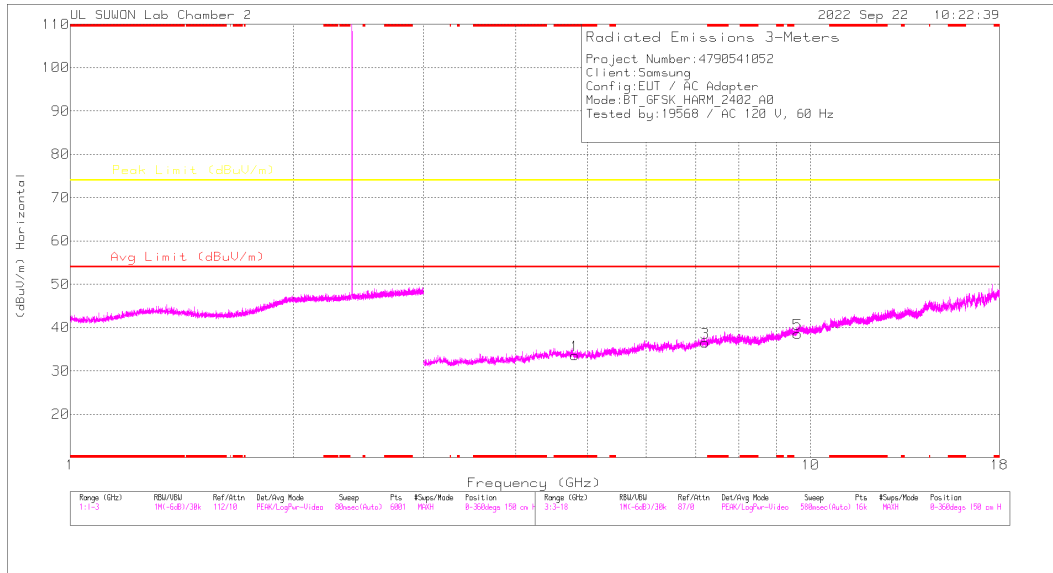
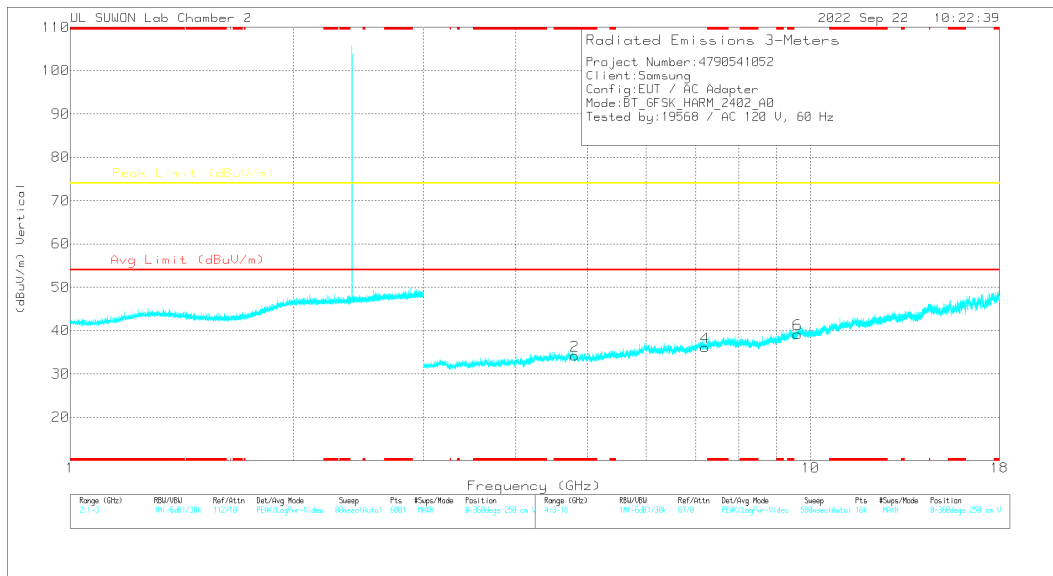


## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



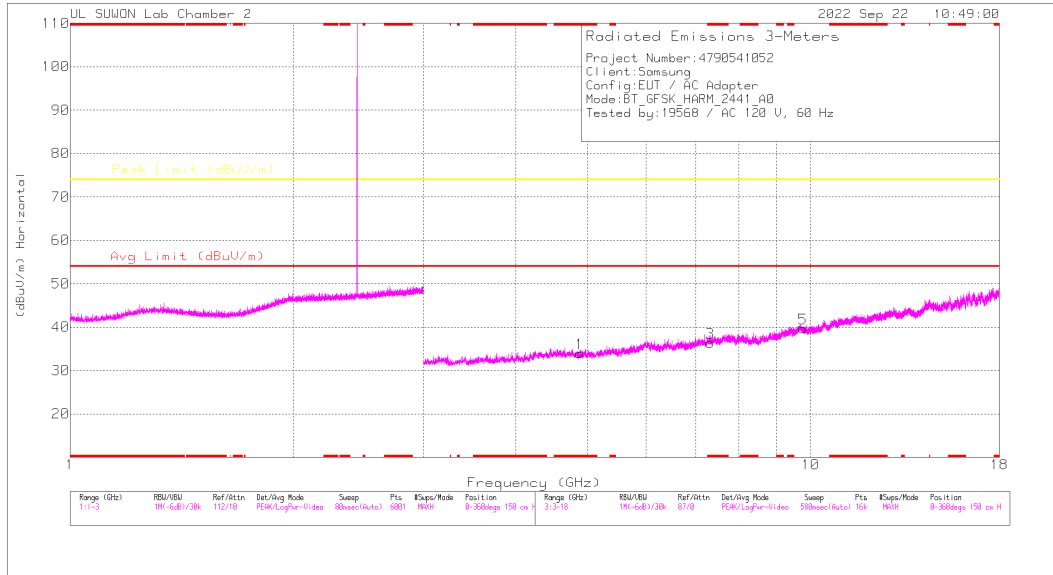
### VERTICAL

### RADIATED EMISSIONS

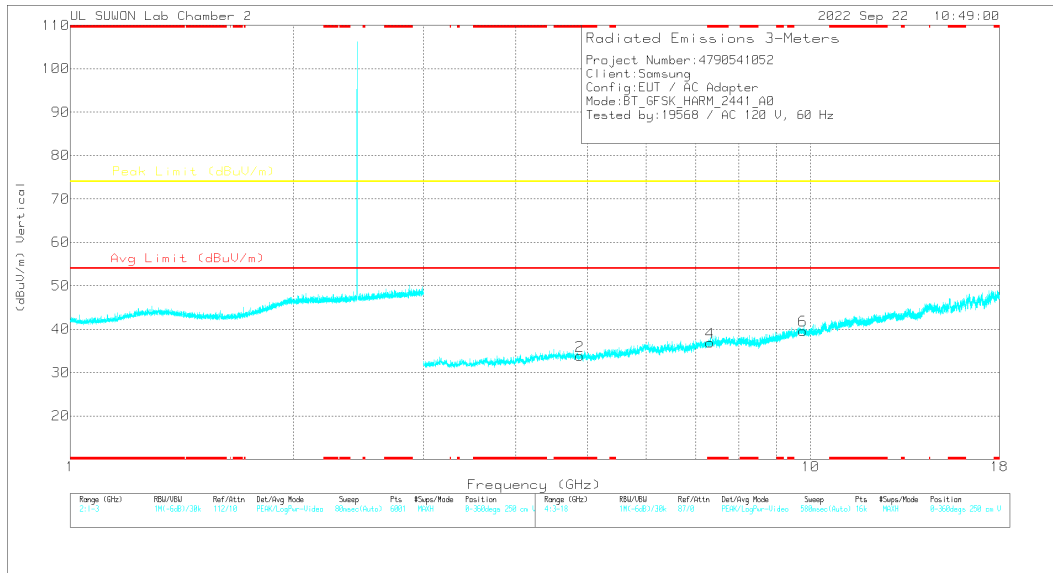
| Frequency (GHz) | Meter Reading (dBUV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBUV/m) | Avg Limit (dBUV/m) | Margin (dB) | Peak Limit (dBUV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.81327       | 35.14                | PKFH | 34            | -27.7       | 41.44                      | -                  | -           | 74                  | -32.56      | 0              | 100         | H        |
| * 4.81027       | 35.21                | PKFH | 34            | -27.8       | 41.41                      | -                  | -           | 74                  | -32.59      | 0              | 100         | V        |
| 7.1859          | 33.91                | PKFH | 35.6          | -24.9       | 44.61                      | -                  | -           | 74                  | -29.39      | 0              | 100         | H        |
| 7.21077         | 33.54                | PKFH | 35.7          | -25.1       | 44.14                      | -                  | -           | 74                  | -29.86      | 0              | 100         | V        |
| 9.60168         | 32.32                | PKFH | 36.9          | -21.3       | 47.92                      | -                  | -           | 74                  | -26.08      | 0              | 100         | H        |
| 9.59058         | 32.29                | PKFH | 36.9          | -21.4       | 47.79                      | -                  | -           | 74                  | -26.21      | 0              | 100         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

### 39 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

### RADIATED EMISSIONS

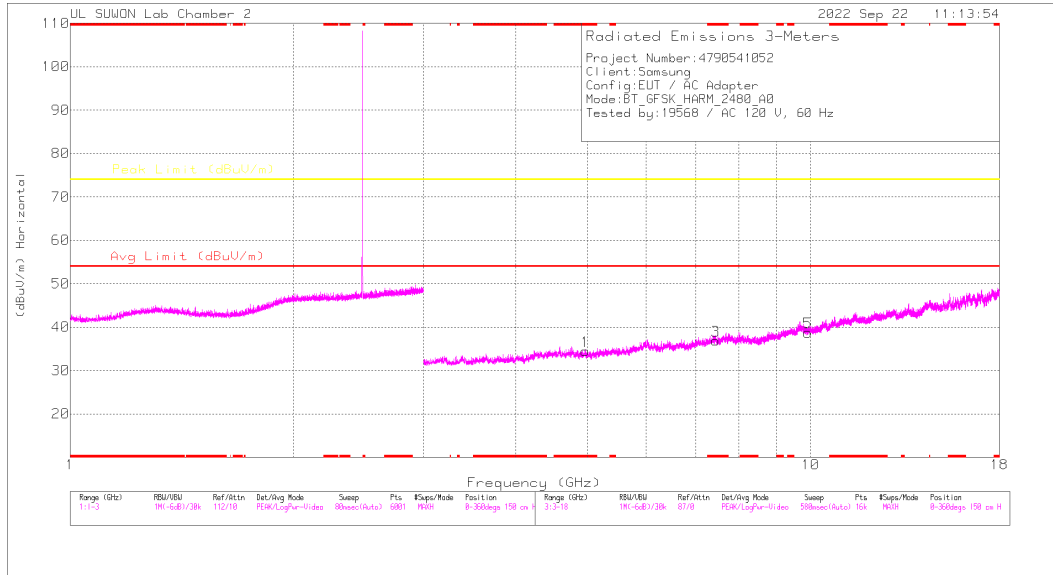
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.87797       | 35.39                | PKFH | 34            | -27.7       | 41.69                      | -                  | -           | 74                  | -32.31      | 0              | 100         | H        |
| * 4.90088       | 35.43                | PKFH | 34            | -27.4       | 42.03                      | -                  | -           | 74                  | -31.97      | 0              | 100         | V        |
| * 7.33325       | 33.71                | PKFH | 35.7          | -24.3       | 45.11                      | -                  | -           | 74                  | -28.89      | 0              | 100         | H        |
| * 7.30092       | 34.58                | PKFH | 35.7          | -24.8       | 45.48                      | -                  | -           | 74                  | -28.52      | 0              | 100         | V        |
| 9.75887         | 31.96                | PKFH | 37.1          | -20.9       | 48.16                      | -                  | -           | 74                  | -25.84      | 0              | 100         | H        |
| 9.75692         | 31.48                | PKFH | 37.1          | -20.9       | 47.68                      | -                  | -           | 74                  | -26.32      | 0              | 100         | V        |

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

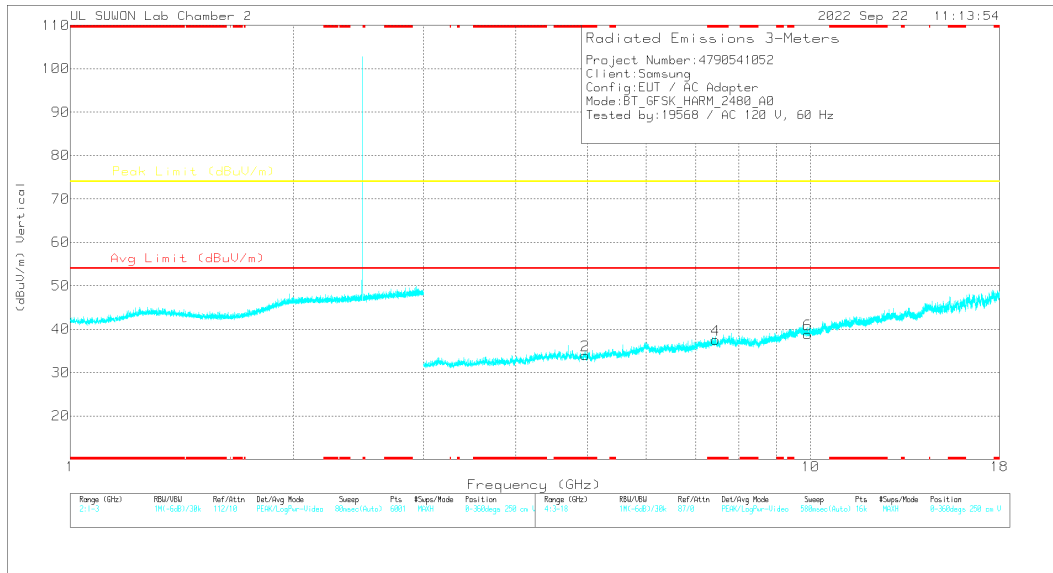
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

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

## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

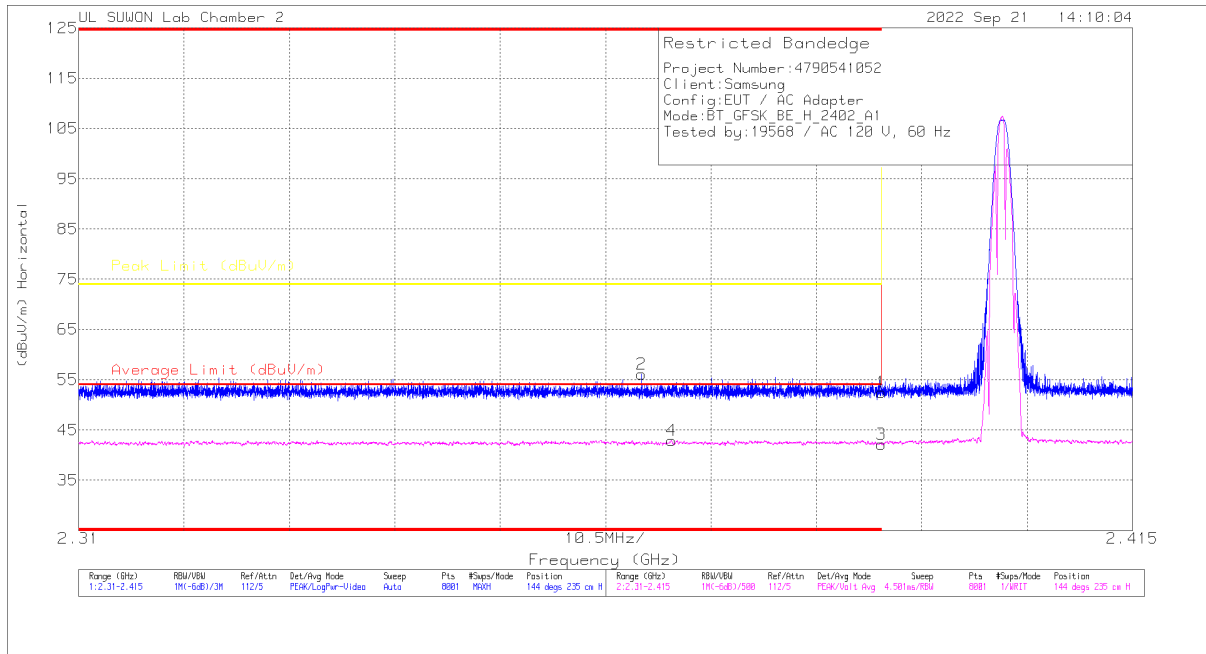
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.97492       | 36.35                | PKFH | 34            | -27         | 43.35                      | -                  | -           | 74                  | -30.65      | 0              | 100         | H        |
| * 4.97466       | 34.52                | PKFH | 34            | -27         | 41.52                      | -                  | -           | 74                  | -32.48      | 0              | 100         | V        |
| * 7.45          | 33.62                | PKFH | 35.7          | -23.8       | 45.52                      | -                  | -           | 74                  | -28.48      | 0              | 100         | H        |
| * 7.42453       | 33.99                | PKFH | 35.7          | -23.6       | 46.09                      | -                  | -           | 74                  | -27.91      | 0              | 100         | V        |
| 9.90172         | 30.81                | PKFH | 37.3          | -21.2       | 46.91                      | -                  | -           | 74                  | -27.09      | 0              | 100         | H        |
| 9.90109         | 31.41                | PKFH | 37.3          | -21.2       | 47.51                      | -                  | -           | 74                  | -26.49      | 0              | 100         | V        |

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

**- ANT2**  
**BANDEDGE (0 CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

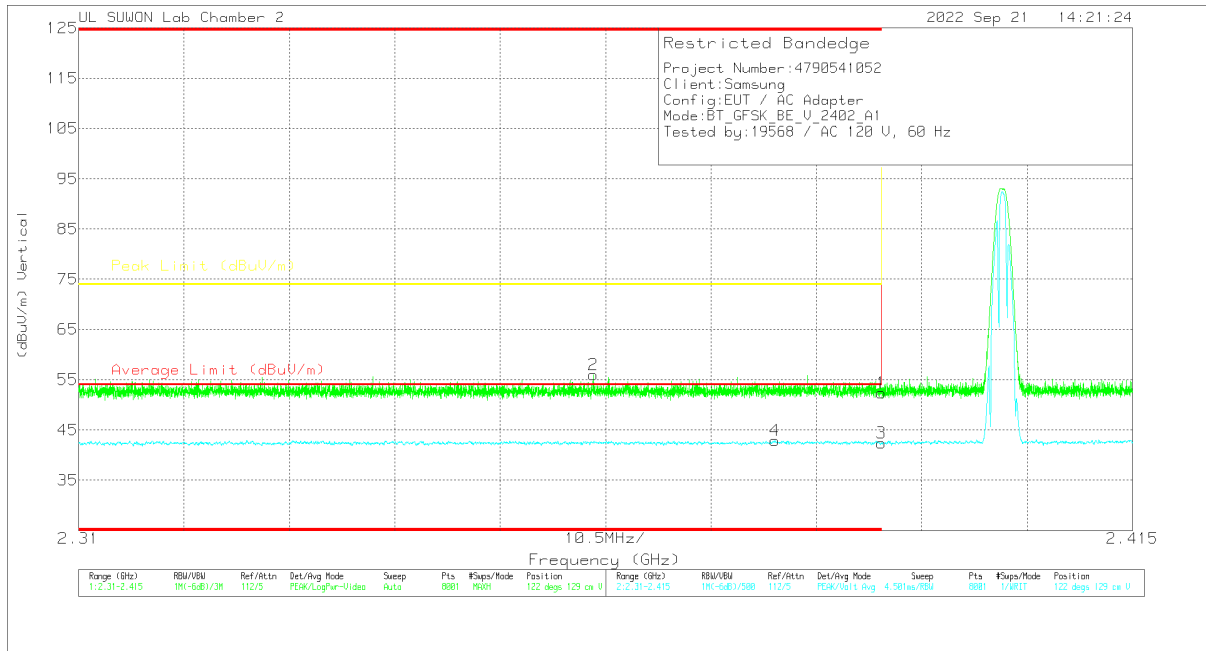
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 40.53                | Pk   | 31.7          | -19.7        | 52.53                      | -                      | -           | 74                  | -21.47         | 144            | 235         | H        |
| 2      | * 2.36611       | 43.99                | Pk   | 31.7          | -19.6        | 56.09                      | -                      | -           | 74                  | -17.91         | 144            | 235         | H        |
| 3      | * 2.39          | 30.14                | VA1T | 31.7          | -19.7        | 42.14                      | 54                     | -11.86      | -                   | -              | 144            | 235         | H        |
| 4      | * 2.36905       | 30.84                | VA1T | 31.7          | -19.6        | 42.94                      | 54                     | -11.06      | -                   | -              | 144            | 235         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 40.39                | Pk   | 31.7          | -19.7        | 52.39                      | -                      | -           | 74                  | -21.61         | 122            | 129         | V        |
| 2      | * 2.36125       | 43.91                | Pk   | 31.6          | -19.5        | 56.01                      | -                      | -           | 74                  | -17.99         | 122            | 129         | V        |
| 3      | * 2.39          | 30.43                | VA1T | 31.7          | -19.7        | 42.43                      | 54                     | -11.57      | -                   | -              | 122            | 129         | V        |
| 4      | * 2.37937       | 30.76                | VA1T | 31.7          | -19.6        | 42.86                      | 54                     | -11.14      | -                   | -              | 122            | 129         | V        |

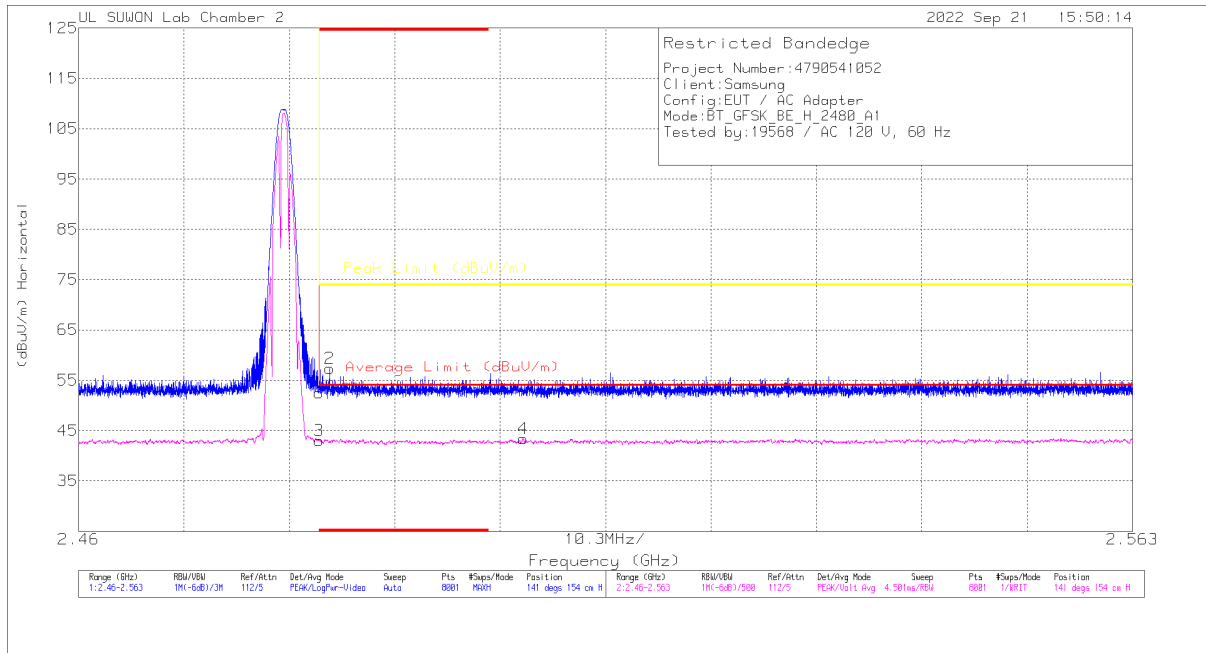
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## BANDEDGE (78 CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

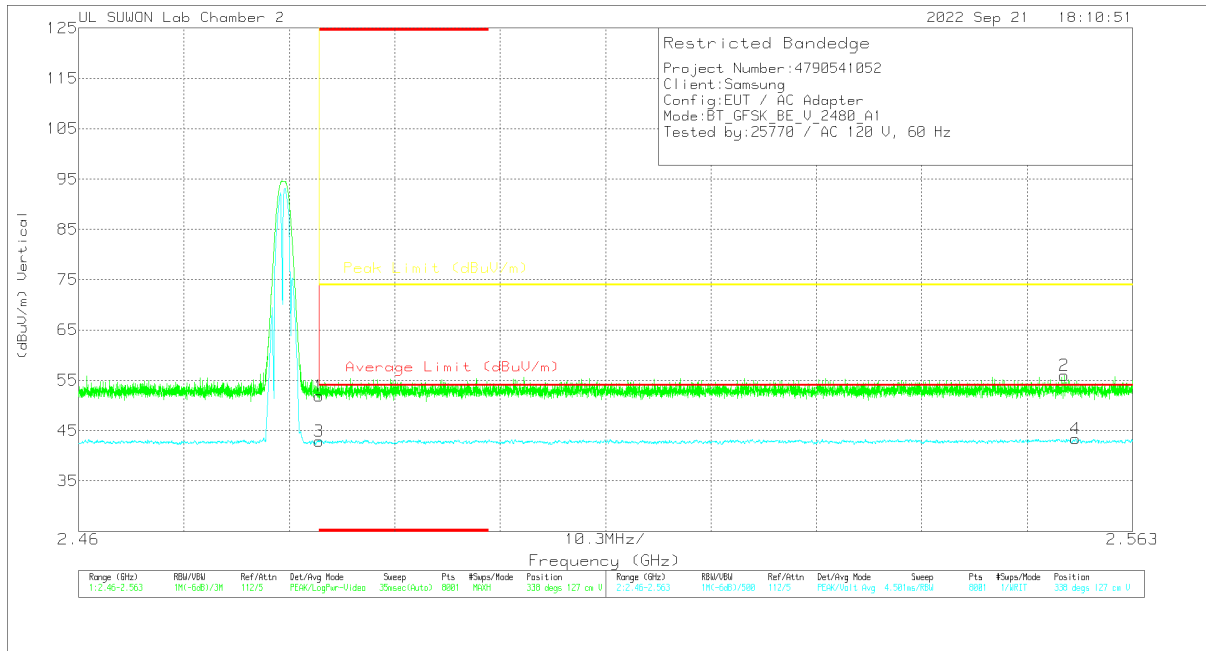
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.16                | Pk   | 31.9          | -19.6        | 52.46                      | -                      | -           | 74                  | -21.54         | 141            | 154         | H        |
| 2      | * 2.48455       | 45.01                | Pk   | 31.9          | -19.6        | 57.31                      | -                      | -           | 74                  | -16.69         | 141            | 154         | H        |
| 3      | * 2.48351       | 30.77                | VA1T | 31.9          | -19.6        | 43.07                      | 54                     | -10.93      | -                   | -              | 141            | 154         | H        |
| 4      | 2.50343         | 31.04                | VA1T | 31.9          | -19.5        | 43.44                      | 54                     | -10.56      | -                   | -              | 141            | 154         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 39.54                | PK   | 31.9          | -19.6        | 51.84                      | -                      | -           | 74                  | -22.16         | 338            | 127         | V        |
| 2      | 2.55631         | 43.31                | PK   | 32            | -19.3        | 56.01                      | -                      | -           | 74                  | -17.99         | 338            | 127         | V        |
| 3      | * 2.48351       | 30.63                | VA1T | 31.9          | -19.6        | 42.93                      | 54                     | -11.07      | -                   | -              | 338            | 127         | V        |
| 4      | 2.55743         | 30.8                 | VA1T | 32            | -19.4        | 43.4                       | 54                     | -10.6       | -                   | -              | 338            | 127         | V        |

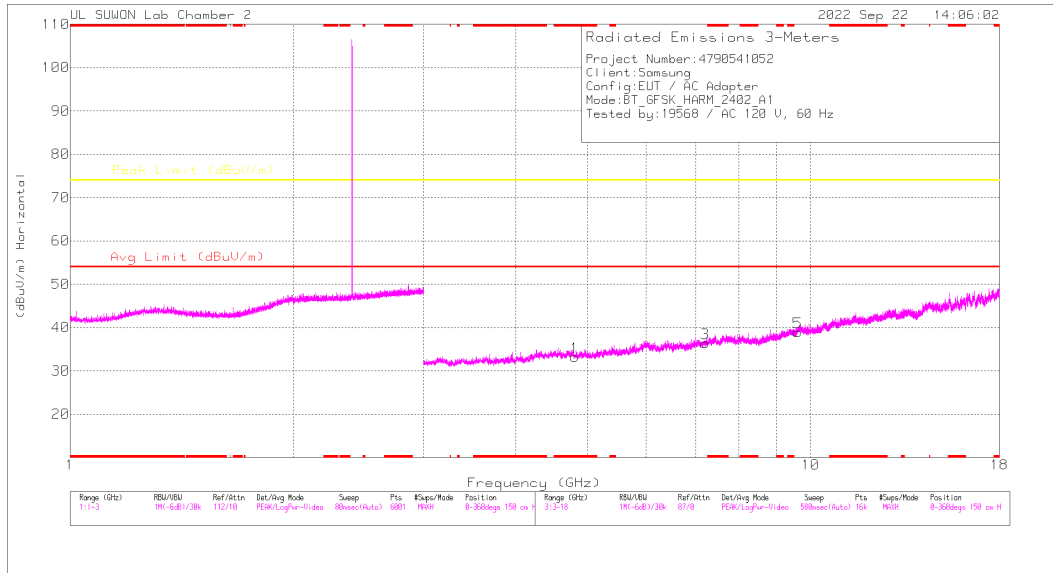
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

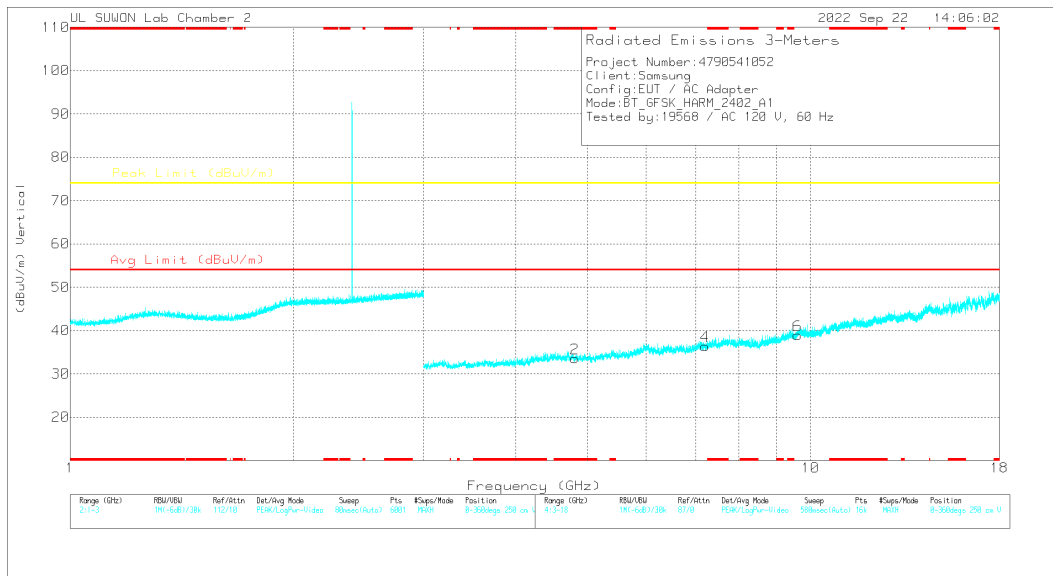
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

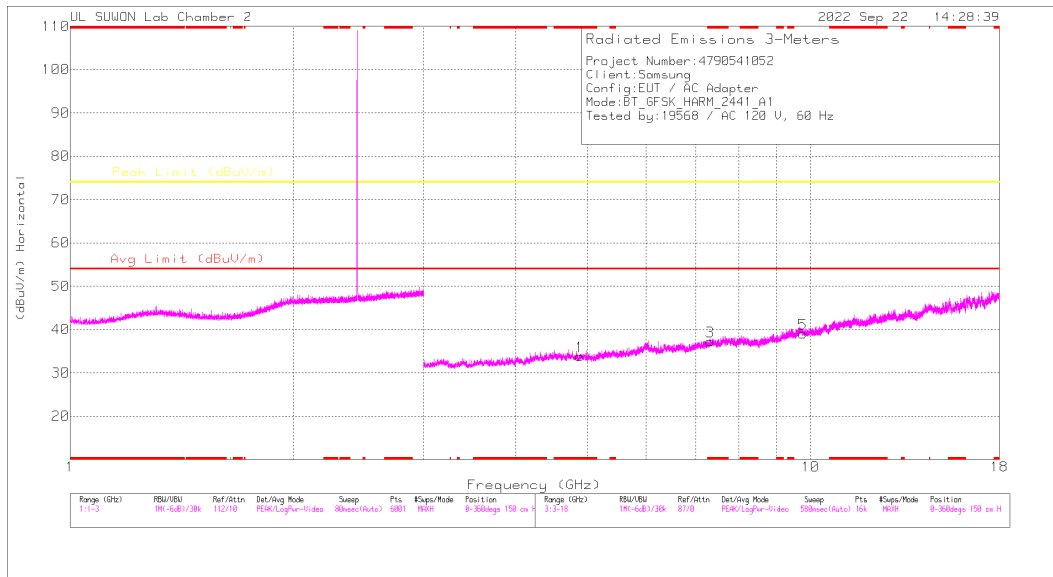
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.81314       | 36.05                | PKFH | 34            | -27.7       | 42.35                      | -                  | -           | 74                  | -31.65      | 0              | 100         | H        |
| * 4.82681       | 35.28                | PKFH | 34            | -27.8       | 41.48                      | -                  | -           | 74                  | -32.52      | 0              | 100         | V        |
| 7.22344         | 33.74                | PKFH | 35.7          | -25.2       | 44.24                      | -                  | -           | 74                  | -29.76      | 0              | 100         | H        |
| 7.19621         | 33.75                | PKFH | 35.6          | -25         | 44.35                      | -                  | -           | 74                  | -29.65      | 0              | 100         | V        |
| 9.5945          | 31.57                | PKFH | 36.9          | -21.4       | 47.07                      | -                  | -           | 74                  | -26.93      | 0              | 100         | H        |
| 9.5851          | 31.91                | PKFH | 36.9          | -21.5       | 47.31                      | -                  | -           | 74                  | -26.69      | 0              | 100         | V        |

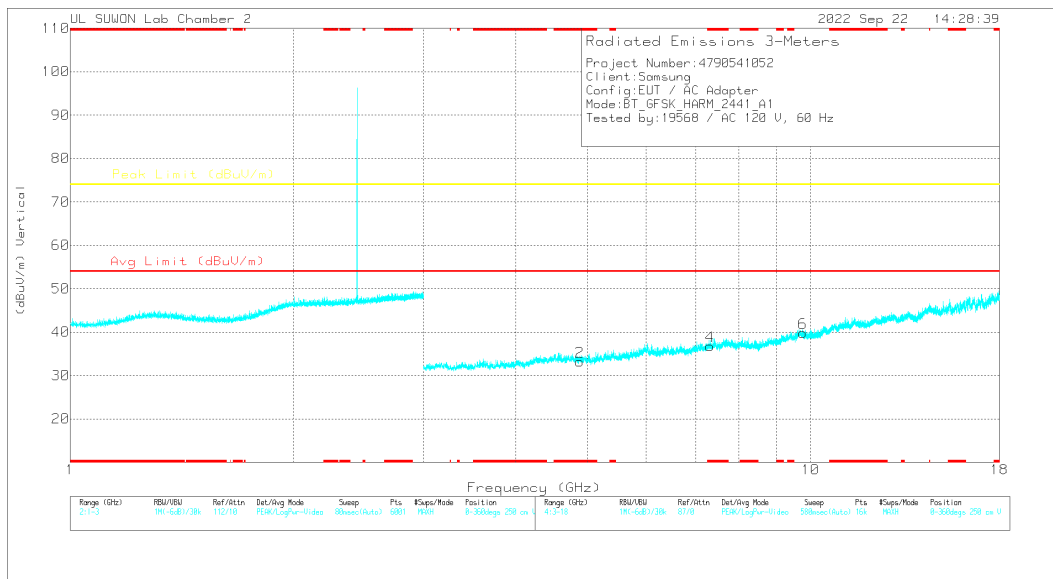
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak



### 39 CHANNEL RESULTS



### HORIZONTAL



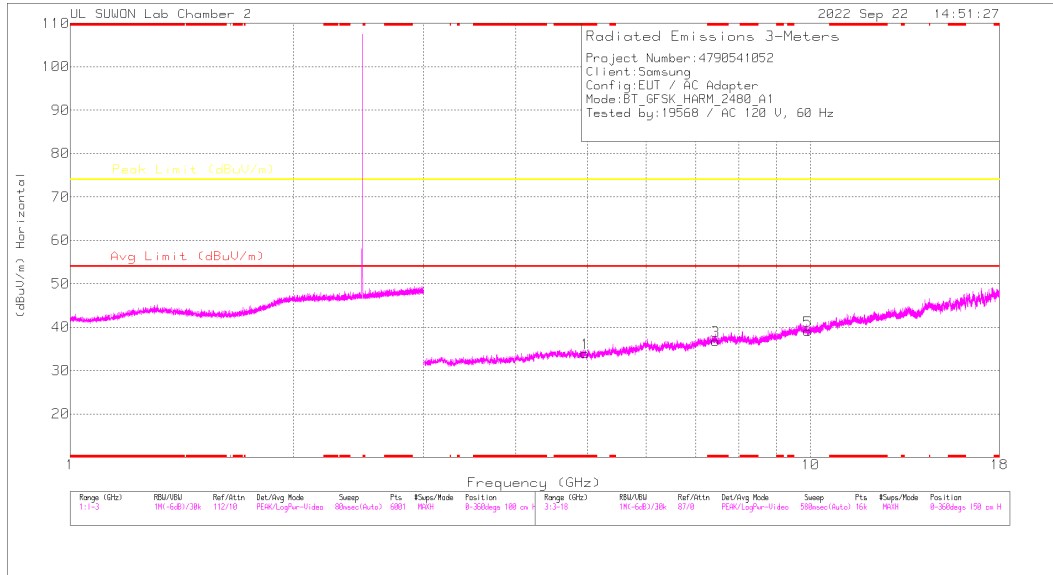
### VERTICAL

### RADIATED EMISSIONS

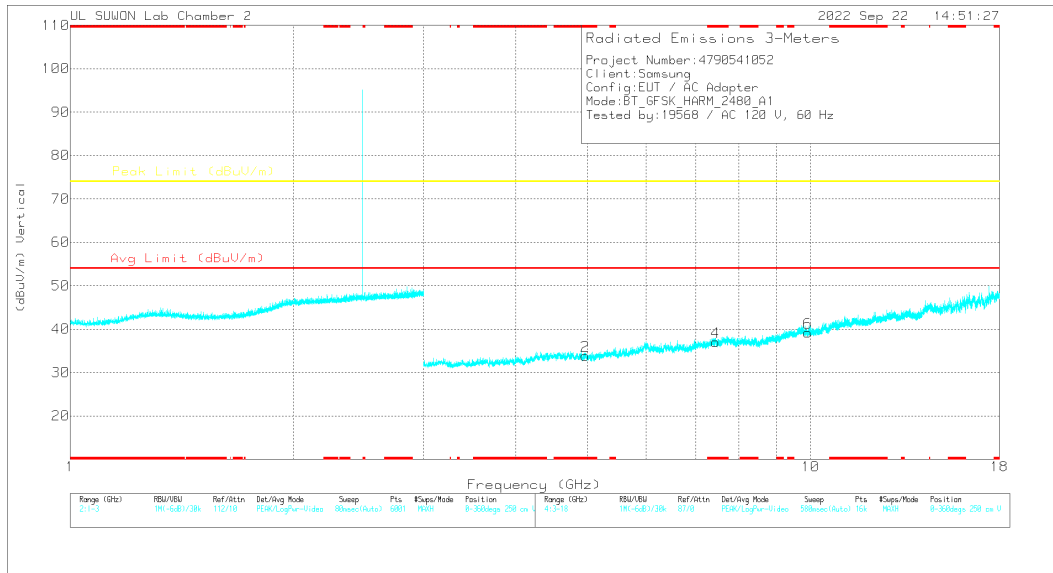
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.87803       | 36.56                | PKFH | 34            | -27.7       | 42.86                      | -                  | -           | 74                  | -31.14      | 0              | 100         | H        |
| * 4.88557       | 36.14                | PKFH | 34            | -27.6       | 42.54                      | -                  | -           | 74                  | -31.46      | 0              | 100         | V        |
| * 7.31327       | 34.66                | PKFH | 35.7          | -24.6       | 45.76                      | -                  | -           | 74                  | -28.24      | 0              | 100         | H        |
| * 7.30965       | 34.44                | PKFH | 35.7          | -24.6       | 45.54                      | -                  | -           | 74                  | -28.46      | 0              | 100         | V        |
| 9.74095         | 32.18                | PKFH | 37.1          | -20.8       | 48.48                      | -                  | -           | 74                  | -25.52      | 0              | 100         | H        |
| 9.75852         | 30.82                | PKFH | 37.1          | -20.9       | 47.02                      | -                  | -           | 74                  | -26.98      | 0              | 100         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

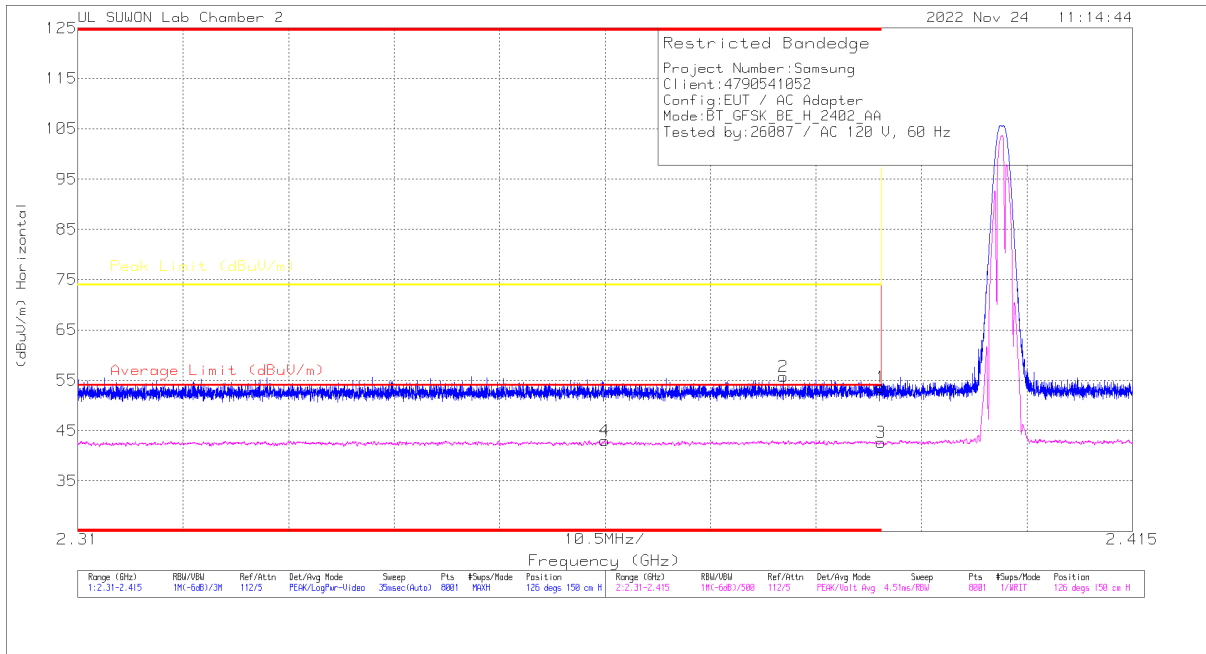
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.94478       | 34.76                | PKFH | 34            | -27.1       | 41.66                      | -                  | -           | 74                  | -32.34      | 0              | 100         | H        |
| * 4.95013       | 34.97                | PKFH | 34            | -27.1       | 41.87                      | -                  | -           | 74                  | -32.13      | 0              | 100         | V        |
| * 7.44142       | 32.97                | PKFH | 35.7          | -23.7       | 44.97                      | -                  | -           | 74                  | -29.03      | 0              | 100         | H        |
| * 7.43971       | 33.26                | PKFH | 35.7          | -23.7       | 45.26                      | -                  | -           | 74                  | -28.74      | 0              | 100         | V        |
| 9.94383         | 30.77                | PKFH | 37.3          | -20.9       | 47.17                      | -                  | -           | 74                  | -26.83      | 0              | 100         | H        |
| 9.91829         | 31.01                | PKFH | 37.3          | -21.1       | 47.21                      | -                  | -           | 74                  | -26.79      | 0              | 100         | V        |

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

- BT-DUAL(MIMO)  
BANDEDGE (0 CHANNEL)

HORIZONTAL RESULT



Trace Markers

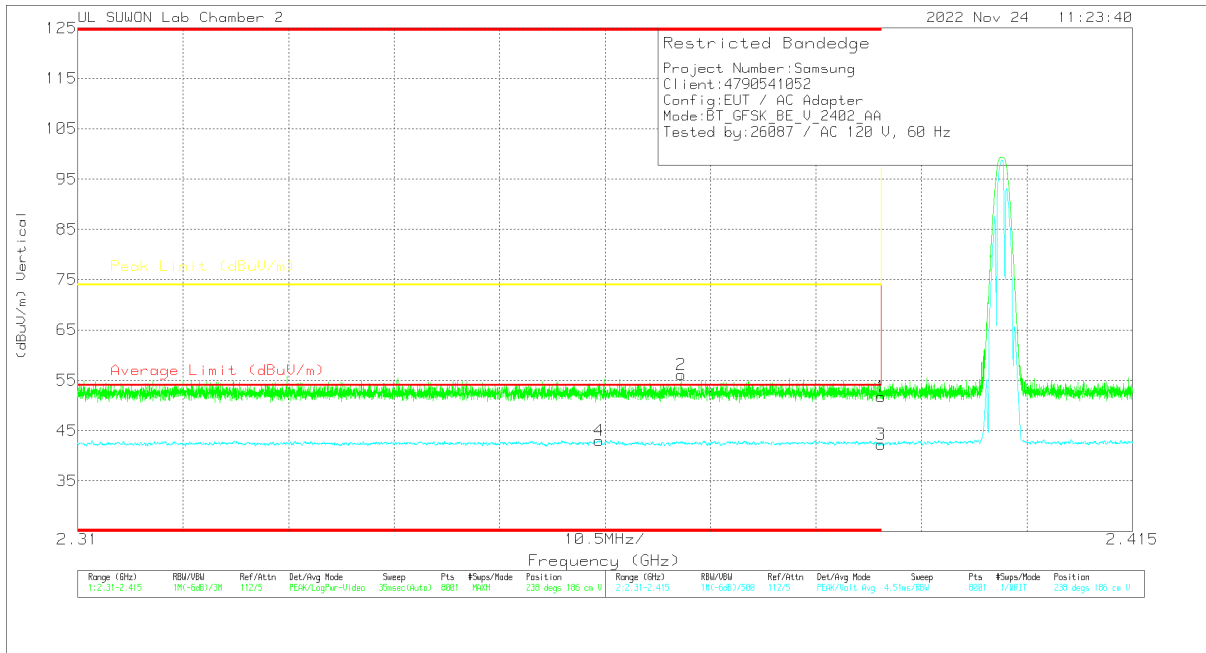
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 41.64                | PK   | 31.7          | -19.7        | 53.64                      | -                      | -           | 74                  | -20.36         | 126            | 150         | H        |
| 2      | * 2.38023       | 43.62                | PK   | 31.7          | -19.6        | 55.72                      | -                      | -           | 74                  | -18.28         | 126            | 150         | H        |
| 3      | * 2.39          | 30.65                | VA1T | 31.7          | -19.7        | 42.65                      | 54                     | -11.35      | -                   | -              | 126            | 150         | H        |
| 4      | * 2.36245       | 30.9                 | VA1T | 31.6          | -19.5        | 43                         | 54                     | -11         | -                   | -              | 126            | 150         | H        |

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

PK - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 39.74                | Pk   | 31.7          | -19.7        | 51.74                      | -                      | -           | 74                  | -22.26         | 238            | 186         | V        |
| 2      | * 2.37005       | 44.05                | Pk   | 31.7          | -19.6        | 56.15                      | -                      | -           | 74                  | -17.85         | 238            | 186         | V        |
| 3      | * 2.39          | 30.3                 | VA1T | 31.7          | -19.7        | 42.3                       | 54                     | -11.7       | -                   | -              | 238            | 186         | V        |
| 4      | * 2.36191       | 30.97                | VA1T | 31.6          | -19.5        | 43.07                      | 54                     | -10.93      | -                   | -              | 238            | 186         | V        |

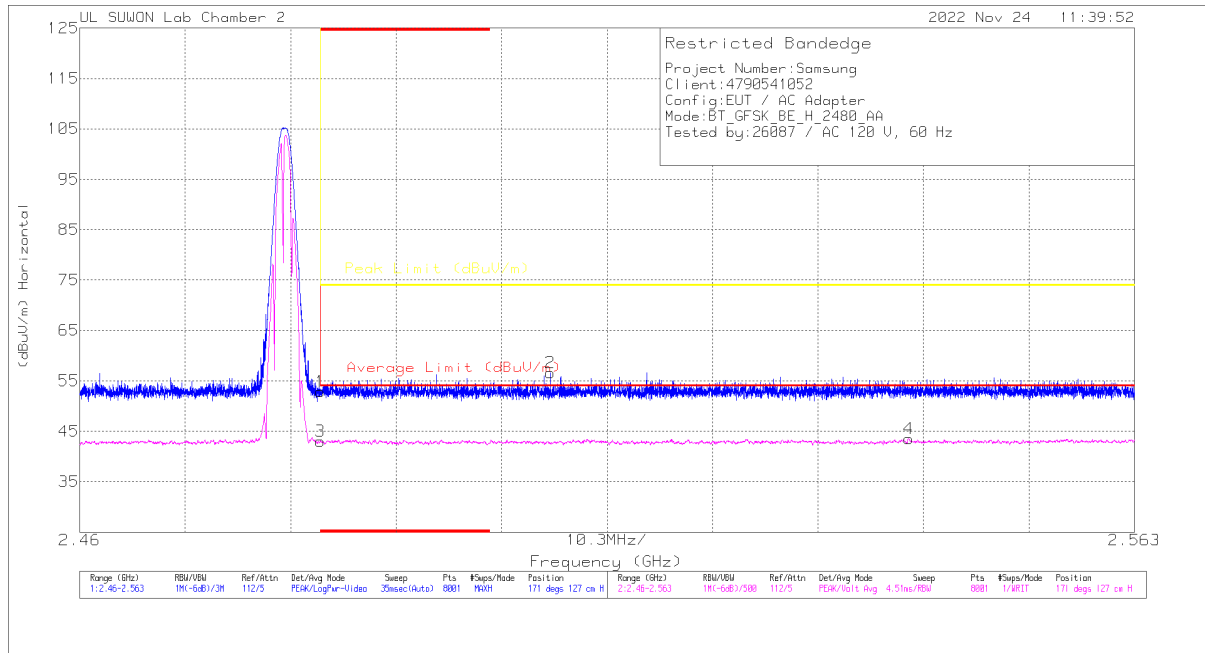
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## BANDEDGE (78 CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

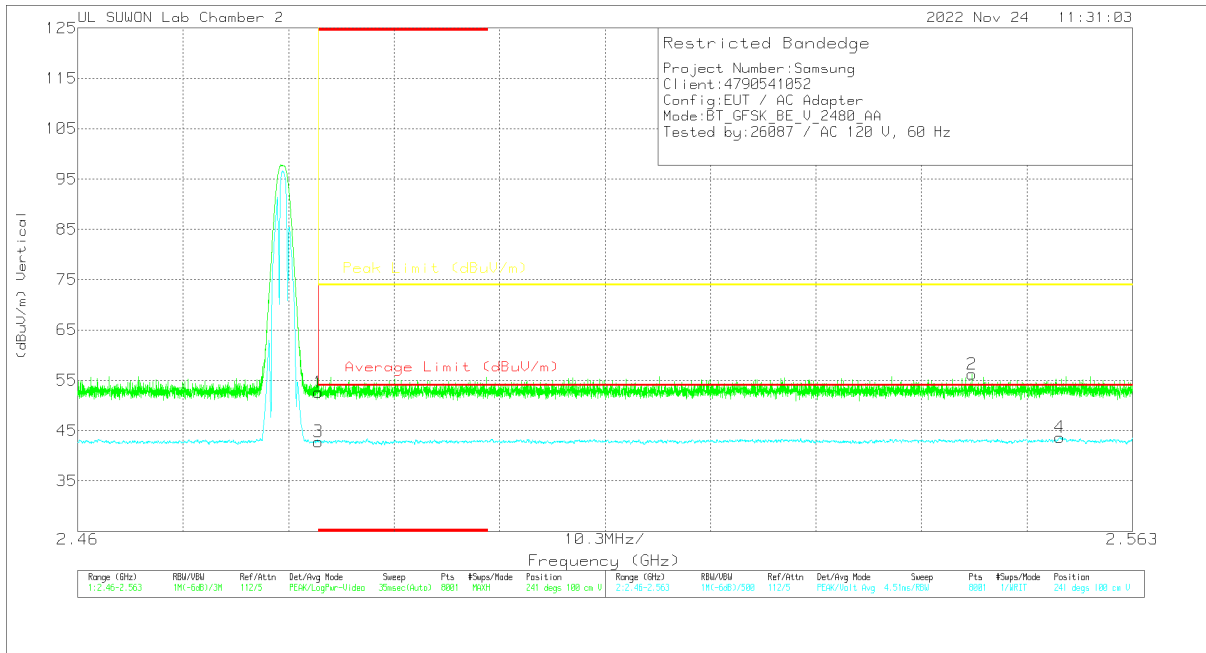
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.62                | Pk   | 31.9          | -19.6        | 52.92                      | -                      | -           | 74                  | -21.08         | 171            | 127         | H        |
| 2      | 2.50595         | 44.39                | Pk   | 31.9          | -19.7        | 56.59                      | -                      | -           | 74                  | -17.41         | 171            | 127         | H        |
| 3      | * 2.48351       | 30.68                | VA1T | 31.9          | -19.6        | 42.98                      | 54                     | -11.02      | -                   | -              | 171            | 127         | H        |
| 4      | 2.54095         | 30.92                | VA1T | 32            | -19.4        | 43.52                      | 54                     | -10.48      | -                   | -              | 171            | 127         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



### Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.35                | Pk   | 31.9          | -19.6        | 52.65                      | -                      | -           | 74                  | -21.35         | 241            | 100         | V        |
| 2      | 2.54734         | 43.76                | Pk   | 32            | -19.5        | 56.26                      | -                      | -           | 74                  | -17.74         | 241            | 100         | V        |
| 3      | * 2.48351       | 30.54                | VA1T | 31.9          | -19.6        | 42.84                      | 54                     | -11.16      | -                   | -              | 241            | 100         | V        |
| 4      | 2.55591         | 31.01                | VA1T | 32            | -19.3        | 43.71                      | 54                     | -10.29      | -                   | -              | 241            | 100         | V        |

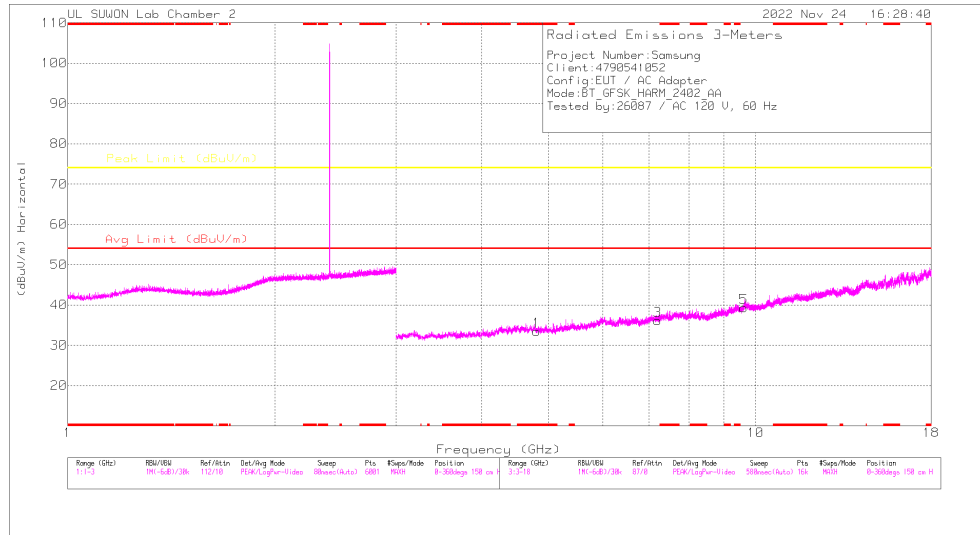
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

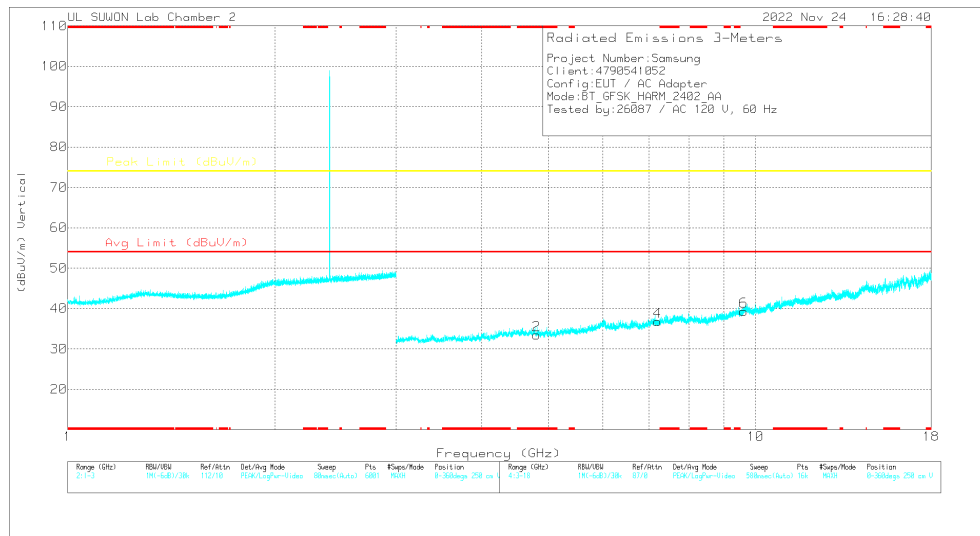
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

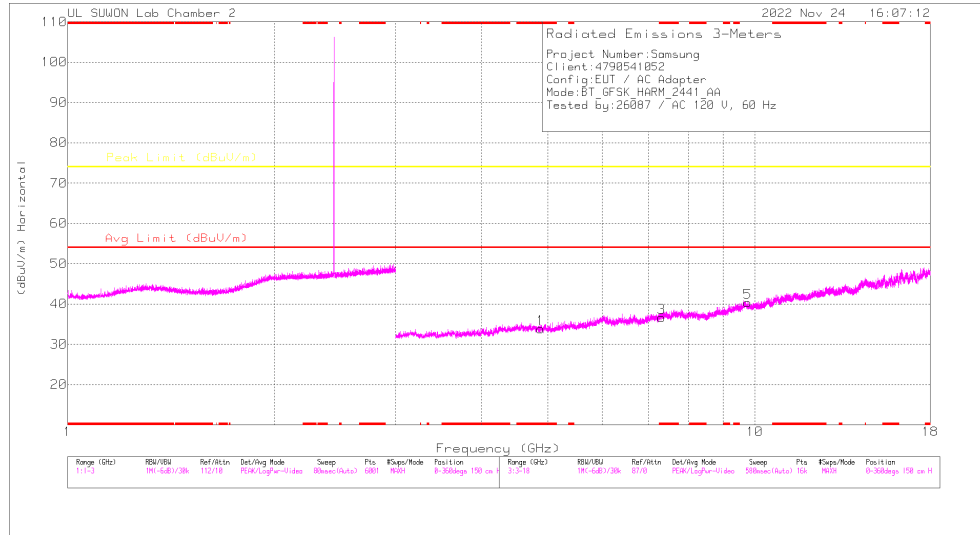
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.80458       | 35.14                | PKFH | 34            | -27.7       | 41.44                      | -                  | -           | 74                  | -32.56      | 0              | 100         | H        |
| * 4.8046        | 35.14                | PKFH | 34            | -27.7       | 41.44                      | -                  | -           | 74                  | -32.56      | 0              | 100         | V        |
| 7.20793         | 33.19                | PKFH | 35.7          | -25.1       | 43.79                      | -                  | -           | 74                  | -30.21      | 0              | 100         | H        |
| 7.20548         | 33.76                | PKFH | 35.7          | -25         | 44.46                      | -                  | -           | 74                  | -29.54      | 0              | 100         | V        |
| 9.60719         | 30.86                | PKFH | 36.9          | -21.3       | 46.46                      | -                  | -           | 74                  | -27.54      | 0              | 100         | H        |
| 9.60788         | 32.03                | PKFH | 36.9          | -21.3       | 47.63                      | -                  | -           | 74                  | -26.37      | 0              | 100         | V        |

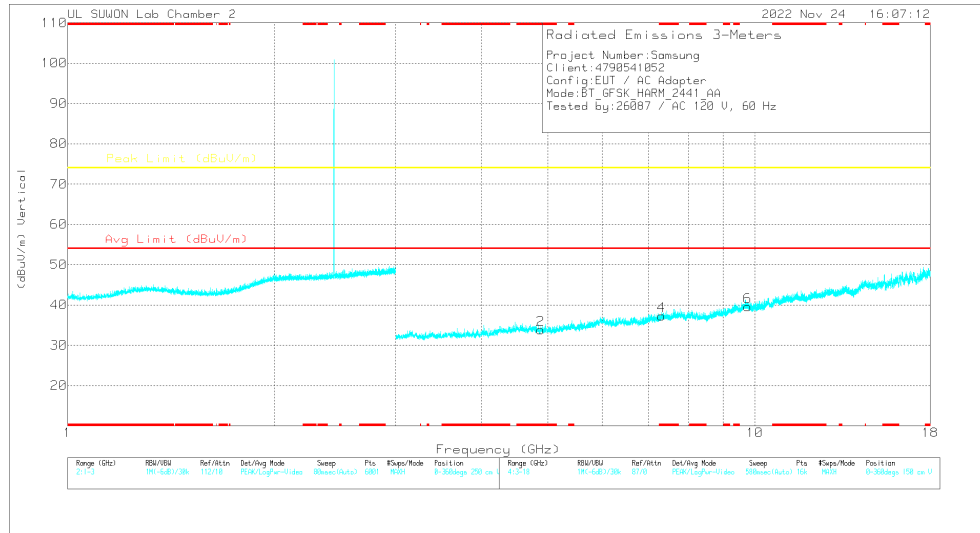
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

### 39 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

### RADIATED EMISSIONS

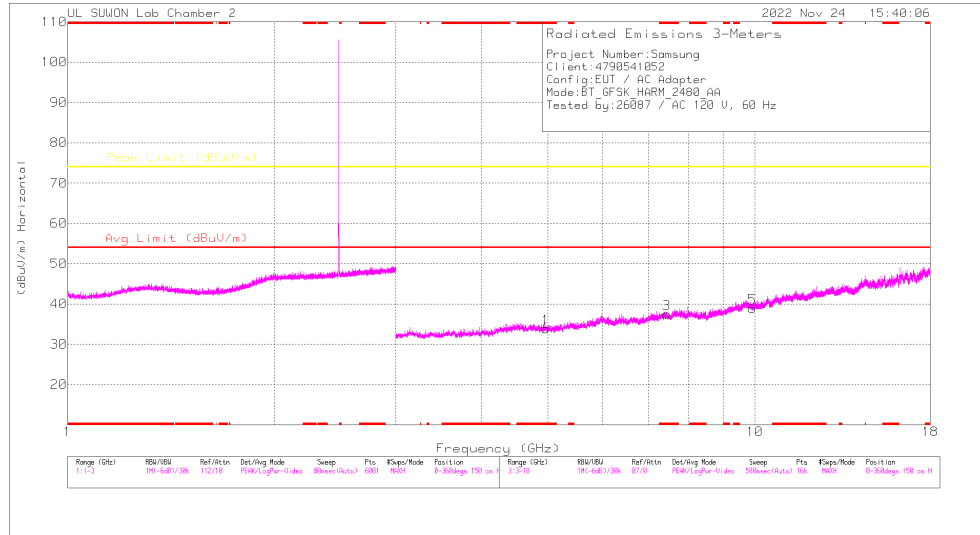
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.88166       | 35.1                 | PKFH | 34            | -27.6       | 41.5                       | -                  | -           | 74                  | -32.5       | 0              | 100         | H        |
| * 4.88244       | 35.42                | PKFH | 34            | -27.6       | 41.82                      | -                  | -           | 74                  | -32.18      | 0              | 100         | V        |
| * 7.32322       | 33.35                | PKFH | 35.7          | -24.4       | 44.65                      | -                  | -           | 74                  | -29.35      | 0              | 100         | H        |
| * 7.32168       | 33.67                | PKFH | 35.7          | -24.5       | 44.87                      | -                  | -           | 74                  | -29.13      | 0              | 100         | V        |
| 9.76307         | 30.76                | PKFH | 37.1          | -21         | 46.86                      | -                  | -           | 74                  | -27.14      | 0              | 100         | H        |
| 9.76519         | 30.9                 | PKFH | 37.1          | -21         | 47                         | -                  | -           | 74                  | -27         | 0              | 100         | V        |

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

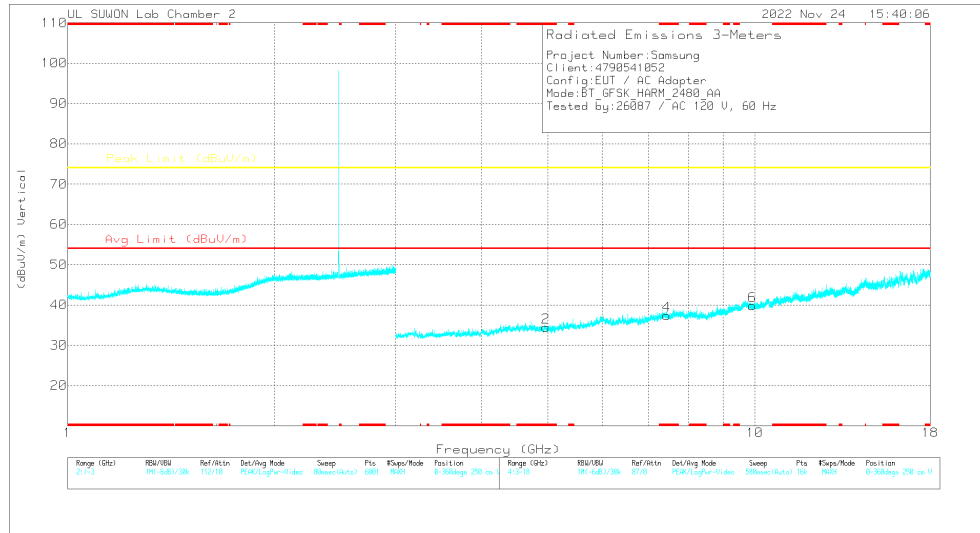
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak



## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95998       | 34.4                 | PKFH | 34            | -27         | 41.4                       | -                  | -           | 74                  | -32.6       | 0              | 100         | H        |
| * 4.95854       | 34.22                | PKFH | 34            | -27         | 41.22                      | -                  | -           | 74                  | -32.78      | 0              | 100         | V        |
| * 7.4401        | 33.77                | PKFH | 35.7          | -23.7       | 45.77                      | -                  | -           | 74                  | -28.23      | 0              | 100         | H        |
| * 7.44141       | 32.43                | PKFH | 35.7          | -23.7       | 44.43                      | -                  | -           | 74                  | -29.57      | 0              | 100         | V        |
| 9.92046         | 31.33                | PKFH | 37.3          | -21.1       | 47.53                      | -                  | -           | 74                  | -26.47      | 0              | 100         | H        |
| 9.92163         | 30.23                | PKFH | 37.3          | -21.1       | 46.43                      | -                  | -           | 74                  | -27.57      | 0              | 100         | V        |

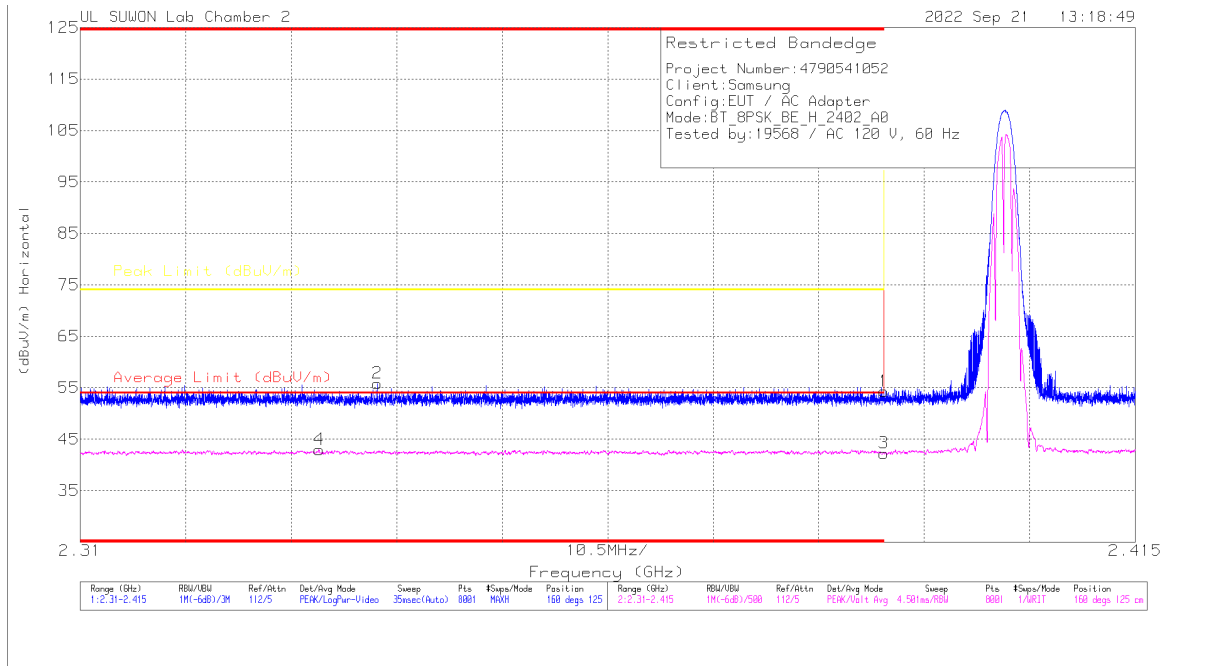
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 10.1.2. BLUETOOTH ENHANCED DATA RATE 8PSK MODULATION

### - ANT1 BANDEDGE (0 CHANNEL)

#### HORIZONTAL RESULT



#### Trace Markers

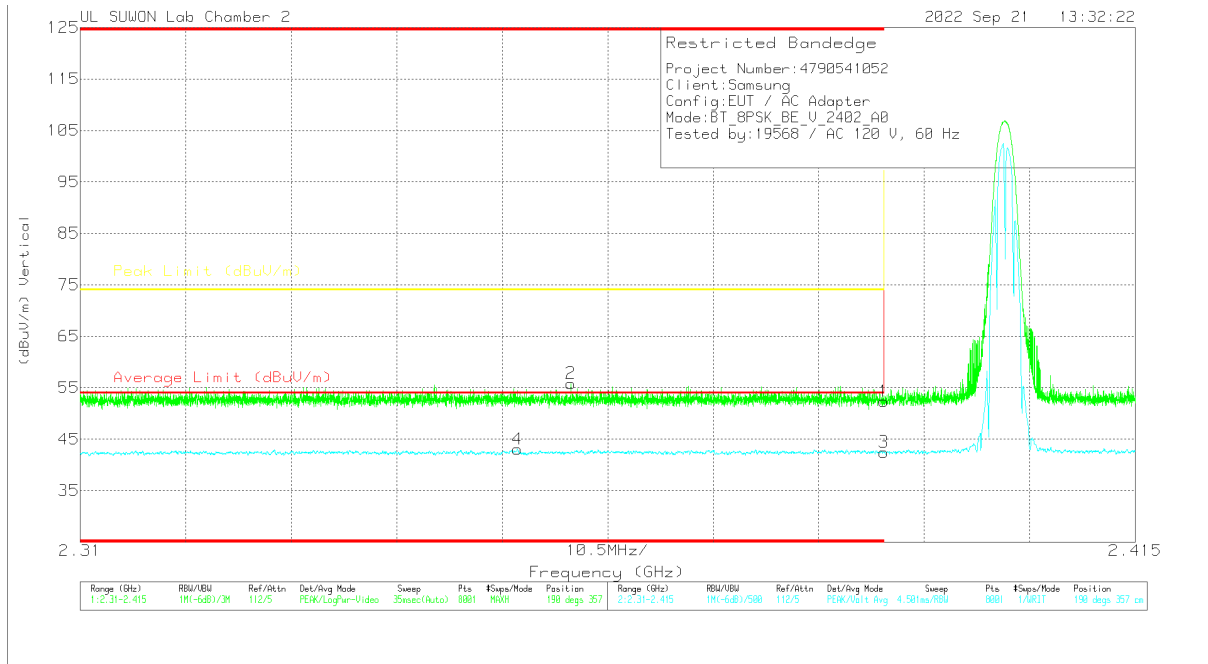
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 42.32                | Pk   | 31.7          | -19.7        | 54.32                      | -                      | -           | 74                  | -19.68         | 160            | 125         | H        |
| 2      | * 2.33956       | 43.85                | Pk   | 31.6          | -19.6        | 55.85                      | -                      | -           | 74                  | -18.15         | 160            | 125         | H        |
| 3      | * 2.39          | 30.27                | VA1T | 31.7          | -19.7        | 42.27                      | 54                     | -11.73      | -                   | -              | 160            | 125         | H        |
| 4      | * 2.33378       | 30.99                | VA1T | 31.6          | -19.6        | 42.99                      | 54                     | -11.01      | -                   | -              | 160            | 125         | H        |

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

PK - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 40.36                | PK   | 31.7          | -19.7        | 52.36                      | -                      | -           | 74                  | -21.64         | 190            | 357         | V        |
| 2      | * 2.35883       | 43.83                | PK   | 31.6          | -19.6        | 55.83                      | -                      | -           | 74                  | -18.17         | 190            | 357         | V        |
| 3      | * 2.39          | 30.47                | VA1T | 31.7          | -19.7        | 42.47                      | 54                     | -11.53      | -                   | -              | 190            | 357         | V        |
| 4      | * 2.35352       | 31.05                | VA1T | 31.6          | -19.6        | 43.05                      | 54                     | -10.95      | -                   | -              | 190            | 357         | V        |

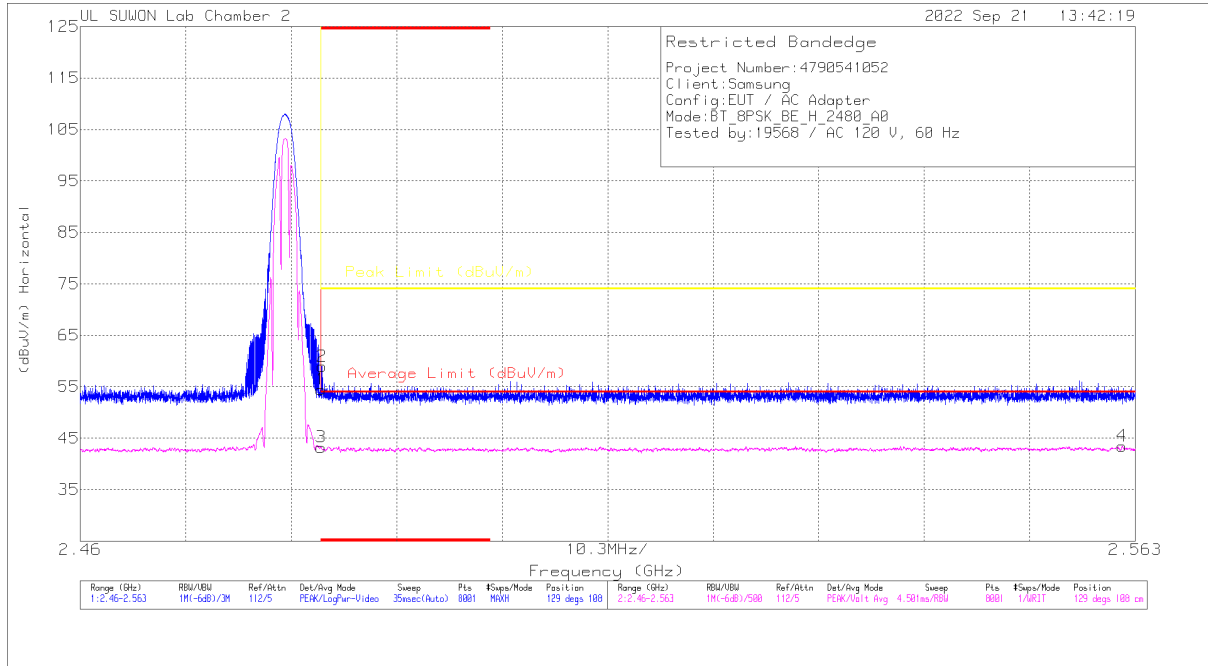
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

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

## BANDEDGE (78 CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

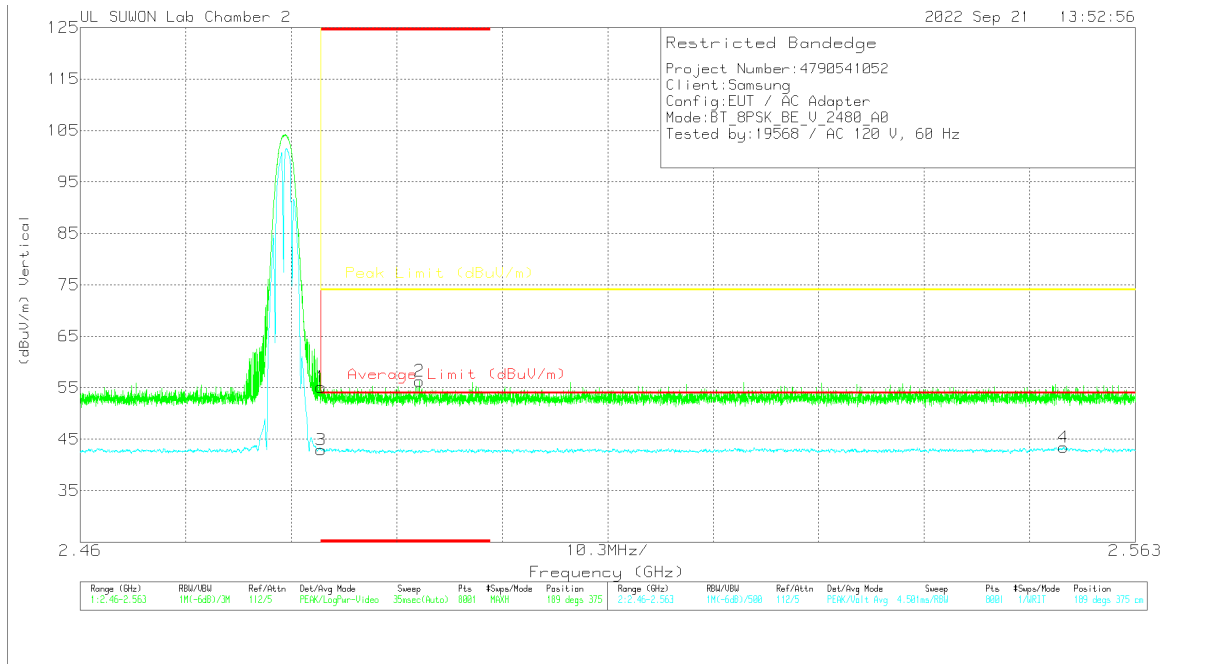
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 42.2                 | Pk   | 31.9          | -19.6        | 54.5                       | -                      | -           | 74                  | -19.5          | 129            | 108         | H        |
| 2      | * 2.48359       | 46.66                | Pk   | 31.9          | -19.6        | 58.96                      | -                      | -           | 74                  | -15.04         | 129            | 108         | H        |
| 3      | * 2.48351       | 30.95                | VA1T | 31.9          | -19.6        | 43.25                      | 54                     | -10.75      | -                   | -              | 129            | 108         | H        |
| 4      | 2.56173         | 30.98                | VA1T | 32            | -19.5        | 43.48                      | 54                     | -10.52      | -                   | -              | 129            | 108         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 42.83                | PK   | 31.9          | -19.6        | 55.13                      | -                      | -           | 74                  | -18.87         | 189            | 375         | V        |
| 2      | * 2.4931        | 43.88                | PK   | 31.9          | -19.5        | 56.28                      | -                      | -           | 74                  | -17.72         | 189            | 375         | V        |
| 3      | * 2.48351       | 30.65                | VA1T | 31.9          | -19.6        | 42.95                      | 54                     | -11.05      | -                   | -              | 189            | 375         | V        |
| 4      | 2.55602         | 30.73                | VA1T | 32            | -19.3        | 43.43                      | 54                     | -10.57      | -                   | -              | 189            | 375         | V        |

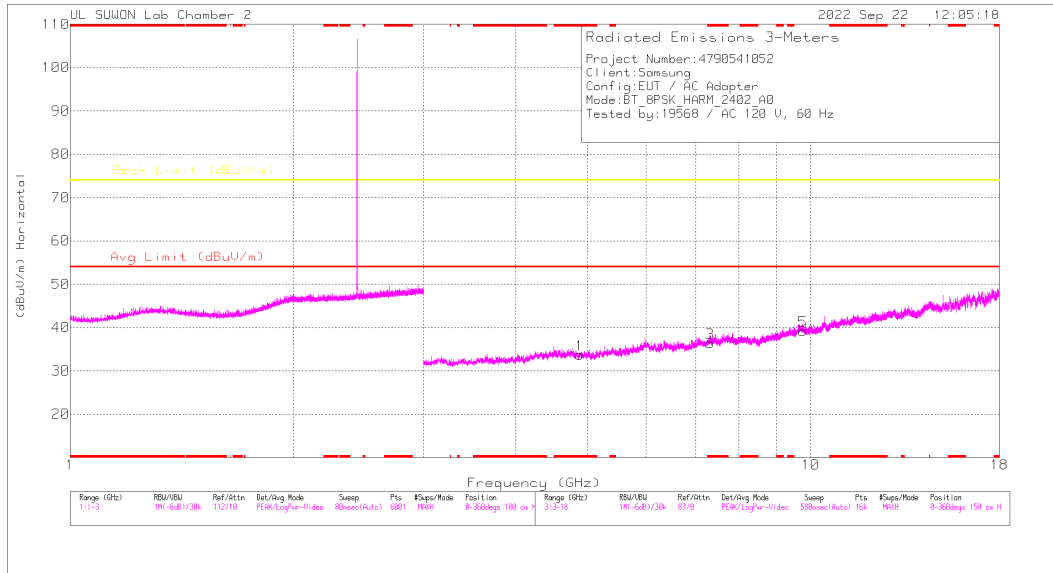
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

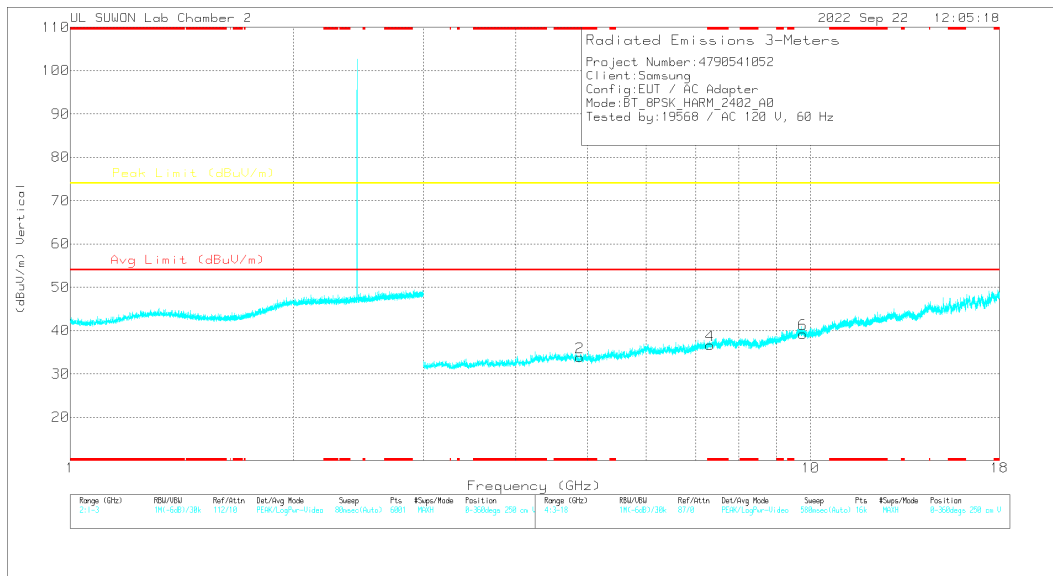
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



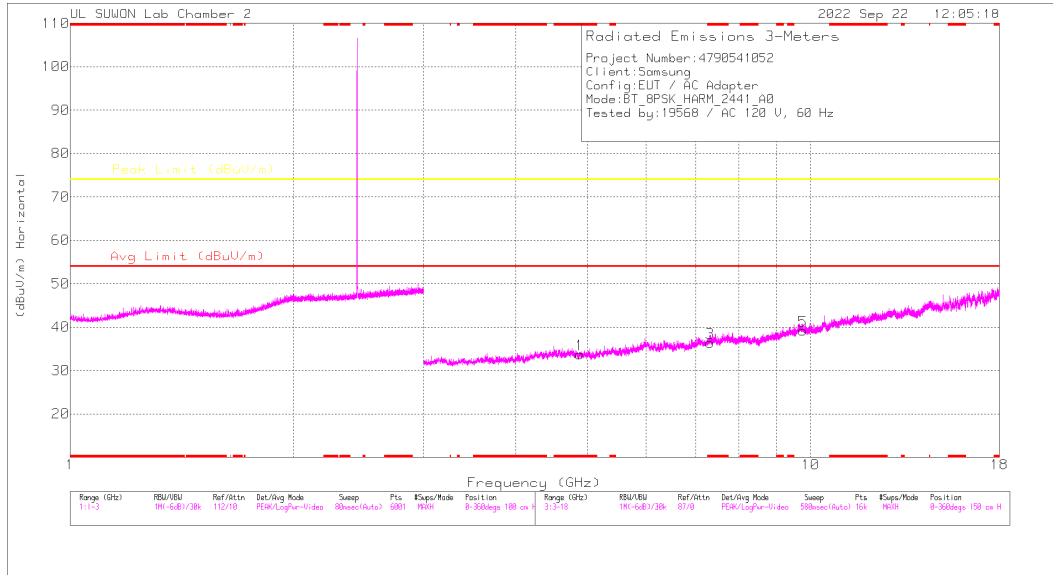
### VERTICAL

### RADIATED EMISSIONS

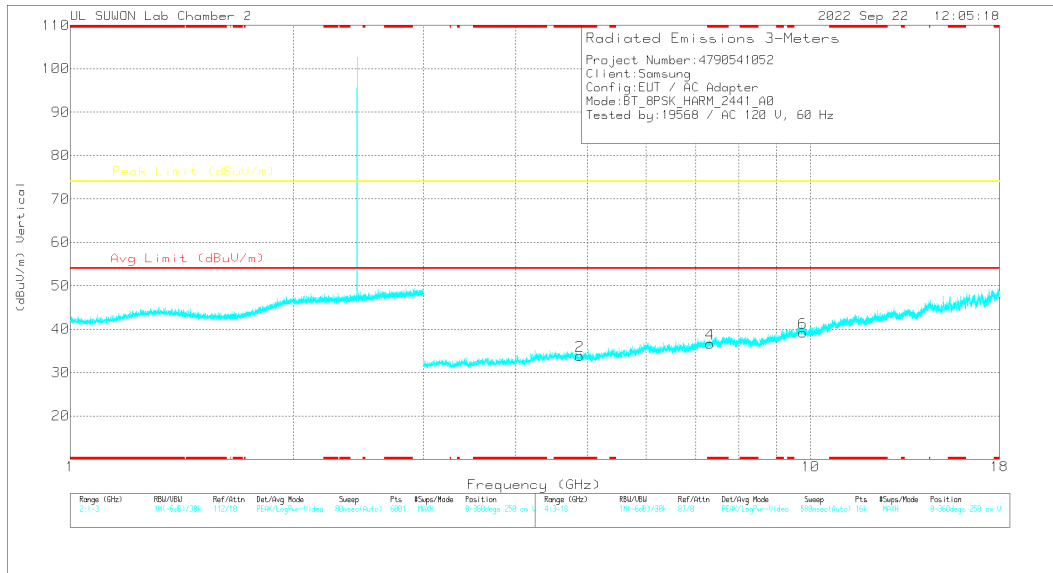
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.86138       | 35.72                | PKFH | 34            | -27.8       | 41.92                      | -                  | -           | 74                  | -32.08      | 0              | 100         | H        |
| * 4.86871       | 35.66                | PKFH | 34            | -27.8       | 41.86                      | -                  | -           | 74                  | -32.14      | 0              | 100         | V        |
| * 7.34747       | 34.42                | PKFH | 35.7          | -24.1       | 46.02                      | -                  | -           | 74                  | -27.98      | 0              | 100         | H        |
| * 7.30501       | 34.86                | PKFH | 35.7          | -24.7       | 45.86                      | -                  | -           | 74                  | -28.14      | 0              | 100         | V        |
| 9.78729         | 31.47                | PKFH | 37.1          | -21.2       | 47.37                      | -                  | -           | 74                  | -26.63      | 0              | 100         | H        |
| 9.78789         | 31.26                | PKFH | 37.1          | -21.2       | 47.16                      | -                  | -           | 74                  | -26.84      | 0              | 100         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

### 39 CHANNEL RESULTS



### HORIZONTAL



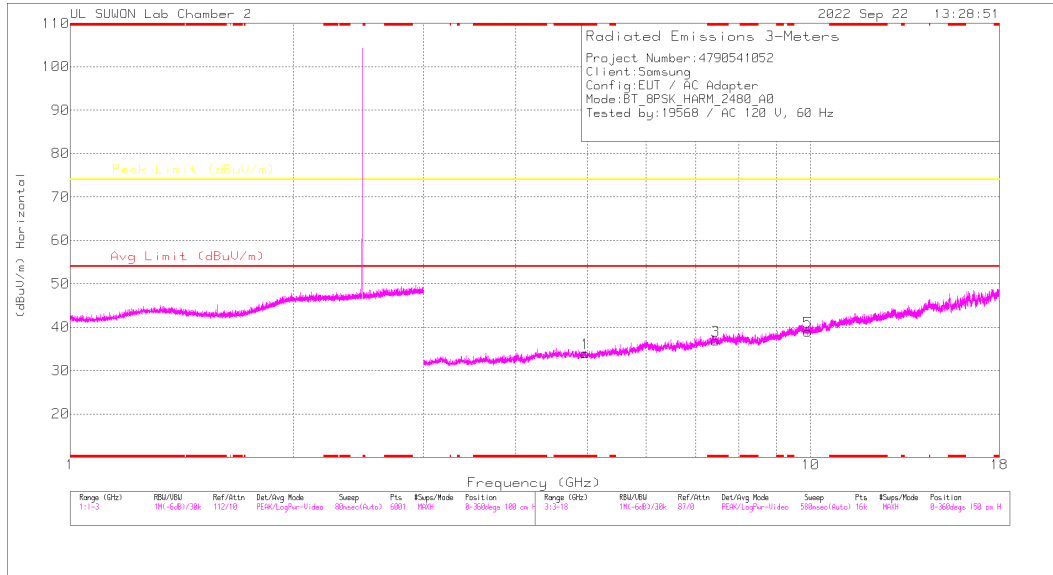
### VERTICAL

### RADIATED EMISSIONS

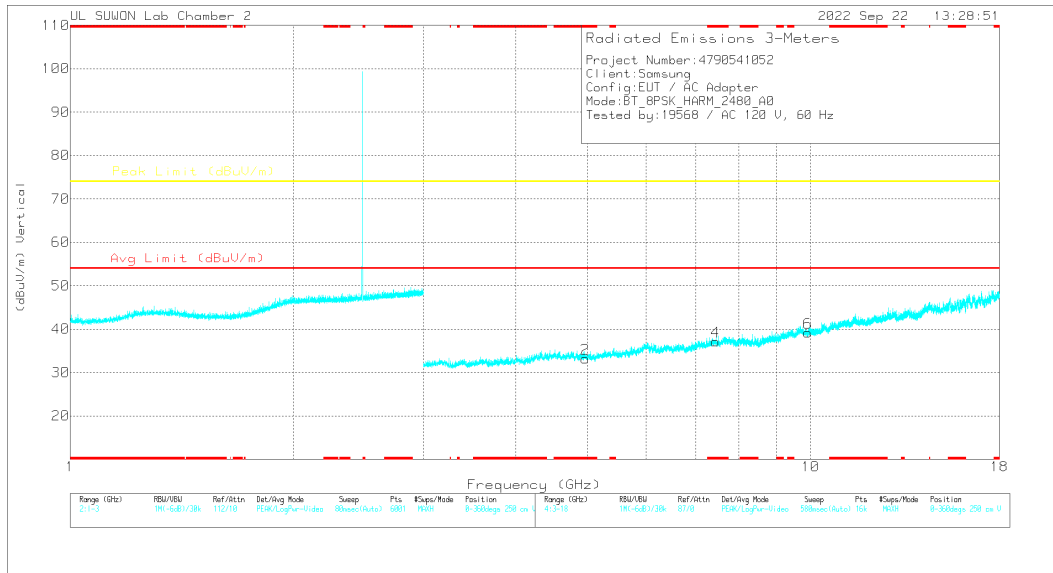
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.86138       | 35.72                | PKFH | 34            | -27.8       | 41.92                      | -                  | -           | 74                  | -32.08      | 0              | 100         | H        |
| * 4.86871       | 35.66                | PKFH | 34            | -27.8       | 41.86                      | -                  | -           | 74                  | -32.14      | 0              | 100         | V        |
| * 7.34747       | 34.42                | PKFH | 35.7          | -24.1       | 46.02                      | -                  | -           | 74                  | -27.98      | 0              | 100         | H        |
| * 7.30501       | 34.86                | PKFH | 35.7          | -24.7       | 45.86                      | -                  | -           | 74                  | -28.14      | 0              | 100         | V        |
| 9.78729         | 31.47                | PKFH | 37.1          | -21.2       | 47.37                      | -                  | -           | 74                  | -26.63      | 0              | 100         | H        |
| 9.78789         | 31.26                | PKFH | 37.1          | -21.2       | 47.16                      | -                  | -           | 74                  | -26.84      | 0              | 100         | V        |

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95152       | 35.67                | PKFH | 34            | -27.1       | 42.57                      | -                  | -           | 74                  | -31.43      | 0              | 100         | H        |
| * 4.97291       | 35.6                 | PKFH | 34            | -27         | 42.6                       | -                  | -           | 74                  | -31.4       | 0              | 100         | V        |
| * 7.42126       | 34.24                | PKFH | 35.7          | -23.6       | 46.34                      | -                  | -           | 74                  | -27.66      | 0              | 100         | H        |
| * 7.434         | 32.94                | PKFH | 35.7          | -23.7       | 44.94                      | -                  | -           | 74                  | -29.06      | 0              | 100         | V        |
| 9.89845         | 30.91                | PKFH | 37.3          | -21.2       | 47.01                      | -                  | -           | 74                  | -26.99      | 0              | 100         | H        |
| 9.89816         | 30.55                | PKFH | 37.3          | -21.2       | 46.65                      | -                  | -           | 74                  | -27.35      | 0              | 100         | V        |

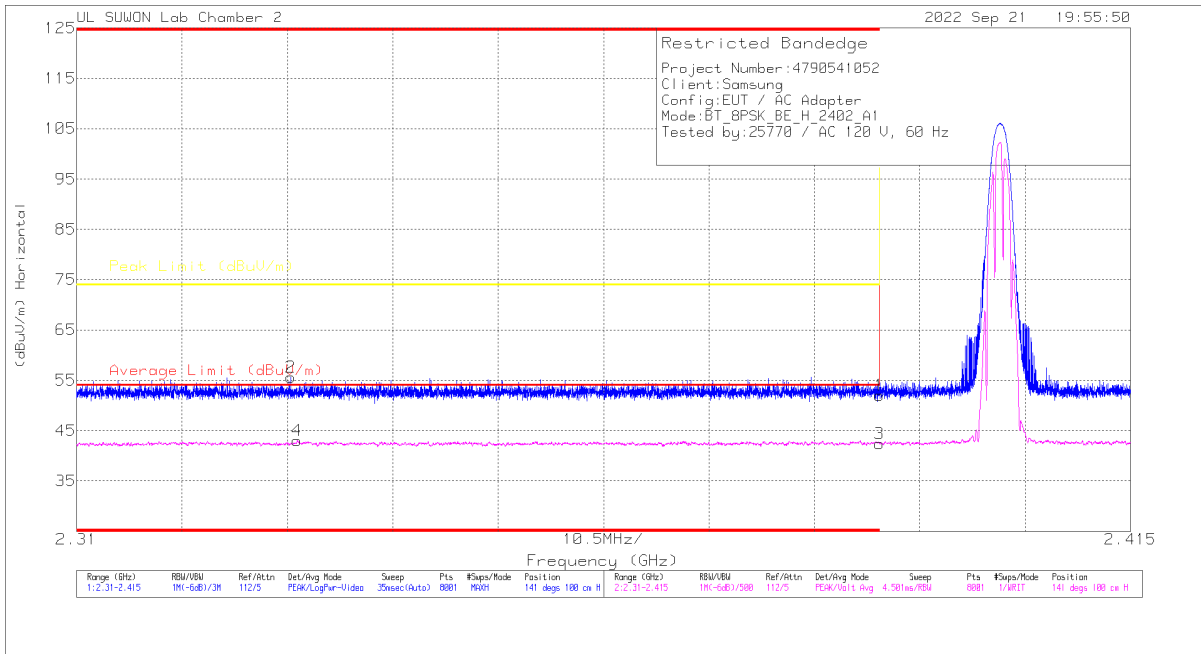
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak



**- ANT2**  
**BANDEGE (0 CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

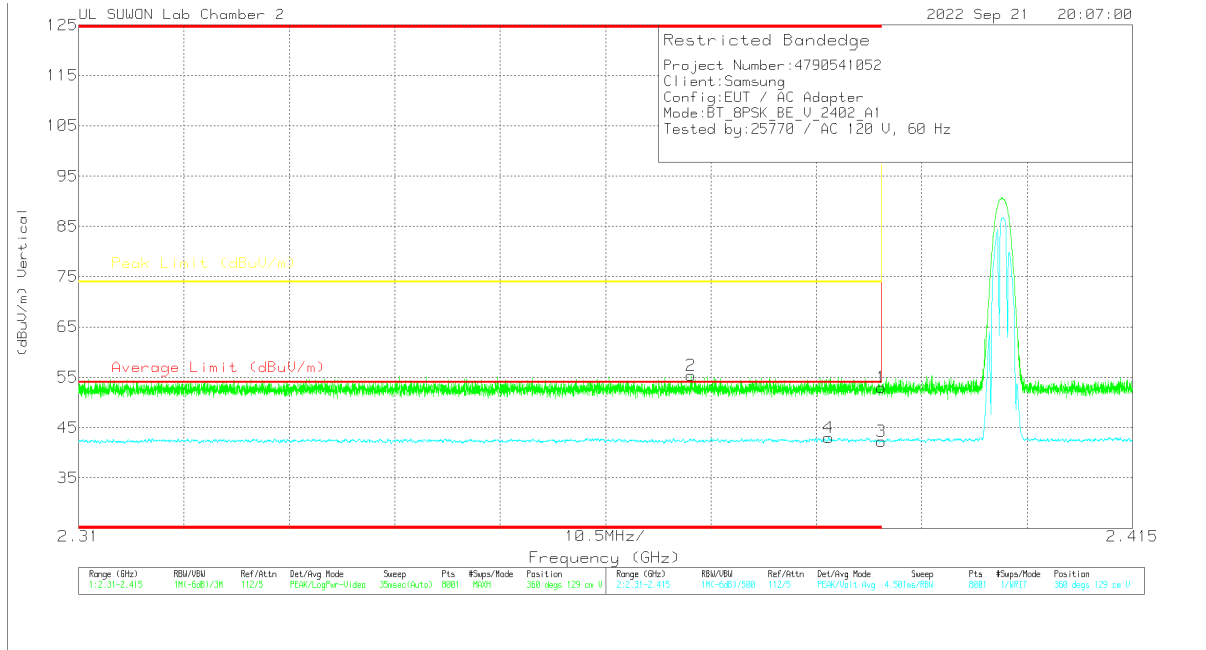
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 39.98                | Pk   | 31.7          | -19.7        | 51.98                      | -                      | -           | 74                  | -22.02         | 141            | 100         | H        |
| 2      | * 2.33132       | 43.63                | Pk   | 31.6          | -19.6        | 55.63                      | -                      | -           | 74                  | -18.37         | 141            | 100         | H        |
| 3      | * 2.39          | 30.4                 | VA1T | 31.7          | -19.7        | 42.4                       | 54                     | -11.6       | -                   | -              | 141            | 100         | H        |
| 4      | * 2.33197       | 30.98                | VA1T | 31.6          | -19.5        | 43.08                      | 54                     | -10.92      | -                   | -              | 141            | 100         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 40.98                | Pk   | 31.7          | -19.7        | 52.98                      | -                      | -           | 74                  | -21.02         | 360            | 129         | V        |
| 2      | * 2.37103       | 43.31                | Pk   | 31.7          | -19.6        | 55.41                      | -                      | -           | 74                  | -18.59         | 360            | 129         | V        |
| 3      | * 2.39          | 30.23                | VA1T | 31.7          | -19.7        | 42.23                      | 54                     | -11.77      | -                   | -              | 360            | 129         | V        |
| 4      | * 2.38471       | 30.96                | VA1T | 31.7          | -19.6        | 43.06                      | 54                     | -10.94      | -                   | -              | 360            | 129         | V        |

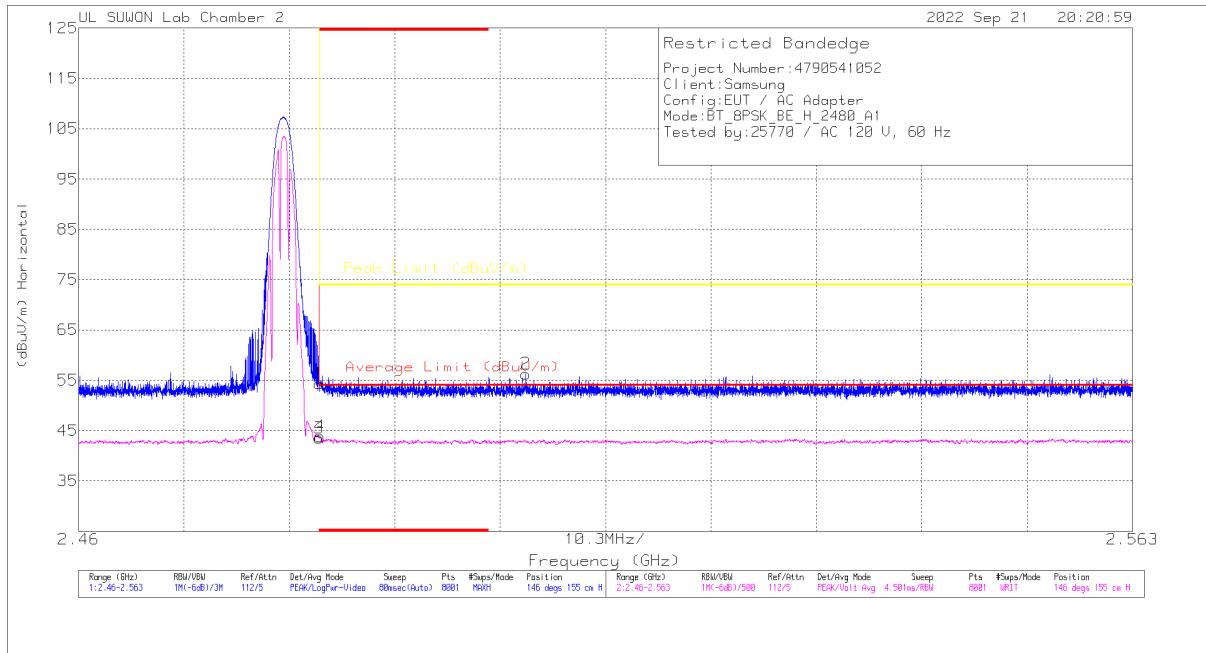
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

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

## BANDEDGE (78 CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

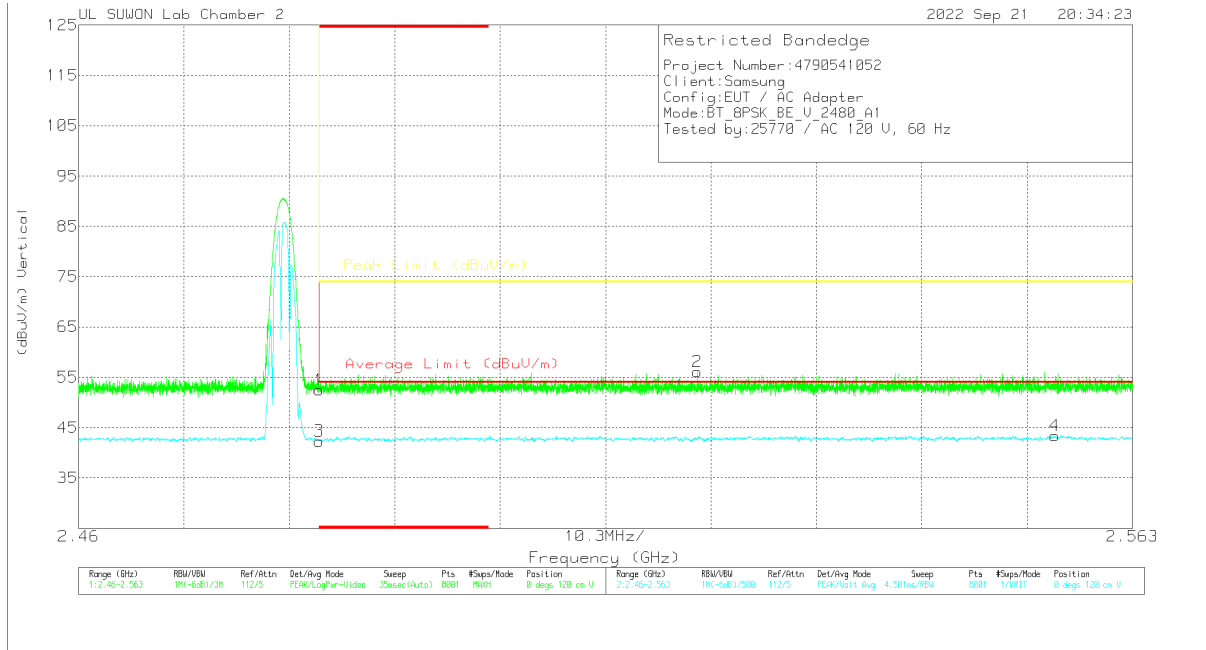
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 42.04                | Pk   | 31.9          | -19.6        | 54.34                      | -                      | -           | 74                  | -19.66         | 146            | 155         | H        |
| 2      | 2.5037          | 43.9                 | Pk   | 31.9          | -19.5        | 56.3                       | -                      | -           | 74                  | -17.7          | 146            | 155         | H        |
| 3      | * 2.48351       | 31.26                | VA1T | 31.9          | -19.6        | 43.56                      | 54                     | -10.44      | -                   | -              | 146            | 155         | H        |
| 4      | * 2.48359       | 31.54                | VA1T | 31.9          | -19.6        | 43.84                      | 54                     | -10.16      | -                   | -              | 146            | 155         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.23                | Pk   | 31.9          | -19.6        | 52.53                      | -                      | -           | 74                  | -21.47         | 0              | 120         | V        |
| 2      | 2.52046         | 43.74                | Pk   | 31.9          | -19.5        | 56.14                      | -                      | -           | 74                  | -17.86         | 0              | 120         | V        |
| 3      | * 2.48351       | 30.04                | VA1T | 31.9          | -19.6        | 42.34                      | 54                     | -11.66      | -                   | -              | 0              | 120         | V        |
| 4      | 2.55542         | 30.66                | VA1T | 32            | -19.3        | 43.36                      | 54                     | -10.64      | -                   | -              | 0              | 120         | V        |

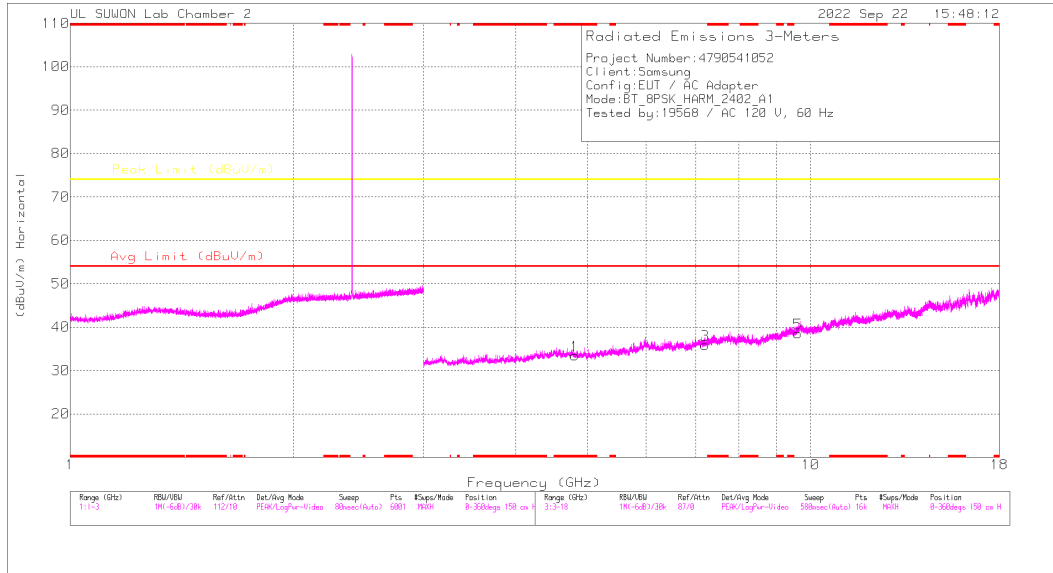
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

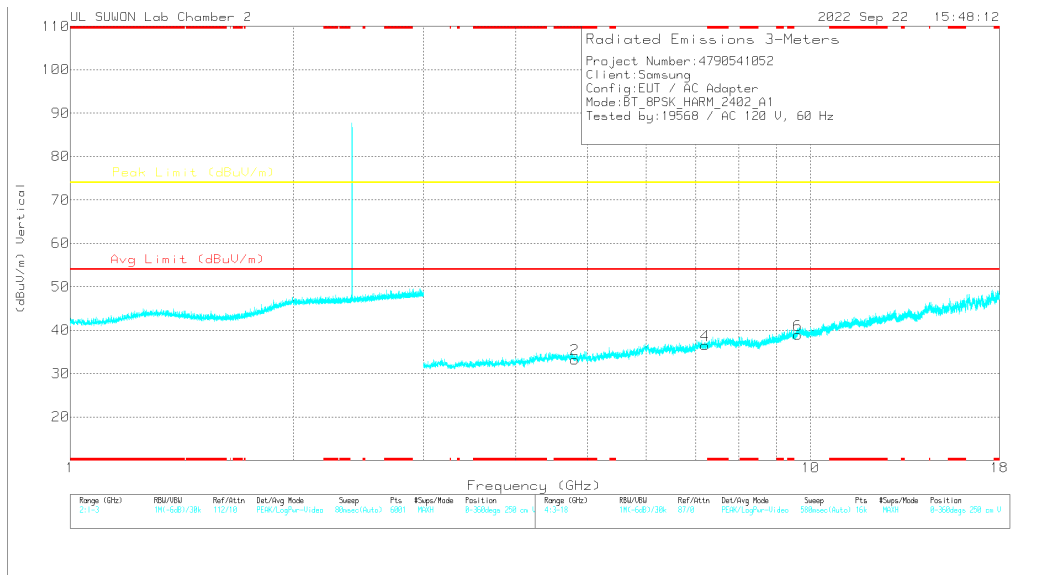
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

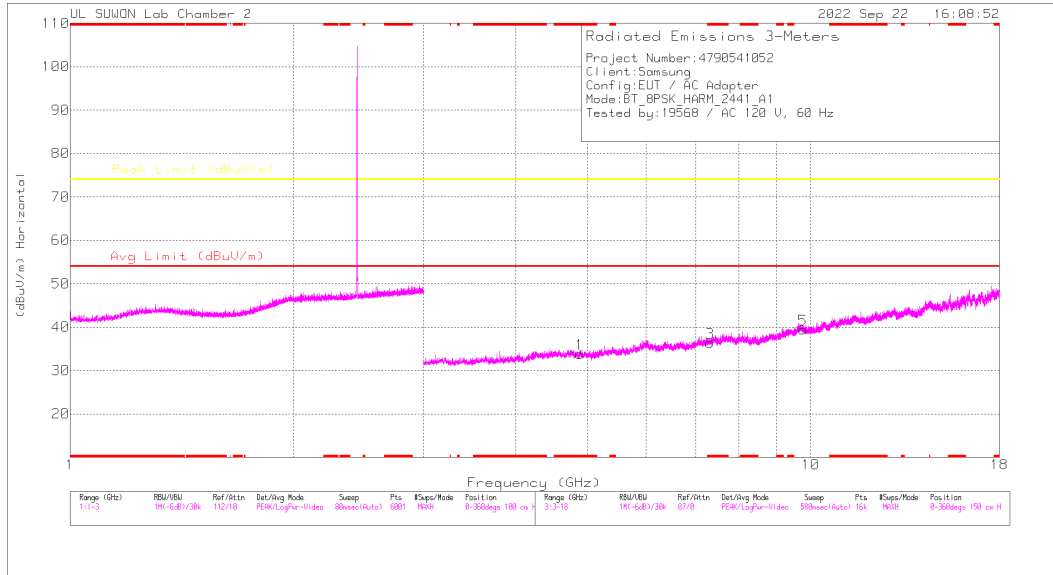
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.82756       | 36.42                | PKFH | 34            | -27.9       | 42.52                      | -                  | -           | 74                  | -31.48      | 0              | 100         | H        |
| * 4.78087       | 35.79                | PKFH | 34            | -27.5       | 42.29                      | -                  | -           | 74                  | -31.71      | 0              | 100         | V        |
| 7.19142         | 34.78                | PKFH | 35.6          | -24.9       | 45.48                      | -                  | -           | 74                  | -28.52      | 0              | 100         | H        |
| 7.19395         | 33.94                | PKFH | 35.6          | -24.9       | 44.64                      | -                  | -           | 74                  | -29.36      | 0              | 100         | V        |
| 9.58727         | 32.17                | PKFH | 36.9          | -21.5       | 47.57                      | -                  | -           | 74                  | -26.43      | 0              | 100         | H        |
| 9.61239         | 32.1                 | PKFH | 36.9          | -21.3       | 47.7                       | -                  | -           | 74                  | -26.3       | 0              | 100         | V        |

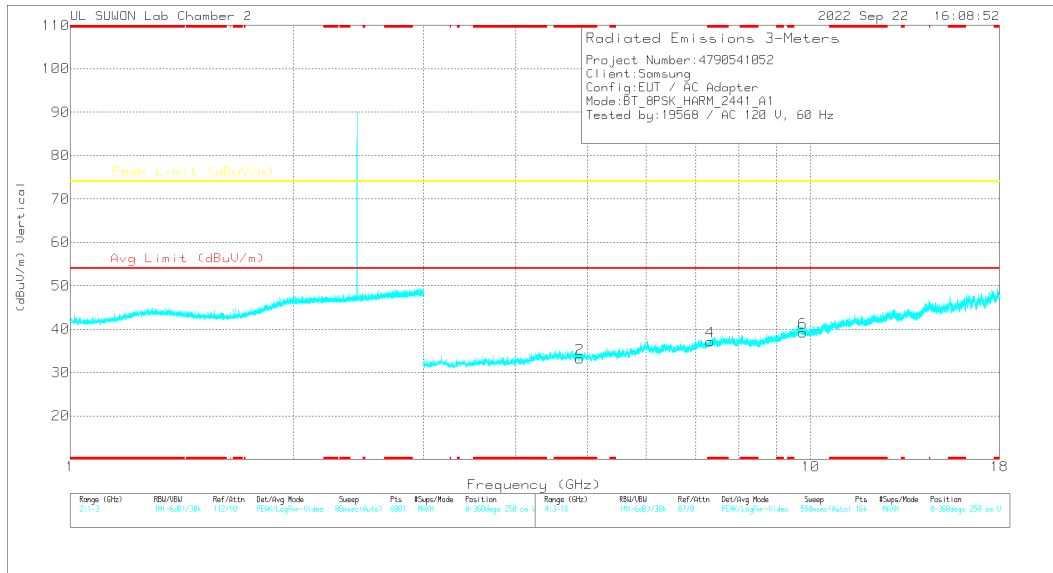
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

### 39 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

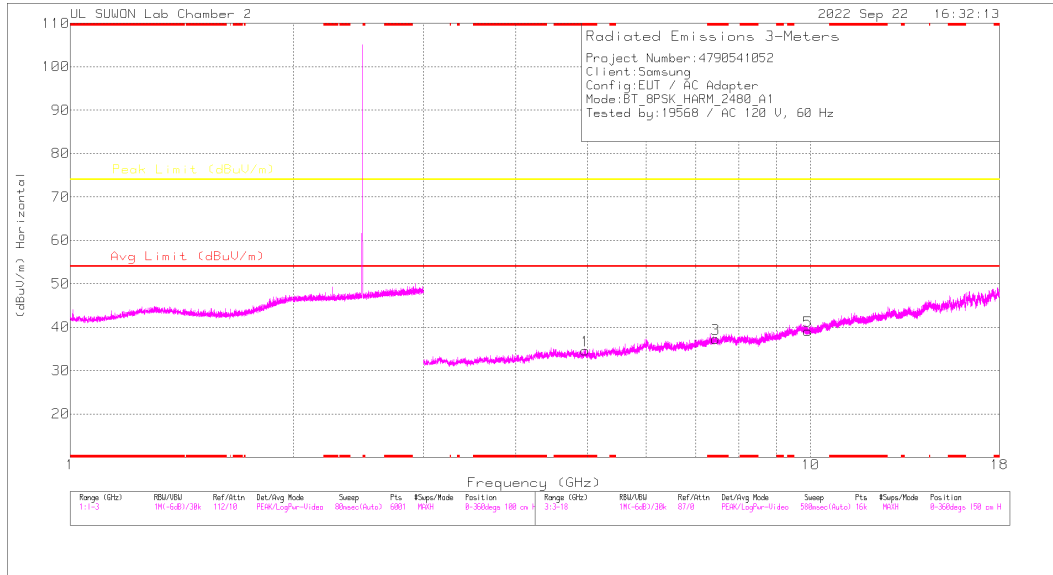
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.87514       | 35.5                 | PKFH | 34            | -27.7       | 41.8                       | -                  | -           | 74                  | -32.2       | 0              | 100         | H        |
| * 4.88037       | 35.94                | PKFH | 34            | -27.6       | 42.34                      | -                  | -           | 74                  | -31.66      | 0              | 100         | V        |
| * 7.30842       | 34.04                | PKFH | 35.7          | -24.6       | 45.14                      | -                  | -           | 74                  | -28.86      | 0              | 100         | H        |
| * 7.30877       | 34.69                | PKFH | 35.7          | -24.6       | 45.79                      | -                  | -           | 74                  | -28.21      | 0              | 100         | V        |
| 9.77681         | 32.41                | PKFH | 37.1          | -21.2       | 48.31                      | -                  | -           | 74                  | -25.69      | 0              | 100         | H        |
| 9.75577         | 32.01                | PKFH | 37.1          | -20.9       | 48.21                      | -                  | -           | 74                  | -25.79      | 0              | 100         | V        |

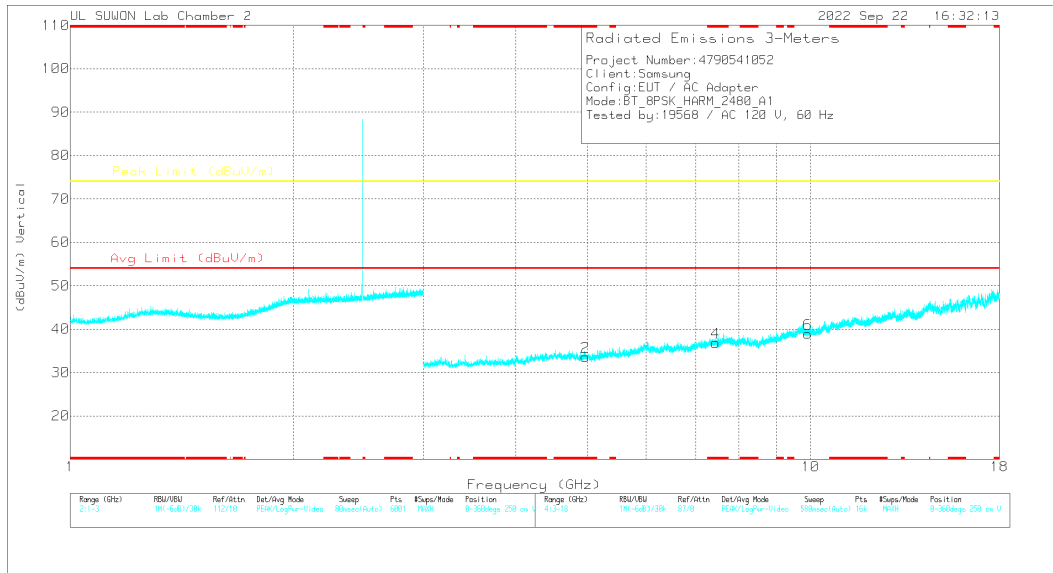
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

## RADIATED EMISSIONS

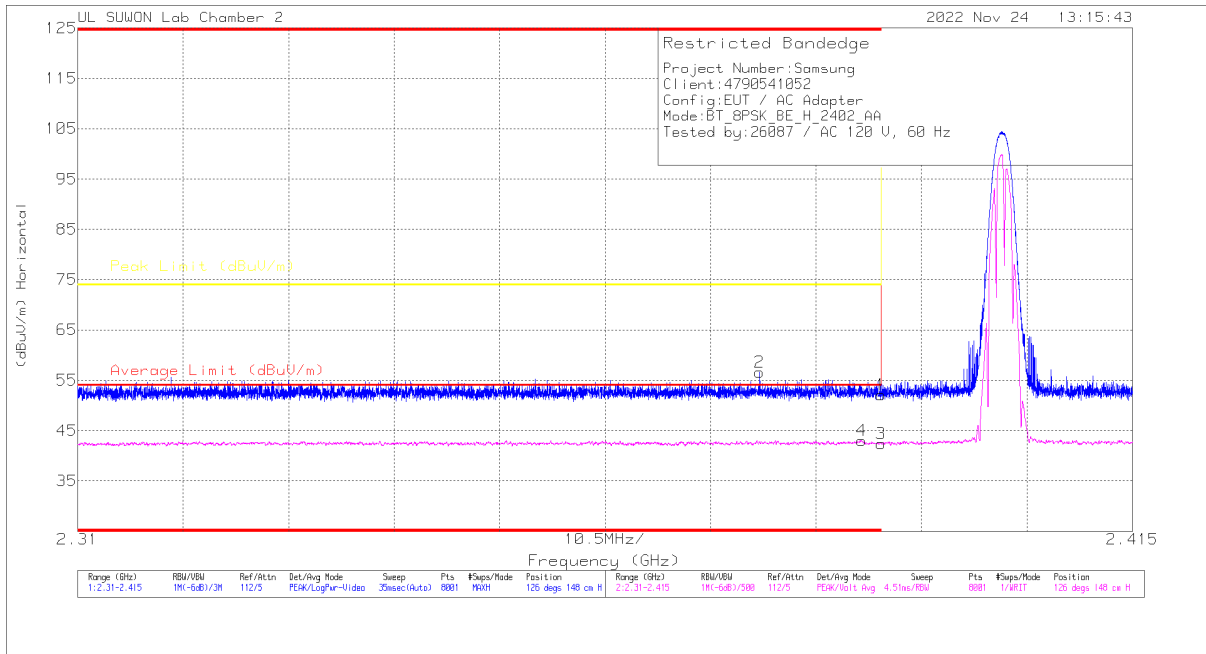
| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP(dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.96187       | 34.13                | PKFH | 34            | -27         | 41.13                      | -                  | -           | 74                  | -32.87      | 0              | 100         | H        |
| * 4.94354       | 34.72                | PKFH | 34            | -27.1       | 41.62                      | -                  | -           | 74                  | -32.38      | 0              | 100         | V        |
| * 7.43774       | 33.2                 | PKFH | 35.7          | -23.7       | 45.2                       | -                  | -           | 74                  | -28.8       | 0              | 100         | H        |
| * 7.44641       | 32.83                | PKFH | 35.7          | -23.8       | 44.73                      | -                  | -           | 74                  | -29.27      | 0              | 100         | V        |
| 9.9182          | 31                   | PKFH | 37.3          | -21         | 47.3                       | -                  | -           | 74                  | -26.7       | 0              | 100         | H        |
| 9.90221         | 30.97                | PKFH | 37.3          | -21.2       | 47.07                      | -                  | -           | 74                  | -26.93      | 0              | 100         | V        |

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

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

**- BT-DUAL(MIMO)  
BANDEDGE (0 CHANNEL)**

**HORIZONTAL RESULT**



**Trace Markers**

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 40.1                 | PK   | 31.7          | -19.7        | 52.1                       | -                      | -           | 74                  | -21.9          | 126            | 148         | H        |
| 2      | * 2.3779        | 44.4                 | PK   | 31.7          | -19.5        | 56.6                       | -                      | -           | 74                  | -17.4          | 126            | 148         | H        |
| 3      | * 2.39          | 30.37                | VA1T | 31.7          | -19.7        | 42.37                      | 54                     | -11.63      | -                   | -              | 126            | 148         | H        |
| 4      | * 2.38802       | 30.85                | VA1T | 31.7          | -19.5        | 43.05                      | 54                     | -10.95      | -                   | -              | 126            | 148         | H        |

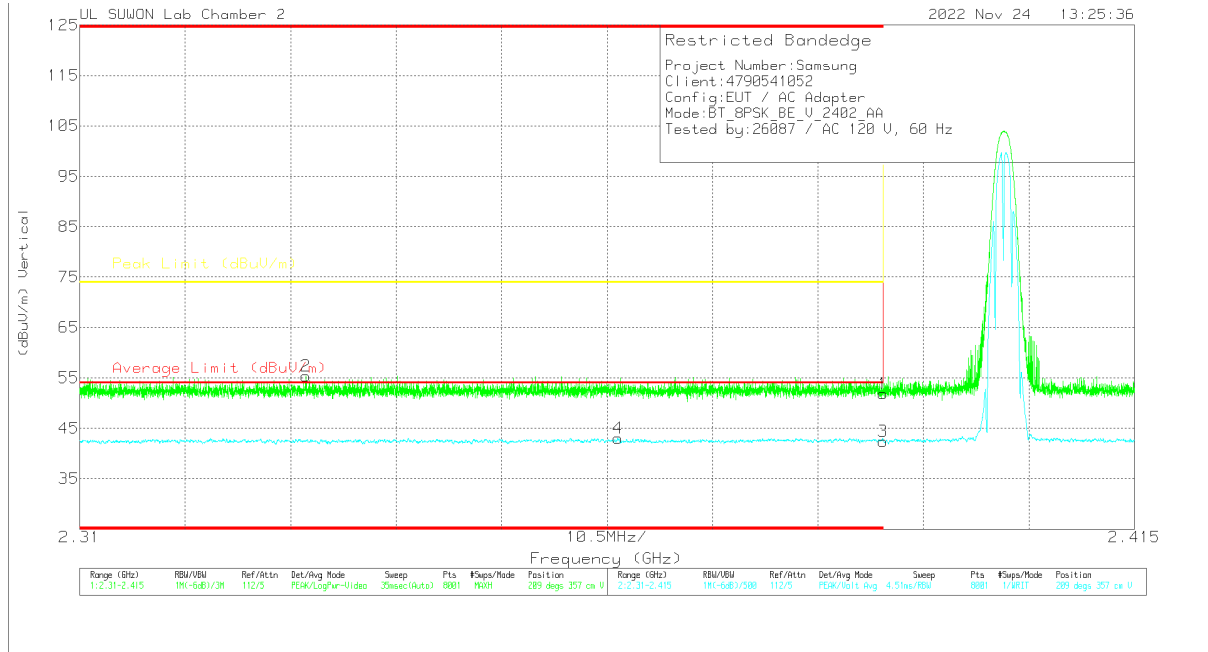
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

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



## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.39          | 39.87                | Pk   | 31.7          | -19.7        | 51.87                      | -                      | -           | 74                  | -22.13         | 209            | 357         | V        |
| 2      | * 2.3325        | 43.25                | Pk   | 31.6          | -19.5        | 55.35                      | -                      | -           | 74                  | -18.65         | 209            | 357         | V        |
| 3      | * 2.39          | 30.44                | VA1T | 31.7          | -19.7        | 42.44                      | 54                     | -11.56      | -                   | -              | 209            | 357         | V        |
| 4      | * 2.36356       | 31.07                | VA1T | 31.6          | -19.6        | 43.07                      | 54                     | -10.93      | -                   | -              | 209            | 357         | V        |

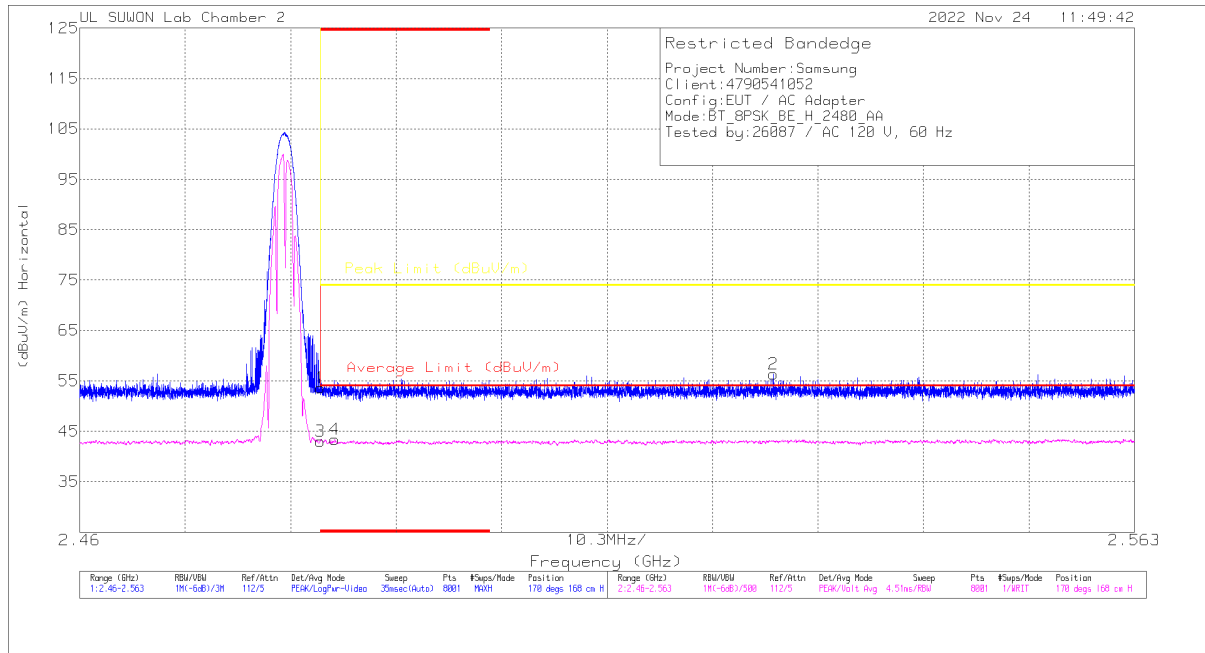
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

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

## BANDEDGE (78 CHANNEL)

### HORIZONTAL RESULT



### Trace Markers

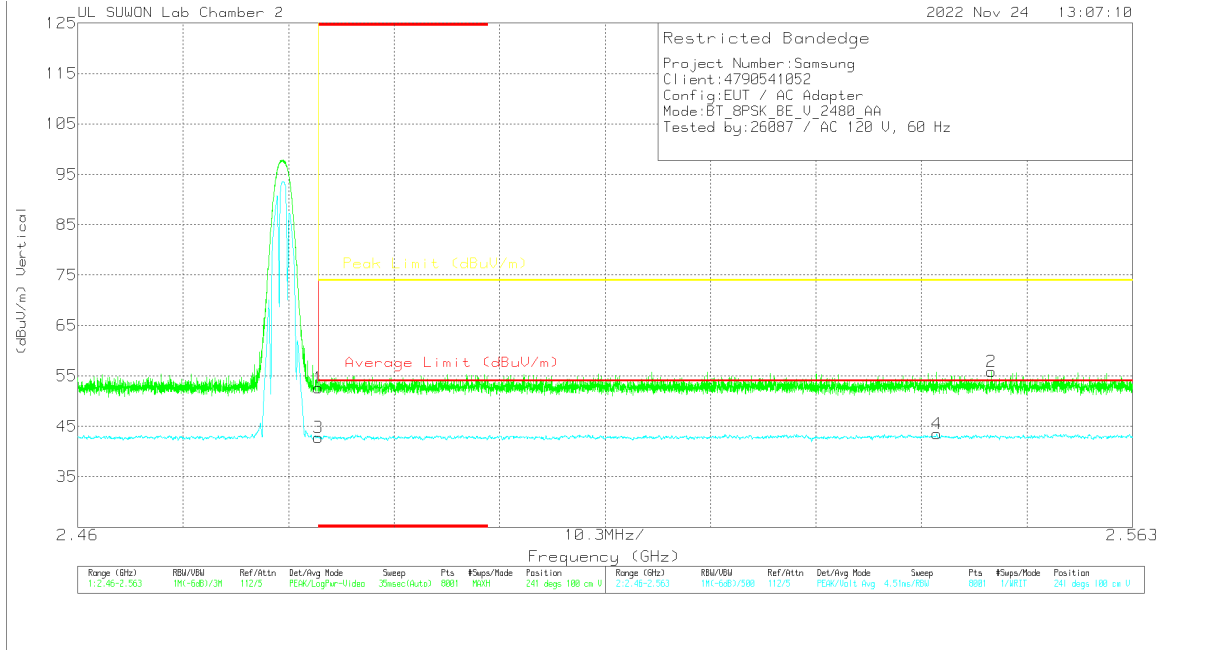
| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 41.29                | Pk   | 31.9          | -19.6        | 53.59                      | -                      | -           | 74                  | -20.41         | 170            | 168         | H        |
| 2      | 2.52777         | 43.91                | Pk   | 31.9          | -19.5        | 56.31                      | -                      | -           | 74                  | -17.69         | 170            | 168         | H        |
| 3      | * 2.48351       | 30.7                 | VA1T | 31.9          | -19.6        | 43                         | 54                     | -11         | -                   | -              | 170            | 168         | H        |
| 4      | * 2.4849        | 31.1                 | VA1T | 31.9          | -19.6        | 43.4                       | 54                     | -10.6       | -                   | -              | 170            | 168         | H        |

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

Pk - Peak detector

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

## VERTICAL RESULT



## Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 10dB_ATT[dB] | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|------|---------------|--------------|----------------------------|------------------------|-------------|---------------------|----------------|----------------|-------------|----------|
| 1      | * 2.48351       | 40.28                | Pk   | 31.9          | -19.6        | 52.58                      | -                      | -           | 74                  | -21.42         | 241            | 100         | V        |
| 2      | 2.54924         | 43.34                | Pk   | 32            | -19.5        | 55.84                      | -                      | -           | 74                  | -18.16         | 241            | 100         | V        |
| 3      | * 2.48351       | 30.46                | VA1T | 31.9          | -19.6        | 42.76                      | 54                     | -11.24      | -                   | -              | 241            | 100         | V        |
| 4      | 2.54389         | 30.99                | VA1T | 32            | -19.5        | 43.49                      | 54                     | -10.51      | -                   | -              | 241            | 100         | V        |

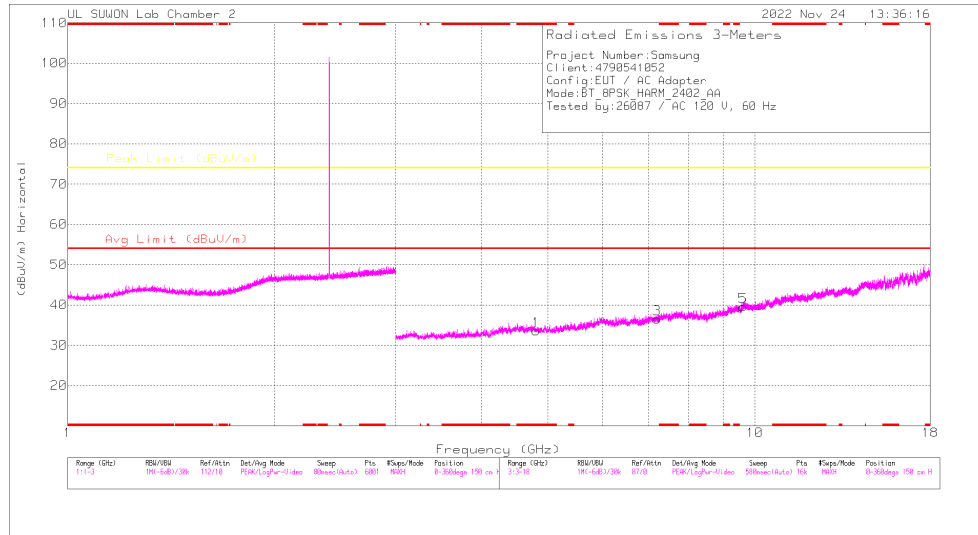
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

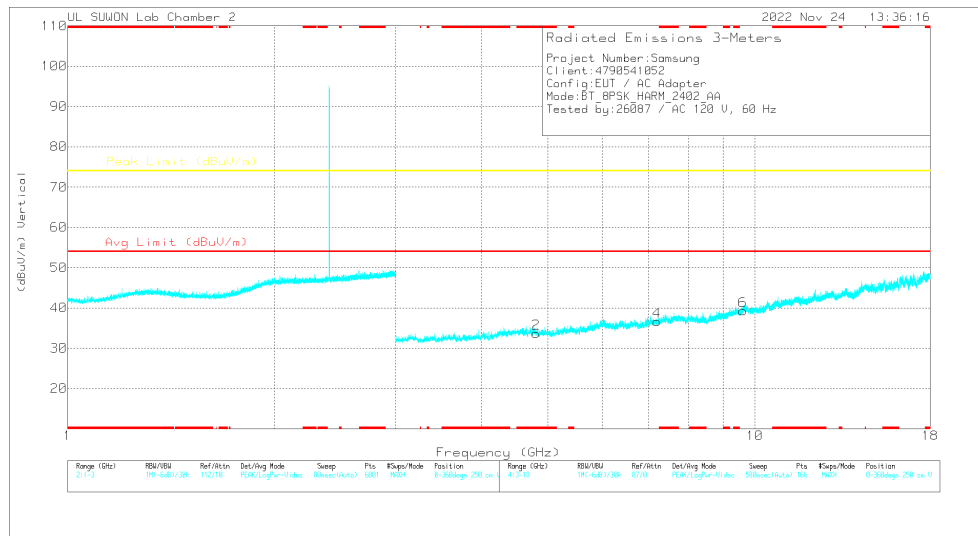
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

## HARMONICS AND SPURIOUS EMISSIONS

### 0 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

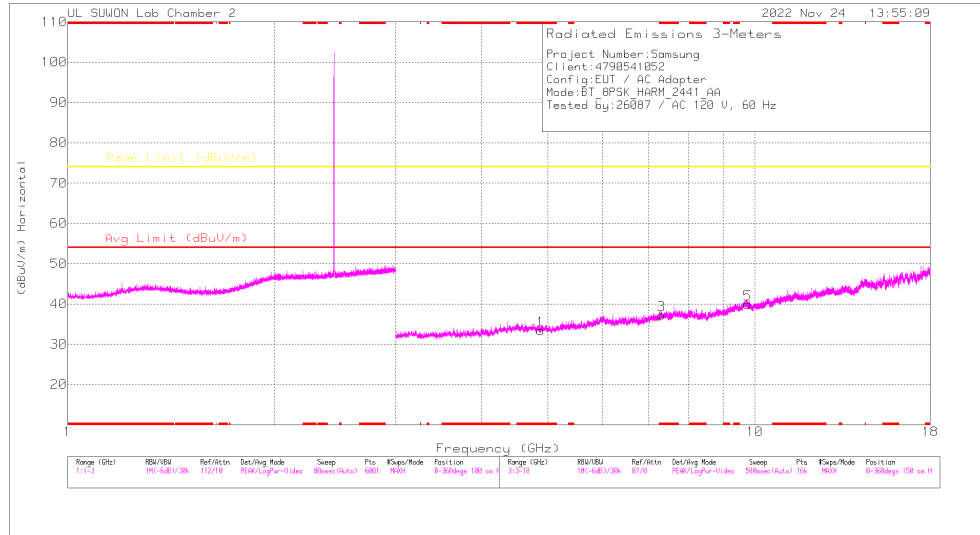
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.80296       | 34.97                | PKFH | 34            | -27.7       | 41.27                      | -                  | -           | 74                  | -32.73      | 0              | 100         | H        |
| * 4.80485       | 34.39                | PKFH | 34            | -27.7       | 40.69                      | -                  | -           | 74                  | -33.31      | 0              | 100         | V        |
| 7.20742         | 32.84                | PKFH | 35.7          | -25.1       | 43.44                      | -                  | -           | 74                  | -30.56      | 0              | 100         | H        |
| 7.20648         | 34                   | PKFH | 35.7          | -25         | 44.7                       | -                  | -           | 74                  | -29.3       | 0              | 100         | V        |
| 9.60831         | 31.18                | PKFH | 36.9          | -21.3       | 46.78                      | -                  | -           | 74                  | -27.22      | 0              | 100         | H        |
| 9.60726         | 31.42                | PKFH | 36.9          | -21.3       | 47.02                      | -                  | -           | 74                  | -26.98      | 0              | 100         | V        |

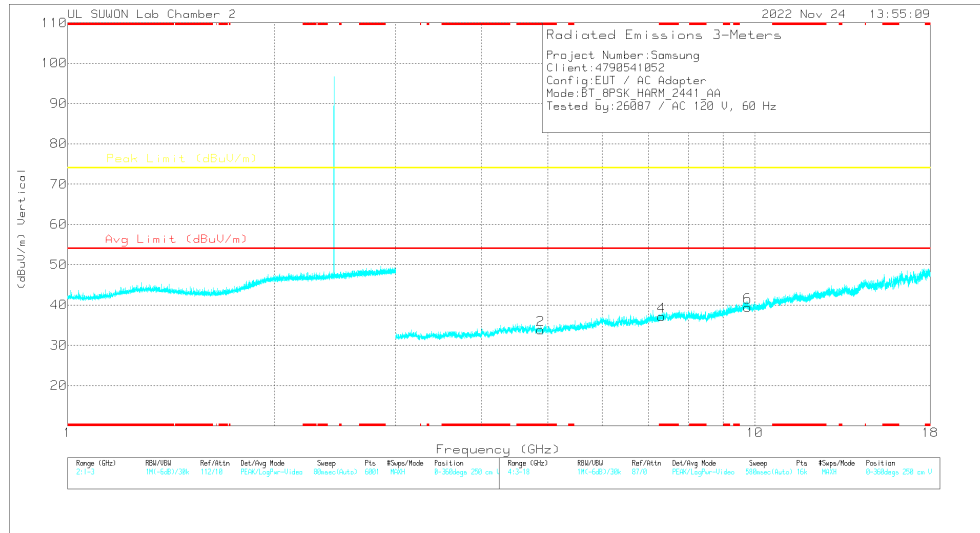
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

### 39 CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

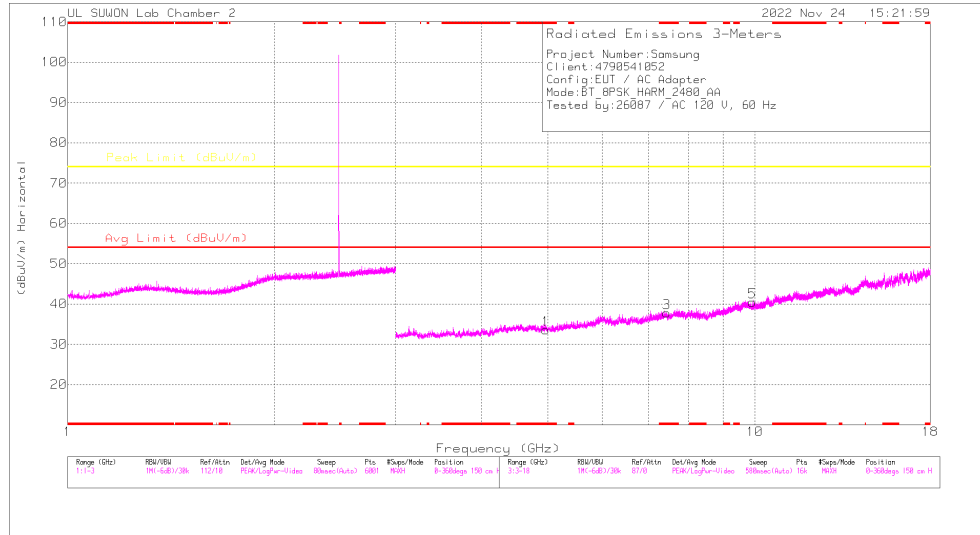
### RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.88322       | 35.15                | PKFH | 34            | -27.6       | 41.55                      | -                  | -           | 74                  | -32.45      | 0              | 100         | H        |
| * 4.88374       | 34.83                | PKFH | 34            | -27.6       | 41.23                      | -                  | -           | 74                  | -32.77      | 0              | 100         | V        |
| * 7.32211       | 33.96                | PKFH | 35.7          | -24.5       | 45.16                      | -                  | -           | 74                  | -28.84      | 0              | 100         | H        |
| * 7.3234        | 33.35                | PKFH | 35.7          | -24.4       | 44.65                      | -                  | -           | 74                  | -29.35      | 0              | 100         | V        |
| 9.76483         | 31.13                | PKFH | 37.1          | -21         | 47.23                      | -                  | -           | 74                  | -26.77      | 0              | 100         | H        |
| 9.76302         | 31.09                | PKFH | 37.1          | -21         | 47.19                      | -                  | -           | 74                  | -26.81      | 0              | 100         | V        |

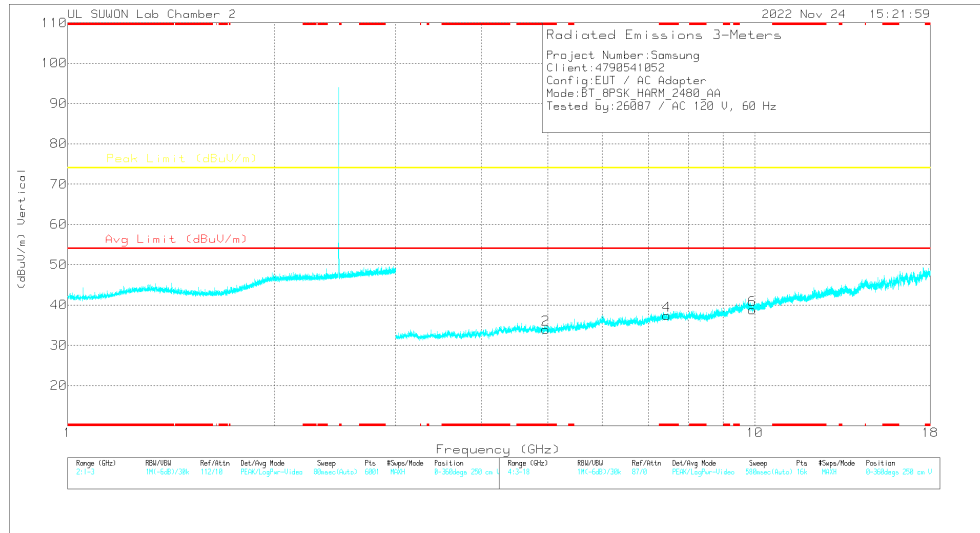
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 78 CHANNEL RESULTS



## HORIZONTAL



## VERTICAL

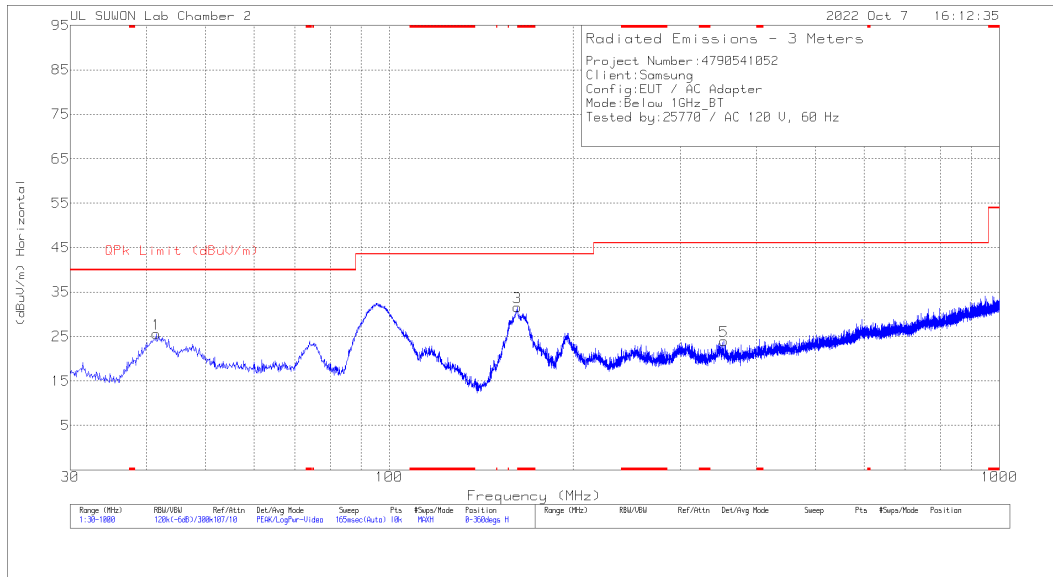
## RADIATED EMISSIONS

| Frequency (GHz) | Meter Reading (dBuV) | Det  | 3117_00168724 | 3GHz_HP[dB] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|---------------|-------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95837       | 34.75                | PKFH | 34            | -27         | 41.75                      | -                  | -           | 74                  | -32.25      | 0              | 100         | H        |
| * 4.96085       | 34.79                | PKFH | 34            | -27         | 41.79                      | -                  | -           | 74                  | -32.21      | 0              | 100         | V        |
| * 7.44019       | 33.05                | PKFH | 35.7          | -23.7       | 45.05                      | -                  | -           | 74                  | -28.95      | 0              | 100         | H        |
| * 7.4424        | 34.11                | PKFH | 35.7          | -23.7       | 46.11                      | -                  | -           | 74                  | -27.89      | 0              | 100         | V        |
| 9.91997         | 30.61                | PKFH | 37.3          | -21.1       | 46.81                      | -                  | -           | 74                  | -27.19      | 0              | 100         | H        |
| 9.92035         | 30.88                | PKFH | 37.3          | -21.1       | 47.08                      | -                  | -           | 74                  | -26.92      | 0              | 100         | V        |

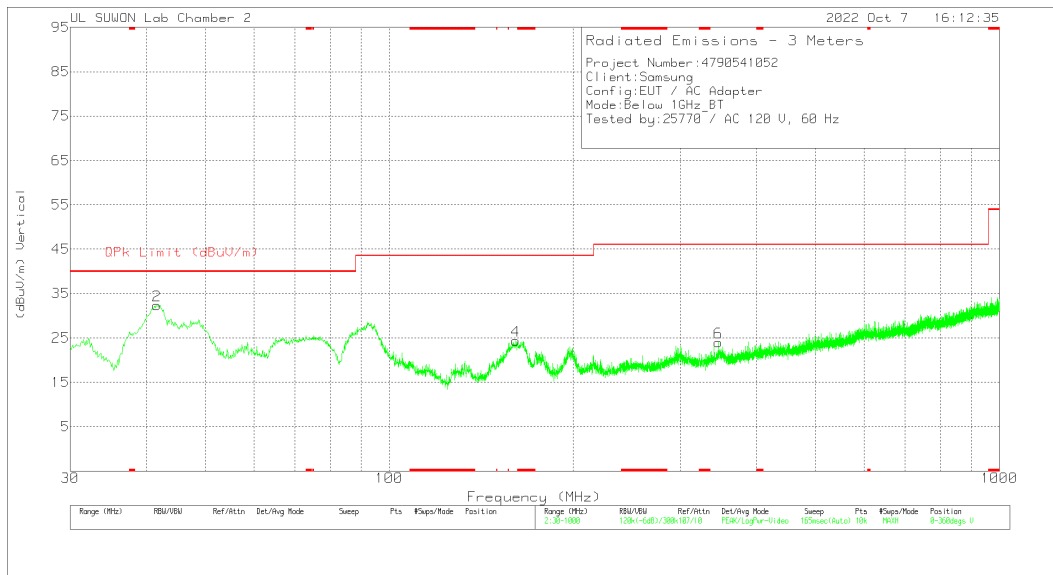
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH FHSS/BT RB=100k for Frequencies<1GHz / RB=1MHz for Frequencies>1GHz, VB=3 x RB, Peak

## 10.2. WORST CASE BELOW 1 GHZ SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



### HORIZONTAL



### VERTICAL

### BELOW 1GHZ

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_749 | Below 1G[dB] | Corrected Reading (dBuV/m) | OPR Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1      | 41.543          | 37.79                | Pk  | 19.2         | -31.4        | 25.59                      | 40                 | -14.41      | 0-360          | 400         | H        |
| 2      | 41.64           | 44.59                | Pk  | 19.2         | -31.4        | 32.39                      | 40                 | -7.61       | 0-360          | 100         | V        |
| 3      | * 162.211       | 47.2                 | Pk  | 14.4         | -30          | 31.6                       | 43.52              | -11.92      | 0-360          | 200         | H        |
| 4      | 161.241         | 39.96                | Pk  | 14.4         | -30          | 24.36                      | 43.52              | -19.16      | 0-360          | 100         | V        |
| 5      | 353.398         | 32.2                 | Pk  | 20.5         | -28.7        | 24                         | 46.02              | -22.02      | 0-360          | 200         | H        |
| 6      | 345.929         | 32.14                | Pk  | 20.6         | -28.7        | 24.04                      | 46.02              | -21.98      | 0-360          | 100         | V        |

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

## 11. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

FCC §15.207 (a)

| 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.

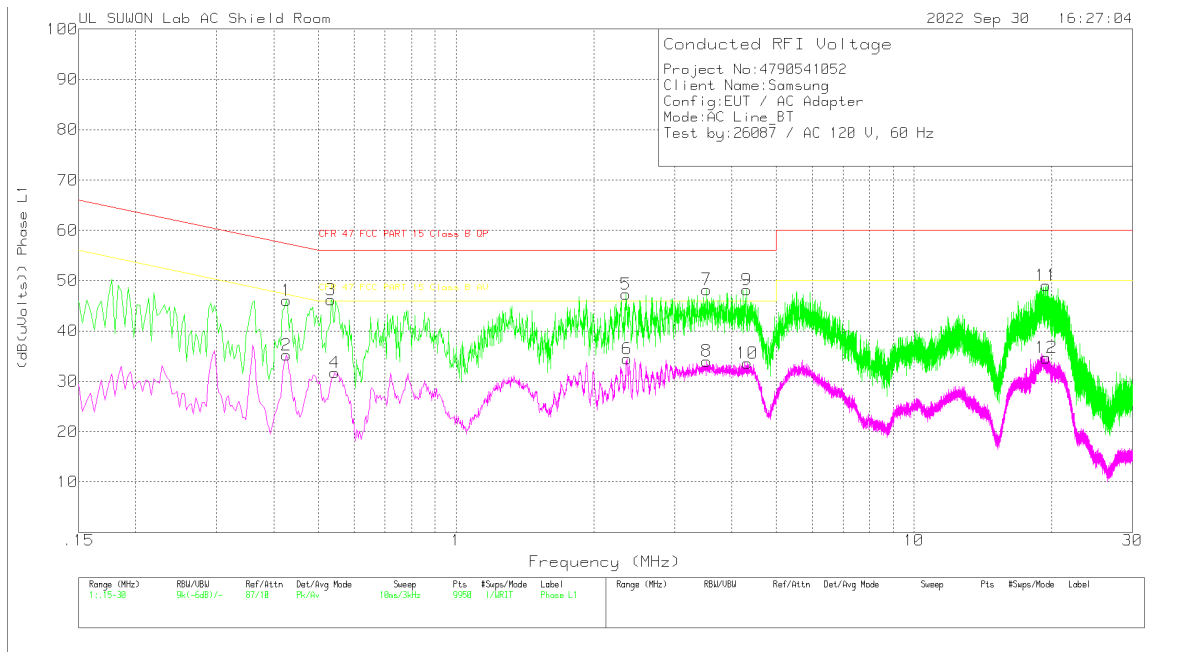
Line conducted data is recorded for both NEUTRAL and HOT lines.

### RESULTS



# 11.1.1. AC Power Line

## LINE 1 RESULTS



### Trace Markers

#### Range 1: Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|------------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 1      | .426            | 36.06                | Pk  | 9.8                    | .2             | 46.06                          | 57.33                         | -11.27      | -                             | -           |
| 2      | .426            | 25.21                | Av  | 9.8                    | .2             | 35.21                          | -                             | -           | 47.33                         | -12.12      |
| 3      | .534            | 36.09                | Pk  | 9.9                    | .2             | 46.19                          | 56                            | -9.81       | -                             | -           |
| 4      | .543            | 21.61                | Av  | 9.9                    | .2             | 31.71                          | -                             | -           | 46                            | -14.29      |
| 5      | 2.352           | 37.35                | Pk  | 9.7                    | .3             | 47.35                          | 56                            | -8.65       | -                             | -           |
| 6      | 2.364           | 24.43                | Av  | 9.7                    | .3             | 34.43                          | -                             | -           | 46                            | -11.57      |
| 7      | 3.531           | 38.25                | Pk  | 9.7                    | .3             | 48.25                          | 56                            | -7.75       | -                             | -           |
| 8      | 3.531           | 24.04                | Av  | 9.7                    | .3             | 34.04                          | -                             | -           | 46                            | -11.96      |
| 9      | 4.311           | 38.18                | Pk  | 9.7                    | .3             | 48.18                          | 56                            | -7.82       | -                             | -           |
| 10     | 4.329           | 23.62                | Av  | 9.7                    | .3             | 33.62                          | -                             | -           | 46                            | -12.38      |
| 11     | 19.446          | 38.58                | Pk  | 10.1                   | .4             | 49.08                          | 60                            | -10.92      | -                             | -           |
| 12     | 19.455          | 24.17                | Av  | 10.1                   | .4             | 34.67                          | -                             | -           | 50                            | -15.33      |

Pk - Peak detector

Av - Average detection

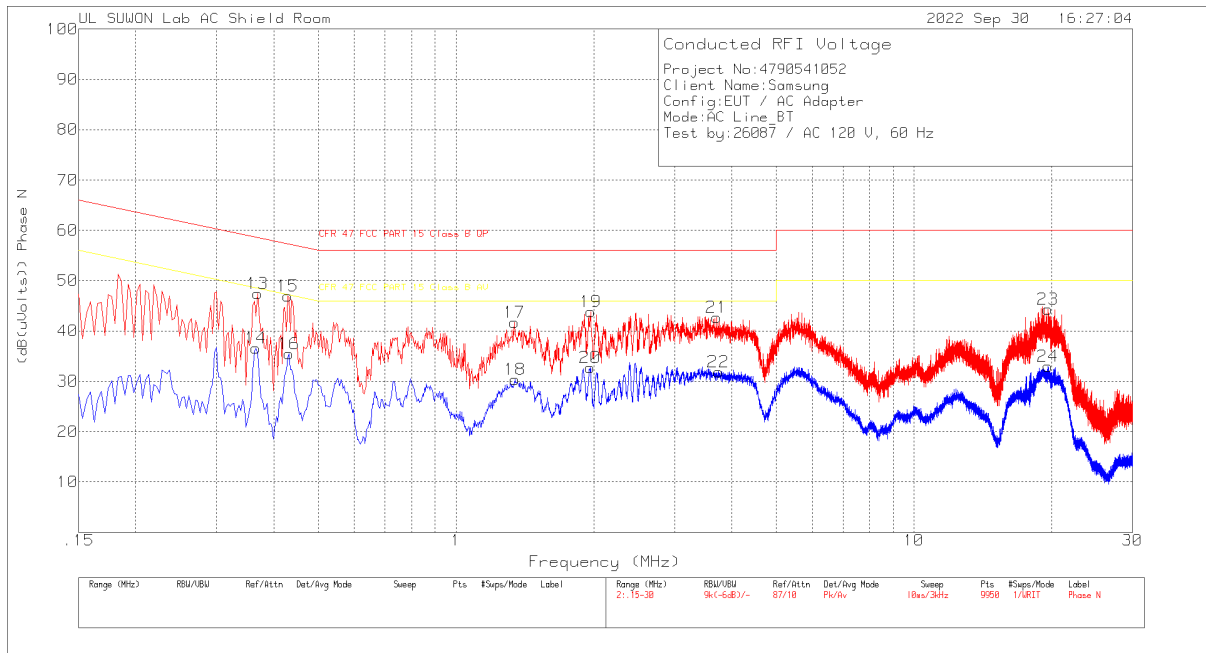
### Quasi-Peak Emissions

#### Range 1: Phase L1 .15 - 30MHz

| Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|-----------------|----------------------|-----|------------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| .53325          | 28.68                | Qp  | 9.9                    | .2             | 38.78                          | 56                            | -17.22      | -                             | -           |
| 2.35275         | 29.28                | Qp  | 9.7                    | .3             | 39.28                          | 56                            | -16.72      | -                             | -           |
| 3.53175         | 31.28                | Qp  | 9.7                    | .3             | 41.28                          | 56                            | -14.72      | -                             | -           |
| 4.31175         | 29.95                | Qp  | 9.7                    | .3             | 39.95                          | 56                            | -16.05      | -                             | -           |

Qp - Quasi-Peak detector

## LINE 2 RESULTS



### Trace Markers

#### Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With EX_N[dB] | CABLELOS S(dB) | Corrected Reading (dB(uVolts)) | CFR 47 FCC PART 15 Class B QP | Margin (dB) | CFR 47 FCC PART 15 Class B AV | Margin (dB) |
|--------|-----------------|----------------------|-----|----------------------|----------------|--------------------------------|-------------------------------|-------------|-------------------------------|-------------|
| 13     | .369            | 37.44                | Pk  | 9.8                  | .2             | 47.44                          | 58.52                         | -11.08      | -                             | -           |
| 14     | .366            | 26.65                | Av  | 9.8                  | .2             | 36.65                          | -                             | -           | 48.59                         | -11.94      |
| 15     | .429            | 36.96                | Pk  | 9.8                  | .2             | 46.96                          | 57.27                         | -10.31      | -                             | -           |
| 16     | .432            | 25.43                | Av  | 9.8                  | .2             | 35.43                          | -                             | -           | 47.21                         | -11.78      |
| 17     | 1.341           | 31.76                | Pk  | 9.7                  | .3             | 41.76                          | 56                            | -14.24      | -                             | -           |
| 18     | 1.344           | 20.31                | Av  | 9.7                  | .3             | 30.31                          | -                             | -           | 46                            | -15.69      |
| 19     | 1.968           | 33.84                | Pk  | 9.7                  | .3             | 43.84                          | 56                            | -12.16      | -                             | -           |
| 20     | 1.962           | 22.7                 | Av  | 9.7                  | .3             | 32.7                           | -                             | -           | 46                            | -13.3       |
| 21     | 3.708           | 32.69                | Pk  | 9.7                  | .3             | 42.69                          | 56                            | -13.31      | -                             | -           |
| 22     | 3.738           | 21.85                | Av  | 9.7                  | .3             | 31.85                          | -                             | -           | 46                            | -14.15      |
| 23     | 19.59           | 33.74                | Pk  | 10.2                 | .4             | 44.34                          | 60                            | -15.66      | -                             | -           |
| 24     | 19.593          | 22.34                | Av  | 10.2                 | .4             | 32.94                          | -                             | -           | 50                            | -17.06      |

Pk - Peak detector

Av - Average detection

## END OF TEST REPORT