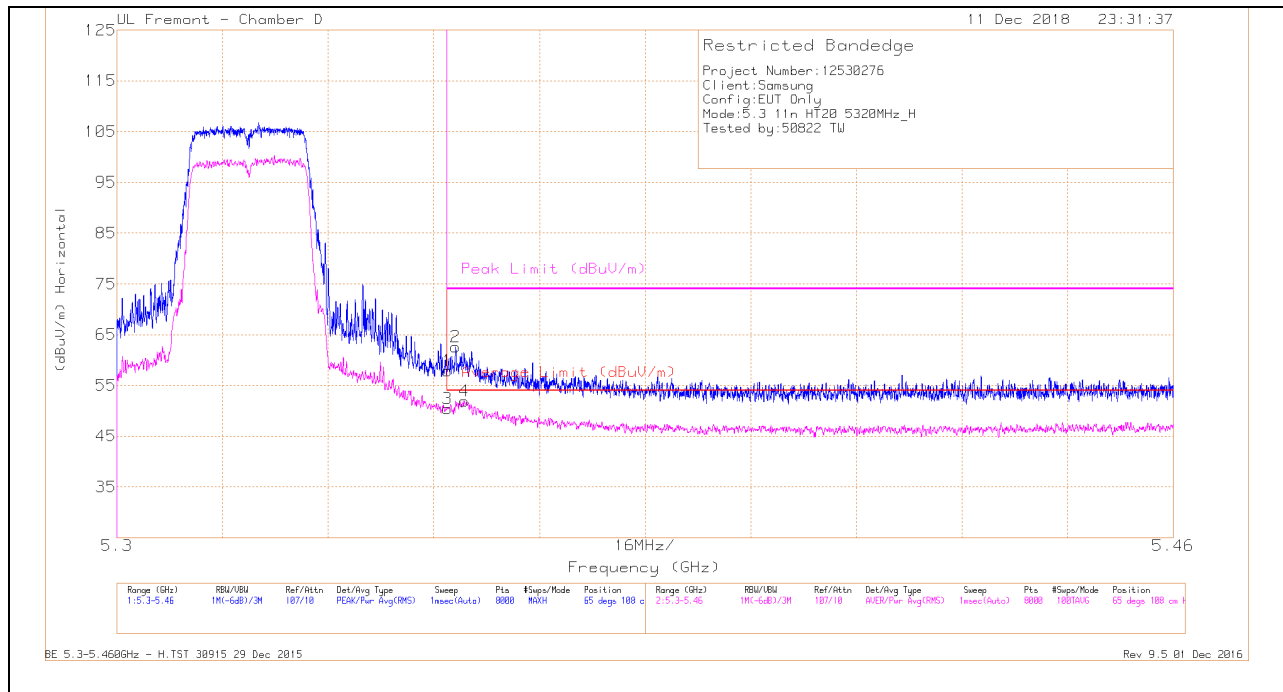
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

### BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

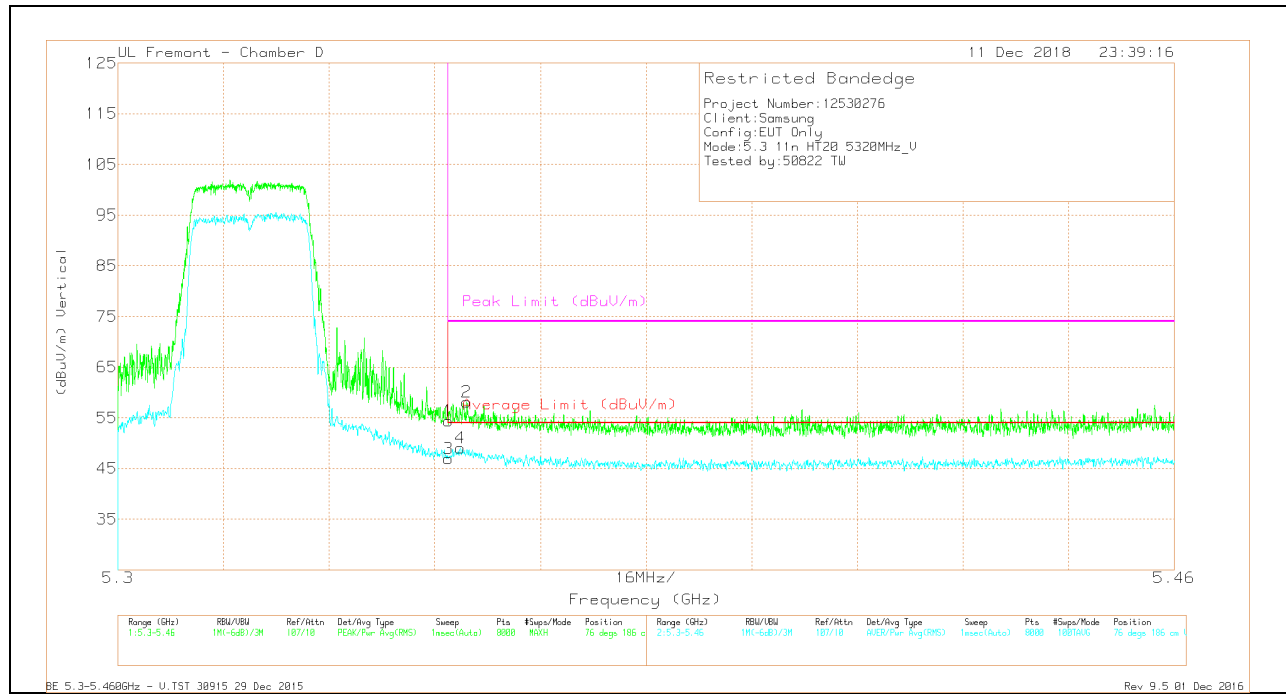
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 40.67                | Pk  | 34.6           | -17.4                | 0            | 57.87                      | -                      | -           | 74                  | -16.13         | 65             | 108         | H        |
| 3      | * 5.35          | 32.96                | RMS | 34.6           | -17.4                | 0.24         | 50.4                       | 54                     | -3.6        | -                   | -              | 65             | 108         | H        |
| 2      | * 5.351         | 45.4                 | Pk  | 34.6           | -17.4                | 0            | 62.6                       | -                      | -           | 74                  | -11.4          | 65             | 108         | H        |
| 4      | * 5.353         | 34.46                | RMS | 34.6           | -17.4                | 0.24         | 51.9                       | 54                     | -2.1        | -                   | -              | 65             | 108         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.35          | 37.17                | Pk  | 34.6           | -17.4               | 0            | 54.37                      | -                      | -           | 74                  | -19.63         | 76             | 186         | V        |
| 3      | * 5.35          | 29.5                 | RMS | 34.6           | -17.4               | 0.24         | 46.94                      | 54                     | -7.06       | -                   | -              | 76             | 186         | V        |
| 4      | * 5.352         | 31.62                | RMS | 34.6           | -17.4               | 0.24         | 49.06                      | 54                     | -4.94       | -                   | -              | 76             | 186         | V        |
| 2      | * 5.353         | 40.95                | Pk  | 34.6           | -17.4               | 0            | 58.15                      | -                      | -           | 74                  | -15.85         | 76             | 186         | V        |

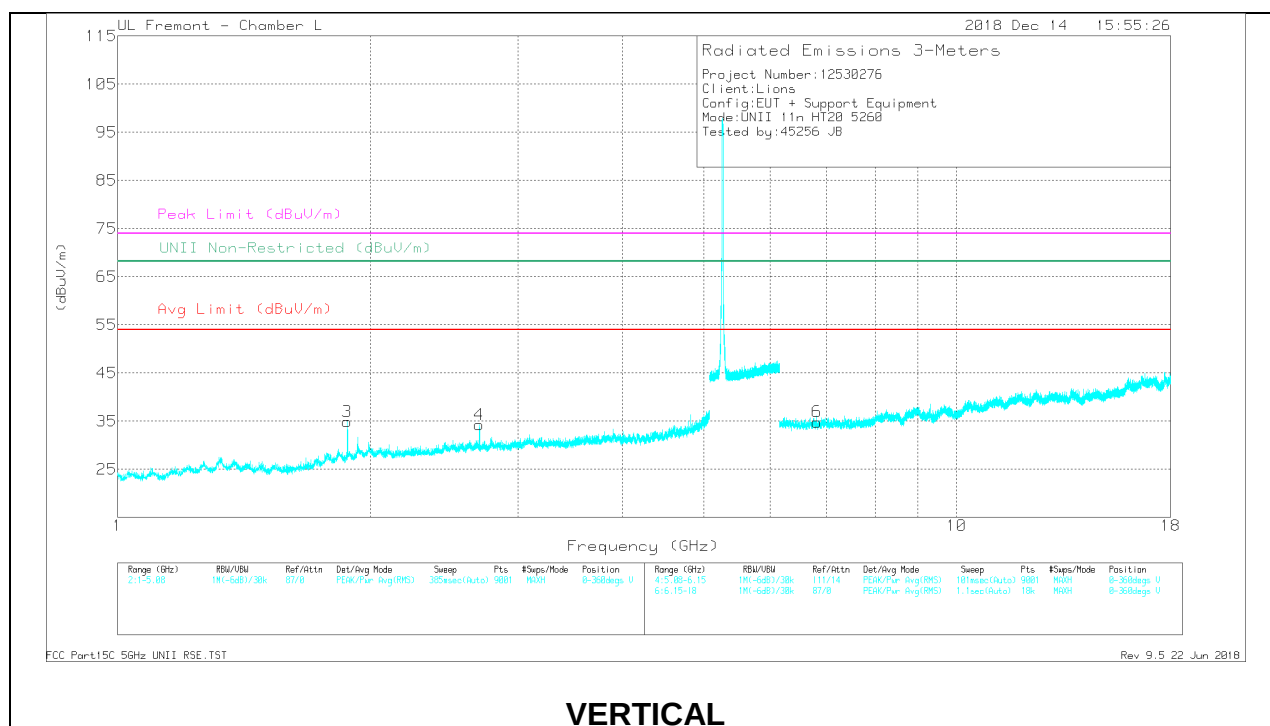
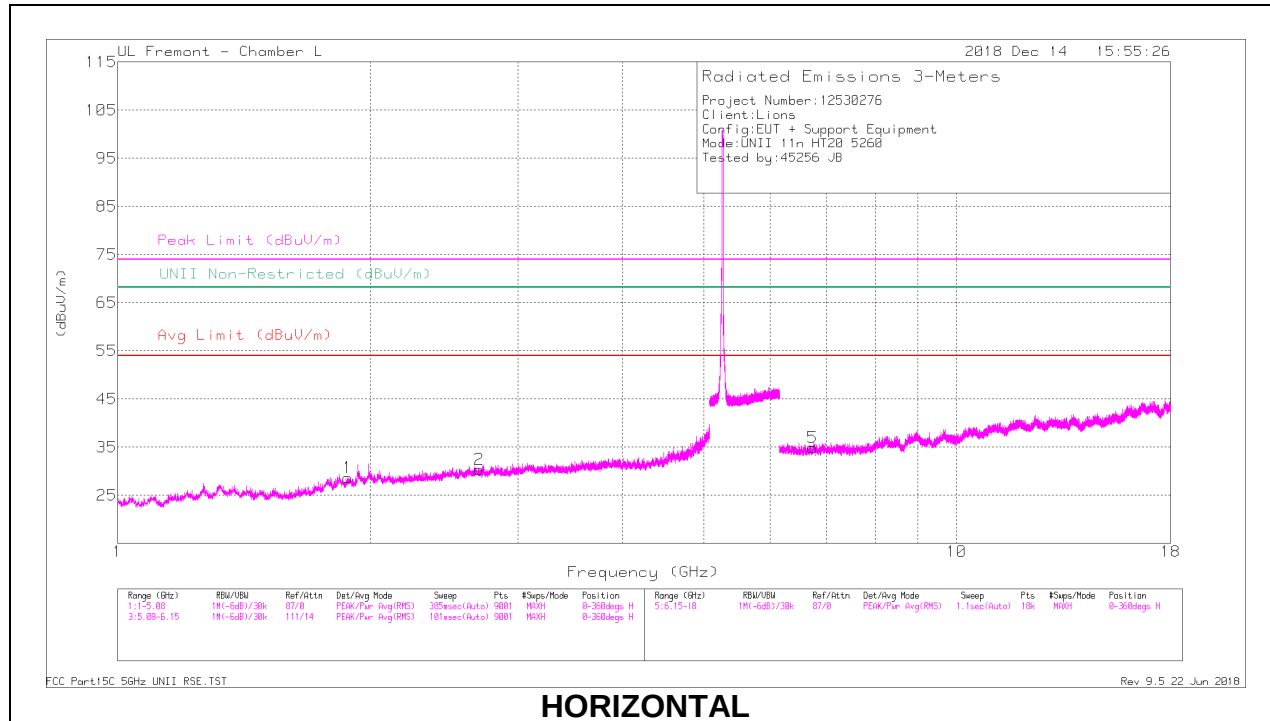
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

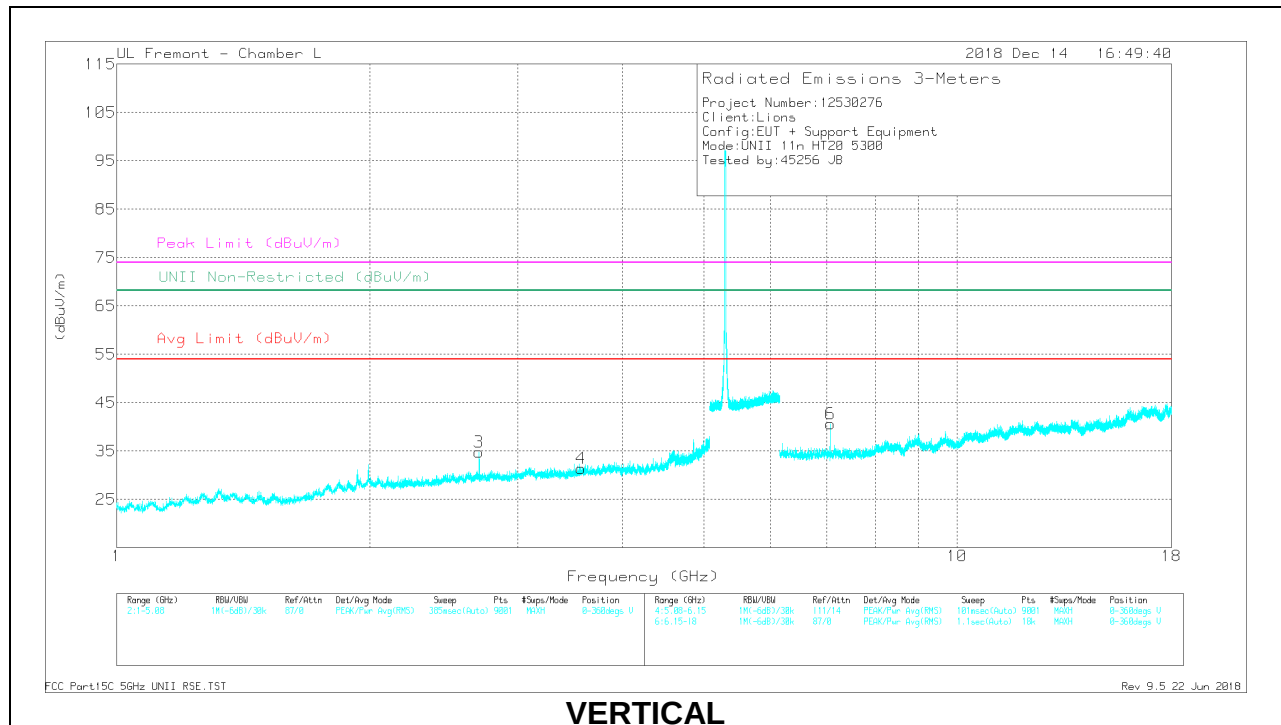
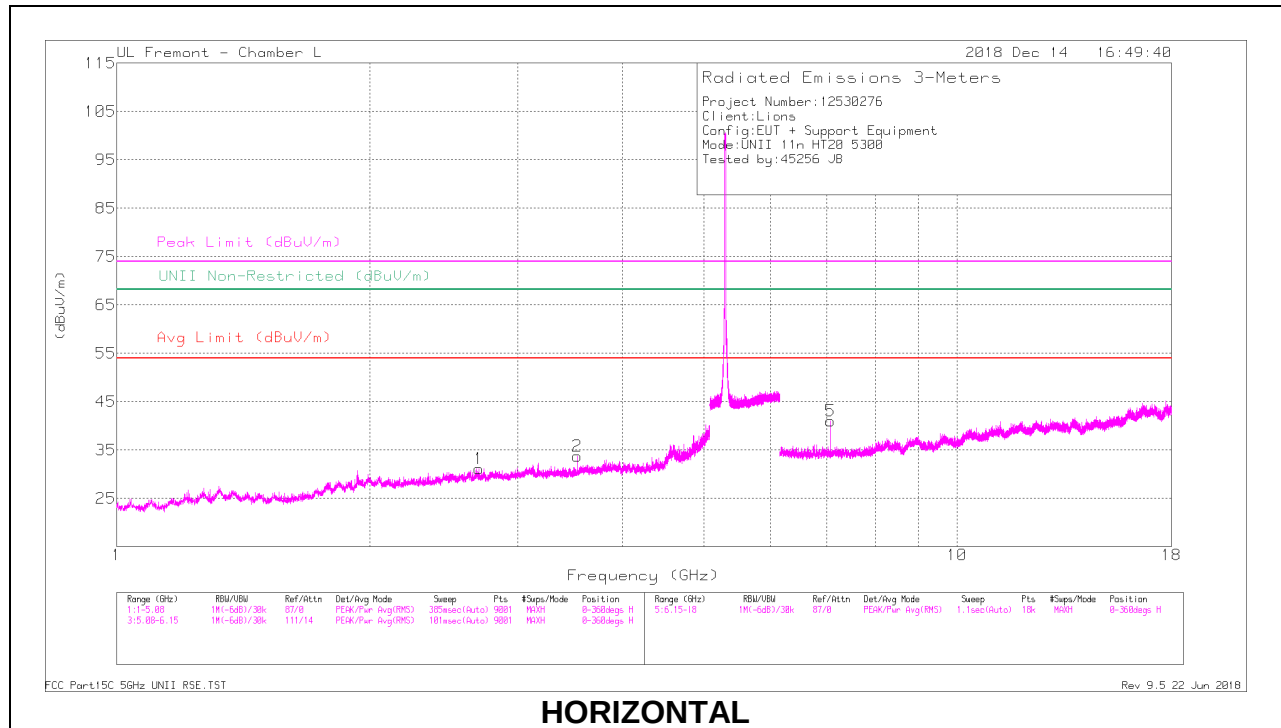
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 36.88                | PK-U | 32.6              | -32.1               | 0            | 37.38                      | -                  | -           | 74                  | -36.62         | -                            | -              | 220            | 158         | H        |
| * 2.7           | 28.46                | ADR  | 32.6              | -32.1               | 0.24         | 29.2                       | 54                 | -24.8       | -                   | -              | -                            | -              | 220            | 158         | H        |
| 1.878           | 39.16                | PK-U | 31                | -33.8               | 0            | 36.36                      | -                  | -           | -                   | -              | 68.2                         | -31.84         | 121            | 179         | H        |
| * 2.7           | 39.77                | PK-U | 32.6              | -32.1               | 0            | 40.27                      | -                  | -           | 74                  | -33.73         | -                            | -              | 202            | 193         | V        |
| * 2.7           | 33.35                | ADR  | 32.6              | -32.1               | 0.24         | 34.09                      | 54                 | -19.91      | -                   | -              | -                            | -              | 202            | 193         | V        |
| 1.88            | 39.09                | PK-U | 31                | -33.7               | 0            | 36.39                      | -                  | -           | -                   | -              | 68.2                         | -31.81         | 210            | 371         | V        |
| 6.742           | 32.36                | PK-U | 35.7              | -26                 | 0            | 42.06                      | -                  | -           | -                   | -              | 68.2                         | -26.14         | 127            | 149         | H        |
| 6.817           | 32.06                | PK-U | 35.6              | -26                 | 0            | 41.66                      | -                  | -           | -                   | -              | 68.2                         | -26.54         | 353            | 305         | 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

## MID CHANNEL RESULTS



## RADIATED EMISSIONS

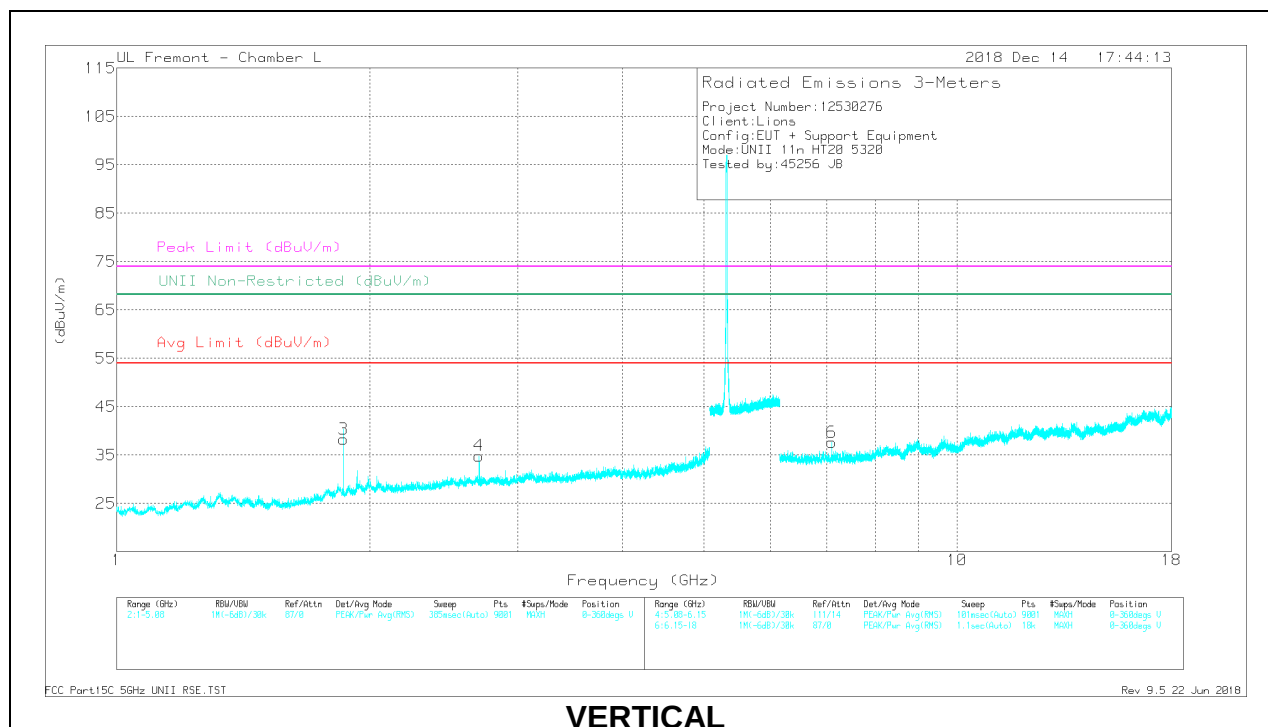
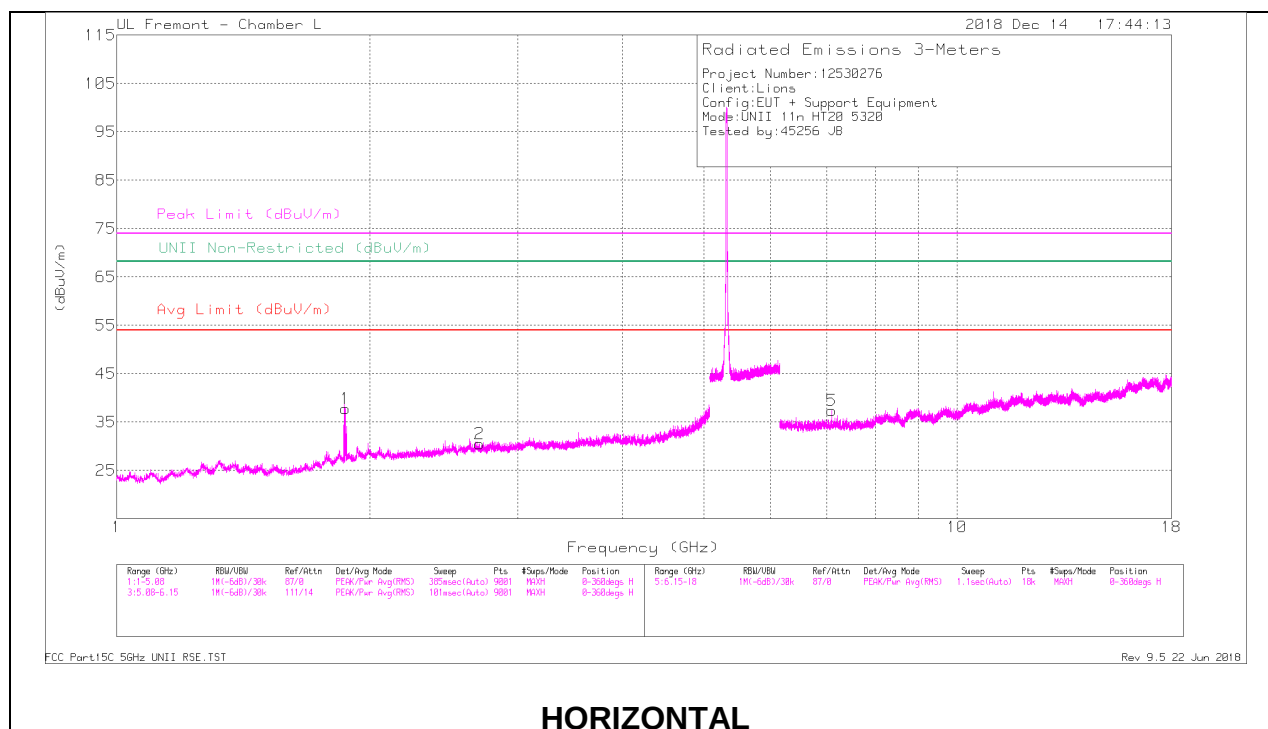
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.47                | PK-U | 32.6              | -32.1               | 0            | 37.97                      | -                  | -           | 74                  | -36.03         | -                            | -              | 288            | 109         | H        |
| * 2.7           | 29.72                | ADR  | 32.6              | -32.1               | 0.24         | 30.46                      | 54                 | -23.54      | -                   | -              | -                            | -              | 288            | 109         | H        |
| * 3.533         | 38.05                | PK-U | 33.2              | -31                 | 0            | 40.25                      | -                  | -           | 74                  | -33.75         | -                            | -              | 120            | 137         | H        |
| * 3.533         | 28.98                | ADR  | 33.2              | -31                 | 0.24         | 31.42                      | 54                 | -22.58      | -                   | -              | -                            | -              | 120            | 137         | H        |
| * 2.7           | 38.29                | PK-U | 32.6              | -32.1               | 0            | 38.79                      | -                  | -           | 74                  | -35.21         | -                            | -              | 204            | 228         | V        |
| * 2.7           | 32.13                | ADR  | 32.6              | -32.1               | 0.24         | 32.87                      | 54                 | -21.13      | -                   | -              | -                            | -              | 204            | 228         | V        |
| * 3.573         | 36.47                | PK-U | 33.4              | -30.8               | 0            | 39.07                      | -                  | -           | 74                  | -34.93         | -                            | -              | 61             | 148         | V        |
| * 3.57          | 26.04                | ADR  | 33.4              | -30.9               | 0.24         | 28.78                      | 54                 | -25.22      | -                   | -              | -                            | -              | 61             | 148         | V        |
| 7.067           | 35.61                | PK-U | 35.7              | -26.2               | 0            | 45.11                      | -                  | -           | -                   | -              | 68.2                         | -23.09         | 123            | 192         | H        |
| 7.067           | 35.31                | PK-U | 35.7              | -26.2               | 0            | 44.81                      | -                  | -           | -                   | -              | 68.2                         | -23.39         | 139            | 159         | 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

## HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC429A (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.703         | 37.05                | PK-U | 32.6              | -32.1                | 0            | 37.55                      | -                  | -           | 74                  | -36.45         | -                            | -              | 212            | 188         | H        |
| * 2.703         | 27.32                | ADR  | 32.6              | -32.1                | 0.24         | 28.06                      | 54                 | -25.94      | -                   | -              | -                            | -              | 212            | 188         | H        |
| 1.869           | 37.58                | PK-U | 30.9              | -33.6                | 0            | 34.88                      | -                  | -           | -                   | -              | 68.2                         | -33.32         | 243            | 198         | H        |
| * 2.7           | 38.62                | PK-U | 32.6              | -32.1                | 0            | 39.12                      | -                  | -           | 74                  | -34.88         | -                            | -              | 200            | 194         | V        |
| * 2.7           | 32.92                | ADR  | 32.6              | -32.1                | 0.24         | 33.66                      | 54                 | -20.34      | -                   | -              | -                            | -              | 200            | 194         | V        |
| 1.86            | 37.98                | PK-U | 30.9              | -33.5                | 0            | 35.38                      | -                  | -           | -                   | -              | 68.2                         | -32.82         | 189            | 184         | V        |
| 7.093           | 34.49                | PK-U | 35.7              | -26                  | 0            | 44.19                      | -                  | -           | -                   | -              | 68.2                         | -24.01         | 189            | 142         | H        |
| 7.093           | 34.06                | PK-U | 35.7              | -26                  | 0            | 43.76                      | -                  | -           | -                   | -              | 68.2                         | -24.44         | 137            | 136         | V        |

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

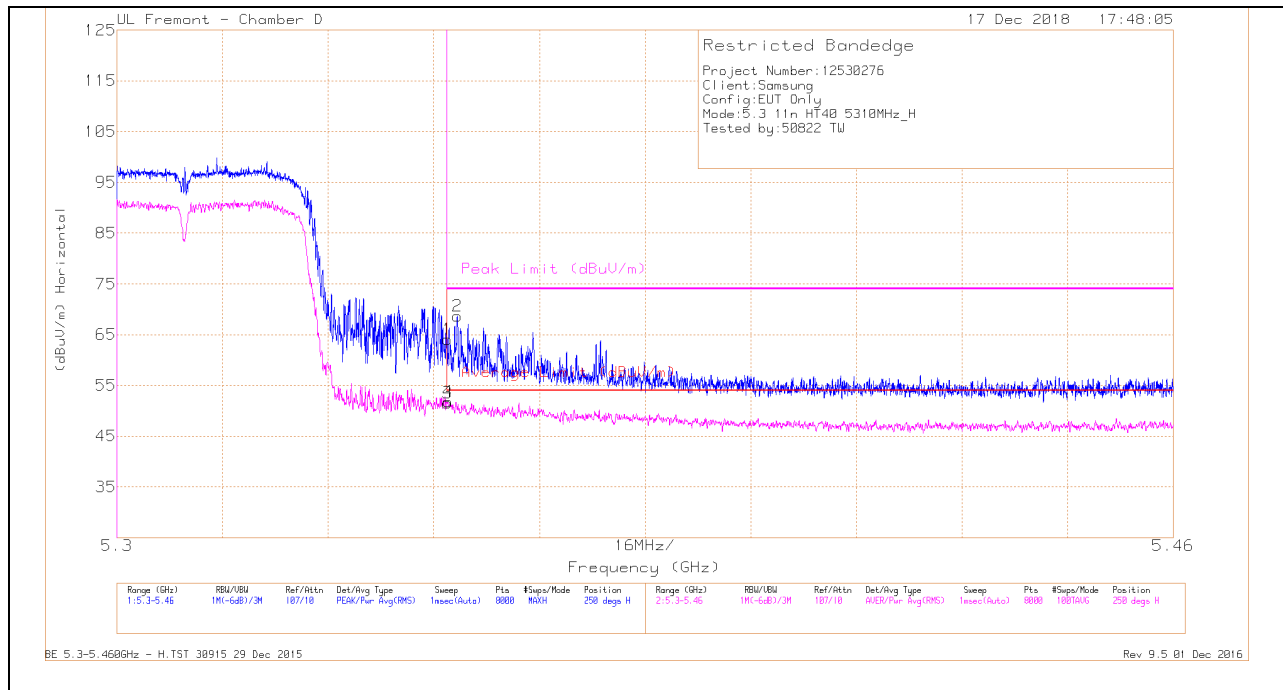
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.7. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND

### BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

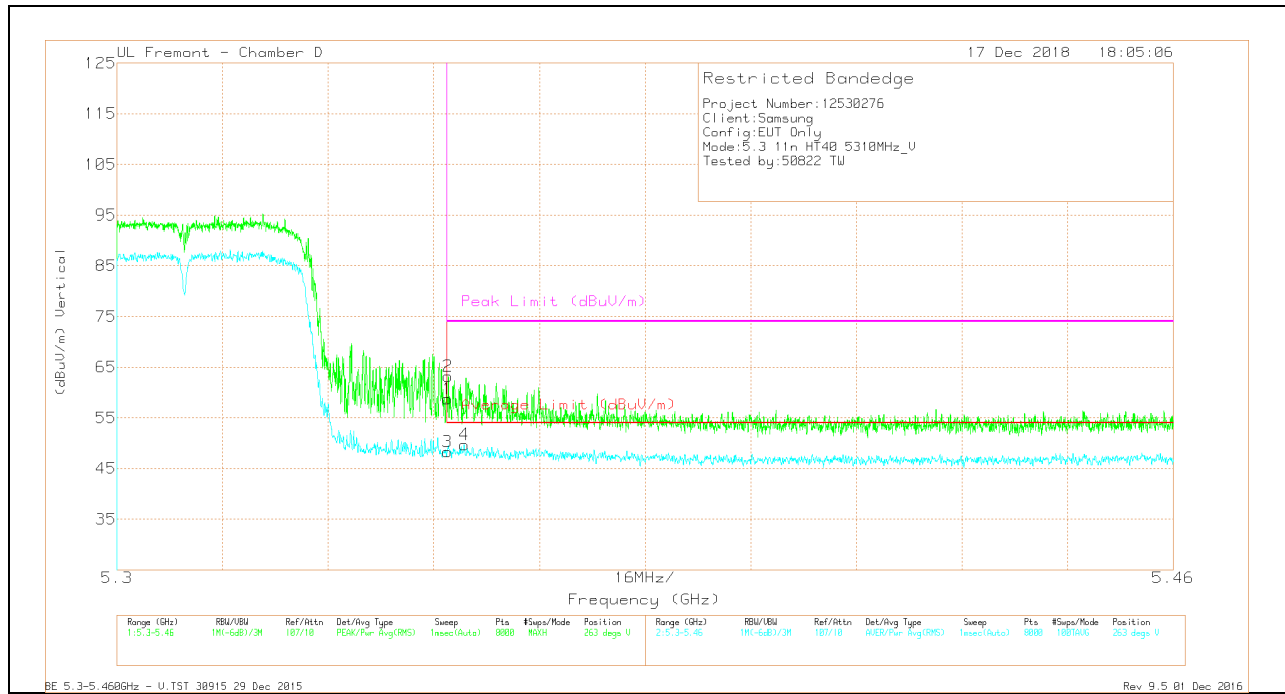
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.35          | 46.83                | Pk  | 34.6           | -17.4                | 0            | 64.03                      | -                      | -           | 74                  | -9.97          | 250             | 133         | H        |
| 2      | * 5.352         | 51.49                | Pk  | 34.6           | -17.4                | 0            | 68.69                      | -                      | -           | 74                  | -5.31          | 250             | 133         | H        |
| 3      | * 5.35          | 33.65                | RMS | 34.6           | -17.4                | 0.58         | 51.43                      | 54                     | -2.57       | -                   | -              | 250             | 133         | H        |
| 4      | * 5.35          | 33.95                | RMS | 34.6           | -17.4                | 0.58         | 51.73                      | 54                     | -2.27       | -                   | -              | 250             | 133         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/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      | * 5.35          | 41.56                | Pk  | 34.6           | -17.4               | 0            | 58.76                      | -                      | -           | 74                  | -15.24         | 263            | 182         | V        |
| 2      | * 5.35          | 45.97                | Pk  | 34.6           | -17.4               | 0            | 63.17                      | -                      | -           | 74                  | -10.83         | 263            | 182         | V        |
| 3      | * 5.35          | 30.44                | RMS | 34.6           | -17.4               | 0.58         | 48.22                      | 54                     | -5.78       | -                   | -              | 263            | 182         | V        |
| 4      | * 5.353         | 31.9                 | RMS | 34.6           | -17.4               | 0.58         | 49.68                      | 54                     | -4.32       | -                   | -              | 263            | 182         | V        |

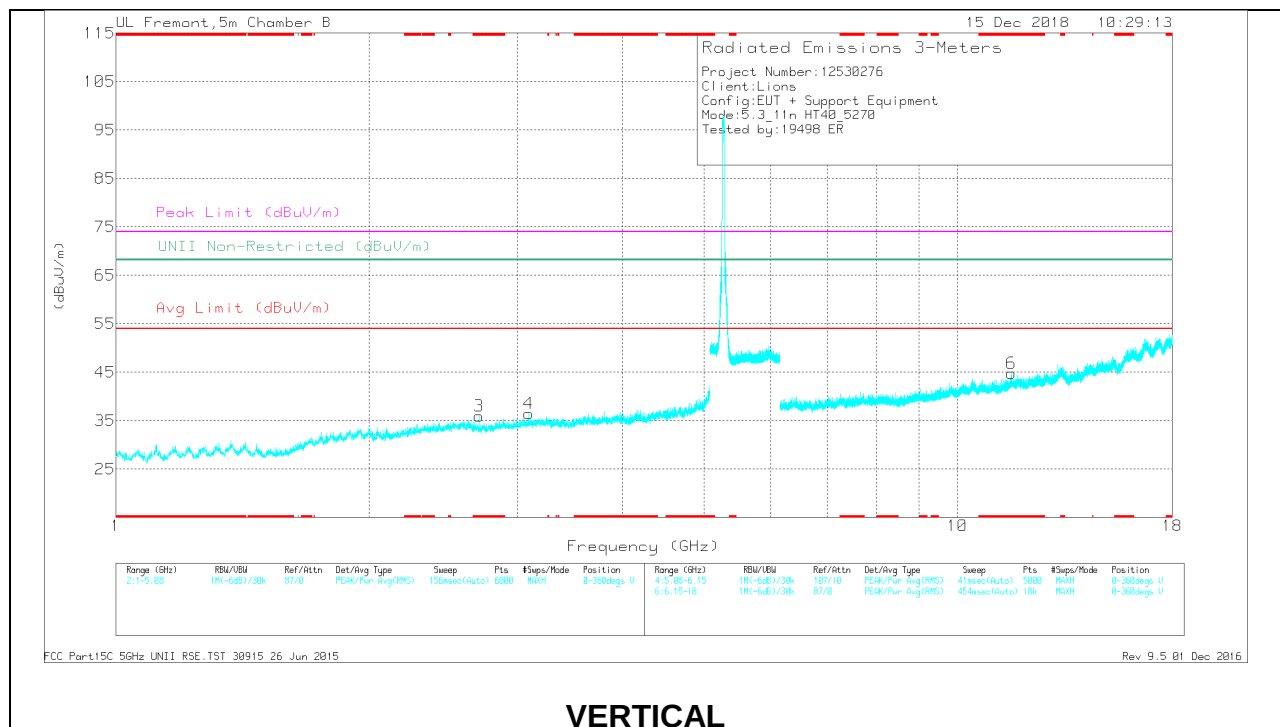
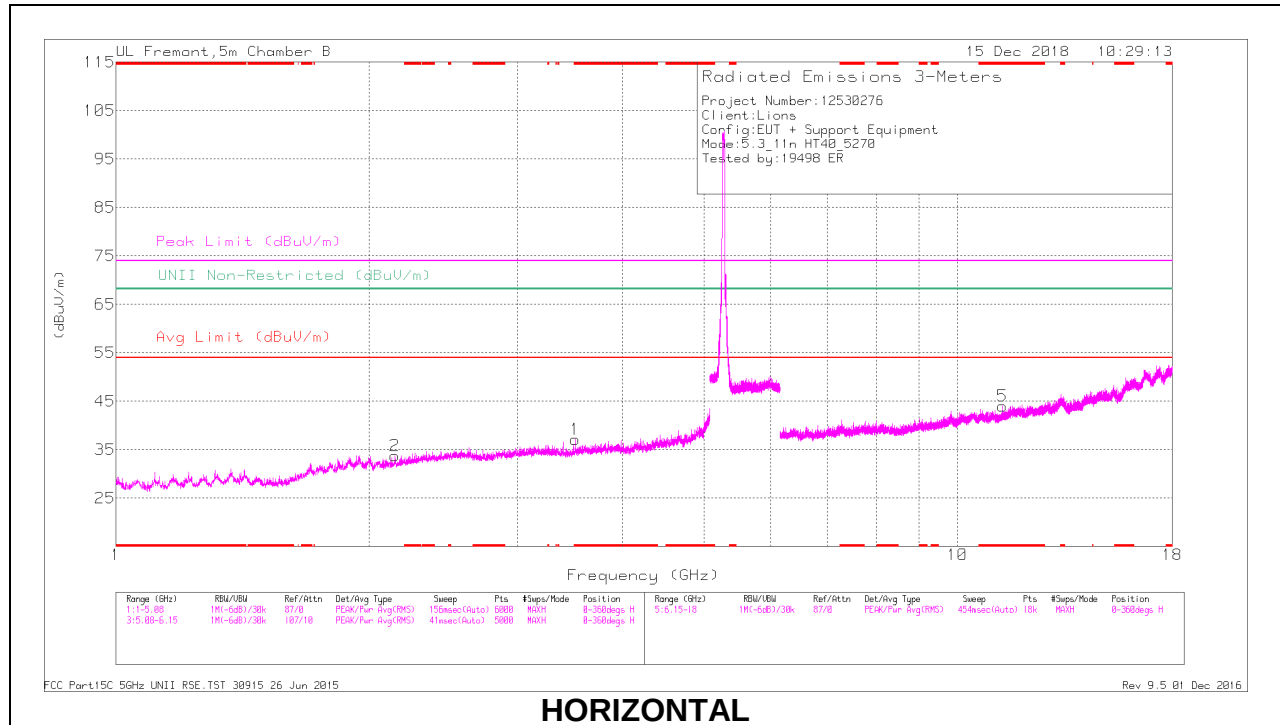
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

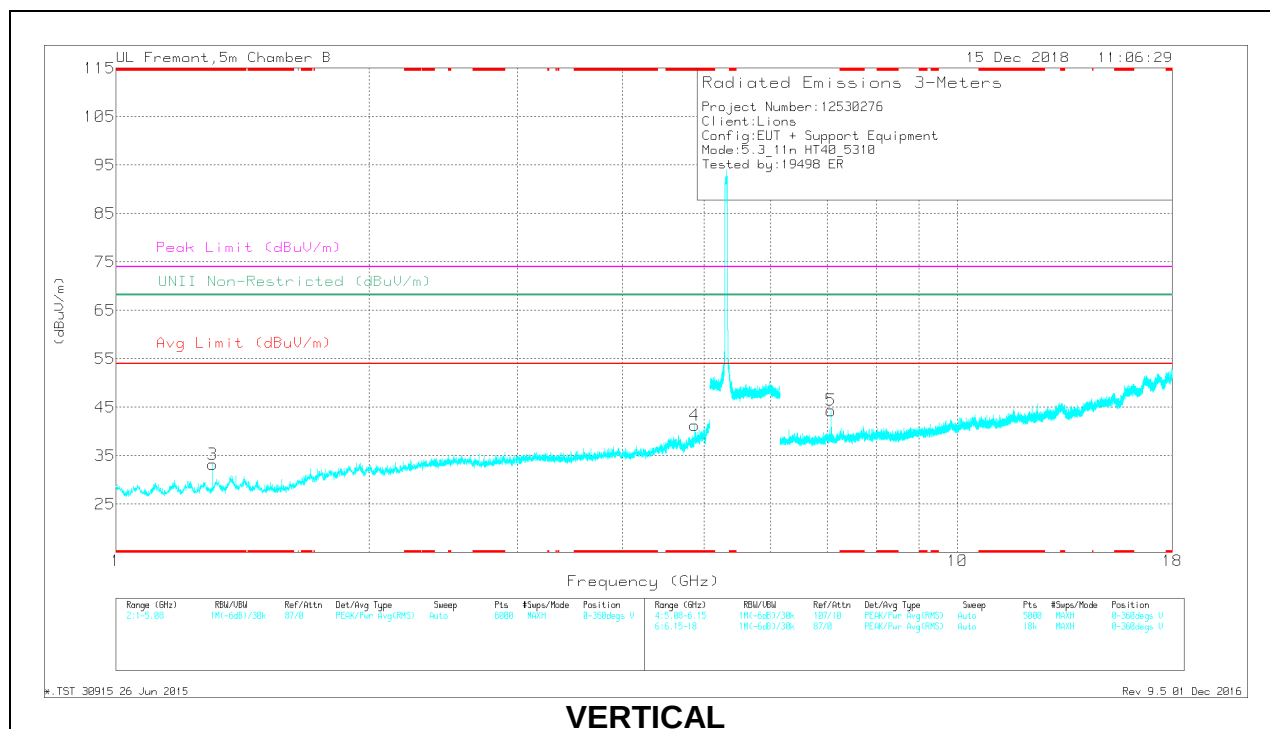
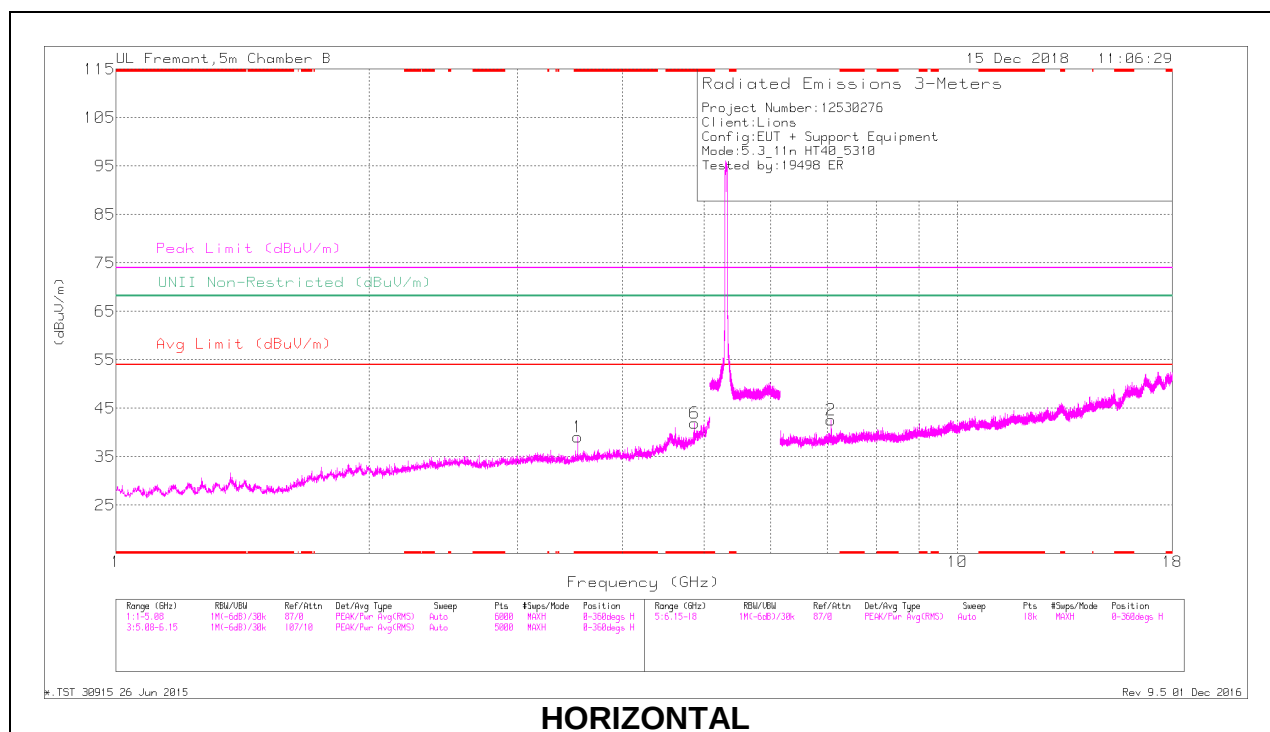
| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF T863 (dB/m) | Amp/Cbl/Ftr/Fed (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unli Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 3.513         | 41.94                | PK-U | 33             | -30.7                | 0            | 44.24                      | -                  | -           | 74                  | -29.76         | -                            | -              | 207            | 136         | H        |
| * 3.513         | 31.85                | ADR  | 33             | -30.7                | 0.58         | 34.73                      | 54                 | -19.27      | -                   | -              | -                            | -              | 207            | 136         | H        |
| * 2.7           | 42.04                | PK-U | 32.3           | -31.8                | 0            | 42.54                      | -                  | -           | 74                  | -31.46         | -                            | -              | 173            | 109         | V        |
| * 2.7           | 33.7                 | ADR  | 32.3           | -31.8                | 0.58         | 34.78                      | 54                 | -19.22      | -                   | -              | -                            | -              | 173            | 109         | V        |
| * 11.304        | 32.83                | PK-U | 38.2           | -22.3                | 0            | 48.73                      | -                  | -           | 74                  | -25.27         | -                            | -              | 100            | 161         | H        |
| * 11.303        | 21.96                | ADR  | 38.2           | -22.2                | 0.58         | 38.54                      | 54                 | -15.46      | -                   | -              | -                            | -              | 100            | 161         | H        |
| * 11.593        | 33.27                | PK-U | 38.6           | -21.7                | 0            | 50.17                      | -                  | -           | 74                  | -23.83         | -                            | -              | 252            | 261         | V        |
| * 11.594        | 21.25                | ADR  | 38.6           | -21.7                | 0.58         | 38.73                      | 54                 | -15.27      | -                   | -              | -                            | -              | 252            | 261         | V        |
| 2.146           | 40.87                | PK-U | 31.3           | -32.8                | 0            | 39.37                      | -                  | -           | -                   | -              | 68.2                         | -28.83         | 327            | 198         | H        |
| 3.094           | 40.6                 | PK-U | 33.3           | -31.7                | 0            | 42.2                       | -                  | -           | -                   | -              | 68.2                         | -26            | 158            | 131         | 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

## HIGH CHANNEL RESULTS



## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TR63 (dB/m) | Amp/CA/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unfil Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| * 3.54          | 41.94                | PK-U | 33.1           | -30.4               | 0            | 44.64                      | -                  | -           | 74                  | -29.36         | -                             | -              | 57             | 190         | H        |
| * 3.54          | 33.11                | ADR  | 33.1           | -30.4               | 0.58         | 36.39                      | 54                 | -17.61      | -                   | -              | -                             | -              | 57             | 190         | H        |
| * 4.868         | 44.81                | PK-U | 34.3           | -29.1               | 0            | 50.01                      | -                  | -           | 74                  | -23.99         | -                             | -              | 42             | 140         | H        |
| * 4.867         | 34.5                 | ADR  | 34.3           | -29.1               | 0.58         | 40.28                      | 54                 | -13.72      | -                   | -              | -                             | -              | 42             | 140         | H        |
| * 1.304         | 41.55                | PK-U | 28.4           | -34.1               | 0            | 35.85                      | -                  | -           | 74                  | -38.15         | -                             | -              | 179            | 245         | V        |
| * 1.303         | 29.27                | ADR  | 28.4           | -34.1               | 0.58         | 24.15                      | 54                 | -29.85      | -                   | -              | -                             | -              | 179            | 245         | V        |
| * 4.867         | 43.09                | PK-U | 34.3           | -29.1               | 0            | 48.29                      | -                  | -           | 74                  | -25.71         | -                             | -              | 72             | 201         | V        |
| * 4.867         | 33.07                | ADR  | 34.3           | -29.1               | 0.58         | 38.85                      | 54                 | -15.15      | -                   | -              | -                             | -              | 72             | 201         | V        |
| 7.08            | 40                   | PK-U | 36             | -27.3               | 0            | 48.7                       | -                  | -           | -                   | -              | 68.2                          | -19.5          | 59             | 188         | H        |
| 7.08            | 40.92                | PK-U | 36             | -27.3               | 0            | 49.62                      | -                  | -           | -                   | -              | 68.2                          | -18.58         | 70             | 151         | V        |

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

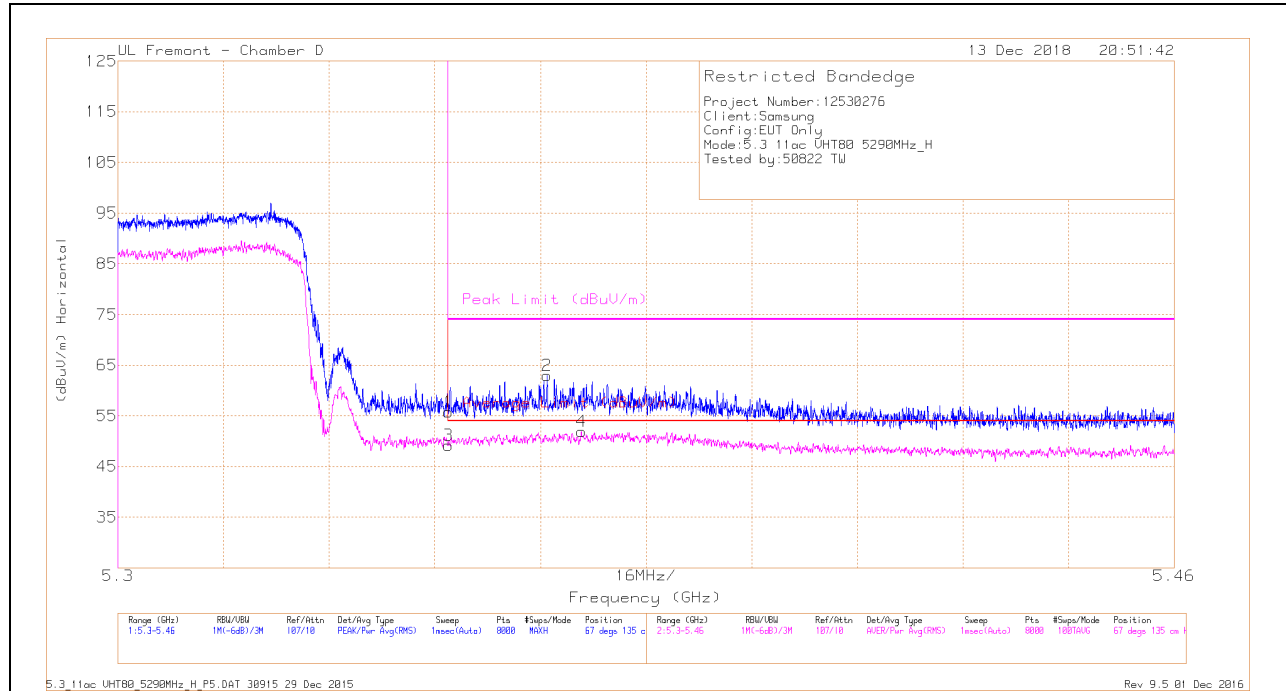
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.1.8. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

### BANDEDGE (MID CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

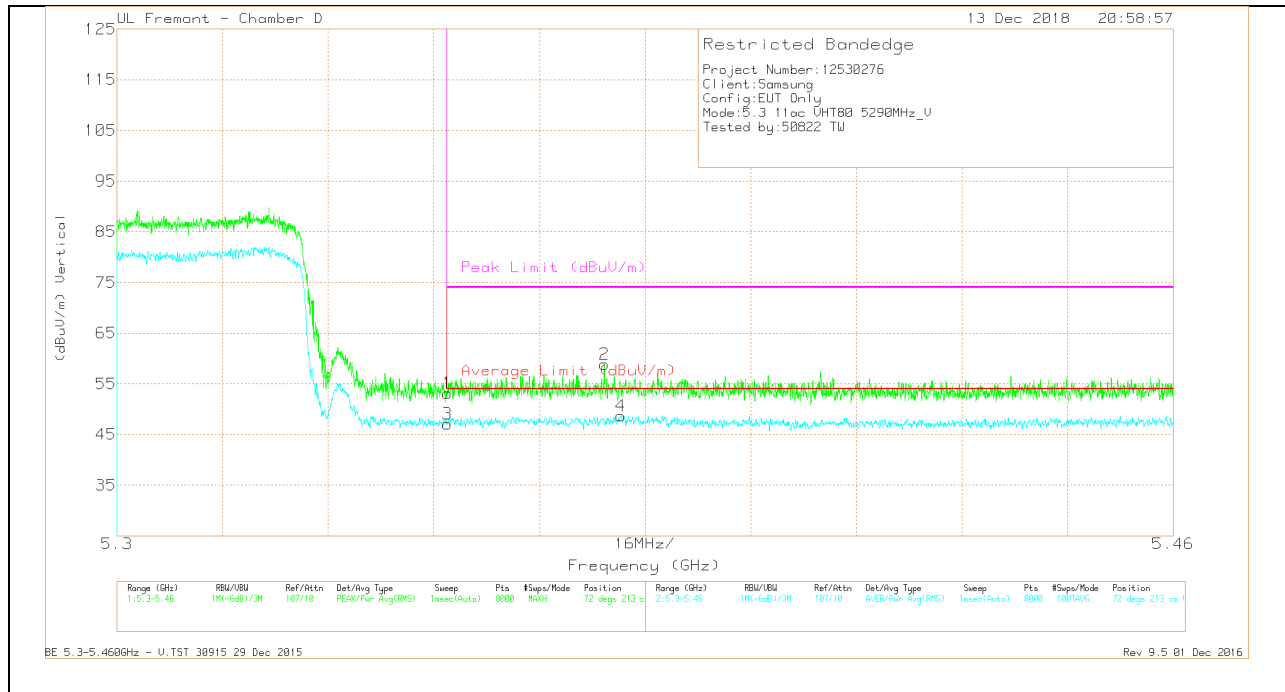
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Chl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.35          | 38.52                | Pk  | 34.6           | -17.4                 | 0            | 55.72                      | -                      | -           | 74                  | -18.28         | 67              | 135         | H        |
| 2      | * 5.365         | 45.81                | Pk  | 34.6           | -17.5                 | 0            | 62.91                      | -                      | -           | 74                  | -11.09         | 67              | 135         | H        |
| 3      | * 5.35          | 30.65                | RMS | 34.6           | -17.4                 | 1.28         | 49.13                      | 54                     | -4.87       | -                   | -              | 67              | 135         | H        |
| 4      | * 5.37          | 33.43                | RMS | 34.6           | -17.4                 | 1.28         | 51.91                      | 54                     | -2.09       | -                   | -              | 67              | 135         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.35          | 36                   | Pk  | 34.6           | -17.4                | 0            | 53.2                       | -                      | -           | 74                  | -20.8          | 72              | 213         | V        |
| 2      | * 5.374         | 41.63                | Pk  | 34.6           | -17.4                | 0            | 58.83                      | -                      | -           | 74                  | -15.17         | 72              | 213         | V        |
| 3      | * 5.35          | 28.57                | RMS | 34.6           | -17.4                | 1.28         | 47.05                      | 54                     | -6.95       | -                   | -              | 72              | 213         | V        |
| 4      | * 5.376         | 30.17                | RMS | 34.6           | -17.4                | 1.28         | 48.65                      | 54                     | -5.35       | -                   | -              | 72              | 213         | V        |

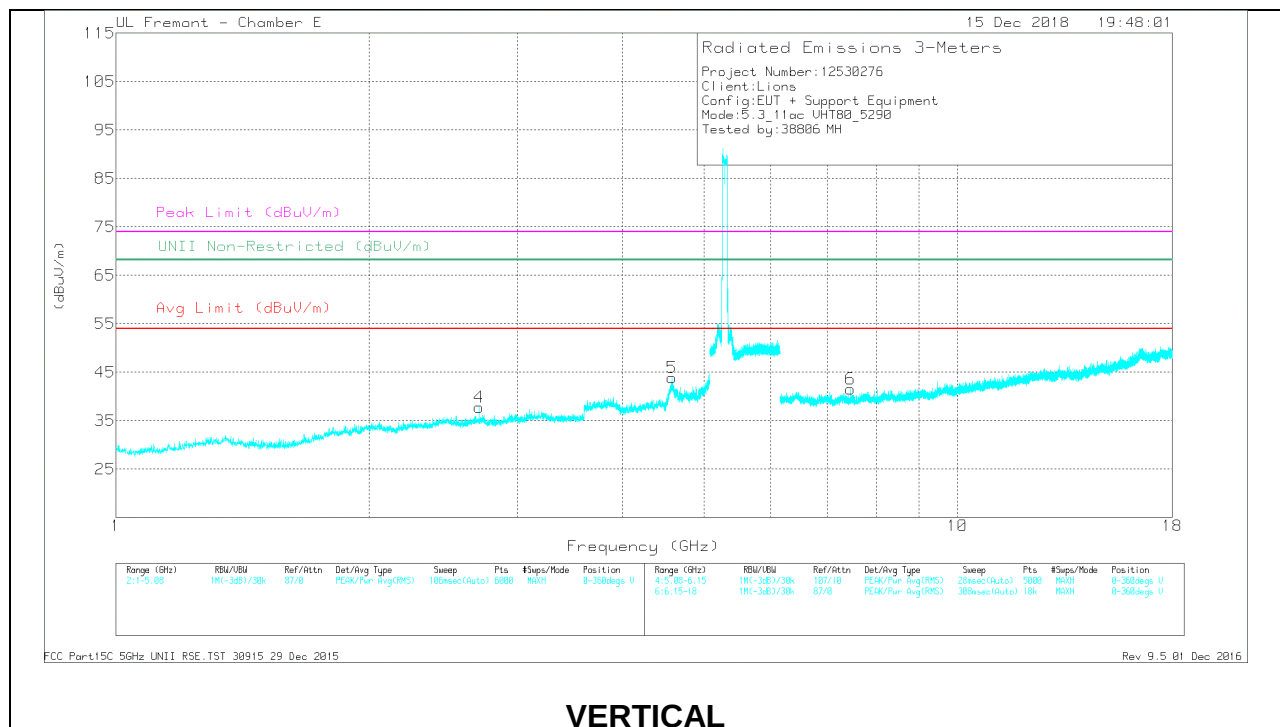
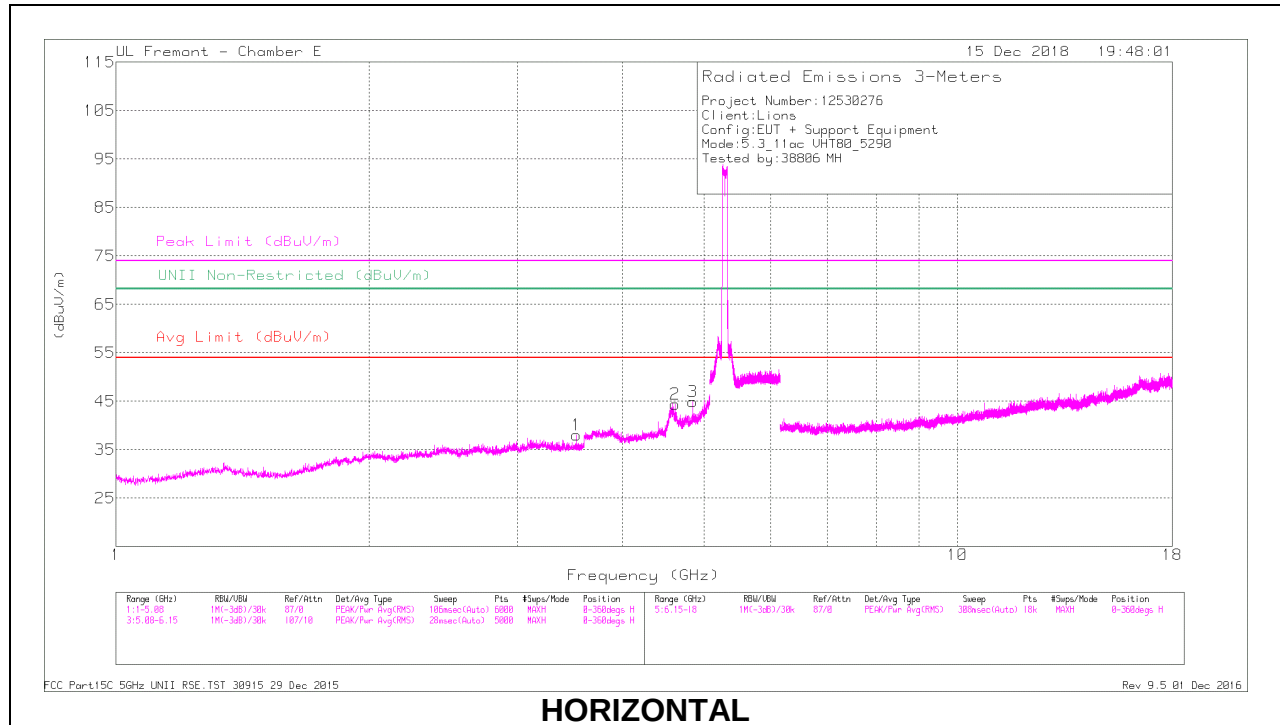
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## HARMONICS AND SPURIOUS EMISSIONS

### MID CHANNEL RESULTS



## RADIATED EMISSIONS

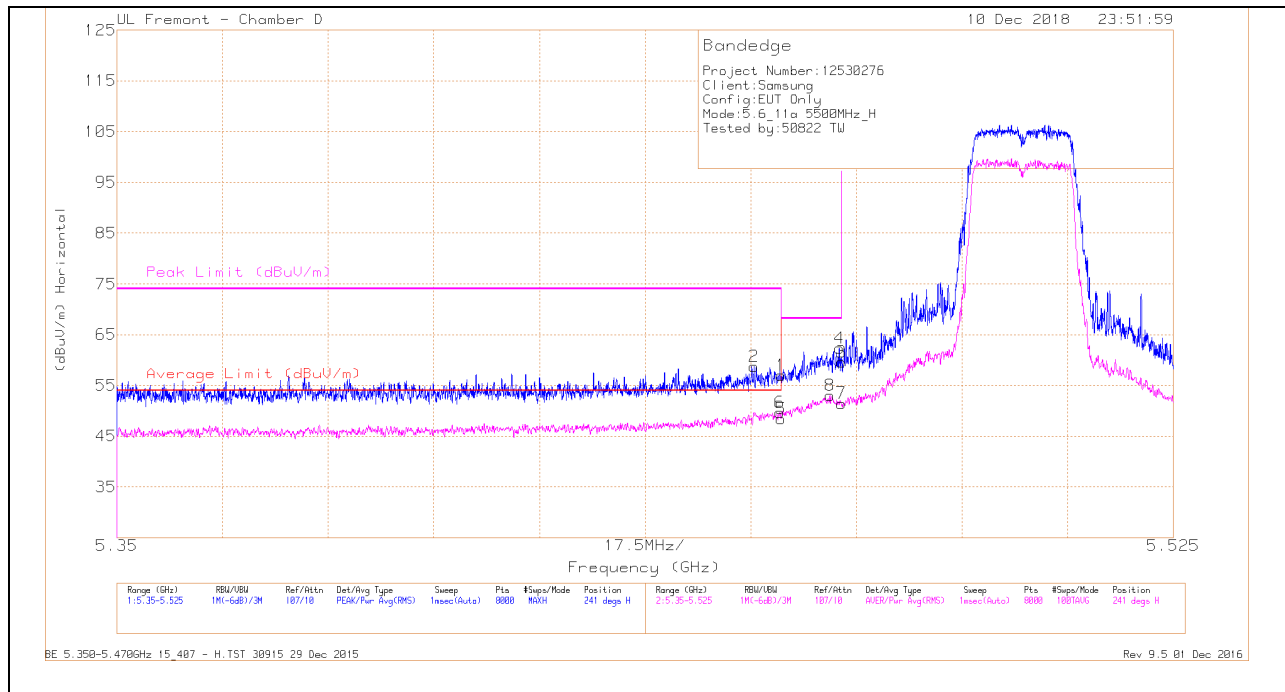
| Markers | Frequency (Hz) | Meter Reading (dBuV) | Det  | AF T712 (dB/m) | Amp/Ch/Ftr/Psd (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Unli Non-Restricted (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|---------|----------------|----------------------|------|----------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|-----------------|-------------|----------|
| 1       | * 3.527        | 46.34                | PK-U | 32.8           | -33.6               | 0            | 45.54                      | -                  | -           | 74                  | -28.46         | -                            | -              | 299             | 129         | H        |
|         | * 3.527        | 35.64                | ADR  | 32.8           | -33.6               | 1.28         | 36.12                      | 54                 | -17.88      | -                   | -              | -                            | -              | 299             | 129         | H        |
| 2       | * 4.617        | 49.21                | PK-U | 33.9           | -31.1               | 0            | 52.01                      | -                  | -           | 74                  | -21.99         | -                            | -              | 141             | 140         | H        |
|         | * 4.618        | 35.66                | ADR  | 33.9           | -31.1               | 1.28         | 39.74                      | 54                 | -14.26      | -                   | -              | -                            | -              | 141             | 140         | H        |
| 3       | * 4.848        | 47.86                | PK-U | 33.9           | -30.3               | 0            | 51.46                      | -                  | -           | 74                  | -22.54         | -                            | -              | 151             | 103         | H        |
|         | * 4.849        | 36.67                | ADR  | 33.9           | -30.3               | 1.28         | 41.55                      | 54                 | -12.45      | -                   | -              | -                            | -              | 151             | 103         | H        |
| 4       | * 2.7          | 47.96                | PK-U | 32.5           | -35.4               | 0            | 45.06                      | -                  | -           | 74                  | -28.94         | -                            | -              | 267             | 128         | V        |
|         | * 2.7          | 38.43                | ADR  | 32.5           | -35.4               | 1.28         | 36.81                      | 54                 | -17.19      | -                   | -              | -                            | -              | 267             | 128         | V        |
| 5       | * 4.577        | 51.21                | PK-U | 33.9           | -31.5               | 0            | 53.61                      | -                  | -           | 74                  | -20.39         | -                            | -              | 164             | 241         | V        |
|         | * 4.577        | 37.51                | ADR  | 33.9           | -31.5               | 1.28         | 41.19                      | 54                 | -12.81      | -                   | -              | -                            | -              | 164             | 241         | V        |
| 6       | * 7.463        | 40.24                | PK-U | 35.6           | -28                 | 0            | 47.84                      | -                  | -           | 74                  | -26.16         | -                            | -              | 73              | 256         | V        |
|         | * 7.462        | 27.4                 | ADR  | 35.6           | -28                 | 1.28         | 36.28                      | 54                 | -17.72      | -                   | -              | -                            | -              | 73              | 256         | V        |

PK-U - U-NII: Maximum Peak

## 9.1.9. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

### BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

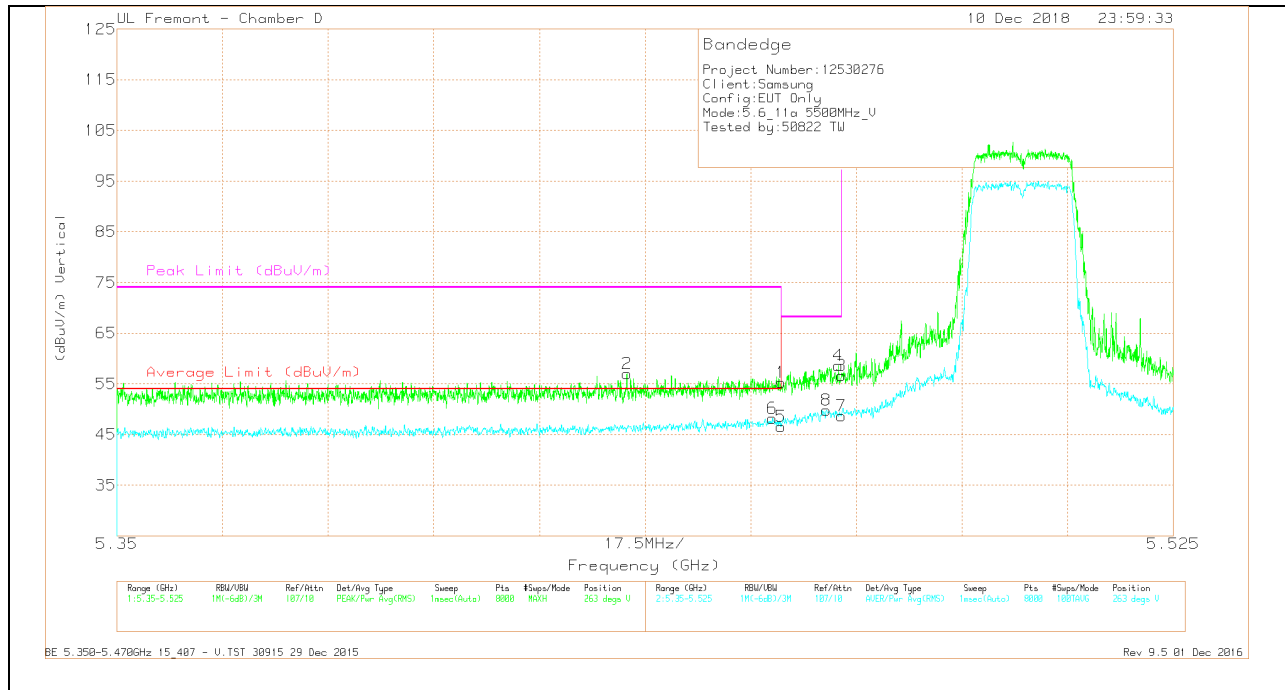
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Fltr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 2      | * 5.456         | 41.03                | Pk  | 34.6           | -16.9                | 0            | 58.73                      | -                      | -           | 74                  | -15.27         | 241             | 102         | H        |
| 1      | * 5.46          | 39.3                 | Pk  | 34.6           | -16.9                | 0            | 57                         | -                      | -           | 74                  | -17            | 241             | 102         | H        |
| 5      | * 5.46          | 30.5                 | RMS | 34.6           | -16.9                | 0.23         | 48.43                      | 54                     | -5.57       | -                   | -              | 241             | 102         | H        |
| 6      | * 5.46          | 31.7                 | RMS | 34.6           | -16.9                | 0.23         | 49.63                      | 54                     | -4.37       | -                   | -              | 241             | 102         | H        |
| 8      | 5.468           | 35.02                | RMS | 34.6           | -16.9                | 0.23         | 52.95                      | -                      | -           | -                   | -              | 241             | 102         | H        |
| 3      | 5.47            | 41.93                | Pk  | 34.6           | -16.9                | 0            | 59.63                      | -                      | -           | 68.2                | -8.57          | 241             | 102         | H        |
| 4      | 5.47            | 44.66                | Pk  | 34.6           | -16.9                | 0            | 62.36                      | -                      | -           | 68.2                | -5.84          | 241             | 102         | H        |
| 7      | 5.47            | 33.51                | RMS | 34.6           | -16.9                | 0.23         | 51.44                      | -                      | -           | -                   | -              | 241             | 102         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 2      | * 5.434         | 39.5                 | Pk  | 34.6           | -17.1               | 0            | 57                         | -                      | -           | 74                  | -17            | 263            | 158         | V        |
| 6      | * 5.459         | 30.2                 | RMS | 34.6           | -16.9               | 0.23         | 48.13                      | 54                     | -5.87       | -                   | -              | 263            | 158         | V        |
| 1      | * 5.46          | 37.51                | Pk  | 34.6           | -16.9               | 0            | 55.21                      | -                      | -           | 74                  | -18.79         | 263            | 158         | V        |
| 5      | * 5.46          | 28.59                | RMS | 34.6           | -16.9               | 0.23         | 46.52                      | 54                     | -7.48       | -                   | -              | 263            | 158         | V        |
| 8      | 5.468           | 31.72                | RMS | 34.6           | -16.8               | 0.23         | 49.75                      | -                      | -           | -                   | -              | 263            | 158         | V        |
| 4      | 5.469           | 40.94                | Pk  | 34.6           | -16.9               | 0            | 58.64                      | -                      | -           | 68.2                | -9.56          | 263            | 158         | V        |
| 3      | 5.47            | 38.91                | Pk  | 34.6           | -16.9               | 0            | 56.61                      | -                      | -           | 68.2                | -11.59         | 263            | 158         | V        |
| 7      | 5.47            | 30.75                | RMS | 34.6           | -16.9               | 0.23         | 48.68                      | -                      | -           | -                   | -              | 263            | 158         | V        |

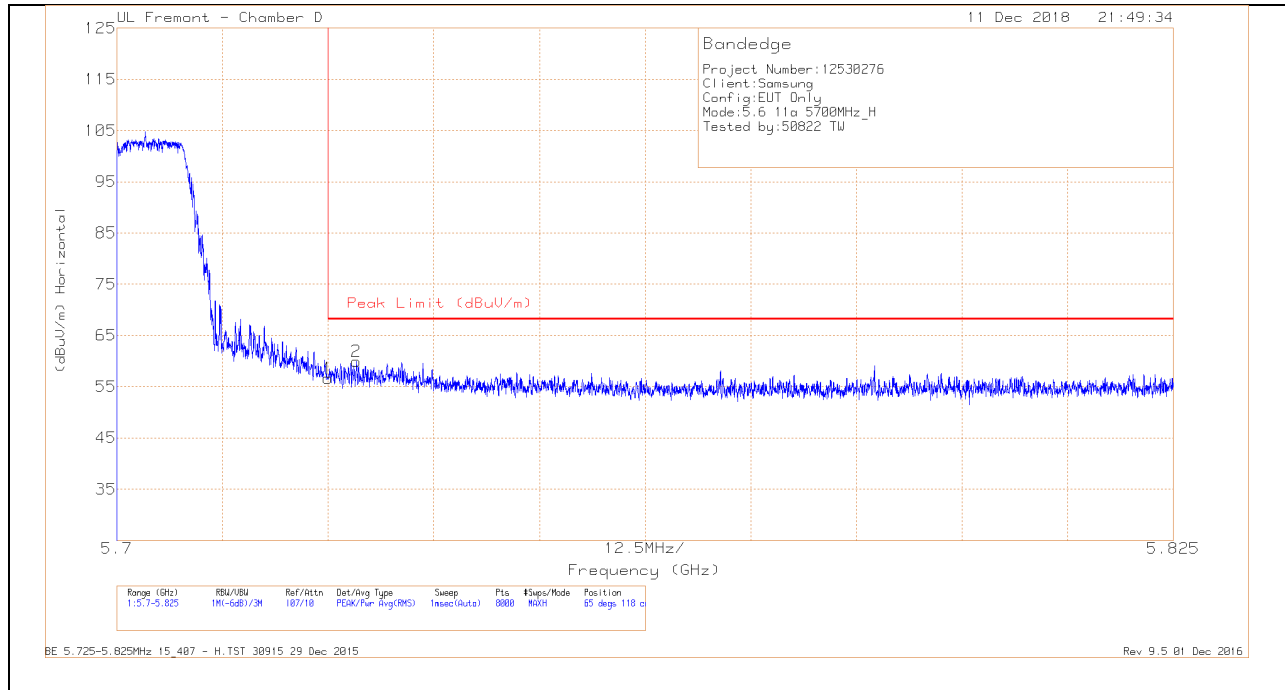
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT

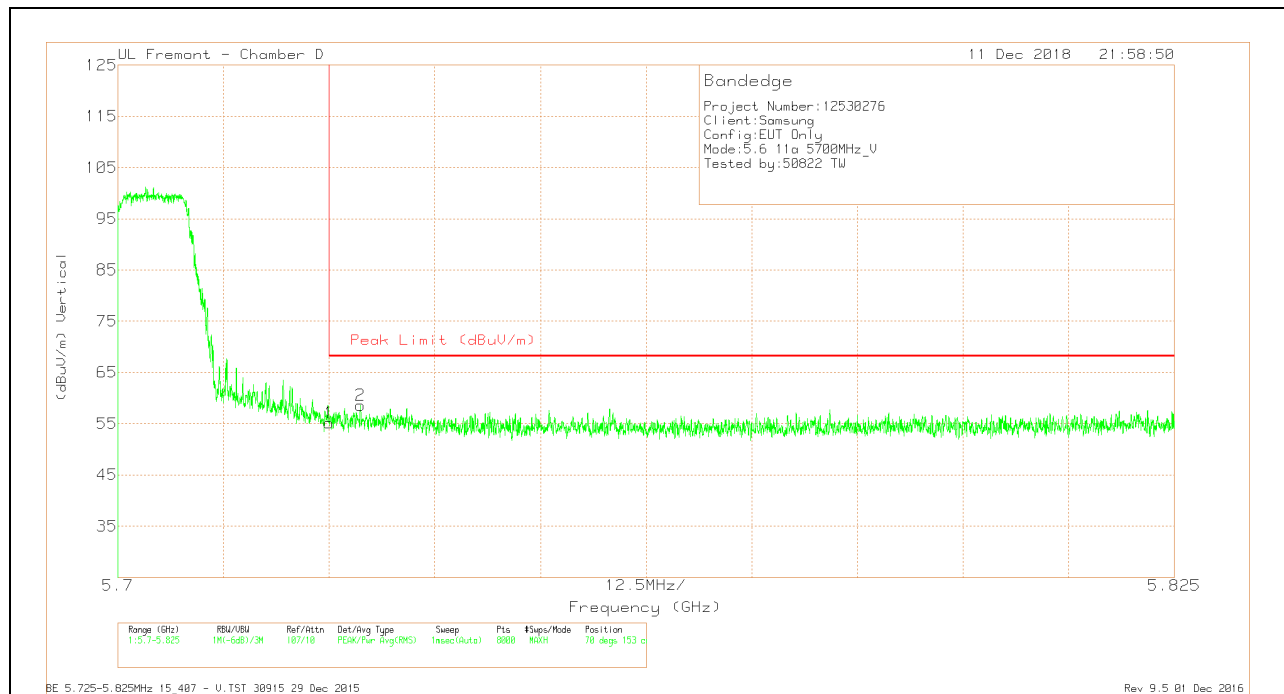


### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 38.38                | Pk  | 34.8           | -16.5                 | 0            | 56.68                      | 68.2                | -11.52         | 65             | 118         | H        |
| 2      | 5.728           | 41.62                | Pk  | 34.8           | -16.5                 | 0            | 59.92                      | 68.2                | -8.28          | 65             | 118         | H        |

Pk - Peak detector

## VERTICAL RESULT



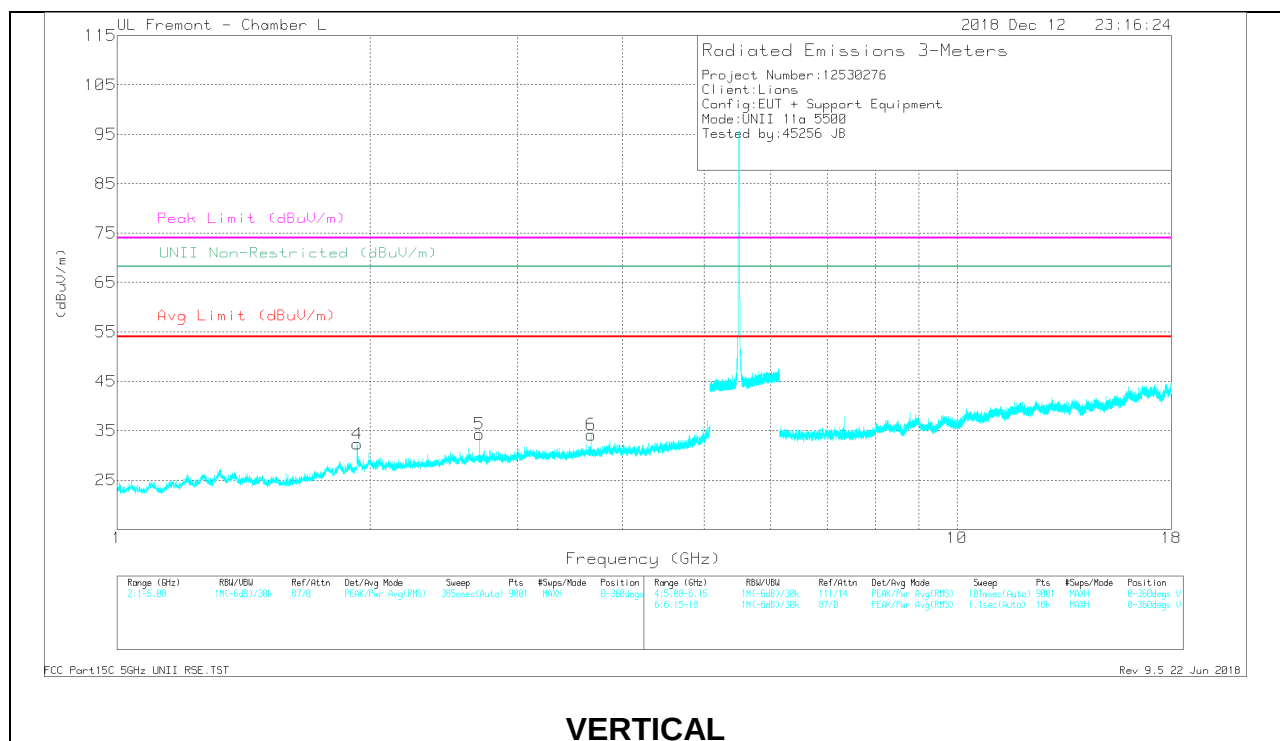
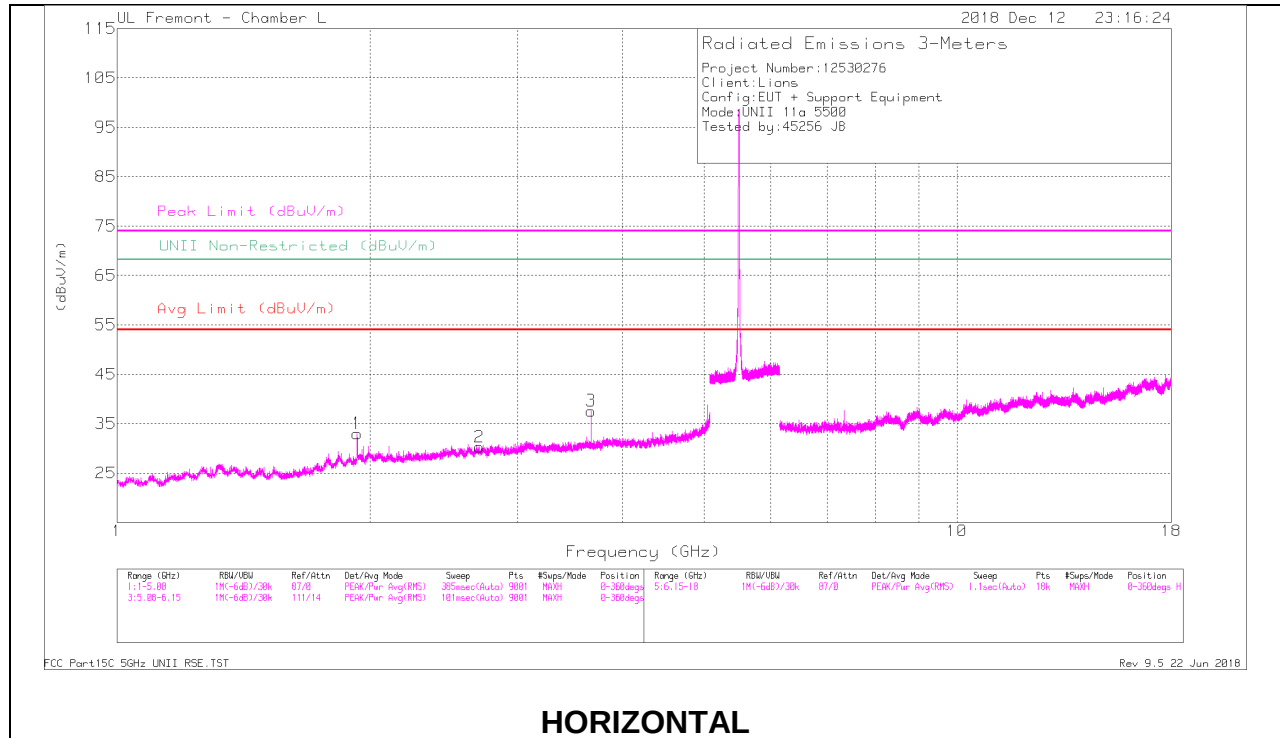
### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 36.83                | Pk  | 34.8           | -16.5                  | 0            | 55.13                      | 68.2                | -13.07         | 70             | 153         | V        |
| 2      | 5.729           | 40.24                | Pk  | 34.8           | -16.5                  | 0            | 58.54                      | 68.2                | -9.66          | 70             | 153         | V        |

Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

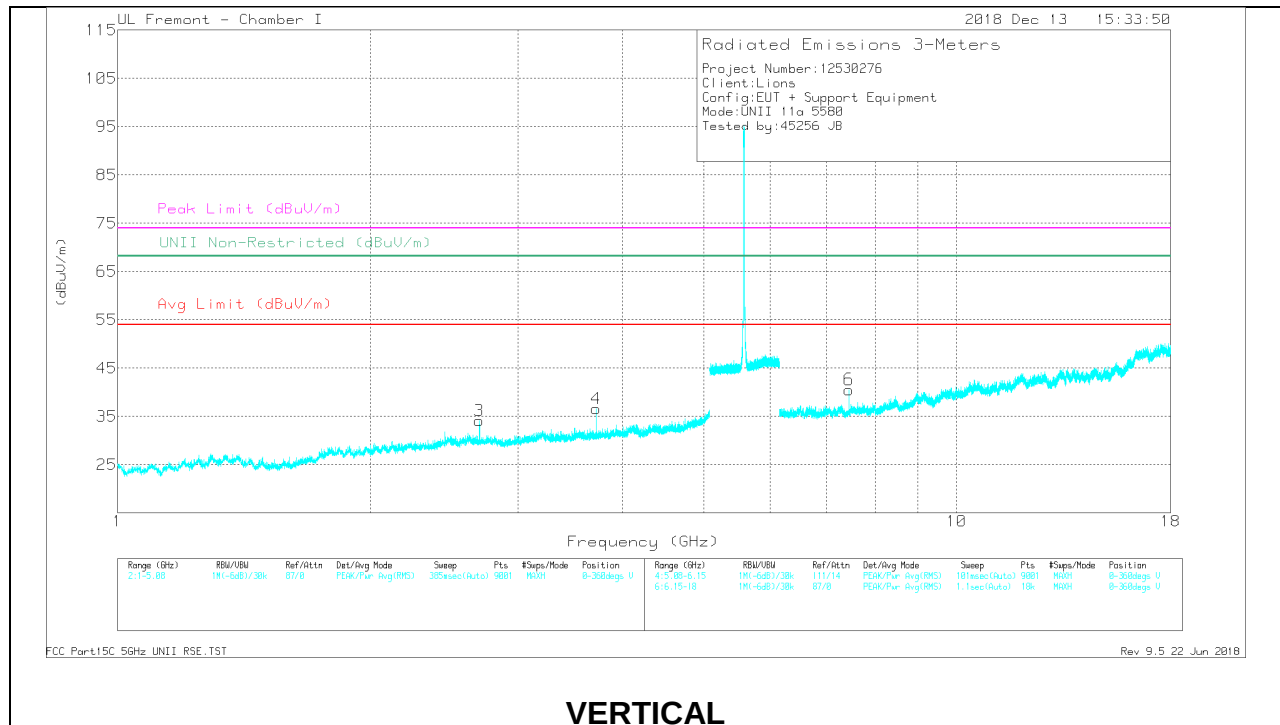
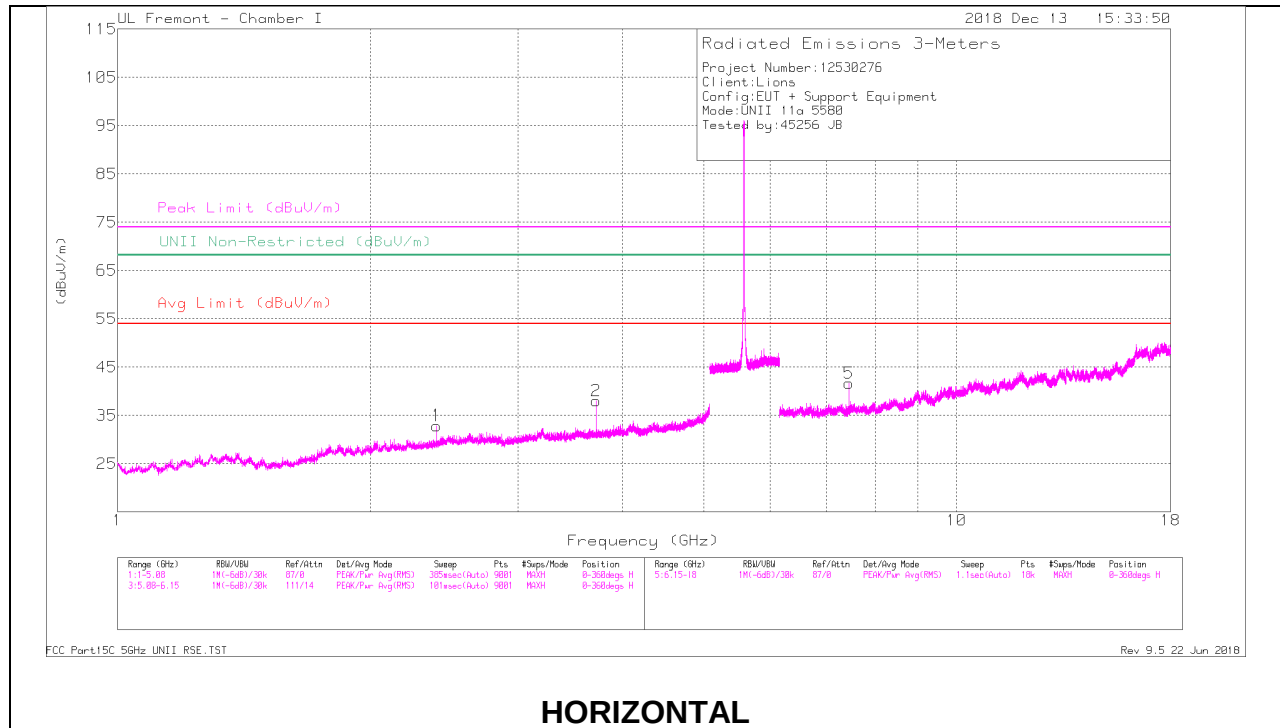
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/FHz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | ULRII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|-------------------------------|----------------|----------------|-------------|----------|
| 1.931           | 40.66                | PK-U | 31.3              | -33.5               | 0            | 38.46                      | -                  | -           | -                   | -              | 68.2                          | -29.74         | 323            | 171         | H        |
| * 2.7           | 37.3                 | PK-U | 32.6              | -32.1               | 0            | 37.8                       | -                  | -           | 74                  | -36.2          | -                             | -              | 289            | 124         | H        |
| * 2.7           | 29.22                | ADR  | 32.6              | -32.1               | 0.23         | 29.95                      | 54                 | -24.05      | -                   | -              | -                             | -              | 289            | 124         | H        |
| * 3.667         | 38.21                | PK-U | 33.2              | -30                 | 0            | 41.41                      | -                  | -           | 74                  | -32.59         | -                             | -              | 123            | 102         | H        |
| * 3.667         | 33.14                | ADR  | 33.2              | -30                 | 0.23         | 36.57                      | 54                 | -17.43      | -                   | -              | -                             | -              | 123            | 102         | H        |
| 1.931           | 41.98                | PK-U | 31.3              | -33.5               | 0            | 39.78                      | -                  | -           | -                   | -              | 68.2                          | -28.42         | 40             | 274         | V        |
| * 2.7           | 38.47                | PK-U | 32.6              | -32.1               | 0            | 38.97                      | -                  | -           | 74                  | -35.03         | -                             | -              | 233            | 130         | V        |
| * 2.7           | 32.92                | ADR  | 32.6              | -32.1               | 0.23         | 33.65                      | 54                 | -20.35      | -                   | -              | -                             | -              | 233            | 130         | V        |
| * 3.667         | 38.67                | PK-U | 33.2              | -30                 | 0            | 41.87                      | -                  | -           | 74                  | -32.13         | -                             | -              | 104            | 358         | V        |
| * 3.667         | 30.54                | ADR  | 33.2              | -30                 | 0.23         | 33.97                      | 54                 | -20.03      | -                   | -              | -                             | -              | 104            | 358         | 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

## MID CHANNEL RESULTS



## RADIATED EMISSIONS

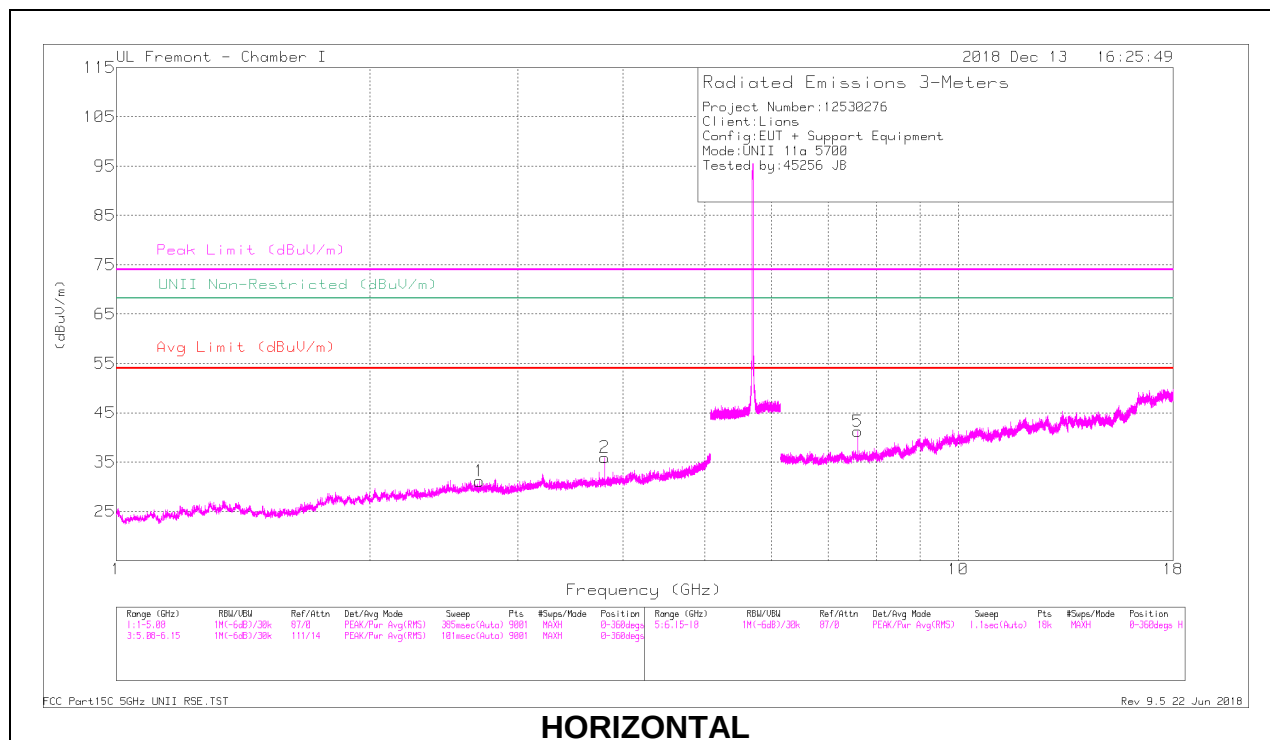
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TRF2 (dB/m) | Ampl/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Aug Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| 2.404           | 37.23                | PK-U | 32             | -31.9                 | 0            | 37.33                      | -                  | -           | -                   | -              | 68.2                         | -30.87         | 165            | 190         | H        |
| * 3.72          | 37.64                | PK-U | 32.9           | -29.2                 | 0            | 41.34                      | -                  | -           | 74                  | -32.66         | -                            | -              | 202            | 160         | H        |
| * 3.72          | 30.64                | ADR  | 32.9           | -29.2                 | 0.23         | 34.57                      | 54                 | -19.43      | -                   | -              | -                            | -              | 202            | 160         | H        |
| * 2.7           | 38.9                 | PK-U | 32.4           | -31.4                 | 0            | 39.9                       | -                  | -           | 74                  | -34.1          | -                            | -              | 168            | 128         | V        |
| * 2.7           | 32                   | ADR  | 32.4           | -31.4                 | 0.23         | 33.23                      | 54                 | -20.77      | -                   | -              | -                            | -              | 168            | 128         | V        |
| * 3.72          | 36.63                | PK-U | 32.9           | -29.2                 | 0            | 40.33                      | -                  | -           | 74                  | -33.67         | -                            | -              | 38             | 191         | V        |
| * 3.72          | 29.9                 | ADR  | 32.9           | -29.2                 | 0.23         | 33.83                      | 54                 | -20.17      | -                   | -              | -                            | -              | 38             | 191         | V        |
| * 7.44          | 31.95                | PK-U | 35.6           | -20.8                 | 0            | 46.75                      | -                  | -           | 74                  | -27.25         | -                            | -              | 110            | 117         | H        |
| * 7.44          | 26.07                | ADR  | 35.6           | -20.8                 | 0.23         | 41.1                       | 54                 | -12.9       | -                   | -              | -                            | -              | 110            | 117         | H        |
| * 7.44          | 31.09                | PK-U | 35.6           | -20.8                 | 0            | 45.89                      | -                  | -           | 74                  | -28.11         | -                            | -              | 68             | 124         | V        |
| * 7.44          | 24.1                 | ADR  | 35.6           | -20.8                 | 0.23         | 39.13                      | 54                 | -14.87      | -                   | -              | -                            | -              | 68             | 124         | V        |

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

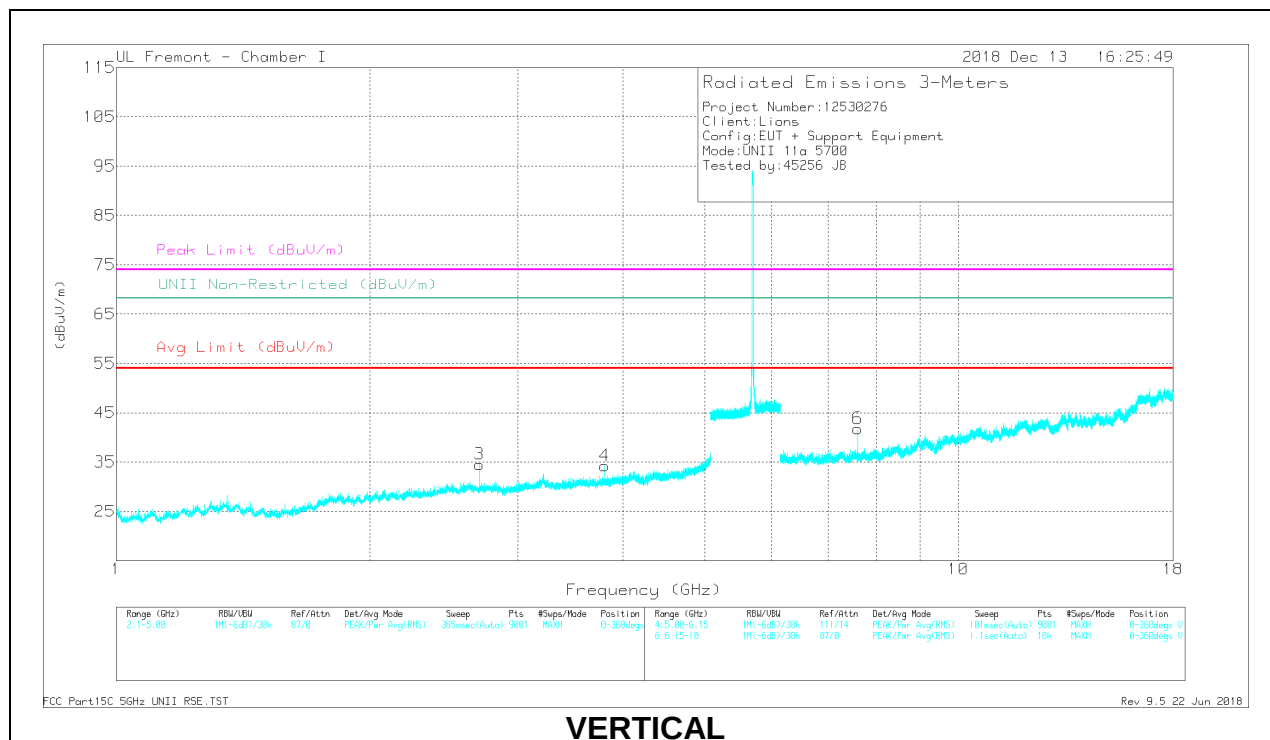
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## HIGH CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

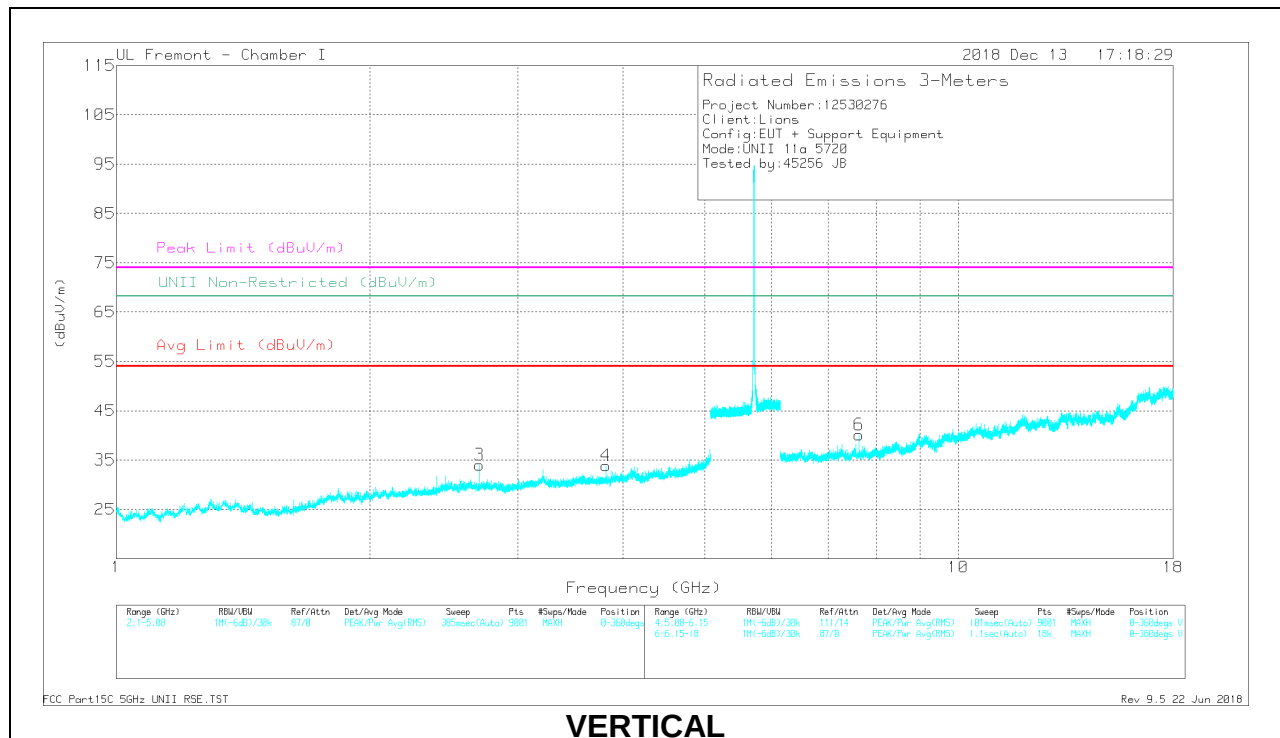
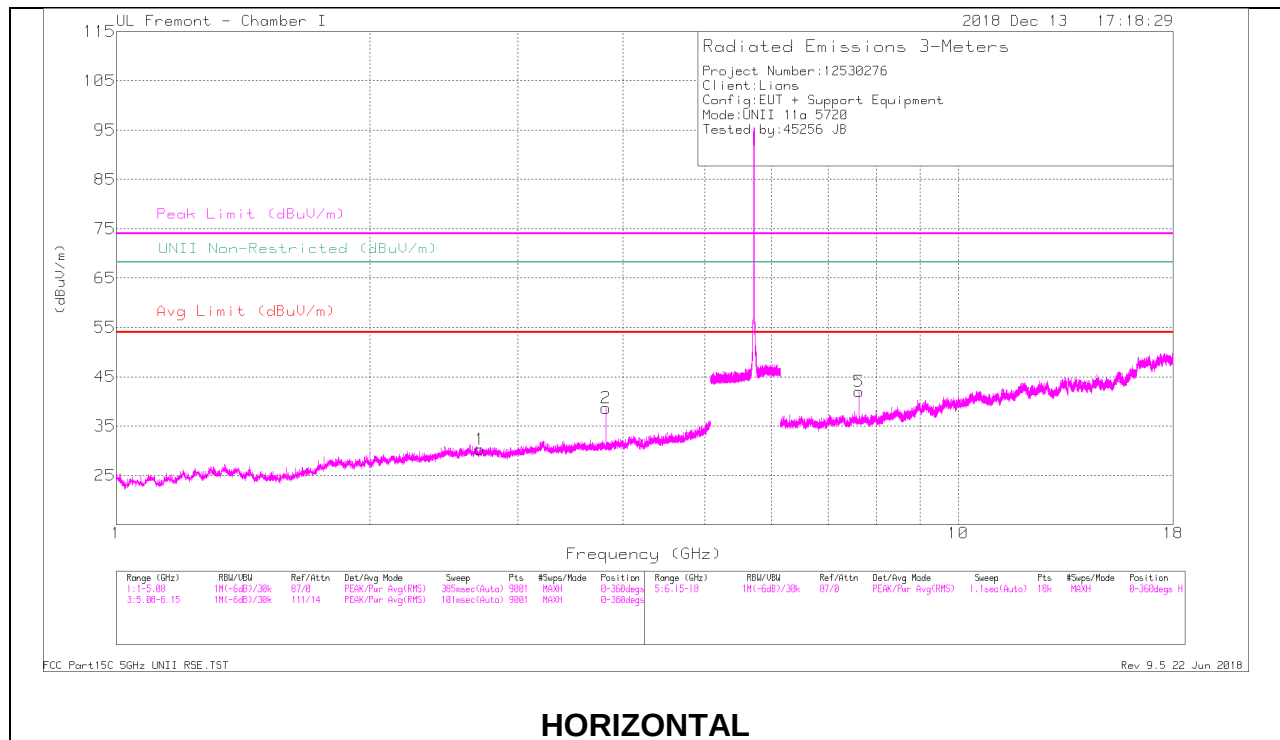
| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TRF2 (dB/m) | Amp/Cb/FHz/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.702         | 36.82                | PK-U | 32.4           | -31.4               | 0            | 37.82                      | -                  | -           | 74                  | -36.18         | -                            | -              | 74             | 279         | H        |
| * 2.7           | 28.87                | ADR  | 32.4           | -31.4               | 0.23         | 30.1                       | 54                 | -23.9       | -                   | -              | -                            | -              | 74             | 279         | H        |
| * 3.8           | 38.18                | PK-U | 33.1           | -29.8               | 0            | 41.48                      | -                  | -           | 74                  | -32.52         | -                            | -              | 40             | 116         | H        |
| * 3.8           | 31.75                | ADR  | 33.1           | -29.8               | 0.23         | 35.28                      | 54                 | -18.72      | -                   | -              | -                            | -              | 40             | 116         | H        |
| * 2.7           | 38.35                | PK-U | 32.4           | -31.4               | 0            | 39.35                      | -                  | -           | 74                  | -34.65         | -                            | -              | 169            | 188         | V        |
| * 2.7           | 31.76                | ADR  | 32.4           | -31.4               | 0.23         | 32.99                      | 54                 | -21.01      | -                   | -              | -                            | -              | 169            | 188         | V        |
| * 3.8           | 38.09                | PK-U | 33.1           | -29.8               | 0            | 41.39                      | -                  | -           | 74                  | -32.61         | -                            | -              | 32             | 184         | V        |
| * 3.8           | 30.29                | ADR  | 33.1           | -29.8               | 0.23         | 33.82                      | 54                 | -20.18      | -                   | -              | -                            | -              | 32             | 184         | V        |
| * 7.6           | 31.32                | PK-U | 35.6           | -20.7               | 0            | 46.22                      | -                  | -           | 74                  | -27.78         | -                            | -              | 52             | 183         | H        |
| * 7.6           | 25.07                | ADR  | 35.6           | -20.7               | 0.23         | 40.2                       | 54                 | -13.8       | -                   | -              | -                            | -              | 52             | 183         | H        |
| * 7.6           | 31.35                | PK-U | 35.6           | -20.7               | 0            | 46.25                      | -                  | -           | 74                  | -27.75         | -                            | -              | 96             | 227         | V        |
| * 7.6           | 25.62                | ADR  | 35.6           | -20.7               | 0.23         | 40.75                      | 54                 | -13.25      | -                   | -              | -                            | -              | 96             | 227         | 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

## CHANNEL 144 RESULTS



## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF TR2 (dB/m) | Amp/Ch/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.705         | 36.38                | PK-U | 32.4          | -31.5                | 0            | 37.28                      | -                  | -           | 74                  | -36.72         | -                            | -              | 204            | 229         | H        |
| * 2.703         | 26.92                | ADR  | 32.4          | -31.5                | 0.23         | 28.05                      | 54                 | -25.95      | -                   | -              | -                            | -              | 204            | 229         | H        |
| * 3.813         | 38.85                | PK-U | 33.1          | -30                  | 0            | 41.95                      | -                  | -           | 74                  | -32.05         | -                            | -              | 44             | 116         | H        |
| * 3.813         | 31.18                | ADR  | 33.1          | -30                  | 0.23         | 34.51                      | 54                 | -19.49      | -                   | -              | -                            | -              | 44             | 116         | H        |
| * 2.7           | 37.83                | PK-U | 32.4          | -31.4                | 0            | 38.83                      | -                  | -           | 74                  | -35.17         | -                            | -              | 170            | 222         | V        |
| * 2.7           | 31.87                | ADR  | 32.4          | -31.4                | 0.23         | 33.1                       | 54                 | -20.9       | -                   | -              | -                            | -              | 170            | 222         | V        |
| * 3.813         | 37.1                 | PK-U | 33.1          | -30                  | 0            | 40.2                       | -                  | -           | 74                  | -33.8          | -                            | -              | 119            | 114         | V        |
| * 3.813         | 28.21                | ADR  | 33.1          | -30                  | 0.23         | 31.54                      | 54                 | -22.46      | -                   | -              | -                            | -              | 119            | 114         | V        |
| * 7.627         | 31.68                | PK-U | 35.7          | -20.8                | 0            | 46.58                      | -                  | -           | 74                  | -27.42         | -                            | -              | 51             | 175         | H        |
| * 7.627         | 24.27                | ADR  | 35.7          | -20.8                | 0.23         | 39.4                       | 54                 | -14.6       | -                   | -              | -                            | -              | 51             | 175         | H        |
| * 7.627         | 31.31                | PK-U | 35.7          | -20.8                | 0            | 46.21                      | -                  | -           | 74                  | -27.79         | -                            | -              | 140            | 108         | V        |
| * 7.627         | 24.17                | ADR  | 35.7          | -20.8                | 0.23         | 39.3                       | 54                 | -14.7       | -                   | -              | -                            | -              | 140            | 108         | V        |

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

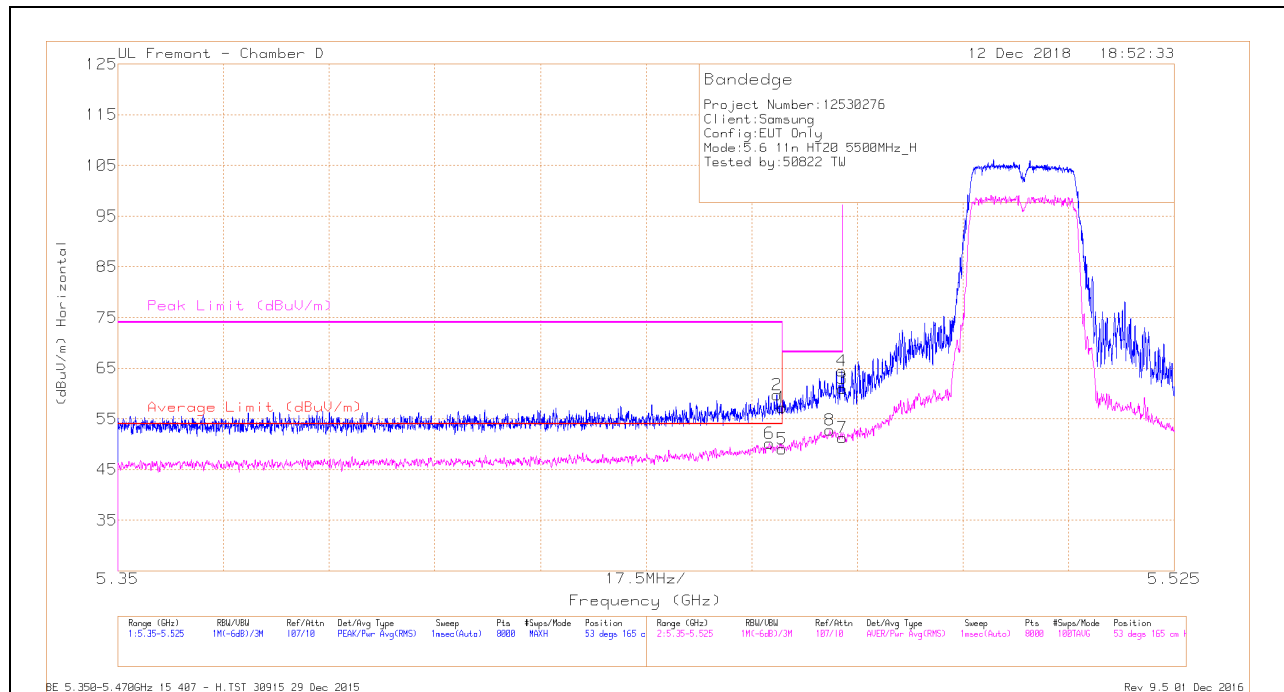
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**9.1.10. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

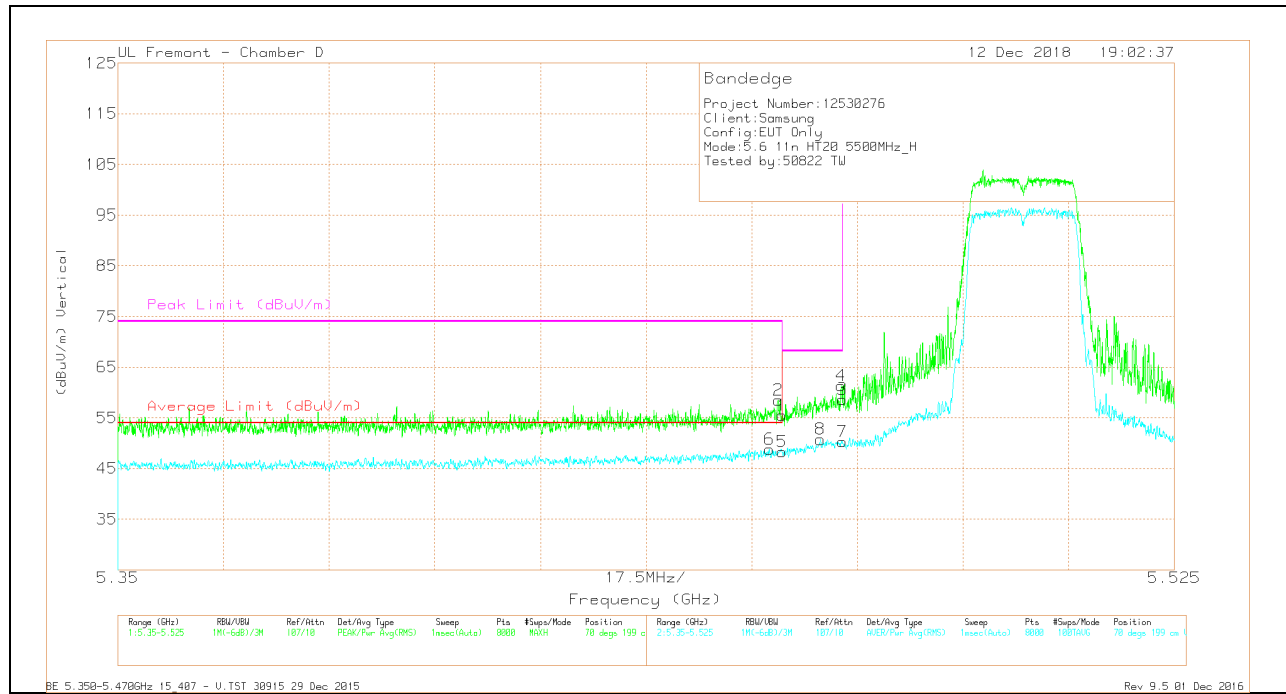
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.46          | 39.58                | Pk  | 34.6           | -16.9                | 0            | 57.28                      | -                      | -           | 74                  | -16.72         | 53              | 165         | H        |
| 2      | * 5.459         | 42.08                | Pk  | 34.6           | -16.9                | 0            | 59.78                      | -                      | -           | 74                  | -14.22         | 53              | 165         | H        |
| 5      | * 5.46          | 31.08                | RMS | 34.6           | -16.9                | 0.24         | 49.02                      | 54                     | -4.98       | -                   | -              | 53              | 165         | H        |
| 6      | * 5.458         | 32.22                | RMS | 34.6           | -16.9                | 0.24         | 50.16                      | 54                     | -3.84       | -                   | -              | 53              | 165         | H        |
| 8      | 5.468           | 34.81                | RMS | 34.6           | -16.9                | 0.24         | 52.75                      | -                      | -           | -                   | -              | 53              | 165         | H        |
| 3      | 5.47            | 43.31                | Pk  | 34.6           | -16.9                | 0            | 61.01                      | -                      | -           | 68.2                | -7.19          | 53              | 165         | H        |
| 4      | 5.47            | 46.72                | Pk  | 34.6           | -16.9                | 0            | 64.42                      | -                      | -           | 68.2                | -3.78          | 53              | 165         | H        |
| 7      | 5.47            | 33.28                | RMS | 34.6           | -16.9                | 0.24         | 51.22                      | -                      | -           | -                   | -              | 53              | 165         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 37.79                | Pk  | 34.6           | -16.9               | 0            | 55.49                      | -                      | -           | 74                  | -18.51         | 70             | 199         | V        |
| 2      | * 5.459         | 40.75                | Pk  | 34.6           | -16.9               | 0            | 58.45                      | -                      | -           | 74                  | -15.55         | 70             | 199         | V        |
| 5      | * 5.46          | 30.32                | RMS | 34.6           | -16.9               | 0.24         | 48.26                      | 54                     | -5.74       | -                   | -              | 70             | 199         | V        |
| 6      | * 5.458         | 30.83                | RMS | 34.6           | -16.9               | 0.24         | 48.77                      | 54                     | -5.23       | -                   | -              | 70             | 199         | V        |
| 8      | 5.466           | 32.65                | RMS | 34.6           | -16.8               | 0.24         | 50.69                      | -                      | -           | -                   | -              | 70             | 199         | V        |
| 3      | 5.47            | 40.97                | Pk  | 34.6           | -16.9               | 0            | 58.67                      | -                      | -           | 68.2                | -9.53          | 70             | 199         | V        |
| 4      | 5.47            | 43.67                | Pk  | 34.6           | -16.9               | 0            | 61.37                      | -                      | -           | 68.2                | -6.83          | 70             | 199         | V        |
| 7      | 5.47            | 32.26                | RMS | 34.6           | -16.9               | 0.24         | 50.2                       | -                      | -           | -                   | -              | 70             | 199         | V        |

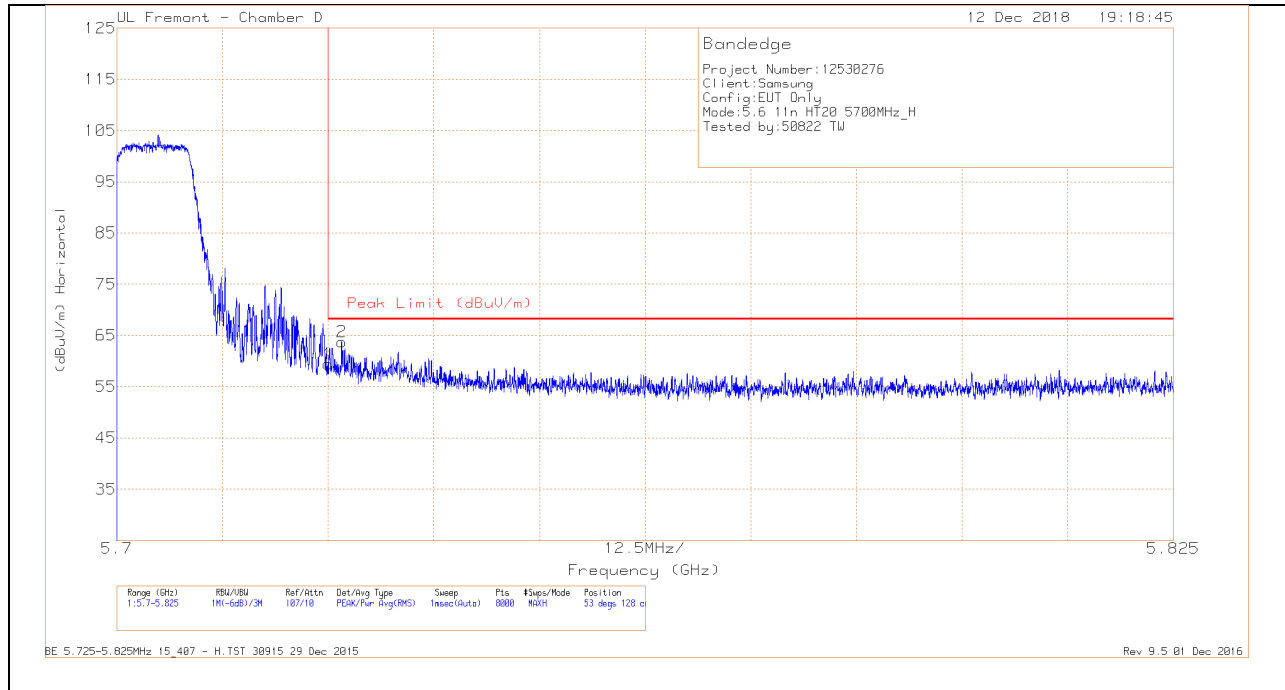
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT

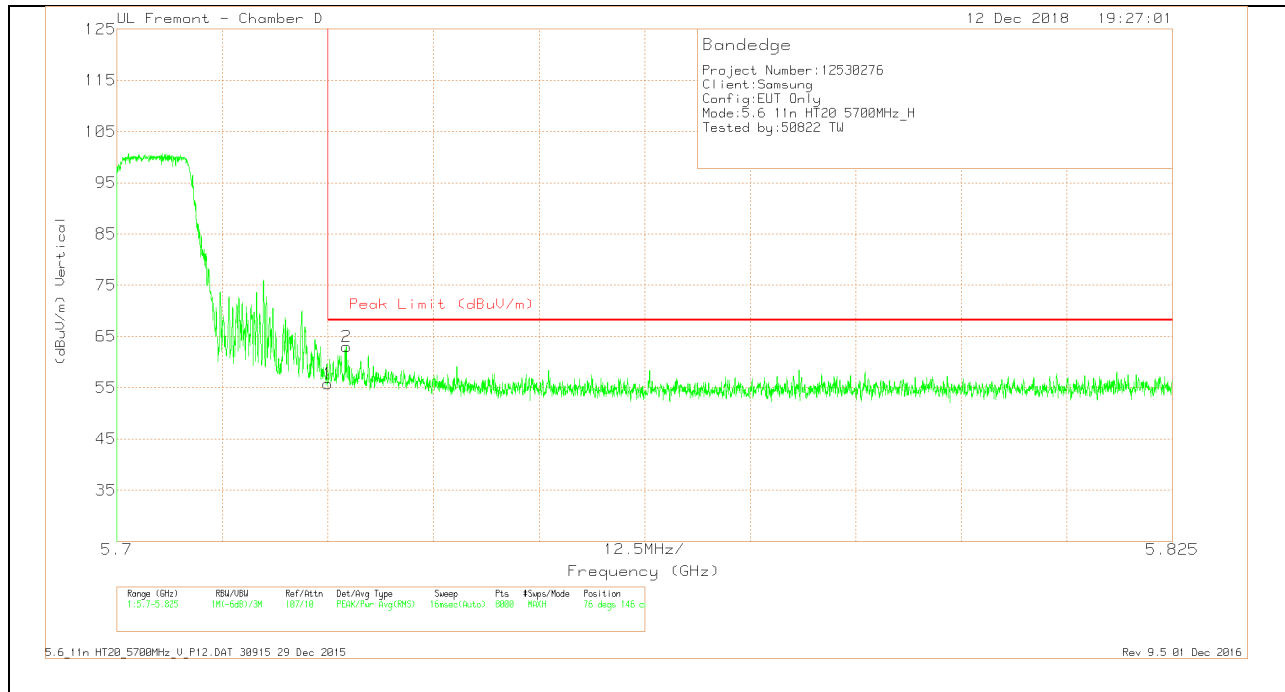


### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|------------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 41.15                | Pk  | 34.8           | -16.5                  | 0            | 59.45                      | 68.2                | -8.75          | 53             | 128         | H        |
| 2      | 5.727           | 45.49                | Pk  | 34.8           | -16.5                  | 0            | 63.79                      | 68.2                | -4.41          | 53             | 128         | H        |

Pk - Peak detector

## VERTICAL RESULT



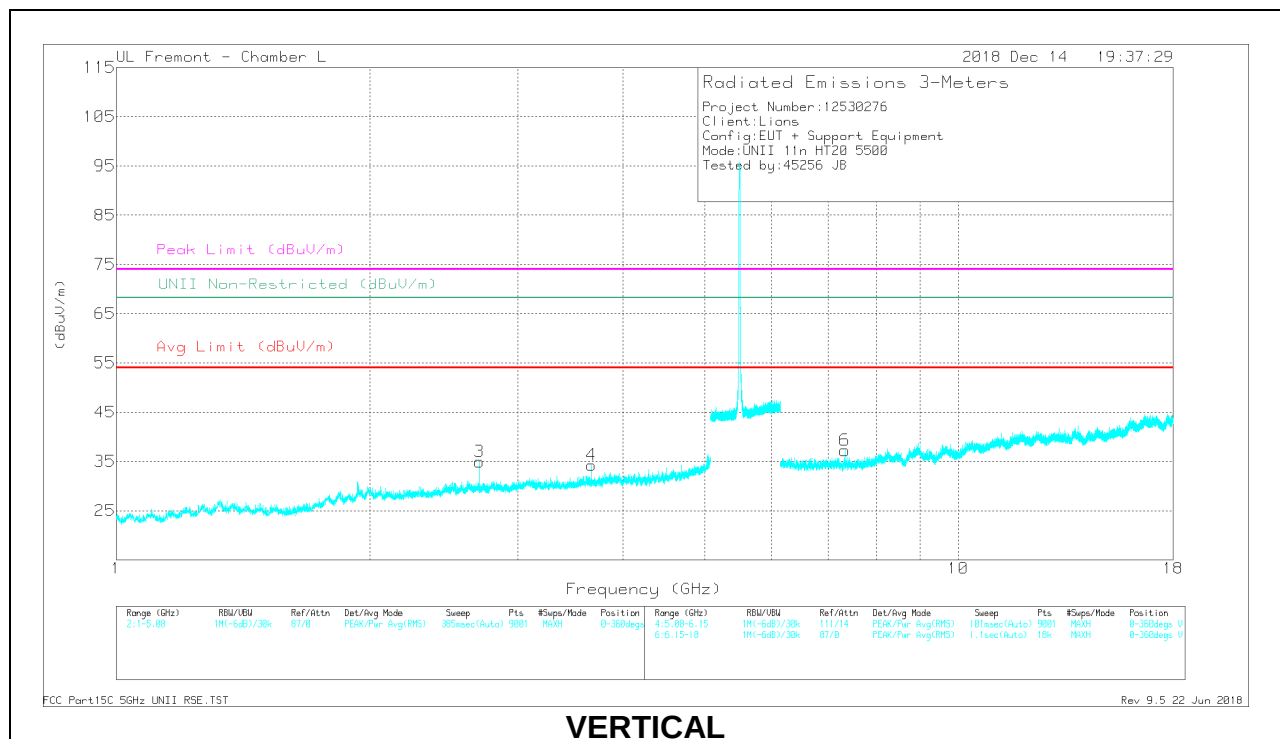
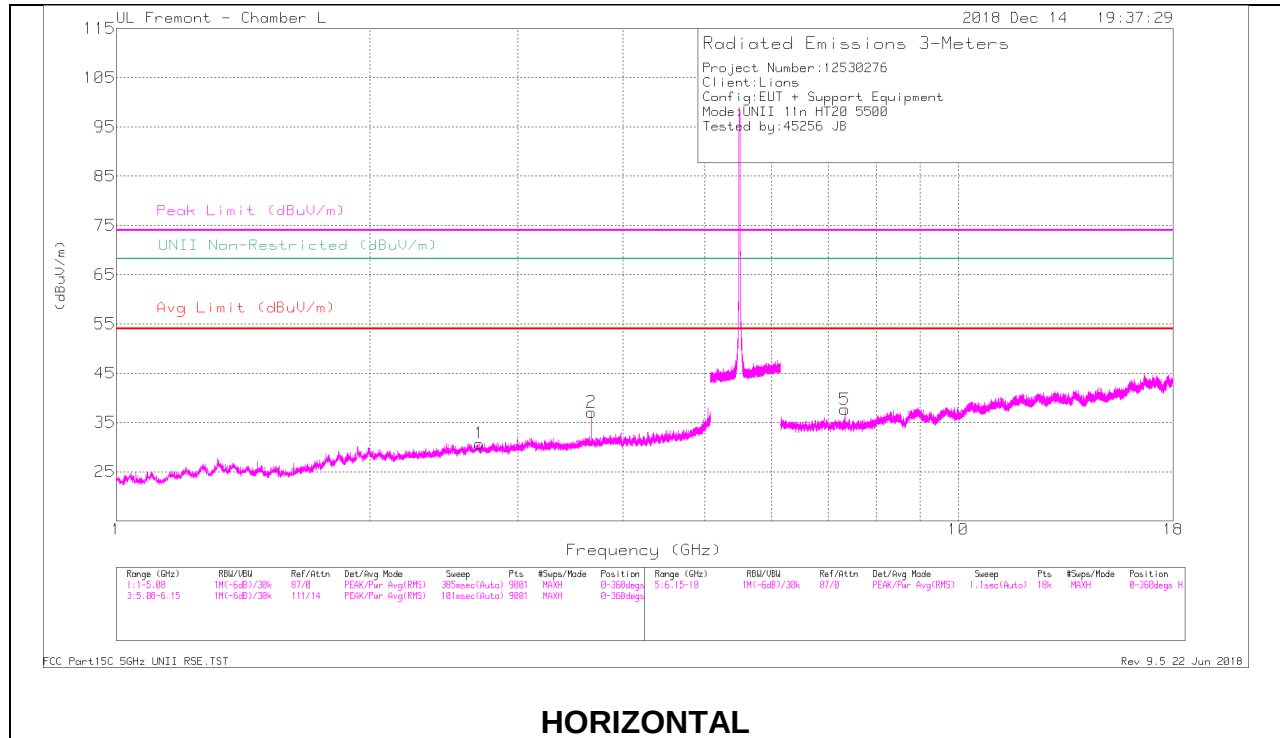
## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 37.48                | Pk  | 34.8           | -16.5                 | 0            | 55.78                      | 68.2                | -12.42         | 76             | 146         | V        |
| 2      | 5.727           | 44.76                | Pk  | 34.8           | -16.5                 | 0            | 63.06                      | 68.2                | -5.14          | 76             | 146         | V        |

Pk - Peak detector

## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS



## RADIATED EMISSIONS

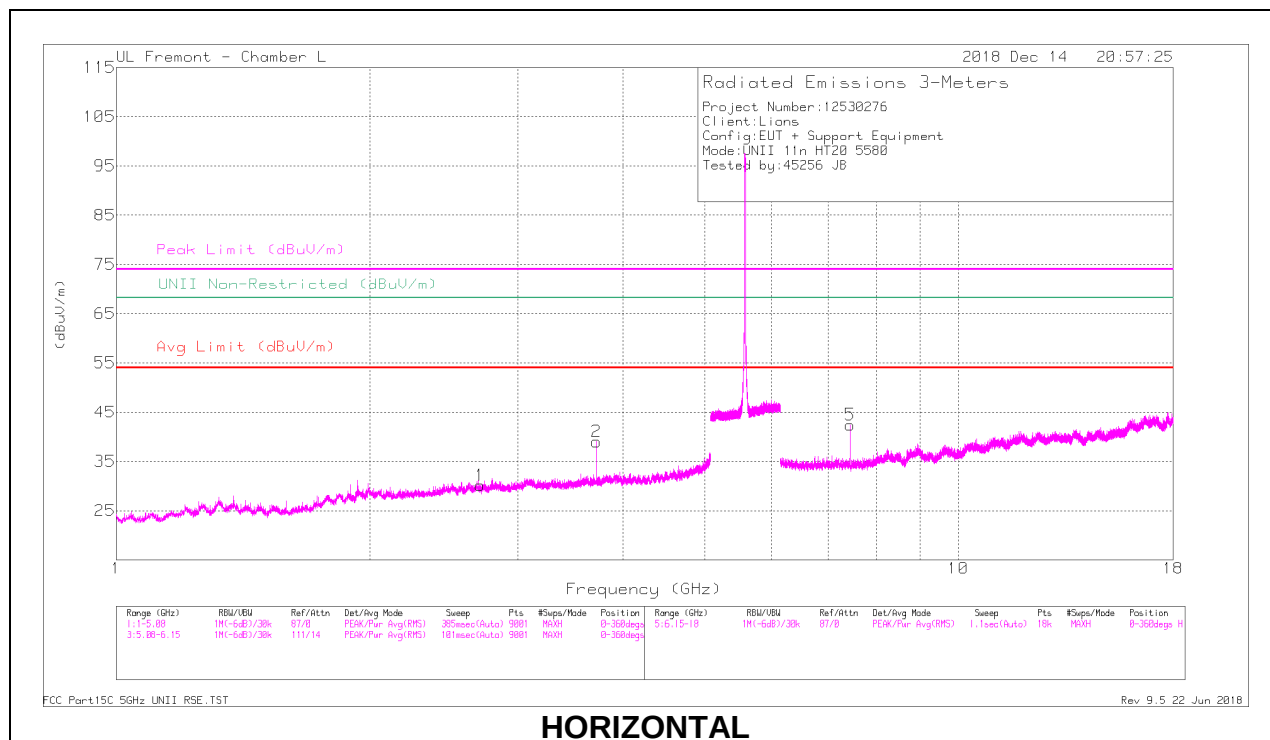
| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 36.78                | PK-U | 32.6              | -32.1               | 0            | 37.28                      | -                  | -           | 74                  | -36.72         | -                            | -              | 164            | 163         | H        |
| * 2.7           | 28.36                | ADR  | 32.6              | -32.1               | 0.24         | 29.1                       | 54                 | -24.9       | -                   | -              | -                            | -              | 164            | 163         | H        |
| * 3.667         | 38.59                | PK-U | 33.2              | -30                 | 0            | 41.79                      | -                  | -           | 74                  | -32.21         | -                            | -              | 268            | 124         | H        |
| * 3.667         | 32.79                | ADR  | 33.2              | -30                 | 0.24         | 36.23                      | 54                 | -17.77      | -                   | -              | -                            | -              | 268            | 124         | H        |
| * 2.7           | 38.82                | PK-U | 32.6              | -32.1               | 0            | 39.32                      | -                  | -           | 74                  | -34.68         | -                            | -              | 241            | 111         | V        |
| * 2.7           | 33.48                | ADR  | 32.6              | -32.1               | 0.24         | 34.22                      | 54                 | -19.78      | -                   | -              | -                            | -              | 241            | 111         | V        |
| * 3.667         | 37.9                 | PK-U | 33.2              | -30.1               | 0            | 41                         | -                  | -           | 74                  | -33            | -                            | -              | 105            | 190         | V        |
| * 3.667         | 30.61                | ADR  | 33.2              | -30                 | 0.24         | 34.05                      | 54                 | -19.95      | -                   | -              | -                            | -              | 105            | 190         | V        |
| * 7.333         | 34.03                | PK-U | 35.6              | -25.2               | 0            | 44.43                      | -                  | -           | 74                  | -29.57         | -                            | -              | 122            | 169         | H        |
| * 7.333         | 26.73                | ADR  | 35.6              | -25.2               | 0.24         | 37.37                      | 54                 | -16.63      | -                   | -              | -                            | -              | 122            | 169         | H        |
| * 7.333         | 33.27                | PK-U | 35.6              | -25.2               | 0            | 43.67                      | -                  | -           | 74                  | -30.33         | -                            | -              | 134            | 120         | V        |
| * 7.333         | 26.59                | ADR  | 35.6              | -25.2               | 0.24         | 37.23                      | 54                 | -16.77      | -                   | -              | -                            | -              | 134            | 120         | V        |

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

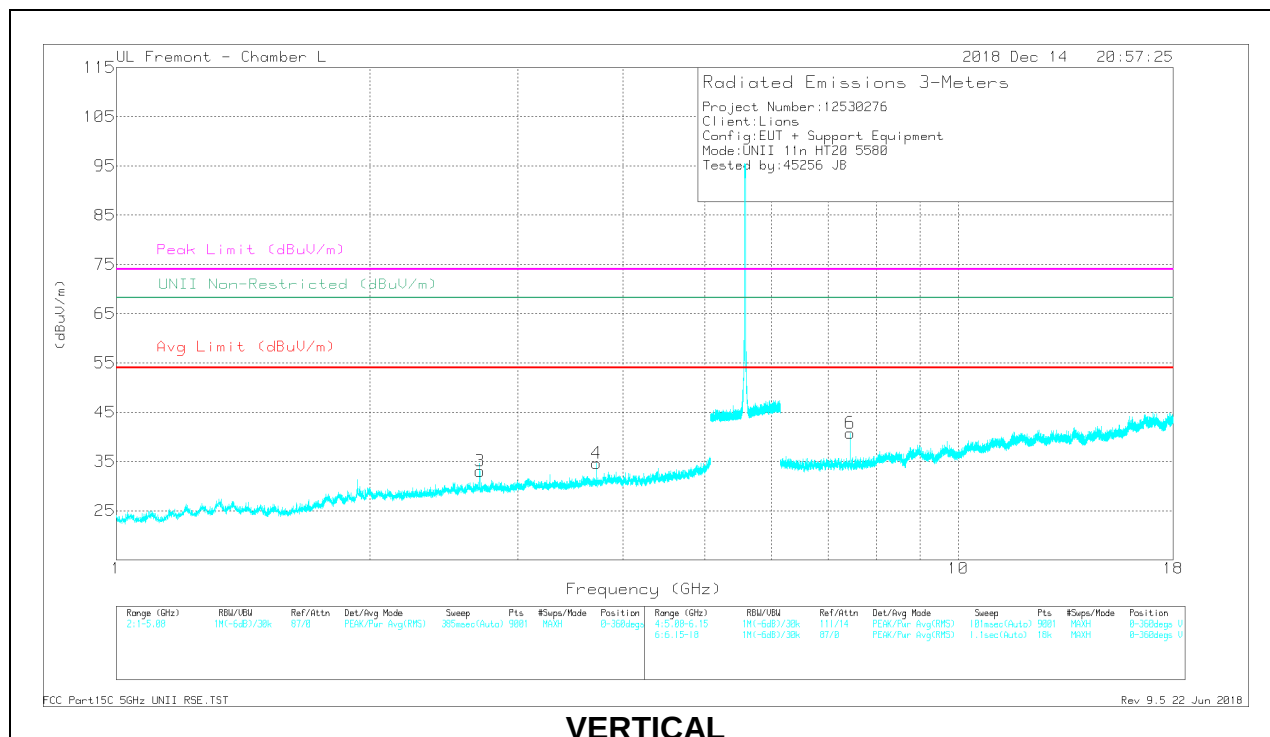
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## MID CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

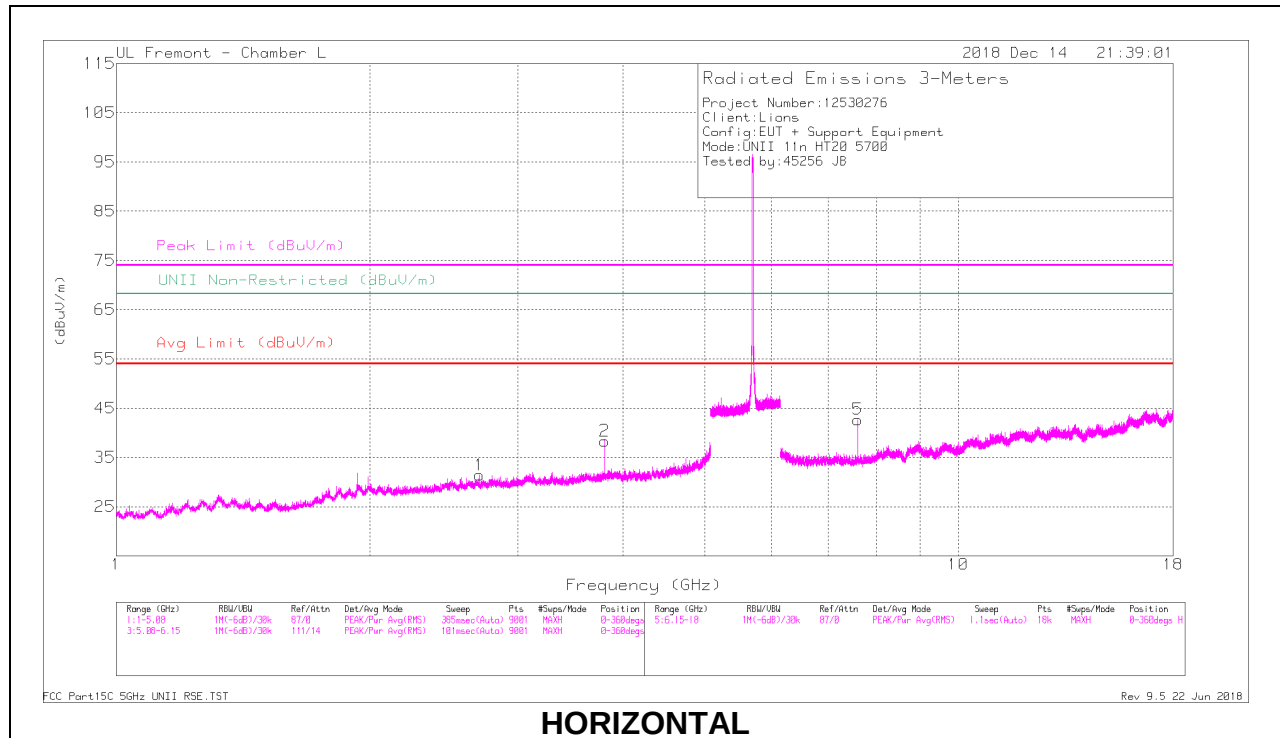
| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.705         | 36.04                | PK-U | 32.6              | -32.1               | 0            | 36.54                      | -                  | -           | 74                  | -37.46         | -                            | -              | 280            | 103         | H        |
| * 2.704         | 27.26                | ADR  | 32.6              | -32.1               | 0.24         | 28                         | 54                 | -26         | -                   | -              | -                            | -              | 280            | 103         | H        |
| * 3.72          | 39.52                | PK-U | 33.3              | -30.3               | 0            | 42.52                      | -                  | -           | 74                  | -31.48         | -                            | -              | 257            | 163         | H        |
| * 3.72          | 33.78                | ADR  | 33.3              | -30.3               | 0.24         | 37.02                      | 54                 | -16.98      | -                   | -              | -                            | -              | 257            | 163         | H        |
| * 2.706         | 37.09                | PK-U | 32.6              | -32.1               | 0            | 37.59                      | -                  | -           | 74                  | -36.41         | -                            | -              | 267            | 292         | V        |
| * 2.706         | 27.1                 | ADR  | 32.6              | -32.1               | 0.24         | 27.84                      | 54                 | -26.16      | -                   | -              | -                            | -              | 267            | 292         | V        |
| * 3.72          | 38.31                | PK-U | 33.3              | -30.3               | 0            | 41.31                      | -                  | -           | 74                  | -32.69         | -                            | -              | 111            | 184         | V        |
| * 3.72          | 30.89                | ADR  | 33.3              | -30.3               | 0.24         | 34.13                      | 54                 | -19.87      | -                   | -              | -                            | -              | 111            | 184         | V        |
| * 7.44          | 35.15                | PK-U | 35.7              | -24.8               | 0            | 46.05                      | -                  | -           | 74                  | -27.95         | -                            | -              | 159            | 163         | H        |
| * 7.44          | 30.11                | ADR  | 35.7              | -24.8               | 0.24         | 41.25                      | 54                 | -12.75      | -                   | -              | -                            | -              | 159            | 163         | H        |
| * 7.44          | 34.56                | PK-U | 35.7              | -24.8               | 0            | 45.46                      | -                  | -           | 74                  | -28.54         | -                            | -              | 139            | 155         | V        |
| * 7.44          | 30.17                | ADR  | 35.7              | -24.8               | 0.24         | 41.31                      | 54                 | -12.69      | -                   | -              | -                            | -              | 139            | 155         | V        |

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

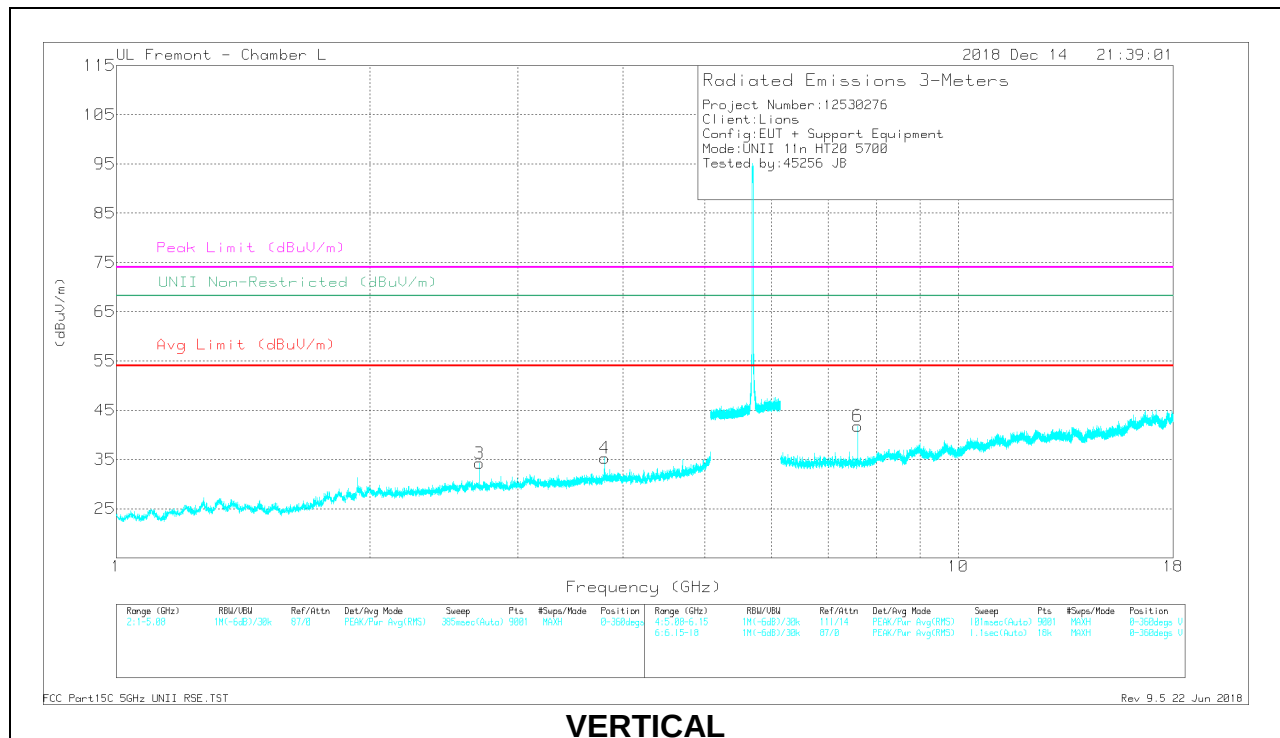
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## HIGH CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

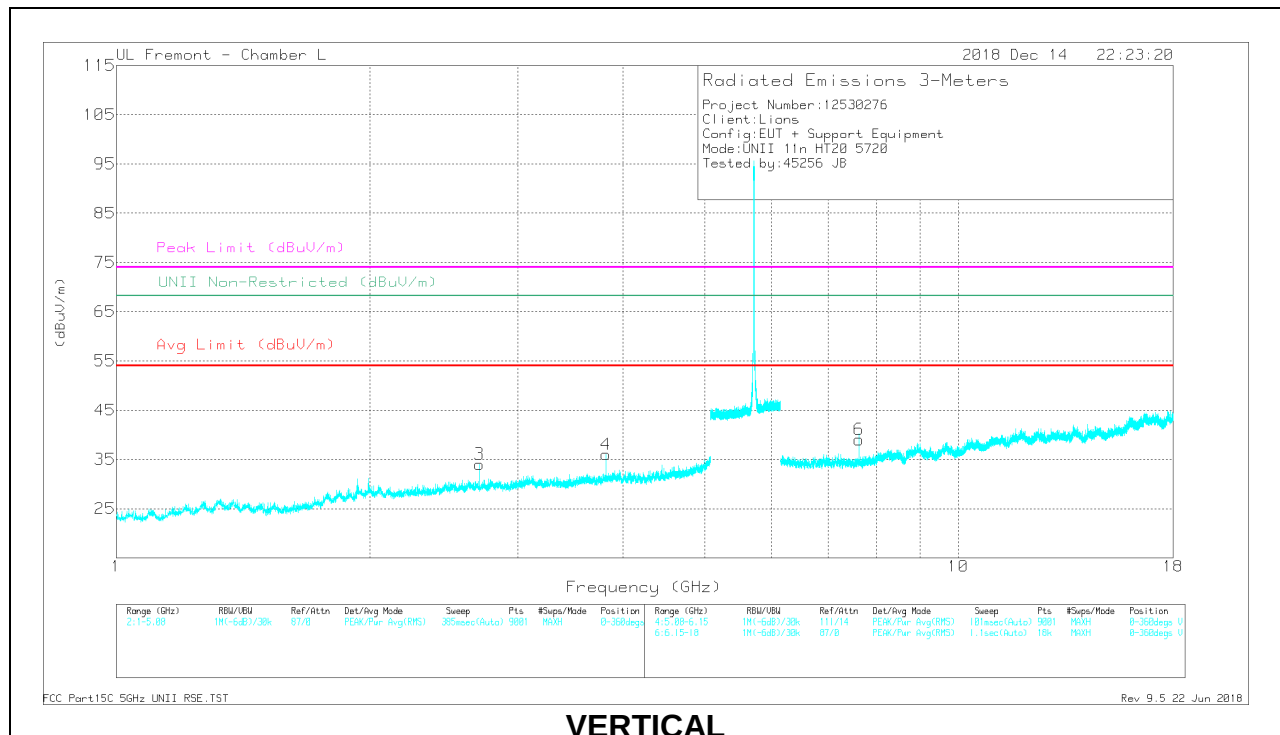
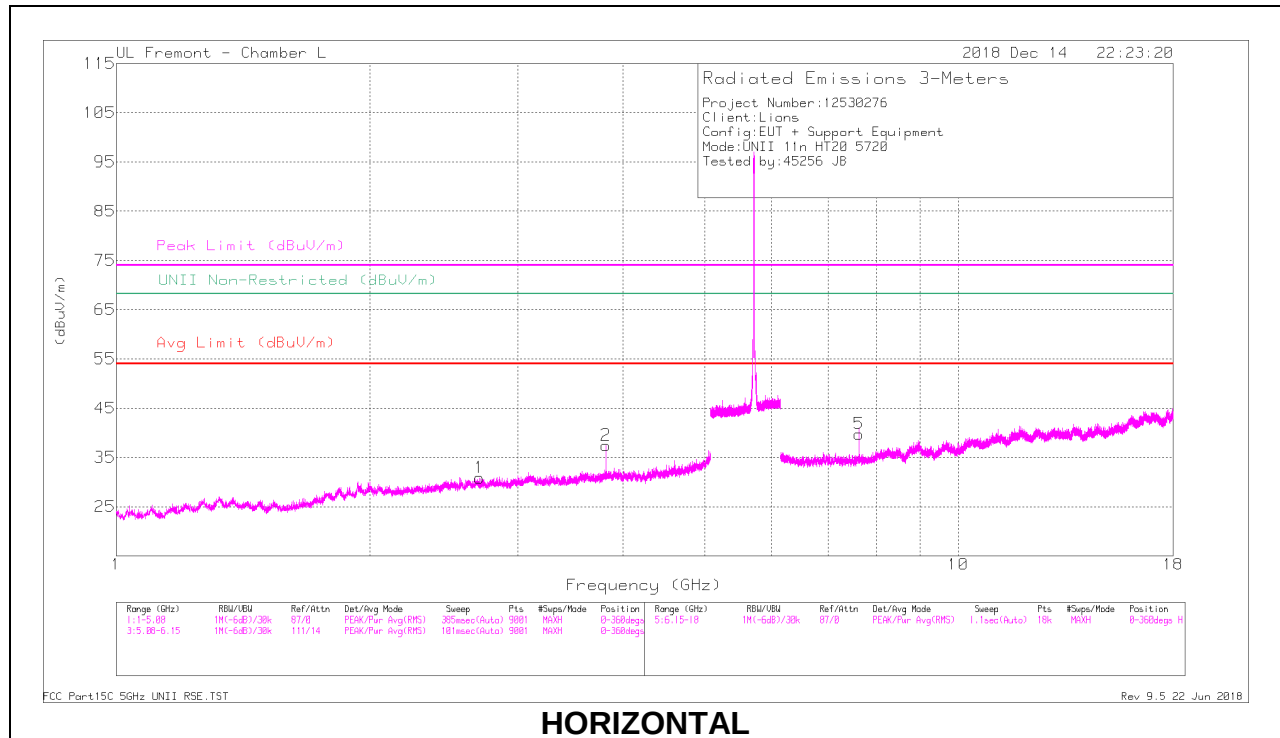
| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Chl/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|-----------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37                   | PK-U | 32.6              | -32.1                 | 0            | 37.5                       | -                  | -           | 74                  | -36.5          | -                            | -              | 174            | 140         | H        |
| * 2.7           | 28.33                | ADR  | 32.6              | -32.1                 | 0.24         | 29.07                      | 54                 | -24.93      | -                   | -              | -                            | -              | 174            | 140         | H        |
| * 3.8           | 39.69                | PK-U | 33.7              | -30.8                 | 0            | 42.59                      | -                  | -           | 74                  | -31.41         | -                            | -              | 116            | 140         | H        |
| * 3.8           | 33.12                | ADR  | 33.7              | -30.8                 | 0.24         | 36.26                      | 54                 | -17.74      | -                   | -              | -                            | -              | 116            | 140         | H        |
| * 2.7           | 39.07                | PK-U | 32.6              | -32.1                 | 0            | 39.57                      | -                  | -           | 74                  | -34.43         | -                            | -              | 247            | 104         | V        |
| * 2.7           | 33.09                | ADR  | 32.6              | -32.1                 | 0.24         | 33.83                      | 54                 | -20.17      | -                   | -              | -                            | -              | 247            | 104         | V        |
| * 3.8           | 38.17                | PK-U | 33.7              | -30.8                 | 0            | 41.07                      | -                  | -           | 74                  | -32.93         | -                            | -              | 200            | 104         | V        |
| * 3.8           | 29.8                 | ADR  | 33.7              | -30.8                 | 0.24         | 32.94                      | 54                 | -21.06      | -                   | -              | -                            | -              | 200            | 104         | V        |
| * 7.6           | 35.84                | PK-U | 35.7              | -24.6                 | 0            | 46.94                      | -                  | -           | 74                  | -27.06         | -                            | -              | 124            | 168         | H        |
| * 7.6           | 30.43                | ADR  | 35.7              | -24.6                 | 0.24         | 41.77                      | 54                 | -12.23      | -                   | -              | -                            | -              | 124            | 168         | H        |
| * 7.6           | 35.48                | PK-U | 35.7              | -24.6                 | 0            | 46.58                      | -                  | -           | 74                  | -27.42         | -                            | -              | 165            | 257         | V        |
| * 7.6           | 31.46                | ADR  | 35.7              | -24.6                 | 0.24         | 42.8                       | 54                 | -11.2       | -                   | -              | -                            | -              | 165            | 257         | 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

## CHANNEL 144 RESULTS



## RADIATED EMISSIONS

| Frequency (MHz) | Meter Reading (dBuV) | Det  | AF EMC4294 (dB/m) | Amp/Ch/Flt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | UNII Non-Restricted (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|-------------------|---------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 2.7           | 37.84                | PK-U | 32.6              | -32.1               | 0            | 38.34                      | -                  | -           | 74                  | -35.66         | -                            | -              | 159            | 258         | H        |
| * 2.7           | 29.32                | ADR  | 32.6              | -32.1               | 0.24         | 30.06                      | 54                 | -23.94      | -                   | -              | -                            | -              | 159            | 258         | H        |
| * 3.813         | 39.13                | PK-U | 33.7              | -30.5               | 0            | 42.33                      | -                  | -           | 74                  | -31.67         | -                            | -              | 121            | 136         | H        |
| * 3.813         | 32.3                 | ADR  | 33.7              | -30.5               | 0.24         | 35.74                      | 54                 | -18.26      | -                   | -              | -                            | -              | 121            | 136         | H        |
| * 2.7           | 38.82                | PK-U | 32.6              | -32.1               | 0            | 39.32                      | -                  | -           | 74                  | -34.68         | -                            | -              | 245            | 103         | V        |
| * 2.7           | 33.74                | ADR  | 32.6              | -32.1               | 0.24         | 34.48                      | 54                 | -19.52      | -                   | -              | -                            | -              | 245            | 103         | V        |
| * 3.813         | 38.24                | PK-U | 33.7              | -30.5               | 0            | 41.44                      | -                  | -           | 74                  | -32.56         | -                            | -              | 115            | 184         | V        |
| * 3.813         | 31.04                | ADR  | 33.7              | -30.5               | 0.24         | 34.48                      | 54                 | -19.52      | -                   | -              | -                            | -              | 115            | 184         | V        |
| * 7.627         | 34.29                | PK-U | 35.8              | -24.8               | 0            | 45.29                      | -                  | -           | 74                  | -28.71         | -                            | -              | 178            | 171         | H        |
| * 7.627         | 29.7                 | ADR  | 35.8              | -24.8               | 0.24         | 40.94                      | 54                 | -13.06      | -                   | -              | -                            | -              | 178            | 171         | H        |
| * 7.627         | 34.21                | PK-U | 35.8              | -24.8               | 0            | 45.21                      | -                  | -           | 74                  | -28.79         | -                            | -              | 166            | 243         | V        |
| * 7.627         | 29.21                | ADR  | 35.8              | -24.8               | 0.24         | 40.45                      | 54                 | -13.55      | -                   | -              | -                            | -              | 166            | 243         | V        |

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

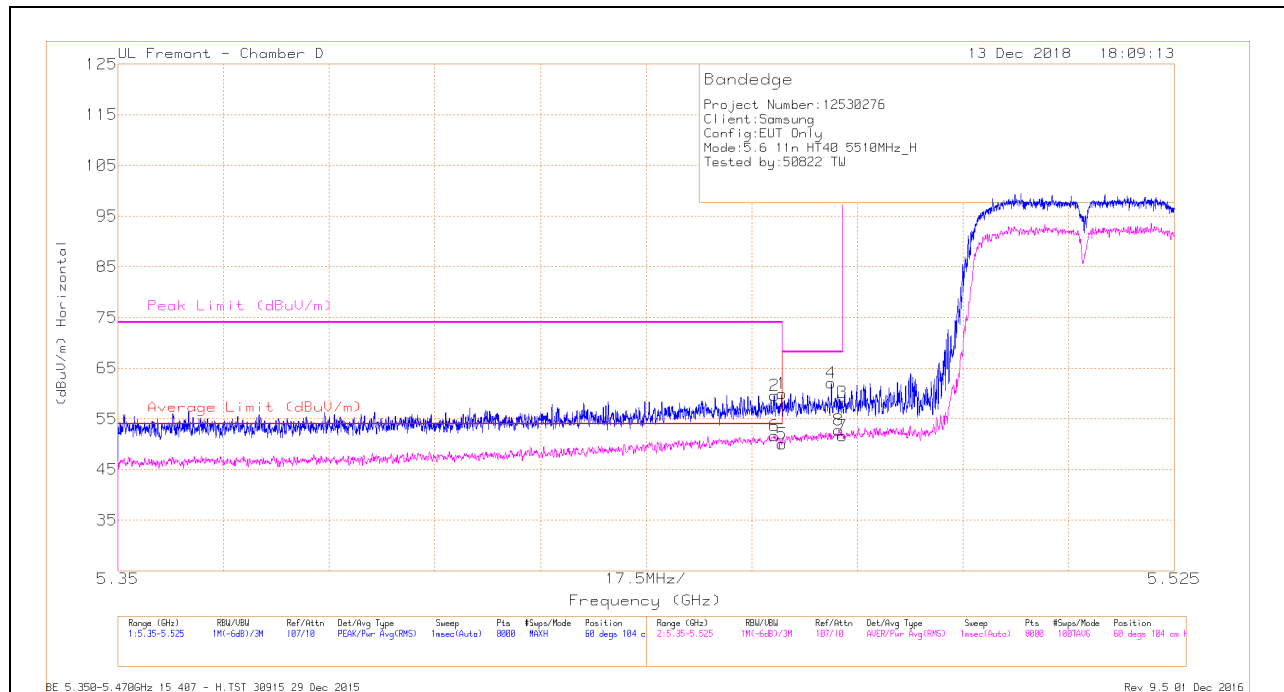
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**9.1.11. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

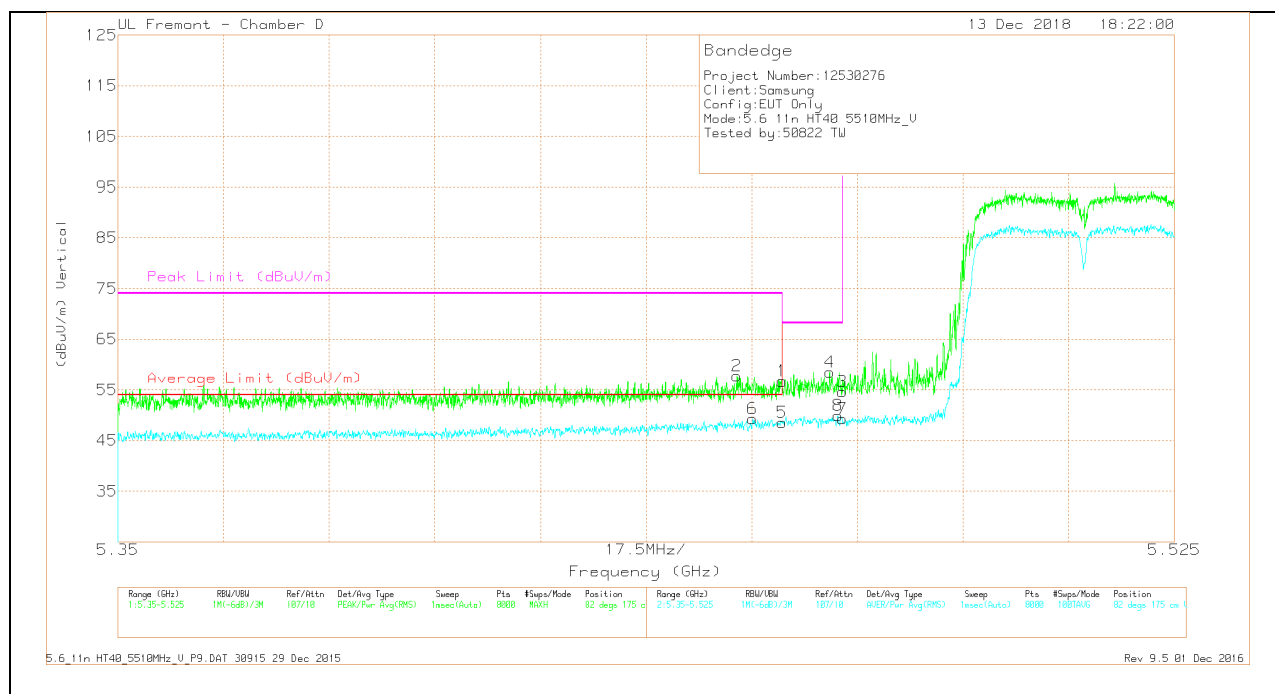
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AFT119 (dB/m) | Amp/Cb/Filt/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Altitude (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|---------------|----------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|-----------------|-------------|----------|
| 1      | * 5.46          | 42.3                 | Pk  | 34.6          | -16.9                | 0            | 60                         | -                      | -           | 74                  | -14            | 60              | 104         | H        |
| 2      | * 5.459         | 41.9                 | Pk  | 34.6          | -16.9                | 0            | 59.6                       | -                      | -           | 74                  | -14.4          | 60              | 104         | H        |
| 5      | * 5.46          | 31.73                | RMS | 34.6          | -16.9                | 0.58         | 50.01                      | 54                     | -3.99       | -                   | -              | 60              | 104         | H        |
| 6      | * 5.459         | 33.38                | RMS | 34.6          | -16.9                | 0.58         | 51.66                      | 54                     | -2.34       | -                   | -              | 60              | 104         | H        |
| 4      | 5.468           | 44.42                | Pk  | 34.6          | -16.9                | 0            | 62.12                      | -                      | -           | 68.2                | -6.08          | 60              | 104         | H        |
| 8      | 5.469           | 34.49                | RMS | 34.6          | -16.9                | 0.58         | 52.77                      | -                      | -           | -                   | -              | 60              | 104         | H        |
| 3      | 5.47            | 40.52                | Pk  | 34.6          | -16.9                | 0            | 58.22                      | -                      | -           | 68.2                | -9.98          | 60              | 104         | H        |
| 7      | 5.47            | 33.42                | RMS | 34.6          | -16.9                | 0.58         | 51.7                       | -                      | -           | -                   | -              | 60              | 104         | H        |

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

Pk - Peak detector

RMS - RMS detection

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Ftr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Asimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|---------------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 5.46          | 38.99                | Pk  | 34.6           | -16.9               | 0            | 56.69                      | -                      | -           | 74                  | -17.31         | 82             | 175         | V        |
| 2      | * 5.453         | 40.04                | Pk  | 34.6           | -16.9               | 0            | 57.74                      | -                      | -           | 74                  | -16.26         | 82             | 175         | V        |
| 5      | * 5.46          | 30.27                | RMS | 34.6           | -16.9               | 0.58         | 48.55                      | 54                     | -5.45       | -                   | -              | 82             | 175         | V        |
| 6      | * 5.455         | 31.01                | RMS | 34.6           | -16.9               | 0.58         | 49.29                      | 54                     | -4.71       | -                   | -              | 82             | 175         | V        |
| 4      | 5.468           | 40.83                | Pk  | 34.6           | -16.9               | 0            | 58.53                      | -                      | -           | 68.2                | -9.67          | 82             | 175         | V        |
| 8      | 5.469           | 31.58                | RMS | 34.6           | -16.9               | 0.58         | 49.86                      | -                      | -           | -                   | -              | 82             | 175         | V        |
| 3      | 5.47            | 36.93                | Pk  | 34.6           | -16.9               | 0            | 54.63                      | -                      | -           | 68.2                | -13.57         | 82             | 175         | V        |
| 7      | 5.47            | 31.05                | RMS | 34.6           | -16.9               | 0.58         | 49.33                      | -                      | -           | -                   | -              | 82             | 175         | V        |

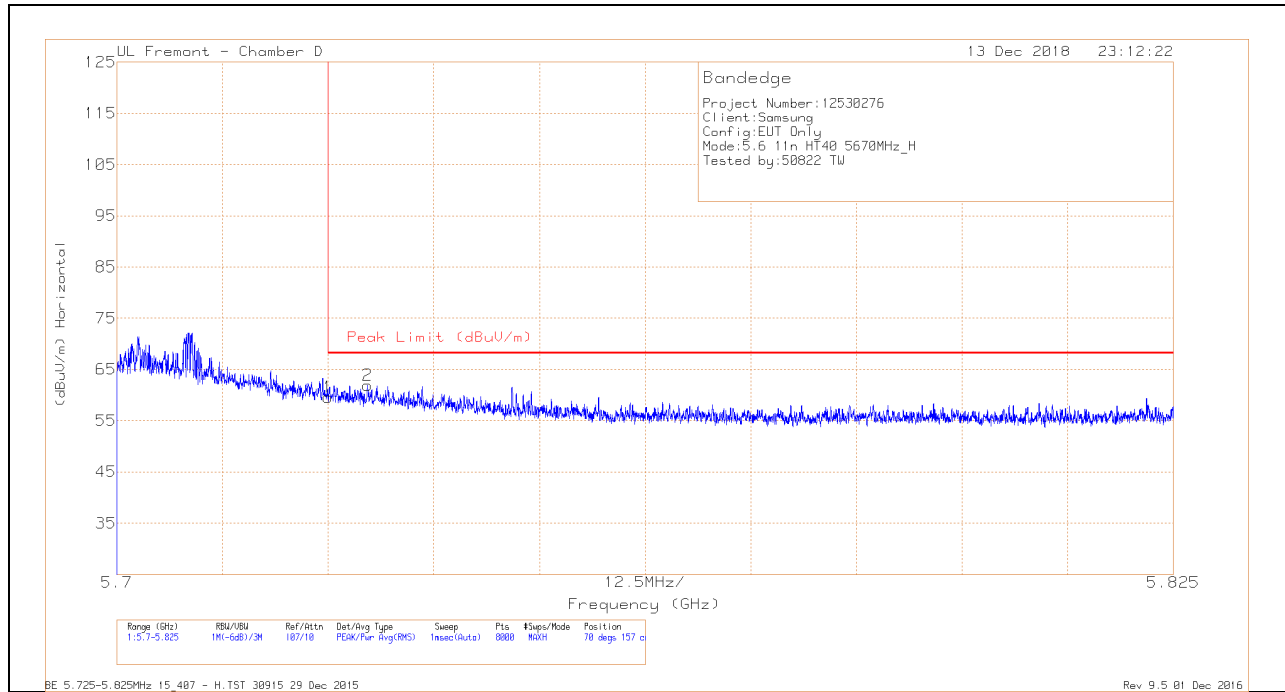
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT

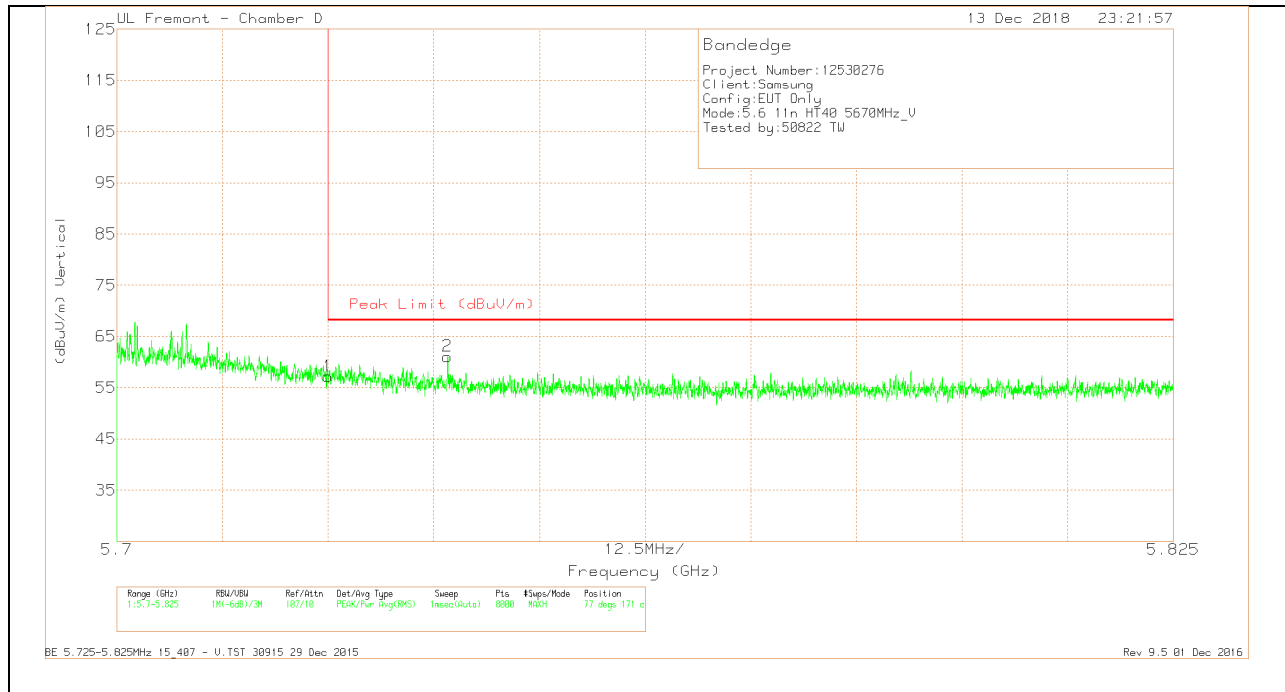


### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fitr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 41.3                 | Pk  | 34.8           | -16.5                 | 0            | 59.6                       | 68.2                | -8.6           | 70             | 157         | H        |
| 2      | 5.73            | 43.46                | Pk  | 34.8           | -16.4                 | 0            | 61.86                      | 68.2                | -6.34          | 70             | 157         | H        |

Pk - Peak detector

## VERTICAL RESULT



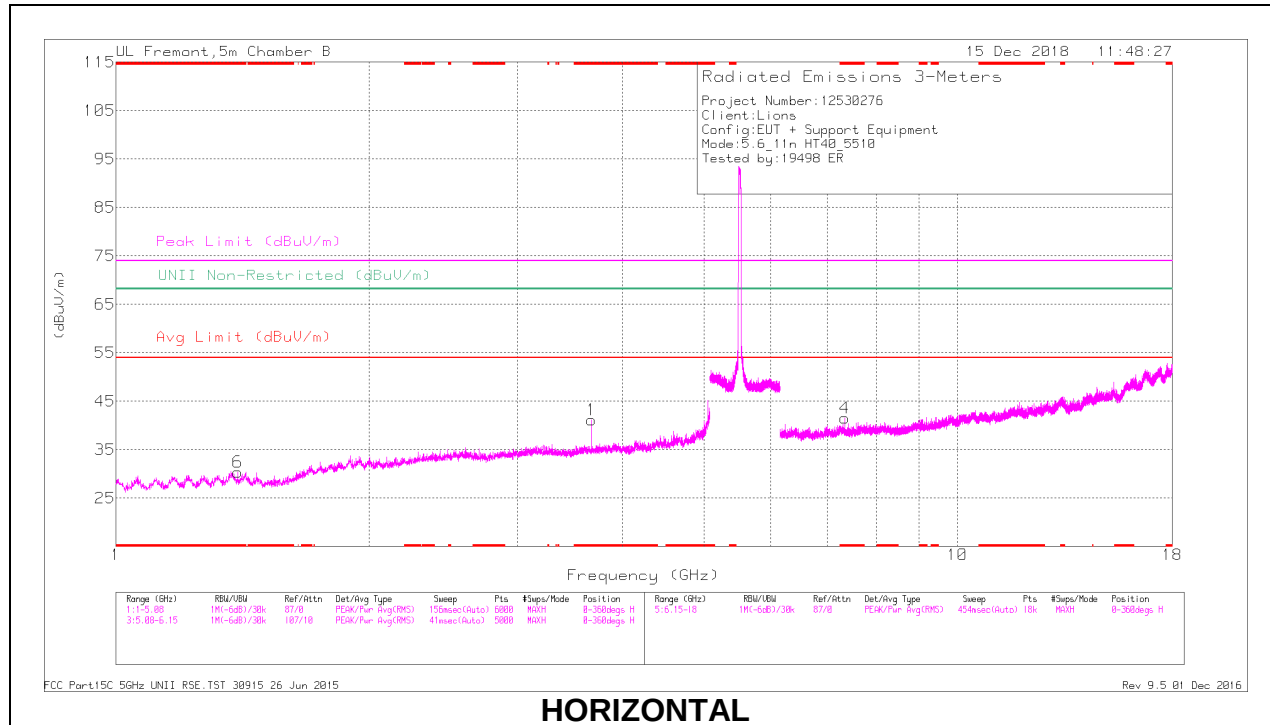
### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cb/Filtr/Pad (dB) | DC Corr (dB) | Corrected Reading (dBuV/m) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------|-----------------------|--------------|----------------------------|---------------------|----------------|----------------|-------------|----------|
| 1      | 5.725           | 38.91                | Pk  | 34.8           | -16.5                 | 0            | 57.21                      | 68.2                | -10.99         | 77             | 171         | V        |
| 2      | 5.739           | 42.71                | Pk  | 34.8           | -16.4                 | 0            | 61.11                      | 68.2                | -7.09          | 77             | 171         | V        |

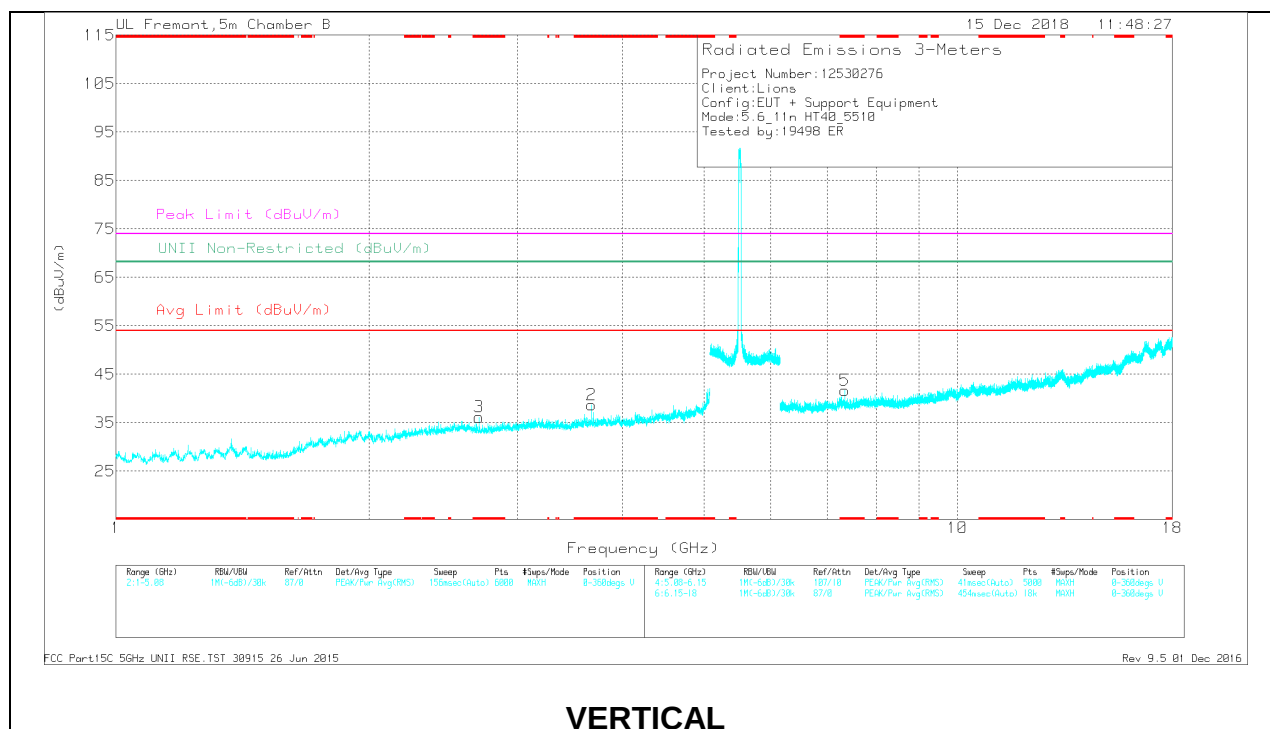
Pk - Peak detector

# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



## HORIZONTAL



## VERTICAL