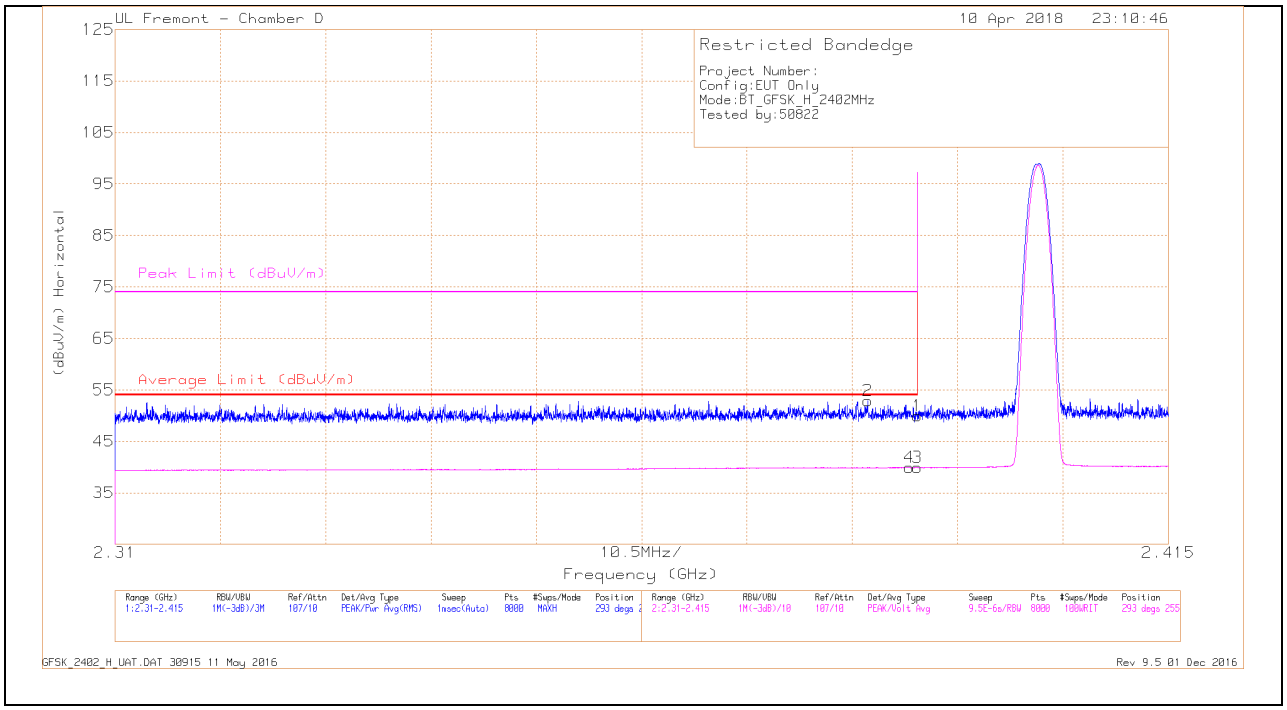
# 9.1.3. LOW POWER BASIC DATA RATE GFSK MODULATION

**ANTENNA 4**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.385 | 41.46 | Pk | 31.9 | -20.5 | 52.86 | - | - | 74 | -21.14 | 293 | 255 | H |
| 4 | * 2.389 | 28.55 | VA1T | 31.9 | -20.5 | 39.95 | 54 | -14.05 | - | - | 293 | 255 | H |
| 1 | * 2.39 | 38.56 | Pk | 31.9 | -20.5 | 49.96 | - | - | 74 | -24.04 | 293 | 255 | H |
| 3 | * 2.39 | 28.51 | VA1T | 31.9 | -20.5 | 39.91 | 54 | -14.09 | - | - | 293 | 255 | 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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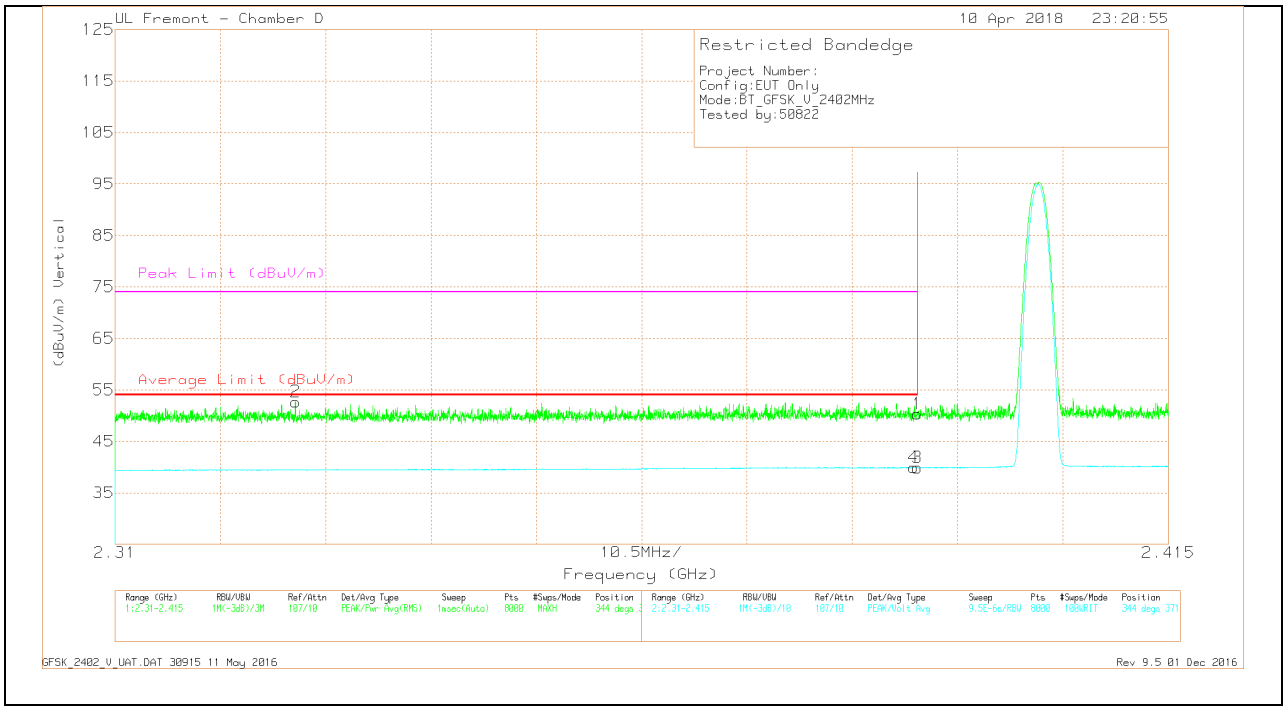
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.328 | 41.7 | Pk | 31.6 | -20.6 | 52.7 | - | - | 74 | -21.3 | 344 | 371 | V |
| 1 | * 2.39 | 38.94 | Pk | 31.9 | -20.5 | 50.34 | - | - | 74 | -23.66 | 344 | 371 | V |
| 3 | * 2.39 | 28.49 | VA1T | 31.9 | -20.5 | 39.89 | 54 | -14.11 | - | - | 344 | 371 | V |
| 4 | * 2.39 | 28.54 | VA1T | 31.9 | -20.5 | 39.94 | 54 | -14.06 | - | - | 344 | 371 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
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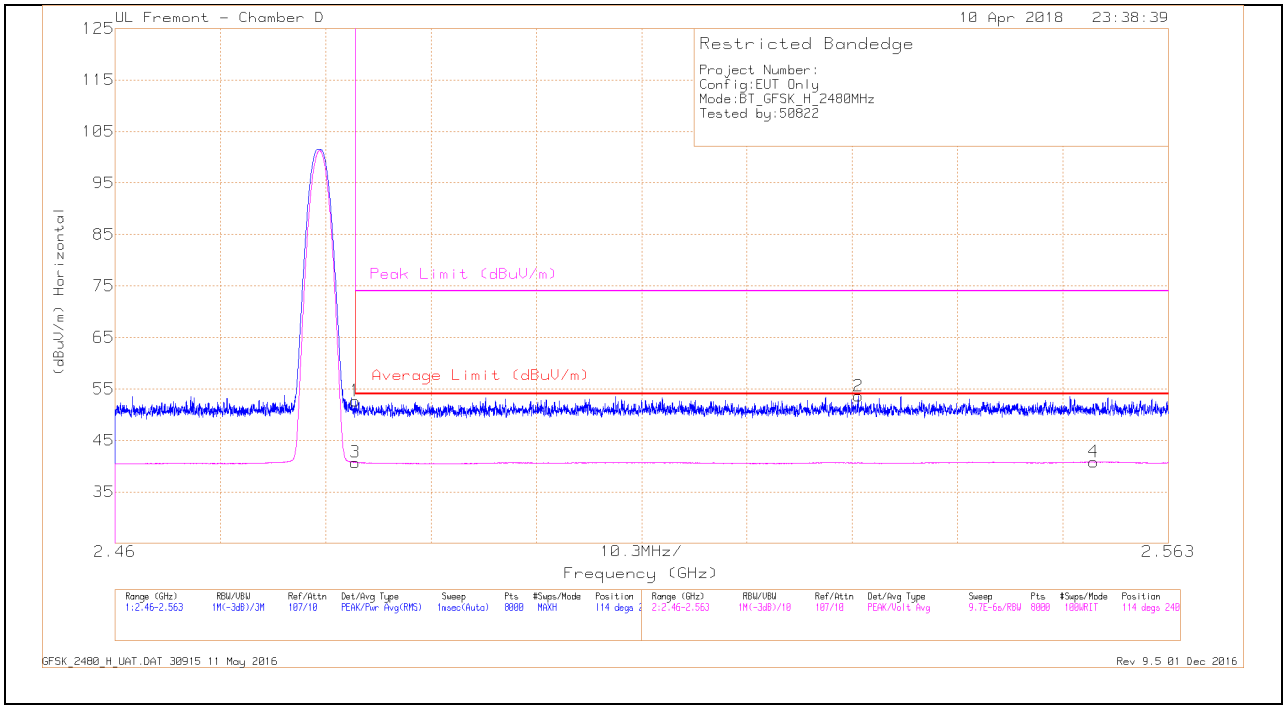
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 40.67 | Pk | 32.4 | -20.4 | 52.67 | - | - | 74 | -21.33 | 114 | 240 | H |
| 3 | * 2.484 | 28.74 | VA1T | 32.4 | -20.4 | 40.74 | 54 | -13.26 | - | - | 114 | 240 | H |
| 2 | 2.533 | 41.61 | Pk | 32.4 | -20.4 | 53.61 | - | - | 74 | -20.39 | 114 | 240 | H |
| 4 | 2.556 | 28.64 | VA1T | 32.5 | -20.3 | 40.84 | 54 | -13.16 | - | - | 114 | 240 | 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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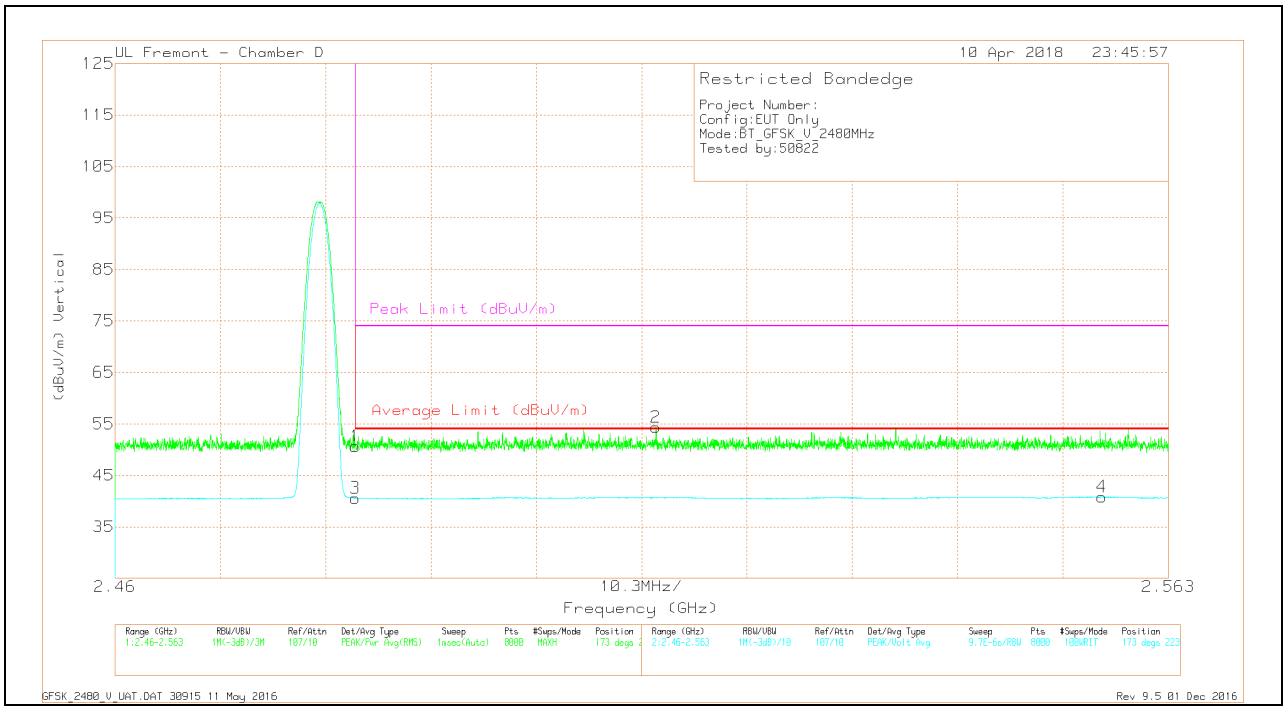
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 38.65 | Pk | 32.4 | -20.4 | 50.65 | - | - | 74 | -23.35 | 173 | 223 | V |
| 3 | * 2.484 | 28.6 | VA1T | 32.4 | -20.4 | 40.6 | 54 | -13.4 | - | - | 173 | 223 | V |
| 2 | 2.513 | 42.24 | Pk | 32.4 | -20.3 | 54.34 | - | - | 74 | -19.66 | 173 | 223 | V |
| 4 | 2.557 | 28.52 | VA1T | 32.5 | -20.2 | 40.82 | 54 | -13.18 | - | - | 173 | 223 | 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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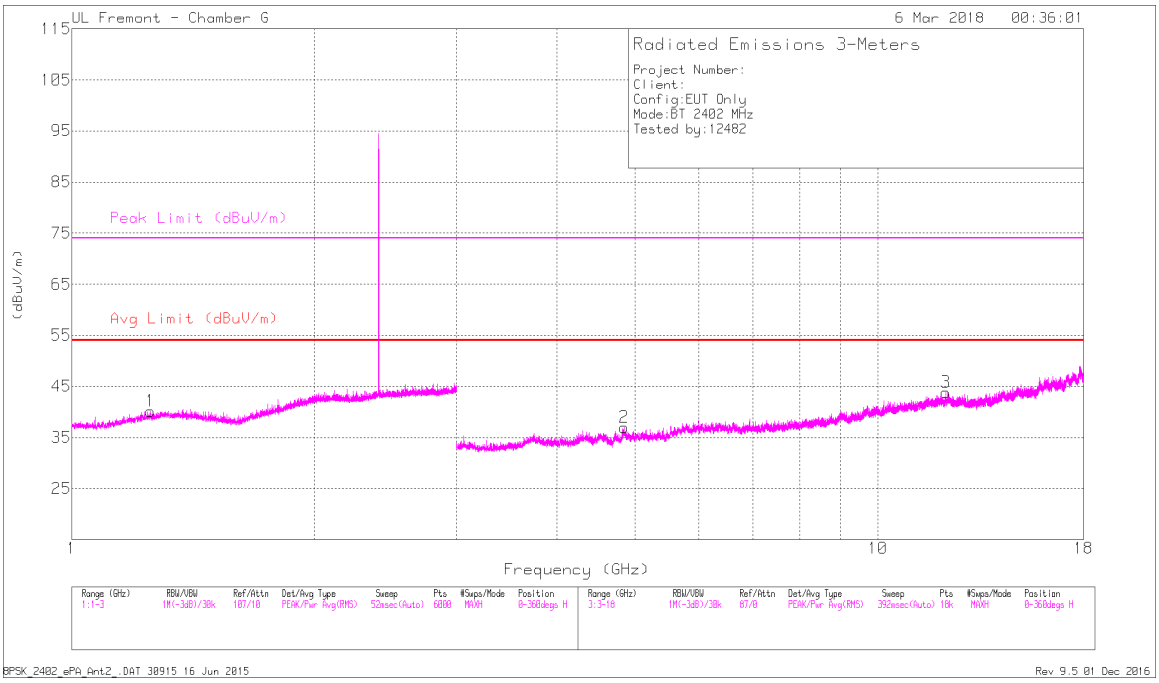
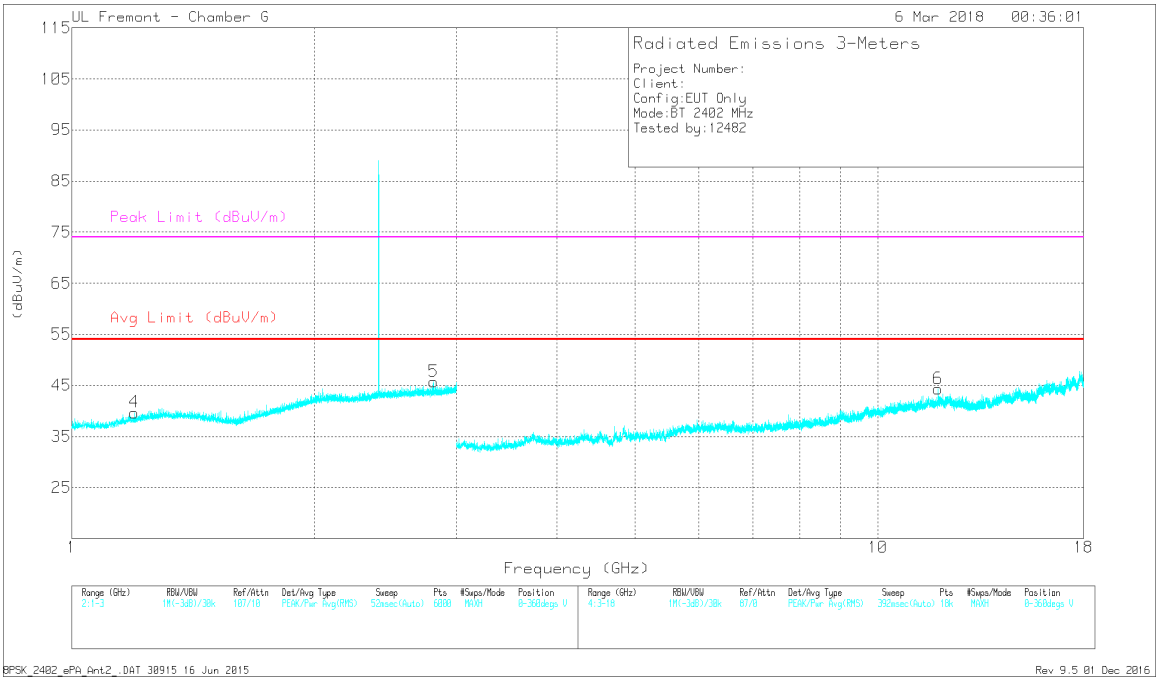
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.253 | 42.13 | PKFH | 28.5 | -25.6 | 45.03 | - | - | 74 | -28.97 | 0 | 171 | H |
| | * 1.249 | 30.66 | VA1T | 28.5 | -25.5 | 33.66 | 54 | -20.34 | - | - | 0 | 171 | H |
| 4 | * 1.196 | 42.37 | PKFH | 28.1 | -25.6 | 44.87 | - | - | 74 | -29.13 | 93 | 318 | V |
| | * 1.194 | 30.68 | VA1T | 28 | -25.6 | 33.08 | 54 | -20.92 | - | - | 93 | 318 | V |
| 5 | * 2.812 | 41.13 | PKFH | 32.5 | -24.1 | 49.53 | - | - | 74 | -24.47 | 276 | 288 | V |
| | * 2.811 | 29.85 | VA1T | 32.5 | -24.1 | 38.25 | 54 | -15.75 | - | - | 276 | 288 | V |
| 2 | * 4.849 | 41.46 | PKFH | 34.1 | -32.2 | 43.36 | - | - | 74 | -30.64 | 133 | 249 | H |
| | * 4.848 | 28.63 | VA1T | 34.1 | -32.2 | 30.53 | 54 | -23.47 | - | - | 133 | 249 | H |
| 3 | * 12.141 | 35.83 | PKFH | 38.7 | -25.6 | 48.93 | - | - | 74 | -25.07 | 184 | 180 | H |
| | * 12.14 | 24.01 | VA1T | 38.7 | -25.6 | 37.11 | 54 | -16.89 | - | - | 184 | 180 | H |
| 6 | * 11.884 | 34.77 | PKFH | 38.6 | -25.3 | 48.07 | - | - | 74 | -25.93 | 0 | 207 | V |
| | * 11.884 | 23.25 | VA1T | 38.6 | -25.3 | 36.55 | 54 | -17.45 | - | - | 0 | 207 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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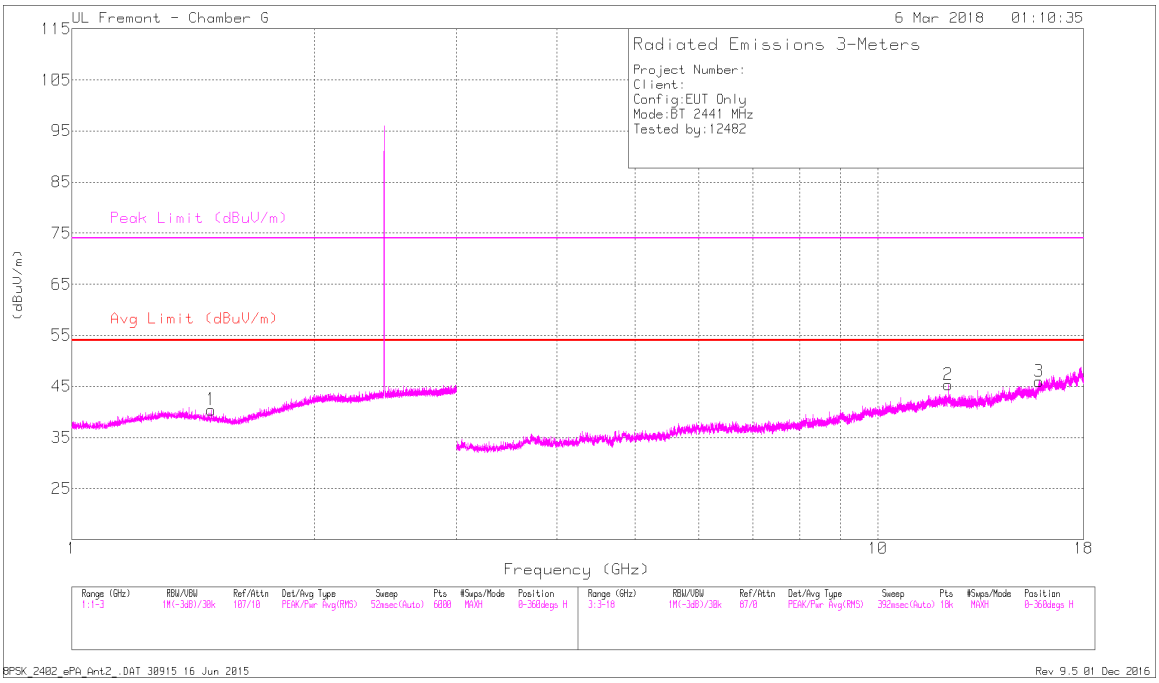
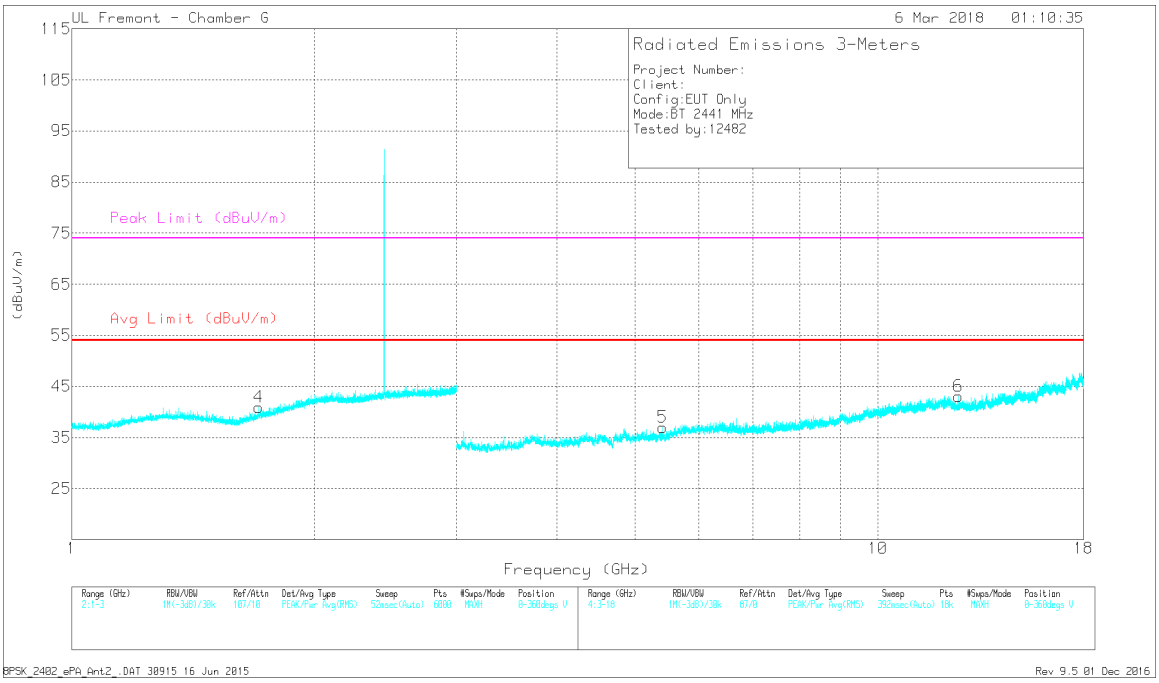
## MID CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.488 | 42.13 | PKFH | 28.1 | -25.1 | 45.13 | - | - | 74 | -28.87 | 15 | 310 | H |
| | * 1.487 | 30.37 | VA1T | 28.1 | -25.1 | 33.37 | 54 | -20.63 | - | - | 15 | 310 | H |
| 4 | * 1.703 | 41.45 | PKFH | 28.7 | -24.9 | 45.25 | - | - | 74 | -28.75 | 21 | 302 | V |
| | * 1.705 | 29.82 | VA1T | 28.7 | -24.9 | 33.62 | 54 | -20.38 | - | - | 21 | 302 | V |
| 2 | * 12.232 | 35.61 | PKFH | 38.7 | -25.1 | 49.21 | - | - | 74 | -24.79 | 257 | 160 | H |
| | * 12.234 | 23.57 | VA1T | 38.7 | -25.1 | 37.17 | 54 | -16.83 | - | - | 257 | 160 | H |
| 3 | * 15.854 | 36.92 | PKFH | 41.7 | -26.4 | 52.22 | - | - | 74 | -21.78 | 4 | 186 | H |
| | * 15.852 | 24.49 | VA1T | 41.7 | -26.4 | 39.79 | 54 | -14.21 | - | - | 4 | 186 | H |
| 5 | * 5.407 | 39.21 | PKFH | 34.6 | -31.3 | 42.51 | - | - | 74 | -31.49 | 270 | 233 | V |
| | * 5.407 | 27.16 | VA1T | 34.6 | -31.3 | 30.46 | 54 | -23.54 | - | - | 270 | 233 | V |
| 6 | * 12.591 | 35.37 | PKFH | 38.8 | -25.5 | 48.67 | - | - | 74 | -25.33 | 291 | 286 | V |
| | * 12.592 | 23.1 | VA1T | 38.8 | -25.5 | 36.4 | 54 | -17.6 | - | - | 291 | 286 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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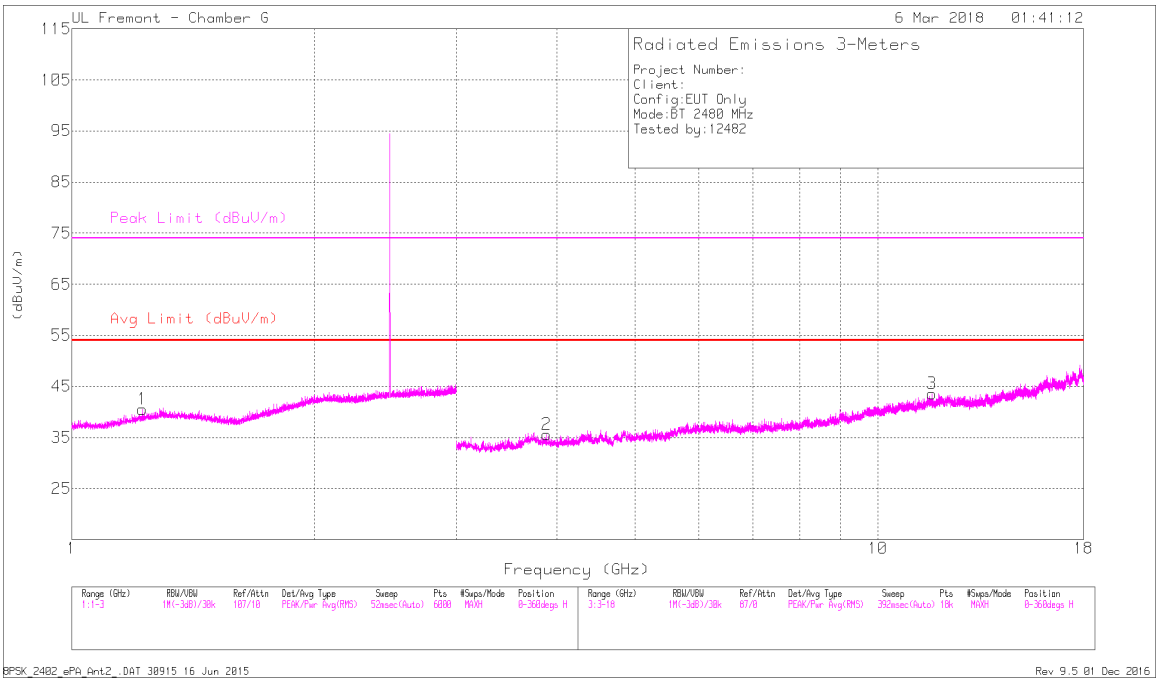
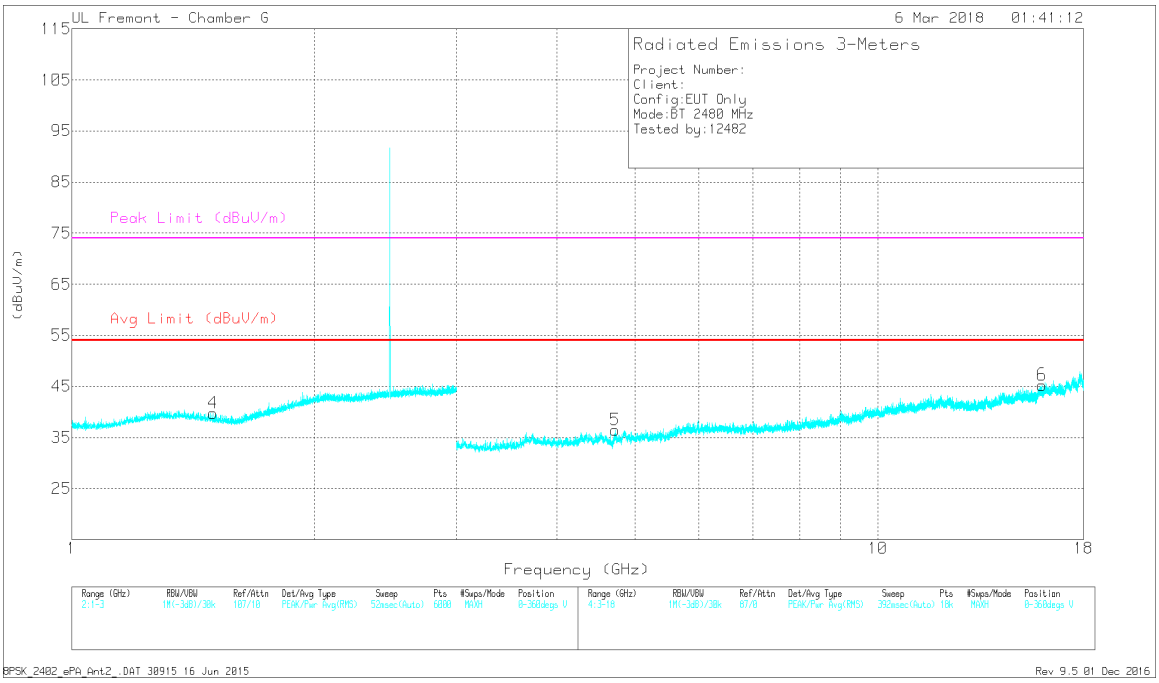
## HIGH CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.224 | 42.35 | PKFH | 28.3 | -25.6 | 45.05 | - | - | 74 | -28.95 | 213 | 282 | H |
| | * 1.224 | 30.6 | VA1T | 28.3 | -25.6 | 33.3 | 54 | -20.7 | - | - | 213 | 282 | H |
| 4 | * 1.496 | 42.55 | PKFH | 28 | -25.1 | 45.45 | - | - | 74 | -28.55 | 360 | 297 | V |
| | * 1.498 | 30.32 | VA1T | 28 | -25.1 | 33.22 | 54 | -20.78 | - | - | 360 | 297 | V |
| 2 | * 3.879 | 40.24 | PKFH | 33.5 | -32.9 | 40.84 | - | - | 74 | -33.16 | 72 | 298 | H |
| | * 3.878 | 28.09 | VA1T | 33.5 | -32.9 | 28.69 | 54 | -25.31 | - | - | 72 | 298 | H |
| 3 | * 11.679 | 35.37 | PKFH | 38.6 | -25.9 | 48.07 | - | - | 74 | -25.93 | 24 | 123 | H |
| | * 11.68 | 23.64 | VA1T | 38.6 | -25.9 | 36.34 | 54 | -17.66 | - | - | 24 | 123 | H |
| 5 | * 4.721 | 40.01 | PKFH | 34 | -32.1 | 41.91 | - | - | 74 | -32.09 | 329 | 301 | V |
| | * 4.719 | 28.08 | VA1T | 34 | -32.1 | 29.98 | 54 | -24.02 | - | - | 329 | 301 | V |
| 6 | * 15.988 | 35.5 | PKFH | 41.6 | -26.3 | 50.8 | - | - | 74 | -23.2 | 11 | 191 | V |
| | * 15.989 | 23.43 | VA1T | 41.6 | -26.3 | 38.73 | 54 | -15.27 | - | - | 11 | 191 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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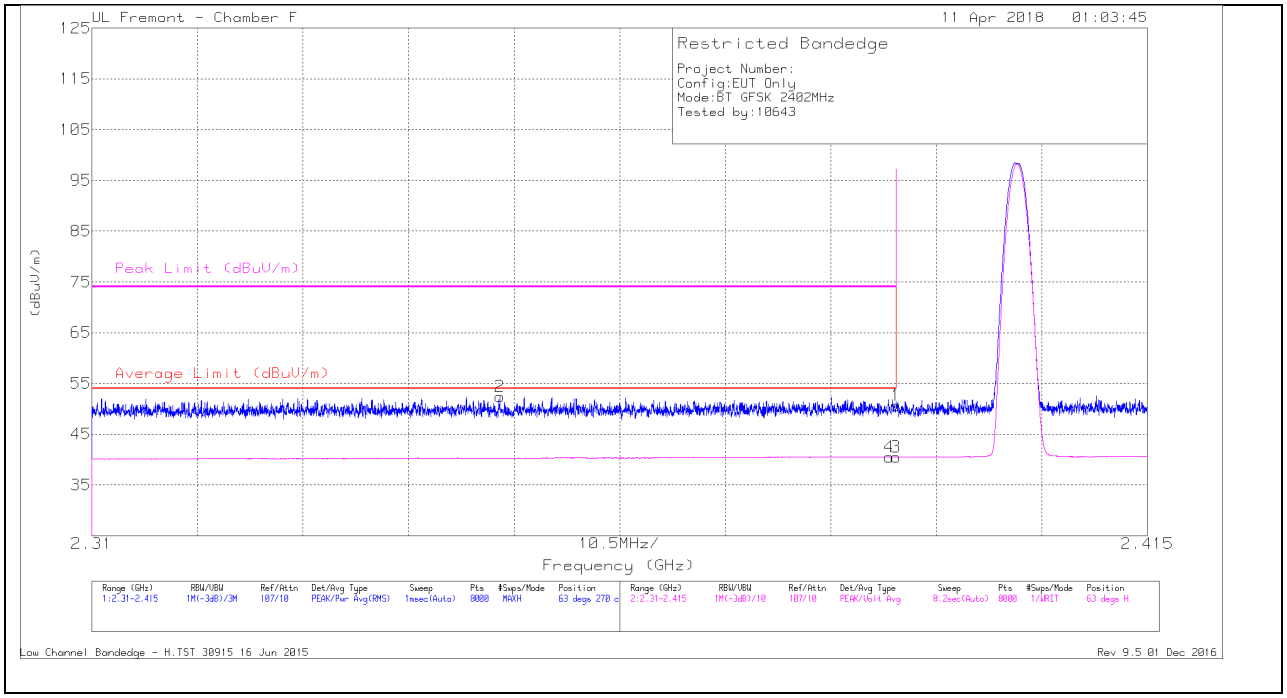
**ANTENNA 3**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (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 | 39.42 | Pk | 31.9 | -20.6 | 50.72 | - | - | 74 | -23.28 | 63 | 270 | H |
| 2 | * 2.351 | 41.43 | Pk | 31.7 | -20.7 | 52.43 | - | - | 74 | -21.57 | 63 | 270 | H |
| 3 | * 2.39 | 29.22 | VA1T | 31.9 | -20.6 | 40.52 | 54 | -13.48 | - | - | 63 | 270 | H |
| 4 | * 2.389 | 29.23 | VA1T | 31.9 | -20.6 | 40.53 | 54 | -13.47 | - | - | 63 | 270 | 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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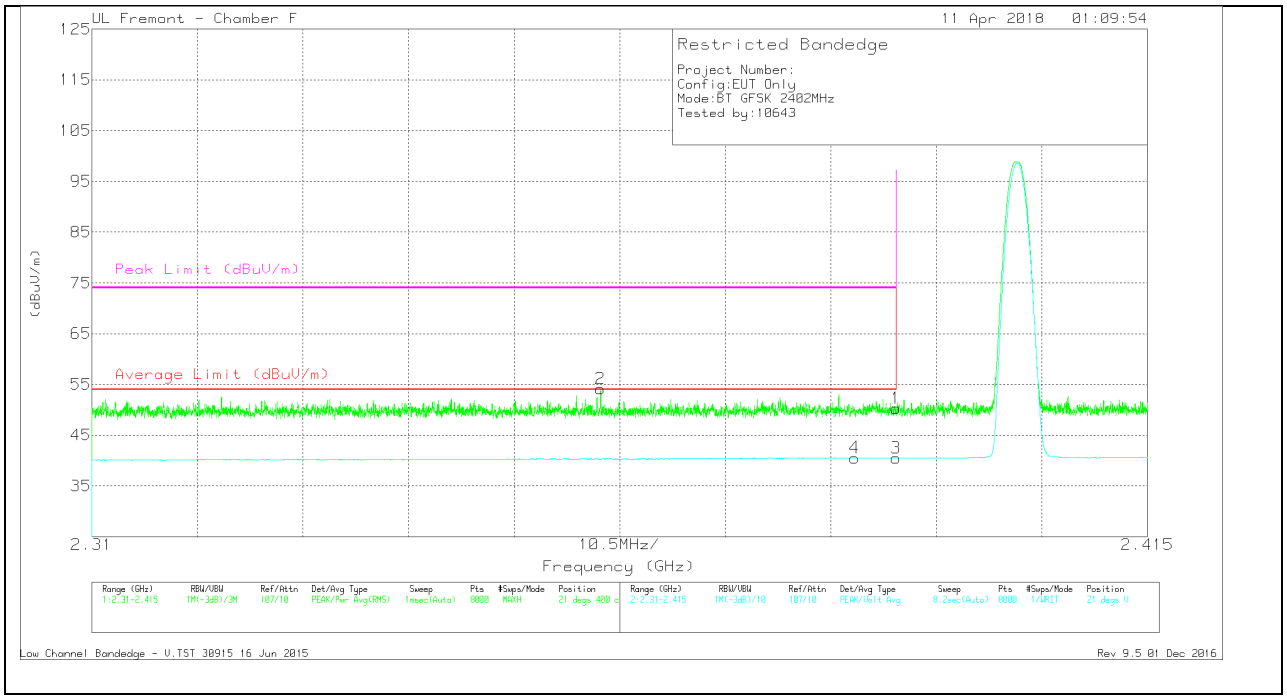
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (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 | 38.98 | Pk | 31.9 | -20.6 | 50.28 | - | - | 74 | -23.72 | 21 | 400 | V |
| 2 | * 2.361 | 43.05 | Pk | 31.8 | -20.7 | 54.15 | - | - | 74 | -19.85 | 21 | 400 | V |
| 3 | * 2.39 | 29.19 | VA1T | 31.9 | -20.6 | 40.49 | 54 | -13.51 | - | - | 21 | 400 | V |
| 4 | * 2.386 | 29.34 | VA1T | 31.8 | -20.6 | 40.54 | 54 | -13.46 | - | - | 21 | 400 | 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



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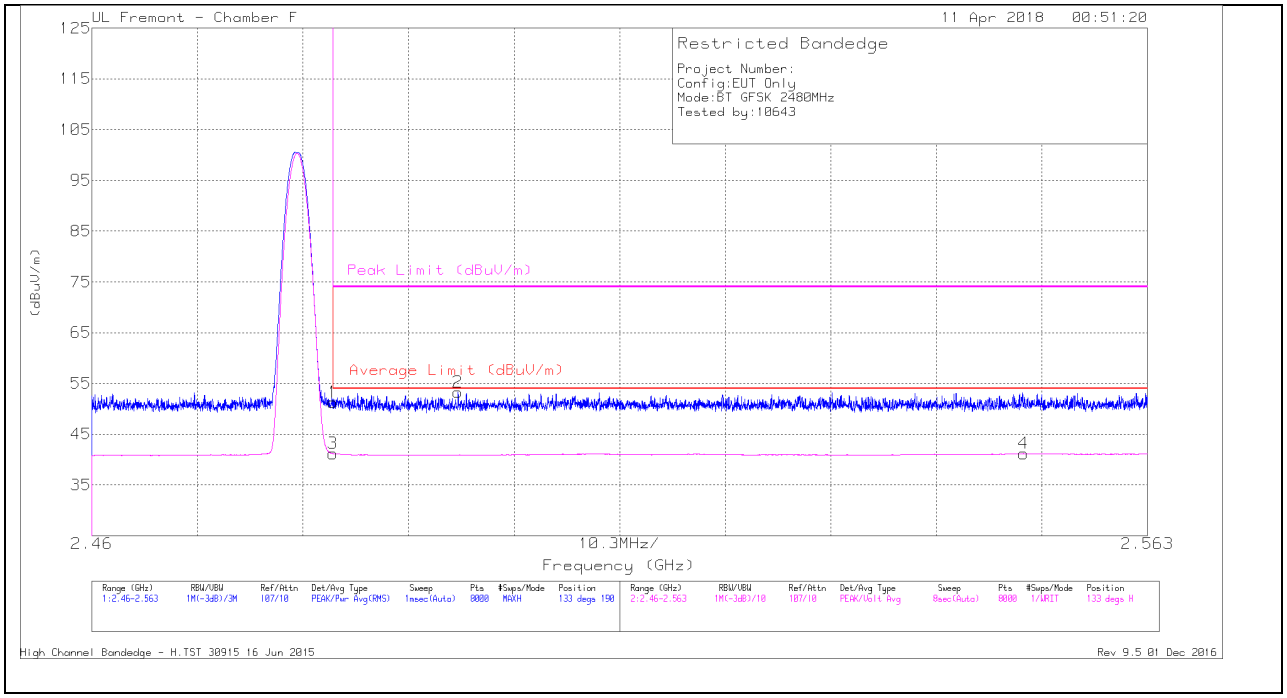
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.93 | Pk | 32.1 | -20.7 | 51.33 | - | - | 74 | -22.67 | 133 | 190 | H |
| 2 | * 2.496 | 41.75 | Pk | 32.2 | -20.7 | 53.25 | - | - | 74 | -20.75 | 133 | 190 | H |
| 3 | * 2.484 | 29.77 | VA1T | 32.1 | -20.7 | 41.17 | 54 | -12.83 | - | - | 133 | 190 | H |
| 4 | 2.551 | 29.47 | VA1T | 32.2 | -20.5 | 41.17 | 54 | -12.83 | - | - | 133 | 190 | 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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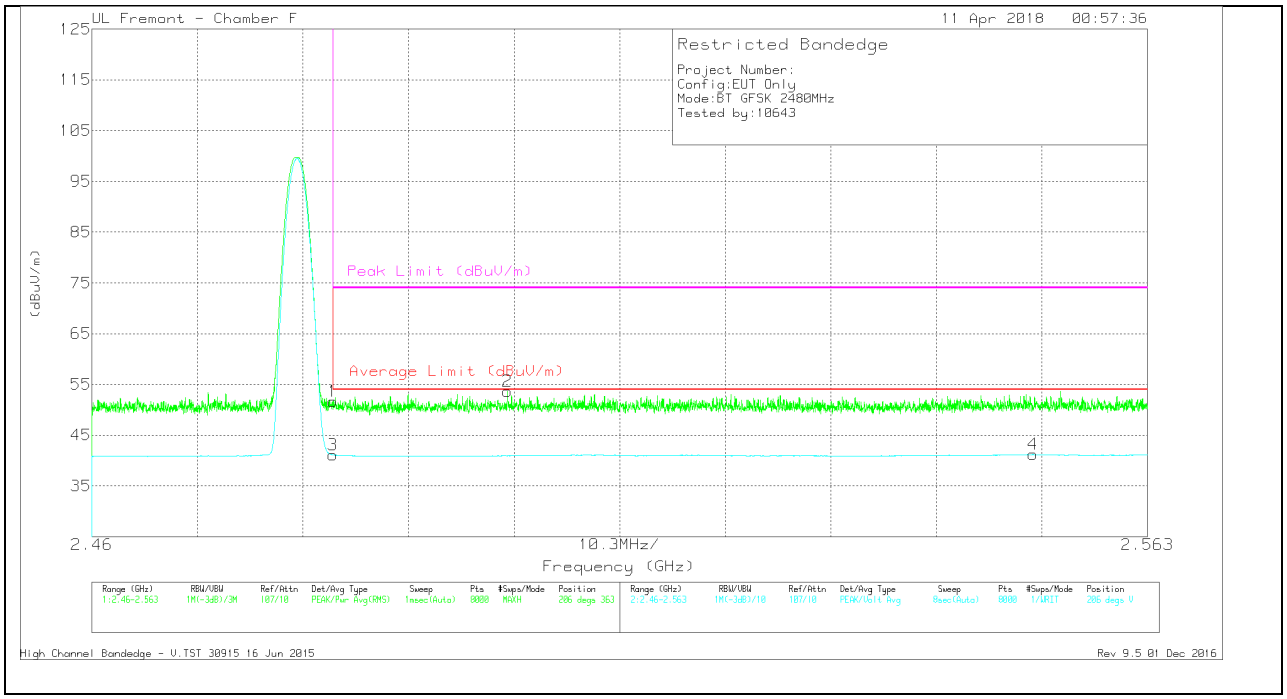
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 40.23 | Pk | 32.1 | -20.7 | 51.63 | - | - | 74 | -22.37 | 206 | 363 | V |
| 2 | 2.501 | 42.15 | Pk | 32.2 | -20.7 | 53.65 | - | - | 74 | -20.35 | 206 | 363 | V |
| 3 | * 2.484 | 29.73 | VA1T | 32.1 | -20.7 | 41.13 | 54 | -12.87 | - | - | 206 | 363 | V |
| 4 | 2.552 | 29.48 | VA1T | 32.2 | -20.5 | 41.18 | 54 | -12.82 | - | - | 206 | 363 | 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



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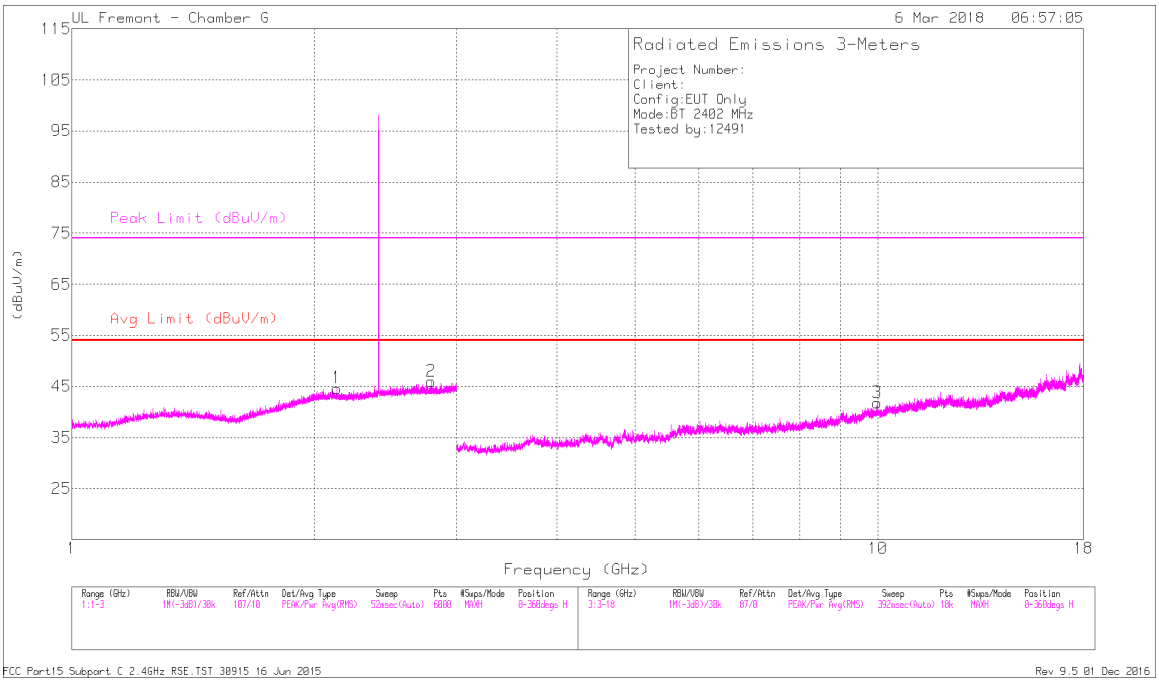
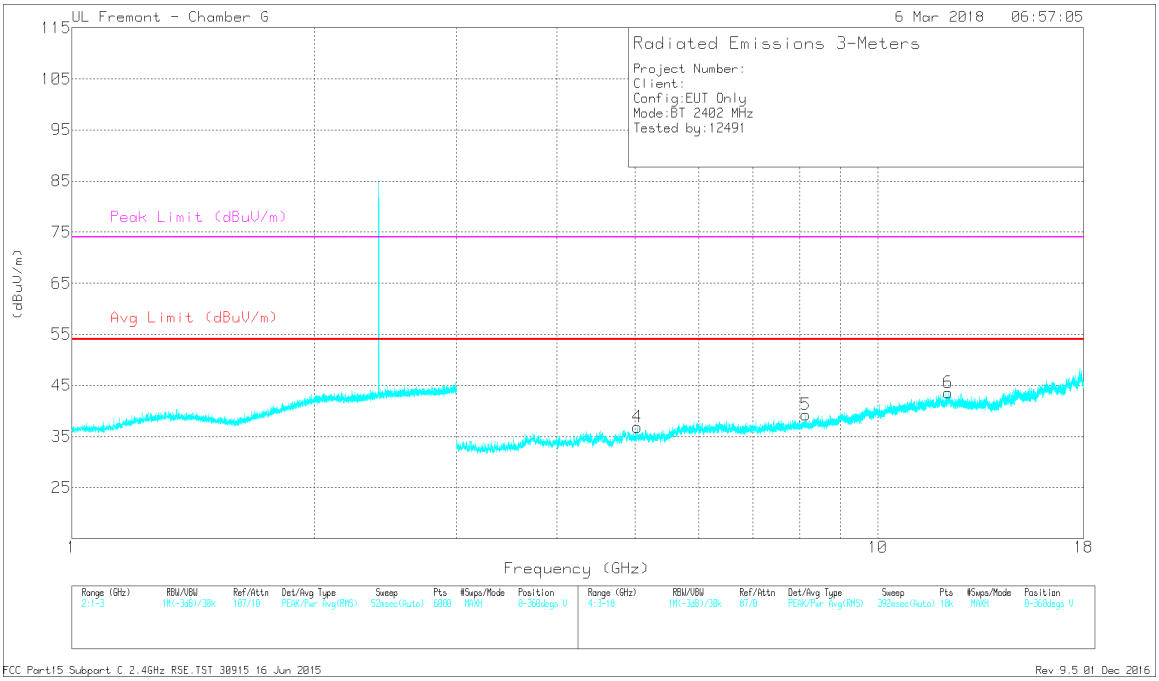
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | * 2.795 | 41.25 | PKFH | 32.4 | -24.1 | 49.55 | - | - | 74 | -24.45 | 12 | 298 | H |
| | * 2.793 | 29.63 | VA1T | 32.4 | -24.1 | 37.93 | 54 | -16.07 | - | - | 12 | 298 | H |
| 4 | * 5.03 | 39.03 | PKFH | 34.2 | -31.8 | 41.43 | - | - | 74 | -32.57 | 233 | 400 | V |
| | * 5.03 | 27.72 | VA1T | 34.2 | -31.8 | 30.12 | 54 | -23.88 | - | - | 233 | 400 | V |
| 5 | * 8.138 | 37.61 | PKFH | 36.1 | -29.1 | 44.61 | - | - | 74 | -29.39 | 184 | 202 | V |
| | * 8.137 | 25.7 | VA1T | 36.1 | -29.1 | 32.7 | 54 | -21.3 | - | - | 184 | 202 | V |
| 6 | * 12.236 | 34.59 | PKFH | 38.7 | -25.1 | 48.19 | - | - | 74 | -25.81 | 358 | 187 | V |
| | * 12.235 | 23.05 | VA1T | 38.7 | -25.1 | 36.65 | 54 | -17.35 | - | - | 358 | 187 | V |
| 1 | 2.133 | 41.37 | PKFH | 31.8 | -24.5 | 48.67 | - | - | - | - | 286 | 303 | H |
| 3 | 9.983 | 36.07 | PKFH | 37.3 | -27.1 | 46.27 | - | - | - | - | 115 | 174 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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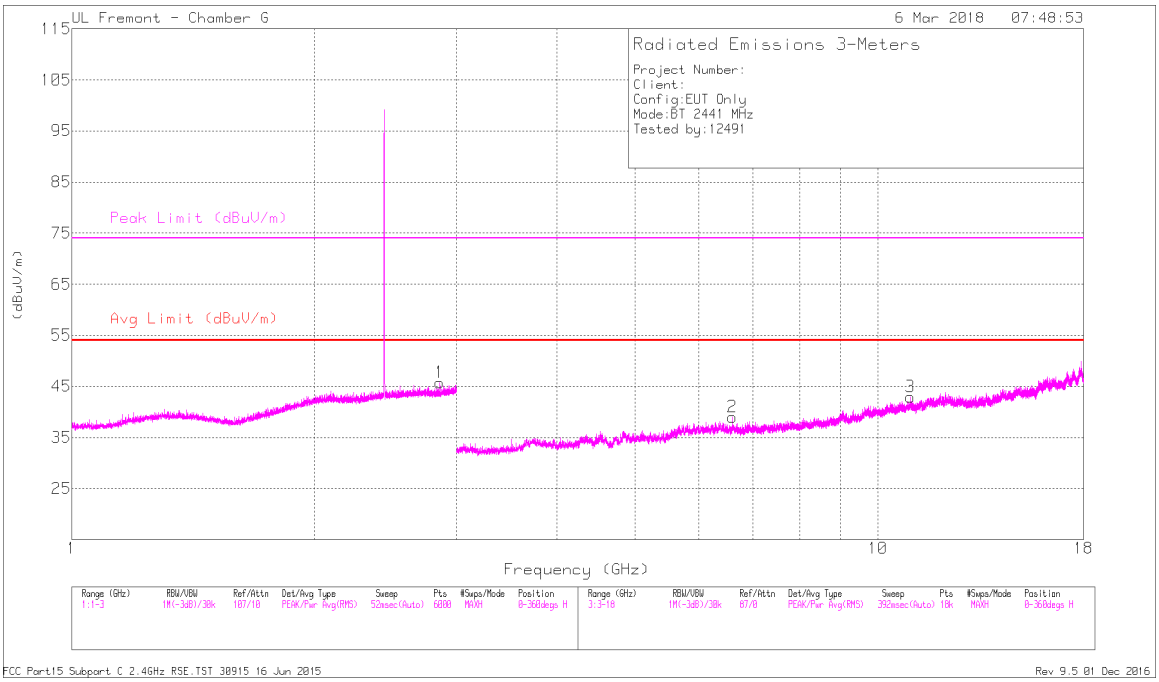
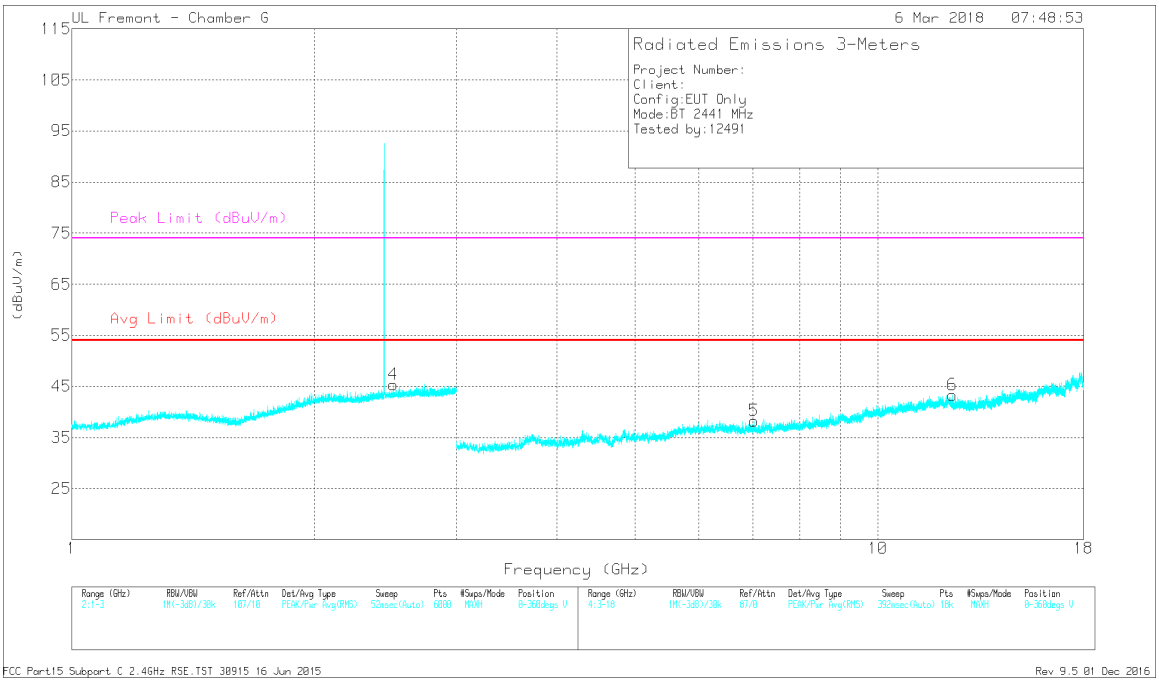
## MID CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.864 | 41.61 | PKFH | 32.5 | -24.1 | 50.01 | - | - | 74 | -23.99 | 134 | 310 | H |
| | * 2.861 | 30.02 | VA1T | 32.5 | -24.1 | 38.42 | 54 | -15.58 | - | - | 134 | 310 | H |
| 3 | * 10.981 | 35.88 | PKFH | 38 | -25.8 | 48.08 | - | - | 74 | -25.92 | 297 | 358 | H |
| | * 10.979 | 23.67 | VA1T | 38 | -25.8 | 35.87 | 54 | -18.13 | - | - | 297 | 358 | H |
| 6 | * 12.384 | 36.15 | PKFH | 38.6 | -26.1 | 48.65 | - | - | 74 | -25.35 | 253 | 219 | V |
| | * 12.384 | 23.84 | VA1T | 38.6 | -26.1 | 36.34 | 54 | -17.66 | - | - | 253 | 219 | V |
| 4 | 2.508 | 41.87 | PKFH | 32.1 | -24.3 | 49.67 | - | - | - | - | 131 | 202 | V |
| 2 | 6.597 | 38.74 | PKFH | 35.5 | -30.6 | 43.64 | - | - | - | - | 128 | 354 | H |
| 5 | 7.024 | 38.13 | PKFH | 35.4 | -30.9 | 42.63 | - | - | - | - | 128 | 277 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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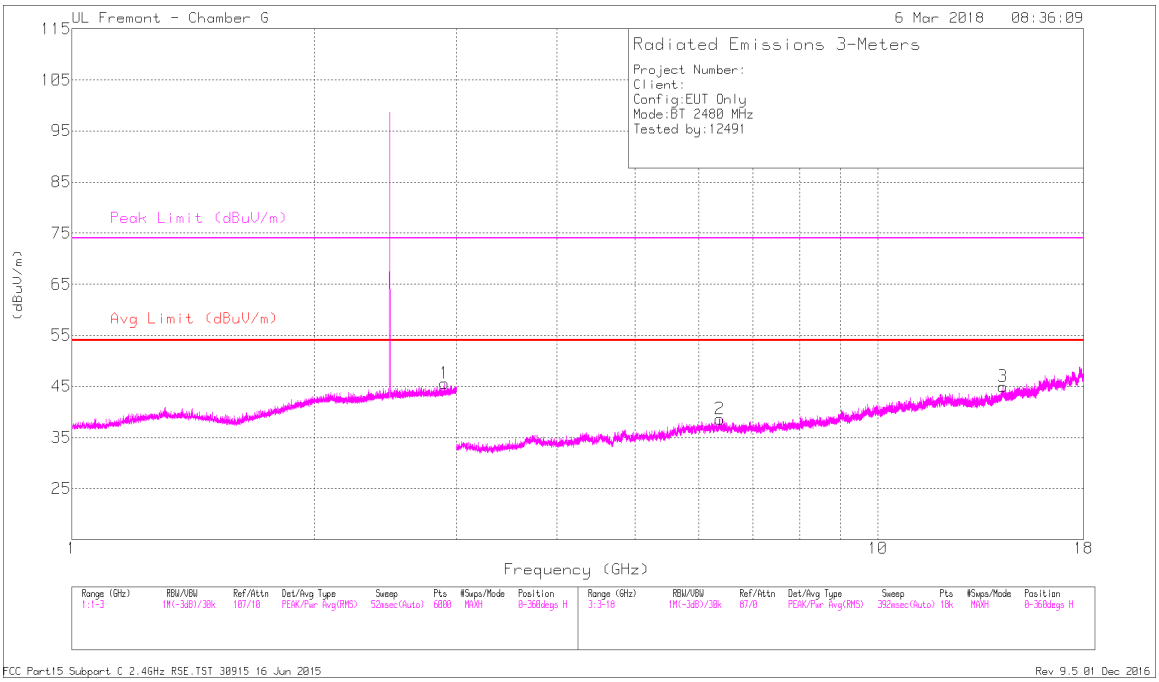
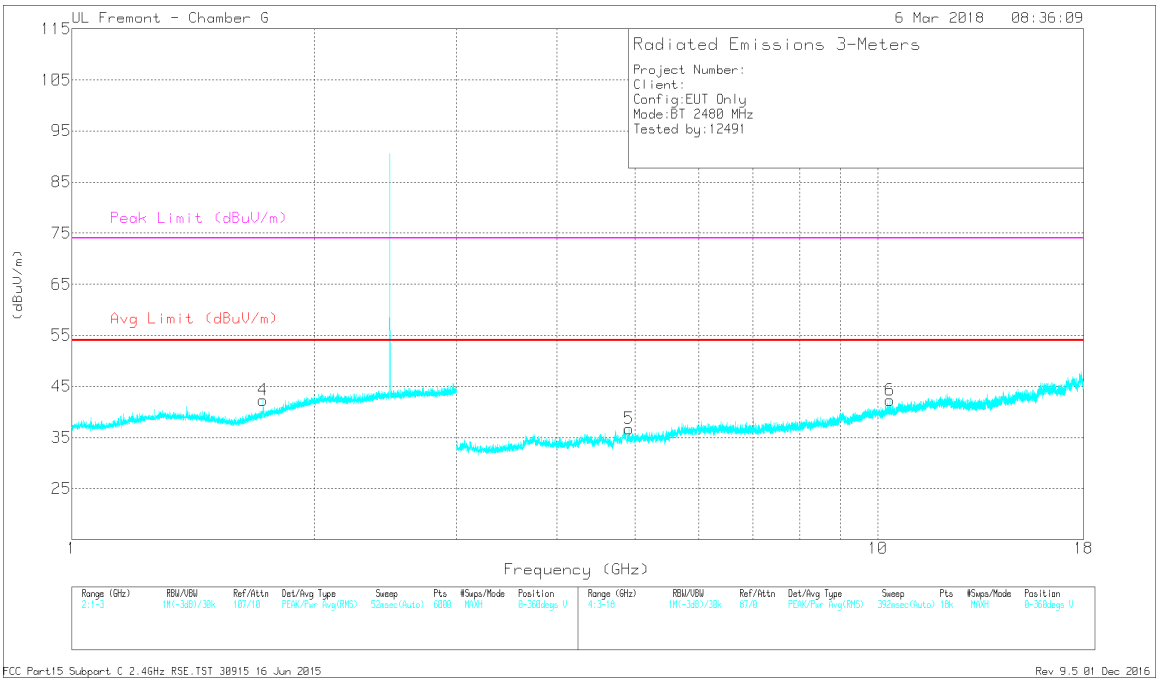
## HIGH CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.9 | 41.64 | PKFH | 32.5 | -24 | 50.14 | - | - | 74 | -23.86 | 343 | 245 | H |
| | * 2.9 | 30.06 | VA1T | 32.5 | -24 | 38.56 | 54 | -15.44 | - | - | 343 | 245 | H |
| 5 | * 4.914 | 38.9 | PKFH | 34.1 | -32.1 | 40.9 | - | - | 74 | -33.1 | 209 | 359 | V |
| | * 4.913 | 27.28 | VA1T | 34.1 | -32.1 | 29.28 | 54 | -24.72 | - | - | 209 | 359 | V |
| 4 | 1.725 | 42.1 | PKFH | 29 | -24.8 | 46.3 | - | - | - | - | 253 | 330 | V |
| 2 | 6.365 | 39.36 | PKFH | 35.6 | -30.8 | 44.16 | - | - | - | - | 310 | 195 | H |
| 6 | 10.353 | 36.37 | PKFH | 37.6 | -26.5 | 47.47 | - | - | - | - | 179 | 224 | V |
| 3 | 14.3 | 36.4 | PKFH | 39.7 | -25.6 | 50.5 | - | - | - | - | 135 | 277 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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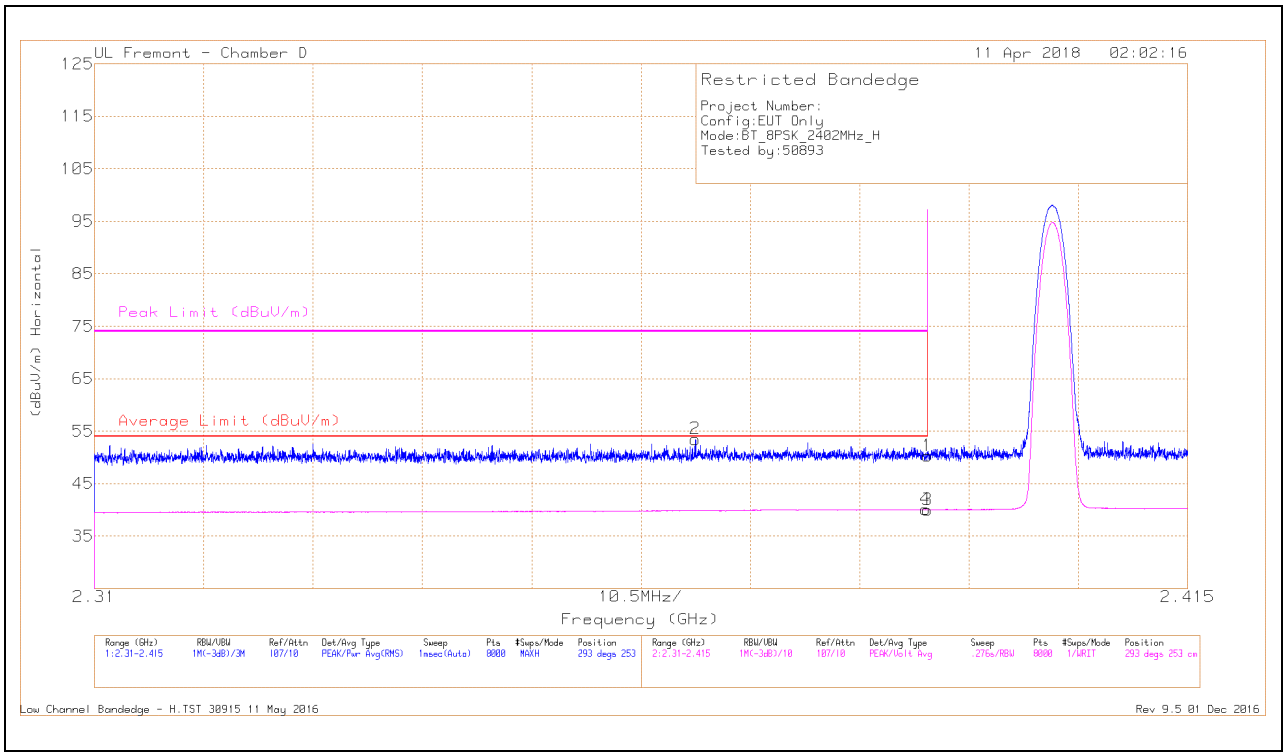
# 9.1.4. LOW POWER ENCHANCED DATA RATE 8PSK MODULATION

**ANTENNA 4**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl/Fltr/Pad (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 | 38.9 | Pk | 31.9 | -20.5 | 50.3 | - | - | 74 | -23.7 | 293 | 253 | H |
| 2 | * 2.368 | 42.36 | Pk | 31.7 | -20.6 | 53.46 | - | - | 74 | -20.54 | 293 | 253 | H |
| 3 | * 2.39 | 28.63 | VA1T | 31.9 | -20.5 | 40.03 | 54 | -13.97 | - | - | 293 | 253 | H |
| 4 | * 2.39 | 28.66 | VA1T | 31.9 | -20.5 | 40.06 | 54 | -13.94 | - | - | 293 | 253 | 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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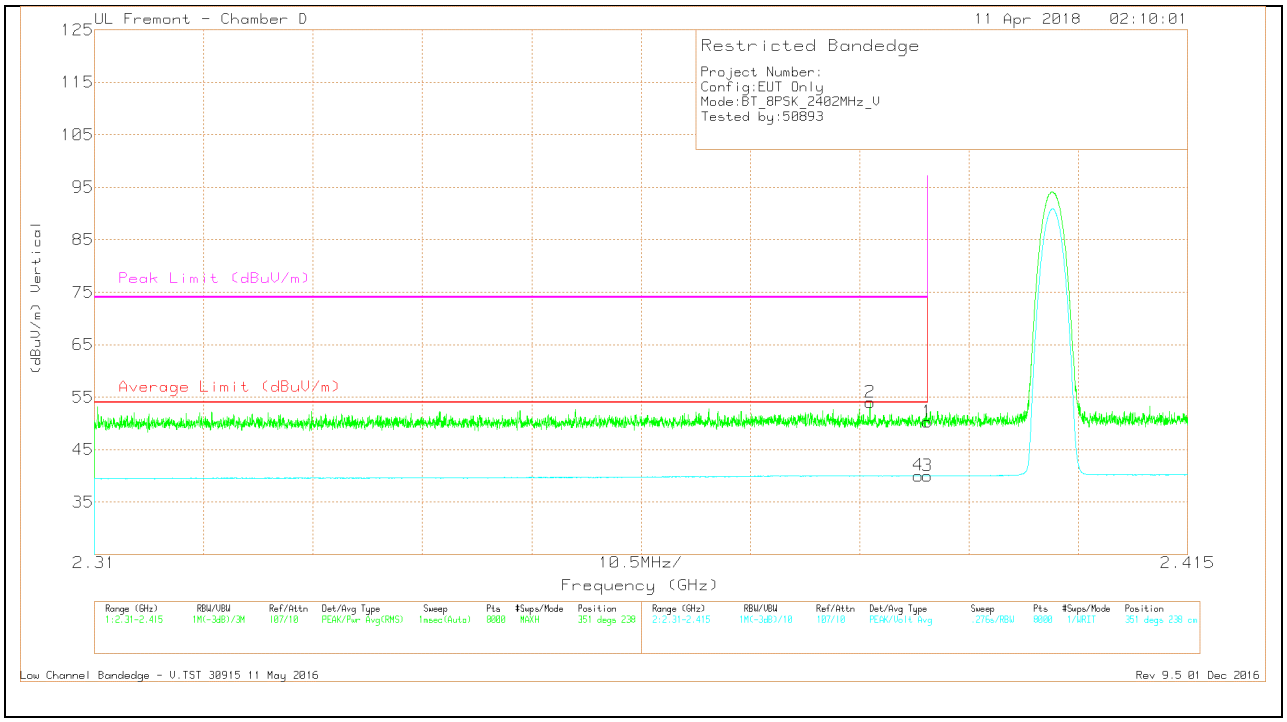
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (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 | 38.87 | Pk | 31.9 | -20.5 | 50.27 | - | - | 74 | -23.73 | 351 | 238 | V |
| 2 | * 2.384 | 42.6 | Pk | 31.9 | -20.5 | 54 | - | - | 74 | -20 | 351 | 238 | V |
| 3 | * 2.39 | 28.56 | VA1T | 31.9 | -20.5 | 39.96 | 54 | -14.04 | - | - | 351 | 238 | V |
| 4 | * 2.389 | 28.65 | VA1T | 31.9 | -20.5 | 40.05 | 54 | -13.95 | - | - | 351 | 238 | 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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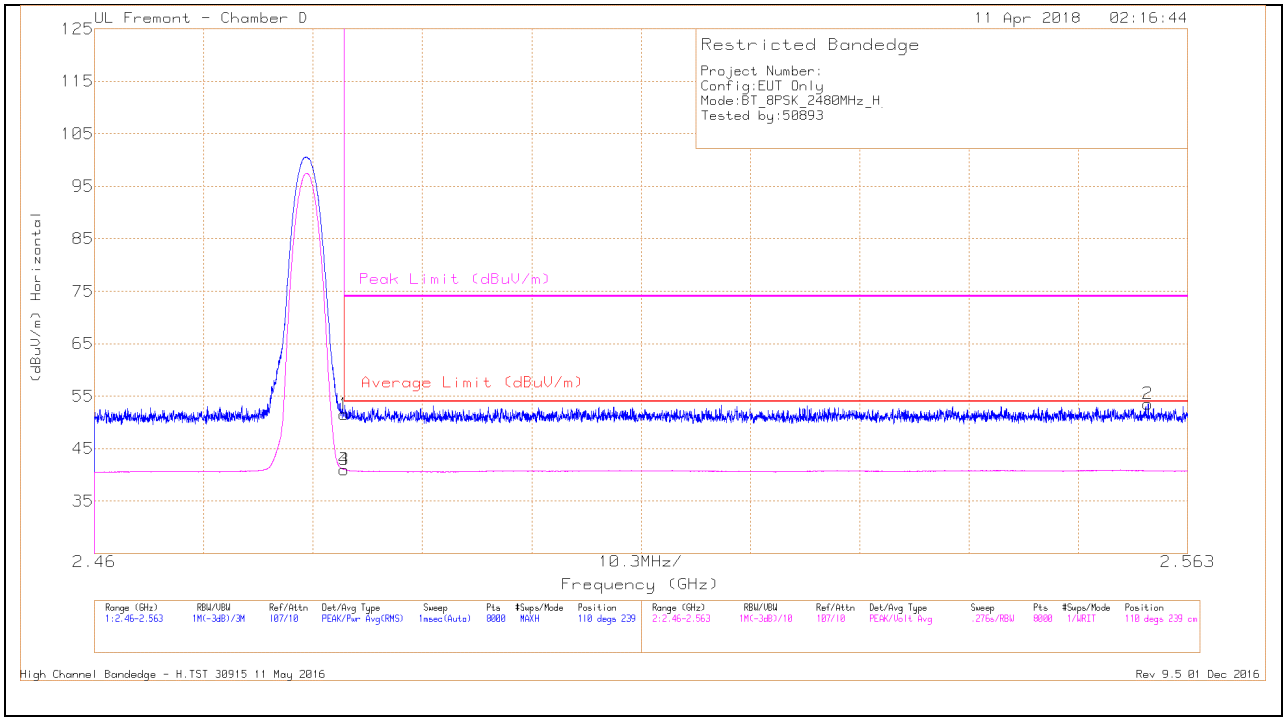
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.51 | Pk | 32.4 | -20.4 | 51.51 | - | - | 74 | -22.49 | 110 | 239 | H |
| 3 | * 2.484 | 29.02 | VA1T | 32.4 | -20.4 | 41.02 | 54 | -12.98 | - | - | 110 | 239 | H |
| 4 | * 2.484 | 29.03 | VA1T | 32.4 | -20.4 | 41.03 | 54 | -12.97 | - | - | 110 | 239 | H |
| 2 | 2.559 | 41.35 | Pk | 32.5 | -20.3 | 53.55 | - | - | 74 | -20.45 | 110 | 239 | 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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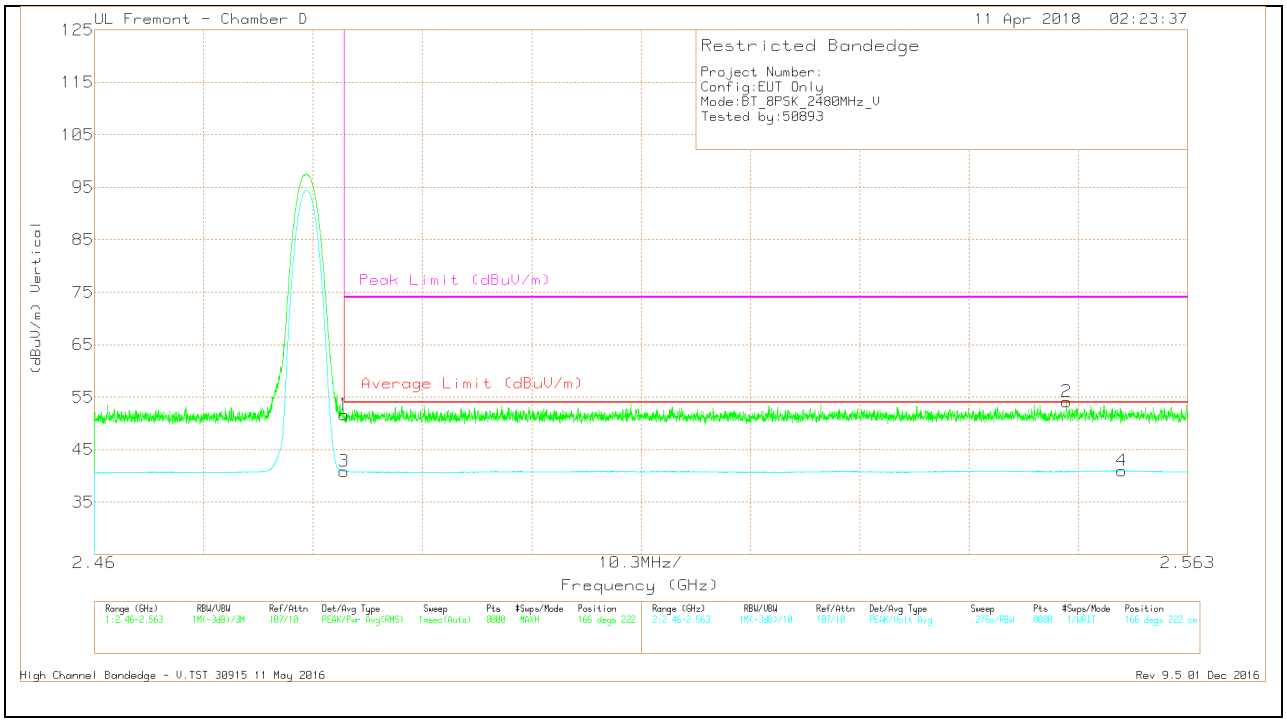
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T136 (dB/m) | Amp/Cbl /Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.64 | Pk | 32.4 | -20.4 | 51.64 | - | - | 74 | -22.36 | 166 | 222 | V |
| 3 | * 2.484 | 28.87 | VA1T | 32.4 | -20.4 | 40.87 | 54 | -13.13 | - | - | 166 | 222 | V |
| 2 | 2.552 | 42.09 | Pk | 32.4 | -20.4 | 54.09 | - | - | 74 | -19.91 | 166 | 222 | V |
| 4 | 2.557 | 28.68 | VA1T | 32.5 | -20.2 | 40.98 | 54 | -13.02 | - | - | 166 | 222 | 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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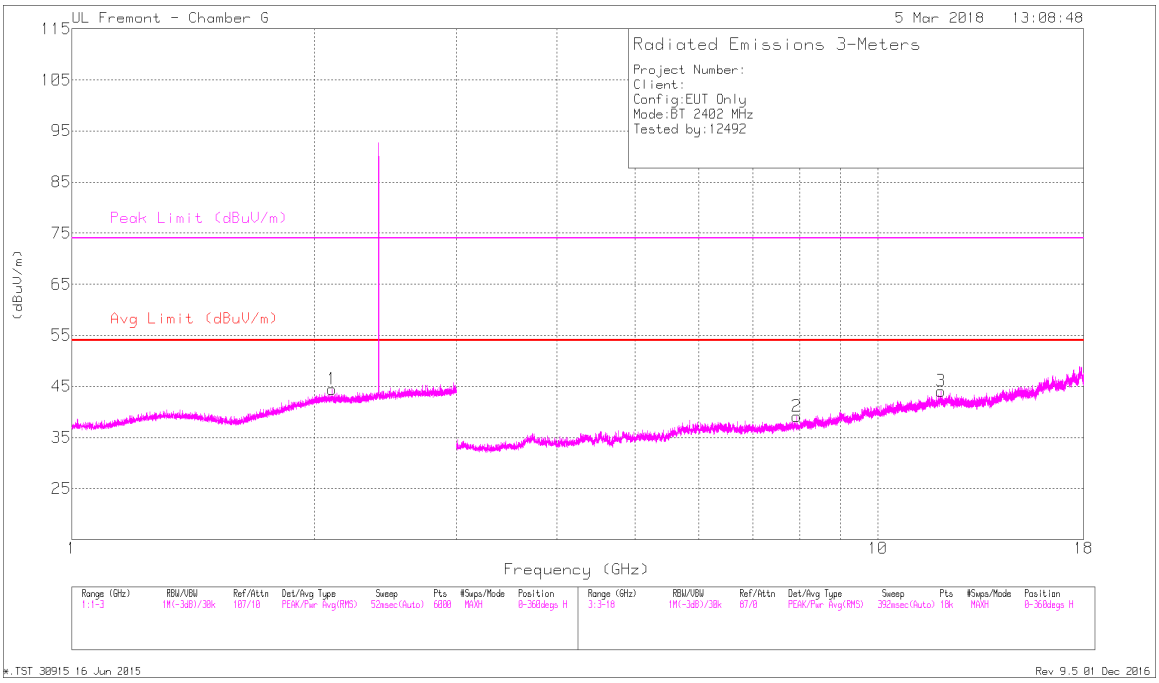
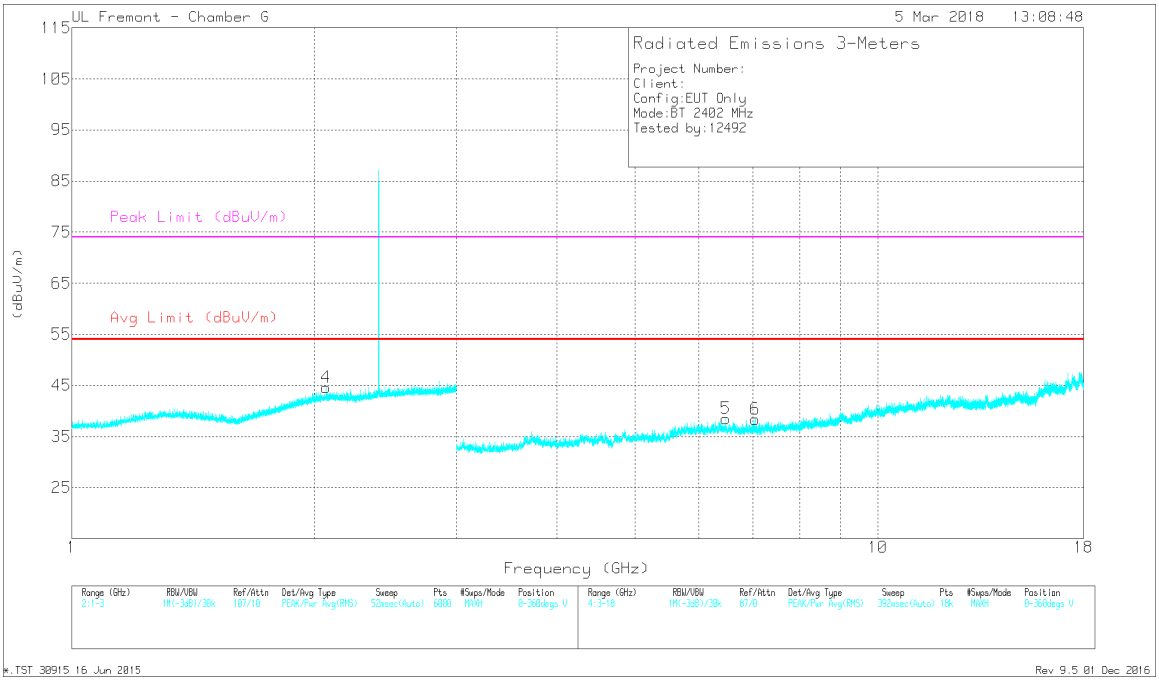
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 | * 11.986 | 35.35 | PKFH | 38.7 | -25.2 | 48.85 | - | - | 74 | -25.15 | 178 | 381 | H |
| | * 11.986 | 23.31 | VA1T | 38.7 | -25.1 | 36.91 | 54 | -17.09 | - | - | 178 | 381 | H |
| 4 | 2.068 | 41.79 | PKFH | 31.8 | -24.6 | 48.99 | - | - | - | - | 21 | 322 | V |
| 1 | 2.103 | 43.33 | PKFH | 31.9 | -24.5 | 50.73 | - | - | - | - | 29 | 309 | H |
| 5 | 6.48 | 40.09 | PKFH | 35.5 | -31.8 | 43.79 | - | - | - | - | 306 | 224 | V |
| 6 | 7.048 | 38.58 | PKFH | 35.4 | -31.3 | 42.68 | - | - | - | - | 299 | 145 | V |
| 2 | 7.94 | 37.46 | PKFH | 35.9 | -30 | 43.36 | - | - | - | - | 76 | 134 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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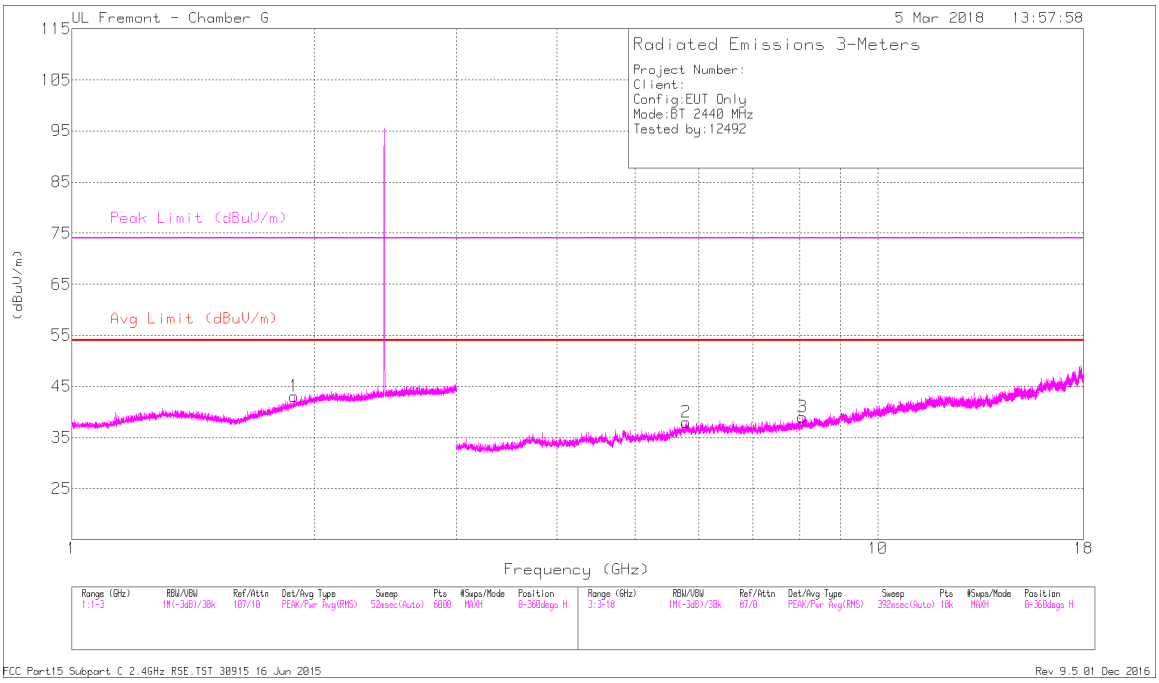
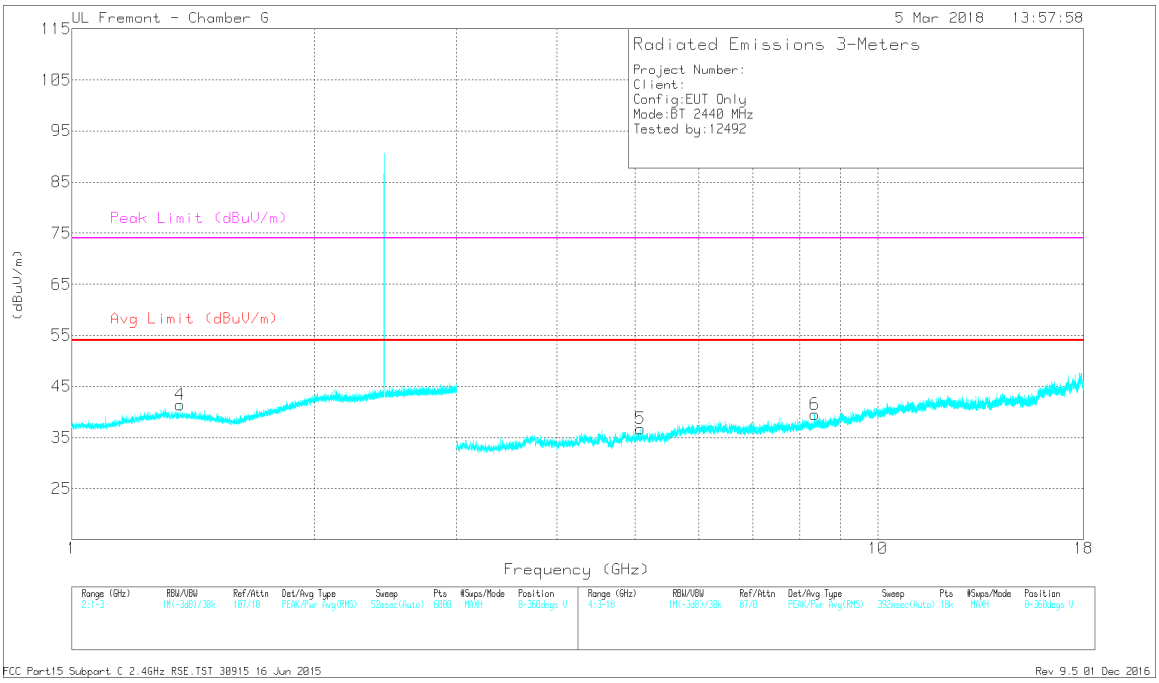
## MID CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | * 1.362 | 41.93 | PKFH | 28.8 | -25.4 | 45.33 | - | - | 74 | -28.67 | 175 | 192 | V |
| | * 1.363 | 30.57 | VA1T | 28.8 | -25.4 | 33.97 | 54 | -20.03 | - | - | 175 | 192 | V |
| 3 | * 8.065 | 37.06 | PKFH | 36 | -29.8 | 43.26 | - | - | 74 | -30.74 | 123 | 320 | H |
| | * 8.065 | 25.77 | VA1T | 36 | -29.8 | 31.97 | 54 | -22.03 | - | - | 123 | 320 | H |
| 5 | * 5.074 | 39.18 | PKFH | 34.2 | -31.8 | 41.58 | - | - | 74 | -32.42 | 244 | 305 | V |
| | * 5.076 | 27.3 | VA1T | 34.2 | -31.7 | 29.8 | 54 | -24.2 | - | - | 244 | 305 | V |
| 6 | * 8.36 | 37.21 | PKFH | 36.1 | -29.2 | 44.11 | - | - | 74 | -29.89 | 359 | 187 | V |
| | * 8.358 | 25.73 | VA1T | 36.1 | -29.2 | 32.63 | 54 | -21.37 | - | - | 359 | 187 | V |
| 1 | 1.888 | 41.74 | PKFH | 30.8 | -24.9 | 47.64 | - | - | - | - | 18 | 315 | H |
| 2 | 5.785 | 40.11 | PKFH | 35.3 | -31.6 | 43.81 | - | - | - | - | 100 | 321 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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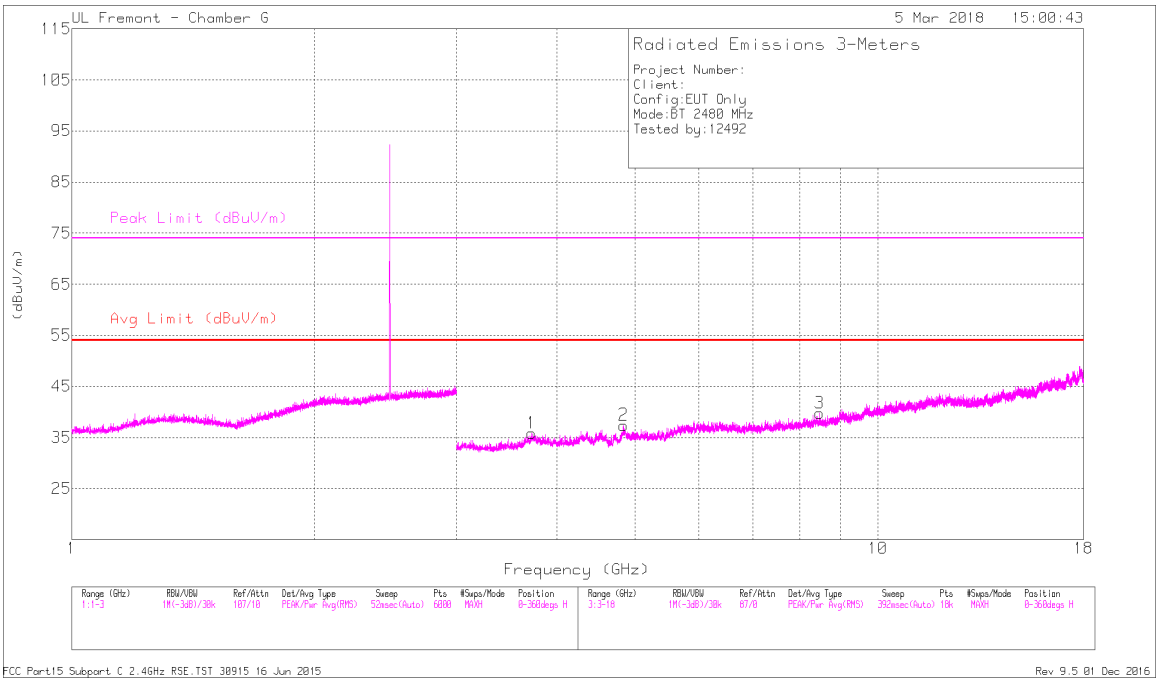
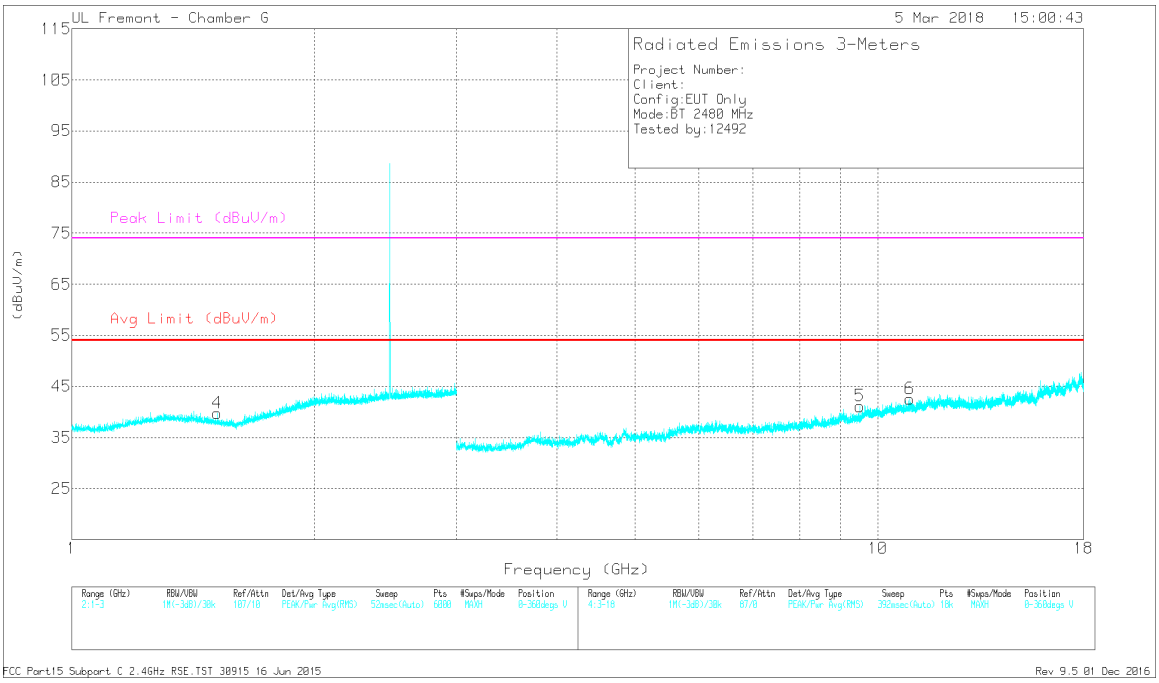
## HIGH CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | * 1.517 | 41.38 | PKFH | 27.9 | -25.1 | 44.18 | - | - | 74 | -29.82 | 249 | 320 | V |
| | * 1.515 | 30.46 | VA1T | 27.9 | -25.1 | 33.26 | 54 | -20.74 | - | - | 249 | 320 | V |
| 1 | * 3.72 | 39.6 | PKFH | 33.3 | -31.2 | 41.7 | - | - | 74 | -32.3 | 326 | 318 | H |
| | * 3.723 | 27.58 | VA1T | 33.3 | -31.2 | 29.68 | 54 | -24.32 | - | - | 326 | 318 | H |
| 2 | * 4.834 | 40.57 | PKFH | 34.1 | -32.2 | 42.47 | - | - | 74 | -31.53 | 169 | 115 | H |
| | * 4.836 | 28.66 | VA1T | 34.1 | -32.2 | 30.56 | 54 | -23.44 | - | - | 169 | 115 | H |
| 3 | * 8.469 | 38.07 | PKFH | 36.2 | -28.9 | 45.37 | - | - | 74 | -28.63 | 21 | 265 | H |
| | * 8.472 | 25.6 | VA1T | 36.2 | -28.9 | 32.9 | 54 | -21.1 | - | - | 21 | 265 | H |
| 5 | * 9.498 | 37.2 | PKFH | 36.9 | -28.6 | 45.5 | - | - | 74 | -28.5 | 165 | 237 | V |
| | * 9.497 | 25.46 | VA1T | 36.9 | -28.6 | 33.76 | 54 | -20.24 | - | - | 165 | 237 | V |
| 6 | * 10.951 | 35.28 | PKFH | 38 | -25.9 | 47.38 | - | - | 74 | -26.62 | 241 | 311 | V |
| | * 10.952 | 23.55 | VA1T | 38 | -25.9 | 35.65 | 54 | -18.35 | - | - | 241 | 311 | V |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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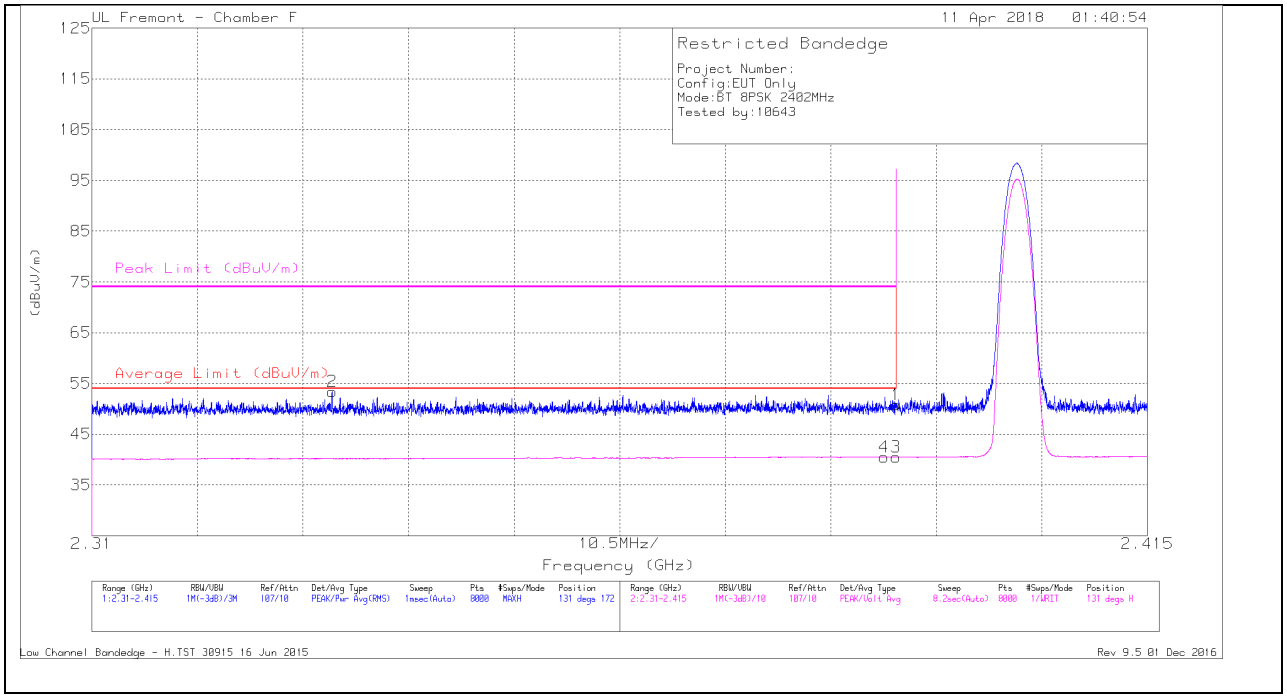
**ANTENNA 3**

## BANDEDGE (LOW CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (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 | 39.53 | Pk | 31.9 | -20.6 | 50.83 | - | - | 74 | -23.17 | 131 | 172 | H |
| 2 | * 2.334 | 42.39 | Pk | 31.7 | -20.7 | 53.39 | - | - | 74 | -20.61 | 131 | 172 | H |
| 3 | * 2.39 | 29.16 | VA1T | 31.9 | -20.6 | 40.46 | 54 | -13.54 | - | - | 131 | 172 | H |
| 4 | * 2.389 | 29.2 | VA1T | 31.9 | -20.6 | 40.5 | 54 | -13.5 | - | - | 131 | 172 | 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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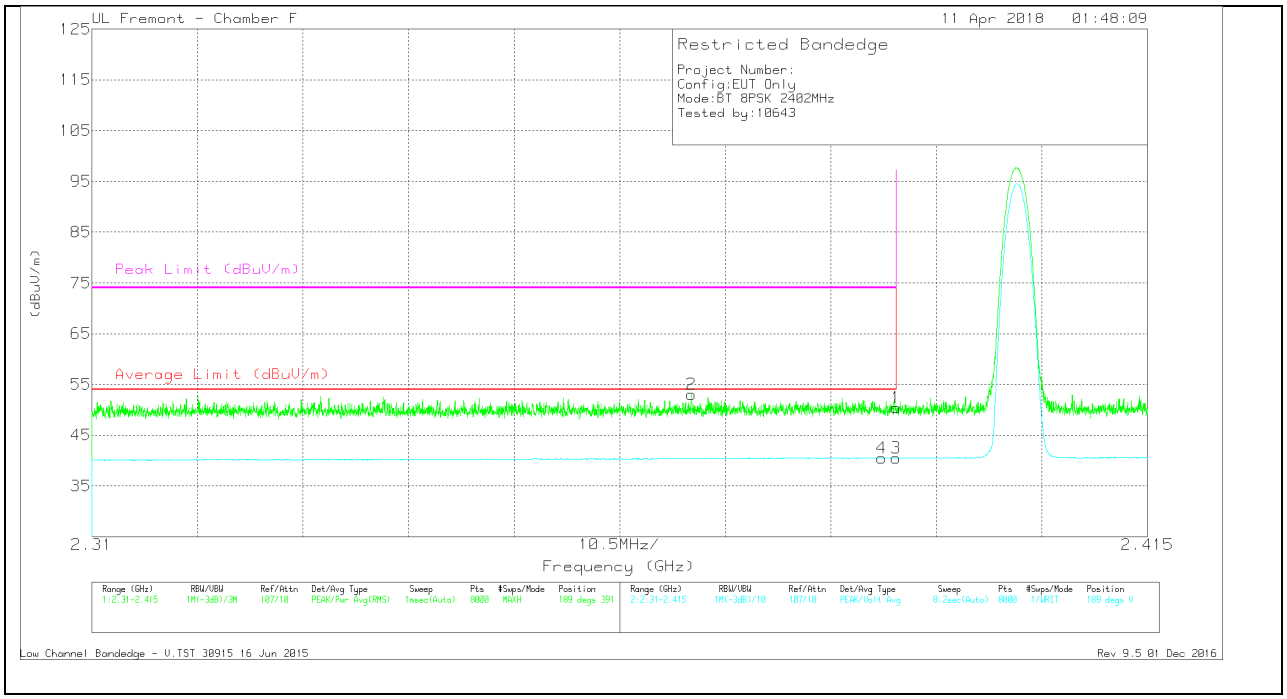
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl /Fltr/Pad (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 | 39.12 | Pk | 31.9 | -20.6 | 50.42 | - | - | 74 | -23.58 | 189 | 391 | V |
| 2 | * 2.37 | 41.8 | Pk | 31.8 | -20.6 | 53 | - | - | 74 | -21 | 189 | 391 | V |
| 3 | * 2.39 | 29.17 | VA1T | 31.9 | -20.6 | 40.47 | 54 | -13.53 | - | - | 189 | 391 | V |
| 4 | * 2.389 | 29.23 | VA1T | 31.9 | -20.6 | 40.53 | 54 | -13.47 | - | - | 189 | 391 | 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



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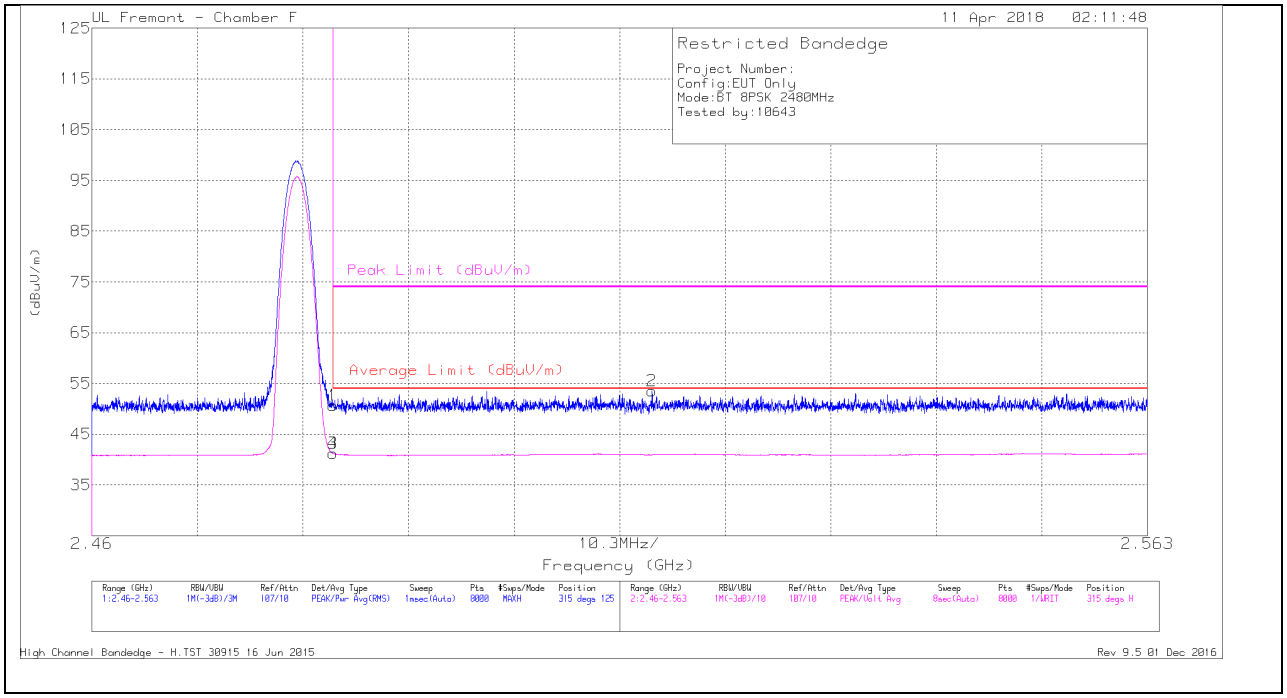
## BANDEDGE (HIGH CHANNEL)

### HORIZONTAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.26 | Pk | 32.1 | -20.7 | 50.66 | - | - | 74 | -23.34 | 315 | 125 | H |
| 2 | 2.515 | 42.01 | Pk | 32.2 | -20.7 | 53.51 | - | - | 74 | -20.49 | 315 | 125 | H |
| 3 | * 2.484 | 29.85 | VA1T | 32.1 | -20.7 | 41.25 | 54 | -12.75 | - | - | 315 | 125 | H |
| 4 | * 2.484 | 29.82 | VA1T | 32.1 | -20.7 | 41.22 | 54 | -12.78 | - | - | 315 | 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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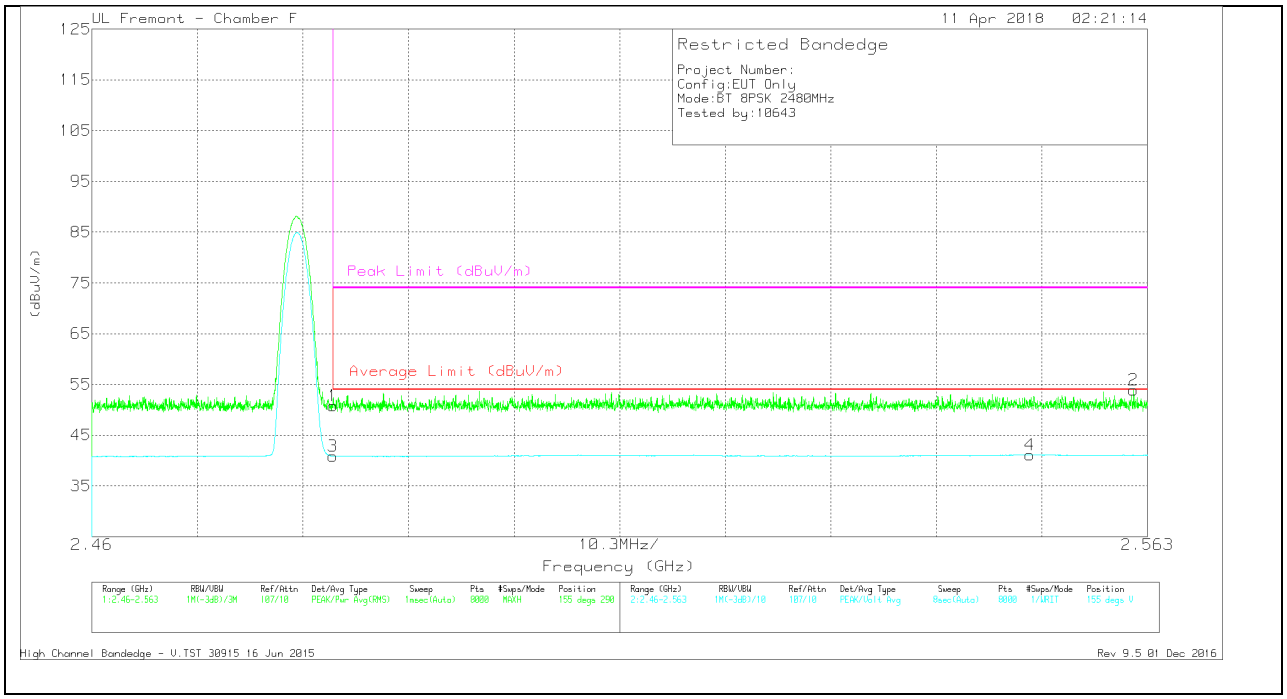
# VERTICAL RESULT




| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T119 (dB/m) | Amp/Cbl/Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Average Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 2.484 | 39.35 | Pk | 32.1 | -20.7 | 50.75 | - | - | 74 | -23.25 | 155 | 290 | V |
| 2 | 2.562 | 42.26 | Pk | 32.2 | -20.6 | 53.86 | - | - | 74 | -20.14 | 155 | 290 | V |
| 3 | * 2.484 | 29.46 | VA1T | 32.1 | -20.7 | 40.86 | 54 | -13.14 | - | - | 155 | 290 | V |
| 4 | 2.552 | 29.44 | VA1T | 32.2 | -20.5 | 41.14 | 54 | -12.86 | - | - | 155 | 290 | 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



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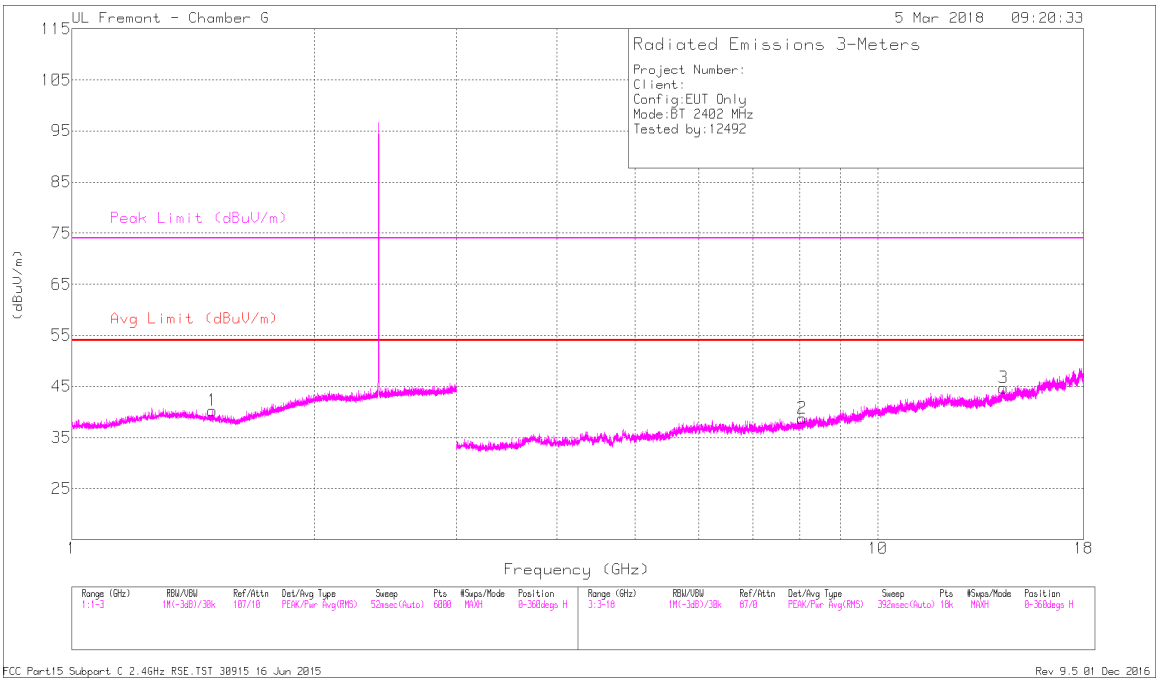
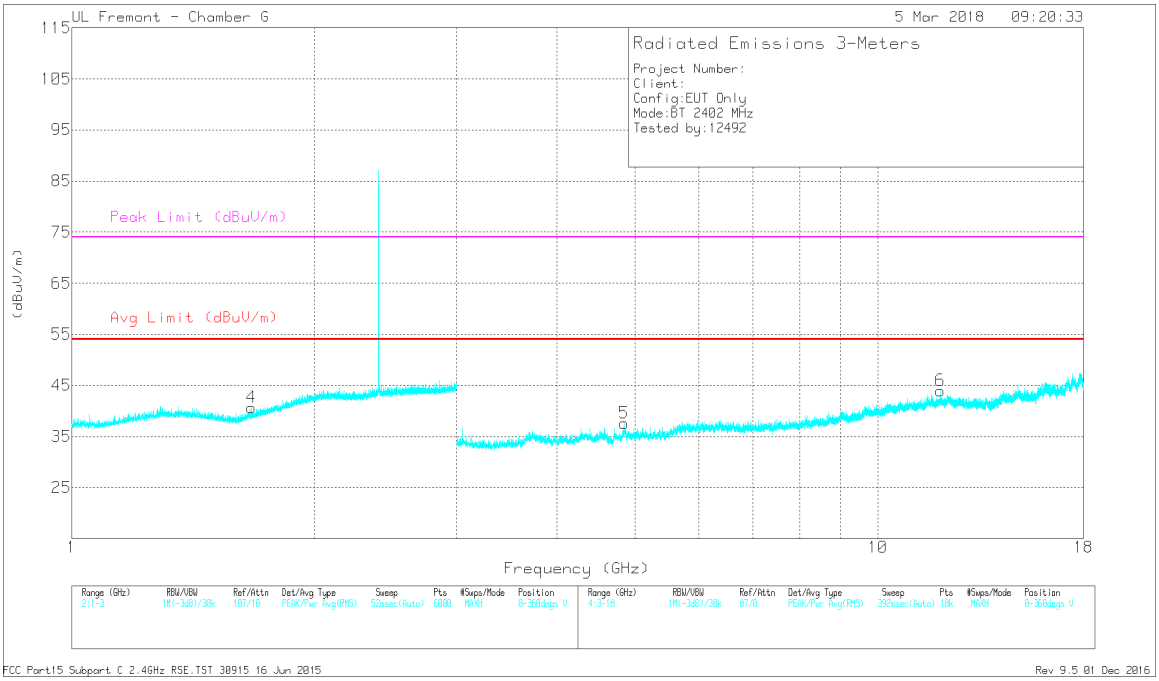
## HARMONICS AND SPURIOUS EMISSIONS

### LOW CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 1.494 | 43.51 | PKFH | 28.1 | -25.1 | 46.51 | - | - | 74 | -27.49 | 56 | 307 | H |
| | * 1.496 | 30.53 | VA1T | 28 | -25.1 | 33.43 | 54 | -20.57 | - | - | 56 | 307 | H |
| 4 | * 1.673 | 42.16 | PKFH | 28.3 | -24.9 | 45.56 | - | - | 74 | -28.44 | 107 | 223 | V |
| | * 1.67 | 30.54 | VA1T | 28.3 | -24.9 | 33.94 | 54 | -20.06 | - | - | 107 | 223 | V |
| 2 | * 8.053 | 38.08 | PKFH | 36 | -29.9 | 44.18 | - | - | 74 | -29.82 | 207 | 313 | H |
| | * 8.051 | 26.04 | VA1T | 36 | -29.9 | 32.14 | 54 | -21.86 | - | - | 207 | 313 | H |
| 5 | * 4.845 | 40.42 | PKFH | 34.1 | -32.2 | 42.32 | - | - | 74 | -31.68 | 170 | 314 | V |
| | * 4.843 | 28.88 | VA1T | 34.1 | -32.2 | 30.78 | 54 | -23.22 | - | - | 170 | 314 | V |
| 6 | * 11.954 | 35.19 | PKFH | 38.7 | -24.8 | 49.09 | - | - | 74 | -24.91 | 176 | 173 | V |
| | * 11.955 | 23.23 | VA1T | 38.7 | -24.8 | 37.13 | 54 | -16.87 | - | - | 176 | 173 | V |
| 3 | 14.311 | 36.15 | PKFH | 39.7 | -25.8 | 50.05 | - | - | - | - | 33 | 108 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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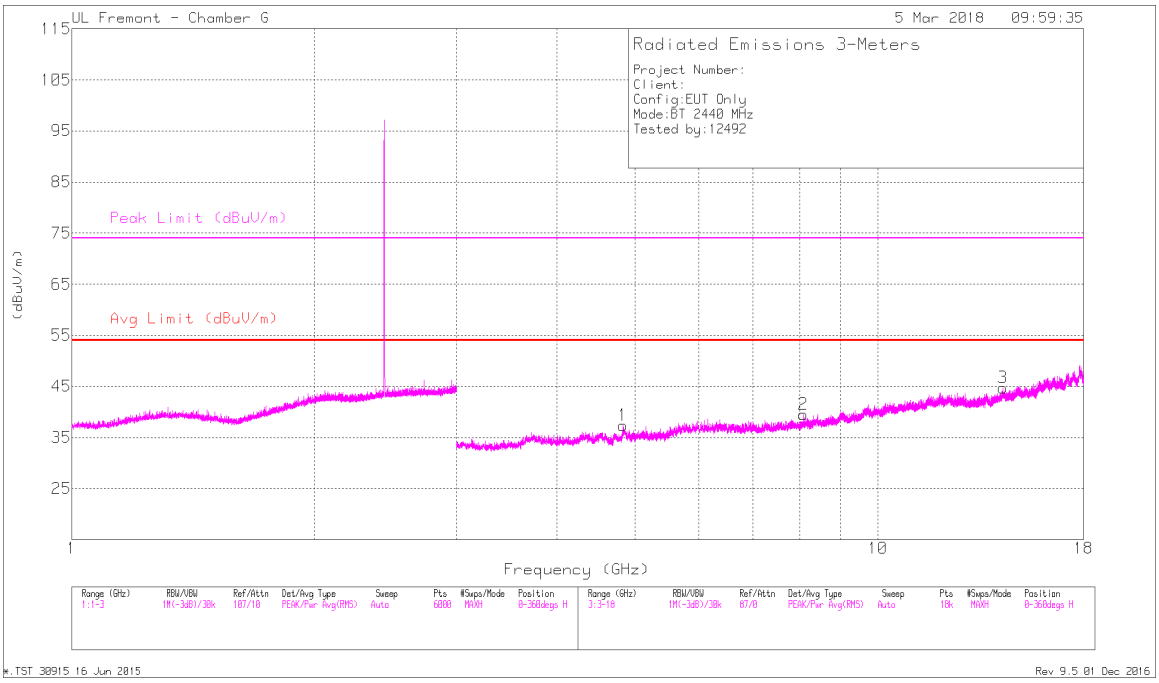
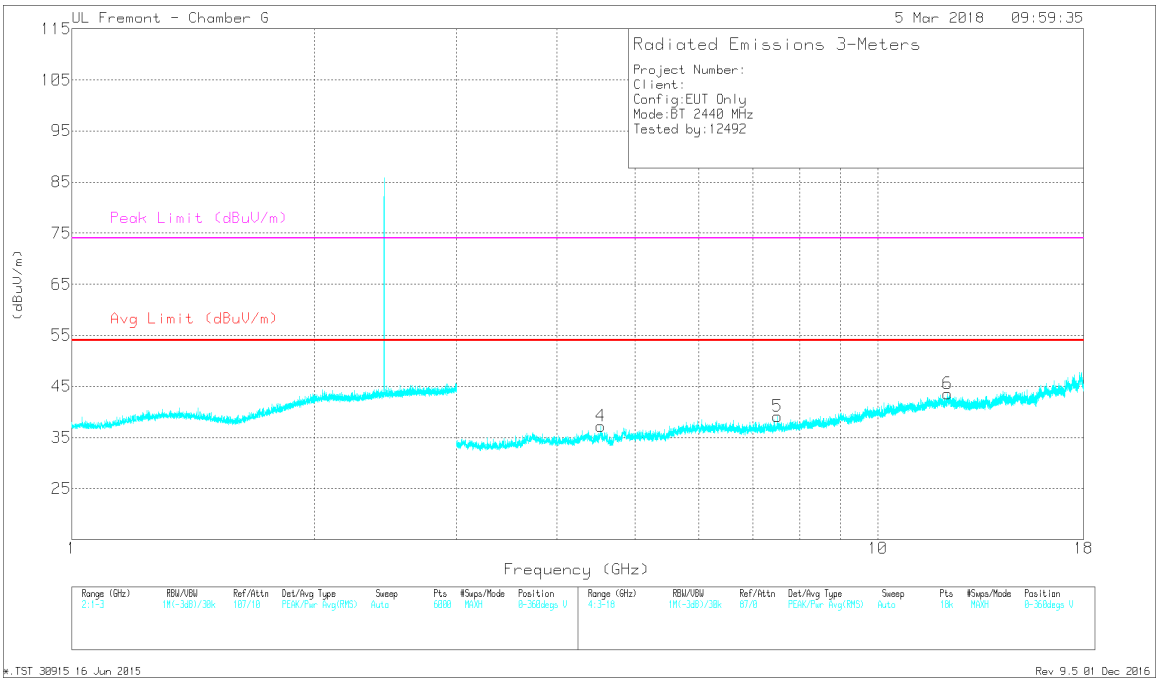
## MID CHANNEL RESULTS




**HORIZTONAL**

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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | * 4.827 | 40.52 | PKFH | 34.1 | -32.2 | 42.42 | - | - | 74 | -31.58 | 126 | 340 | H |
| | * 4.827 | 29 | VA1T | 34.1 | -32.2 | 30.9 | 54 | -23.1 | - | - | 126 | 340 | H |
| 2 | * 8.085 | 37.51 | PKFH | 36.1 | -29.5 | 44.11 | - | - | 74 | -29.89 | 338 | 344 | H |
| | * 8.083 | 25.98 | VA1T | 36.1 | -29.5 | 32.58 | 54 | -21.42 | - | - | 338 | 344 | H |
| 4 | * 4.531 | 41.15 | PKFH | 34.2 | -32.4 | 42.95 | - | - | 74 | -31.05 | 117 | 154 | V |
| | * 4.531 | 27.98 | VA1T | 34.2 | -32.4 | 29.78 | 54 | -24.22 | - | - | 117 | 154 | V |
| 5 | * 7.515 | 38.28 | PKFH | 35.7 | -29.7 | 44.28 | - | - | 74 | -29.72 | 20 | 148 | V |
| | * 7.512 | 25.95 | VA1T | 35.6 | -29.7 | 31.85 | 54 | -22.15 | - | - | 20 | 148 | V |
| 6 | * 12.197 | 34.76 | PKFH | 38.7 | -25.3 | 48.16 | - | - | 74 | -25.84 | 45 | 325 | V |
| | * 12.199 | 23.12 | VA1T | 38.7 | -25.3 | 36.52 | 54 | -17.48 | - | - | 45 | 325 | V |
| 3 | 14.306 | 36.26 | PKFH | 39.7 | -25.7 | 50.26 | - | - | - | - | 211 | 161 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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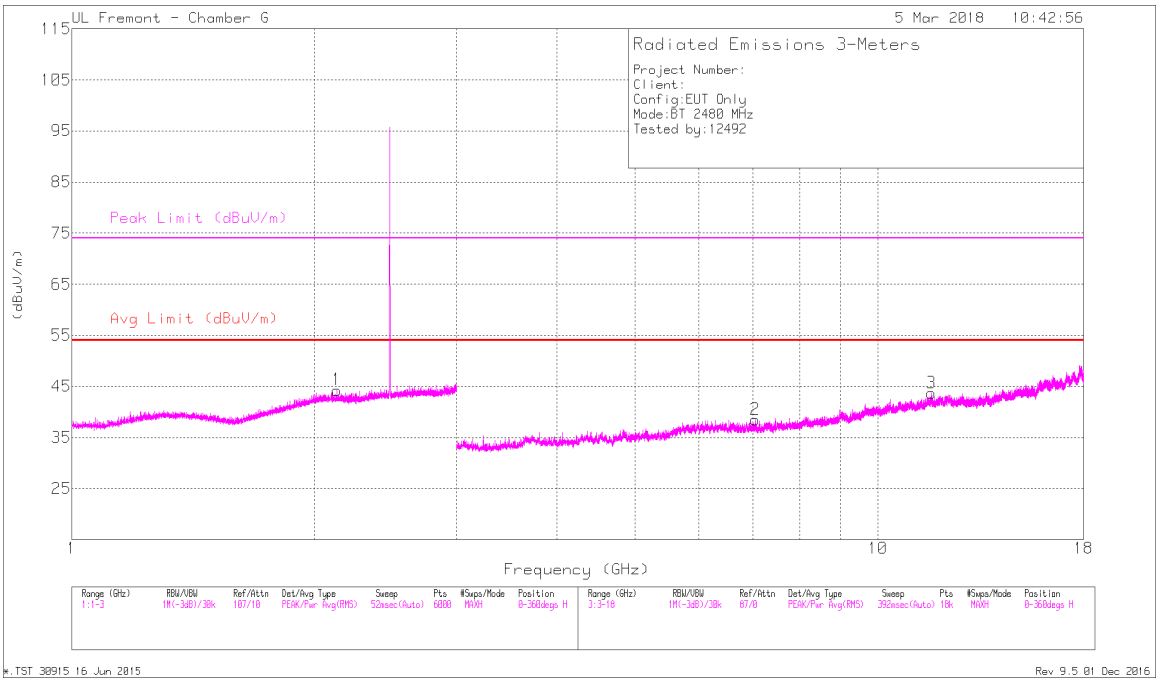
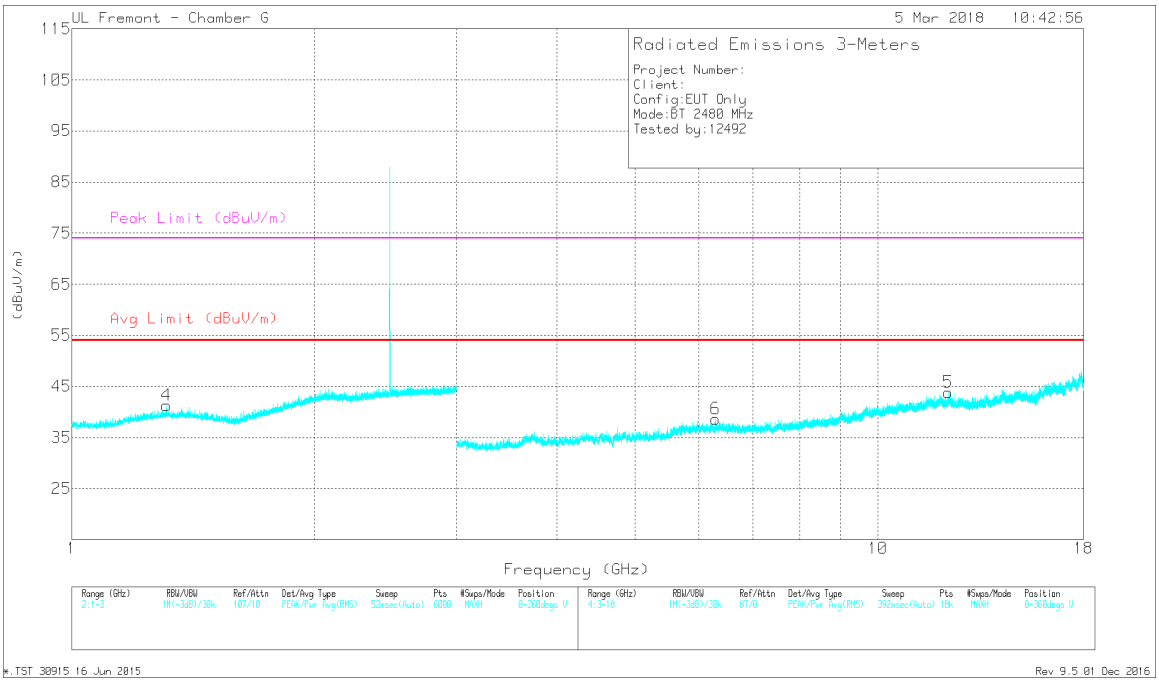
## HIGH CHANNEL RESULTS




**HORIZTONAL**




**VERTICAL**



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## RADIATED EMISSIONS

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | AF T345 (dB/m) | Amp/Cbl/ Fltr/Pad (dB) | Corrected Reading (dBuV/m) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | * 1.312 | 42.59 | PKFH | 28.9 | -25.5 | 45.99 | - | - | 74 | -28.01 | 280 | 263 | V |
| | * 1.31 | 30.79 | VA1T | 28.9 | -25.5 | 34.19 | 54 | -19.81 | - | - | 280 | 263 | V |
| 3 | * 11.659 | 35.31 | PKFH | 38.6 | -25.4 | 48.51 | - | - | 74 | -25.49 | 24 | 328 | H |
| | * 11.658 | 23.36 | VA1T | 38.6 | -25.4 | 36.56 | 54 | -17.44 | - | - | 24 | 328 | H |
| 6 | * 12.237 | 34.44 | PKFH | 38.7 | -25.1 | 48.04 | - | - | 74 | -25.96 | 108 | 101 | V |
| | * 12.235 | 23.07 | VA1T | 38.7 | -25.1 | 36.67 | 54 | -17.33 | - | - | 108 | 101 | V |
| 1 | 2.132 | 42.77 | PKFH | 31.8 | -24.5 | 50.07 | - | - | - | - | 340 | 144 | H |
| 5 | 6.296 | 38.83 | PKFH | 35.6 | -30.6 | 43.83 | - | - | - | - | 198 | 219 | V |
| 2 | 7.053 | 39.48 | PKFH | 35.5 | -31.3 | 43.68 | - | - | - | - | 275 | 152 | H |

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak
VA1T - FHSS: Linear Voltage Average VB=1/Ton where: Ton is transmit duration


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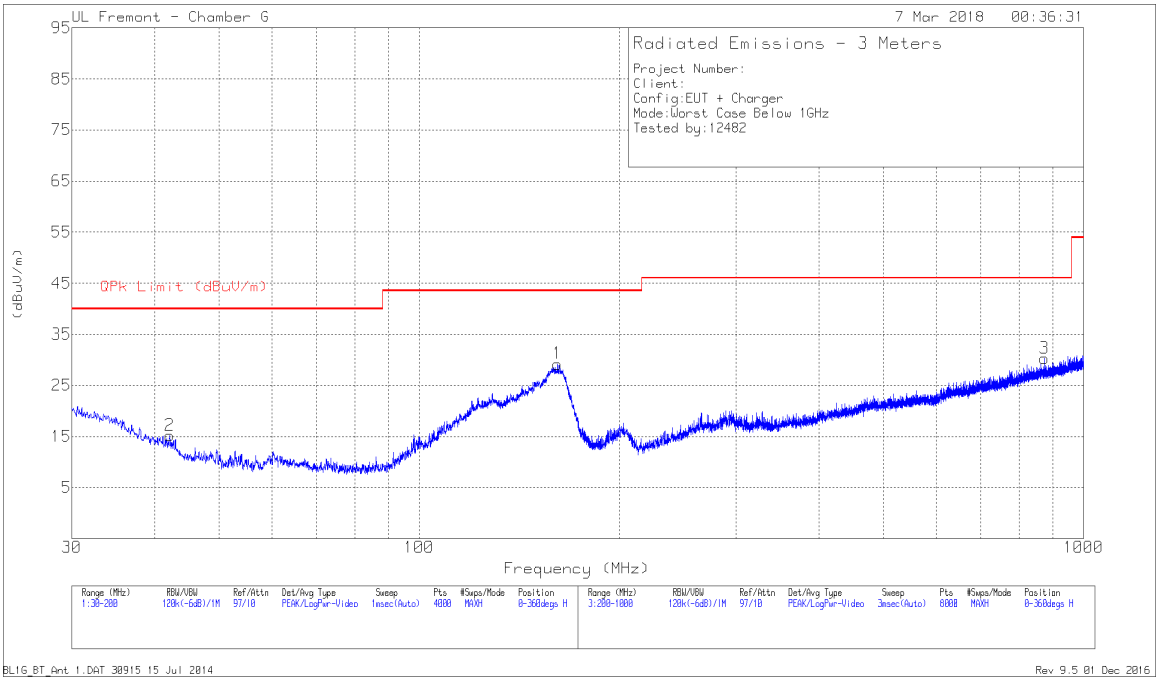
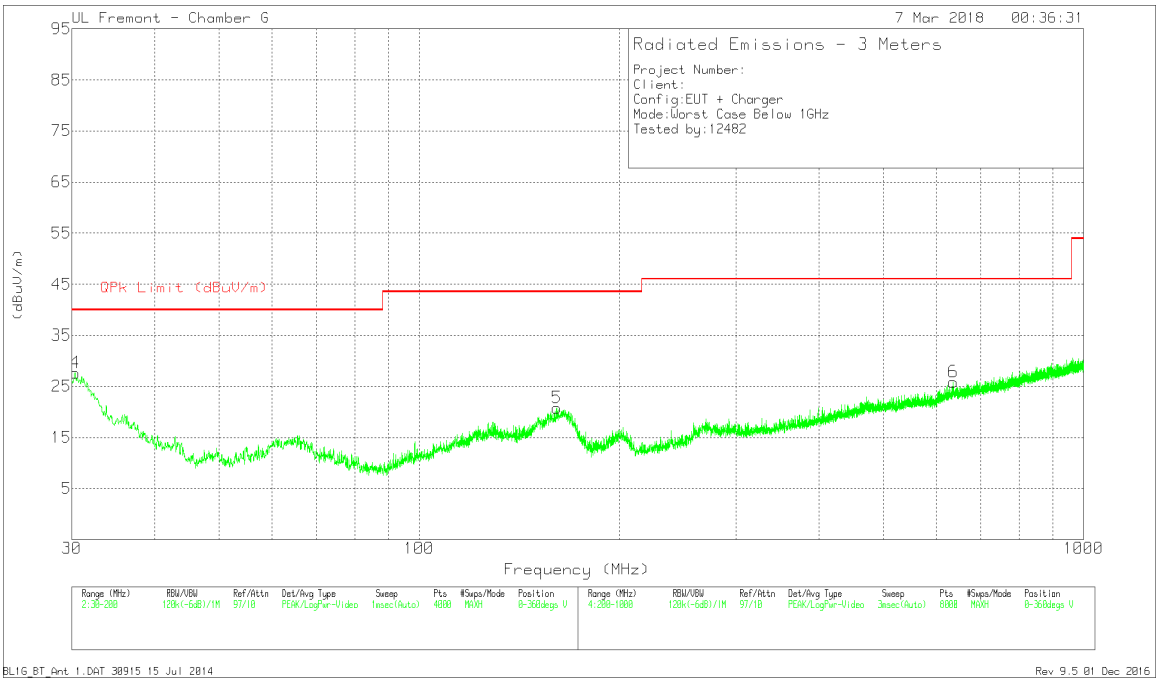
## 9.2. Worst Case Below 1 GHz

**SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)**




**HORIZTONAL**




**VERTICAL**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## Below 1GHz Data

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | AF T407 (dB/m) | Amp Cbl (dB) | Corrected Reading (dBuV/m) | QPk Limit (dBuV/m) | Margin (dB) | Azimuth (Degs) | Height (cm) | Polarity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 30.3401 | 34.93 | Pk | 23.9 | -31.2 | 27.63 | 40 | -12.37 | 0-360 | 100 | V |
| 2 | 42.1156 | 29.99 | Pk | 16.3 | -31.1 | 15.19 | 40 | -24.81 | 0-360 | 400 | H |
| 5 | 161.0189 | 34.52 | Pk | 16.1 | -29.9 | 20.72 | 43.52 | -22.8 | 0-360 | 100 | V |
| 1 | 161.6141 | 43.02 | Pk | 16.1 | -29.9 | 29.22 | 43.52 | -14.3 | 0-360 | 201 | H |
| 6 | 636.8568 | 29.51 | Pk | 23.7 | -27.3 | 25.91 | 46.02 | -20.11 | 0-360 | 300 | V |
| 3 | 872.5874 | 30.34 | Pk | 26.1 | -26.2 | 30.24 | 46.02 | -15.78 | 0-360 | 400 | H |

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


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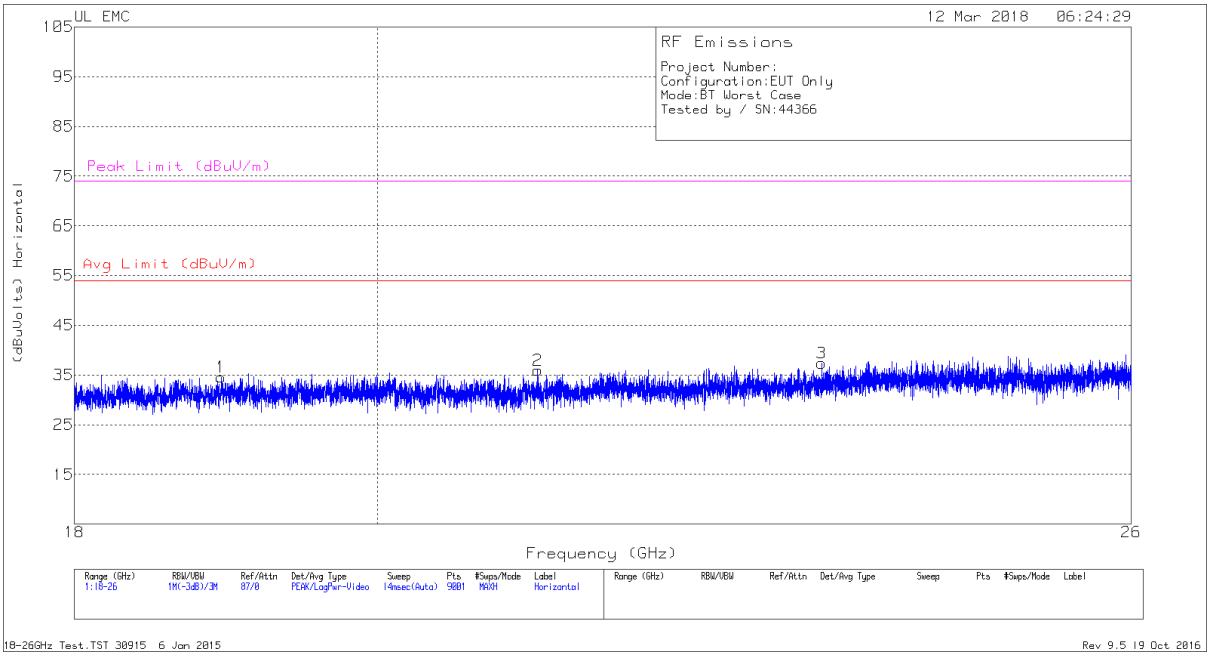
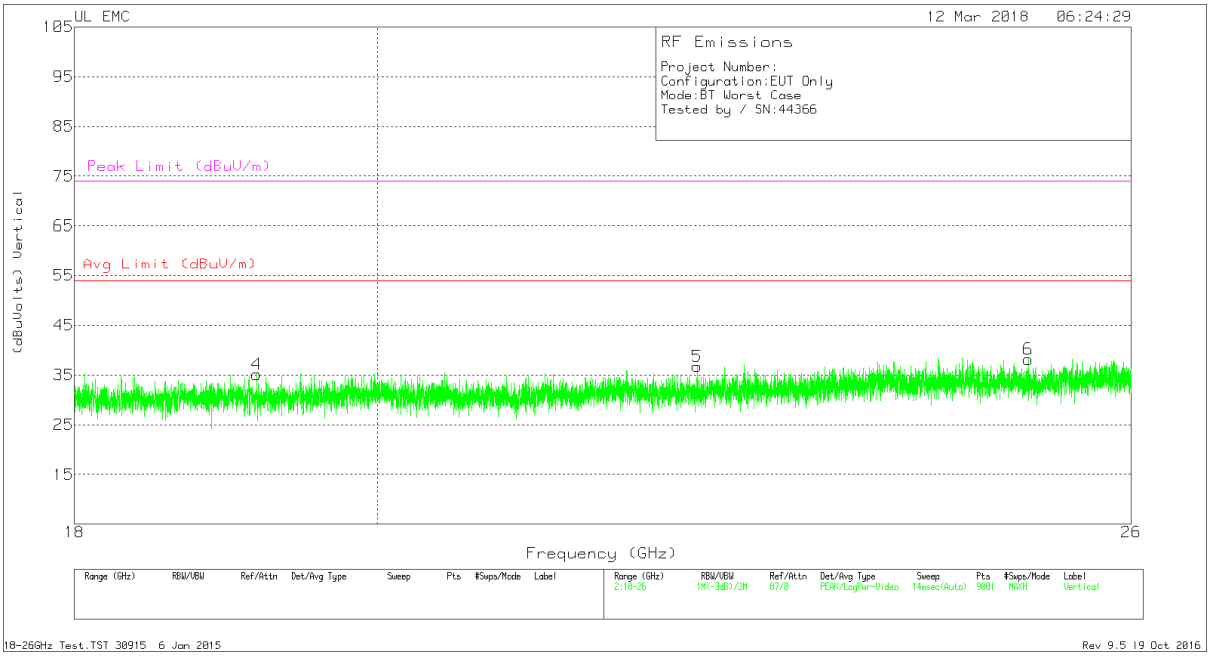
## 9.3. Worst Case 18-26 GHz

**SPURIOUS EMISSIONS 18-26 GHz (WORST-CASE CONFIGURATION)**




**HORIZTONAL**




**VERTICAL**



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## 18 – 26GHz DATA

| Marker | Frequency (GHz) | Meter Reading (dBuV) | Det | T89 AF (dB/m) | Amp/Cbl (dB) | Dist Corr (dB) | Corrected Reading (dBuVolts) | Avg Limit (dBuV/m) | Margin (dB) | Peak Limit (dBuV/m) | PK Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 18.941 | 36.94 | Pk | 32.2 | -25.1 | -9.5 | 34.54 | 54 | -19.46 | 74 | -39.46 |
| 2 | 21.148 | 37.95 | Pk | 32.9 | -25.4 | -9.5 | 35.95 | 54 | -18.05 | 74 | -38.05 |
| 3 | 23.344 | 38.38 | Pk | 33.4 | -24.9 | -9.5 | 37.38 | 54 | -16.62 | 74 | -36.62 |
| 4 | 19.179 | 37.03 | Pk | 32.3 | -24.7 | -9.5 | 35.13 | 54 | -18.87 | 74 | -38.87 |
| 5 | 22.355 | 37.94 | Pk | 33 | -24.7 | -9.5 | 36.74 | 54 | -17.26 | 74 | -37.26 |
| 6 | 25.084 | 38.26 | Pk | 34 | -24.6 | -9.5 | 38.16 | 54 | -15.84 | 74 | -35.84 |

Pk - Peak detector


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# 10. AC POWER LINE CONDUCTED EMISSIONS

**LIMITS**

FCC §15.207 (a)

RSS-Gen 8.8

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

* Decreases with the logarithm of the frequency.

**TEST PROCEDURE**

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

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

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

**RESULTS**


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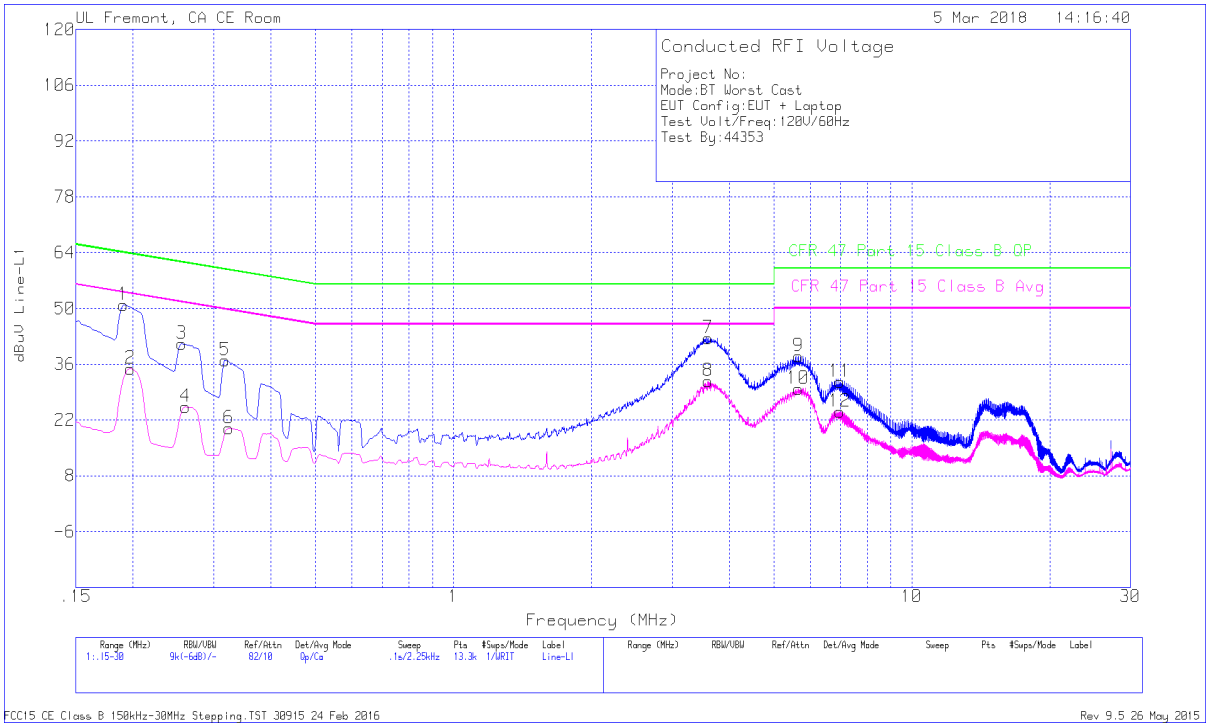
### 10.1.1. AC Power Line Host

## LINE 1 RESULTS




Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR) Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .1905 | 40.81 | Qp | 0 | 0 | 10.1 | 50.91 | 64.01 | -13.1 | - | - |
| 2 | .19725 | 24.83 | Ca | 0 | 0 | 10.1 | 34.93 | - | - | 53.73 | -18.8 |
| 3 | .25575 | 30.98 | Qp | 0 | 0 | 10.1 | 41.08 | 61.57 | -20.49 | - | - |
| 4 | .26025 | 15.19 | Ca | 0 | 0 | 10.1 | 25.29 | - | - | 51.42 | -26.13 |
| 5 | .31762 | 26.8 | Qp | 0 | 0 | 10.1 | 36.9 | 59.77 | -22.87 | - | - |
| 6 | .32325 | 9.8 | Ca | 0 | 0 | 10.1 | 19.9 | - | - | 49.62 | -29.72 |
| 7 | 3.59025 | 32.4 | Qp | 0 | .1 | 10.1 | 42.6 | 56 | -13.4 | - | - |
| 8 | 3.59025 | 21.52 | Ca | 0 | .1 | 10.1 | 31.72 | - | - | 46 | -14.28 |
| 9 | 5.65125 | 27.54 | Qp | 0 | .2 | 10.2 | 37.94 | 60 | -22.06 | - | - |
| 10 | 5.65125 | 19.42 | Ca | 0 | .2 | 10.2 | 29.82 | - | - | 50 | -20.18 |
| 11 | 6.9765 | 21.16 | Qp | 0 | .2 | 10.2 | 31.56 | 60 | -28.44 | - | - |
| 12 | 6.96525 | 13.64 | Ca | 0 | .2 | 10.2 | 24.04 | - | - | 50 | -25.96 |

Qp - Quasi-Peak detector
Ca - CISPR average detection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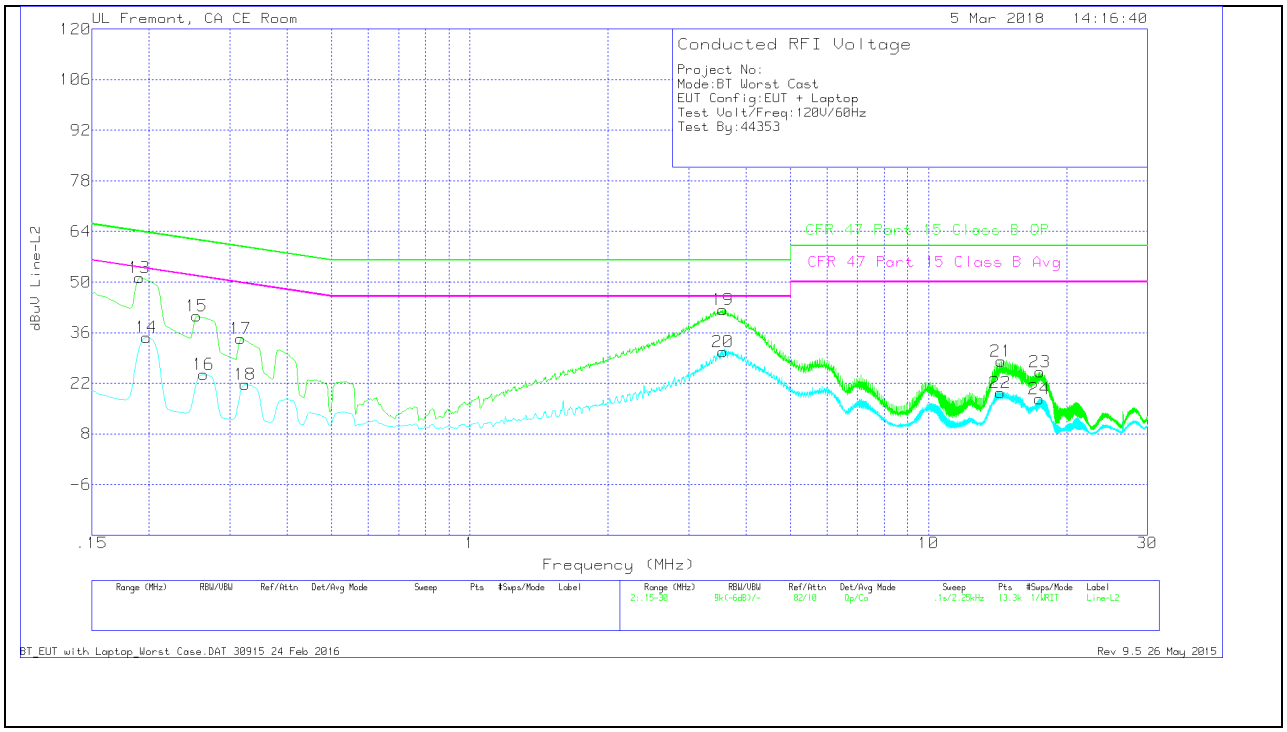
# LINE 2 RESULTS




| Range 2: Line-L2 .15 - 30MHz | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Limiter (dB) | Corrected Reading dBuV | CFR 47 Part 15 Class B QP | QP Margin (dB) | CFR 47 Part 15 Class B Avg | Av(CISPR) Margin (dB) |
| 13 | .1905 | 41.12 | Qp | 0 | 0 | 10.1 | 51.22 | 64.01 | -12.79 | - | - |
| 14 | .19725 | 24.67 | Ca | 0 | 0 | 10.1 | 34.77 | - | - | 53.73 | -18.96 |
| 15 | .2535 | 30.52 | Qp | 0 | 0 | 10.1 | 40.62 | 61.64 | -21.02 | - | - |
| 16 | .2625 | 14.27 | Ca | 0 | 0 | 10.1 | 24.37 | - | - | 51.35 | -26.98 |
| 17 | .3165 | 24.31 | Qp | 0 | 0 | 10.1 | 34.41 | 59.8 | -25.39 | - | - |
| 18 | .32325 | 11.53 | Ca | 0 | 0 | 10.1 | 21.63 | - | - | 49.62 | -27.99 |
| 19 | 3.55763 | 32.18 | Qp | 0 | .1 | 10.1 | 42.38 | 56 | -13.62 | - | - |
| 20 | 3.5565 | 20.53 | Ca | 0 | .1 | 10.1 | 30.73 | - | - | 46 | -15.27 |
| 21 | 14.37675 | 17.53 | Qp | .1 | .3 | 10.2 | 28.13 | 60 | -31.87 | - | - |
| 22 | 14.361 | 8.86 | Ca | .1 | .3 | 10.2 | 19.46 | - | - | 50 | -30.54 |
| 23 | 17.5155 | 14.47 | Qp | 0 | .3 | 10.3 | 25.07 | 60 | -34.93 | - | - |
| 24 | 17.45025 | 7.14 | Ca | 0 | .3 | 10.3 | 17.74 | - | - | 50 | -32.26 |

Qp - Quasi-Peak detector
Ca - CISPR average detection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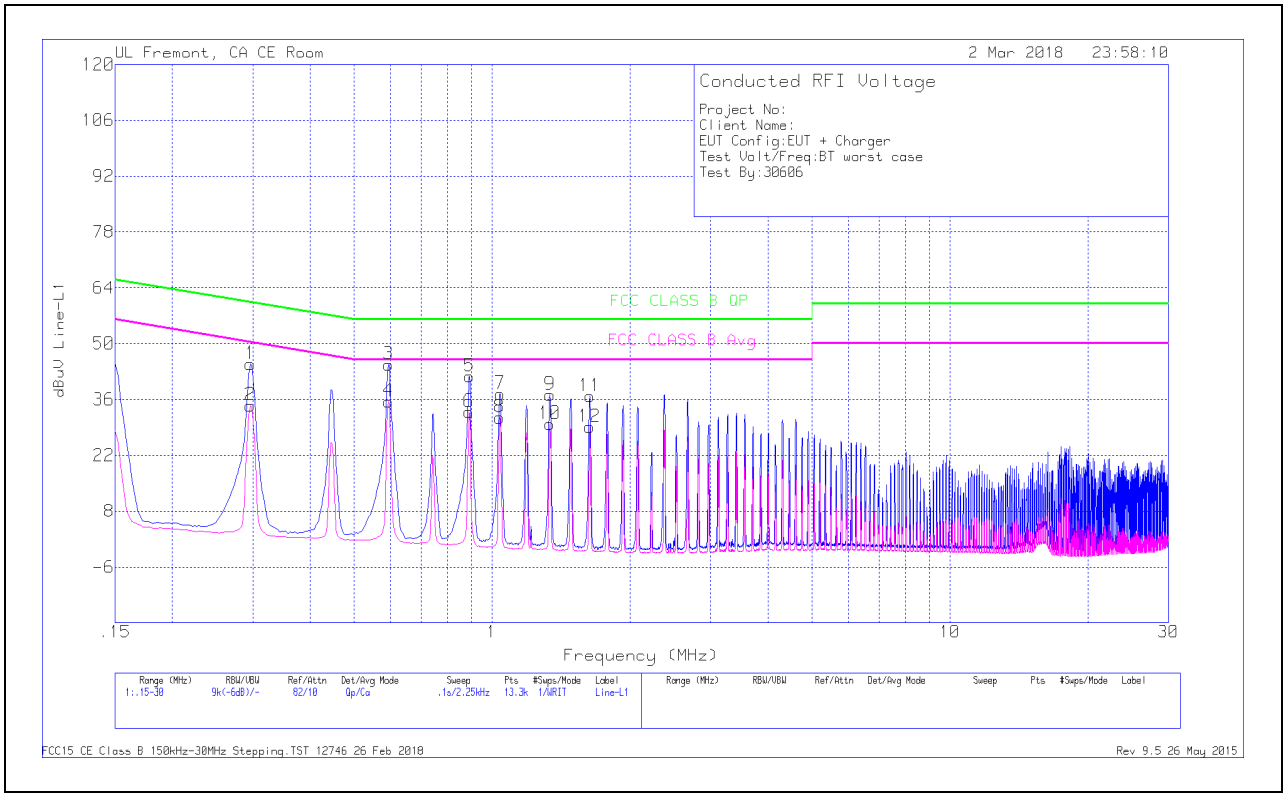
## 10.1.2. AC Power Line Norm

### LINE 1 RESULTS




Range 1: Line-L1 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L1 | LC Cables C1&C3 | Corrected Reading dBuV | FCC CLASS B QP | Margin (dB) | FCC CLASS B Avg | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | .29625 | 44.9 | Qp | 0 | 0 | 44.9 | 60.35 | -15.45 | - | - |
| 2 | .29625 | 34.53 | Ca | 0 | 0 | 34.53 | - | - | 50.35 | -15.82 |
| 3 | .59325 | 44.78 | Qp | 0 | 0 | 44.78 | 56 | -11.22 | - | - |
| 4 | .59325 | 35.54 | Ca | 0 | 0 | 35.54 | - | - | 46 | -10.46 |
| 5 | .8925 | 41.81 | Qp | 0 | 0 | 41.81 | 56 | -14.19 | - | - |
| 6 | .89025 | 32.93 | Ca | 0 | 0 | 32.93 | - | - | 46 | -13.07 |
| 7 | 1.041 | 37.31 | Qp | 0 | .1 | 37.41 | 56 | -18.59 | - | - |
| 8 | 1.03875 | 31.38 | Ca | 0 | .1 | 31.48 | - | - | 46 | -14.52 |
| 9 | 1.338 | 37.1 | Qp | 0 | .1 | 37.2 | 56 | -18.8 | - | - |
| 10 | 1.33575 | 29.75 | Ca | 0 | .1 | 29.85 | - | - | 46 | -16.15 |
| 11 | 1.635 | 36.74 | Qp | 0 | .1 | 36.84 | 56 | -19.16 | - | - |
| 12 | 1.63275 | 29 | Ca | 0 | .1 | 29.1 | - | - | 46 | -16.9 |

Qp - Quasi-Peak detector

Ca - CISPR average detection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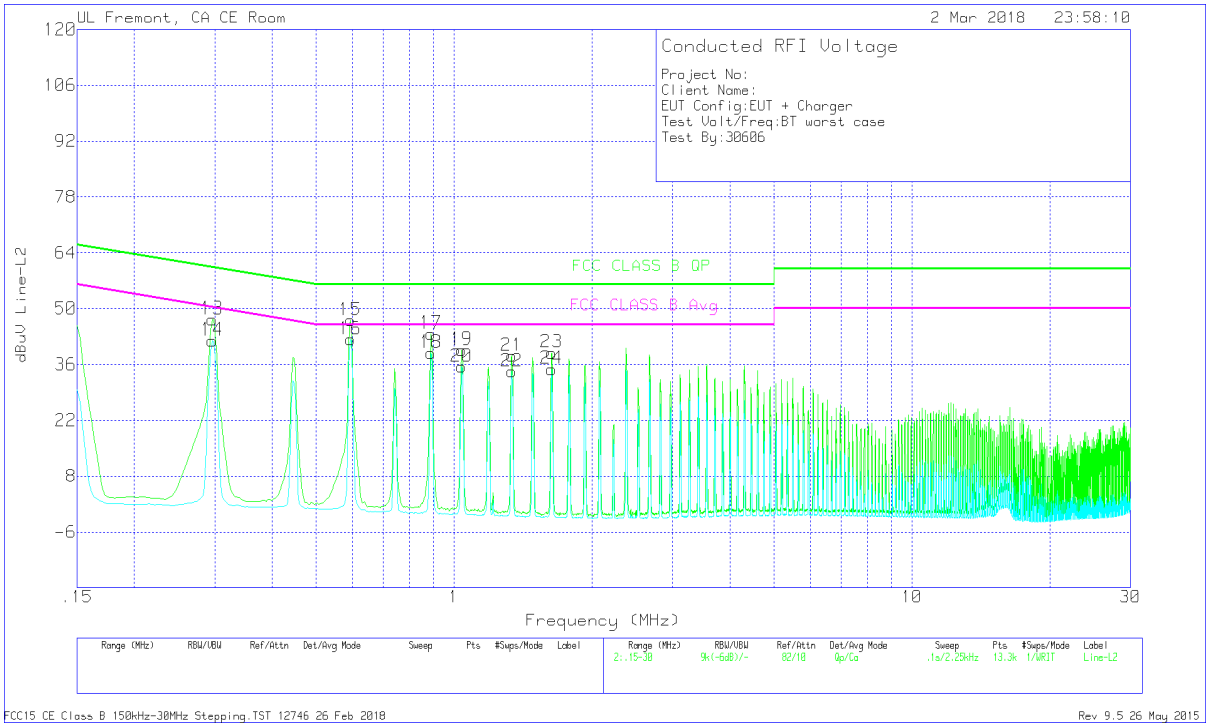
## LINE 2 RESULTS




Range 2: Line-L2 .15 - 30MHz

| Marker | Frequency (MHz) | Meter Reading (dBuV) | Det | LISN L2 | LC Cables C2&C3 | Corrected Reading dBuV | FCC CLASS B QP | Margin (dB) | FCC CLASS B Avg | Margin (dB) |
|---|---|---|---|---|---|---|---|---|---|---|
| 13 | .29625 | 47.32 | Qp | 0 | 0 | 47.32 | 60.35 | -13.03 | - | - |
| 14 | .29625 | 42 | Ca | 0 | 0 | 42 | - | - | 50.35 | -8.35 |
| 15 | .59325 | 47.06 | Qp | 0 | 0 | 47.06 | 56 | -8.94 | - | - |
| 16 | .59325 | 42.27 | Ca | 0 | 0 | 42.27 | - | - | 46 | -3.73 |
| 17 | .89025 | 43.72 | Qp | 0 | 0 | 43.72 | 56 | -12.28 | - | - |
| 18 | .89025 | 38.92 | Ca | 0 | 0 | 38.92 | - | - | 46 | -7.08 |
| 19 | 1.03875 | 39.54 | Qp | 0 | .1 | 39.64 | 56 | -16.36 | - | - |
| 20 | 1.03875 | 35.36 | Ca | 0 | .1 | 35.46 | - | - | 46 | -10.54 |
| 21 | 1.33575 | 38.11 | Qp | 0 | .1 | 38.21 | 56 | -17.79 | - | - |
| 22 | 1.33575 | 34.13 | Ca | 0 | .1 | 34.23 | - | - | 46 | -11.77 |
| 23 | 1.63275 | 38.87 | Qp | 0 | .1 | 38.97 | 56 | -17.03 | - | - |
| 24 | 1.63275 | 34.76 | Ca | 0 | .1 | 34.86 | - | - | 46 | -11.14 |

Qp - Quasi-Peak detector

Ca - CISPR average detection

# END OF REPORT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# 11. SETUP PHOTOS

Please refer to 12204447-EP1V1 for setup photos


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