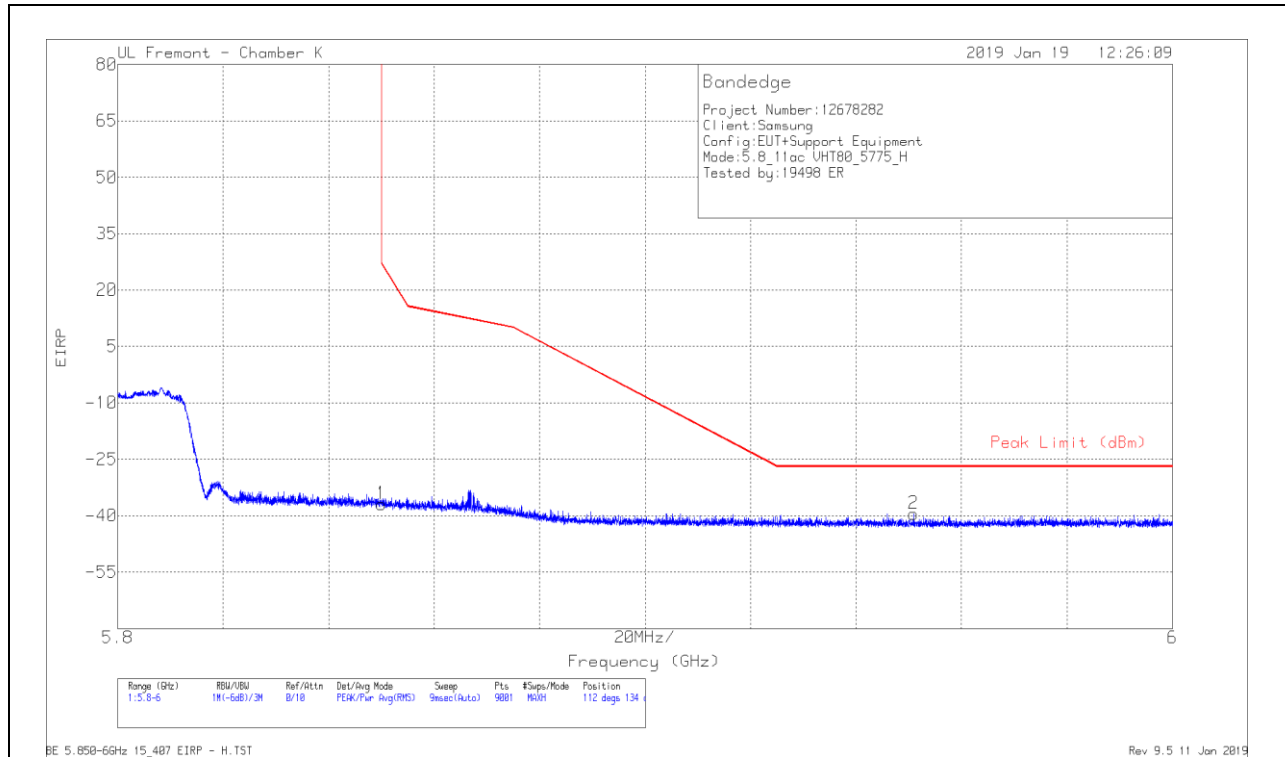


**BANDEDGE (CHANNEL 155 HIGH EDGE)**

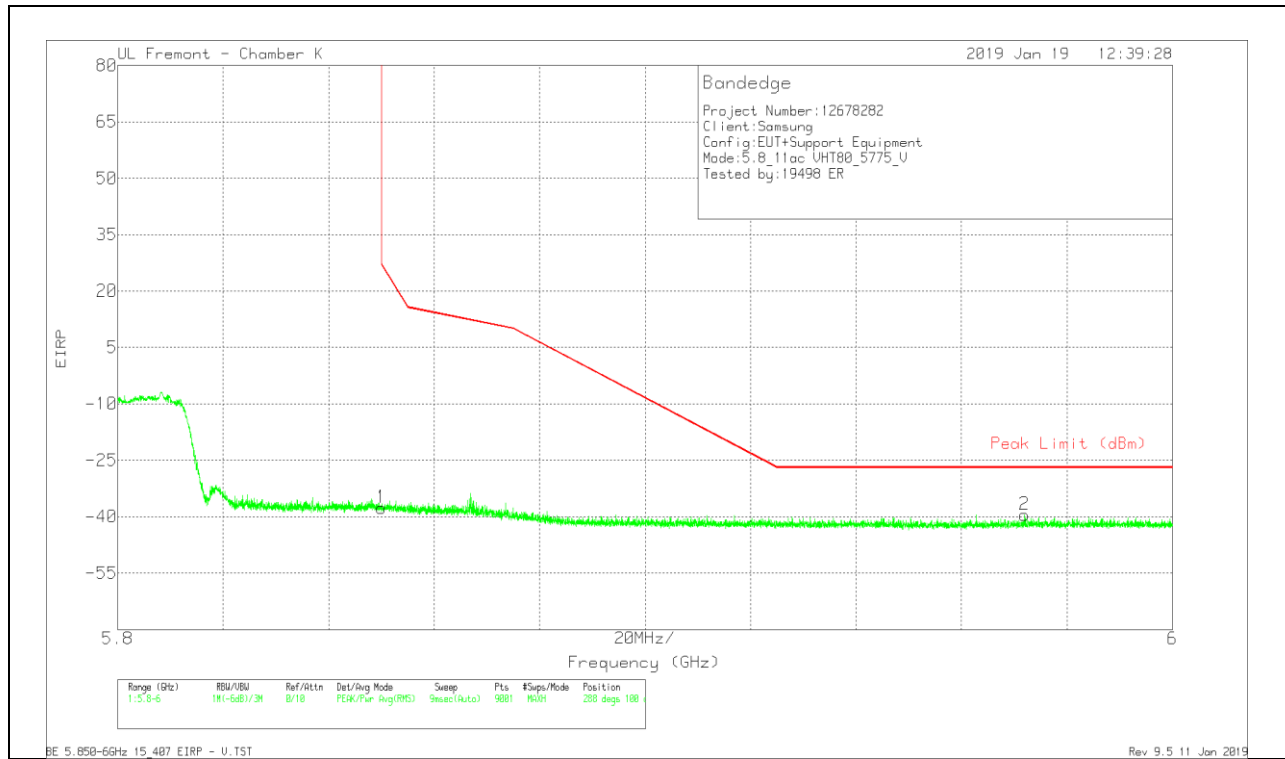
**HORIZONTAL RESULT**



| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T344 (dB/m) | Amp/Cbl/Filtr /Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -64.82              | Pk  | 35             | -18.9                   | 11.8                   | -36.92                 | 26.95            | -63.87         | 112            | 134         | H        |
| 2      | 5.951           | -67.68              | Pk  | 35.1           | -18.7                   | 11.8                   | -39.48                 | -27              | -12.48         | 112            | 134         | H        |

Pk - Peak detector

**VERTICAL RESULT**

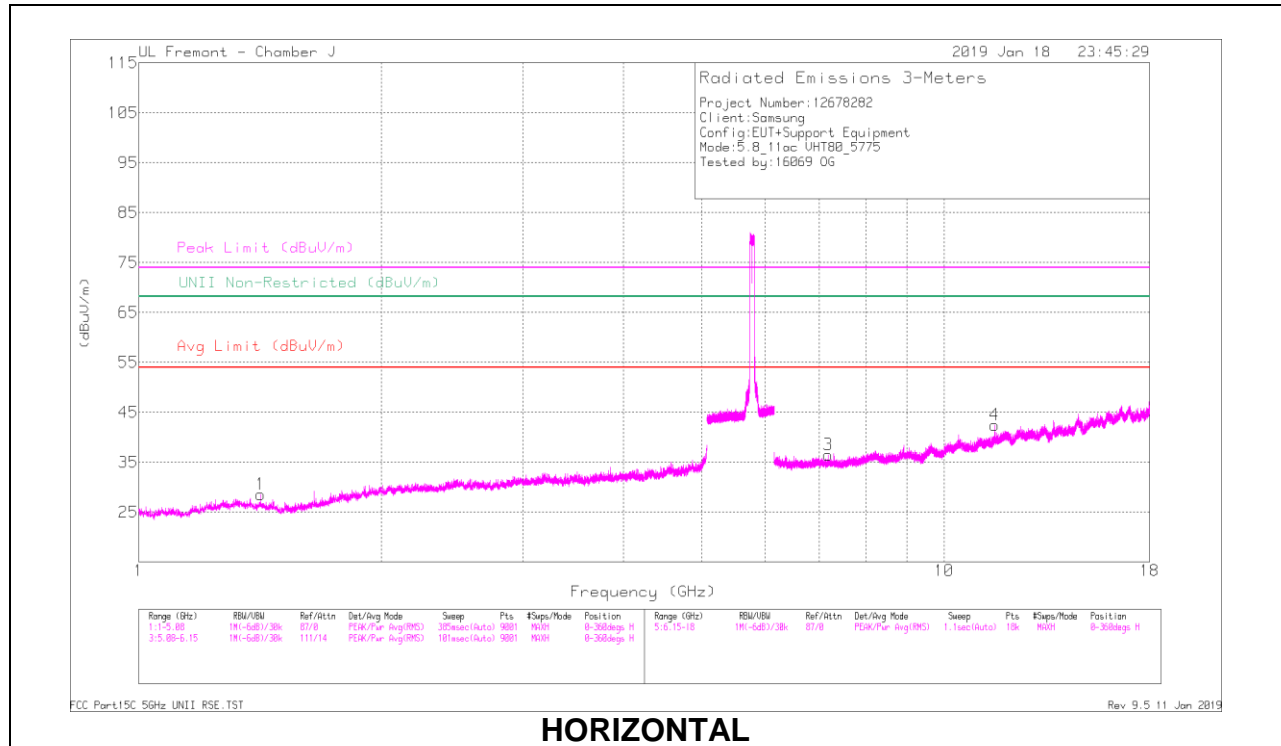


| Marker | Frequency (GHz) | Meter Reading (dBm) | Det | AF T344 (dB/m) | Amp/Cbl/Filtr /Pad (dB) | Conversion Factor (dB) | Corrected Reading EIRP | Peak Limit (dBm) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|---------------------|-----|----------------|-------------------------|------------------------|------------------------|------------------|----------------|----------------|-------------|----------|
| 1      | 5.85            | -65.59              | Pk  | 35             | -18.9                   | 11.8                   | -37.69                 | 26.95            | -64.64         | 288            | 100         | V        |
| 2      | 5.972           | -67.79              | Pk  | 35.1           | -18.6                   | 11.8                   | -39.49                 | -27              | -12.49         | 288            | 100         | V        |

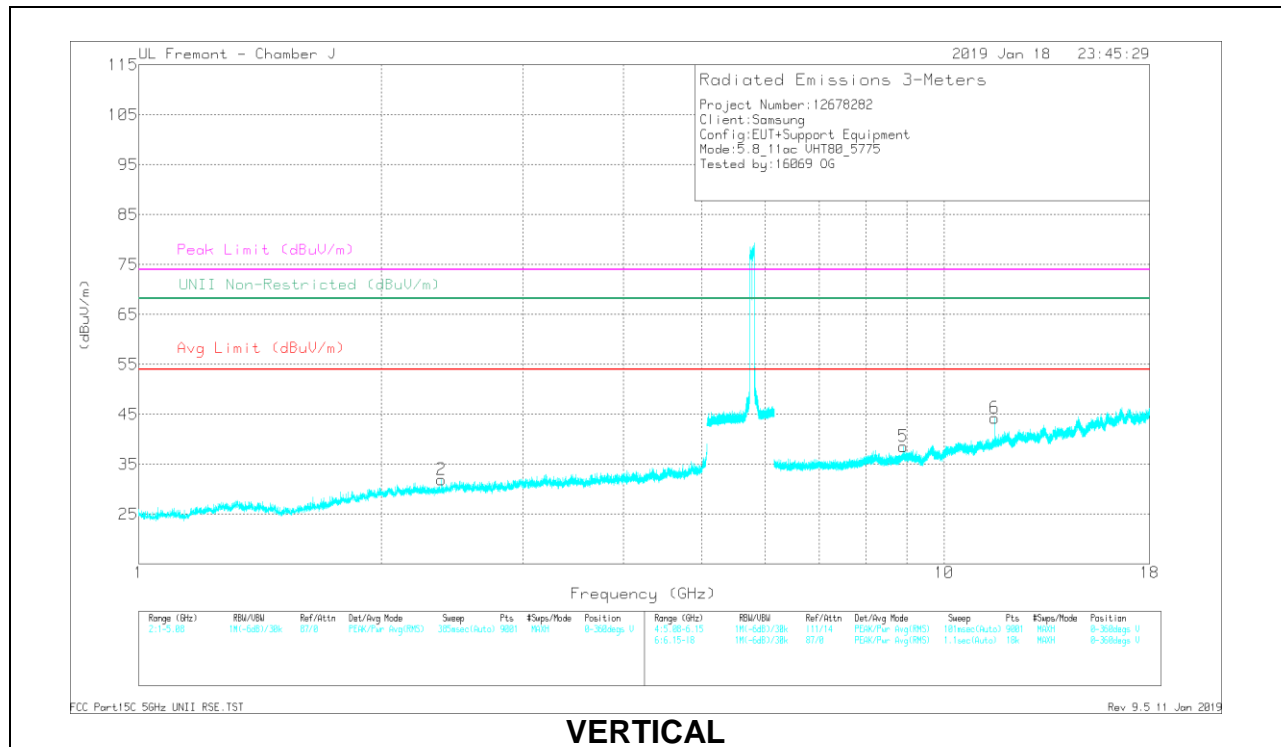
Pk - Peak detector

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

| Frequency (GHz) | Meter Reading (dBuV) | Det  | AF A10067 (dB/m) | Amp/Cable/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 |
|-----------------|----------------------|------|------------------|--------------------|--------------|----------------------------|--------------------|-------------|---------------------|----------------|------------------------------|----------------|----------------|-------------|----------|
| * 1.417         | 42.76                | PK-U | 28.8             | -35.9              | 0            | 35.66                      | -                  | -           | 74                  | -38.34         | -                            | -              | 163            | 222         | H        |
| * 1.417         | 31.69                | ADR  | 28.8             | -35.9              | 1.29         | 25.88                      | 54                 | -28.12      | -                   | -              | -                            | -              | 163            | 222         | H        |
| * 2.378         | 41.69                | PK-U | 32               | -35.5              | 0            | 38.09                      | -                  | -           | 74                  | -35.91         | -                            | -              | 43             | 220         | V        |
| * 2.378         | 31.68                | ADR  | 32               | -35.5              | 1.29         | 29.47                      | 54                 | -24.53      | -                   | -              | -                            | -              | 43             | 220         | V        |
| * 11.55         | 34.37                | PK-U | 38.3             | -23.6              | 0            | 49.07                      | -                  | -           | 74                  | -24.93         | -                            | -              | 292            | 109         | H        |
| * 11.55         | 26.64                | ADR  | 38.3             | -23.6              | 1.29         | 42.63                      | 54                 | -11.37      | -                   | -              | -                            | -              | 292            | 109         | H        |
| 7.183           | 34.57                | PK-U | 35.6             | -27.3              | 0            | 42.87                      | -                  | -           | -                   | -              | 68.2                         | -25.33         | 18             | 257         | H        |
| * 11.55         | 35.65                | PK-U | 38.3             | -23.6              | 0            | 50.35                      | -                  | -           | 74                  | -23.65         | -                            | -              | 294            | 103         | V        |
| * 11.55         | 28.4                 | ADR  | 38.3             | -23.6              | 1.29         | 44.39                      | 54                 | -9.61       | -                   | -              | -                            | -              | 294            | 103         | V        |
| 8.902           | 33.89                | PK-U | 35.9             | -25.1              | 0            | 44.69                      | -                  | -           | -                   | -              | 68.2                         | -23.51         | 4              | 246         | V        |

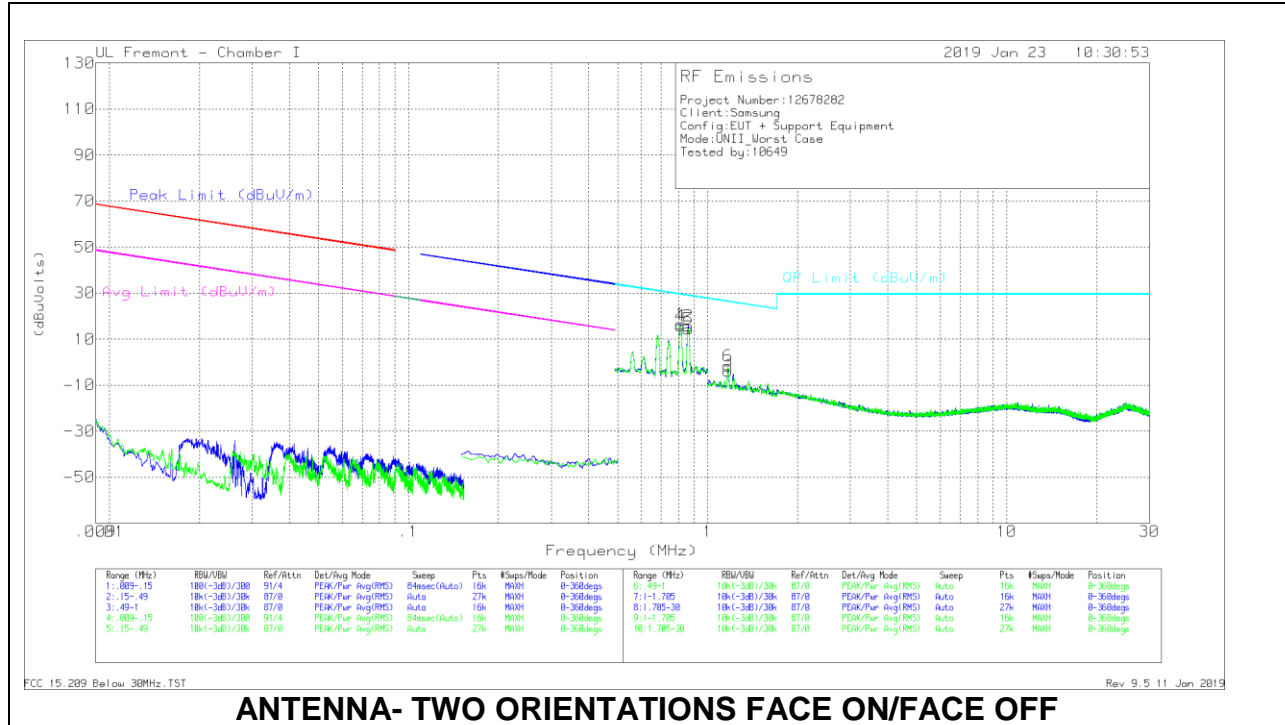
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

## 9.2. Worst Case Below 30MHz

### SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION)



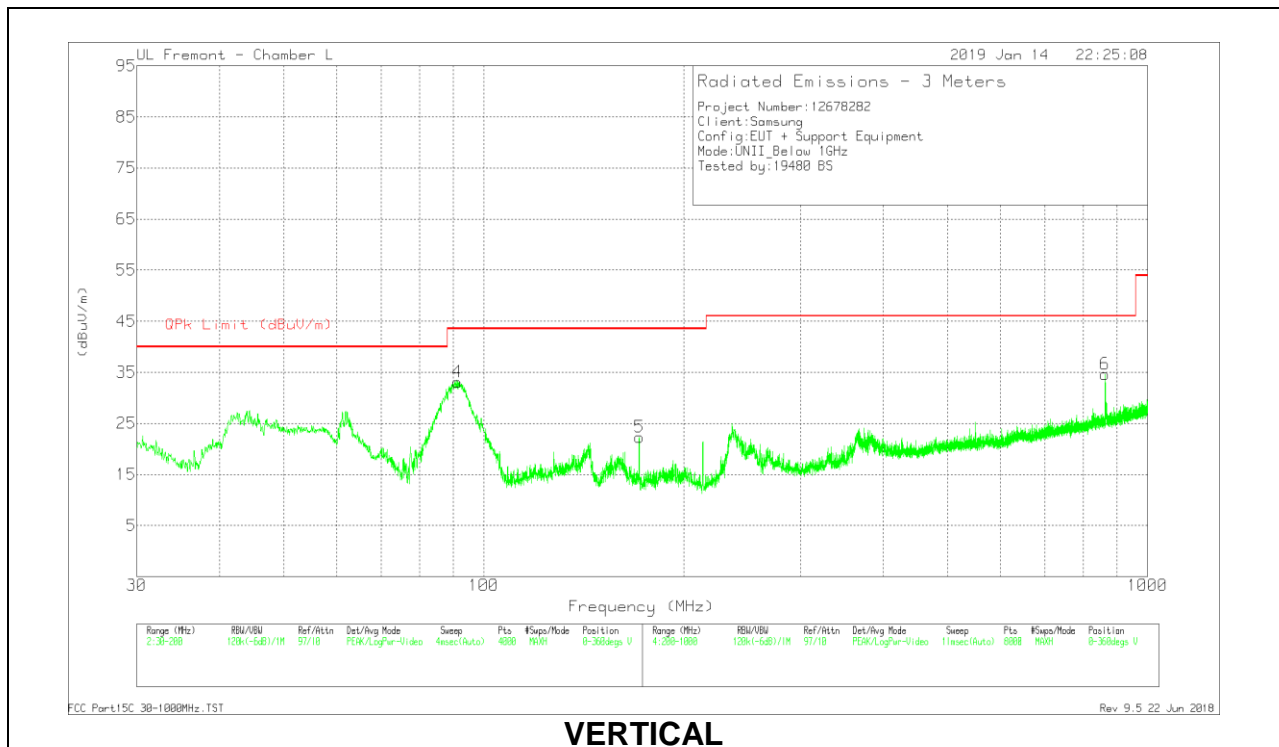
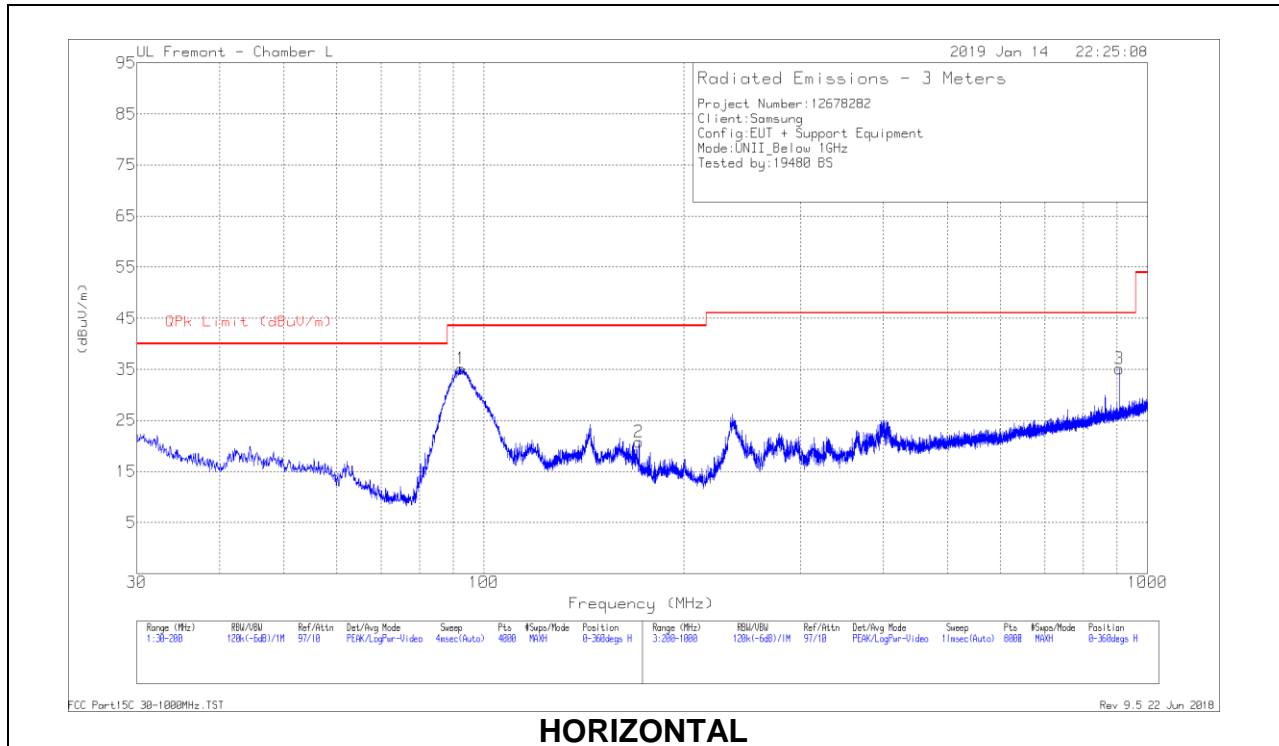
**ANTENNA- TWO ORIENTATIONS FACE ON/FACE OFF**

Below 30MHz Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | Loop Antenna (ACF) | Cable s w/ PRE0 18017 5 (dB) | Dist Corr 30m (dB) 40Log | Corrected Reading (dBuVolts) | QP Limit (dBuV /m) | Margin (dB) | Azimuth (Degs) |
|--------|-----------------|----------------------|-----|--------------------|------------------------------|--------------------------|------------------------------|--------------------|-------------|----------------|
| 1      | .81069          | 32.17                | Pk  | 56.3               | -31.8                        | -40                      | 16.67                        | 29.44              | -12.77      | 0-360          |
| 2      | .86157          | 31.3                 | Pk  | 56.3               | -31.8                        | -40                      | 15.8                         | 28.91              | -13.11      | 0-360          |
| 4      | .81035          | 31.18                | Pk  | 56.3               | -31.8                        | -40                      | 15.68                        | 29.44              | -13.76      | 0-360          |
| 5      | .8617           | 30                   | Pk  | 56.3               | -31.8                        | -40                      | 14.5                         | 28.91              | -14.41      | 0-360          |
| 3      | 1.16867         | 22.44                | Pk  | 45.5               | -31.8                        | -40                      | -3.86                        | 26.27              | -30.13      | 0-360          |
| 6      | 1.17039         | 24.62                | Pk  | 45.5               | -31.8                        | -40                      | -1.68                        | 26.26              | -27.94      | 0-360          |

Pk - Peak detector

### 9.3. Worst Case Below 1 GHz



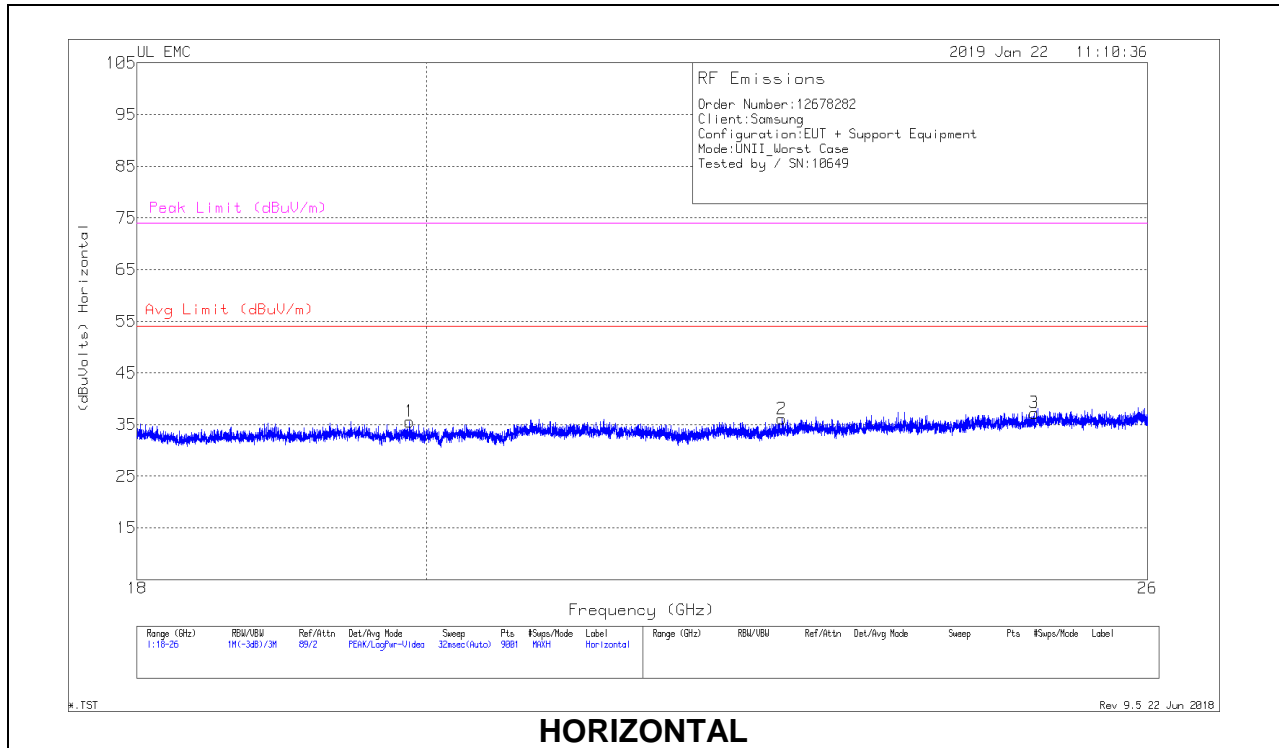
**Below 1GHz DATA**

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF PRE0184970 (dB/m) | Amp/Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|----------------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 92.4061         | 52.07                | Pk  | 14                   | -31          | 35.07                      | 43.52              | -8.45       | 0-360          | 299         | H        |
| 2      | * 171.3491      | 33.8                 | Pk  | 17.5                 | -30.5        | 20.8                       | 43.52              | -22.72      | 0-360          | 102         | H        |
| 4      | 91.2584         | 50.28                | Pk  | 13.8                 | -31          | 33.08                      | 43.52              | -10.44      | 0-360          | 102         | V        |
| 5      | * 171.3916      | 35.31                | Pk  | 17.5                 | -30.5        | 22.31                      | 43.52              | -21.21      | 0-360          | 102         | V        |
| 3      | 907.0919        | 34.54                | Pk  | 28.1                 | -27.5        | 35.14                      | 46.02              | -10.88      | 0-360          | 199         | H        |
| 6      | 863.2862        | 34.58                | Pk  | 27.6                 | -27.6        | 34.58                      | 46.02              | -11.44      | 0-360          | 102         | V        |

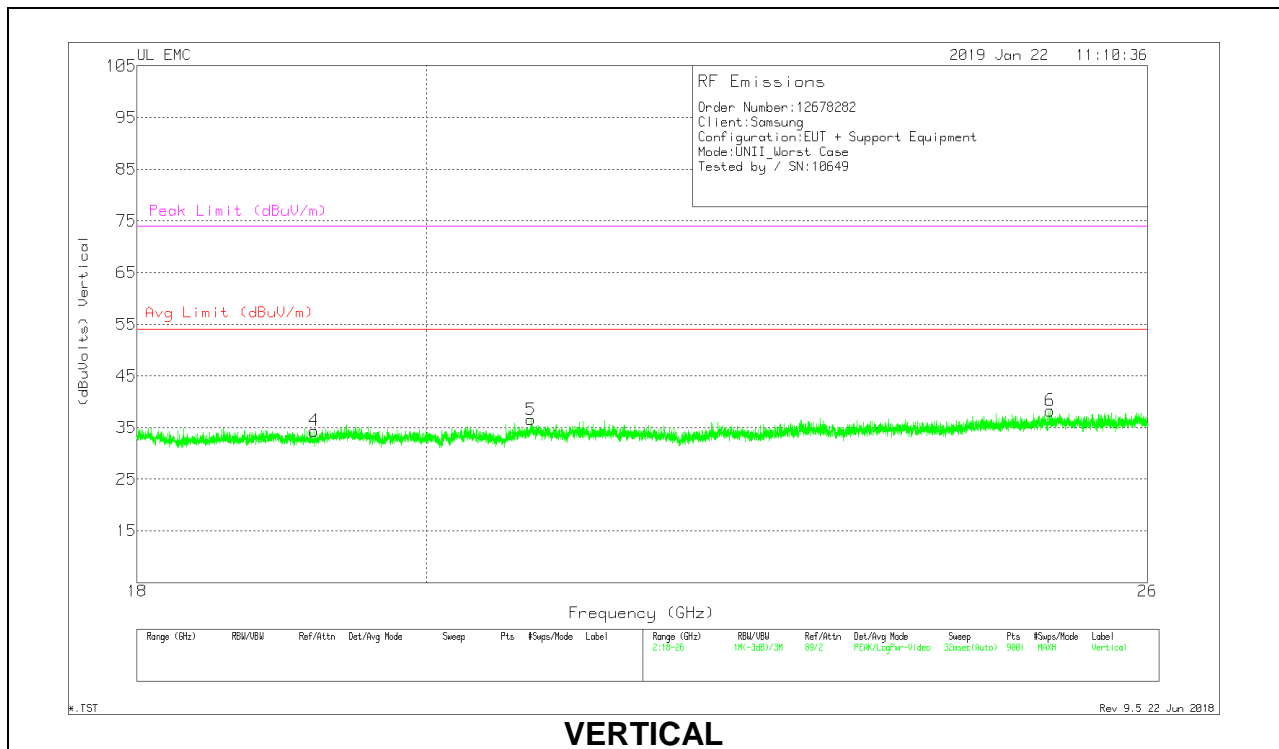
Pk - Peak detector



### 9.4. Worst Case 18-26 GHz



**HORIZONTAL**



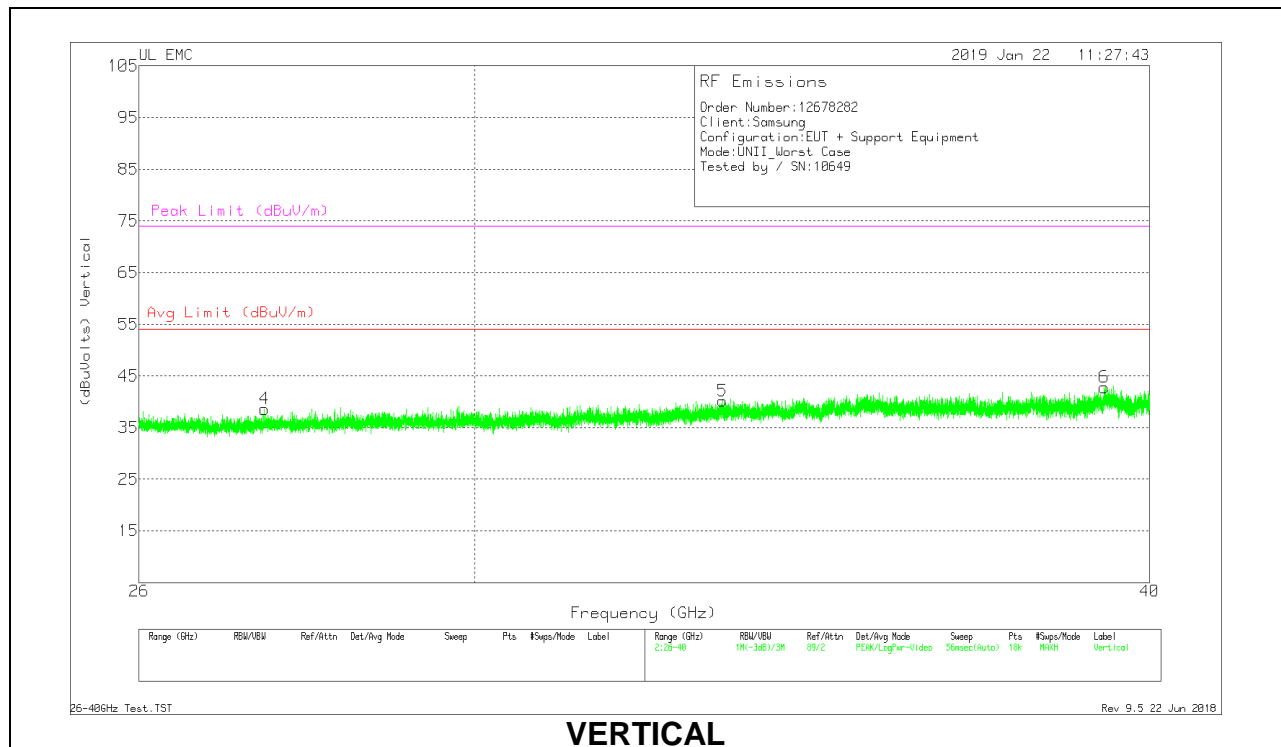
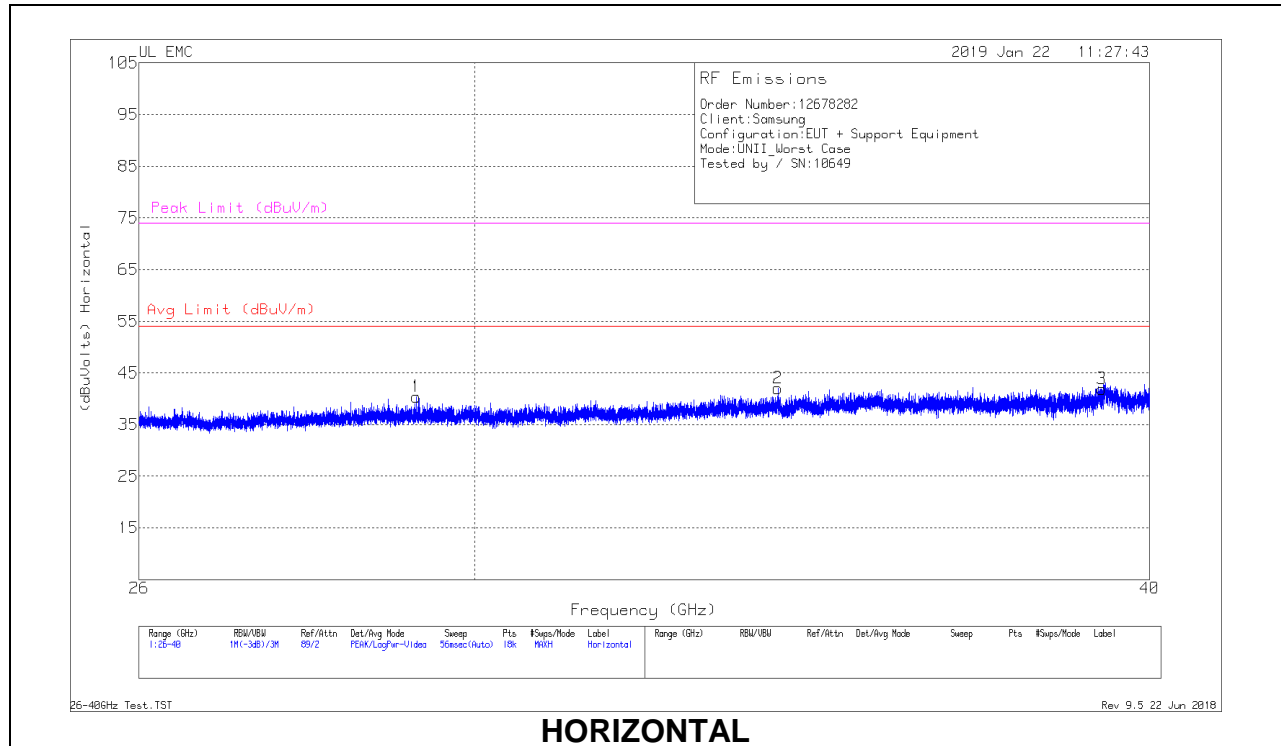
**VERTICAL**

**18 – 26GHz DATA**

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | T448 AF<br>(dB/m) | Amp/Cbl (dB) | Dist Corr<br>(dB) | Corrected<br>Reading<br>(dBuVolts<br>) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) |
|--------|------------------------|----------------------------|-----|-------------------|--------------|-------------------|--|-----------------------|----------------|------------------------|----------------------|
| 1      | 19.876                 | 69.2                       | Pk  | 32.6              | -56.7        | -9.5              | 35.6                                   | 54                    | -18.4          | 74                     | -38.4                |
| 2      | 22.762                 | 69.72                      | Pk  | 33.5              | -57.6        | -9.5              | 36.12                                  | 54                    | -17.88         | 74                     | -37.88               |
| 3      | 24.95                  | 67.85                      | Pk  | 34.4              | -55.5        | -9.5              | 37.25                                  | 54                    | -16.75         | 74                     | -36.75               |
| 4      | 19.197                 | 68.57                      | Pk  | 32.6              | -57.3        | -9.5              | 34.37                                  | 54                    | -19.63         | 74                     | -39.63               |
| 5      | 20.772                 | 69.76                      | Pk  | 33                | -56.7        | -9.5              | 36.56                                  | 54                    | -17.44         | 74                     | -37.44               |
| 6      | 25.094                 | 68.27                      | Pk  | 34.6              | -55.1        | -9.5              | 38.27                                  | 54                    | -15.73         | 74                     | -35.73               |

Pk - Peak detector

### 9.5. Worst Case 26-40 GHz



**26 – 40GHz DATA**

| Marker | Frequenc<br>y<br>(GHz) | Meter<br>Reading<br>(dBuV) | Det | T90 AF<br>(dB/m) | Amp/Cbl (dB) | Dist Corr<br>(dB) | Corrected<br>Reading<br>(dBuVolts<br>) | Avg Limit<br>(dBuV/m) | Margin<br>(dB) | Peak Limit<br>(dBuV/m) | PK<br>Margin<br>(dB) |
|--------|------------------------|----------------------------|-----|------------------|--------------|-------------------|--|-----------------------|----------------|------------------------|----------------------|
| 1      | 29.262                 | 67.18                      | Pk  | 35.9             | -53.2        | -9.5              | 40.38                                  | 54                    | -13.62         | 74                     | -33.62               |
| 2      | 34.138                 | 68.75                      | Pk  | 36.9             | -54.1        | -9.5              | 42.05                                  | 54                    | -11.95         | 74                     | -31.95               |
| 3      | 39.195                 | 67.67                      | Pk  | 38.3             | -54.6        | -9.5              | 41.87                                  | 54                    | -12.13         | 74                     | -32.13               |
| 4      | 27.428                 | 69.3                       | Pk  | 35.7             | -56.9        | -9.5              | 38.6                                   | 54                    | -15.4          | 74                     | -35.4                |
| 5      | 33.34                  | 66.96                      | Pk  | 37               | -54.3        | -9.5              | 40.16                                  | 54                    | -13.84         | 74                     | -33.84               |
| 6      | 39.233                 | 68.4                       | Pk  | 38.5             | -54.6        | -9.5              | 42.8                                   | 54                    | -11.2          | 74                     | -31.2                |

Pk - Peak detector

## 10. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

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

\*Decreases with the logarithm of the frequency.

### TEST PROCEDURE

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

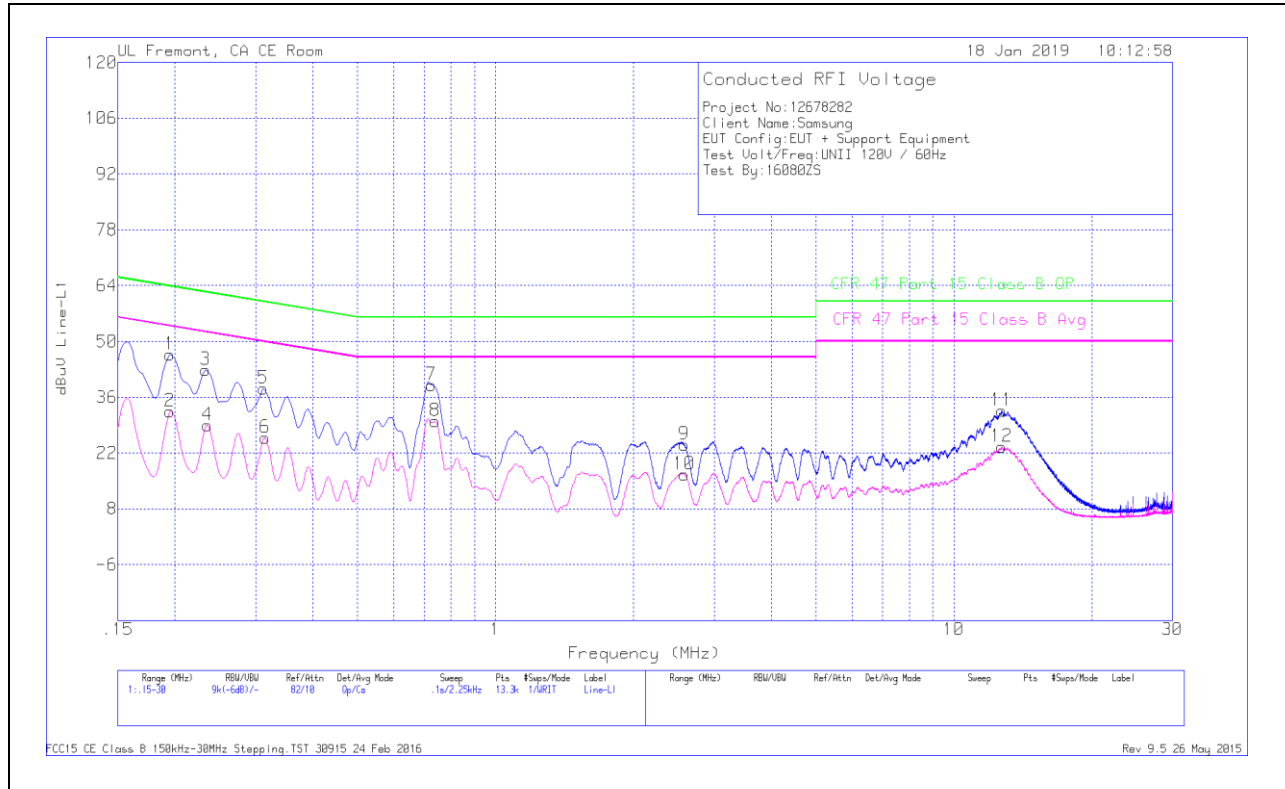
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

### RESULTS

10.1.1. AC Power Line Norm

LINE 1 RESULTS

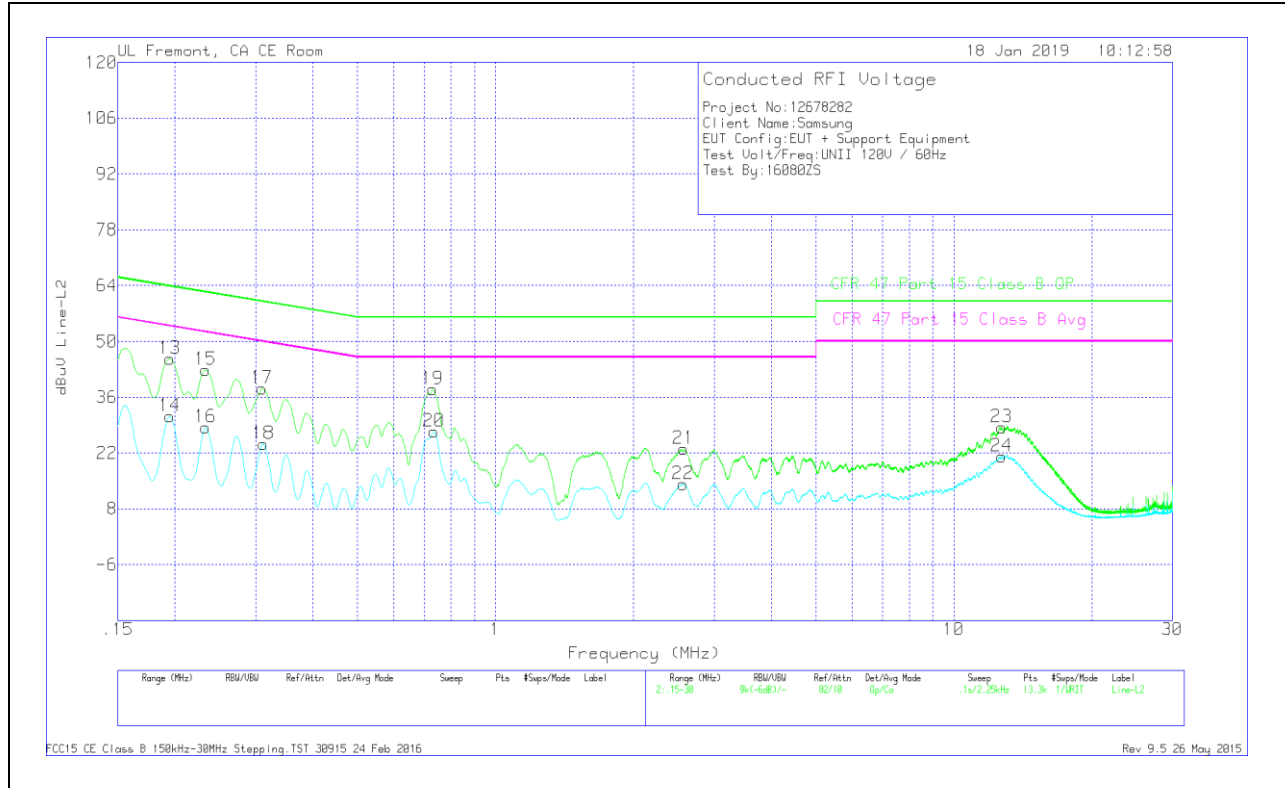


| Range 1: Line-L1 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 1                            | .195            | 36.54                | Qp  | 0       | 0               | 10.1         | 46.64                  | 63.82                     | -17.18         | -                          | -                    |
| 2                            | .195            | 22.42                | Ca  | 0       | 0               | 10.1         | 32.52                  | -                         | -              | 53.82                      | -21.3                |
| 3                            | .23325          | 32.83                | Qp  | 0       | 0               | 10.1         | 42.93                  | 62.33                     | -19.4          | -                          | -                    |
| 4                            | .2355           | 18.87                | Ca  | 0       | 0               | 10.1         | 28.97                  | -                         | -              | 52.25                      | -23.28               |
| 5                            | .312            | 28.02                | Qp  | 0       | 0               | 10.1         | 38.12                  | 59.92                     | -21.8          | -                          | -                    |
| 6                            | .31425          | 15.66                | Ca  | 0       | 0               | 10.1         | 25.76                  | -                         | -              | 49.86                      | -24.1                |
| 7                            | .726            | 29                   | Qp  | 0       | 0               | 10.1         | 39.1                   | 56                        | -16.9          | -                          | -                    |
| 8                            | .7395           | 19.83                | Ca  | 0       | 0               | 10.1         | 29.93                  | -                         | -              | 46                         | -16.07               |
| 9                            | 2.5845          | 13.89                | Qp  | 0       | .1              | 10.1         | 24.09                  | 56                        | -31.91         | -                          | -                    |
| 10                           | 2.58113         | 6.49                 | Ca  | 0       | .1              | 10.1         | 16.69                  | -                         | -              | 46                         | -29.31               |
| 11                           | 12.741          | 22.04                | Qp  | .1      | .2              | 10.2         | 32.54                  | 60                        | -27.46         | -                          | -                    |
| 12                           | 12.7275         | 13.01                | Ca  | .1      | .2              | 10.2         | 23.51                  | -                         | -              | 50                         | -26.49               |

Qp - Quasi-Peak detector

Ca - CISPR average detection

**LINE 2 RESULTS**



| Range 2: Line-L2 .15 - 30MHz |                 |                      |     |         |                 |              |                        |                           |                |                            |                      |
|------------------------------|-----------------|----------------------|-----|---------|-----------------|--------------|------------------------|---------------------------|----------------|----------------------------|----------------------|
| Marker                       | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR)Margin (dB) |
| 13                           | .195            | 35.51                | Qp  | 0       | 0               | 10.1         | 45.61                  | 63.82                     | -18.21         | -                          | -                    |
| 14                           | .195            | 21.15                | Ca  | 0       | 0               | 10.1         | 31.25                  | -                         | -              | 53.82                      | -22.57               |
| 15                           | .23325          | 32.71                | Qp  | 0       | 0               | 10.1         | 42.81                  | 62.33                     | -19.52         | -                          | -                    |
| 16                           | .23325          | 18.28                | Ca  | 0       | 0               | 10.1         | 28.38                  | -                         | -              | 52.33                      | -23.95               |
| 17                           | .30975          | 28.05                | Qp  | 0       | 0               | 10.1         | 38.15                  | 59.98                     | -21.83         | -                          | -                    |
| 18                           | .312            | 14.15                | Ca  | 0       | 0               | 10.1         | 24.25                  | -                         | -              | 49.92                      | -25.67               |
| 19                           | .7305           | 27.84                | Qp  | 0       | 0               | 10.1         | 37.94                  | 56                        | -18.06         | -                          | -                    |
| 20                           | .735            | 17.24                | Ca  | 0       | 0               | 10.1         | 27.34                  | -                         | -              | 46                         | -18.66               |
| 21                           | 2.57775         | 12.83                | Qp  | 0       | .1              | 10.1         | 23.03                  | 56                        | -32.97         | -                          | -                    |
| 22                           | 2.5665          | 3.99                 | Ca  | 0       | .1              | 10.1         | 14.19                  | -                         | -              | 46                         | -31.81               |
| 23                           | 12.7376         | 17.87                | Qp  | .1      | .2              | 10.2         | 28.37                  | 60                        | -31.63         | -                          | -                    |
| 24                           | 12.7376         | 10.71                | Ca  | .1      | .2              | 10.2         | 21.21                  | -                         | -              | 50                         | -28.79               |

Qp - Quasi-Peak detector

Ca - CISPR average detection