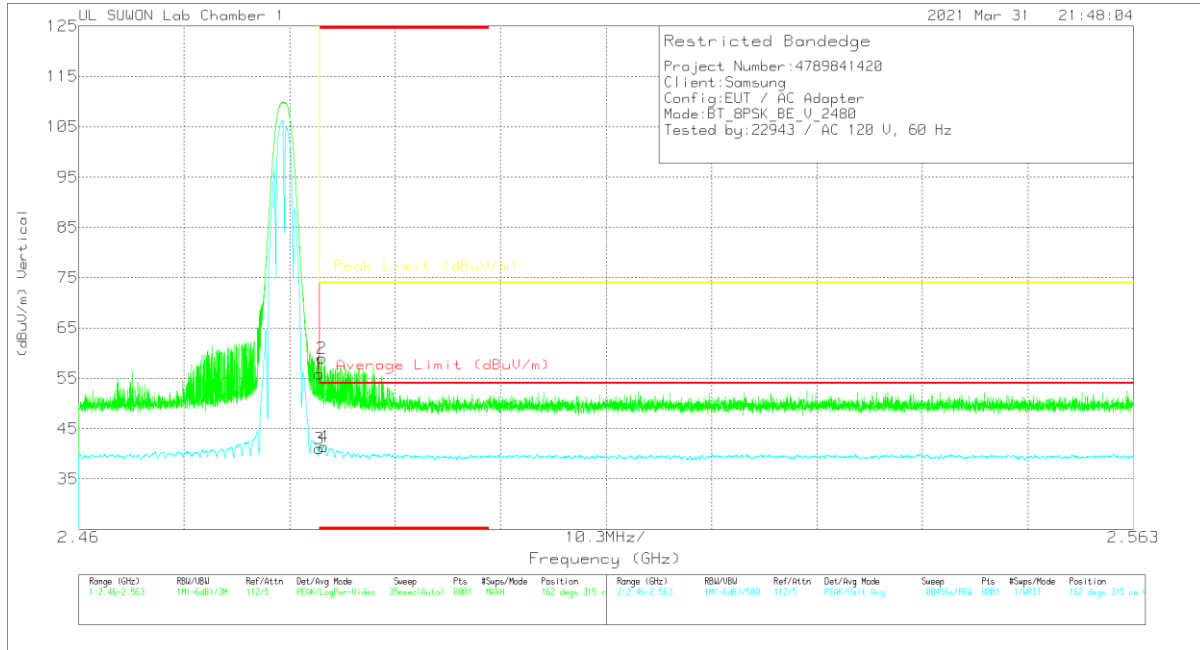


VERTICAL RESULT



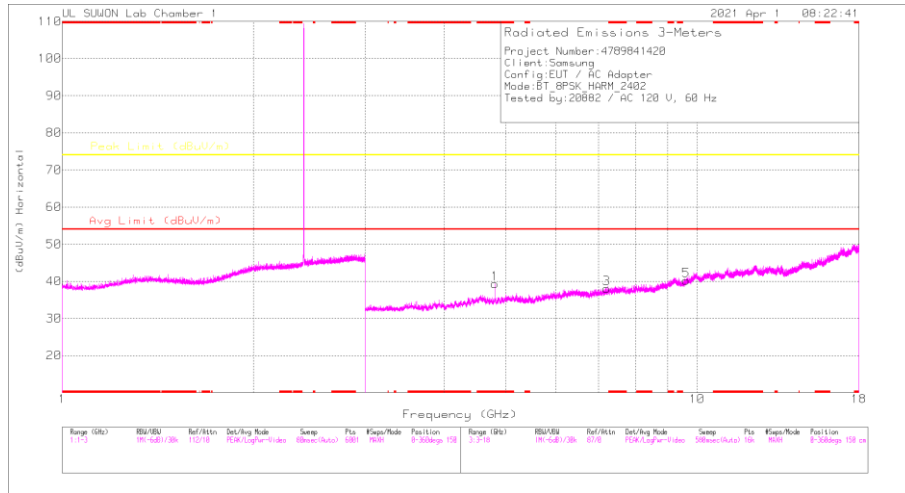
Trace Markers

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_00168717 | 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 | 49.22 | Pk | 32 | -25.3 | 55.92 | - | - | 74 | -18.08 | 162 | 315 | V |
| 2 | * 2.48373 | 52.26 | Pk | 32 | -25.3 | 58.96 | - | - | 74 | -15.04 | 162 | 315 | V |
| 3 | * 2.48351 | 34.37 | VA1T | 32 | -25.3 | 41.07 | 54 | -12.93 | - | - | 162 | 315 | V |
| 4 | * 2.48393 | 34.67 | VA1T | 32 | -25.3 | 41.37 | 54 | -12.63 | - | - | 162 | 315 | V |

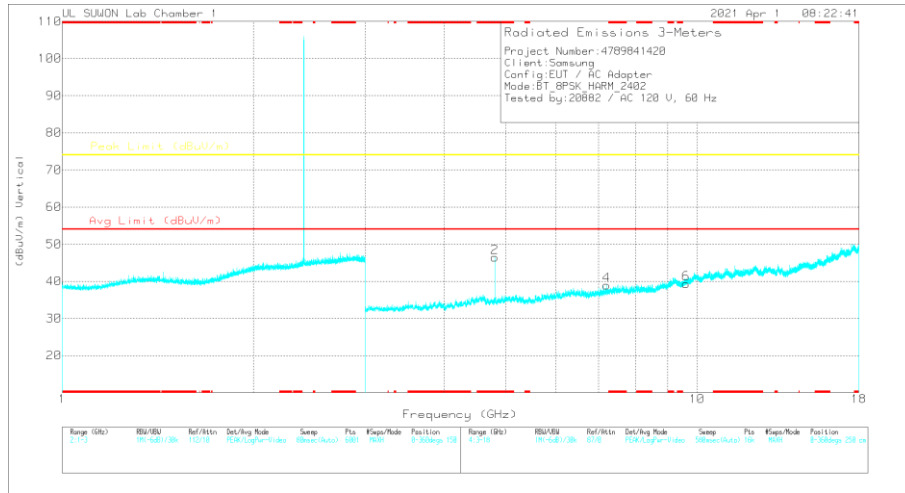
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

HARMONICS AND SPURIOUS EMISSIONS

0 CHANNEL RESULTS



HORIZONTAL



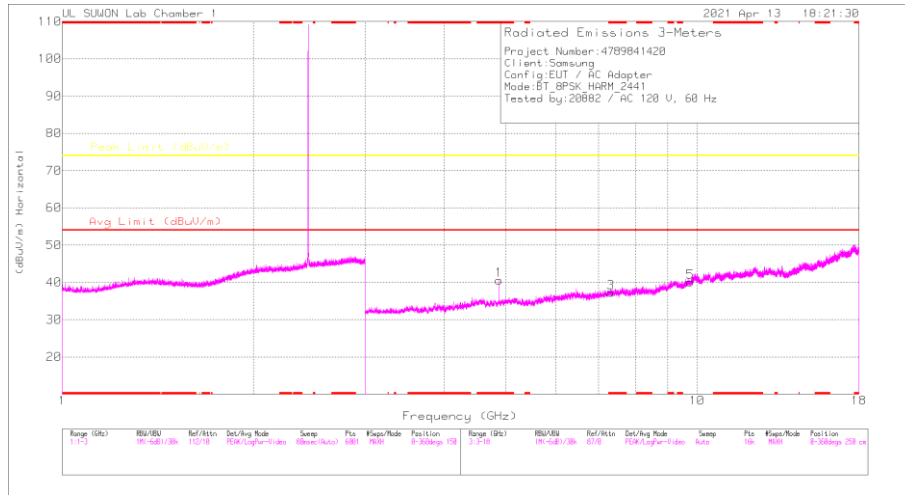
VERTICAL

RADIATED EMISSIONS

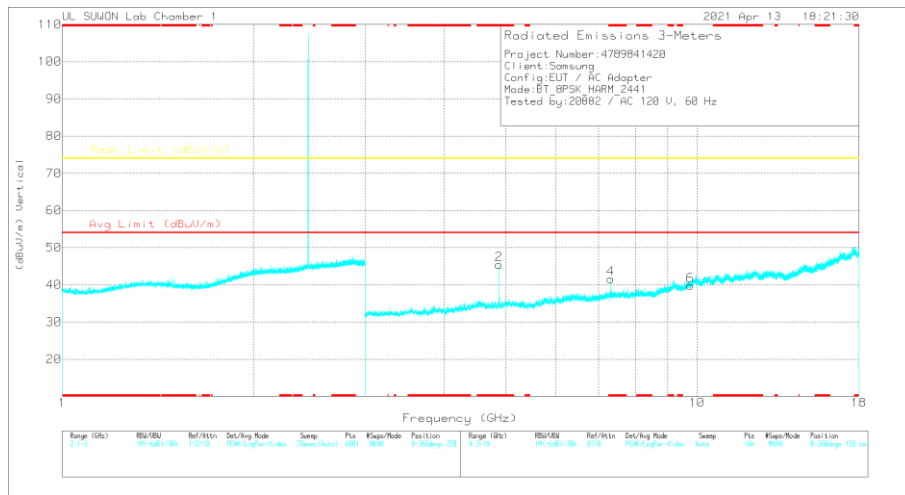
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 3GHz_HP[dB] | Ant Gain [dBi] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|----------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.80432 | 45.22 | PKFH | 34.1 | -31.5 | 0 | 47.82 | - | - | 74 | -26.18 | 69 | 144 | H |
| * 4.80403 | 37.14 | VA1T | 34.1 | -31.5 | 0 | 39.74 | 54 | -14.26 | - | - | 69 | 144 | H |
| * 4.80414 | 47.44 | PKFH | 34.1 | -31.5 | 0 | 50.04 | - | - | 74 | -23.96 | 38 | 145 | V |
| * 4.80405 | 39.58 | VA1T | 34.1 | -31.5 | 0 | 42.18 | 54 | -11.82 | - | - | 38 | 145 | V |
| 7.20387 | 36.47 | PKFH | 35.9 | -27.7 | 0 | 44.67 | - | - | 74 | -29.33 | 0 | 100 | H |
| 7.20164 | 35.5 | PKFH | 35.9 | -27.6 | 0 | 43.8 | - | - | 74 | -30.2 | 0 | 100 | V |
| 9.60935 | 33.87 | PKFH | 37.1 | -23 | 0 | 47.97 | - | - | 74 | -26.03 | 0 | 100 | H |
| 9.61189 | 33.43 | PKFH | 37.1 | -23.1 | 0 | 47.43 | - | - | 74 | -26.57 | 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
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

39 CHANNEL RESULTS



HORIZONTAL



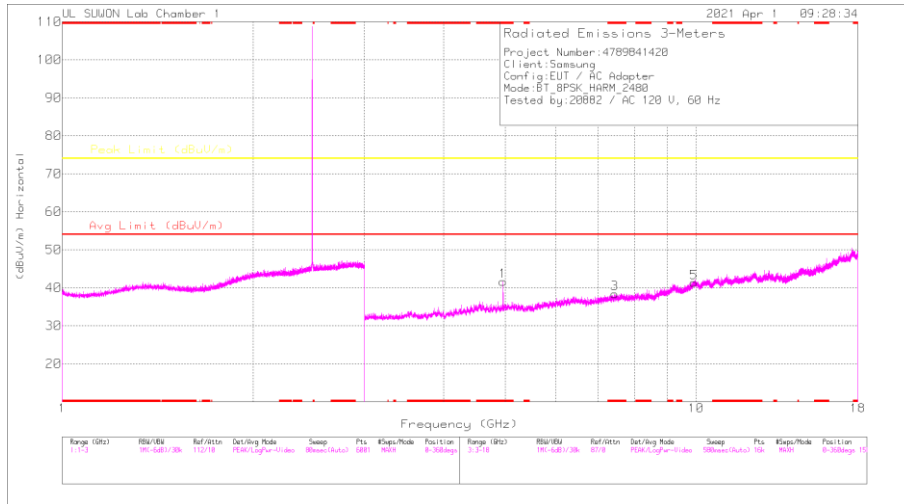
VERTICAL

RADIATED EMISSIONS

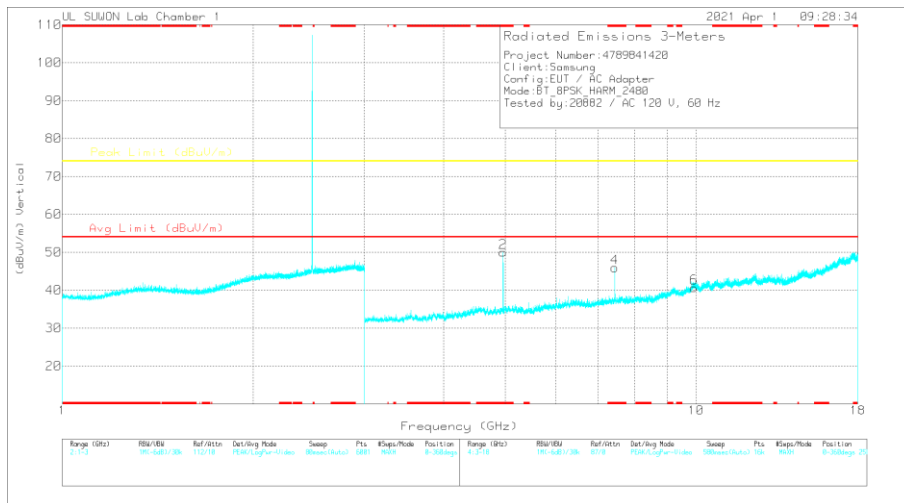
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 3GHz_HP[dB] | Ant Gain [dBi] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|----------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.88205 | 45.57 | PKFH | 34.1 | -31.3 | 0 | 48.37 | - | - | 74 | -25.63 | 58 | 142 | H |
| * 4.88211 | 36.86 | VA1T | 34.1 | -31.3 | 0 | 39.66 | 54 | -14.34 | - | - | 58 | 142 | H |
| * 4.88242 | 46.18 | PKFH | 34.1 | -31.4 | 0 | 48.88 | - | - | 74 | -25.12 | 18 | 125 | V |
| * 4.8821 | 38.25 | VA1T | 34.1 | -31.3 | 0 | 41.05 | 54 | -12.95 | - | - | 18 | 125 | V |
| * 7.32311 | 37.5 | PKFH | 35.8 | -27.3 | 0 | 46 | - | - | 74 | -28 | 61 | 134 | H |
| * 7.32326 | 27.42 | VA1T | 35.8 | -27.3 | 0 | 35.92 | 54 | -18.08 | - | - | 61 | 134 | H |
| * 7.3228 | 41.82 | PKFH | 35.8 | -27.3 | 0 | 50.32 | - | - | 74 | -23.68 | 165 | 232 | V |
| * 7.32309 | 31.27 | VA1T | 35.8 | -27.3 | 0 | 39.77 | 54 | -14.23 | - | - | 165 | 232 | V |
| 9.76563 | 34.01 | PKFH | 37.4 | -23.7 | 0 | 47.71 | - | - | 74 | -26.29 | 0 | 100 | H |
| 9.76512 | 33.37 | PKFH | 37.4 | -23.7 | 0 | 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
 VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration

78 CHANNEL RESULTS



HORIZONTAL



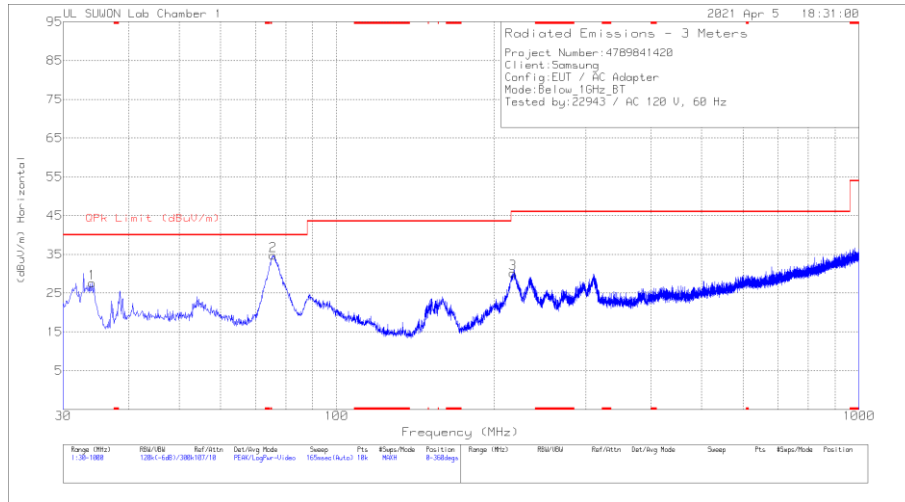
VERTICAL

RADIATED EMISSIONS

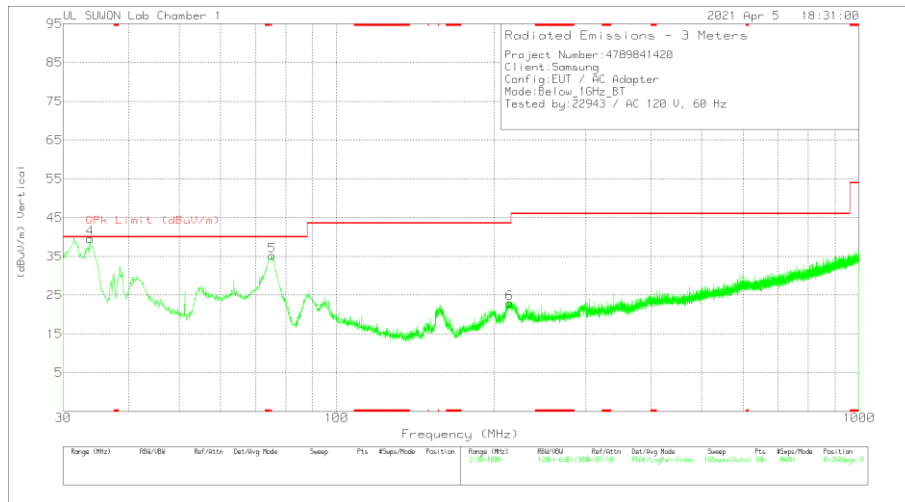
| Frequency (GHz) | Meter Reading (dBuV) | Det | 3117_0016871 7 | 3GHz_HP[dB] | Ant Gain [dBi] | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|------|----------------|-------------|----------------|----------------------------|--------------------|-------------|---------------------|-------------|----------------|-------------|----------|
| * 4.95992 | 45.58 | PKFH | 34.1 | -31.4 | 0 | 48.28 | - | - | 74 | -25.72 | 202 | 148 | H |
| * 4.95994 | 38.22 | VA1T | 34.1 | -31.4 | 0 | 40.92 | 54 | -13.08 | - | - | 202 | 148 | H |
| * 4.95973 | 50.05 | PKFH | 34.1 | -31.4 | 0 | 52.75 | - | - | 74 | -21.25 | 154 | 145 | V |
| * 4.95996 | 43.67 | VA1T | 34.1 | -31.4 | 0 | 46.37 | 54 | -7.63 | - | - | 154 | 145 | V |
| * 7.43949 | 41.85 | PKFH | 35.8 | -26.8 | 0 | 50.85 | - | - | 74 | -23.15 | 192 | 319 | H |
| * 7.43996 | 31.22 | VA1T | 35.8 | -26.8 | 0 | 40.22 | 54 | -13.78 | - | - | 192 | 319 | H |
| * 7.43993 | 46.32 | PKFH | 35.8 | -26.8 | 0 | 55.32 | - | - | 74 | -18.68 | 89 | 229 | V |
| * 7.44009 | 36.28 | VA1T | 35.8 | -26.8 | 0 | 45.28 | 54 | -8.72 | - | - | 89 | 229 | V |
| 9.91995 | 32.37 | PKFH | 37.7 | -21.6 | 0 | 48.47 | - | - | 74 | -25.53 | 0 | 100 | H |
| 9.91828 | 32.51 | PKFH | 37.7 | -21.6 | 0 | 48.61 | - | - | 74 | -25.39 | 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

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



HORIZONTAL



VERTICAL

Below 1GHz Data Trace Markers

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|--------|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 1 | 34.074 | 42.34 | Pk | 16.2 | -30.9 | 27.64 | 40 | -12.36 | 0-360 | 300 | H |
| 2 | 75.59 | 51.55 | Pk | 13.2 | -30 | 34.75 | 40 | -5.25 | 0-360 | 200 | H |
| 3 | 217.598 | 41.5 | Pk | 17 | -28.3 | 30.2 | 46.02 | -15.82 | 0-360 | 200 | H |
| 4 | 33.783 | 54.26 | Pk | 16.1 | -30.8 | 39.56 | 40 | -.44 | 0-360 | 100 | V |
| 5 | 75.299 | 51.79 | Pk | 13.3 | -29.9 | 35.19 | 40 | -4.81 | 0-360 | 100 | V |
| 6 | 214.397 | 34.46 | Pk | 16.8 | -28.3 | 22.96 | 43.52 | -20.56 | 0-360 | 100 | V |

Pk - Peak detector

Radiated Emissions

| Frequency (MHz) | Meter Reading (dBuV) | Det | VULB9163_750 | Below_1G[dB] | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|-----------------|----------------------|-----|--------------|--------------|----------------------------|--------------------|-------------|----------------|-------------|----------|
| 33.783 | 49.16 | Qp | 16.1 | -30.8 | 34.46 | 40 | -5.54 | 349 | 100 | V |

Qp - Quasi-Peak detector

11. 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 C63.4.

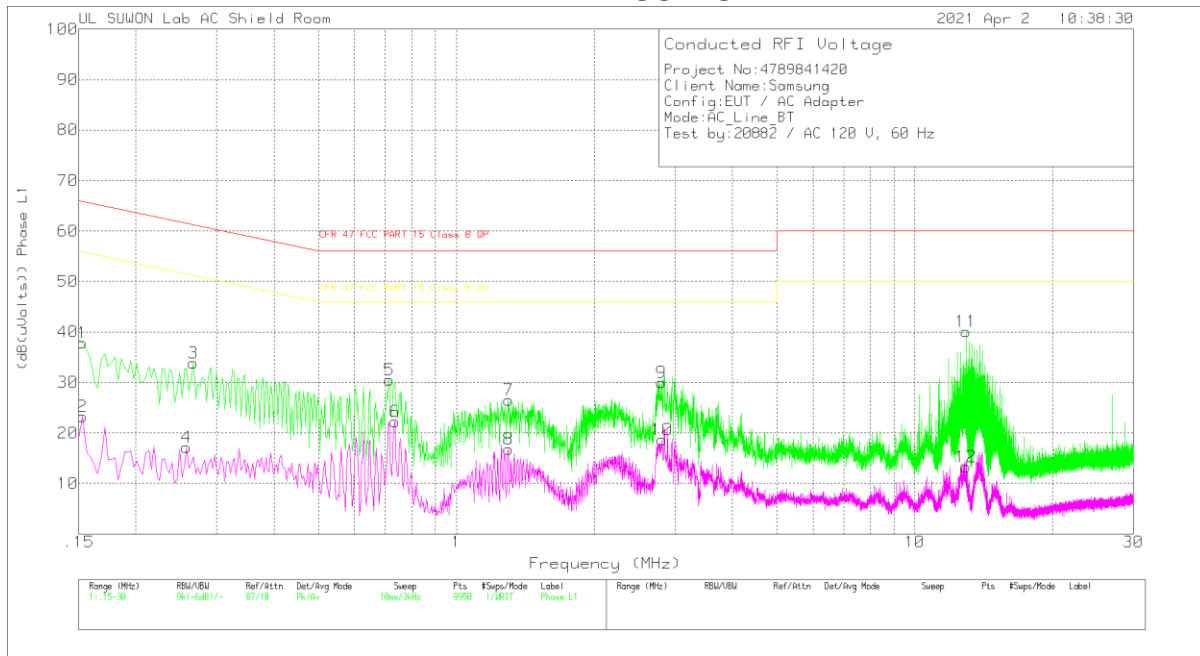
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

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

RESULTS

11.1.1. AC Power Line

LINE 1 RESULTS



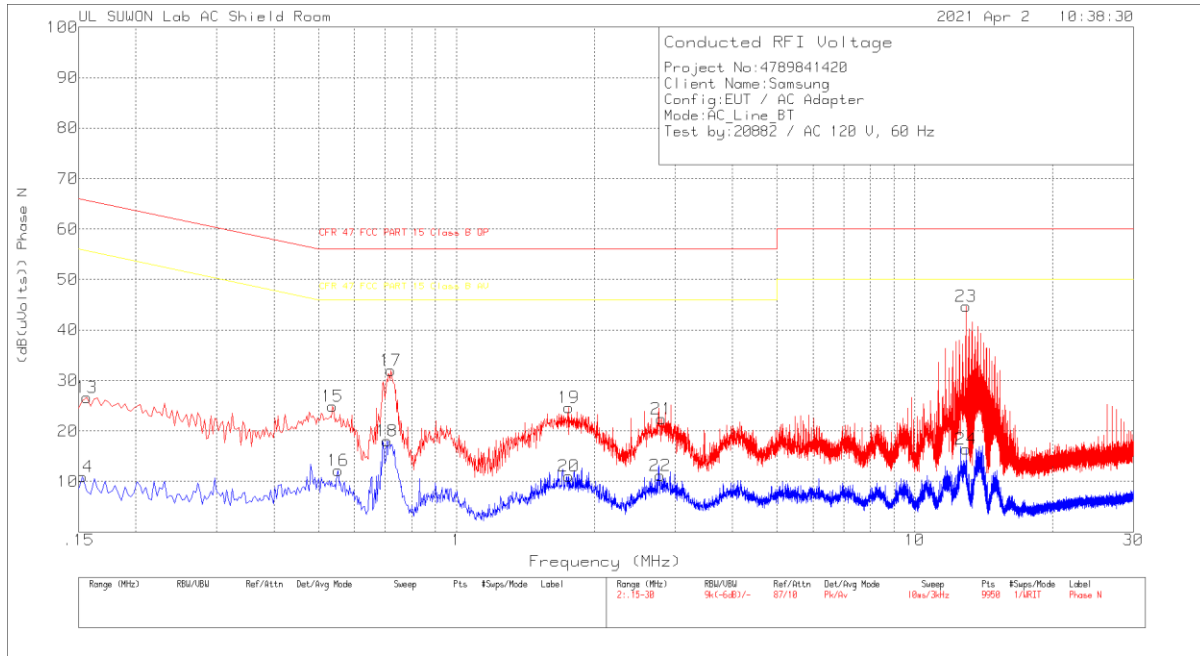
Trace Markers

Range 1: Phase L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_Wit h EX_L1[dB] | CABLELOSS (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 | .153 | 27.96 | Pk | 9.8 | .1 | 37.86 | 65.84 | -27.98 | - | - |
| 2 | .153 | 13.33 | Av | 9.8 | .1 | 23.23 | - | - | 55.84 | -32.61 |
| 3 | .267 | 23.98 | Pk | 9.7 | .2 | 33.88 | 61.21 | -27.33 | - | - |
| 4 | .258 | 7.25 | Av | 9.7 | .2 | 17.15 | - | - | 51.5 | -34.35 |
| 5 | .714 | 20.42 | Pk | 9.9 | .2 | 30.52 | 56 | -25.48 | - | - |
| 6 | .735 | 12.14 | Av | 9.9 | .2 | 22.24 | - | - | 46 | -23.76 |
| 7 | 1.299 | 16.45 | Pk | 9.8 | .3 | 26.55 | 56 | -29.45 | - | - |
| 8 | 1.299 | 6.67 | Av | 9.8 | .3 | 16.77 | - | - | 46 | -29.23 |
| 9 | 2.802 | 20.03 | Pk | 9.7 | .3 | 30.03 | 56 | -25.97 | - | - |
| 10 | 2.808 | 8.69 | Av | 9.7 | .3 | 18.69 | - | - | 46 | -27.31 |
| 11 | 12.924 | 29.71 | Pk | 10 | .4 | 40.11 | 60 | -19.89 | - | - |
| 12 | 12.924 | 2.94 | Av | 10 | .4 | 13.34 | - | - | 50 | -36.66 |

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Trace Markers

Range 2: Phase N .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | 101836_With EX_N[dB] | CABLELOSS (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 | .156 | 16.66 | Pk | 9.9 | .1 | 26.66 | 65.67 | -39.01 | - | - |
| 14 | .153 | 1.08 | Av | 9.8 | .1 | 10.98 | - | - | 55.84 | -44.86 |
| 15 | .537 | 14.8 | Pk | 9.9 | .2 | 24.9 | 56 | -31.1 | - | - |
| 16 | .552 | 2.09 | Av | 9.9 | .2 | 12.19 | - | - | 46 | -33.81 |
| 17 | .72 | 21.89 | Pk | 9.9 | .2 | 31.99 | 56 | -24.01 | - | - |
| 18 | .705 | 7.9 | Av | 9.9 | .2 | 18 | - | - | 46 | -28 |
| 19 | 1.761 | 14.57 | Pk | 9.8 | .3 | 24.67 | 56 | -31.33 | - | - |
| 20 | 1.761 | .9 | Av | 9.8 | .3 | 11 | - | - | 46 | -35 |
| 21 | 2.799 | 12.33 | Pk | 9.8 | .3 | 22.43 | 56 | -33.57 | - | - |
| 22 | 2.784 | 1.03 | Av | 9.8 | .3 | 11.13 | - | - | 46 | -34.87 |
| 23 | 12.936 | 34.31 | Pk | 10 | .4 | 44.71 | 60 | -15.29 | - | - |
| 24 | 12.93 | 5.96 | Av | 10 | .4 | 16.36 | - | - | 50 | -33.64 |

Pk - Peak detector
 Av - Average detection

END OF TEST REPORT