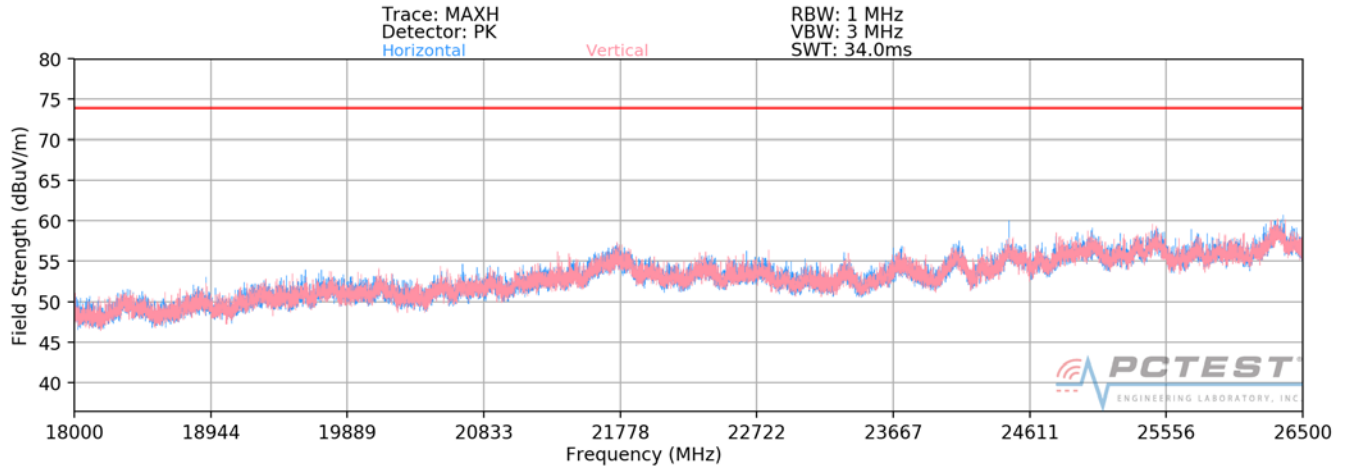
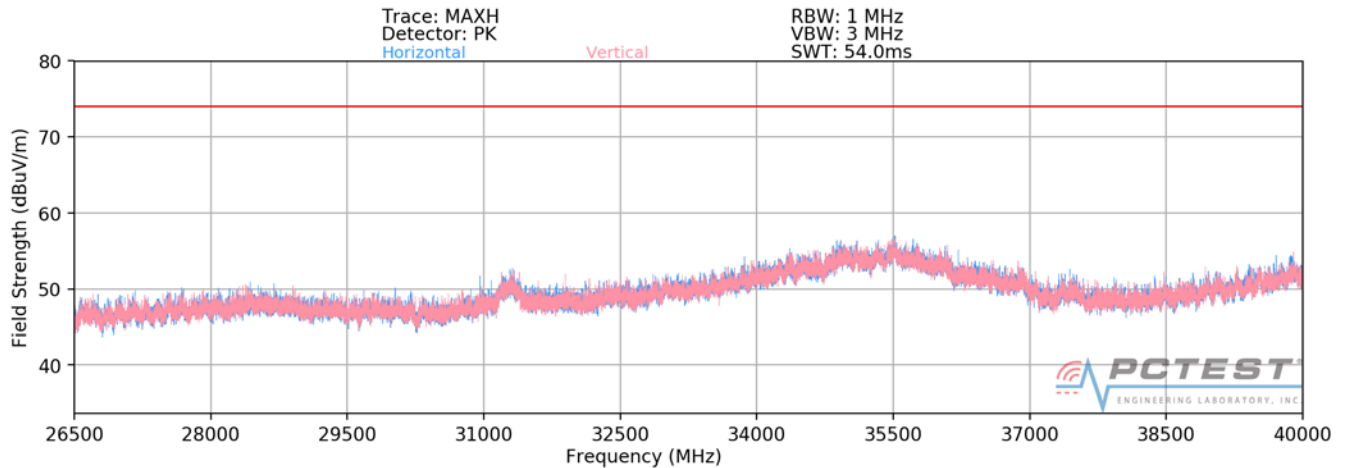


## SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-275. Radiated Spurious Plot above 18GHz - 26.5GHz SISO ANT2 (802.11a)**



**Plot 7-276. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11a)**

|                                         |                                               |                                               |                |                                 |
|-----------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset                 |                | Page 183 of 243                 |

## SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5180MHz  
Channel: 36

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10360.00        | Peak     | V               | 112                 | 334                        | -69.17               | 12.97       | 0.00                            | 50.80                   | 68.20          | -17.40      |
| * 15540.00      | Average  | V               | 168                 | 645                        | -80.86               | 15.88       | 0.00                            | 42.02                   | 53.98          | -11.96      |
| * 15540.00      | Peak     | V               | 168                 | 645                        | -64.61               | 15.88       | 0.00                            | 58.27                   | 73.98          | -15.71      |
| * 20720.00      | Average  | V               | -                   | -                          | -81.43               | 16.92       | -9.54                           | 32.95                   | 53.98          | -21.03      |
| * 20720.00      | Peak     | V               | -                   | -                          | -69.97               | 16.92       | -9.54                           | 44.41                   | 73.98          | -29.57      |
| 25900.00        | Peak     | V               | -                   | -                          | -68.20               | 19.39       | -9.54                           | 48.65                   | 68.20          | -19.55      |

**Table 7-44. Radiated Measurements SISO ANT2**

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5200MHz  
Channel: 40

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10400.00        | Peak     | V               | 199                 | 214                        | -68.39               | 12.44       | 0.00                            | 51.05                   | 68.20          | -17.15      |
| * 15600.00      | Average  | V               | 179                 | 349                        | -80.70               | 15.60       | 0.00                            | 41.90                   | 53.98          | -12.08      |
| * 15600.00      | Peak     | V               | 179                 | 349                        | -64.83               | 15.60       | 0.00                            | 57.77                   | 73.98          | -16.21      |
| * 20800.00      | Average  | V               | -                   | -                          | -81.28               | 17.39       | -9.54                           | 33.56                   | 53.98          | -20.41      |
| * 20800.00      | Peak     | V               | -                   | -                          | -70.12               | 17.39       | -9.54                           | 44.72                   | 73.98          | -29.25      |
| 26000.00        | Peak     | V               | -                   | -                          | -68.12               | 19.98       | -9.54                           | 49.31                   | 68.20          | -18.89      |

**Table 7-45. Radiated Measurements SISO ANT2**

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 184 of 243                 |

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00        | Peak     | V               | 205                 | 195                        | -68.46               | 12.95       | 0.00                            | 51.49                   | 68.20          | -16.71      |
| * 15720.00      | Average  | V               | 114                 | 33                         | -79.24               | 16.00       | 0.00                            | 43.76                   | 53.98          | -10.22      |
| * 15720.00      | Peak     | V               | 114                 | 33                         | -62.54               | 16.00       | 0.00                            | 60.46                   | 73.98          | -13.52      |
| * 20960.00      | Average  | V               | -                   | -                          | -81.26               | 17.29       | -9.54                           | 33.49                   | 53.98          | -20.49      |
| * 20960.00      | Peak     | V               | -                   | -                          | -70.19               | 17.29       | -9.54                           | 44.56                   | 73.98          | -29.42      |
| 26200.00        | Peak     | V               | -                   | -                          | -68.26               | 19.80       | -9.54                           | 49.00                   | 68.20          | -19.20      |

Table 7-46. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5240MHz  
 Channel: 48

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10480.00        | Peak     | V               | 138                 | 120                        | -69.57               | 12.95       | 0.00                            | 50.38                   | 68.20          | -17.82      |
| * 15720.00      | Average  | V               | 158                 | 351                        | -80.28               | 16.00       | 0.00                            | 42.72                   | 53.98          | -11.26      |
| * 15720.00      | Peak     | V               | 158                 | 351                        | -63.28               | 16.00       | 0.00                            | 59.72                   | 73.98          | -14.26      |
| * 20960.00      | Average  | V               | -                   | -                          | -81.58               | 17.39       | -9.54                           | 33.26                   | 53.98          | -20.71      |
| * 20960.00      | Peak     | V               | -                   | -                          | -70.27               | 17.39       | -9.54                           | 44.57                   | 73.98          | -29.40      |
| 26200.00        | Peak     | V               | -                   | -                          | -68.22               | 19.98       | -9.54                           | 49.21                   | 68.20          | -18.99      |

Table 7-47. Radiated Measurements SISO ANT2 with WCP

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 185 of 243                 |

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5260MHz  
 Channel: 52

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10520.00        | Peak     | V               | 284                 | 285                        | -69.11               | 13.43       | 0.00                            | 51.32                   | 68.20          | -16.88      |
| * 15780.00      | Average  | V               | 141                 | 338                        | -81.13               | 15.72       | 0.00                            | 41.59                   | 53.98          | -12.39      |
| * 15780.00      | Peak     | V               | 141                 | 338                        | -65.47               | 15.72       | 0.00                            | 57.25                   | 73.98          | -16.73      |
| * 21040.00      | Average  | V               | -                   | -                          | -81.00               | 17.32       | -9.54                           | 33.78                   | 53.98          | -20.20      |
| * 21040.00      | Peak     | V               | -                   | -                          | -70.08               | 17.32       | -9.54                           | 44.70                   | 73.98          | -29.28      |
| 26300.00        | Peak     | V               | -                   | -                          | -68.51               | 20.12       | -9.54                           | 49.07                   | 68.20          | -19.13      |

**Table 7-48. Radiated Measurements SISO ANT2**

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5280MHz  
 Channel: 56

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00        | Peak     | V               | 220                 | 360                        | -68.71               | 13.44       | 0.00                            | 51.73                   | 68.20          | -16.47      |
| * 15840.00      | Average  | V               | 113                 | 41                         | -79.67               | 15.30       | 0.00                            | 42.63                   | 53.98          | -11.35      |
| * 15840.00      | Peak     | V               | 113                 | 41                         | -64.14               | 15.30       | 0.00                            | 58.16                   | 73.98          | -15.82      |
| * 21120.00      | Average  | V               | -                   | -                          | -81.24               | 17.26       | -9.54                           | 33.48                   | 53.98          | -20.50      |
| * 21120.00      | Peak     | V               | -                   | -                          | -69.82               | 17.26       | -9.54                           | 44.90                   | 73.98          | -29.08      |
| 26400.00        | Peak     | V               | -                   | -                          | -67.41               | 19.67       | -9.54                           | 49.72                   | 68.20          | -18.48      |

**Table 7-49. Radiated Measurements SISO ANT2**

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 186 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5320MHz  
Channel: 64

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 10640.00      | Average  | V               | 216                 | 363                        | -81.88               | 13.14       | 0.00                            | 38.26                   | 53.98          | -15.72      |
| * 10640.00      | Peak     | V               | 216                 | 363                        | -68.39               | 13.14       | 0.00                            | 51.75                   | 73.98          | -22.23      |
| * 15960.00      | Average  | V               | 114                 | 31                         | -80.52               | 16.05       | 0.00                            | 42.53                   | 53.98          | -11.45      |
| * 15960.00      | Peak     | V               | 114                 | 31                         | -63.98               | 16.05       | 0.00                            | 59.07                   | 73.98          | -14.91      |
| * 21280.00      | Average  | V               | -                   | -                          | -80.63               | 17.51       | -9.54                           | 34.34                   | 53.98          | -19.64      |
| * 21280.00      | Peak     | V               | -                   | -                          | -69.46               | 17.51       | -9.54                           | 45.51                   | 73.98          | -28.47      |
| 26600.00        | Peak     | V               | -                   | -                          | -50.15               | 1.44        | -9.54                           | 48.75                   | 68.20          | -19.45      |

Table 7-50. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5280MHz  
Channel: 56

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| 10560.00        | Peak     | V               | 138                 | 239                        | -69.32               | 13.44       | 0.00                            | 51.12                   | 68.20          | -17.08      |
| * 15840.00      | Average  | V               | 147                 | 281                        | -80.28               | 15.30       | 0.00                            | 42.02                   | 53.98          | -11.96      |
| * 15840.00      | Peak     | V               | 147                 | 281                        | -65.88               | 15.30       | 0.00                            | 56.42                   | 73.98          | -17.56      |
| * 21120.00      | Average  | V               | -                   | -                          | -80.96               | 17.26       | -9.54                           | 33.76                   | 53.98          | -20.22      |
| * 21120.00      | Peak     | V               | -                   | -                          | -69.42               | 17.26       | -9.54                           | 45.30                   | 73.98          | -28.68      |
| 26400.00        | Peak     | V               | -                   | -                          | -67.93               | 19.67       | -9.54                           | 49.20                   | 68.20          | -19.00      |

Table 7-51. Radiated Measurements SISO ANT2 with WCP

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 187 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5500MHz  
Channel: 100

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11000.00      | Average  | V               | 332                 | 8                          | -80.34               | 13.50       | 0.00                            | 40.16                   | 53.98          | -13.82      |
| * 11000.00      | Peak     | V               | 332                 | 8                          | -65.86               | 13.50       | 0.00                            | 54.64                   | 73.98          | -19.34      |
| 16500.00        | Peak     | V               | 119                 | 327                        | -68.28               | 16.35       | 0.00                            | 55.07                   | 68.20          | -13.13      |
| 22000.00        | Peak     | V               | -                   | -                          | -69.33               | 18.25       | -9.54                           | 46.38                   | 68.20          | -21.82      |
| 27500.00        | Peak     | V               | -                   | -                          | -49.78               | 0.12        | -9.54                           | 47.80                   | 68.20          | -20.40      |

Table 7-52. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5600MHz  
Channel: 120

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11160.00      | Average  | V               | 333                 | 335                        | -79.98               | 13.26       | 0.00                            | 40.28                   | 53.98          | -13.70      |
| * 11160.00      | Peak     | V               | 333                 | 335                        | -64.19               | 13.26       | 0.00                            | 56.07                   | 73.98          | -17.91      |
| 16740.00        | Peak     | V               | 115                 | 339                        | -66.72               | 17.87       | 0.00                            | 58.15                   | 68.20          | -10.05      |
| * 22320.00      | Average  | V               | -                   | -                          | -80.63               | 19.00       | -9.54                           | 35.83                   | 53.98          | -18.15      |
| * 22320.00      | Peak     | V               | -                   | -                          | -69.92               | 19.00       | -9.54                           | 46.54                   | 73.98          | -27.44      |
| 27900.00        | Peak     | V               | -                   | -                          | -49.96               | 0.74        | -9.54                           | 48.23                   | 68.20          | -19.97      |

Table 7-53. Radiated Measurements SISO ANT2

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 188 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00      | Average  | V               | 310                 | 336                        | -81.91               | 15.19       | 0.00                            | 40.28                   | 53.98          | -13.70      |
| * 11440.00      | Peak     | V               | 310                 | 336                        | -68.44               | 15.19       | 0.00                            | 53.75                   | 73.98          | -20.23      |
| 17160.00        | Peak     | V               | 117                 | 326                        | -67.46               | 19.08       | 0.00                            | 58.62                   | 68.20          | -9.58       |
| * 22880.00      | Average  | V               | -                   | -                          | -81.39               | 18.40       | -9.54                           | 34.47                   | 53.98          | -19.51      |
| * 22880.00      | Peak     | V               | -                   | -                          | -69.74               | 18.40       | -9.54                           | 46.12                   | 73.98          | -27.86      |
| 28600.00        | Peak     | V               | -                   | -                          | -49.12               | 0.41        | -9.54                           | 48.75                   | 68.20          | -19.45      |

Table 7-54. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5720MHz  
Channel: 144

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11440.00      | Average  | V               | 156                 | 197                        | -82.68               | 15.19       | 0.00                            | 39.51                   | 53.98          | -14.47      |
| * 11440.00      | Peak     | V               | 156                 | 197                        | -69.32               | 15.19       | 0.00                            | 52.87                   | 73.98          | -21.11      |
| 17160.00        | Peak     | V               | 139                 | 153                        | -69.08               | 19.08       | 0.00                            | 57.00                   | 68.20          | -11.20      |
| * 22880.00      | Average  | V               | -                   | -                          | -81.52               | 19.00       | -9.54                           | 34.94                   | 53.98          | -19.04      |
| * 22880.00      | Peak     | V               | -                   | -                          | -70.12               | 19.00       | -9.54                           | 46.34                   | 73.98          | -27.64      |
| 28600.00        | Peak     | V               | -                   | -                          | -49.81               | 0.74        | -9.54                           | 48.38                   | 68.20          | -19.82      |

Table 7-55. Radiated Measurements SISO ANT2 with WCP

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 189 of 243                 |

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5745MHz  
 Channel: 149

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11490.00      | Average  | V               | 137                 | 170                        | -80.98               | 15.31       | 0.00                            | 41.33                   | 53.98          | -12.65      |
| * 11490.00      | Peak     | V               | 137                 | 170                        | -68.82               | 15.31       | 0.00                            | 53.49                   | 73.98          | -20.49      |
| 17235.00        | Peak     | V               | 112                 | 321                        | -66.99               | 19.82       | 0.00                            | 59.83                   | 68.20          | -8.37       |
| * 22980.00      | Average  | V               | -                   | -                          | -81.53               | 17.92       | -9.54                           | 33.85                   | 53.98          | -20.13      |
| * 22980.00      | Peak     | V               | -                   | -                          | -69.17               | 17.92       | -9.54                           | 46.21                   | 73.98          | -27.77      |
| 28725.00        | Peak     | V               | -                   | -                          | -48.37               | 0.67        | -9.54                           | 49.76                   | 68.20          | -18.44      |

Table 7-56. Radiated Measurements SISO ANT2

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5785MHz  
 Channel: 157

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00      | Average  | V               | 400                 | 8                          | -80.19               | 15.04       | 0.00                            | 41.85                   | 53.98          | -12.13      |
| * 11570.00      | Peak     | V               | 400                 | 8                          | -67.37               | 15.04       | 0.00                            | 54.67                   | 73.98          | -19.31      |
| 17355.00        | Peak     | V               | 116                 | 321                        | -69.27               | 23.45       | 0.00                            | 61.18                   | 68.20          | -7.02       |
| 23140.00        | Peak     | V               | -                   | -                          | -70.02               | 17.92       | -9.54                           | 45.36                   | 68.20          | -22.84      |
| 28925.00        | Peak     | V               | -                   | -                          | -48.05               | 0.67        | -9.54                           | 50.08                   | 68.20          | -18.12      |

Table 7-57. Radiated Measurements SISO ANT2

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 190 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11650.00      | Average  | V               | 195                 | 10                         | -79.81               | 15.42       | 0.00                            | 42.61                   | 53.98          | -11.37      |
| * 11650.00      | Peak     | V               | 195                 | 10                         | -65.67               | 15.42       | 0.00                            | 56.75                   | 73.98          | -17.23      |
| 17475.00        | Peak     | V               | 115                 | 330                        | -68.39               | 21.84       | 0.00                            | 60.45                   | 68.20          | -7.75       |
| 23300.00        | Peak     | V               | -                   | -                          | -69.65               | 18.77       | -9.54                           | 46.58                   | 68.20          | -21.62      |
| 29125.00        | Peak     | V               | -                   | -                          | -48.83               | -0.12       | -9.54                           | 48.51                   | 68.20          | -19.69      |

Table 7-58. Radiated Measurements SISO ANT2

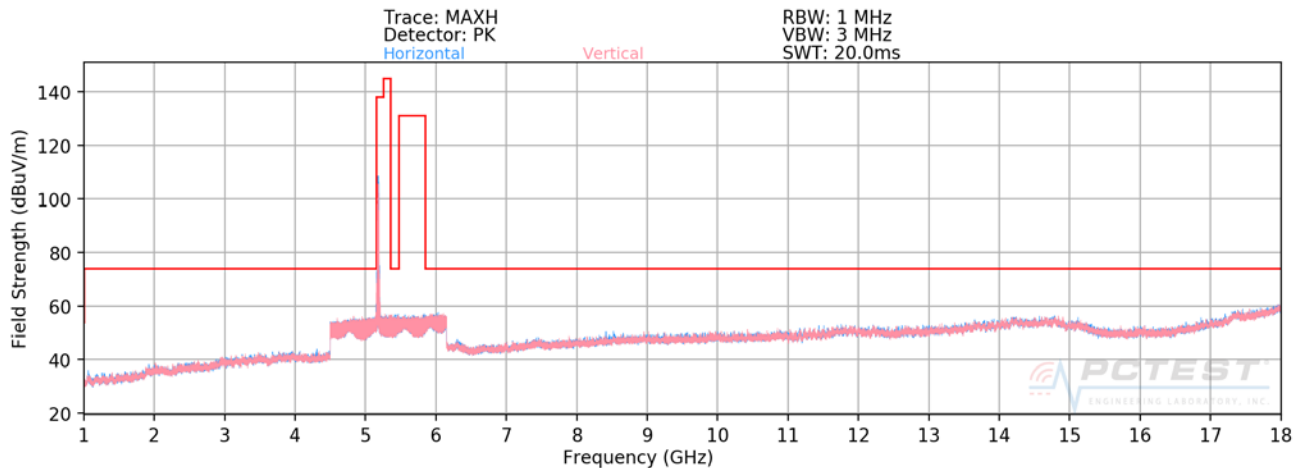
Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 1 & 3 Meters  
Operating Frequency: 5785MHz  
Channel: 157

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Distance Correction Factor [dB] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|---------------------------------|-------------------------|----------------|-------------|
| * 11570.00      | Average  | V               | 156                 | 59                         | -81.68               | 15.04       | 0.00                            | 40.36                   | 53.98          | -13.62      |
| * 11570.00      | Peak     | V               | 156                 | 59                         | -69.28               | 15.04       | 0.00                            | 52.76                   | 73.98          | -21.22      |
| 17355.00        | Peak     | V               | 238                 | 157                        | -70.37               | 23.45       | 0.00                            | 60.08                   | 68.20          | -8.12       |
| 23140.00        | Peak     | V               | -                   | -                          | -71.37               | 17.92       | -9.54                           | 44.01                   | 68.20          | -24.19      |
| 28925.00        | Peak     | V               | -                   | -                          | -48.68               | 0.67        | -9.54                           | 49.45                   | 68.20          | -18.75      |

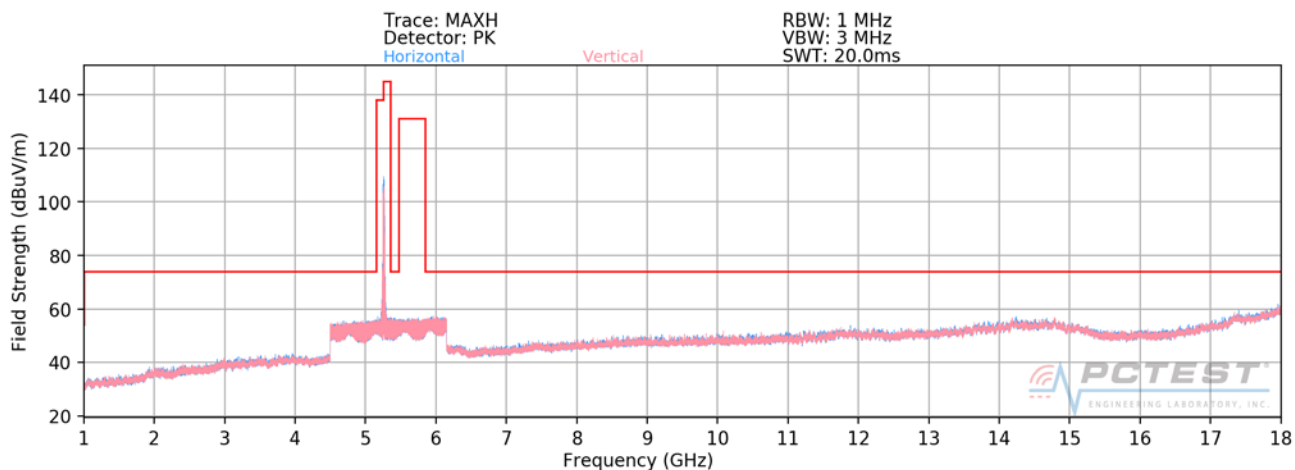
Table 7-59. Radiated Measurements SISO ANT2 with WCP

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 191 of 243                 |

### 6.6.3 MIMO/CDD Radiated Spurious Emission Measurements

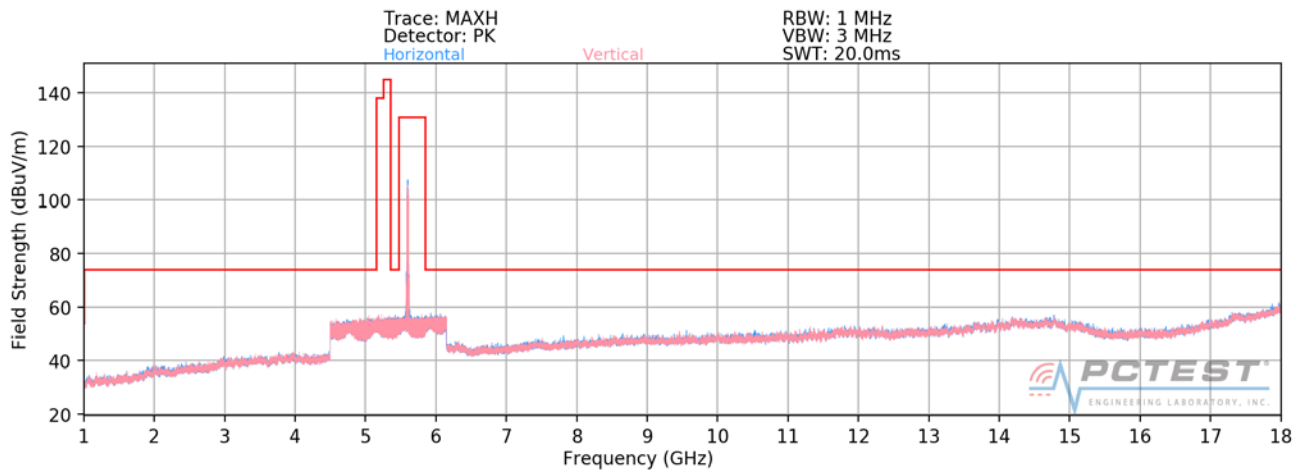


**Plot 7-277. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U1 Ch. 40)**

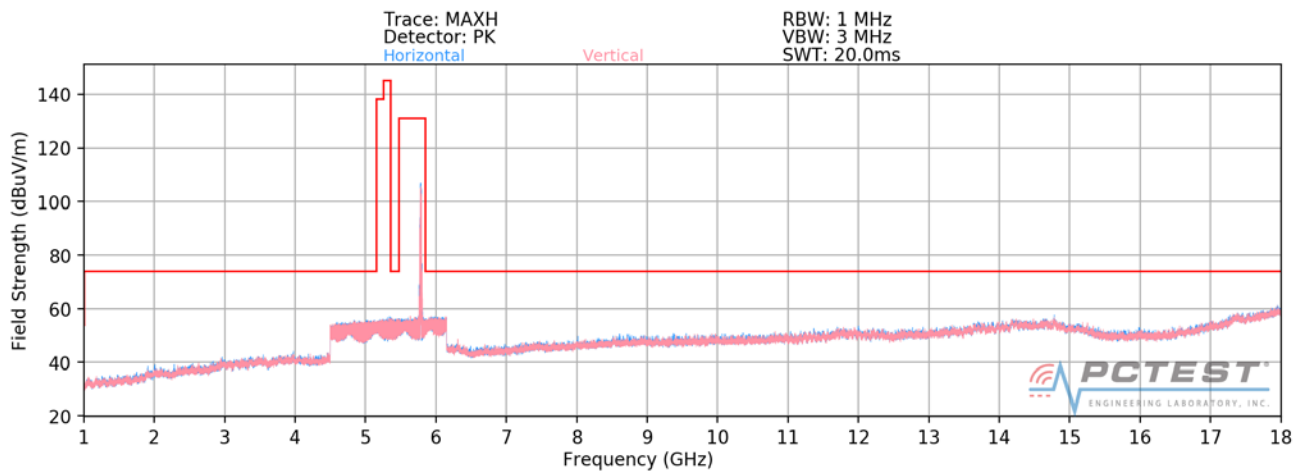


**Plot 7-278. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2A Ch. 56)**

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 192 of 243                 |



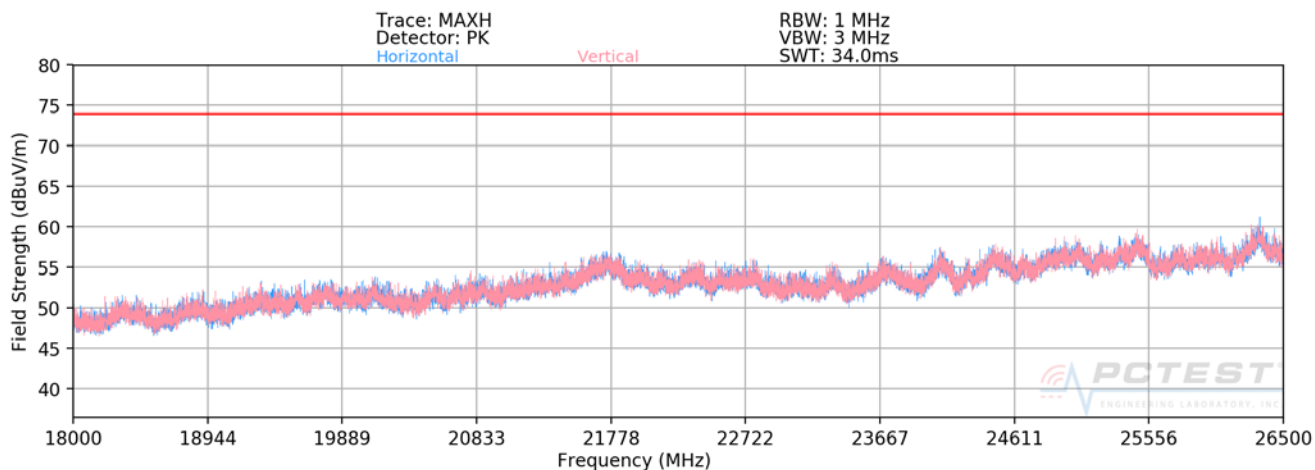
**Plot 7-279. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U2C Ch. 120)**



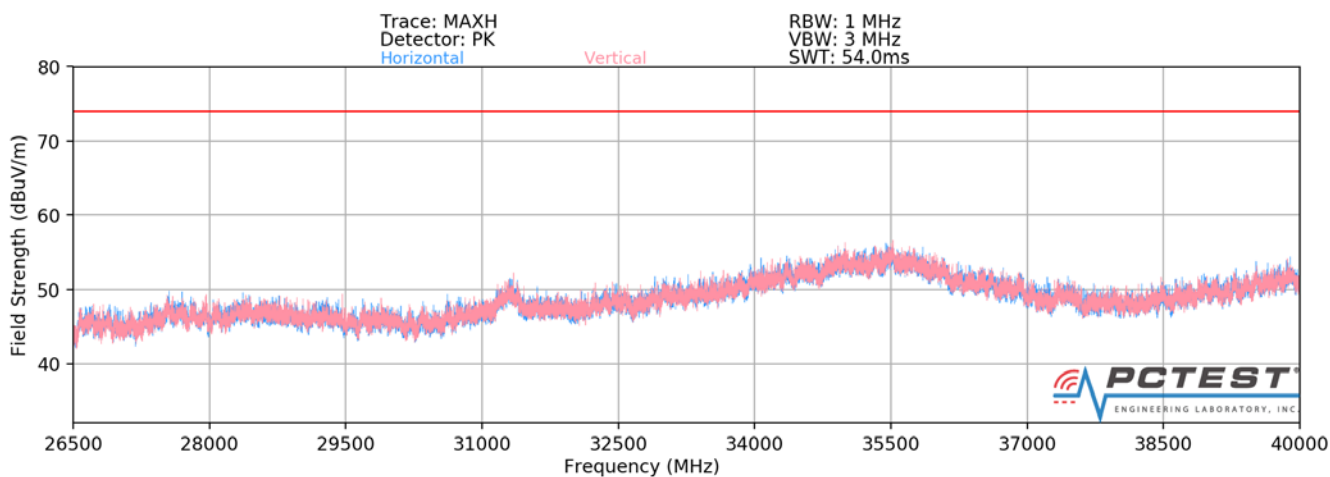
**Plot 7-280. Radiated Spurious Plot above 1GHz MIMO/CDD (802.11a – U3 Ch. 157)**

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 193 of 243                 |

## MIMO/CDD Radiated Spurious Emissions Measurements (Above 18GHz)



**Plot 7-281. Radiated Spurious Plot above 18GHz - 26.5GHz MIMO/CDD (802.11a)**



**Plot 7-282. Radiated Spurious Plot 26.5GHz - 40GHz MIMO/CDD (802.11a)**

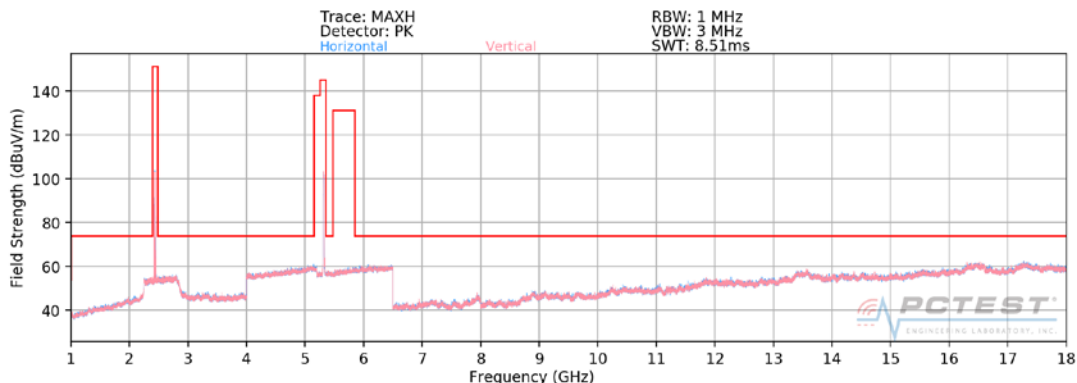
|                                         |                                               |                                               |                |                                 |
|-----------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset                 |                | Page 194 of 243                 |

## 6.6.4 Simultaneous Tx Radiated Spurious Emissions Measurements

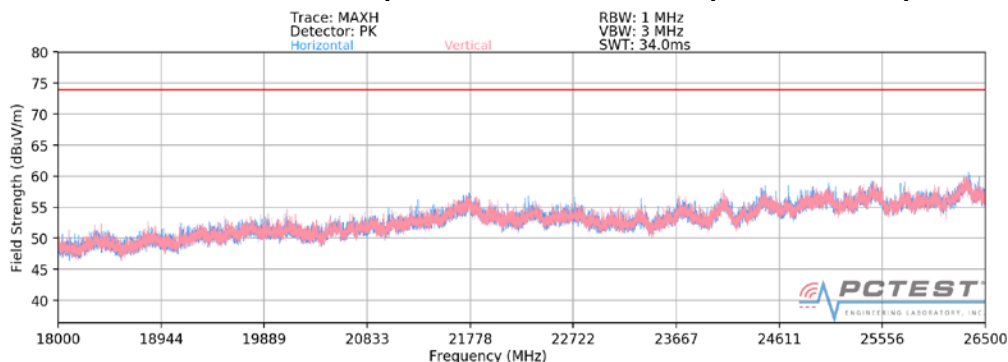
§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

| Description               | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna                   | 1                | 2              |
| Channel                   | 6                | 165            |
| Operating Frequency (MHz) | 2437             | 5825           |
| Data Rate (Mbps)          | 1Mbps            | MCS0           |
| Mode                      | 802.11b          | 802.11ac       |

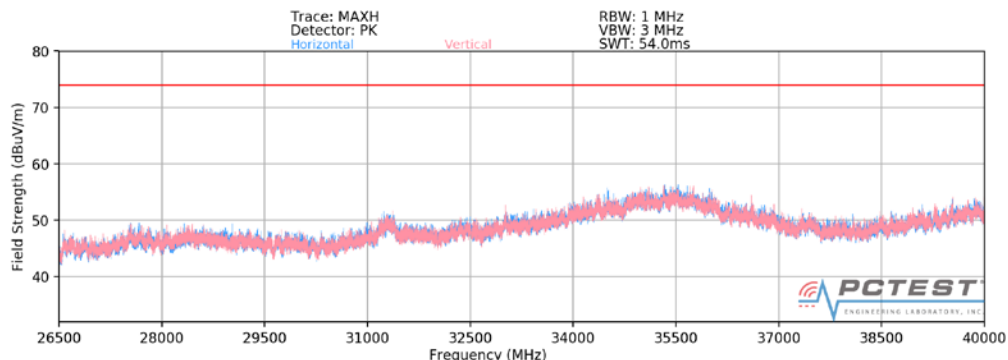
Table 7-60. Config-1 (ANT1 2.4GHz & ANT2 5GHz)



Plot 7-283. Radiated Spurious Plot above 1GHz (2.4GHz – 5GHz)



Plot 7-284. Radiated Spurious Plot 18GHz – 26.5GHz (2.4GHz – 5GHz)

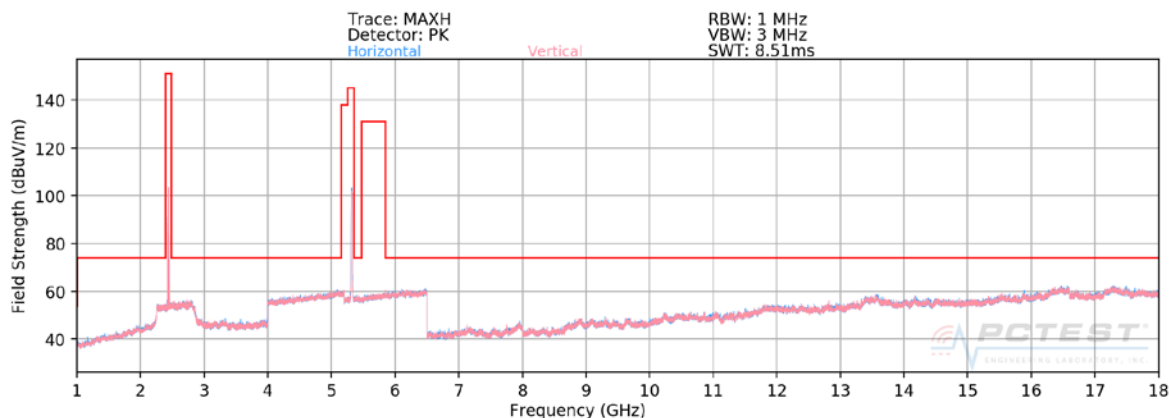


Plot 7-285. Radiated Spurious Plot above 26.5GHz (2.4GHz – 5GHz)

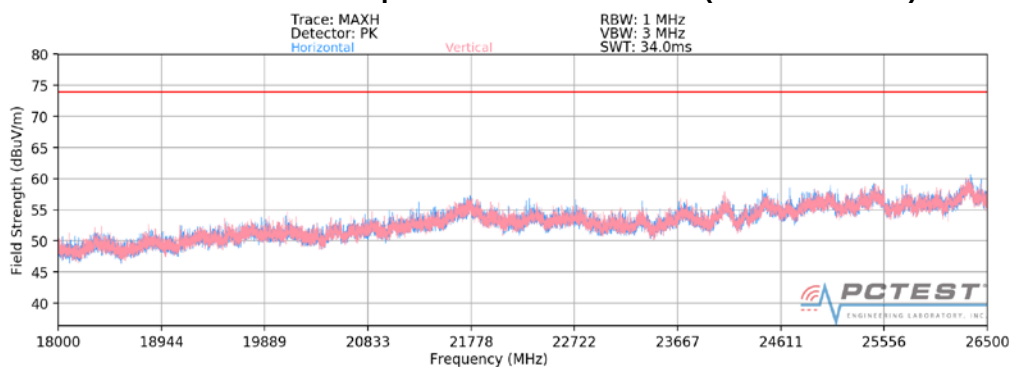
|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 195 of 243                 |

| Description               | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna                   | 2                | 1              |
| Channel                   | 6                | 144            |
| Operating Frequency (MHz) | 2437             | 5720           |
| Data Rate (Mbps)          | 1Mbps            | MCS0           |
| Mode                      | 802.11b          | 802.11ac       |

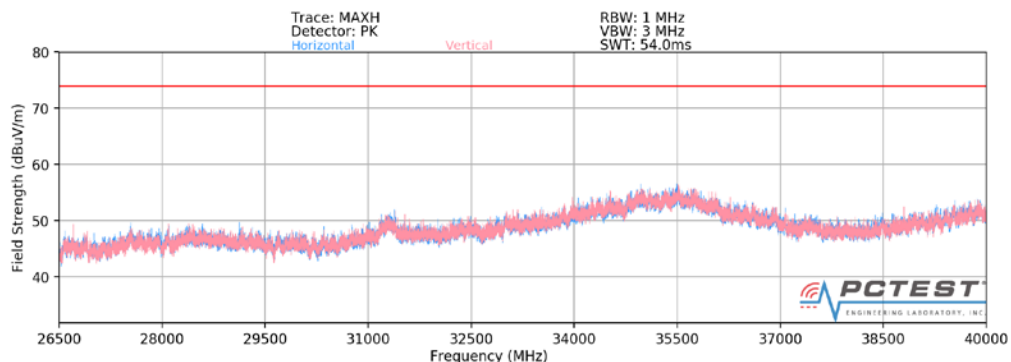
**Table 7-61. Config-2 (ANT1 5GHz & ANT2 2.4GHz)**



**Plot 7-286. Radiated Spurious Plot above 1GHz (5GHz - 2.4 GHz)**



**Plot 7-287. Radiated Spurious Plot 18GHz - 26.5GHz (5GHz - 2.4 GHz)**

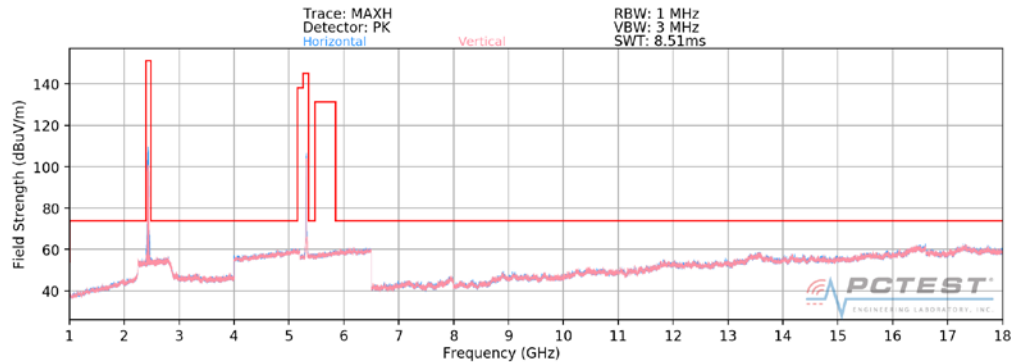


**Plot 7-288. Radiated Spurious Plot above 26.5GHz (5GHz - 2.4 GHz)**

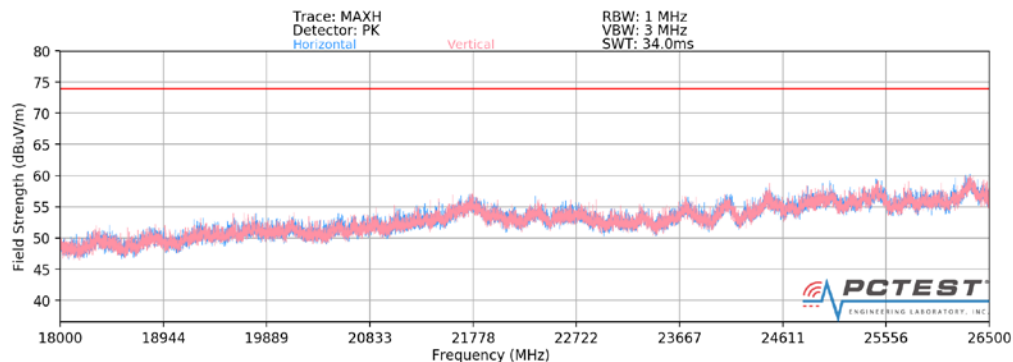
|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 196 of 243                 |

| Description               | 2.4 GHz Emission | 5 GHz Emission |
|---------------------------|------------------|----------------|
| Antenna                   | 1, 2             | 1, 2           |
| Channel                   | 1                | 144            |
| Operating Frequency (MHz) | 2412             | 5720           |
| Data Rate (Mbps)          | MCS0             | MCS8           |
| Mode                      | 802.11n          | 802.11ac       |

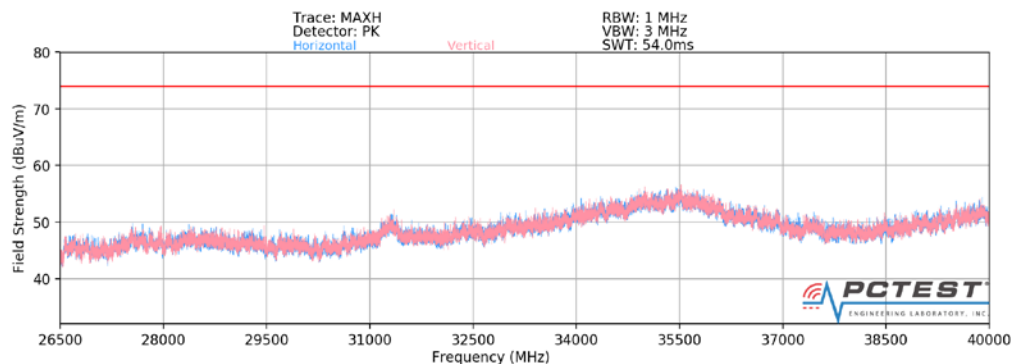
**Table 7-62. Config-3 (ANT1 MIMO & ANT2 MIMO)**



**Plot 7-289. Radiated Spurious Plot above 1GHz (Dual Band Simult. Tx)**



**Plot 7-290. Radiated Spurious Plot 18GHz – 26.5GHz (Dual Band Simult. Tx)**



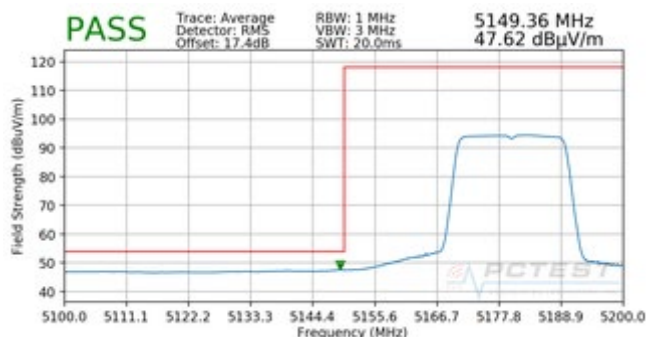
**Plot 7-291. Radiated Spurious Plot above 26.5GHz (Dual Band Simult. Tx)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 197 of 243                 |

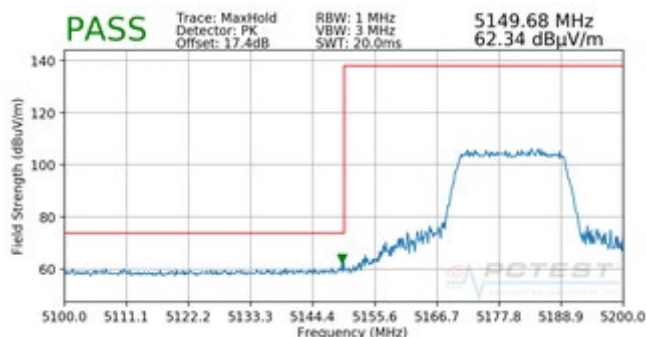
## 6.6.5 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |

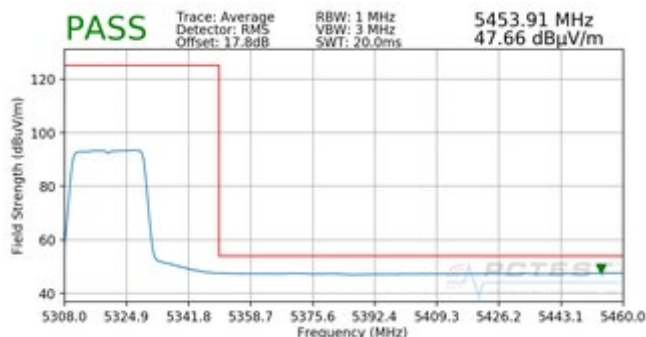


Plot 7-292. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)

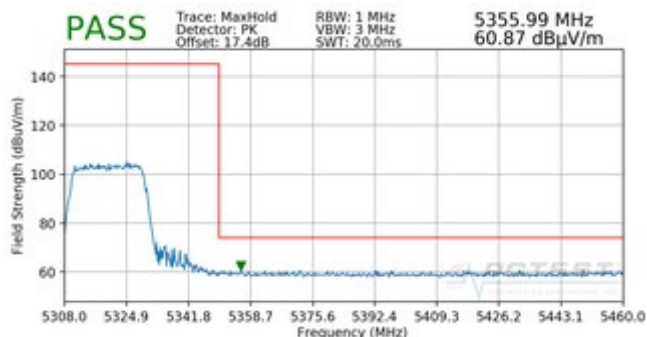


Plot 7-293. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |



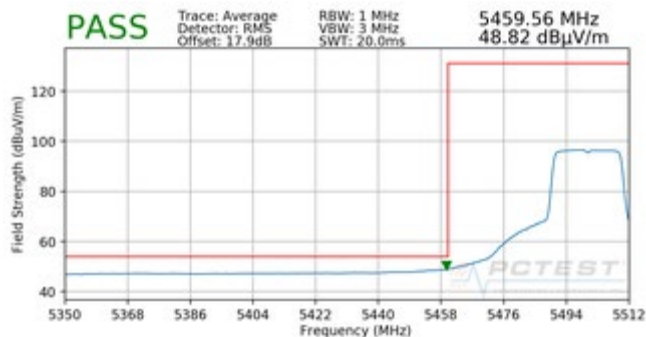
Plot 7-294. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)



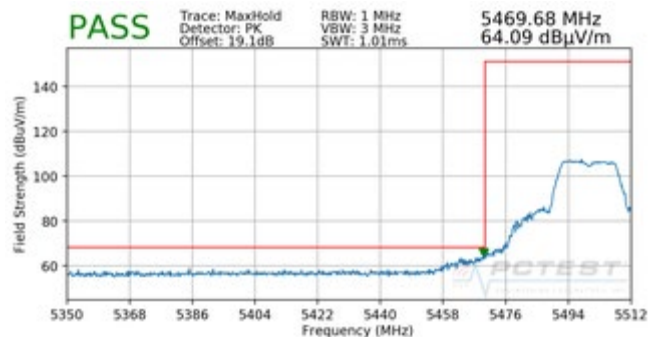
Plot 7-295. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 198 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5500MHz  |
| Channel:                  | 100      |

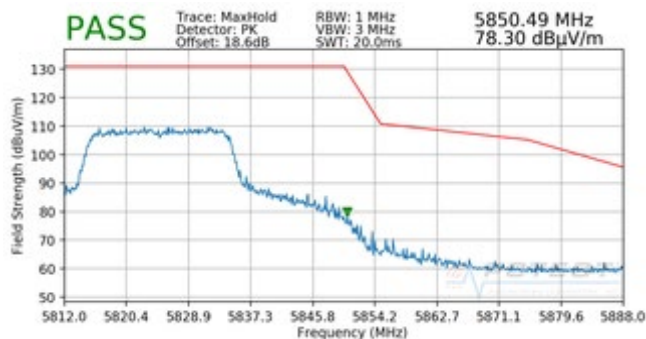


**Plot 7-296. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-297. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

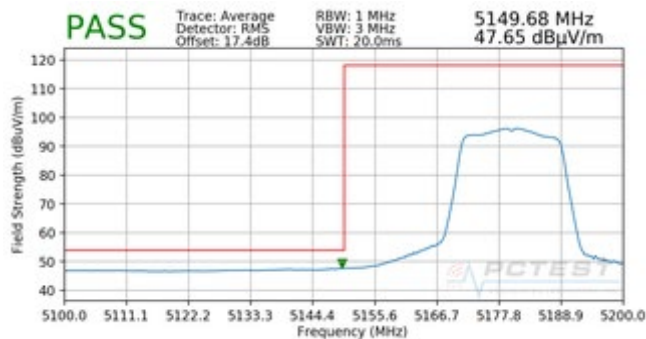
|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5825MHz  |
| Channel:                  | 165      |



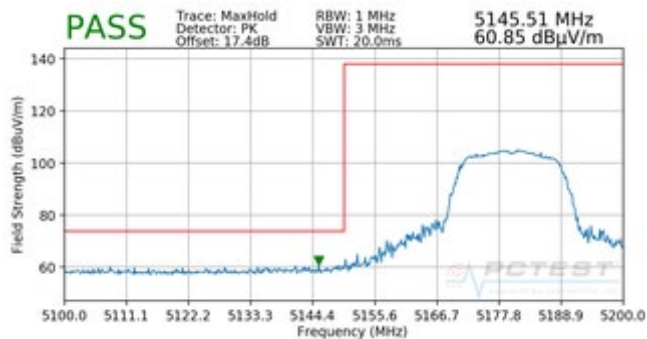
**Plot 7-298. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

|                                         |                                                                                                                                                                                                                     |                               |                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                 | EUT Type:<br>Portable Handset | Page 199 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |



**Plot 7-299. Radiated Band Edge Plot SISO ANT1  
(Average – WCP)**



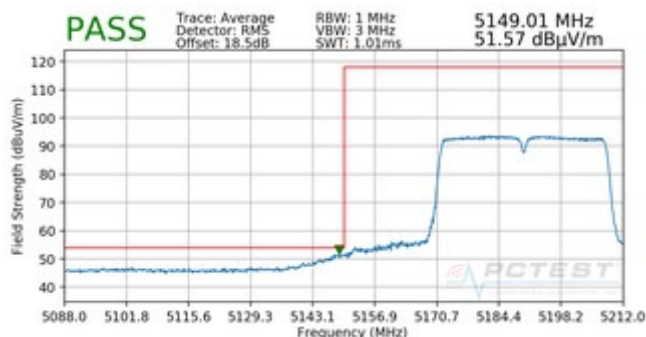
**Plot 7-300. Radiated Band Edge Plot SISO ANT1  
(Peak – WCP)**

|                                         |                                                                                                                                                                                                                         |                               |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 200 of 243                 |

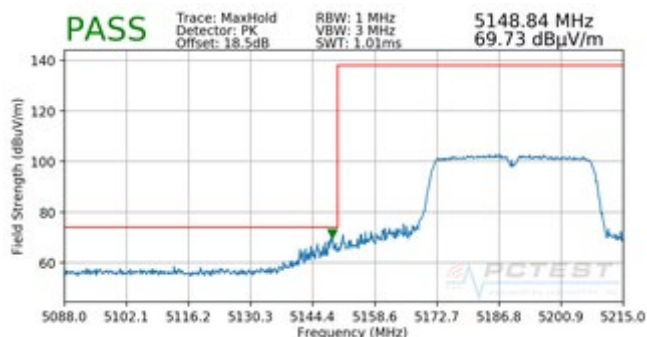
## 6.6.6 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5190MHz  |
| Channel:                  | 38       |

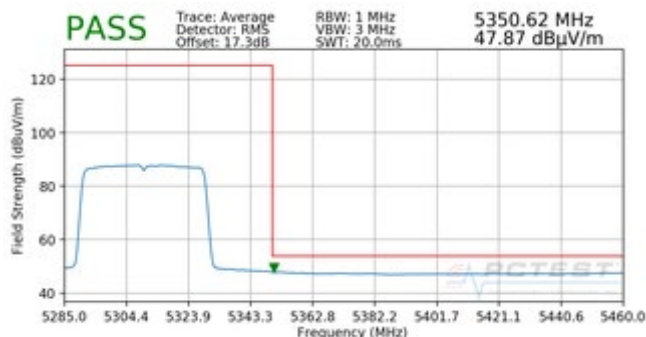


**Plot 7-301. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)**

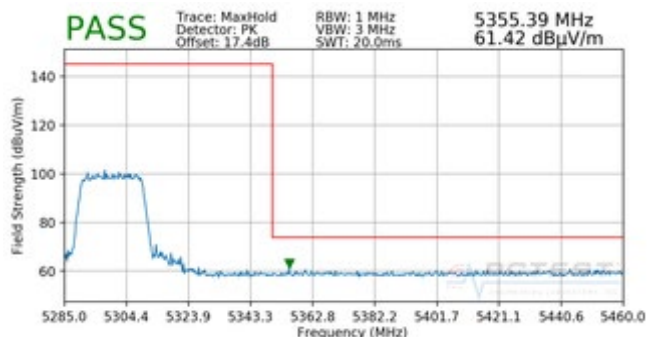


**Plot 7-302. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5310MHz  |
| Channel:                  | 62       |



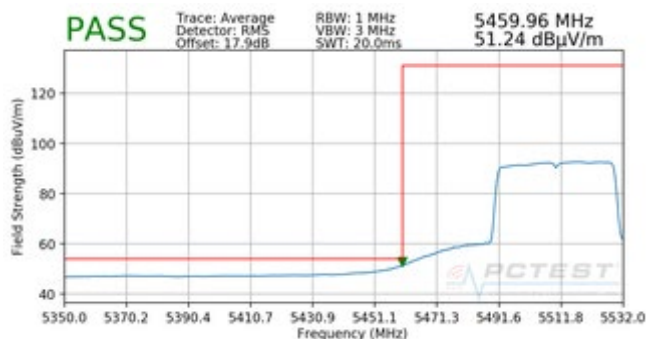
**Plot 7-303. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)**



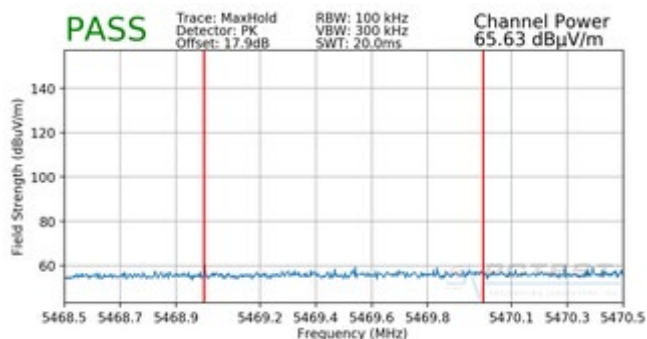
**Plot 7-304. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 201 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5510MHz  
Channel: 102

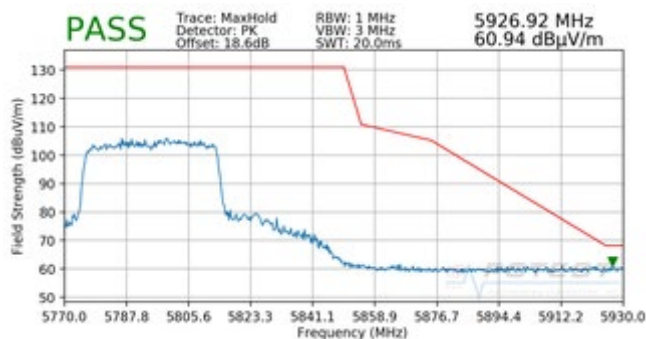


**Plot 7-305. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C)**



**Plot 7-306. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C)**

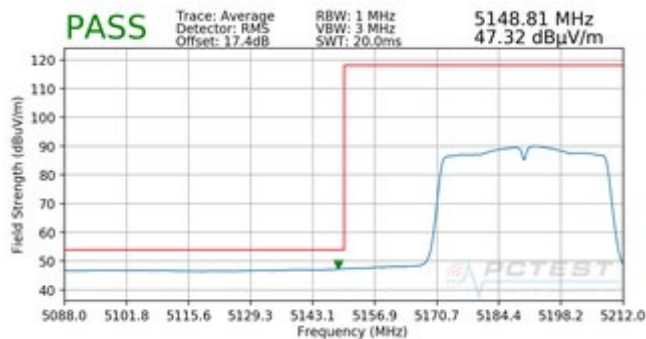
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5795MHz  
Channel: 159



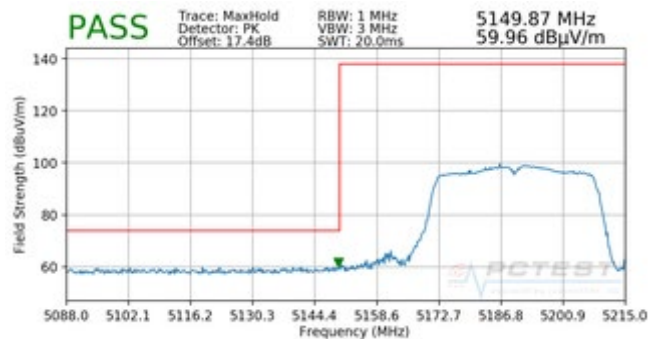
**Plot 7-307. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 202 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5190MHz  |
| Channel:                  | 38       |



**Plot 7-308. Radiated Band Edge Plot SISO ANT1 (Average – WCP)**



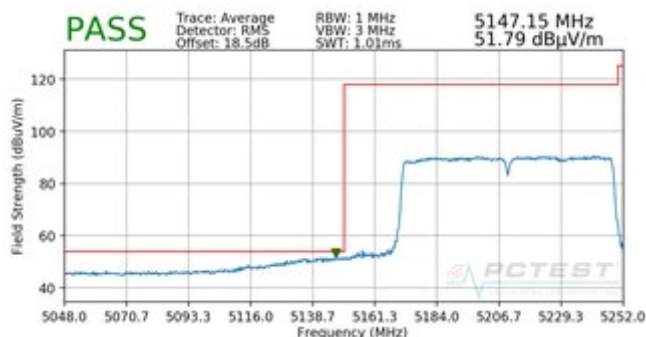
**Plot 7-309. Radiated Band Edge Plot SISO ANT1 (Peak – WCP)**

|                                         |                                                                                                                                                                                                                     |                               |                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                 | EUT Type:<br>Portable Handset | Page 203 of 243                 |

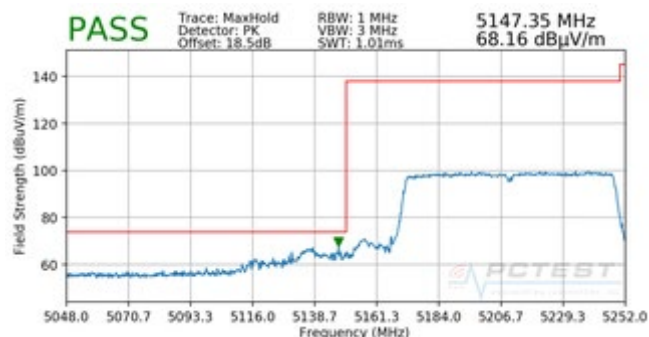
## 6.6.7 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

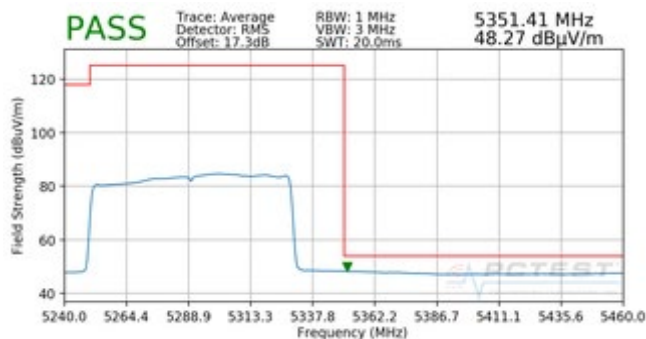


**Plot 7-310. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1)**

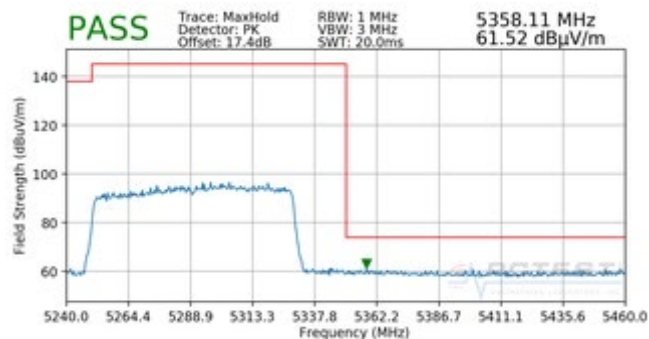


**Plot 7-311. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



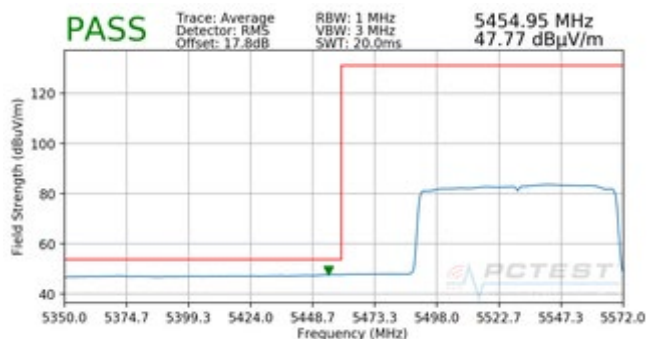
**Plot 7-312. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A)**



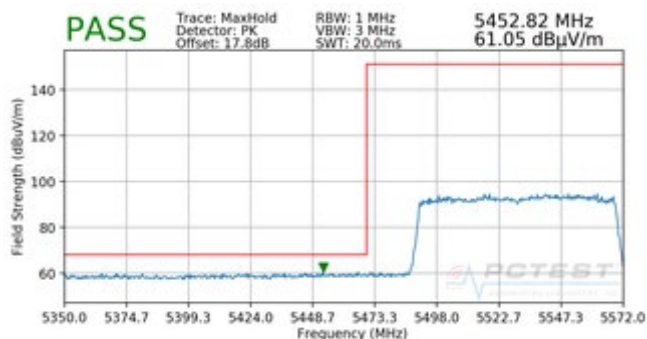
**Plot 7-313. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 204 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106

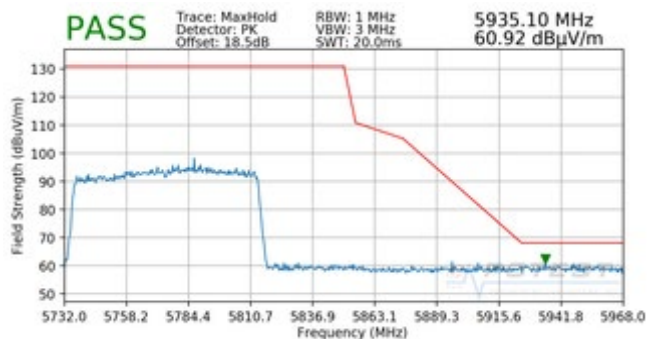


**Plot 7-314. Radiated Lower Band Edge Plot SISO ANT1 (Average - UNII Band 2C)**



**Plot 7-315. Radiated Lower Band Edge Plot SISO ANT1 (Peak - UNII Band 2C)**

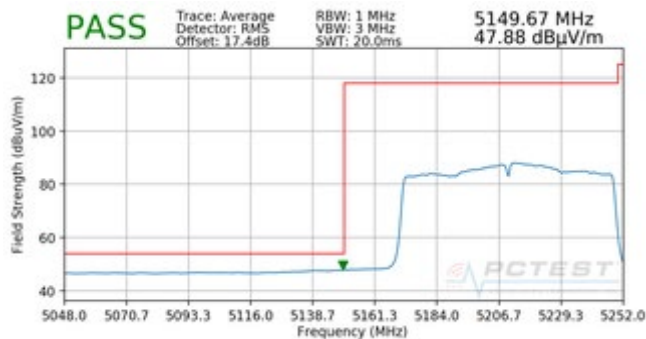
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



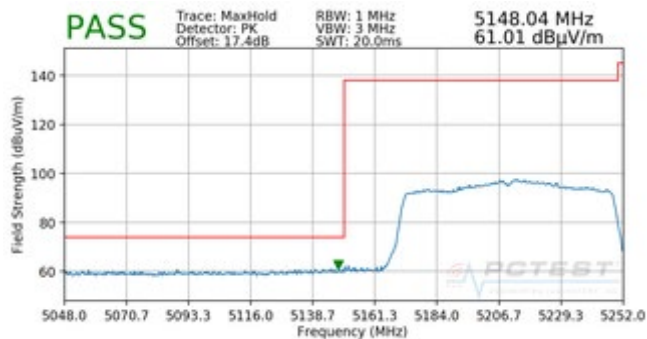
**Plot 7-316. Radiated Upper Band Edge Plot SISO ANT1 (Peak - UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 205 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |



**Plot 7-317. Radiated Band Edge Plot SISO ANT1  
(Average – WCP)**



**Plot 7-318. Radiated Band Edge Plot SISO ANT1  
(Peak – WCP)**

|                                         |                                               |                               |  |                                 |
|-----------------------------------------|-----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset |  | Page 206 of 243                 |

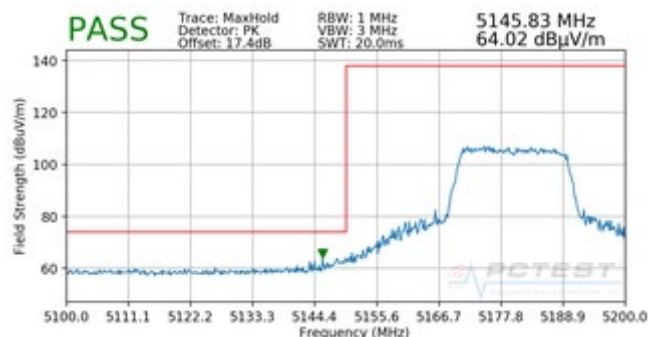
## 6.6.8 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |

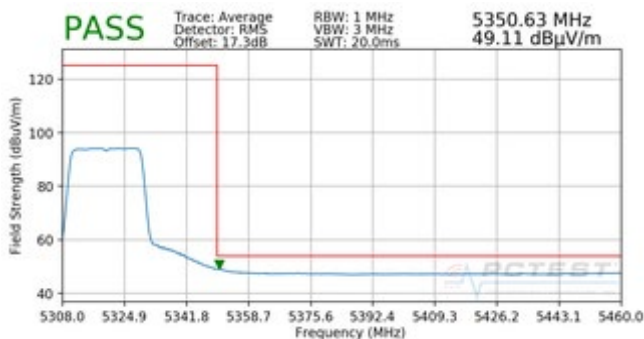


**Plot 7-319. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

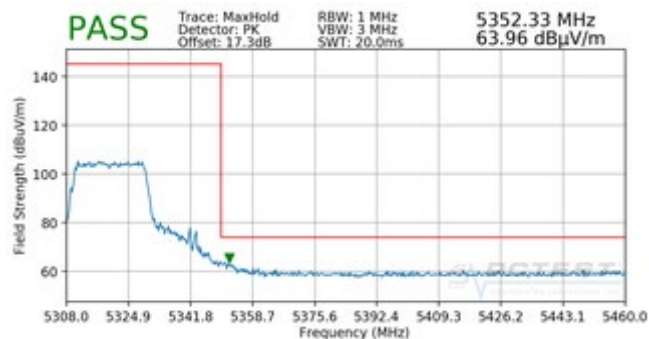


**Plot 7-320. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |



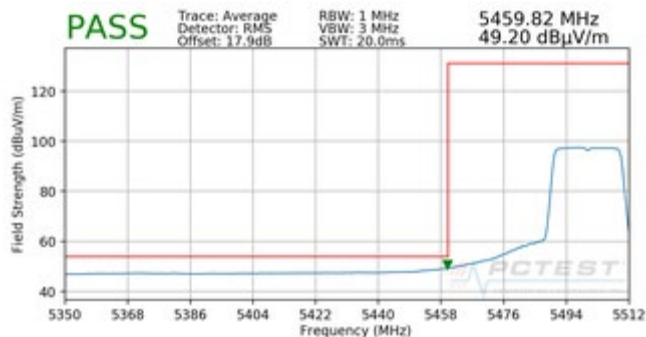
**Plot 7-321. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



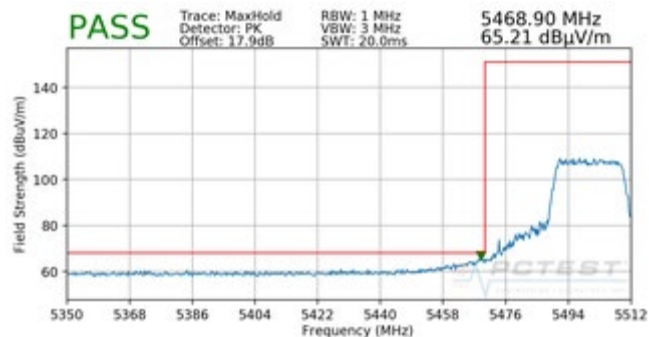
**Plot 7-322. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 207 of 243                 |

Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5500MHz  
Channel: 100

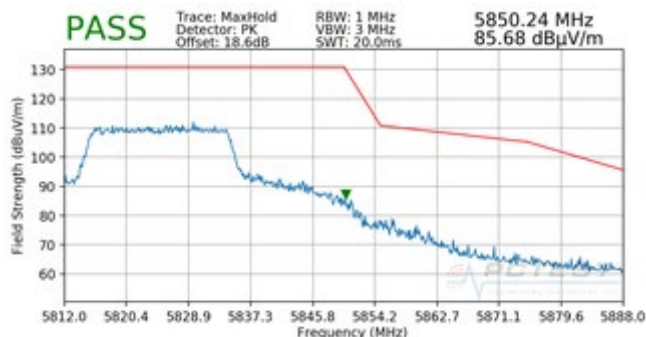


**Plot 7-323. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-324. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

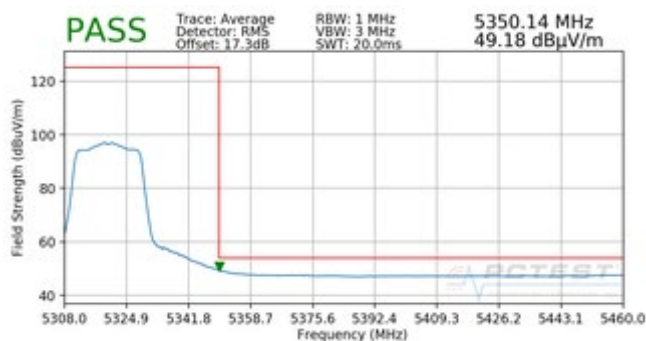
Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165



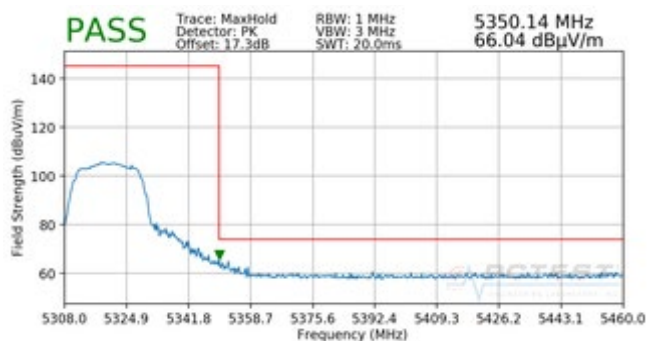
**Plot 7-325. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 208 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |



**Plot 7-326. Radiated Band Edge Plot SISO ANT2  
(Average – WCP)**



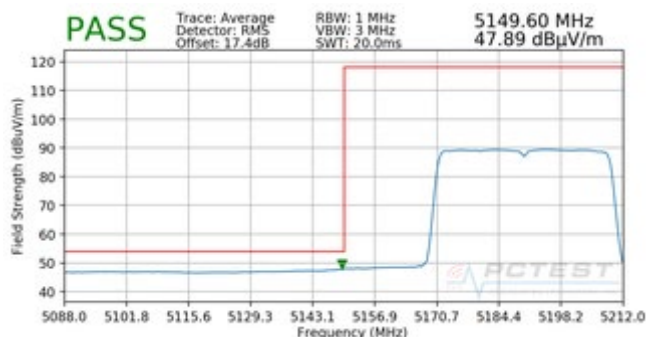
**Plot 7-327. Radiated Band Edge Plot SISO ANT2  
(Peak – WCP)**

|                                         |                                               |                               |  |                                 |
|-----------------------------------------|-----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset |  | Page 209 of 243                 |

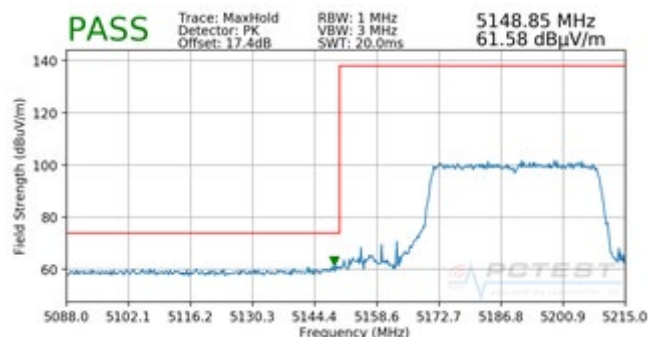
## 6.6.9 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5190MHz  |
| Channel:                  | 38       |

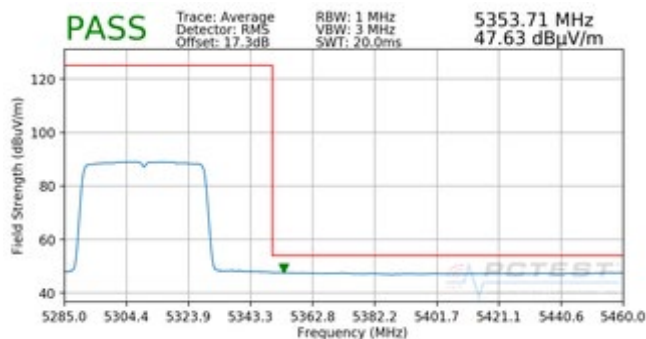


**Plot 7-328. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

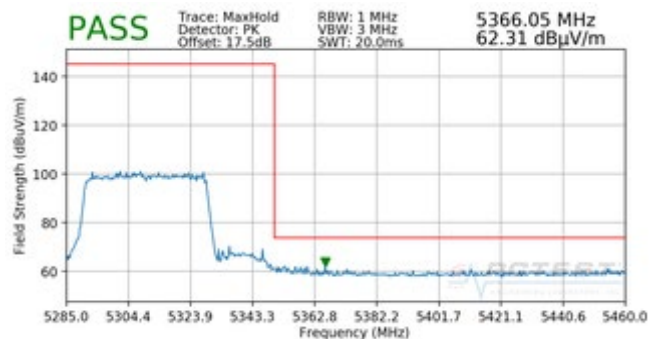


**Plot 7-329. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5310MHz  |
| Channel:                  | 62       |



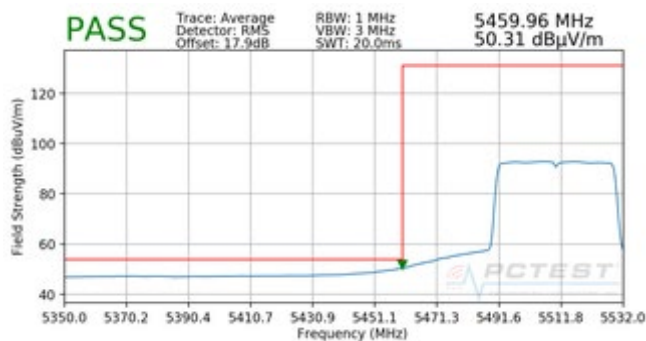
**Plot 7-330. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



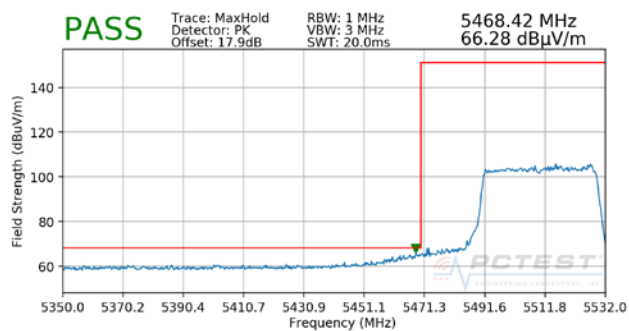
**Plot 7-331. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 210 of 243                 |

Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5510MHz  
Channel: 102

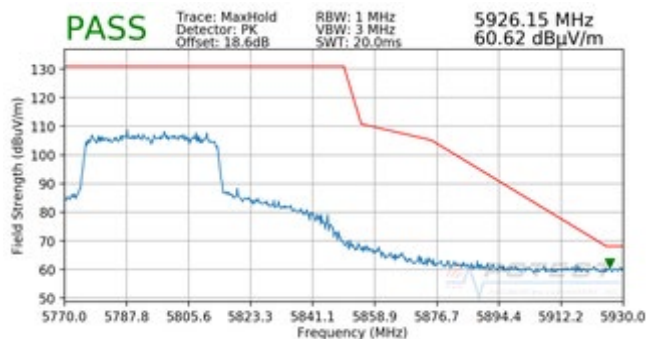


**Plot 7-332. Radiated Lower Band Edge Plot SISO ANT2 (Average - UNII Band 2C)**



**Plot 7-333. Radiated Lower Band Edge Plot SISO ANT2 (Peak - UNII Band 2C)**

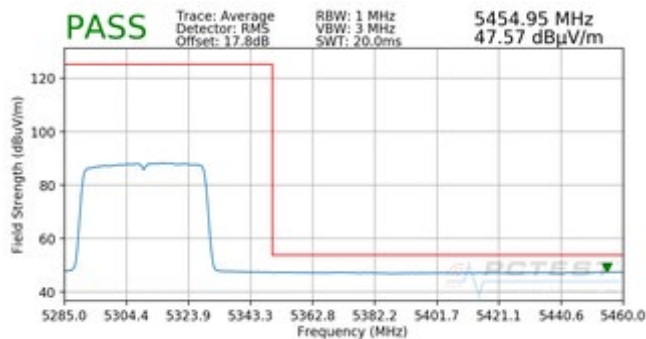
Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5795MHz  
Channel: 159



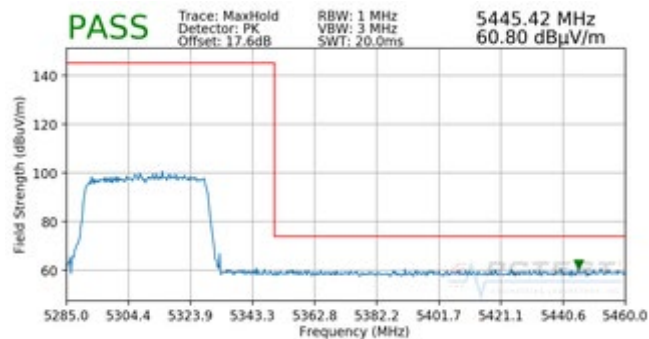
**Plot 7-334. Radiated Upper Band Edge Plot SISO ANT2 (Peak - UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 211 of 243                 |

Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5310MHz  
Channel: 62



**Plot 7-335. Radiated Band Edge Plot SISO ANT2  
(Average – WCP)**



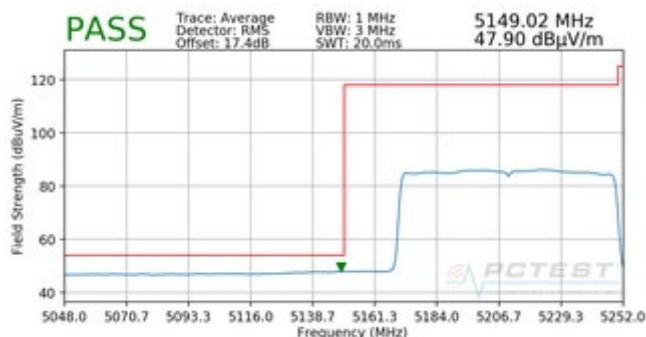
**Plot 7-336. Radiated Band Edge Plot SISO ANT2  
(Peak – WCP)**

|                                         |                                               |                               |  |                                 |
|-----------------------------------------|-----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset |  | Page 212 of 243                 |

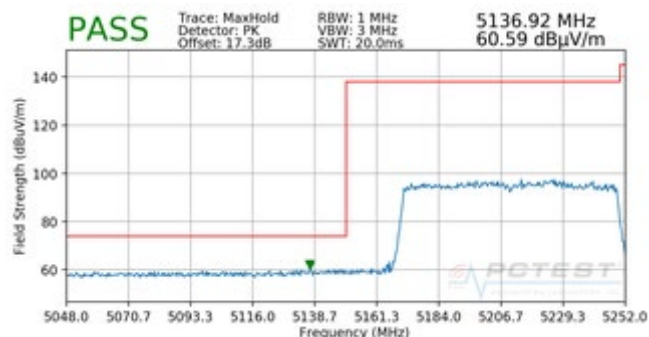
## 6.6.10 SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

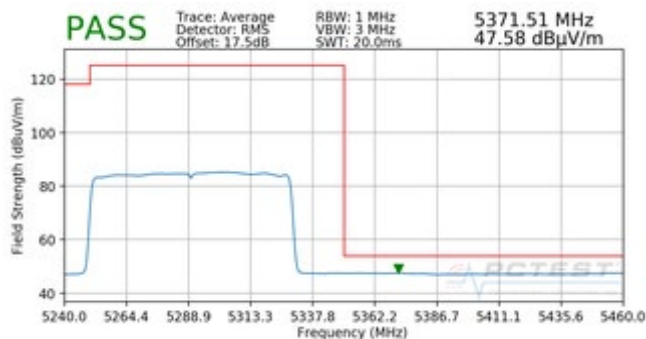


**Plot 7-337. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1)**

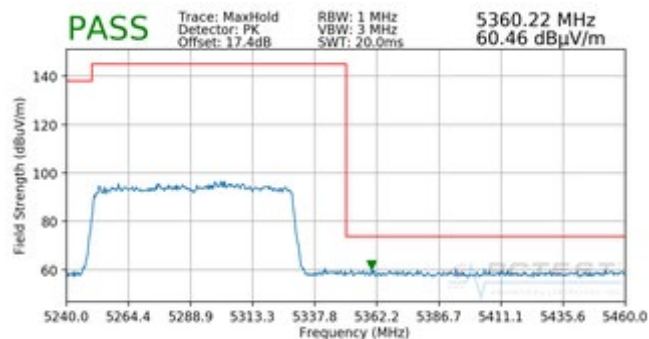


**Plot 7-338. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



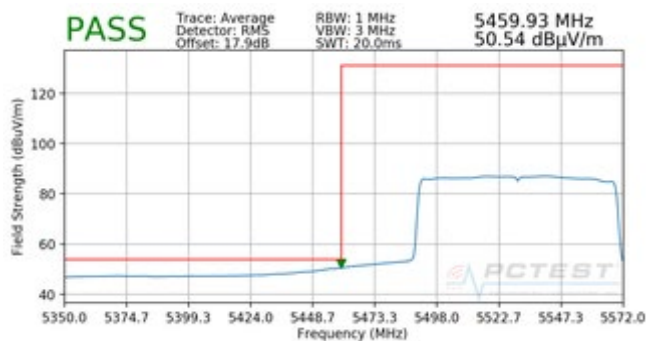
**Plot 7-339. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A)**



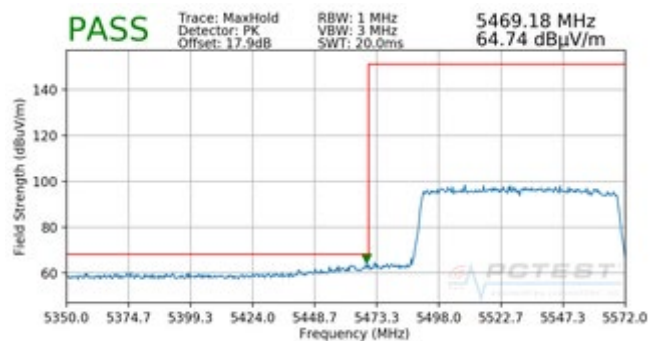
**Plot 7-340. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 213 of 243                 |

Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106

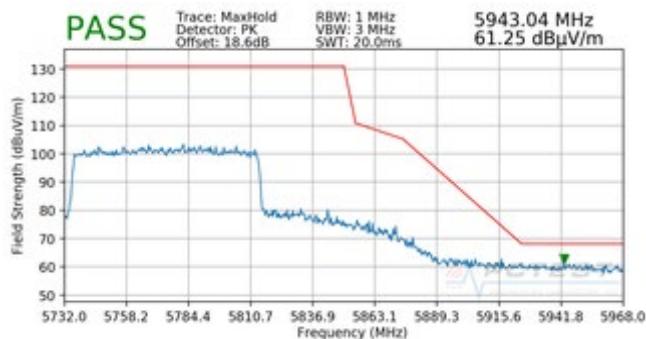


**Plot 7-341. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C)**



**Plot 7-342. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C)**

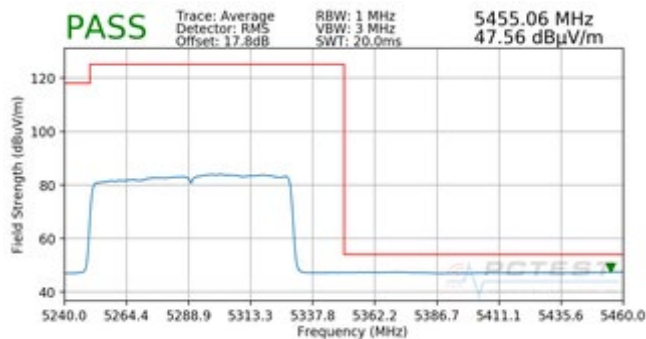
Worst Case Mode: 802.1ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



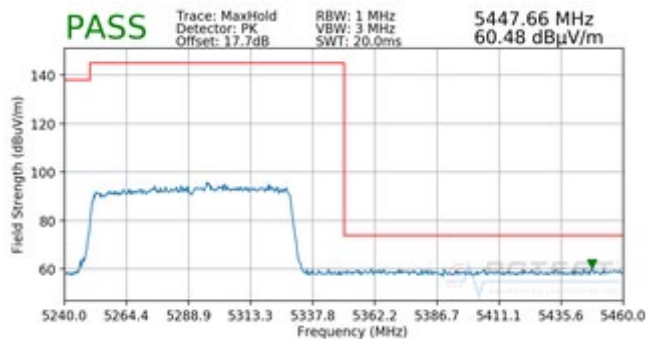
**Plot 7-343. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3)**

|                                         |                                                                                                                                                                                                                         |                               |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 214 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.1ax  |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



**Plot 7-344. Radiated Band Edge Plot SISO ANT2 (Average – WCP)**



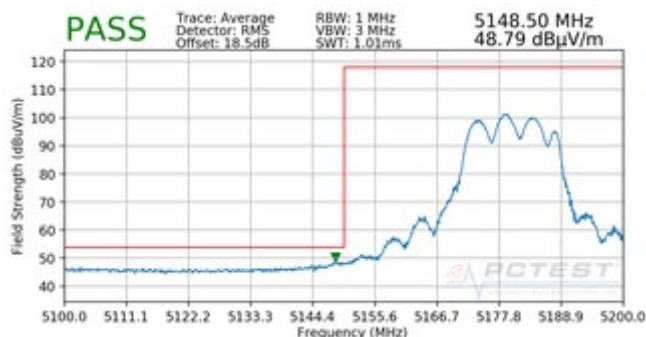
**Plot 7-345. Radiated Band Edge Plot SISO ANT2 (Peak – WCP)**

|                                         |                                           |                               |                                 |
|-----------------------------------------|-------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019       | EUT Type:<br>Portable Handset | Page 215 of 243                 |

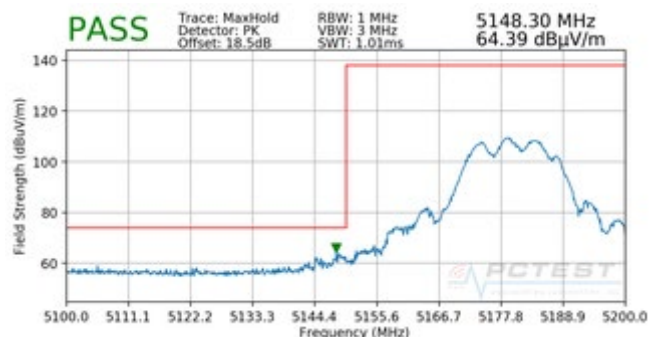
## 6.6.11 CDD Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11a  |
| Worst Case Transfer Rate: | 6Mbps    |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |

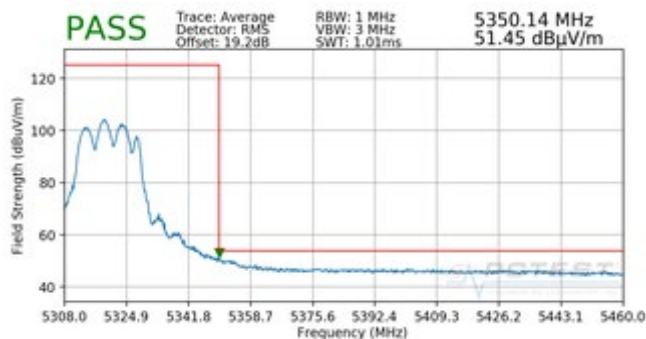


**Plot 7-346. Radiated Lower Band Edge Plot MIMO  
(Average – UNII Band 1)**

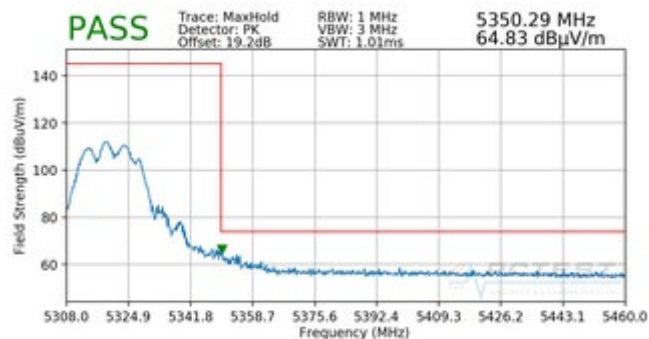


**Plot 7-347. Radiated Lower Band Edge Plot MIMO  
(Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11a  |
| Worst Case Transfer Rate: | 6Mbps    |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |



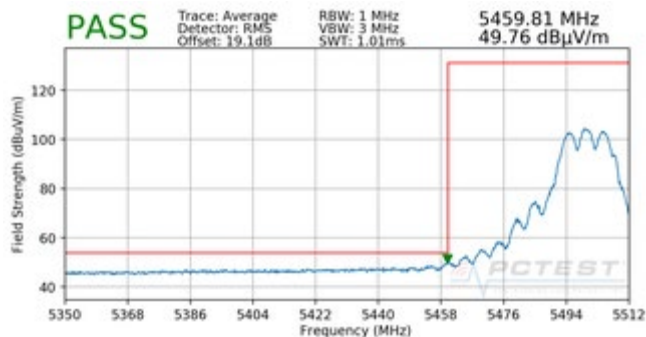
**Plot 7-348. Radiated Upper Band Edge Plot MIMO  
(Average – UNII Band 2A)**



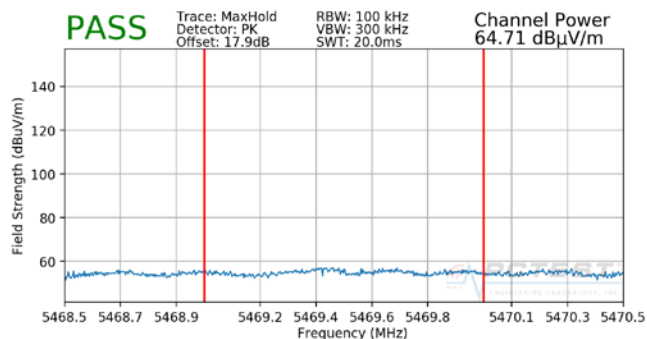
**Plot 7-349. Radiated Upper Band Edge Plot MIMO  
(Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 216 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 5500MHz  
Channel: 100

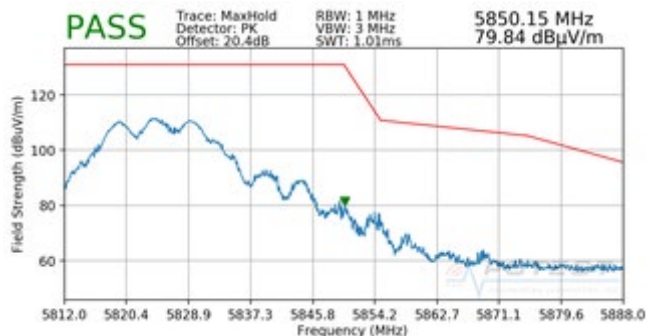


**Plot 7-350. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-351. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

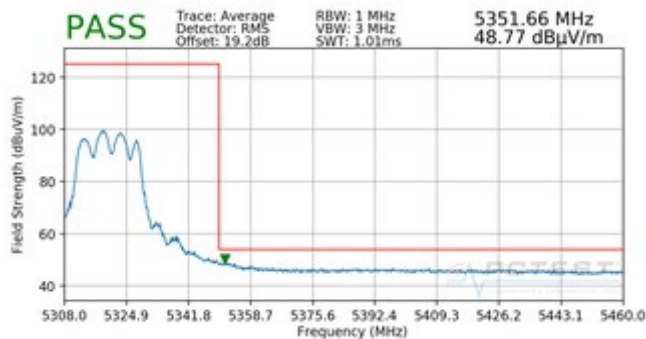
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165



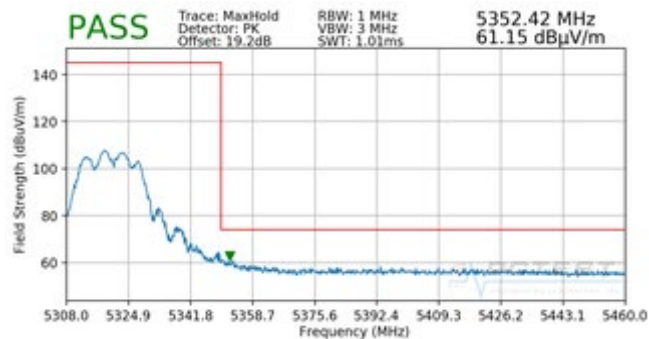
**Plot 7-352. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                         |                                                                                                                                                                                                                     |                               |                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                 | EUT Type:<br>Portable Handset | Page 217 of 243                 |

Worst Case Mode: 802.11a  
Worst Case Transfer Rate: 6Mbps  
Distance of Measurements: 3 Meters  
Operating Frequency: 5320MHz  
Channel: 64



**Plot 7-353. Radiated Band Edge Plot MIMO (Average - WCP)**



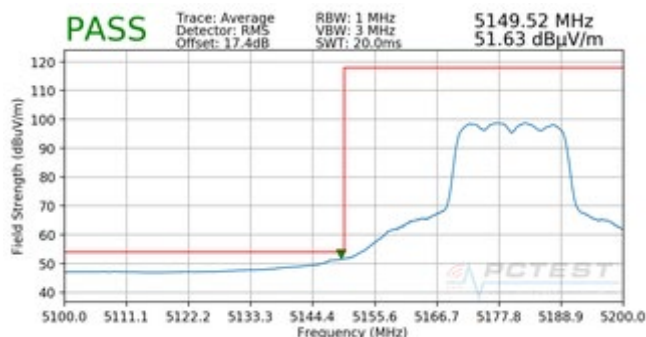
**Plot 7-354. Radiated Band Edge Plot MIMO (Peak - WCP)**

|                                         |                                           |                               |                                 |
|-----------------------------------------|-------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019       | EUT Type:<br>Portable Handset | Page 218 of 243                 |

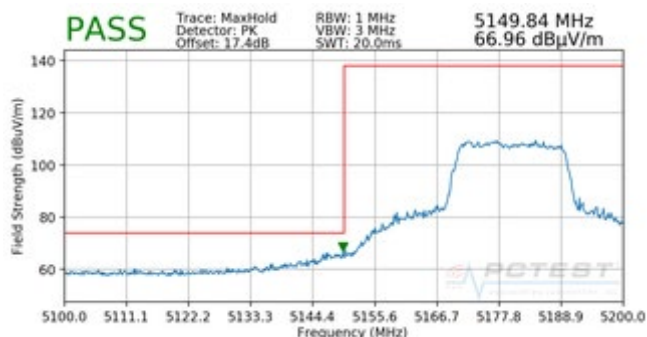
## 6.6.12 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5180MHz  |
| Channel:                  | 36       |

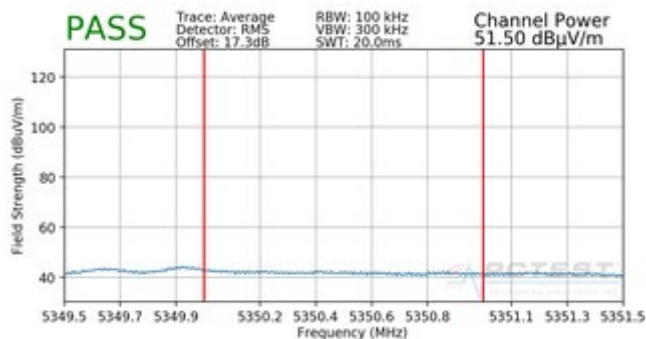


**Plot 7-355. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

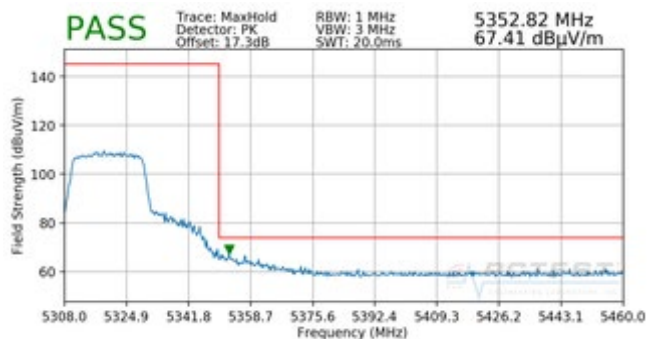


**Plot 7-356. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5320MHz  |
| Channel:                  | 64       |



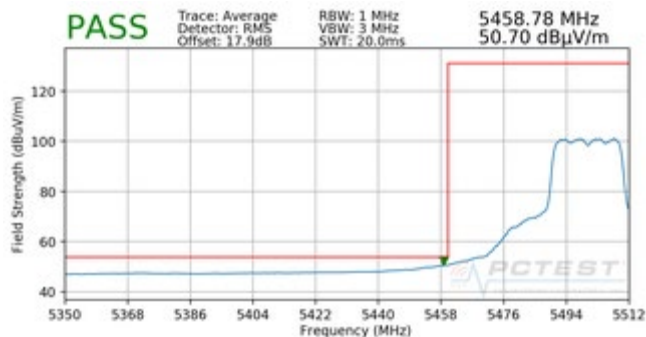
**Plot 7-357. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



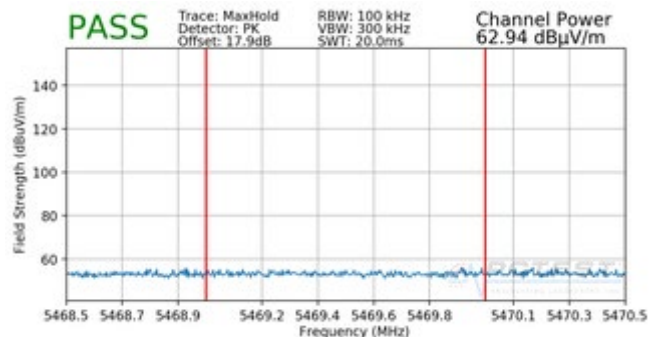
**Plot 7-358. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 219 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5500MHz  
Channel: 100

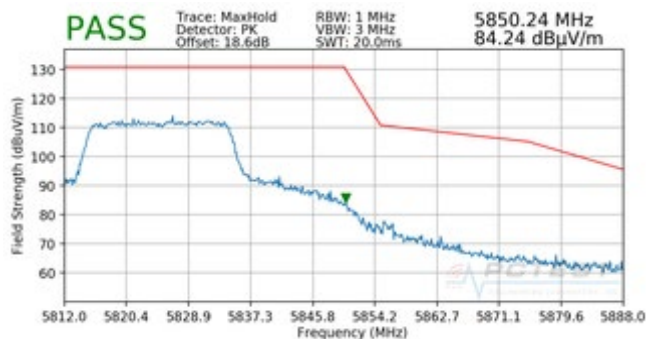


**Plot 7-359. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-360. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

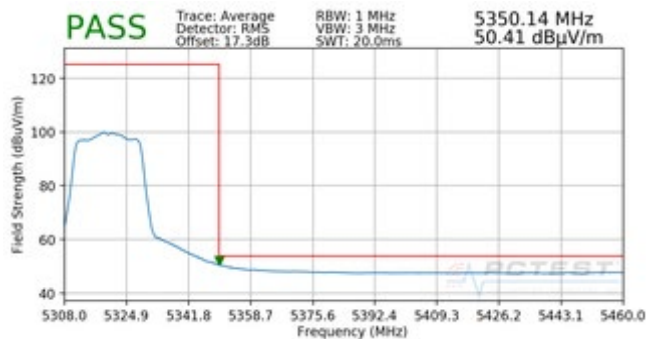
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5825MHz  
Channel: 165



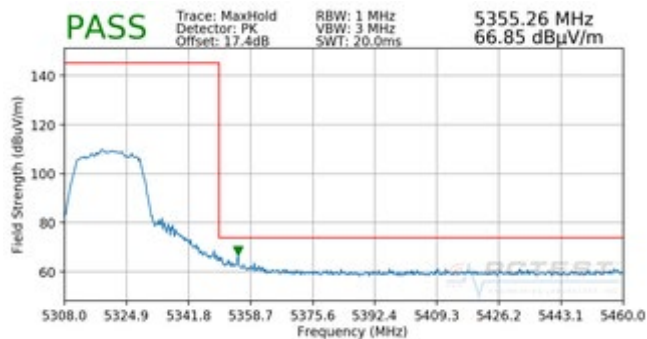
**Plot 7-361. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                         |                                                                                                                                                                                                                     |                               |                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                 | EUT Type:<br>Portable Handset | Page 220 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5320MHz  
Channel: 64



**Plot 7-362. Radiated Band Edge Plot MIMO  
(Average – WCP)**



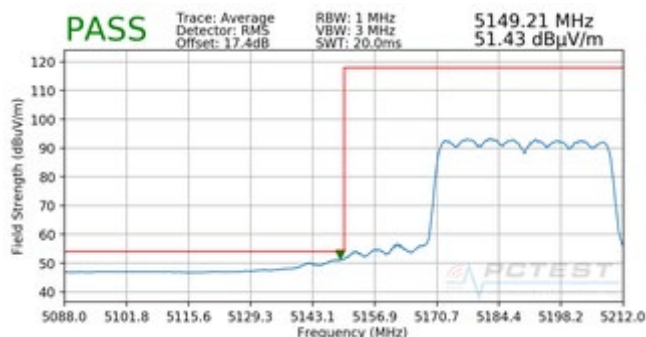
**Plot 7-363. Radiated Band Edge Plot MIMO (Peak –  
WCP)**

|                                         |                                                                                                                                                                                                                         |                               |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 221 of 243                 |

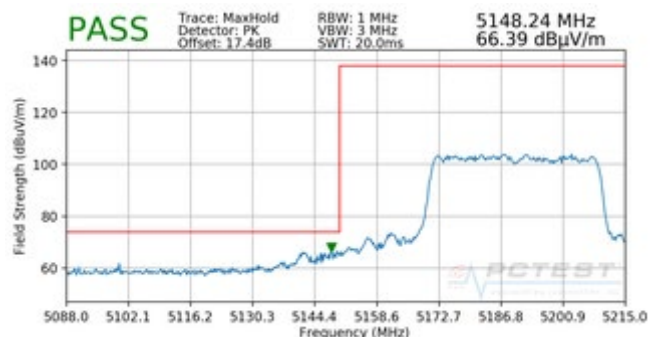
### 6.6.13 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5190MHz  |
| Channel:                  | 38       |

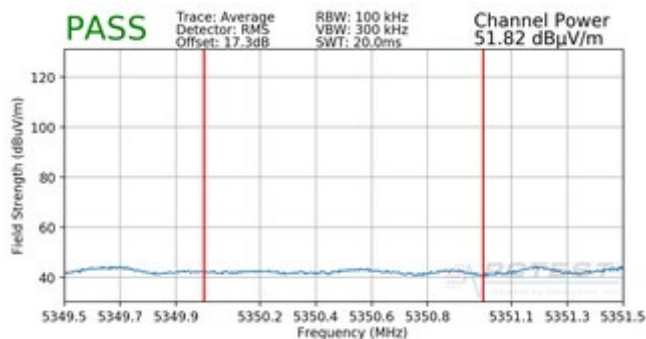


**Plot 7-364. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

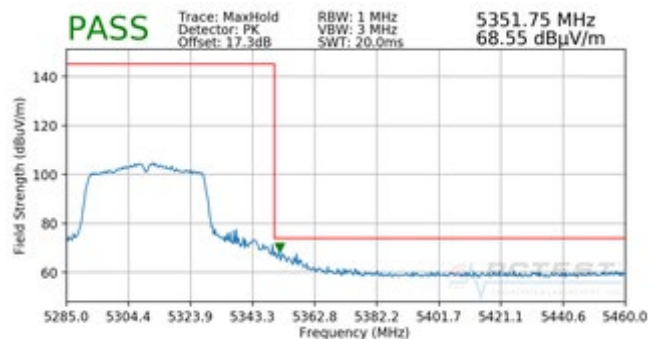


**Plot 7-365. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5310MHz  |
| Channel:                  | 62       |



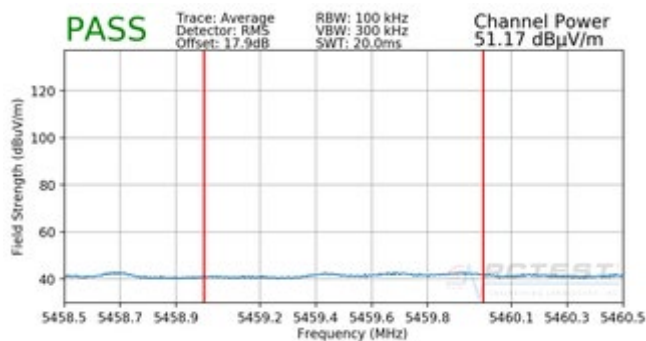
**Plot 7-366. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



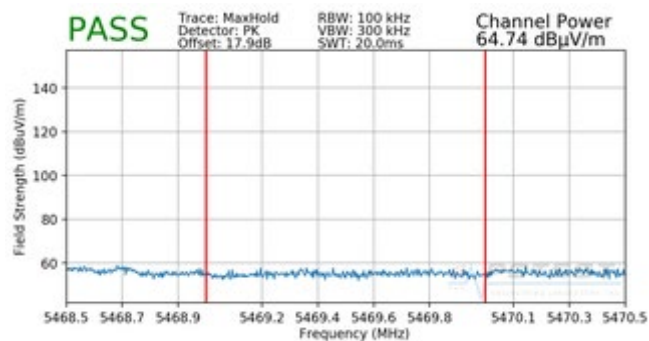
**Plot 7-367. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 222 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5510MHz  
Channel: 102

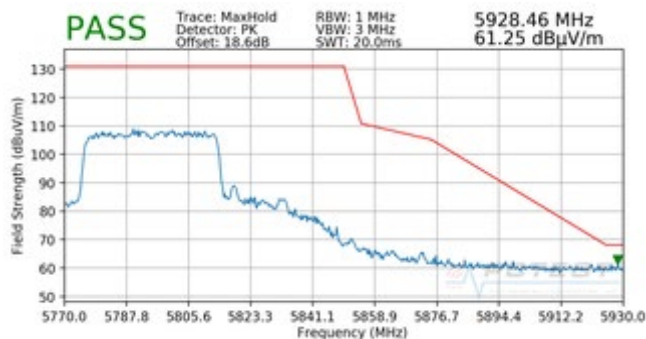


**Plot 7-368. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-369. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

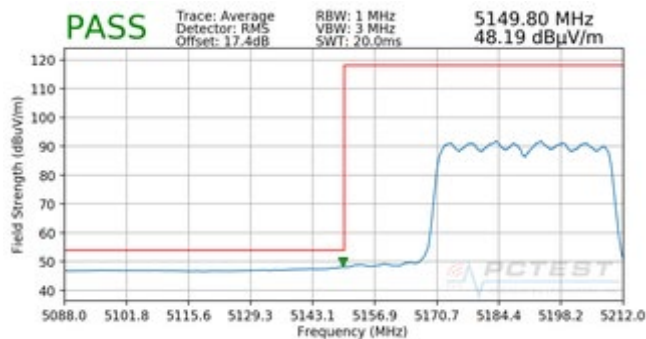
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5795MHz  
Channel: 159



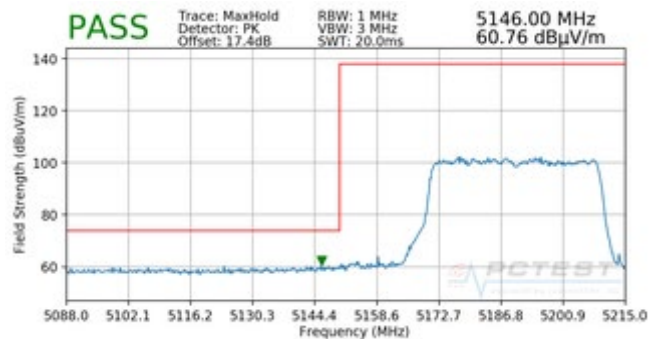
**Plot 7-370. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 223 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5190MHz  
Channel: 38



Plot 7-371. Radiated Band Edge Plot ANT (Average – WCP)



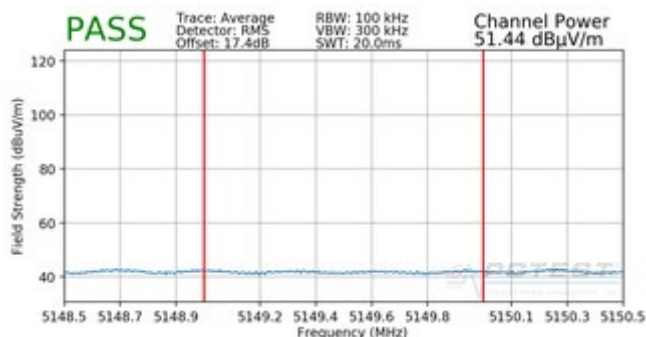
Plot 7-372. Radiated Band Edge Plot ANT (Peak – WCP)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 224 of 243                 |

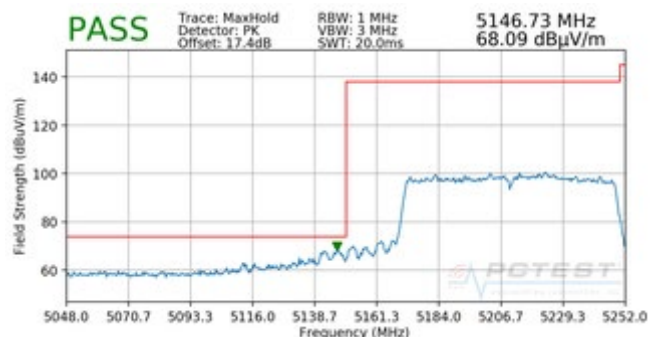
## 6.6.14 MIMO Radiated Band Edge Measurements (80MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5210MHz  |
| Channel:                  | 42       |

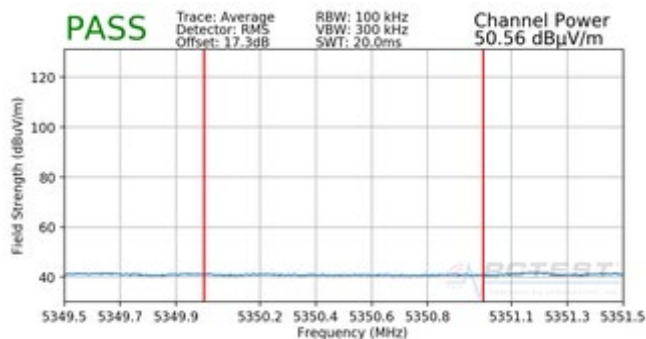


**Plot 7-373. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 1)**

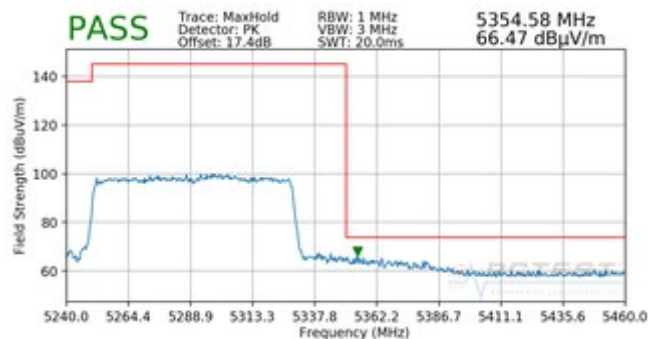


**Plot 7-374. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 1)**

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5290MHz  |
| Channel:                  | 58       |



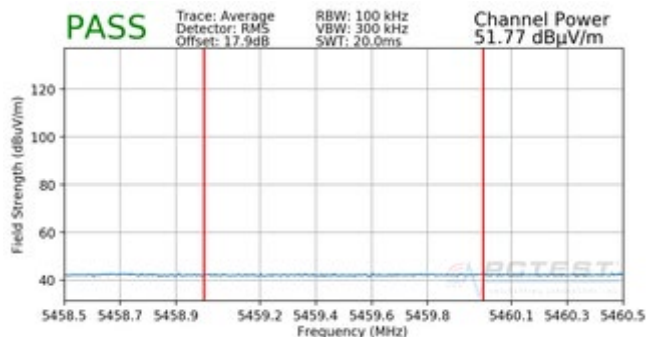
**Plot 7-375. Radiated Upper Band Edge Plot MIMO (Average – UNII Band 2A)**



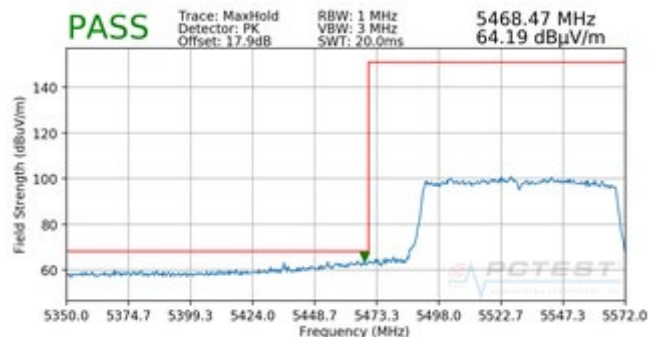
**Plot 7-376. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 2A)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 225 of 243                 |

Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5530MHz  
Channel: 106

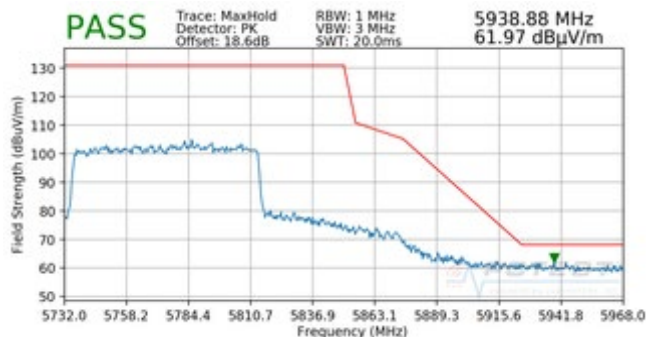


**Plot 7-377. Radiated Lower Band Edge Plot MIMO (Average – UNII Band 2C)**



**Plot 7-378. Radiated Lower Band Edge Plot MIMO (Peak – UNII Band 2C)**

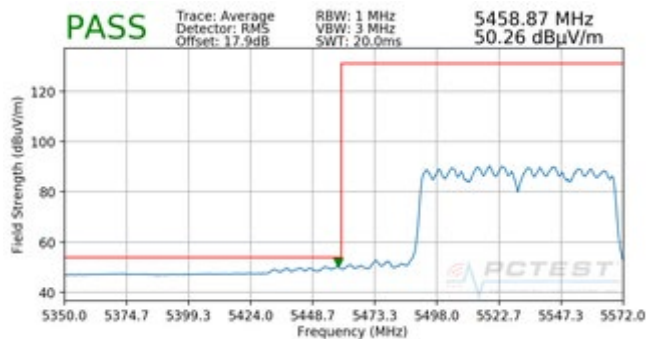
Worst Case Mode: 802.11ax  
Worst Case Transfer Rate: MCS0  
Distance of Measurements: 3 Meters  
Operating Frequency: 5775MHz  
Channel: 155



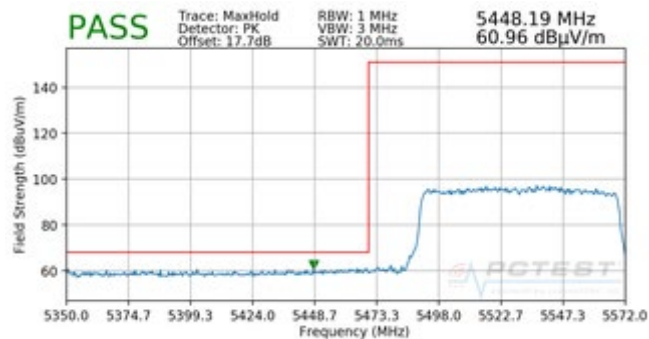
**Plot 7-379. Radiated Upper Band Edge Plot MIMO (Peak – UNII Band 3)**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06-A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 226 of 243                 |

|                           |          |
|---------------------------|----------|
| Worst Case Mode:          | 802.11ax |
| Worst Case Transfer Rate: | MCS0     |
| Distance of Measurements: | 3 Meters |
| Operating Frequency:      | 5530MHz  |
| Channel:                  | 106      |



**Plot 7-380. Radiated Band Edge Plot ANT (Average – WCP)**



**Plot 7-381. Radiated Band Edge Plot ANT (Peak – WCP)**

|                                         |                                           |                               |                                 |
|-----------------------------------------|-------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                               | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019       | EUT Type:<br>Portable Handset | Page 227 of 243                 |

## 7.7 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209; RSS-Gen [8.9]

### Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

***All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-63 per Section 15.209 and RSS-Gen (8.9).***

| Frequency         | Field Strength<br>[μV/m] | Measured Distance<br>[Meters] |
|-------------------|--------------------------|-------------------------------|
| 0.009 – 0.490 MHz | 2400/F (kHz)             | 300                           |
| 0.490 – 1.705 MHz | 24000/F (kHz)            | 30                            |
| 1.705 – 30.00 MHz | 30                       | 30                            |
| 30.00 – 88.00 MHz | 100                      | 3                             |
| 88.00 – 216.0 MHz | 150                      | 3                             |
| 216.0 – 960.0 MHz | 200                      | 3                             |
| Above 960.0 MHz   | 500                      | 3                             |

**Table 7-63. Radiated Limits**

### Test Procedures Used

ANSI C63.10-2013

### Test Settings

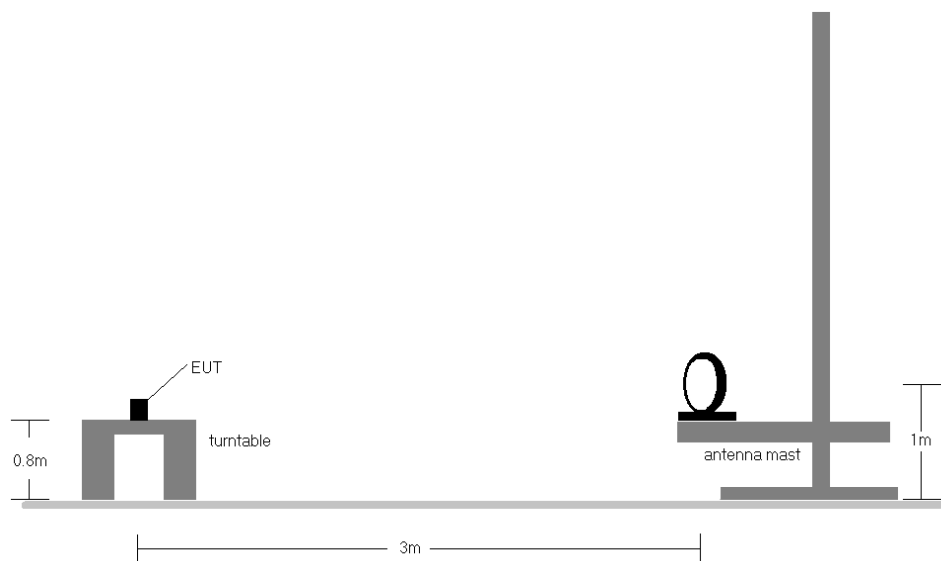
#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 120kHz (for emissions from 30MHz – 1GHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

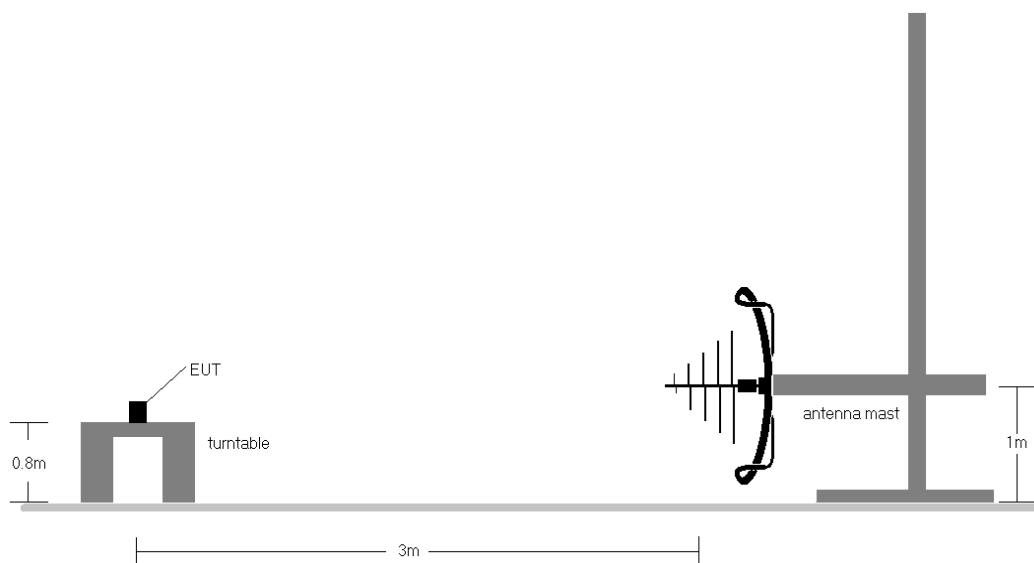
|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 228 of 243                 |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagrams below.



**Figure 7-6. Radiated Test Setup < 30MHz**



**Figure 7-7. Radiated Test Setup < 1GHz**

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
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| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 229 of 243                 |

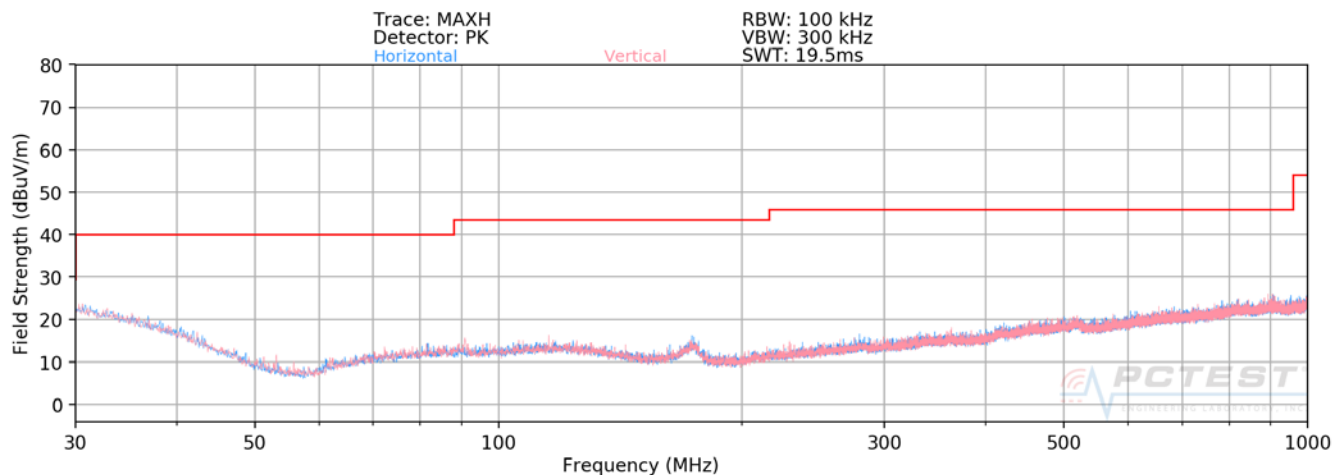
## Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen (8.10) are below the limit shown in Table 7-63.
2. The broadband receive antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes.
3. This unit was tested with its standard battery.
4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
5. Emissions were measured at a 3 meter test distance.
6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
7. No spurious emissions were detected within 20dB of the limit below 30MHz.
8. The results recorded using the broadband antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement antenna was found to be less than 2:1.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

|                                         |                                                                                                                                                                                                                         |                               |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
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| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                                                                                                                                                     | EUT Type:<br>Portable Handset | Page 230 of 243                 |

## SISO Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

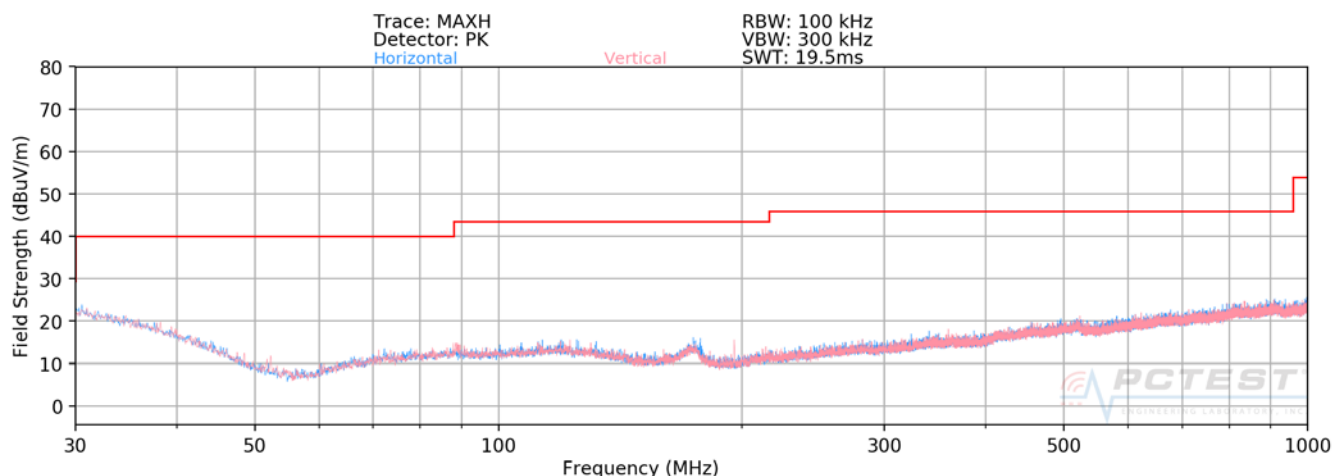
§15.209; RSS-Gen [8.9]



Plot 7-382. Radiated Spurious Plot below 1GHz SISO ANT1 (802.11a – U3 Ch. 157)

## SISO Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]

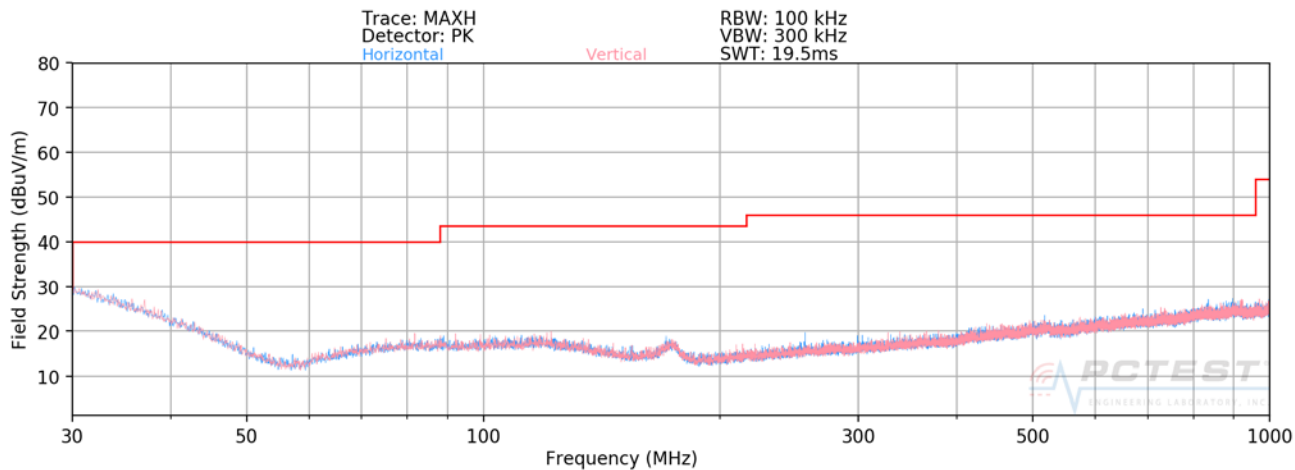


Plot 7-383. Radiated Spurious Plot below 1GHz SISO ANT2 (802.11a – U3 Ch. 157)

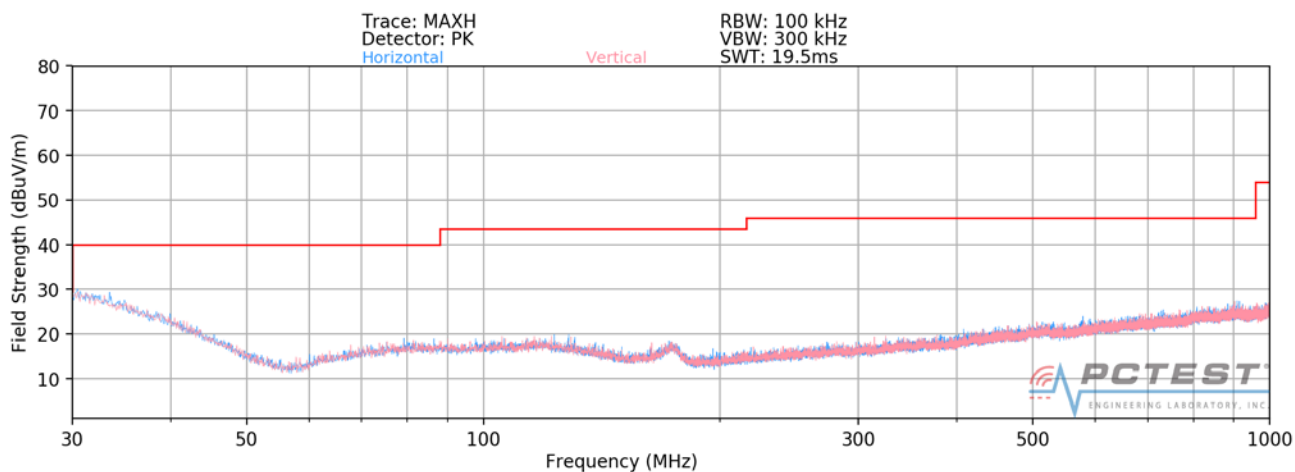
|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
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## Simultaneous Tx Radiated Spurious Emissions Measurements (Below 1GHz)

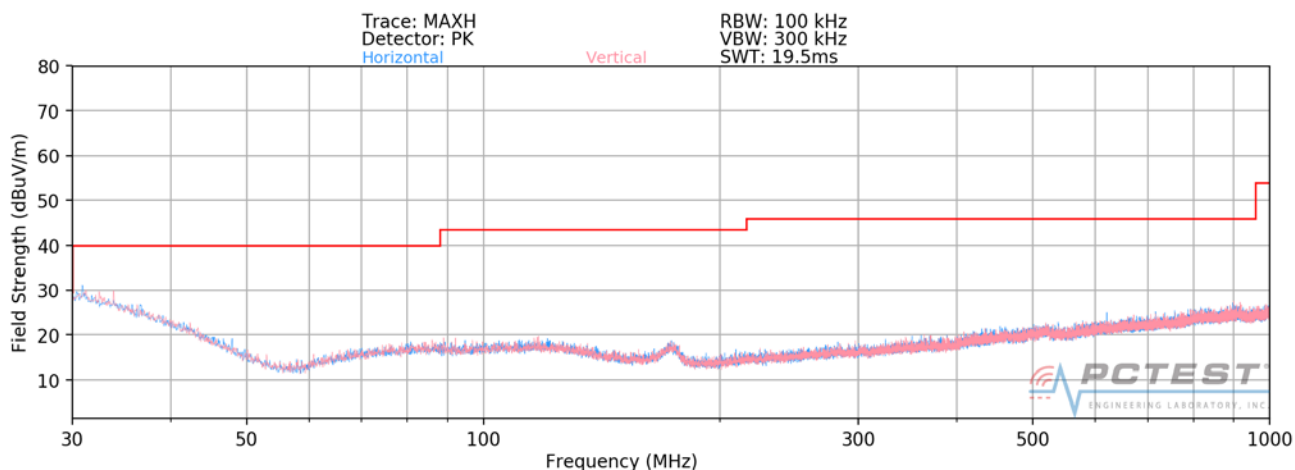
§15.209; RSS-Gen [8.9]



Plot 7-384. Radiated Spurious Plot below 1GHz (2.4GHz – 5GHz)



Plot 7-385. Radiated Spurious Plot below 1GHz (5GHz – 2.4 GHz)



Plot 7-386. Radiated Spurious Plot below 1GHz (Dual Band Simult. Tx)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
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| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 232 of 243                 |

## 7.8 Line-Conducted Test Data

§15.407; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

***All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).***

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

**Table 7-64. Conducted Limits**

\*Decreases with the logarithm of the frequency.

### Test Procedures Used

ANSI C63.10-2013, Section 6.2

### Test Settings

#### Quasi-Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = quasi-peak
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

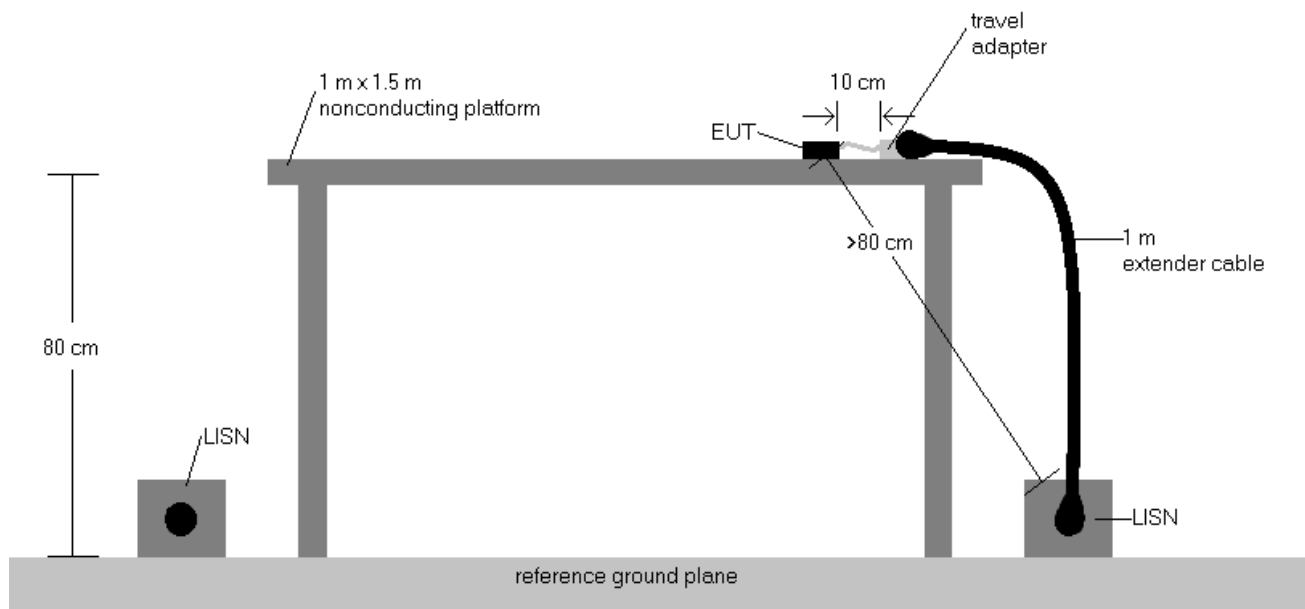
#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the spurious emission of interest
2. RBW = 9kHz (for emissions from 150kHz – 30MHz)
3. Detector = RMS
4. Sweep time = auto couple
5. Trace mode = max hold
6. Trace was allowed to stabilize

|                                         |                                                                                                                                                                                                                     |                               |                                 |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  <b>MEASUREMENT REPORT (CERTIFICATION)</b>  |                               | Approved by:<br>Quality Manager |
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## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

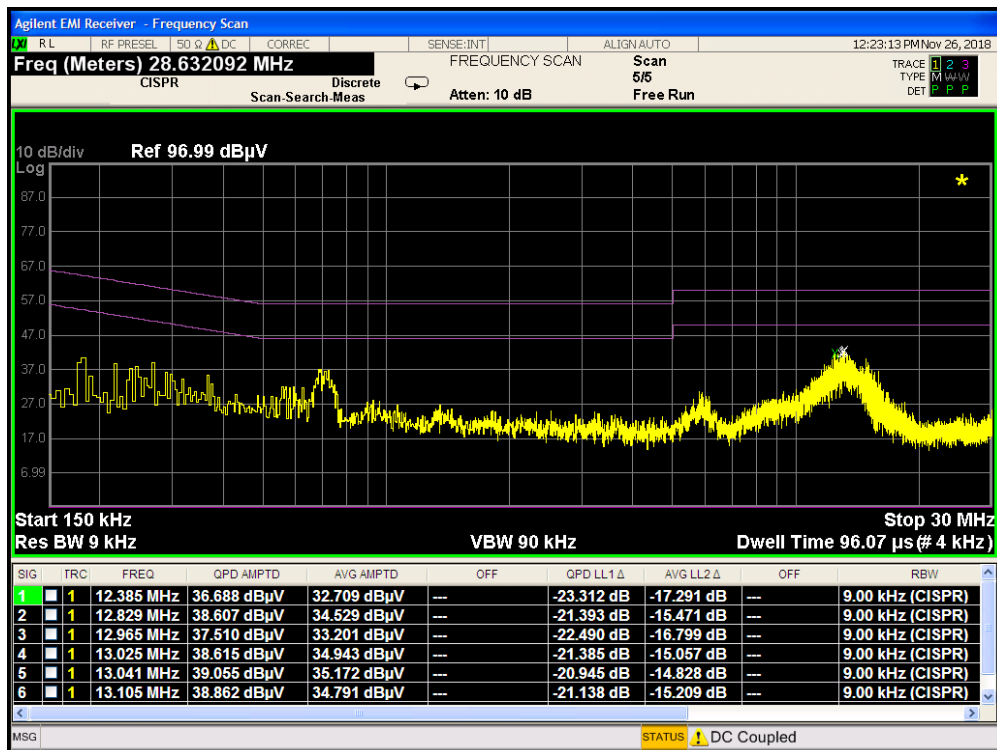


**Figure 7-8. Test Instrument & Measurement Setup**

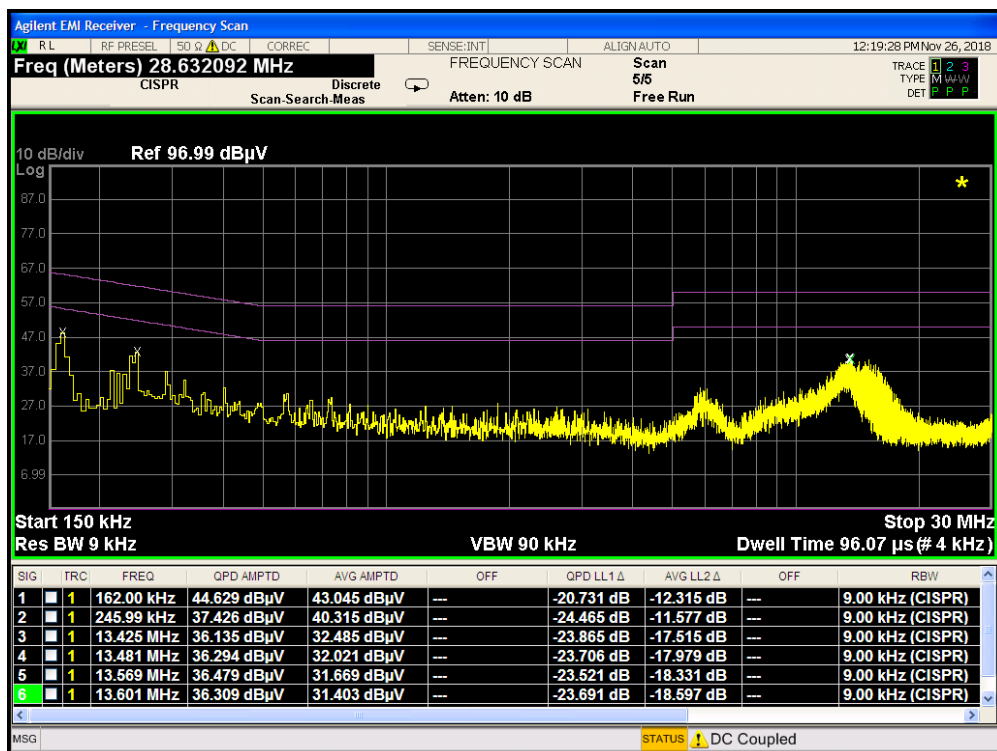
## Test Notes

1. All modes of operation were investigated and the worst-case emissions are reported using mid channel. The emissions found were not affected by the choice of channel used during testing.
2. The limit for an intentional radiator from 150kHz to 30MHz are specified in 15.207 and RSS-Gen (8.8).
3.  $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
4.  $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Corr. (dB)}$
5.  $\text{Margin (dB)} = \text{QP/AV Limit (dB}\mu\text{V)} - \text{QP/AV Level (dB}\mu\text{V)}$
6. Traces shown in plot are made using a peak detector.
7. Deviations to the Specifications: None.

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
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| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 234 of 243                 |

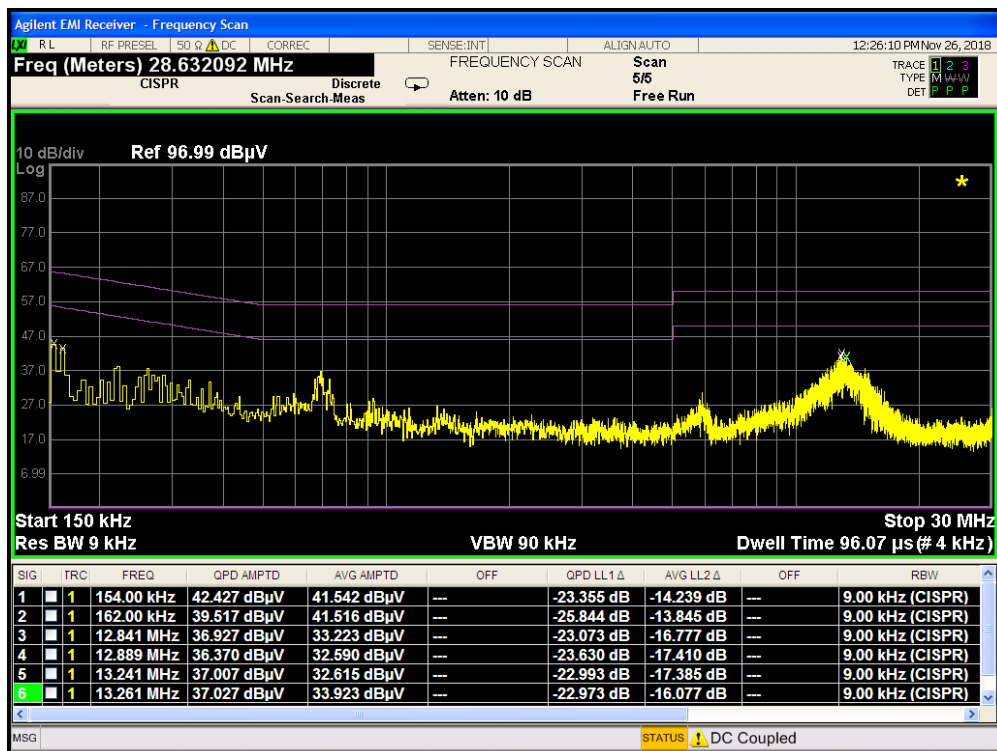


Plot 7-387. Line Conducted Plot with 802.11a UNII Band 1 (L1)

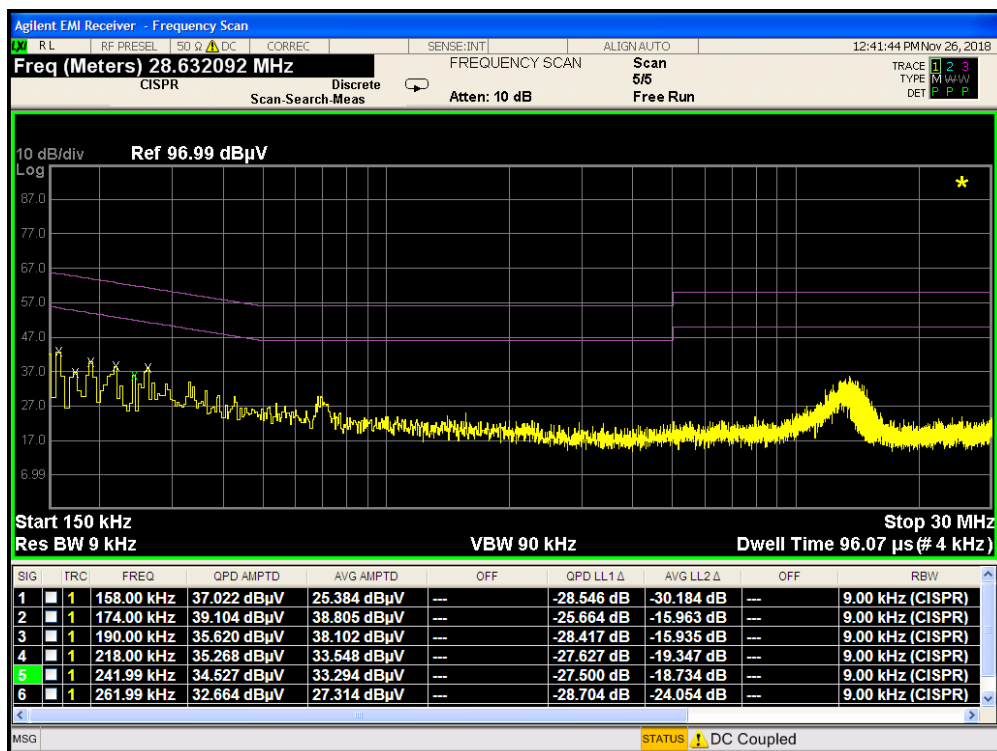


Plot 7-388. Line Conducted Plot with 802.11a UNII Band 1 (N)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
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| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 235 of 243                 |

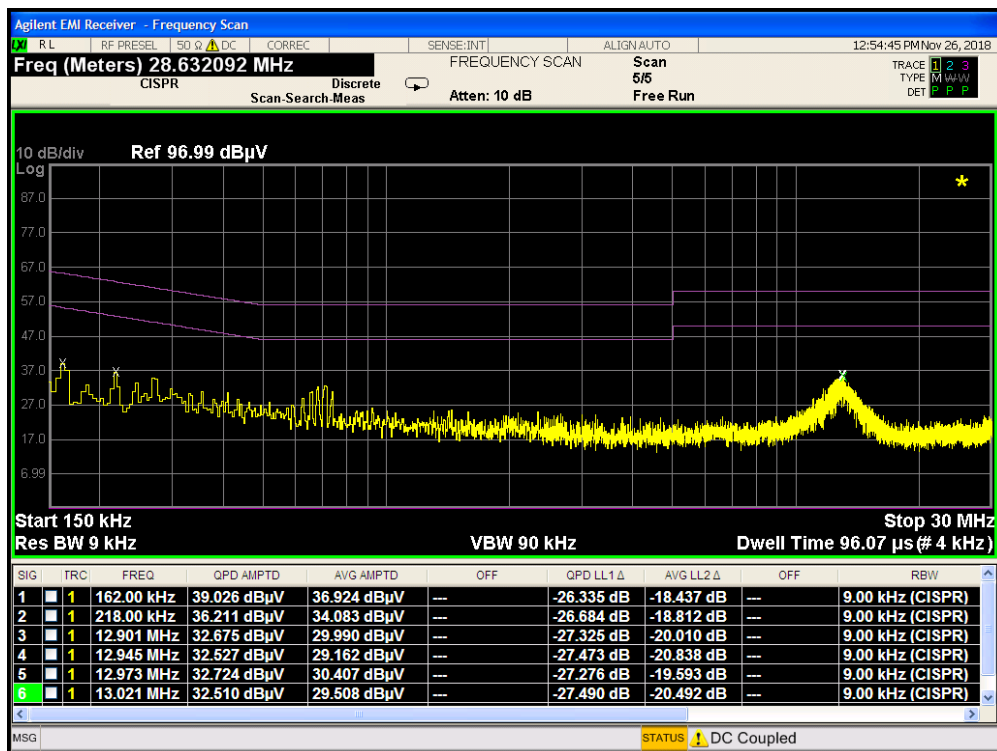


Plot 7-389. Line Conducted Plot with 802.11a UNII Band 2A (L1)

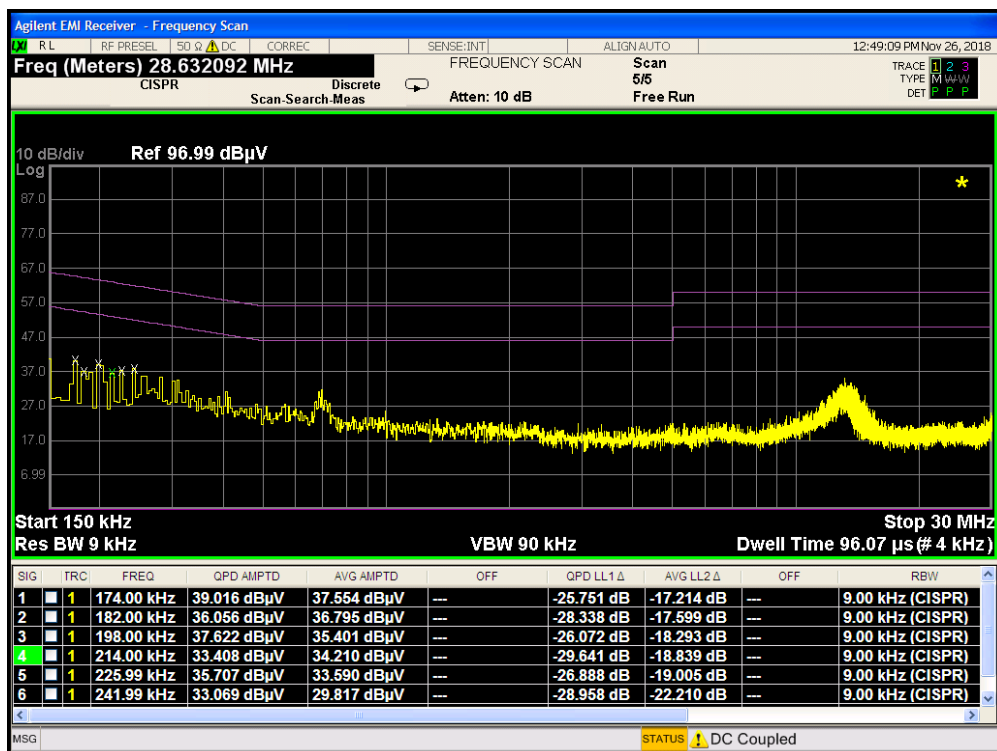


Plot 7-390. Line Conducted Plot with 802.11a UNII Band 2A (N)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 236 of 243                 |

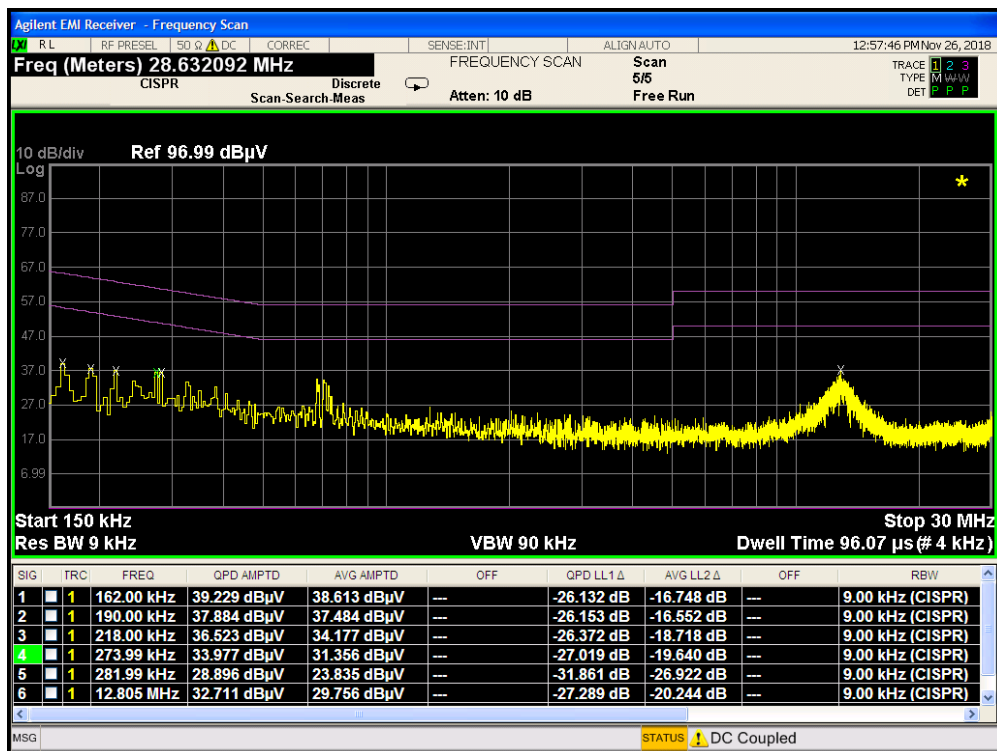


Plot 7-391. Line Conducted Plot with 802.11a UNII Band 2C (L1)

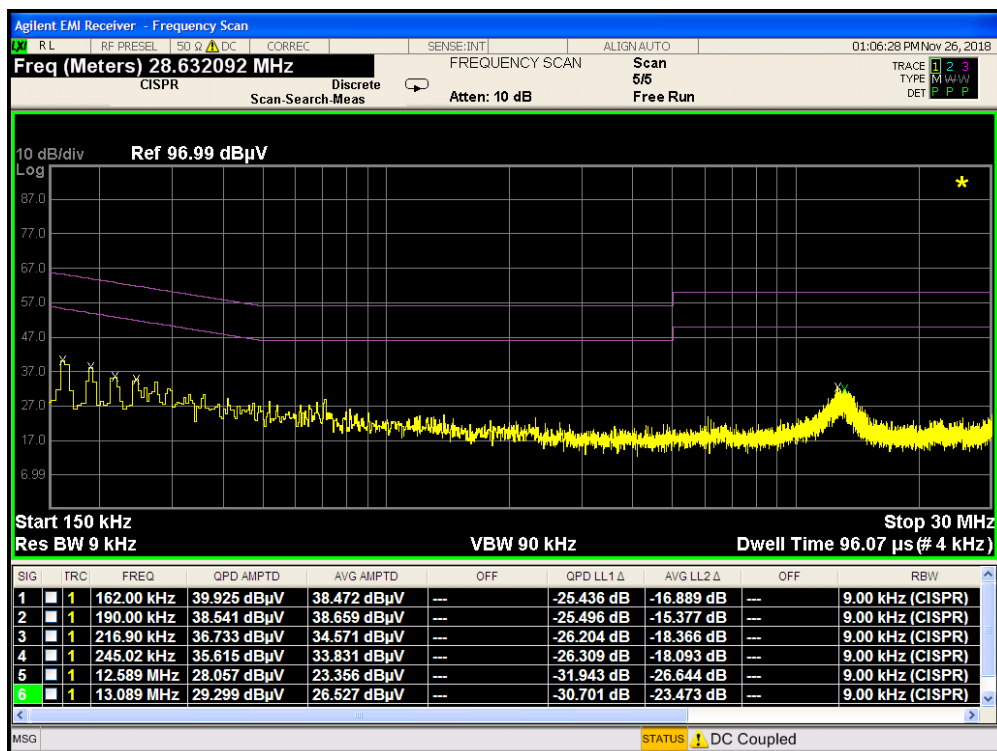


Plot 7-392. Line Conducted Plot with 802.11a UNII Band 2C (N)

|                                         |                                               |                               |  |                                 |
|-----------------------------------------|-----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset |  | Page 237 of 243                 |

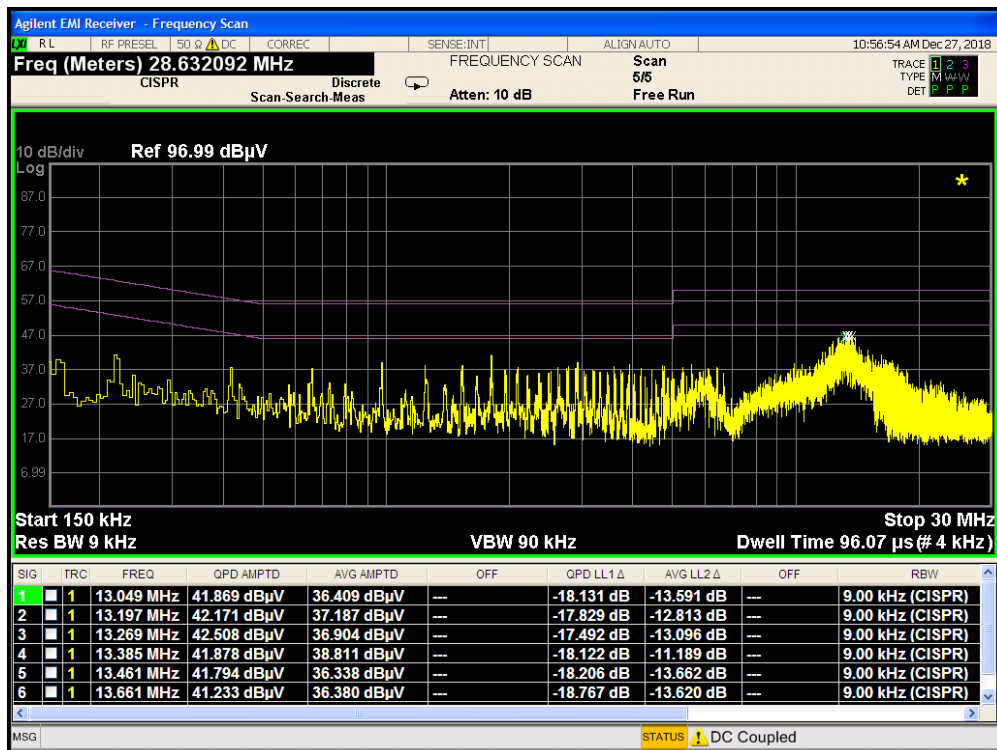


Plot 7-393. Line Conducted Plot with 802.11a UNII Band 3 (L1)

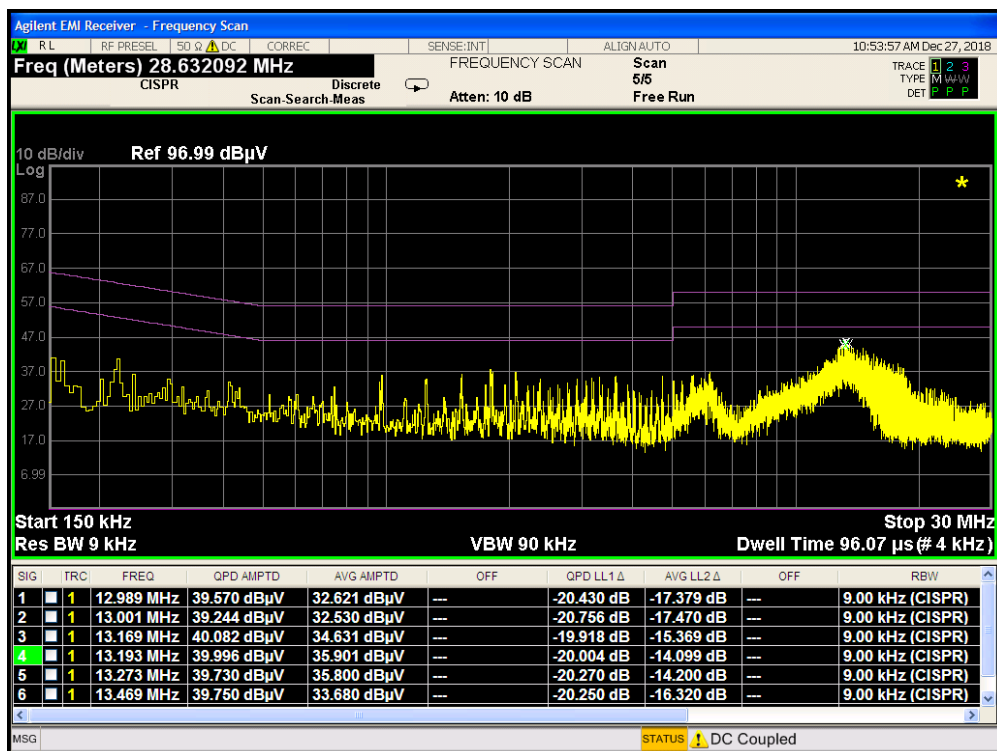


Plot 7-394. Line Conducted Plot with 802.11a UNII Band 3 (N)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 238 of 243                 |

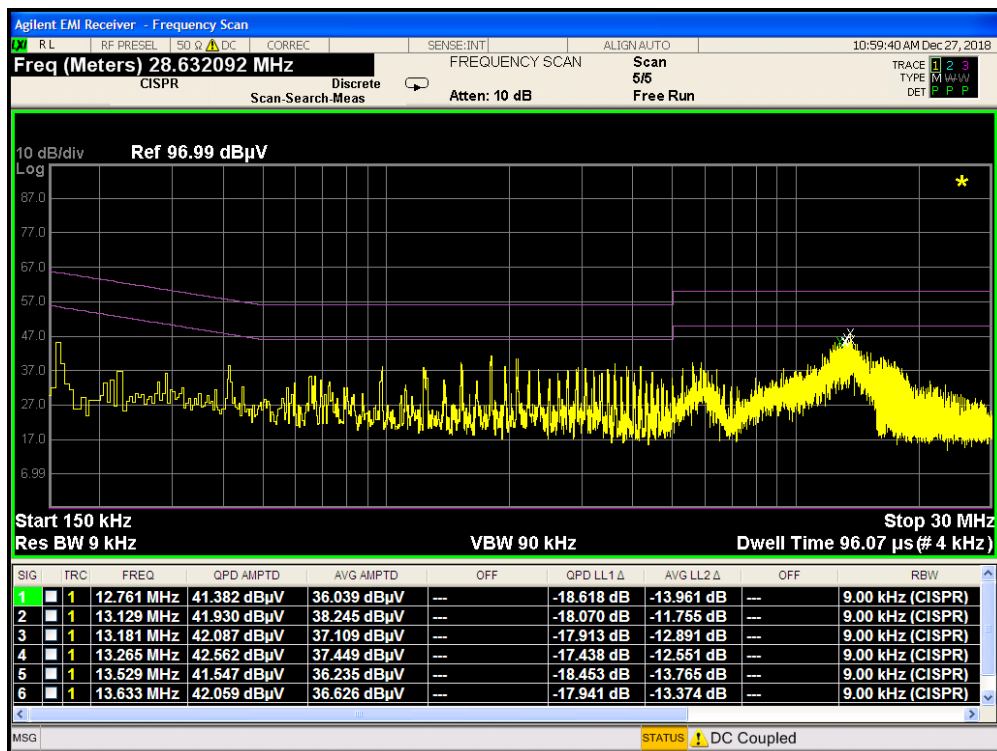


Plot 7-395. Line Conducted Plot with 802.11a UNII Band 1 with WCP (L1)

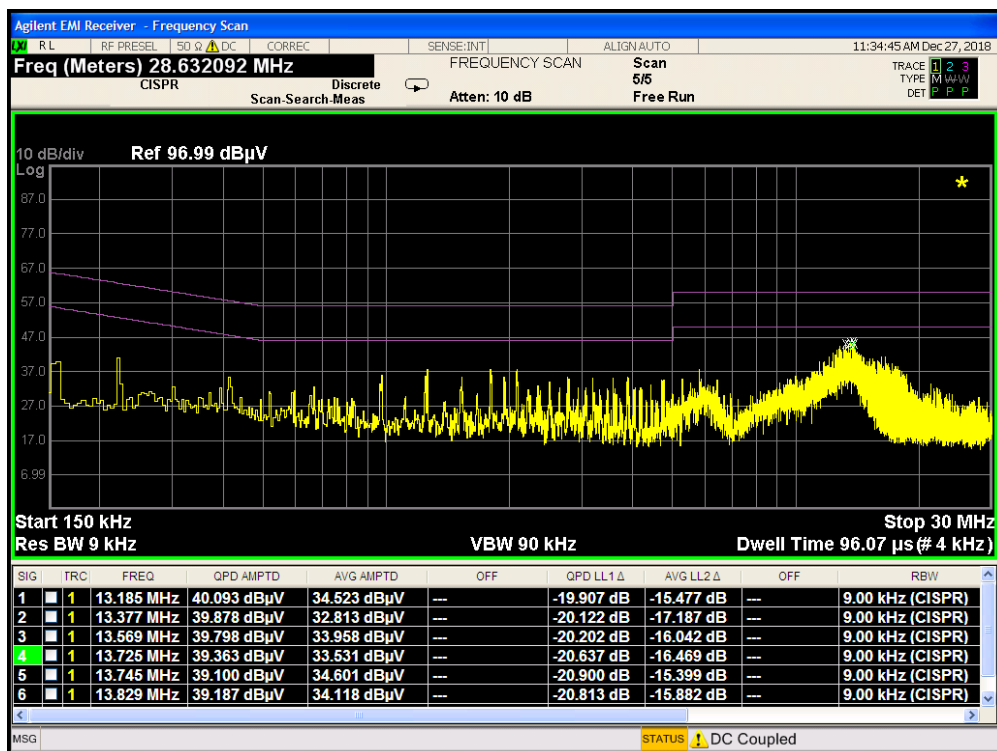


Plot 7-396. Line Conducted Plot with 802.11a UNII Band 1 with WCP (N)

|                                         |                                              |                               |  |                                 |
|-----------------------------------------|----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                               |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019          | EUT Type:<br>Portable Handset |  | Page 239 of 243                 |

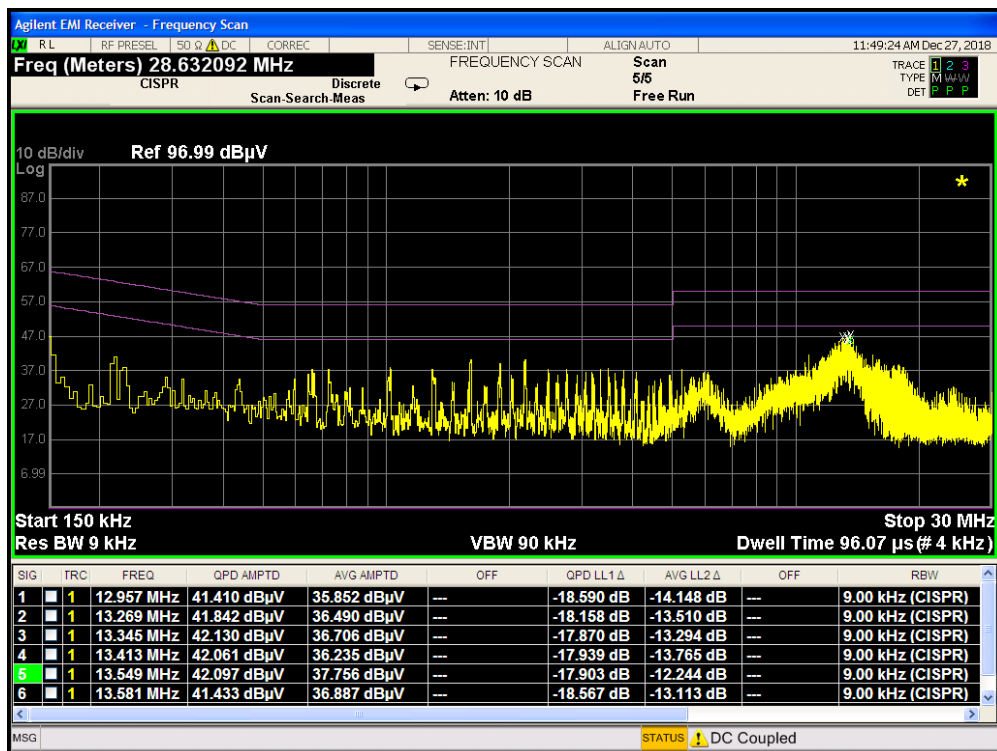


Plot 7-397. Line Conducted Plot with 802.11a UNII Band 2A with WCP (L1)

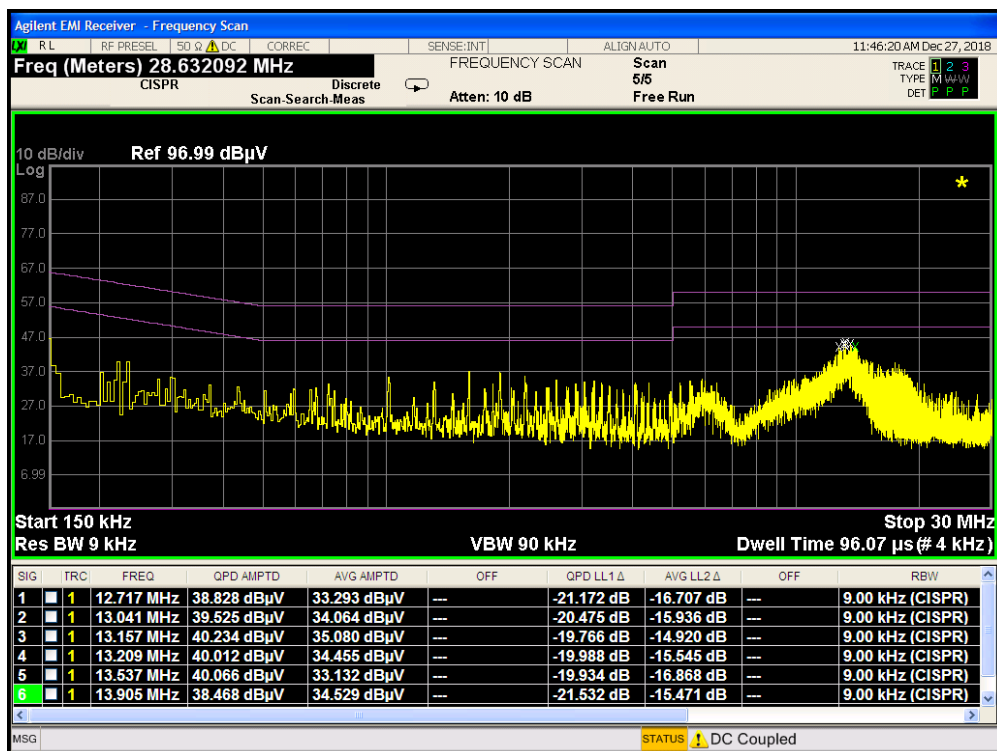


Plot 7-398. Line Conducted Plot with 802.11a UNII Band 2A with WCP (N)

|                                         |                                               |                                       |                |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | <b>SAMSUNG</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019           | EUT Type:<br>Portable Handset         |                | Page 240 of 243                 |

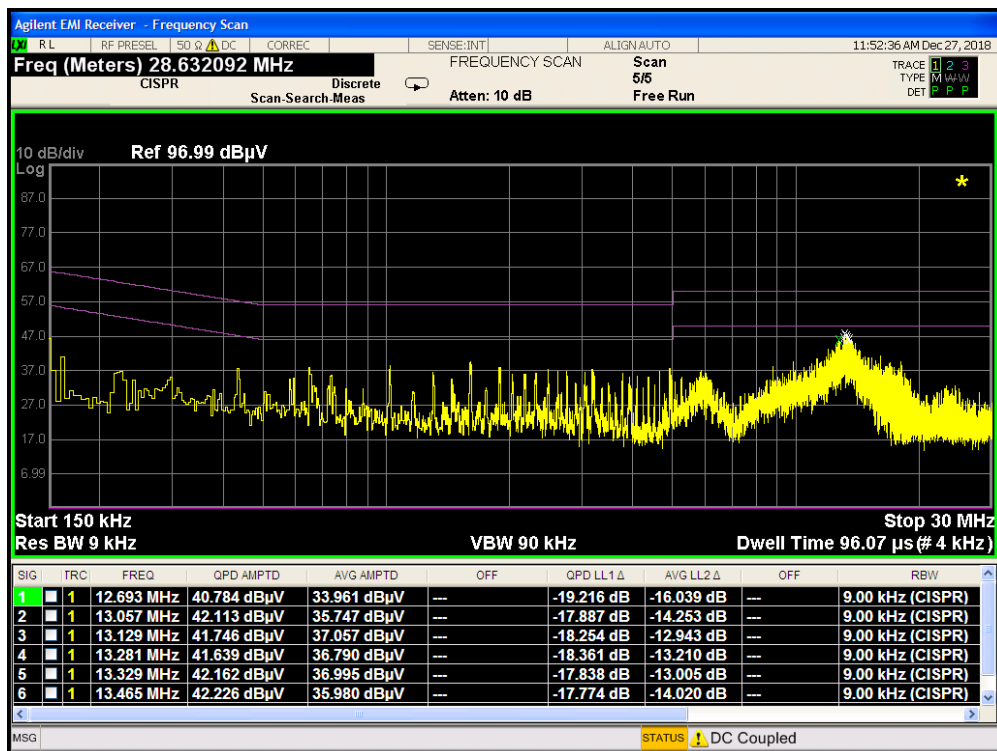


Plot 7-399. Line Conducted Plot with 802.11a UNII Band 2C with WCP (L1)

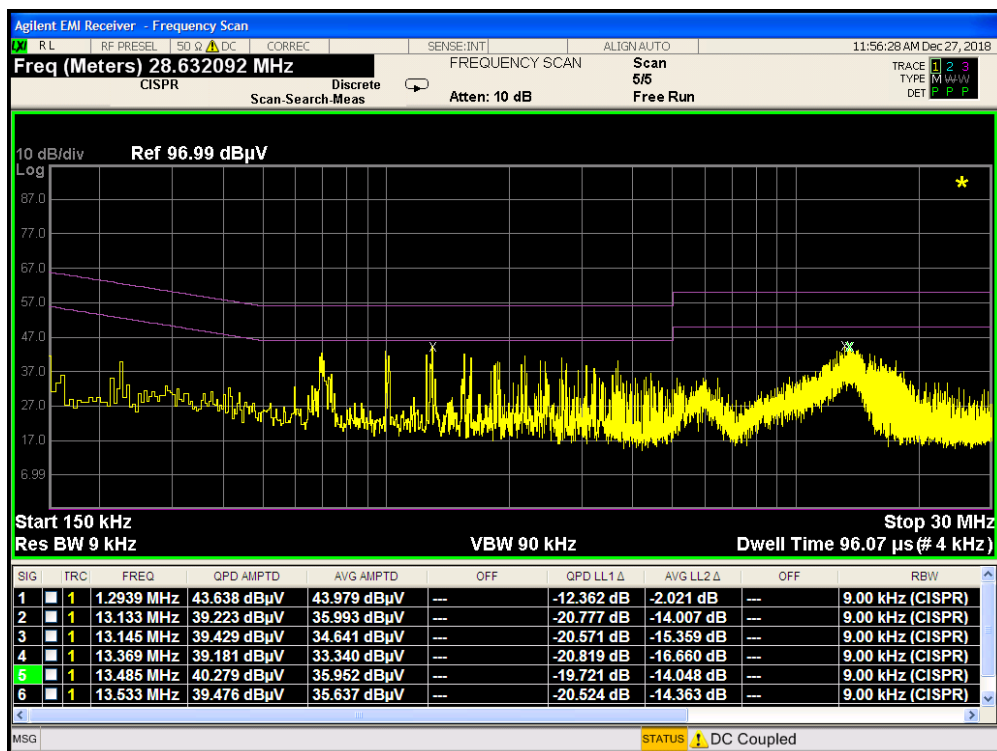


Plot 7-400. Line Conducted Plot with 802.11a UNII Band 2C with WCP (N)

|                                         |                                              |                               |  |                                 |
|-----------------------------------------|----------------------------------------------|-------------------------------|--|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                               |  | Approved by:<br>Quality Manager |
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Plot 7-401. Line Conducted Plot with 802.11a UNII Band 3 with WCP (L1)



Plot 7-402. Line Conducted Plot with 802.11a UNII Band 3 with WCP (N)

|                                         |                                              |                               |                 |                                 |
|-----------------------------------------|----------------------------------------------|-------------------------------|-----------------|---------------------------------|
| FCC ID: A3LSCV42                        | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                               |                 | Approved by:<br>Quality Manager |
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## 8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSCV42** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

|                                         |                                                                                     |                                       |                                                                                       |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: A3LSCV42                        |  | MEASUREMENT REPORT<br>(CERTIFICATION) |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1M1901240018-06.A3L | Test Dates:<br>10/31/2018-1/17/2019                                                 | EUT Type:<br>Portable Handset         |                                                                                       | Page 243 of 243                 |