

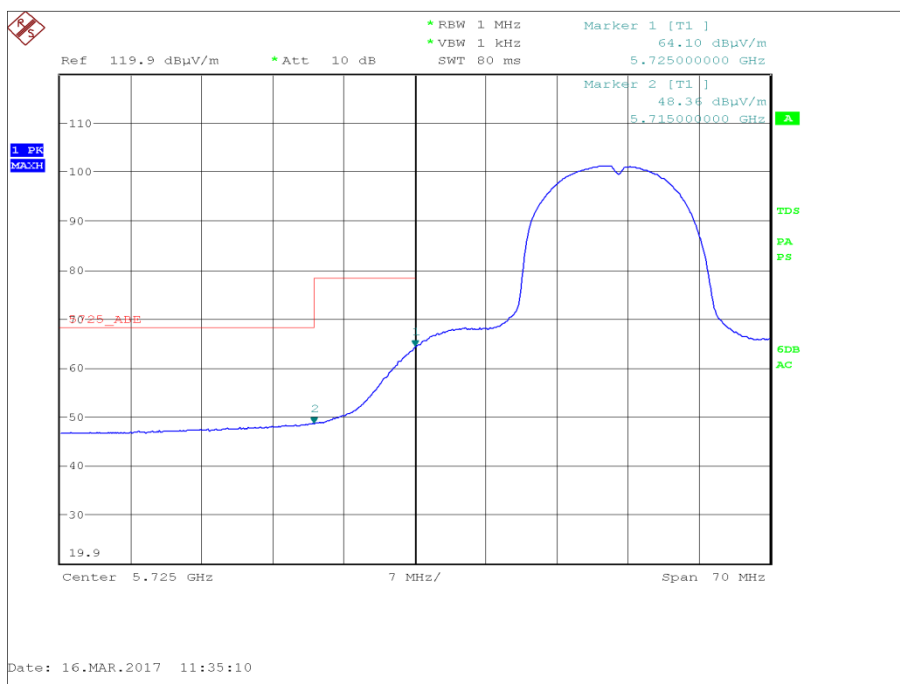


Figure 91 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

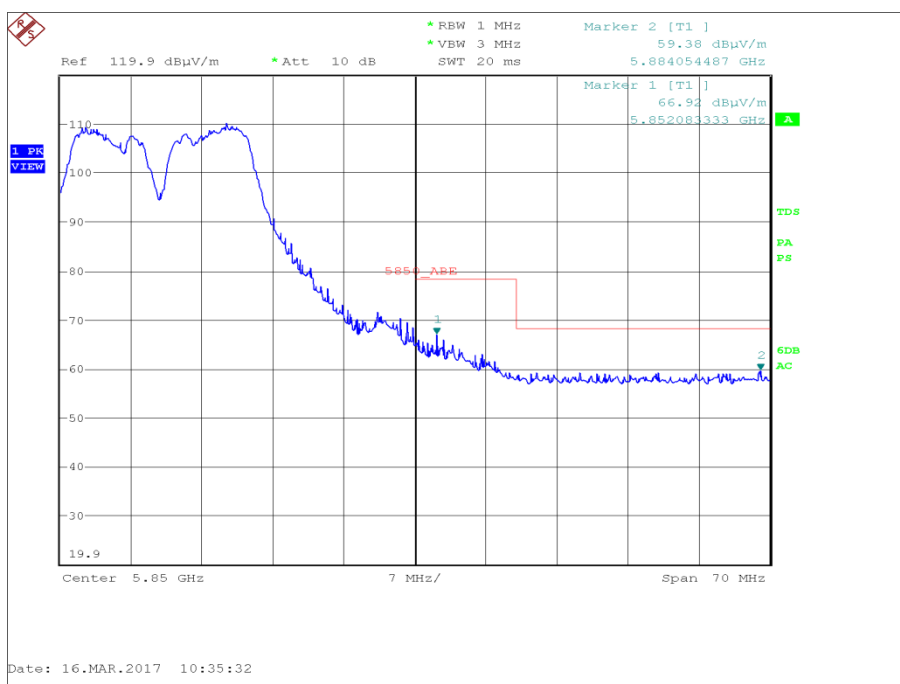


Figure 92 - Authorised Band Edge at 5850 MHz - Highest Conducted Power



Product Service

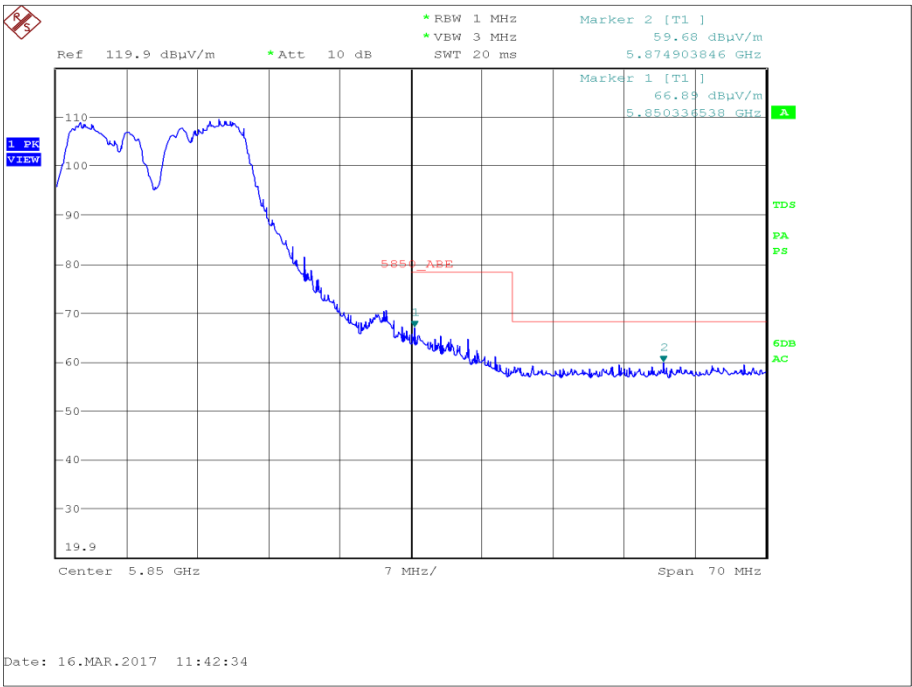


Figure 93 - Authorised Band Edge at 5850 MHz - Widest Emission Bandwidth

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

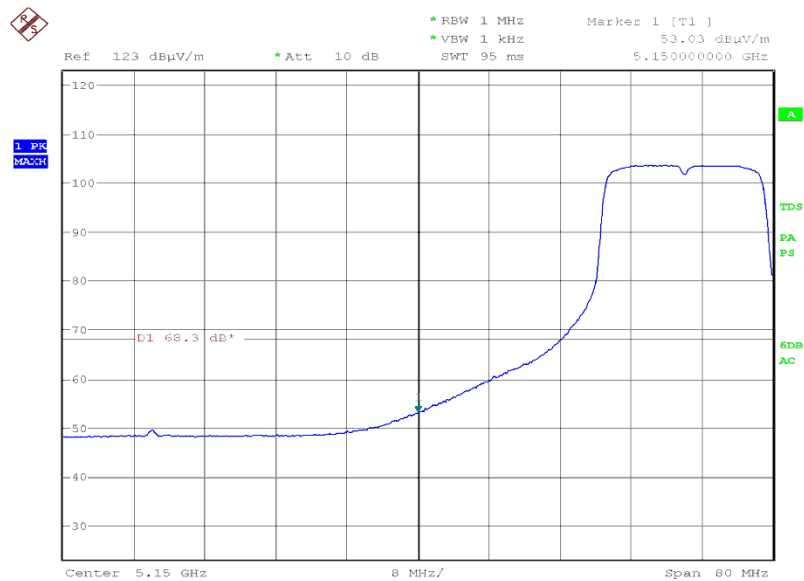
Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

**ANT793-8DK + 10m Cable - 802.11n 20 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5150                     | 53.03          |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5150                     | 53.47          |

**Table 150 - UNII 1 - Authorised Band Edge Results**

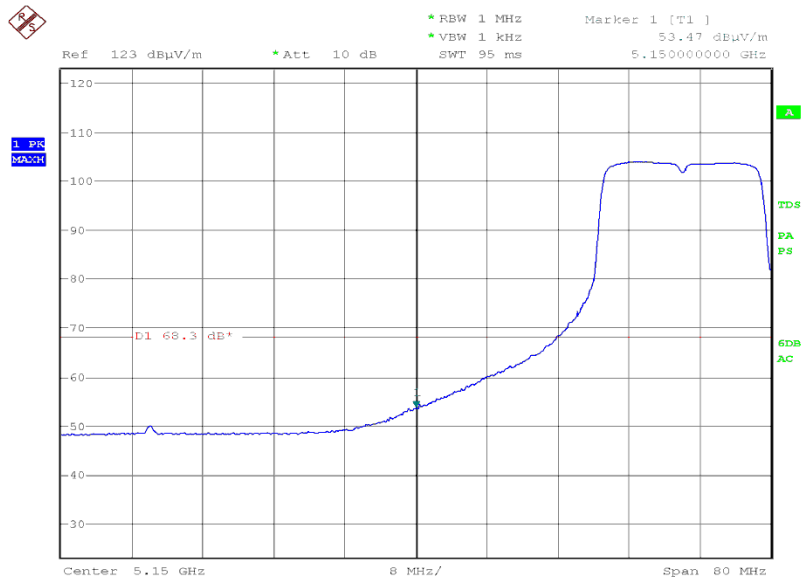


Date: 14.JUN.2017 18:55:05

**Figure 94 - U-NII 1 - Authorised Band Edge at 5150 MHz - Highest Conducted Power**



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Date: 14.JUN.2017 19:02:59

Figure 95 - U-NII 1 - Authorised Band Edge at 5150 MHz - Widest Emission Bandwidth



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| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5320                        | 5350                     | 50.00          |
| Widest Emission Bandwidth | MCS3          | 5320                        | 5350                     | 49.80          |

Table 151 - U-NII 2a - Authorised Band Edge Results

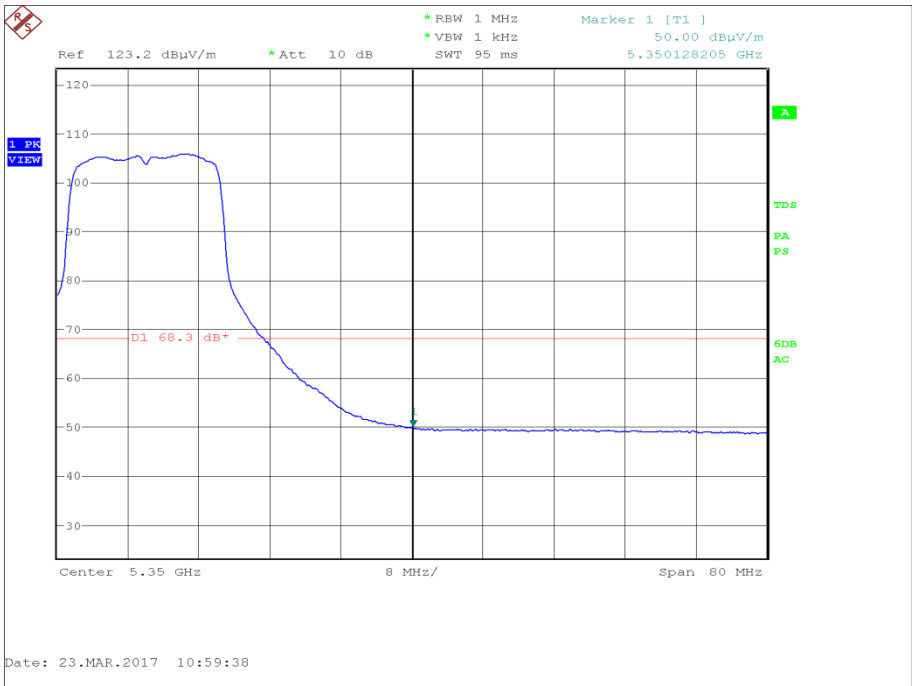


Figure 96 - U-NII 2a - Authorised Band Edge at 5350 MHz - Highest Conducted Power



Product Service

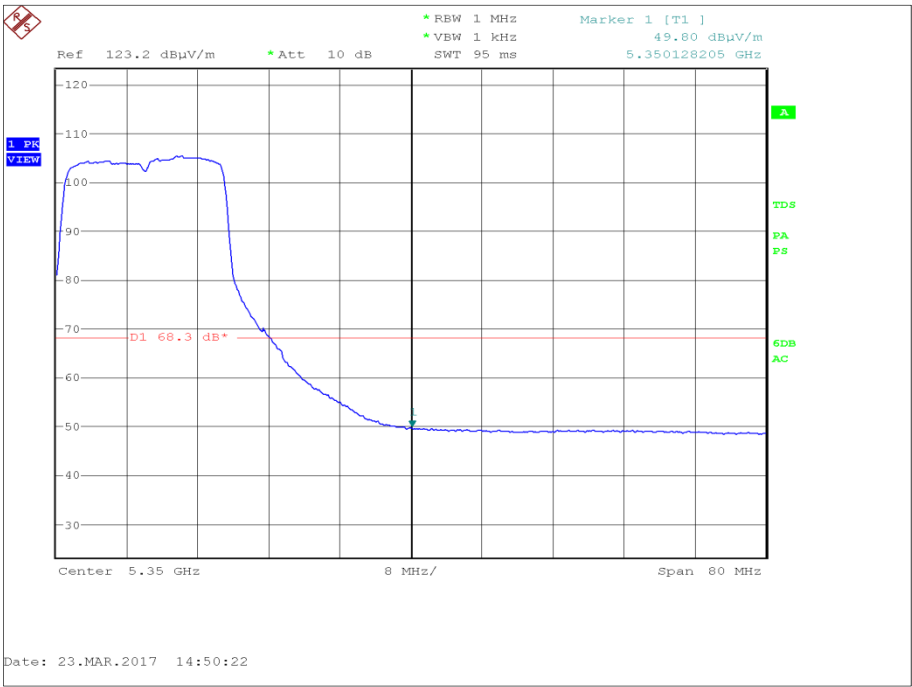
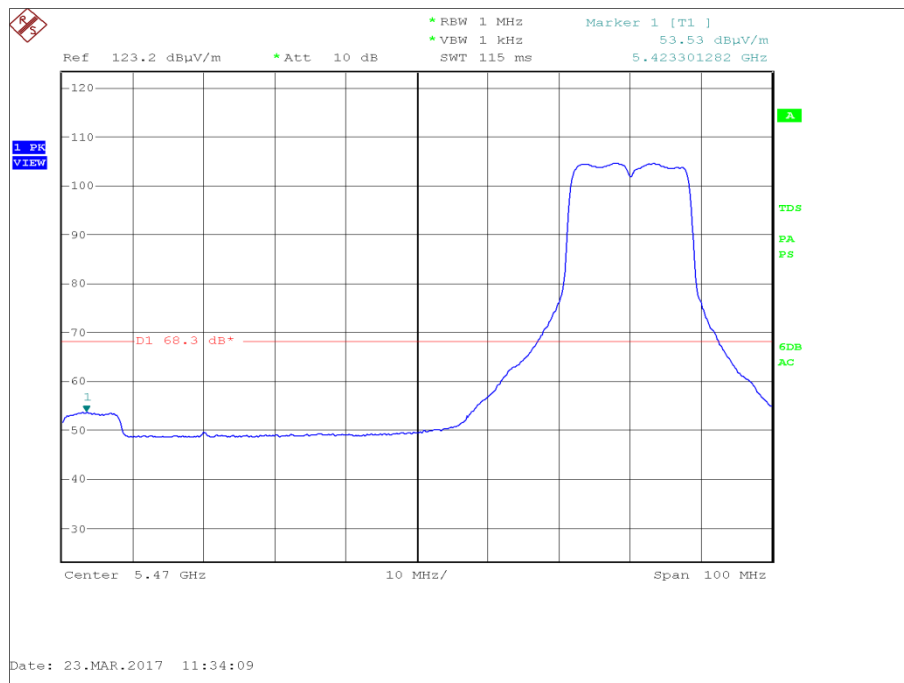


Figure 97 - U-NII 2a - Authorised Band Edge at 5350 MHz - Widest Emission Bandwidth



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5500                        | 5470                     | 53.53          |
| Widest Emission Bandwidth | MCS3          | 5500                        | 5470                     | 52.65          |
| Highest Conducted Power   | MCS0          | 5700                        | 5725                     | 53.24          |
| Widest Emission Bandwidth | MCS3          | 5700                        | 5725                     | 69.22          |

**Table 152 - U-NII 2c - Authorised Band Edge Results**



**Figure 98 - Authorised Band Edge at 5470 MHz - Highest Conducted Power**

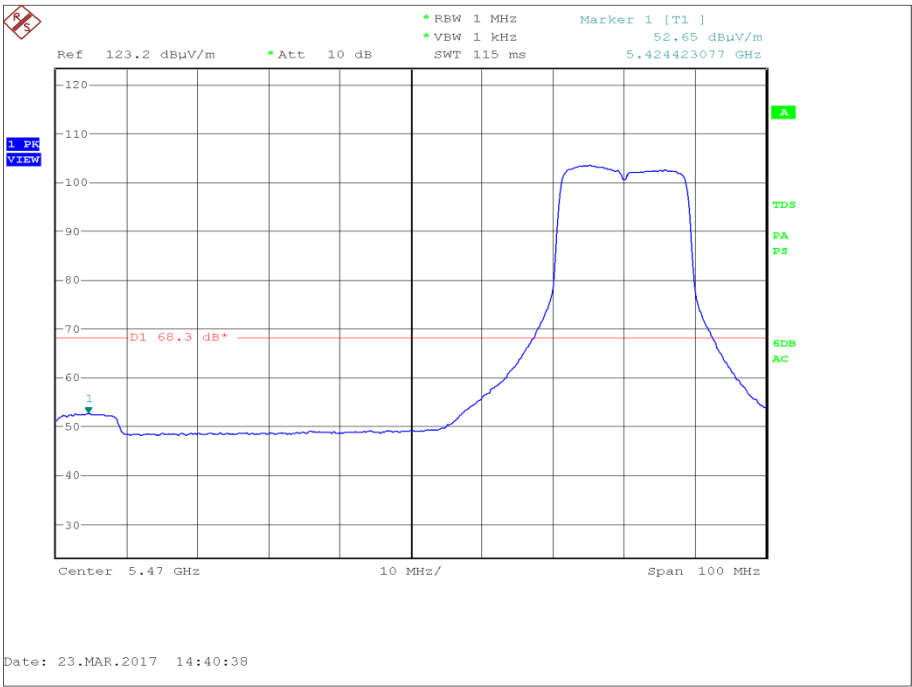


Figure 99 - Authorised Band Edge at 5470 MHz - Widest Emission Bandwidth

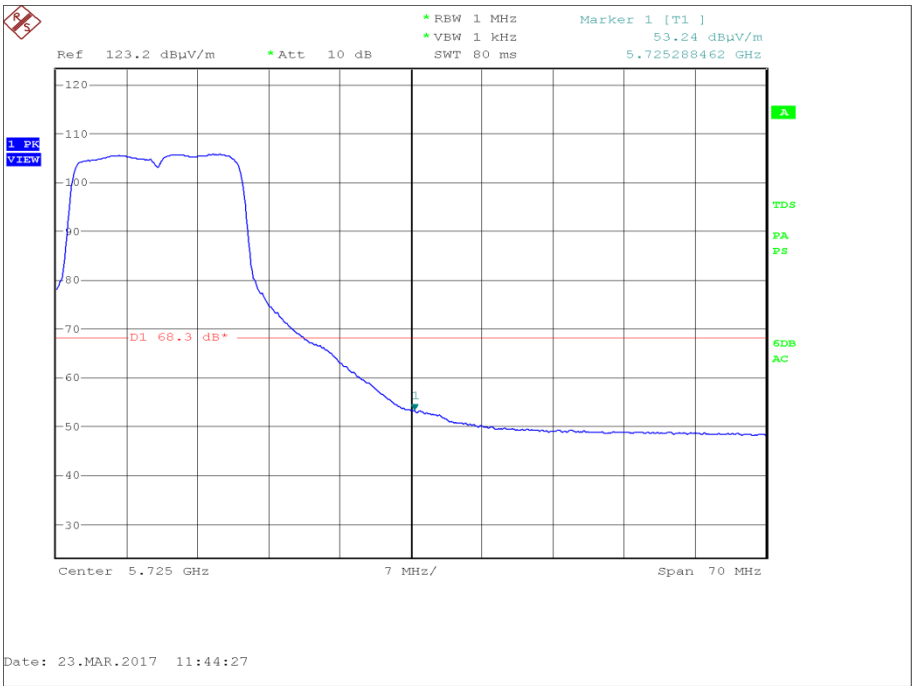


Figure 100 - Authorised Band Edge at 5725 MHz - Highest Conducted Power



Product Service

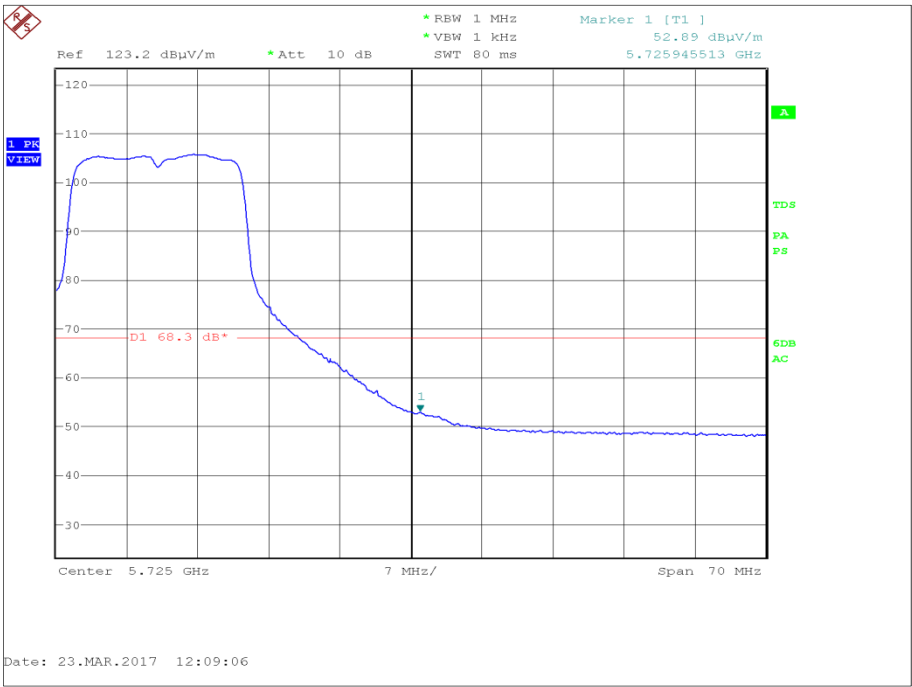
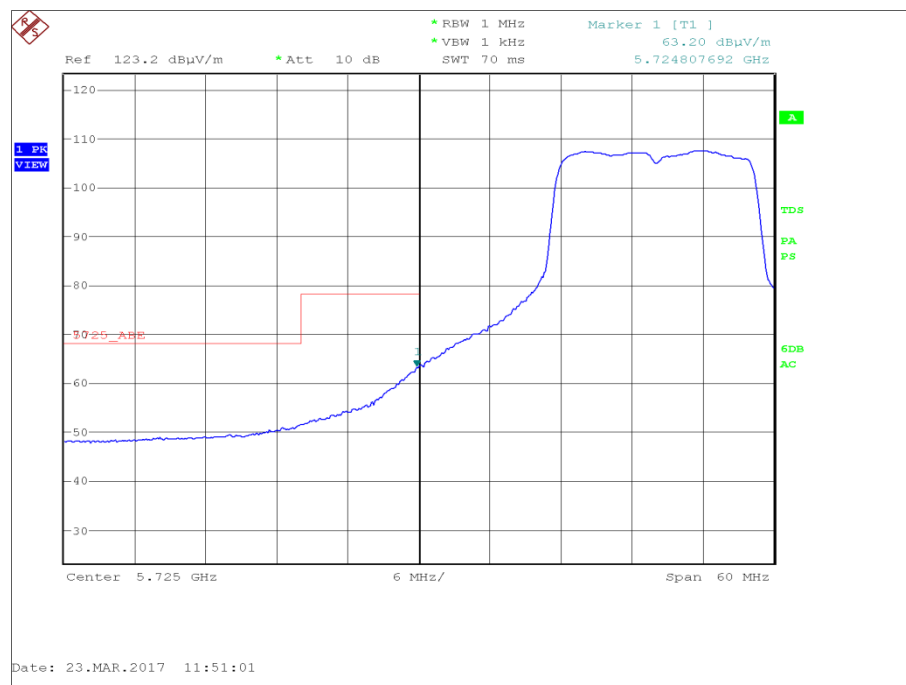


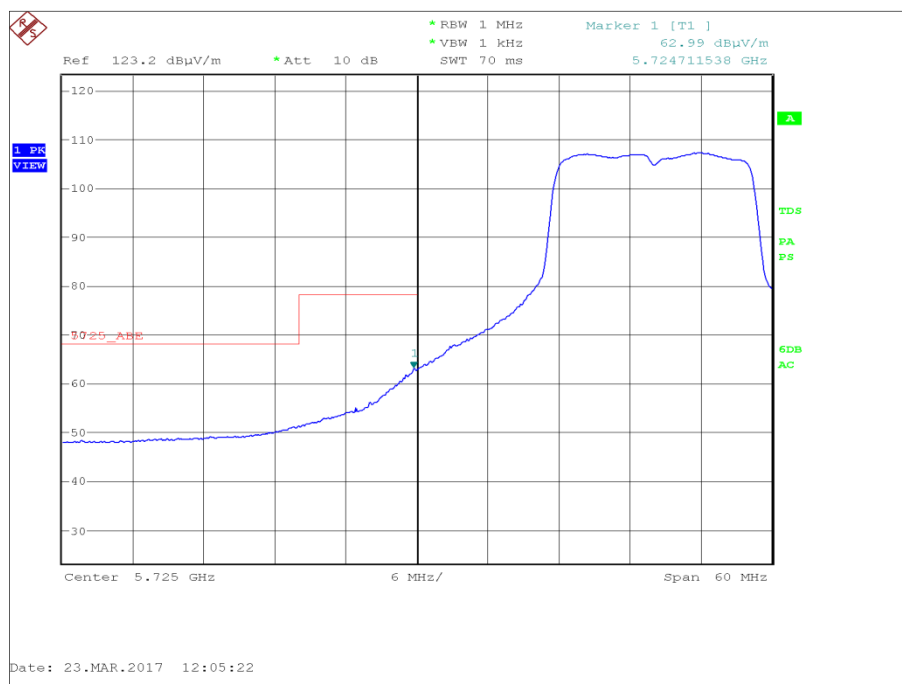
Figure 101 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5745                        | 5725                     | 63.20          |
| Widest Emission Bandwidth | MCS3          | 5745                        | 5725                     | 62.99          |
| Highest Conducted Power   | MCS0          | 5825                        | 5850                     | 66.86          |
| Widest Emission Bandwidth | MCS3          | 5825                        | 5850                     | 69.25          |

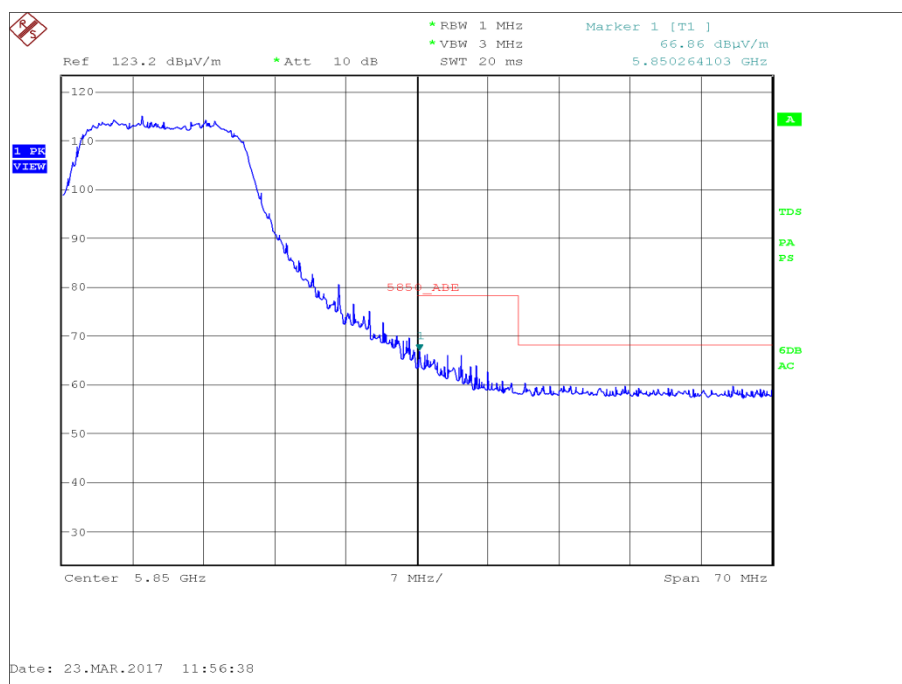
**Table 153 - U-NII 3 - Authorised Band Edge Results**



**Figure 102 - Authorised Band Edge at 5725 MHz - Highest Conducted Power**



**Figure 103 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth**



**Figure 104 - Authorised Band Edge at 5850 MHz - Highest Conducted Power**



Product Service

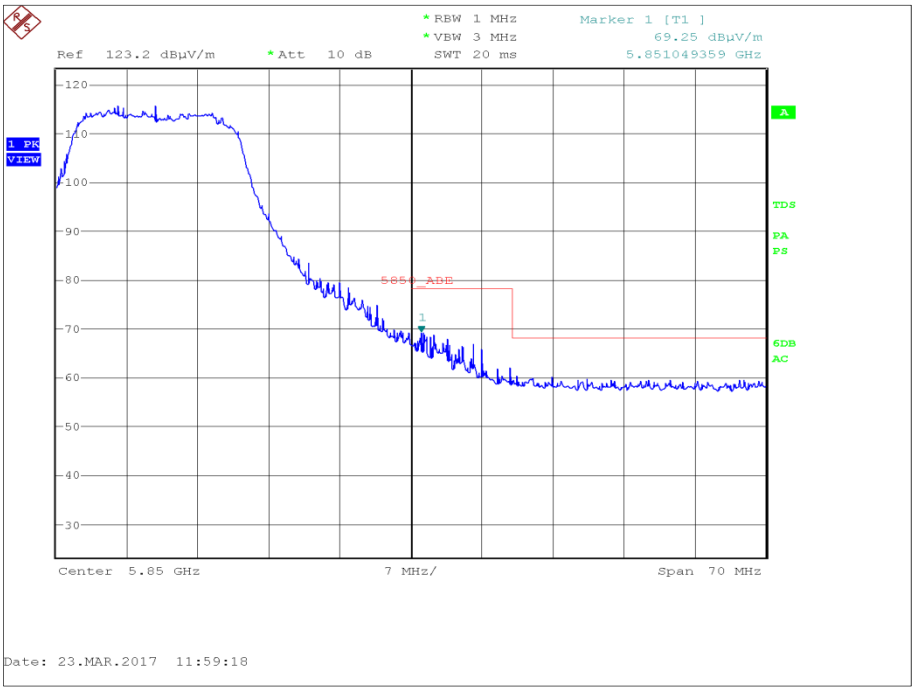


Figure 105 - Authorised Band Edge at 5850 MHz - Widest Emission Bandwidth

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

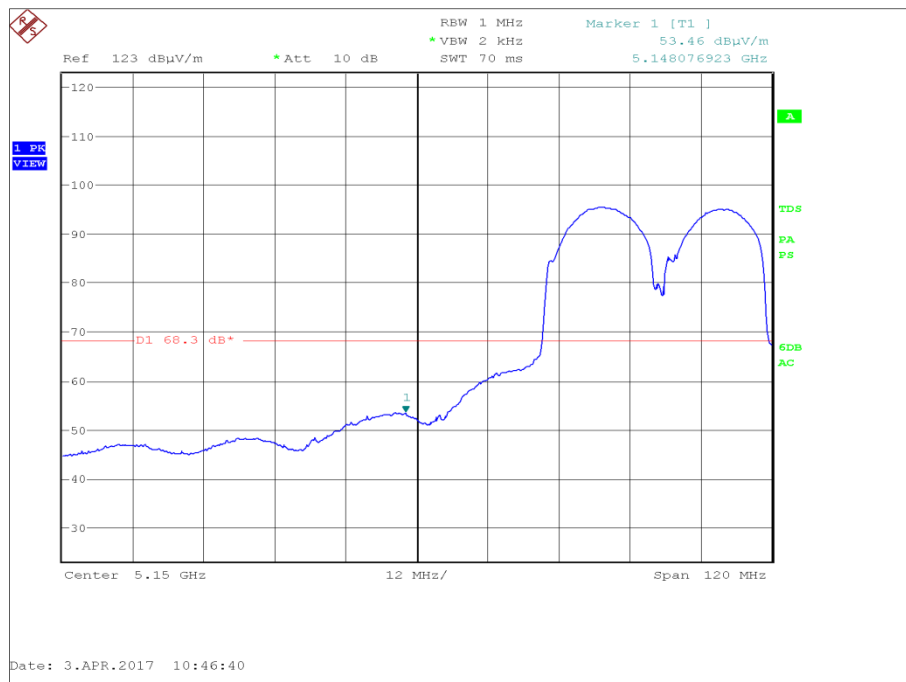
Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

**ANT795-6MT - 802.11n 40 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 53.46          |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 53.01          |

**Table 154 - UNII 1 - Authorised Band Edge Results**



**Figure 106 - U-NII 1 - Authorised Band Edge at 5150 MHz - Highest Conducted Power**



Product Service

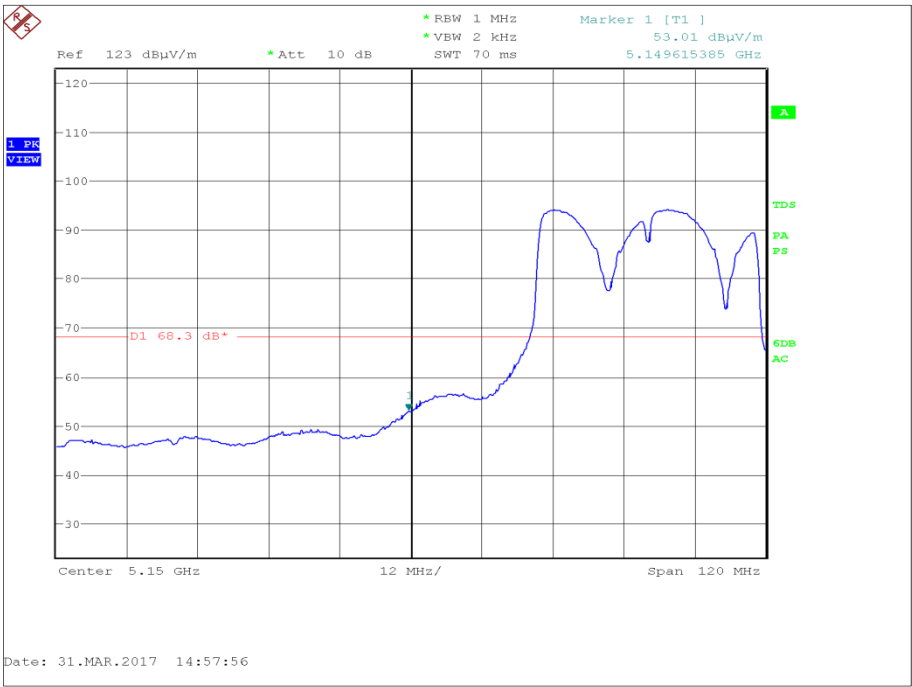


Figure 107 - U-NII 1 - Authorised Band Edge at 5150 MHz - Widest Emission Bandwidth



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5320                        | 5350                     | 50.30          |
| Widest Emission Bandwidth | MCS3          | 5320                        | 5350                     | 51.60          |

Table 155 - U-NII 2a - Authorised Band Edge Results

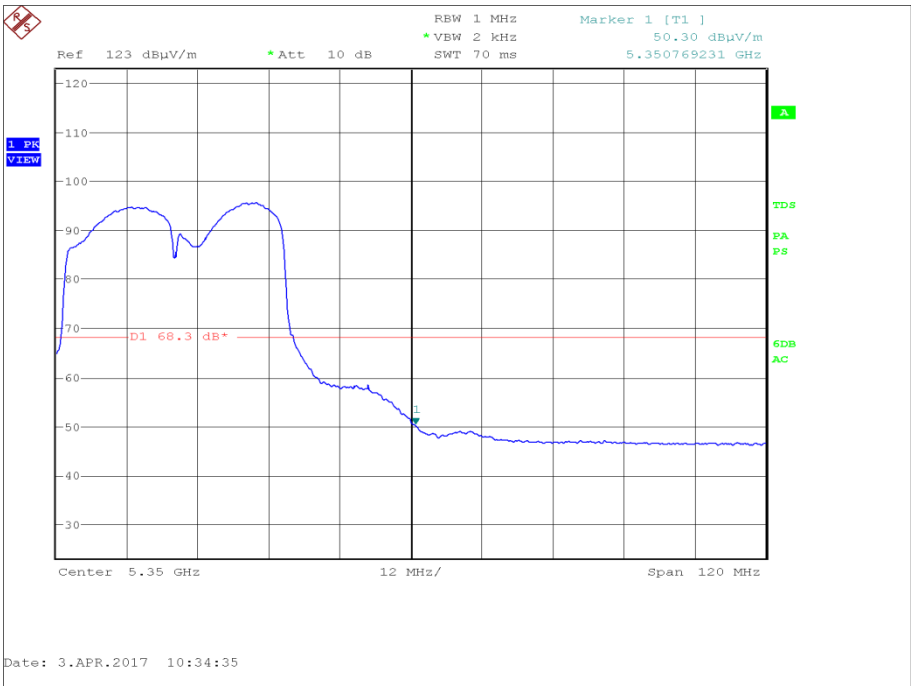


Figure 108 - U-NII 2a - Authorised Band Edge at 5350 MHz - Highest Conducted Power



Product Service

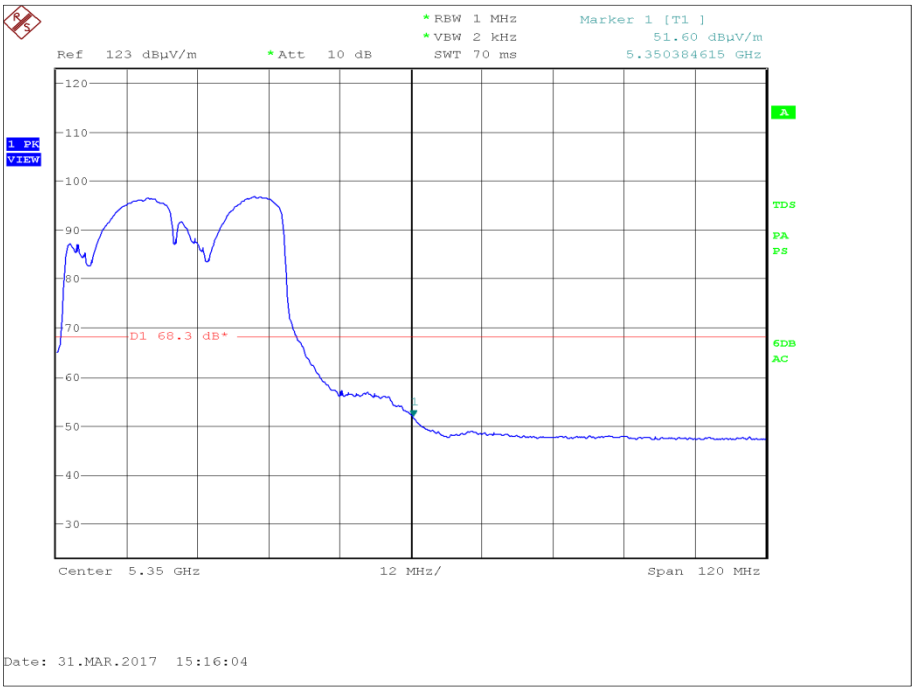
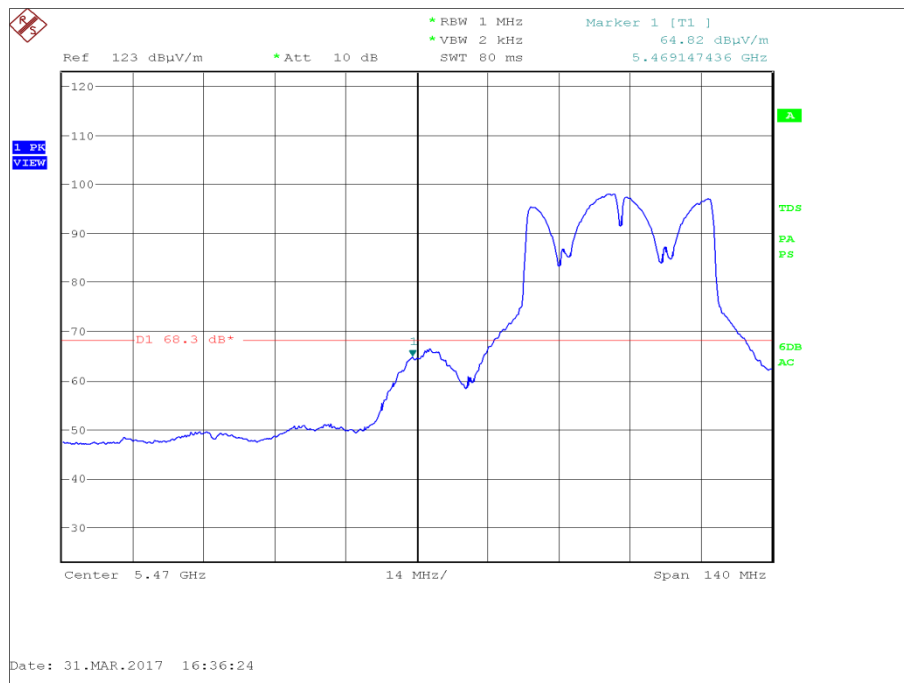


Figure 109 - U-NII 2a - Authorised Band Edge at 5350 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5510                        | 5470                     | 64.82          |
| Widest Emission Bandwidth | MCS3          | 5510                        | 5470                     | 64.33          |
| Highest Conducted Power   | MCS0          | 5670                        | 5725                     | 51.76          |
| Widest Emission Bandwidth | MCS3          | 5670                        | 5725                     | 65.26          |

**Table 156 - U-NII 2c - Authorised Band Edge Results**



**Figure 110 - Authorised Band Edge at 5470 MHz - Highest Conducted Power**



Product Service

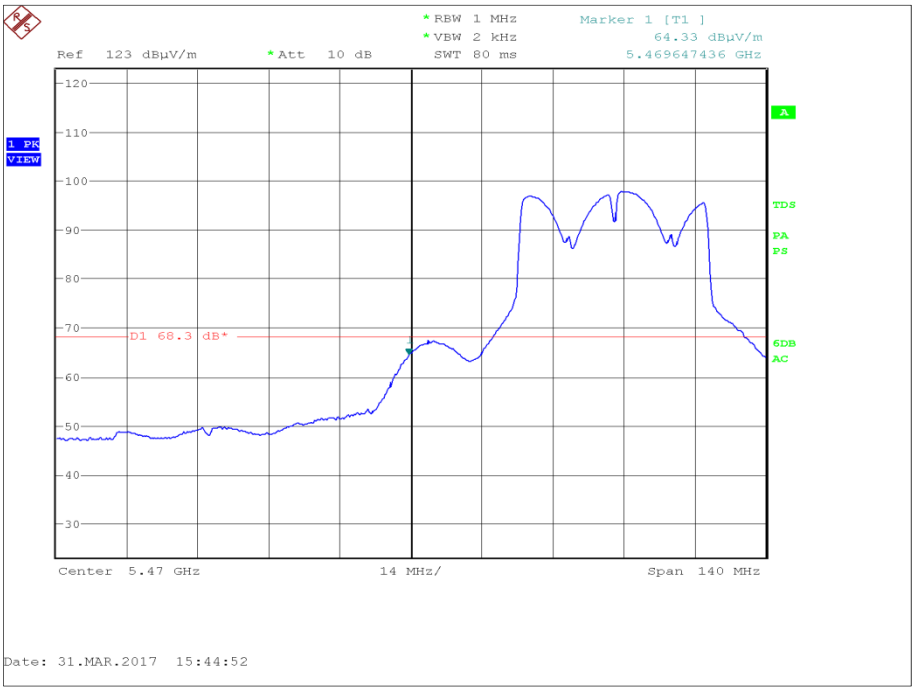


Figure 111 - Authorised Band Edge at 5470 MHz - Widest Emission Bandwidth

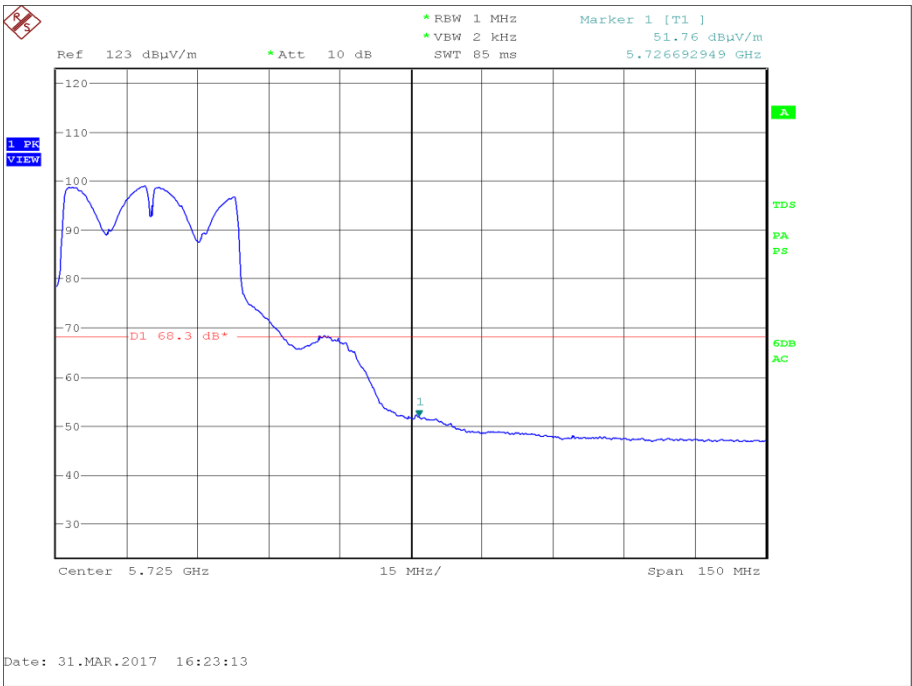


Figure 112 - Authorised Band Edge at 5725 MHz - Highest Conducted Power



Product Service

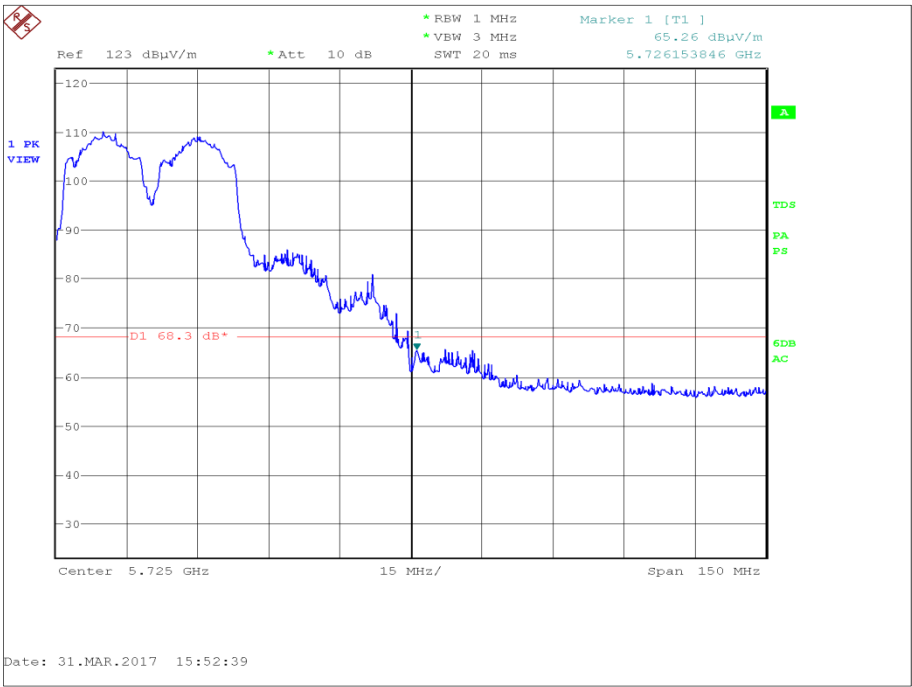
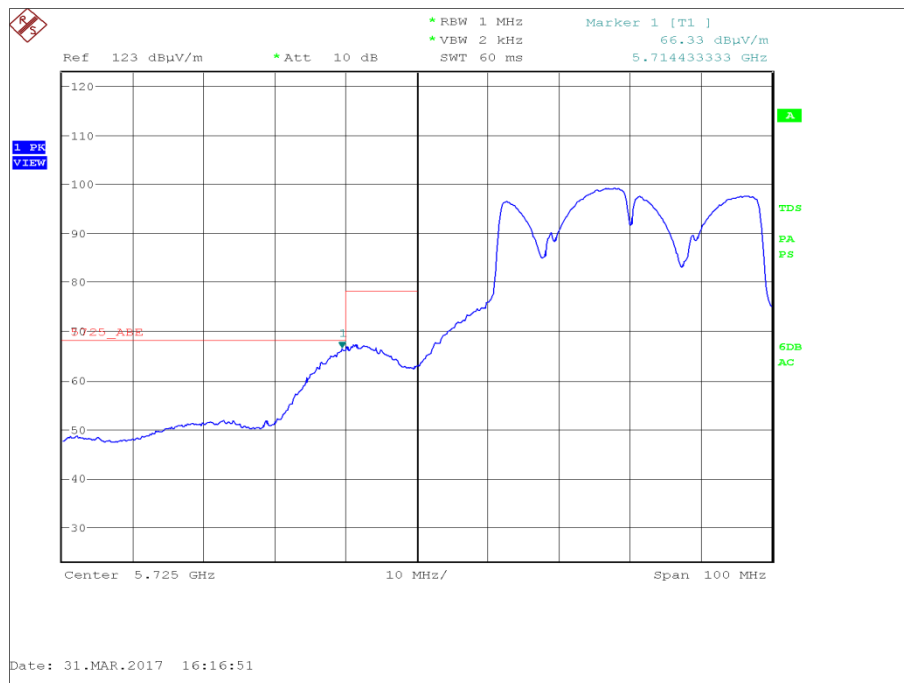


Figure 113 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5755                        | 5725                     | 66.33          |
| Widest Emission Bandwidth | MCS3          | 5755                        | 5725                     | 63.25          |
| Highest Conducted Power   | MCS0          | 5755                        | 5850                     | 59.50          |
| Widest Emission Bandwidth | MCS3          | 5755                        | 5850                     | 59.79          |

**Table 157 - U-NII 3 - Authorised Band Edge Results**



**Figure 114 - Authorised Band Edge at 5725 MHz - Highest Conducted Power**

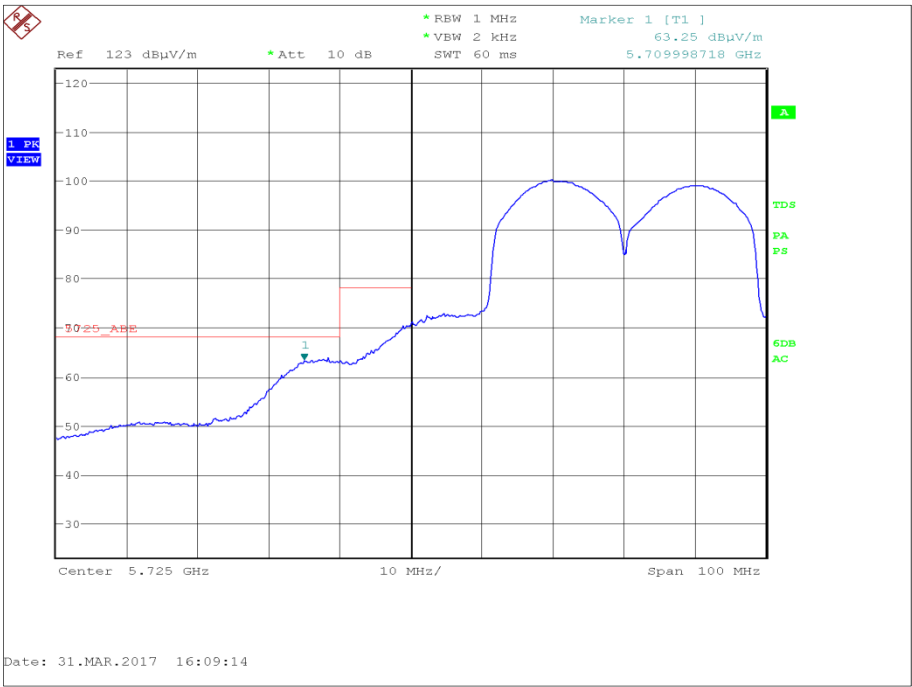


Figure 115 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

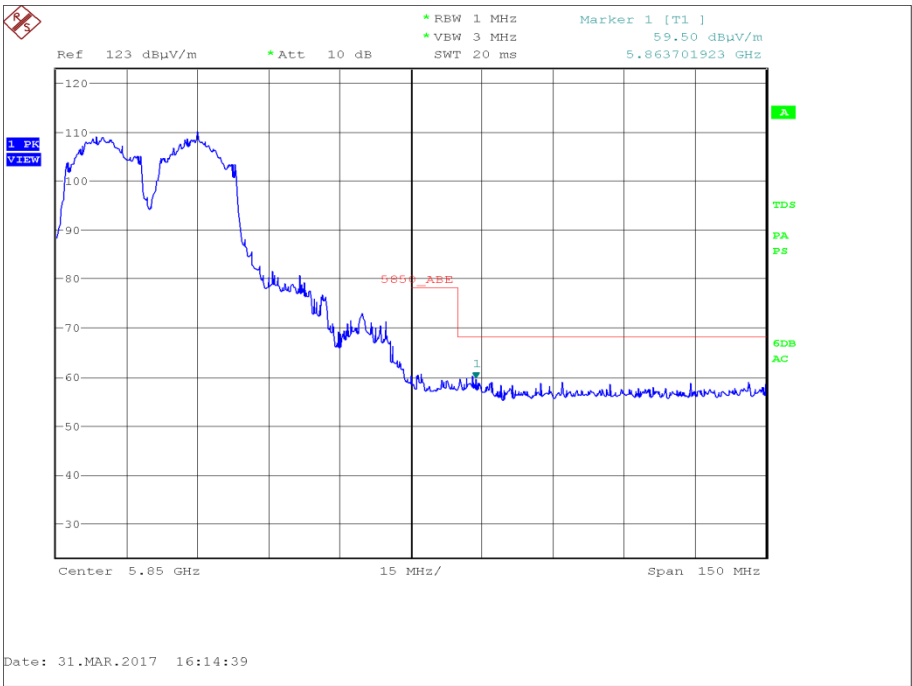


Figure 116 - Authorised Band Edge at 5850 MHz - Highest Conducted Power

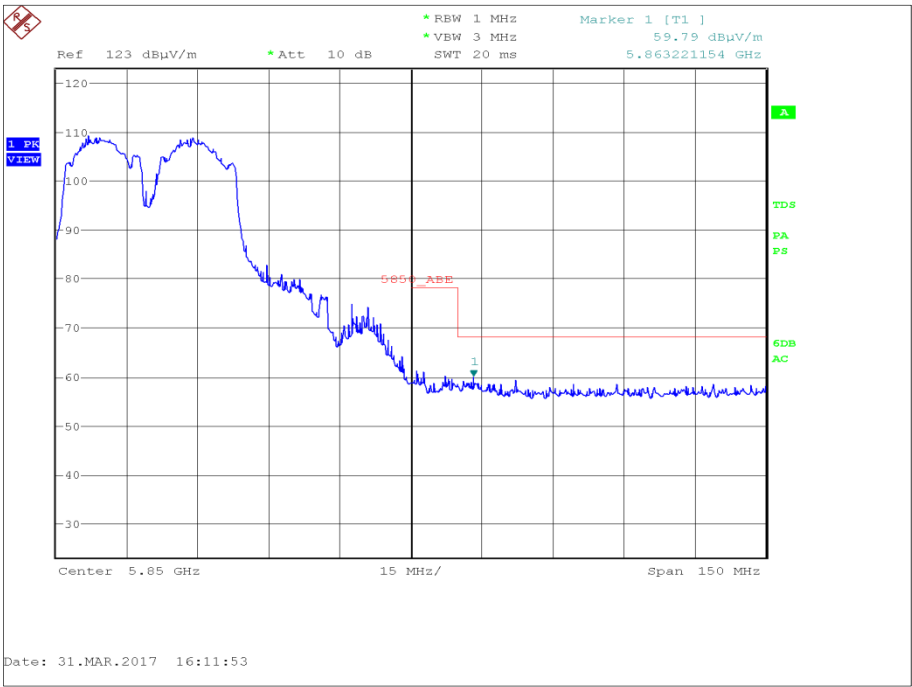


Figure 117 - Authorised Band Edge at 5850 MHz - Widest Emission Bandwidth

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.



ANT793-6DG - 802.11n 40 MHz Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 67.61          |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 51.87          |

Table 158 - UNII 1 - Authorised Band Edge Results

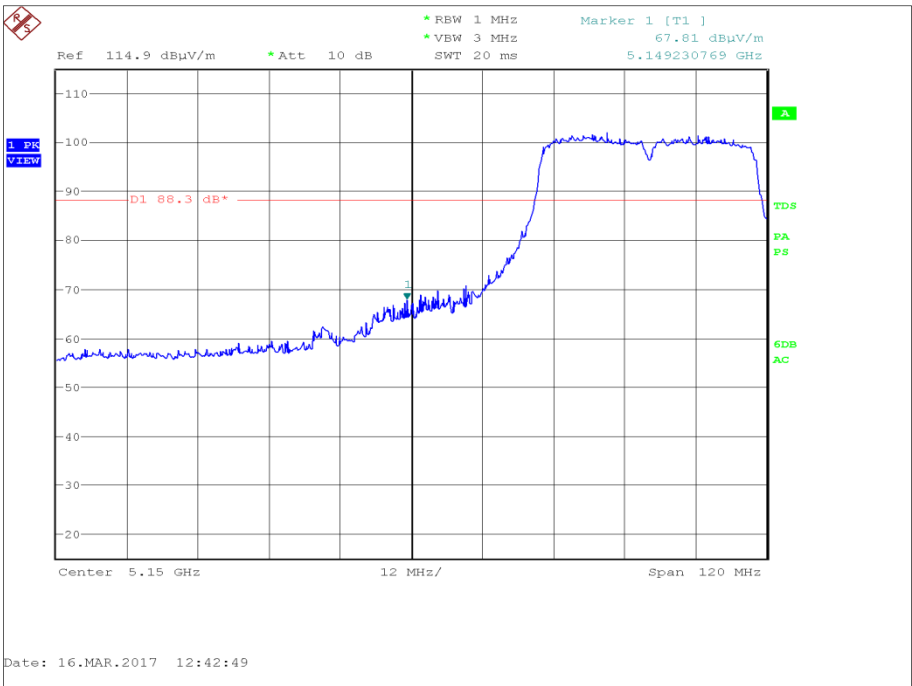


Figure 118 - U-NII 1 - Authorised Band Edge at 5150 MHz - Highest Conducted Power



Product Service

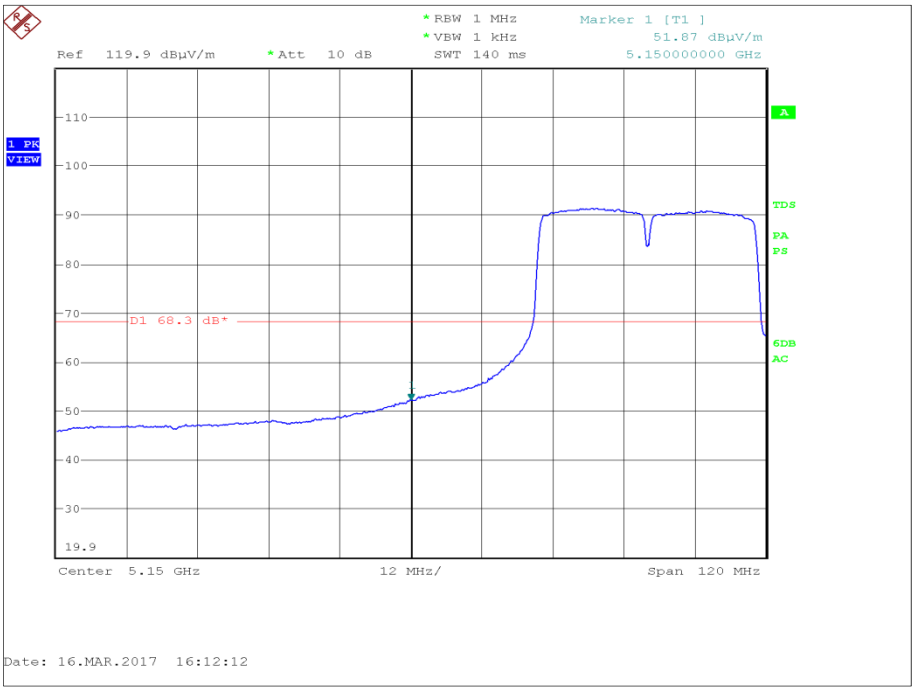
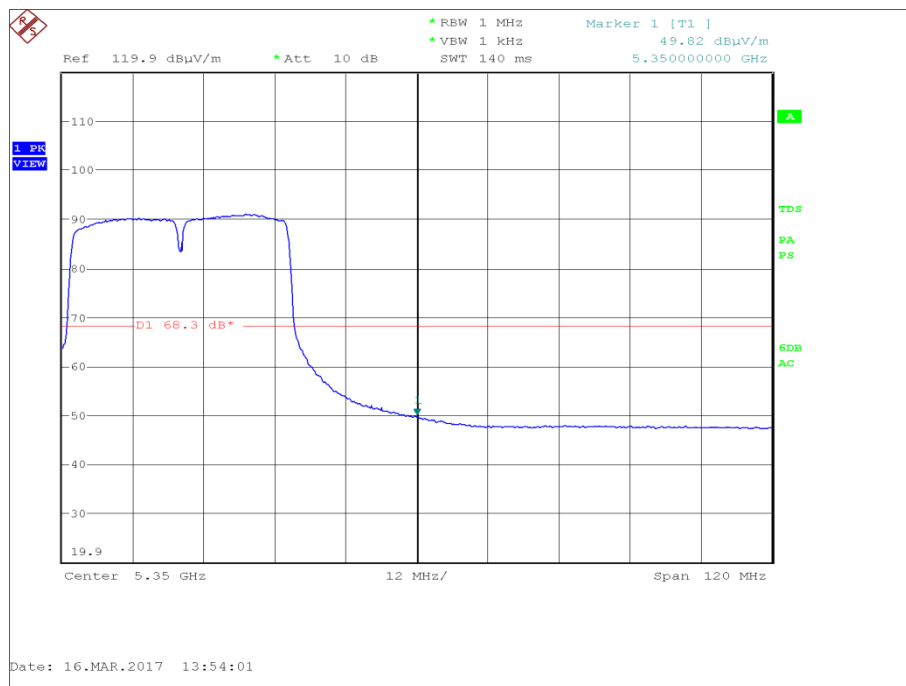


Figure 119 - U-NII 1 - Authorised Band Edge at 5150 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5310                        | 5350                     | 49.82          |
| Widest Emission Bandwidth | MCS3          | 5310                        | 5350                     | 49.22          |

**Table 159 - U-NII 2a - Authorised Band Edge Results**



**Figure 120 - U-NII 2a - Authorised Band Edge at 5350 MHz - Highest Conducted Power**



Product Service

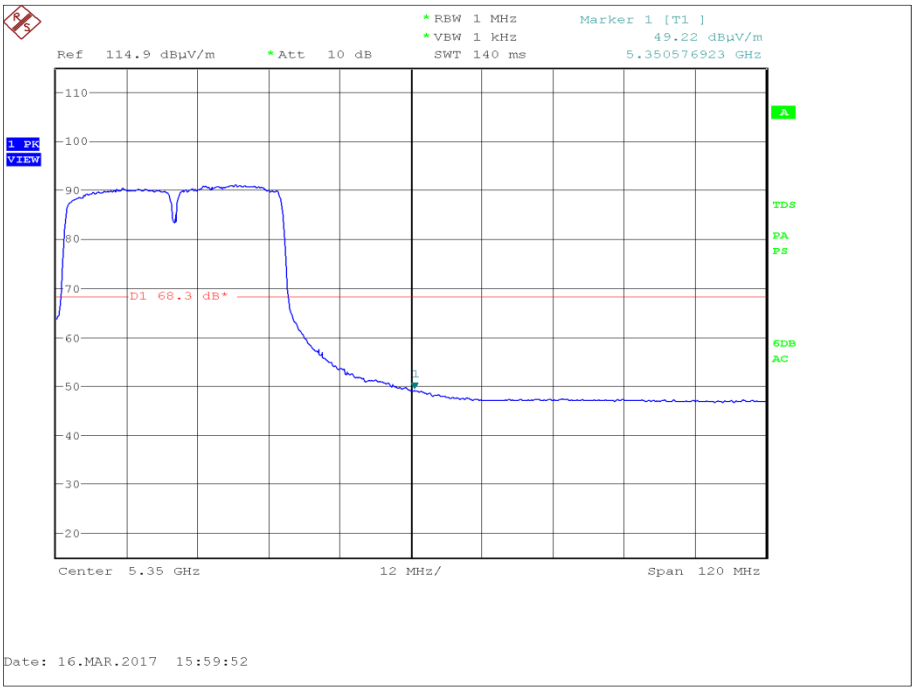
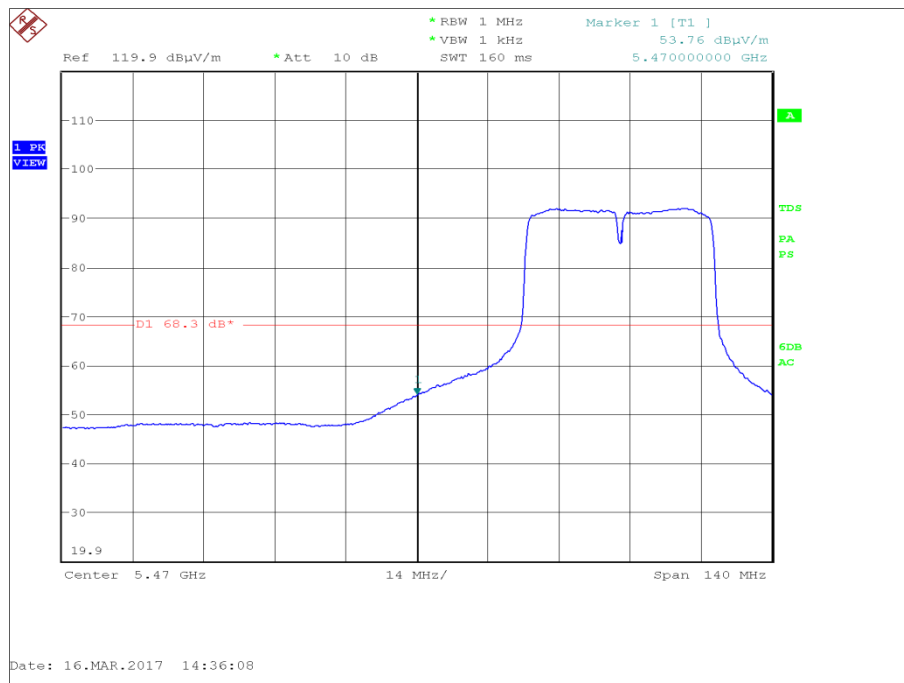


Figure 121 - U-NII 2a - Authorised Band Edge at 5350 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5510                        | 5470                     | 53.76          |
| Widest Emission Bandwidth | MCS3          | 5510                        | 5470                     | 54.10          |
| Highest Conducted Power   | MCS0          | 5670                        | 5725                     | 60.05          |
| Widest Emission Bandwidth | MCS3          | 5670                        | 5725                     | 61.12          |

**Table 160 - U-NII 2c - Authorised Band Edge Results**



**Figure 122 - Authorised Band Edge at 5470 MHz - Highest Conducted Power**

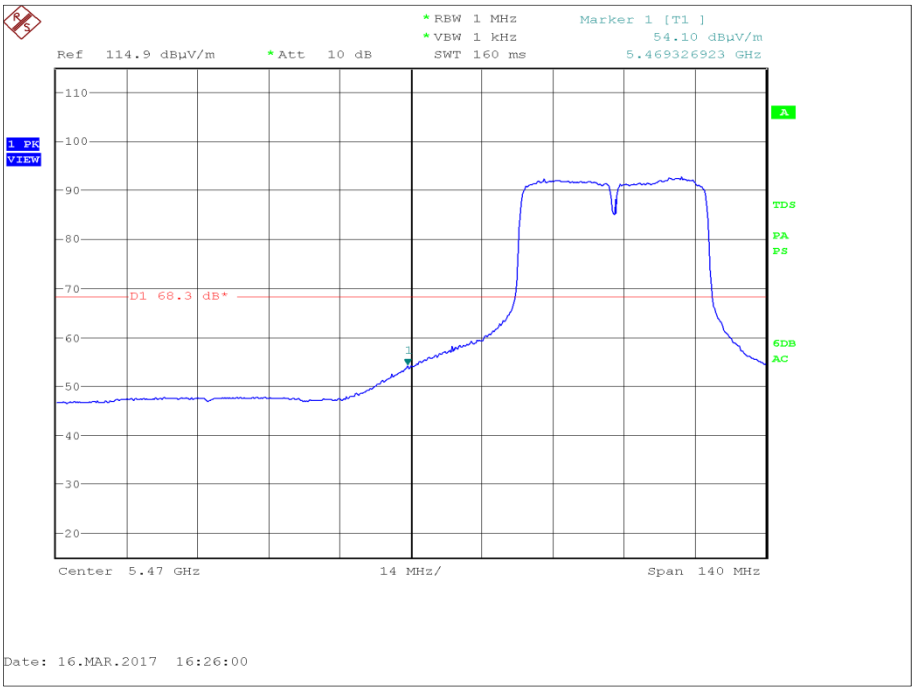


Figure 123 - Authorised Band Edge at 5470 MHz - Widest Emission Bandwidth

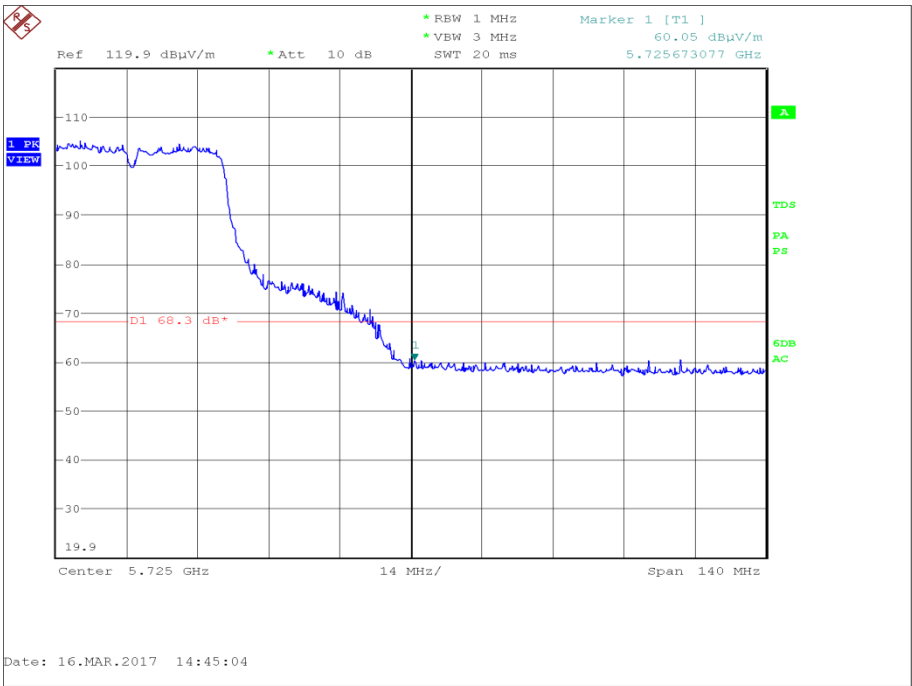


Figure 124 - Authorised Band Edge at 5725 MHz - Highest Conducted Power



Product Service

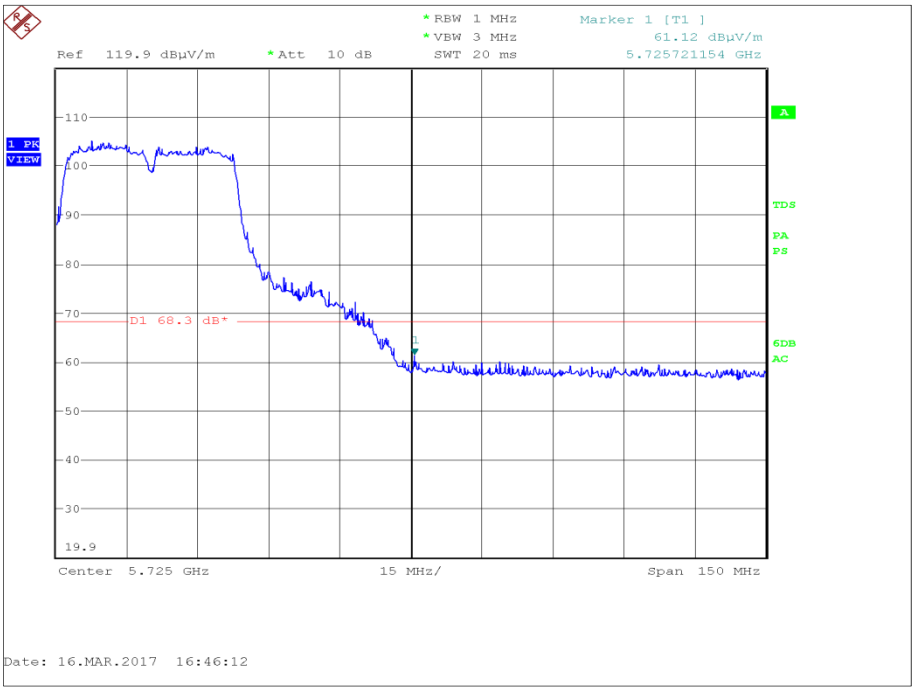
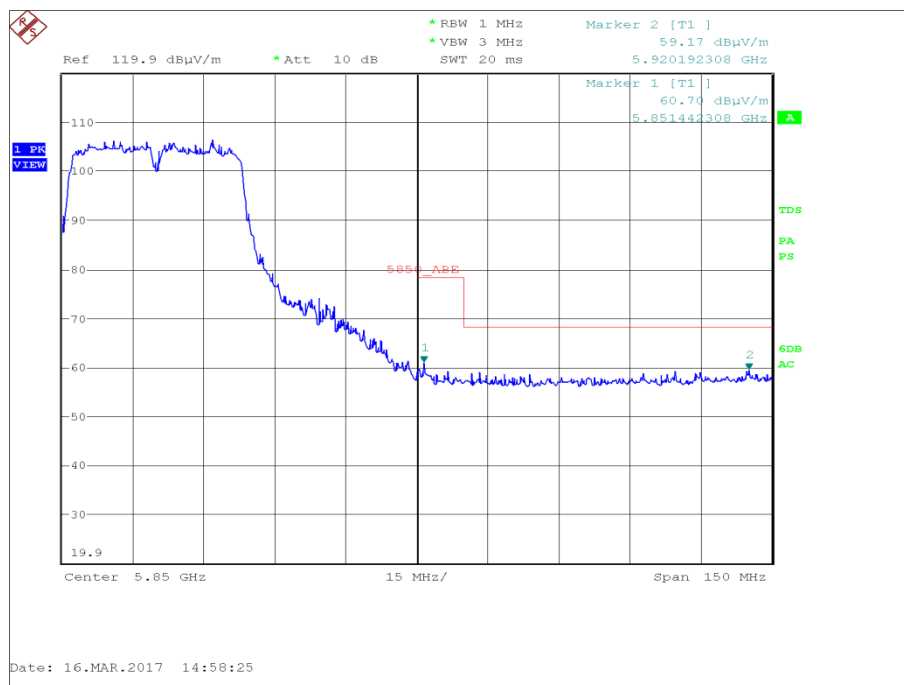


Figure 125 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5755                        | 5850                     | 59.17          |
| Highest Conducted Power   | MCS3          | 5755                        | 5725                     | 59.14          |
| Widest Emission Bandwidth | MCS0          | 5755                        | 5725                     | 57.98          |
| Widest Emission Bandwidth | MCS3          | 5755                        | 5850                     | 59.09          |

**Table 161 - U-NII 3 - Authorised Band Edge Results**



**Figure 126 - Authorised Band Edge at 5850 MHz - Highest Conducted Power**



Product Service

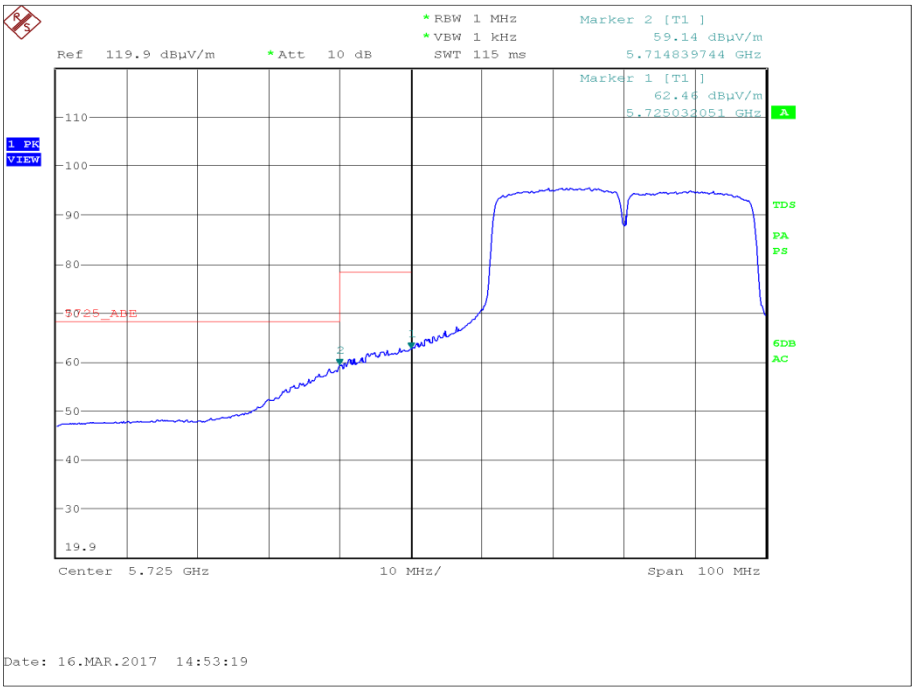


Figure 127 - Authorised Band Edge at 5725 MHz - Highest Conducted Power

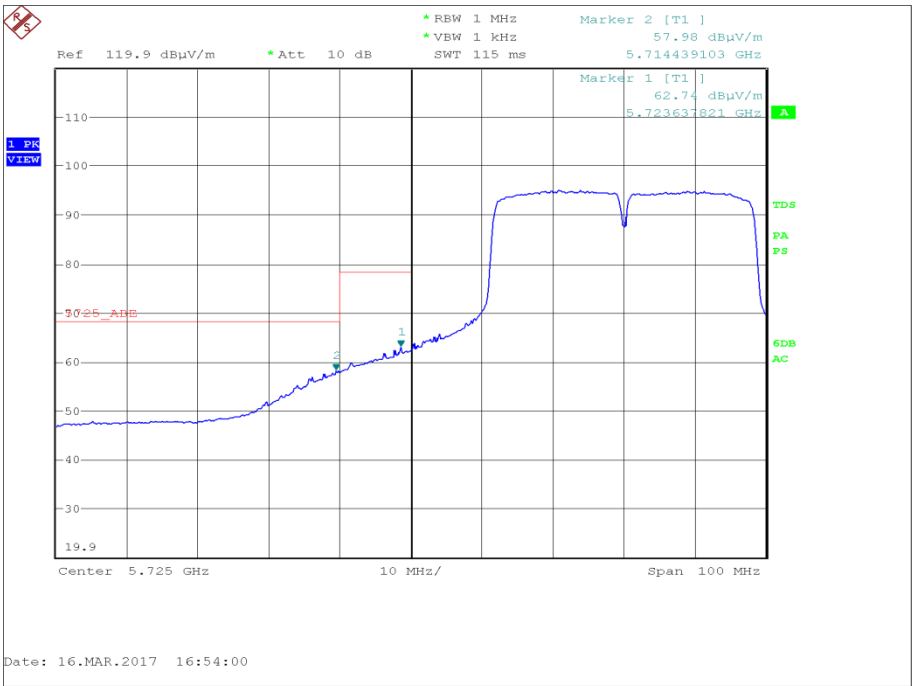


Figure 128 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth



Product Service

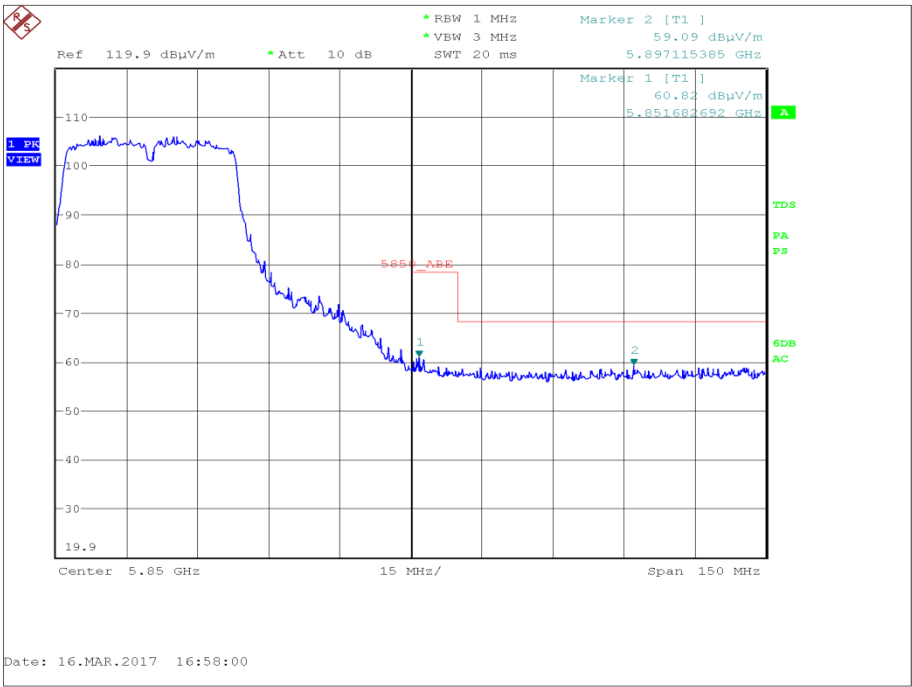


Figure 129 - Authorised Band Edge at 5850 MHz - Widest Emission Bandwidth

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

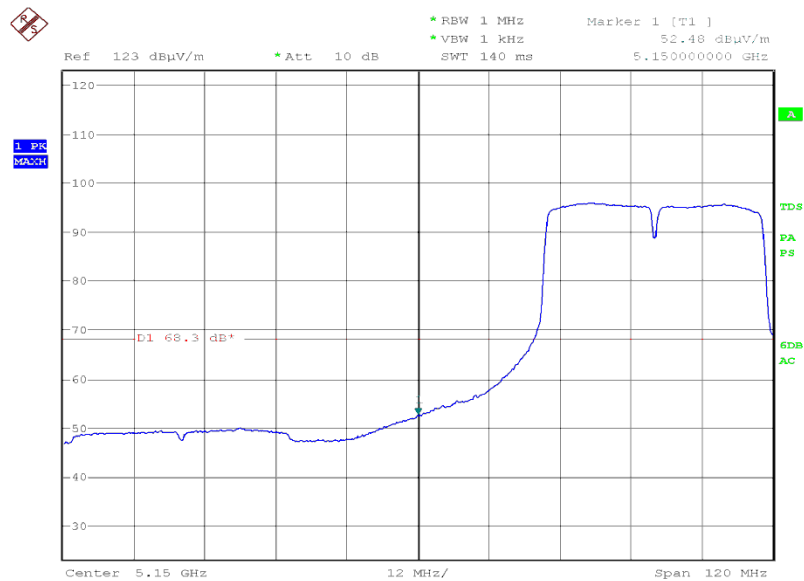
Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

**ANT793-8DK + 10m Cable - 802.11n 40 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 52.48          |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 53.44          |

**Table 162 - UNII 1 - Authorised Band Edge Results**

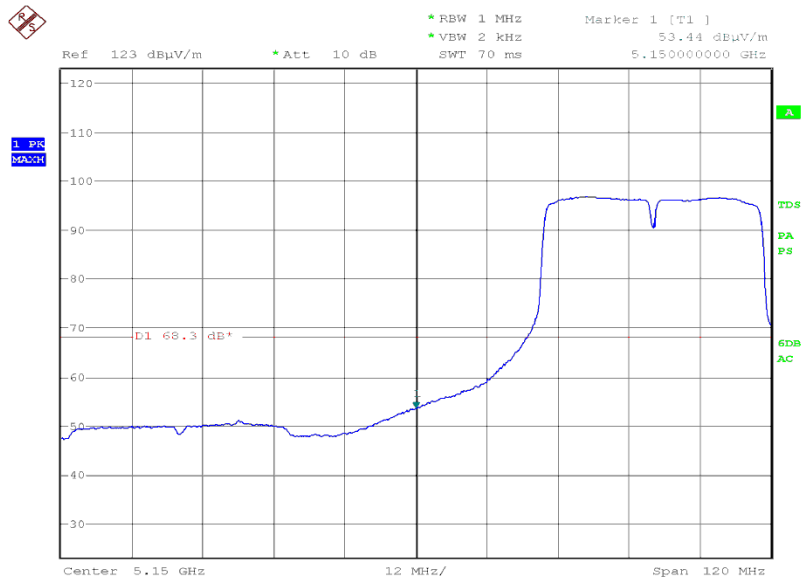


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**Figure 130 - U-NII 1 - Authorised Band Edge at 5150 MHz - Highest Conducted Power**



Product Service



Date: 14.JUN.2017 19:52:00

Figure 131 - U-NII 1 - Authorised Band Edge at 5150 MHz - Widest Emission Bandwidth



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 61.86          |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 51.00          |

Table 163 - U-NII 2a - Authorised Band Edge Results

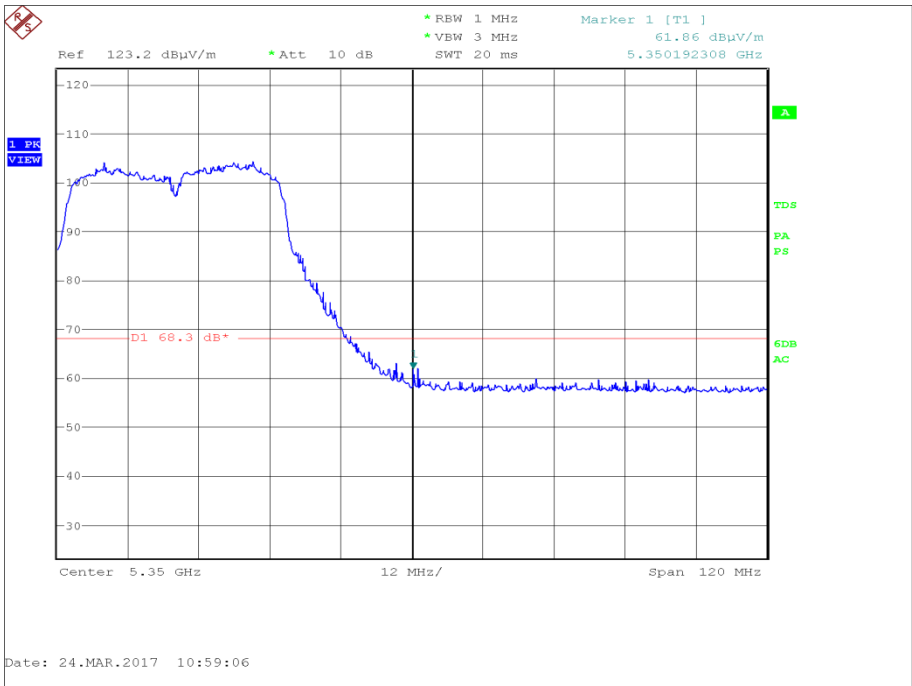


Figure 132 - U-NII 2a - Authorised Band Edge at 5350 MHz - Highest Conducted Power



Product Service

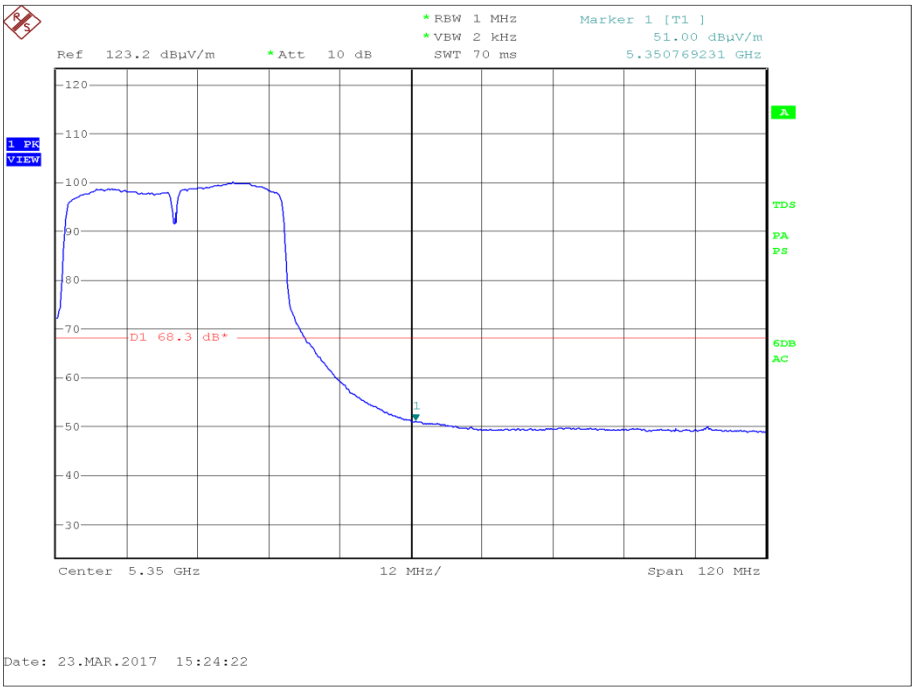
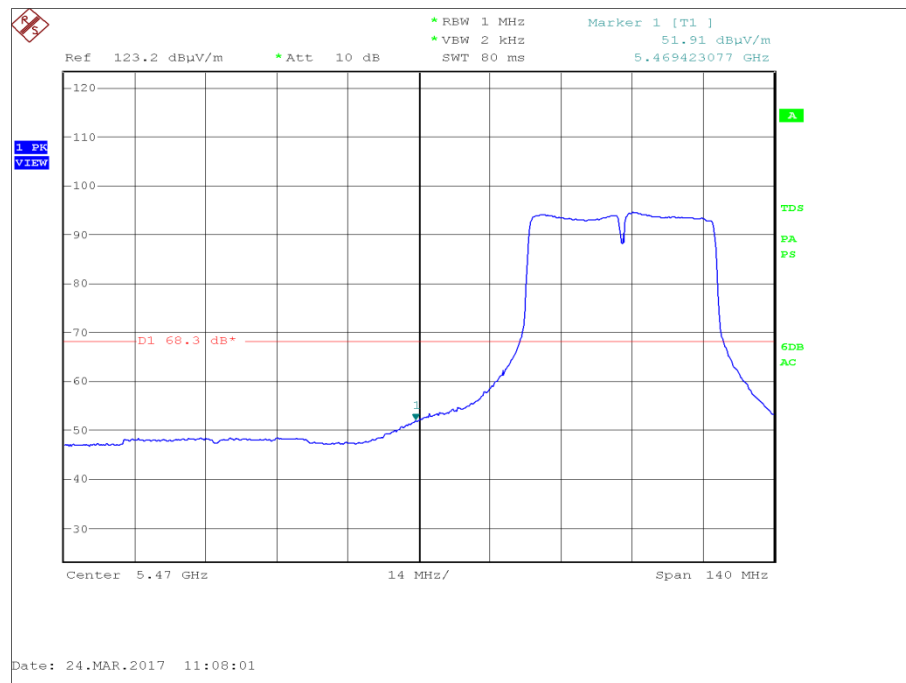


Figure 133 - U-NII 2a - Authorised Band Edge at 5350 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5510                        | 5470                     | 51.91          |
| Widest Emission Bandwidth | MCS3          | 5510                        | 5470                     | 56.60          |
| Highest Conducted Power   | MCS0          | 5670                        | 5725                     | 58.81          |
| Widest Emission Bandwidth | MCS3          | 5670                        | 5725                     | 49.75          |

**Table 164 - U-NII 2c - Authorised Band Edge Results**



**Figure 134 - Authorised Band Edge at 5470 MHz - Highest Conducted Power**



Product Service

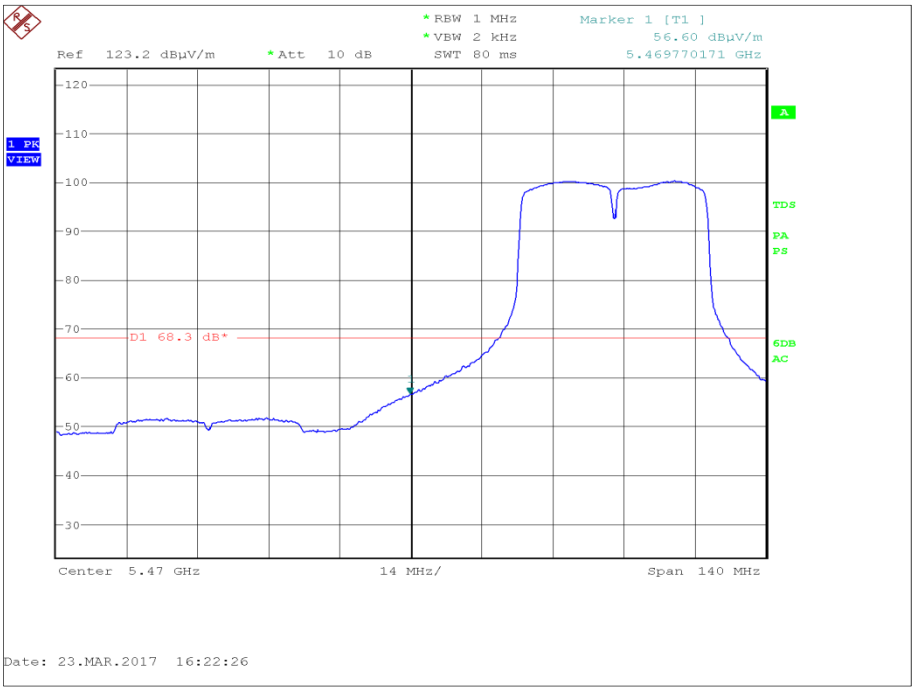


Figure 135 - Authorised Band Edge at 5470 MHz - Widest Emission Bandwidth

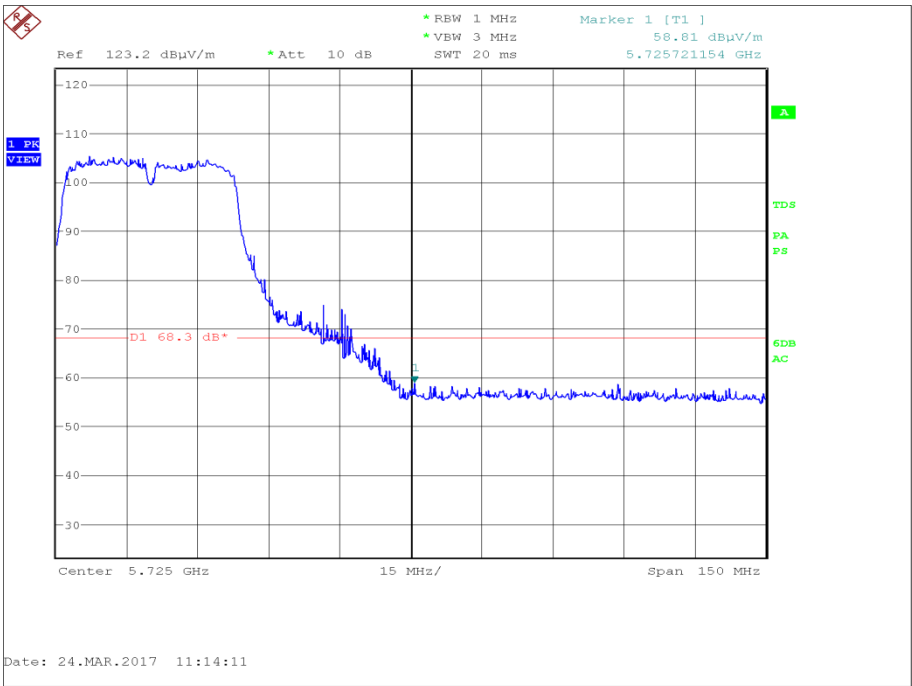


Figure 136 - Authorised Band Edge at 5725 MHz - Highest Conducted Power



Product Service

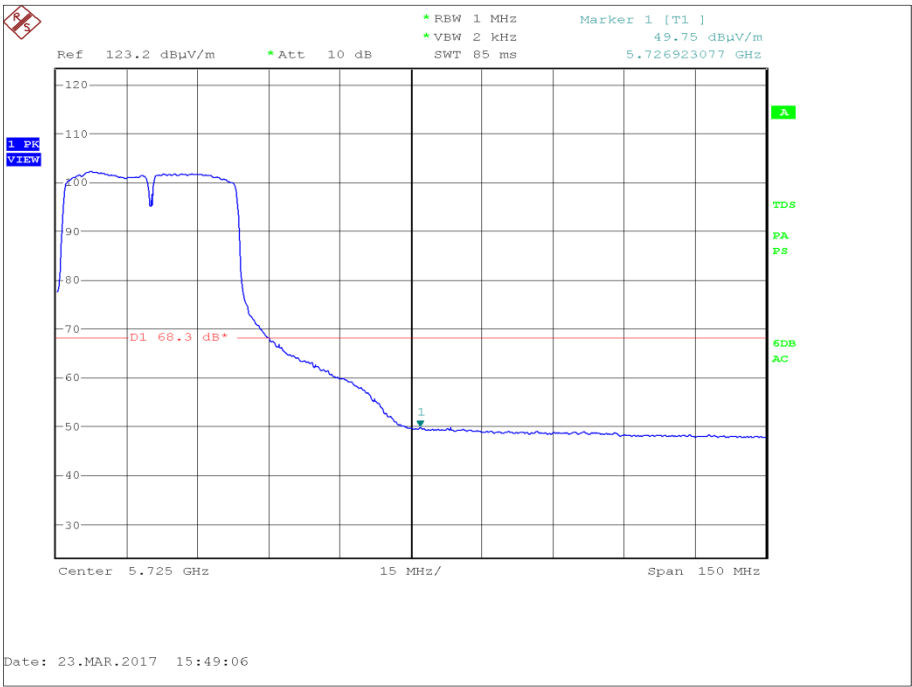
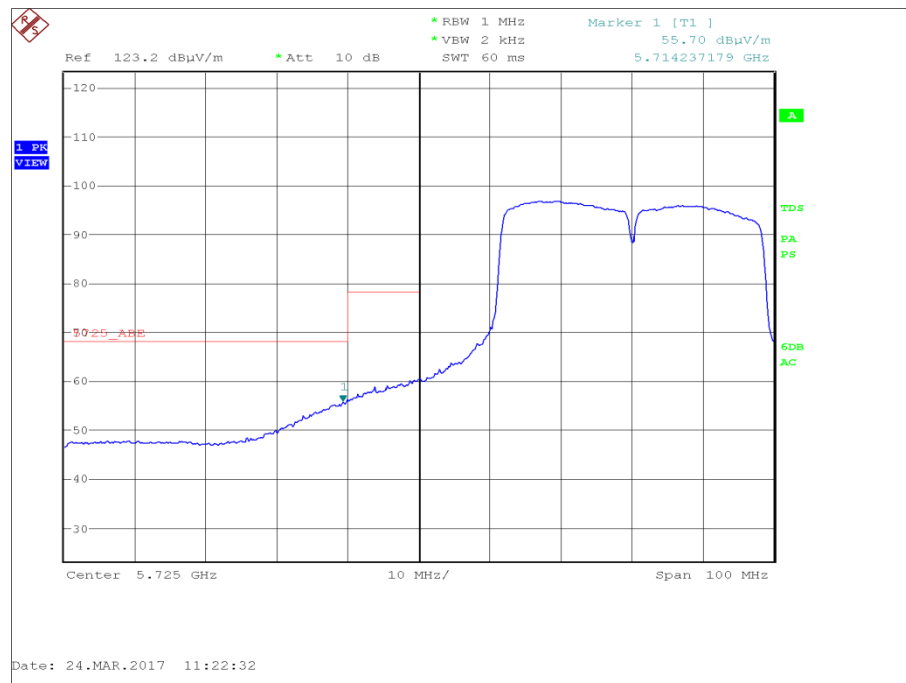


Figure 137 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Level (dBuV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|----------------|
| Highest Conducted Power   | MCS0          | 5755                        | 5725                     | 55.70          |
| Widest Emission Bandwidth | MCS3          | 5755                        | 5725                     | 63.69          |
| Highest Conducted Power   | MCS0          | 5755                        | 5850                     | 57.23          |
| Widest Emission Bandwidth | MCS3          | 5755                        | 5850                     | 59.87          |

**Table 165 - U-NII 3 - Authorised Band Edge Results**



**Figure 138 - Authorised Band Edge at 5725 MHz - Highest Conducted Power**

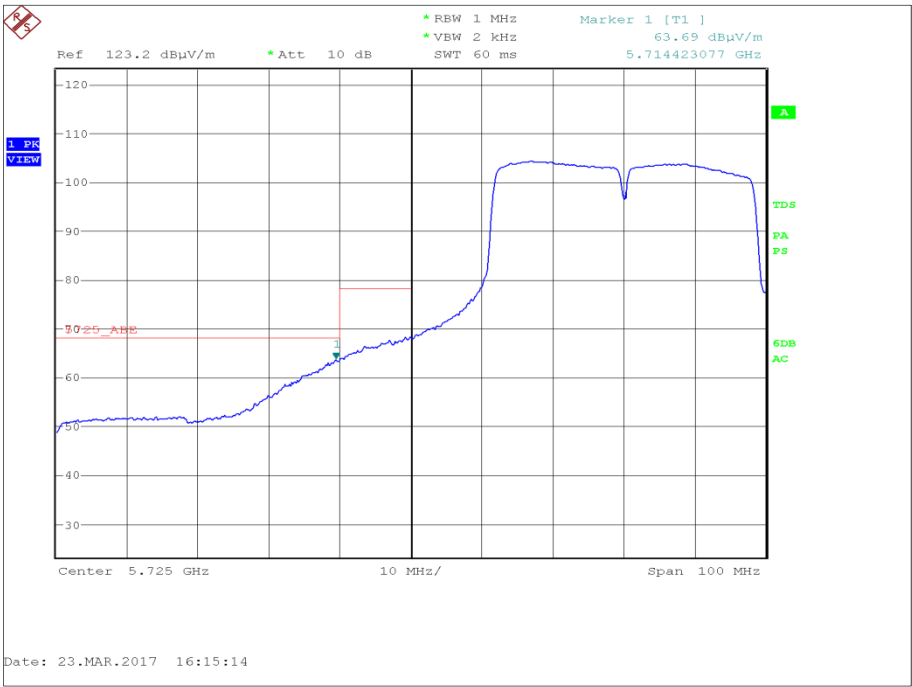


Figure 139 - Authorised Band Edge at 5725 MHz - Widest Emission Bandwidth

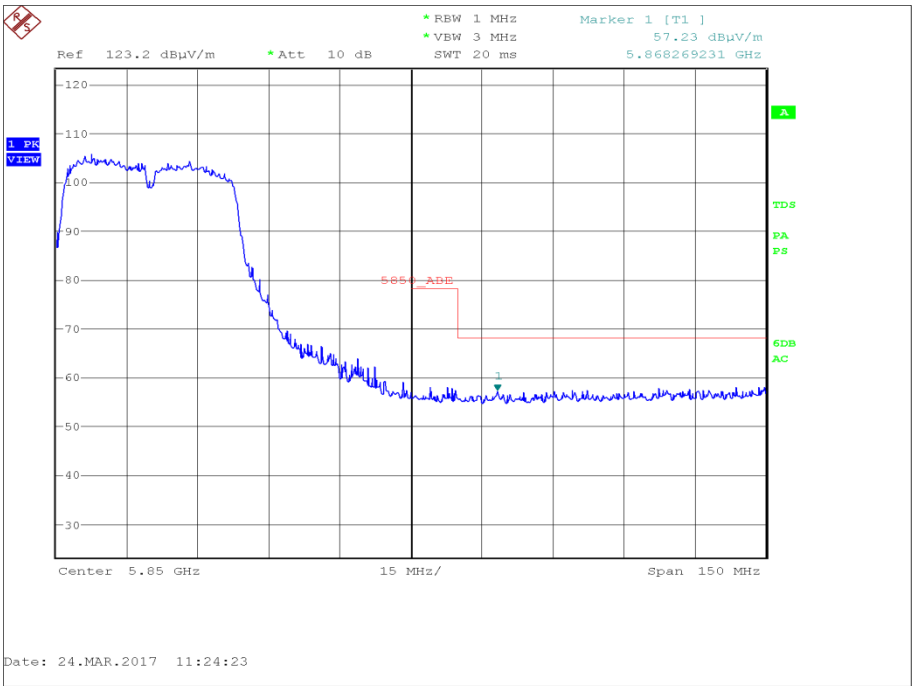


Figure 140 - Authorised Band Edge at 5850 MHz - Highest Conducted Power



Product Service

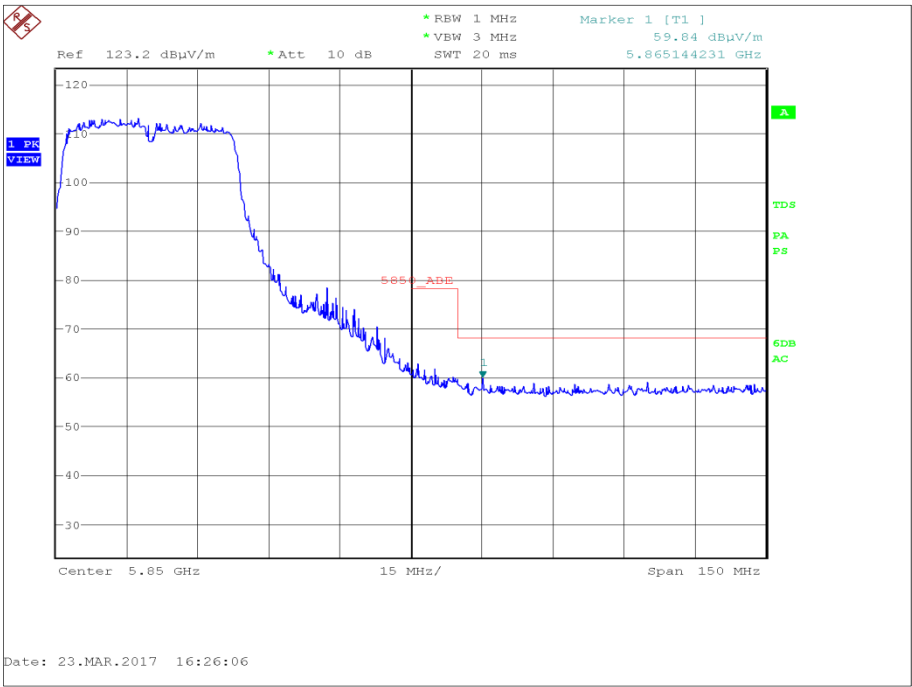


Figure 141 - Authorised Band Edge at 5850 MHz - Widest Emission Bandwidth

FCC 47 CFR Part 15E, Limit Clause 15.407(b)(1)(2)(3)(4)

For transmitters operating in the 5.15-5.25 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.25-5.35 GHz band:  $\leq -27$  dBm/MHz outside 5150-5350 MHz.

For transmitters operating in the 5.47-5.725 GHz band:  $\leq -27$  dBm/MHz outside 5470-5725 MHz

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Industry Canada RSS-247, Limit Clause 6.2.1.2, 6.2.2.2, 6.2.3.2 and 6.2.4.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB.

For transmitters with operating frequencies in the bands 5250-5350 MHz and 5470-5725 MHz, all emissions outside the band 5250-5350 MHz and 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

## 2.4.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument                          | Manufacturer    | Type No           | TE No | Calibration Period (months) | Calibration Due |
|-------------------------------------|-----------------|-------------------|-------|-----------------------------|-----------------|
| Hygrometer                          | Rotronic        | A1                | 1388  | 12                          | 13-Apr-2017     |
| Hygrometer                          | Rotronic        | A1                | 1388  | 12                          | 04-May-2018     |
| Screened Room (5)                   | Rainford        | Rainford          | 1545  | 36                          | 20-Dec-2017     |
| Turntable Controller                | Inn-Co GmbH     | CO 1000           | 1606  | -                           | TU              |
| Cable (N-N, 8m)                     | Rhophase        | NPS-2302-8000-NPS | 3248  | -                           | TU              |
| EMI Test Receiver                   | Rohde & Schwarz | ESU40             | 3506  | 12                          | 12-Nov-2017     |
| Multimeter                          | Fluke           | 177               | 3813  | 12                          | 14-Sep-2017     |
| Tilt Antenna Mast                   | matur GmbH      | TAM 4.0-P         | 3916  | -                           | TU              |
| Mast Controller                     | matur GmbH      | NCD               | 3917  | -                           | TU              |
| Cable (Yellow, Rx, Km-Km 2m)        | Scott Cables    | KPS-1501-2000-KPS | 4527  | -                           | O/P Mon         |
| Double Ridge Broadband Horn Antenna | Schwarzbeck     | BBHA 9120 B       | 4848  | 12                          | 17-Feb-2018     |

**Table 166**

TU - Traceability Unscheduled  
 O/P Mon – Output Monitored



## 2.5 Restricted Band Edges

### 2.5.1 Specification Reference

FCC 47 CFR Part 15E, Clause 15.205  
Industry Canada RSS-GEN, Clause 8.10

### 2.5.2 Equipment Under Test and Modification State

MSN65-W1-M12-E2, S/N: Not Serialised (75938097-TSR0001) - Modification State 0

### 2.5.3 Date of Test

15-March-2017, 31-March-2017 and 14-June-2017

### 2.5.4 Test Method

The test was performed in accordance with ANSI C63.10, clause 6.10.5.

Initially measurements were made with a 1 MHz/3MHz RBW/VBW to obtain a peak result, however where the peak result did not pass the average limit, the measurement was then repeated using a 1 kHz VBW to obtain an averaged result. In these cases only the average plot is shown.

### 2.5.5 Environmental Conditions

Ambient Temperature 18.8 - 19.1 °C  
Relative Humidity 33.0 - 40.0 %

### 2.5.6 Test Results

ANT795-6MT - 802.11a

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBµV/m) | Average Level (dBµV/m) |
|---------------------------|---------------|-----------------------------|---------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5150                      | 68.55               | 52.23                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5150                      | 67.36               | 49.99                  |

**Table 167 - UNII 1 - Restricted Band Edge Results**

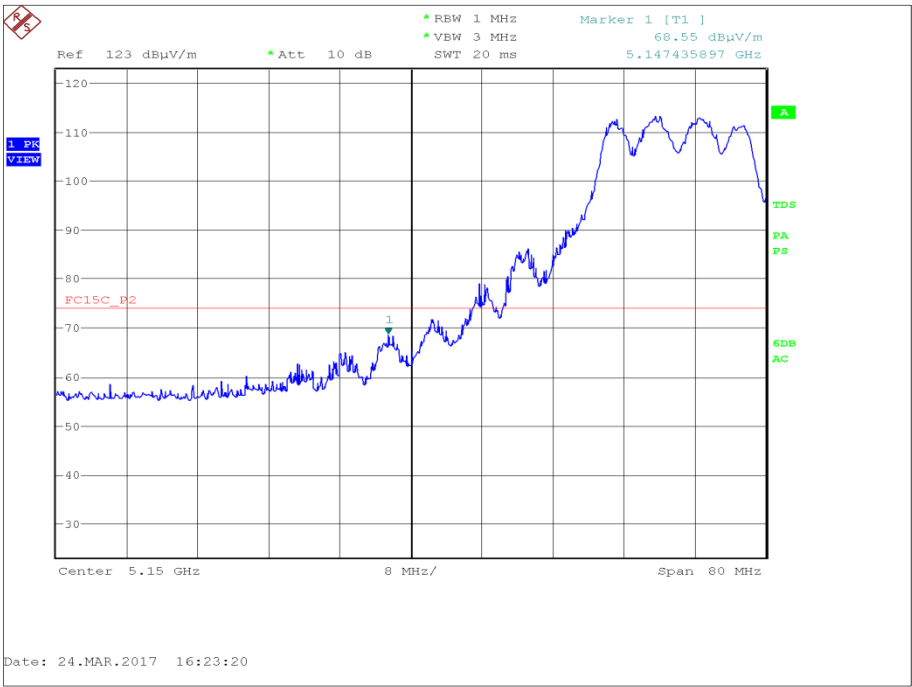


Figure 142 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak

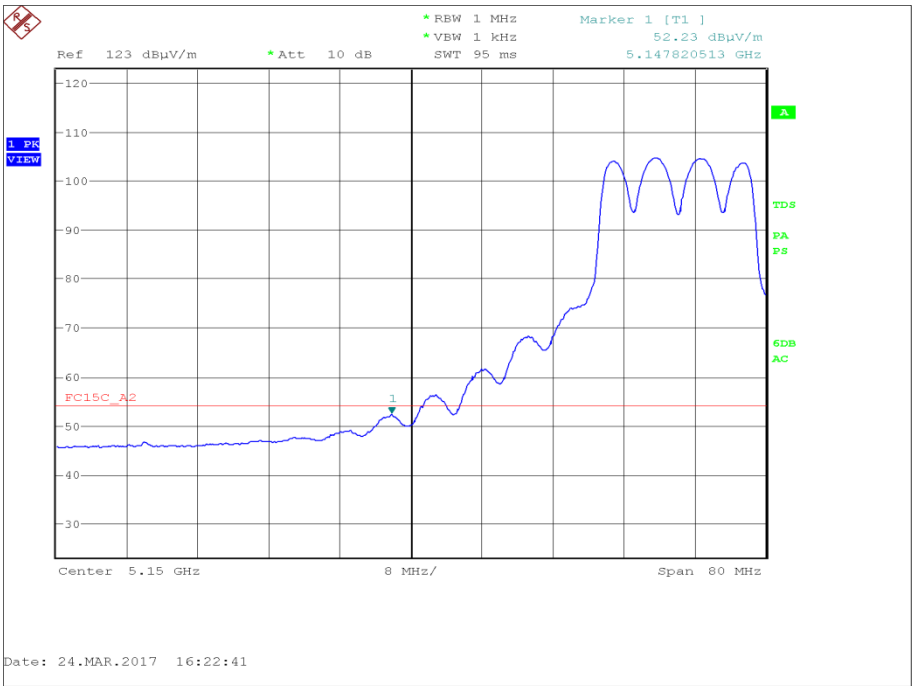
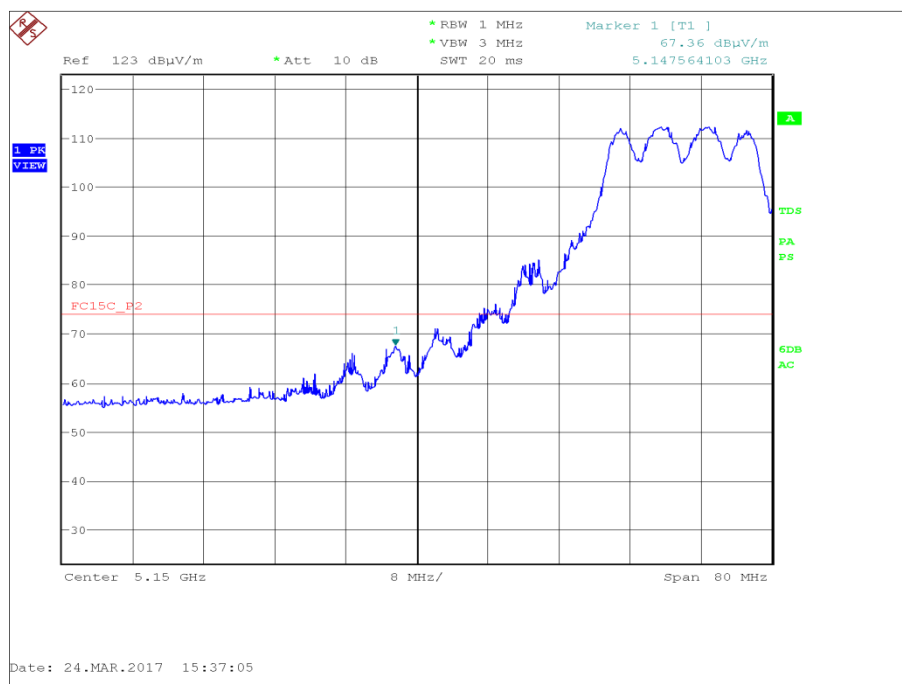
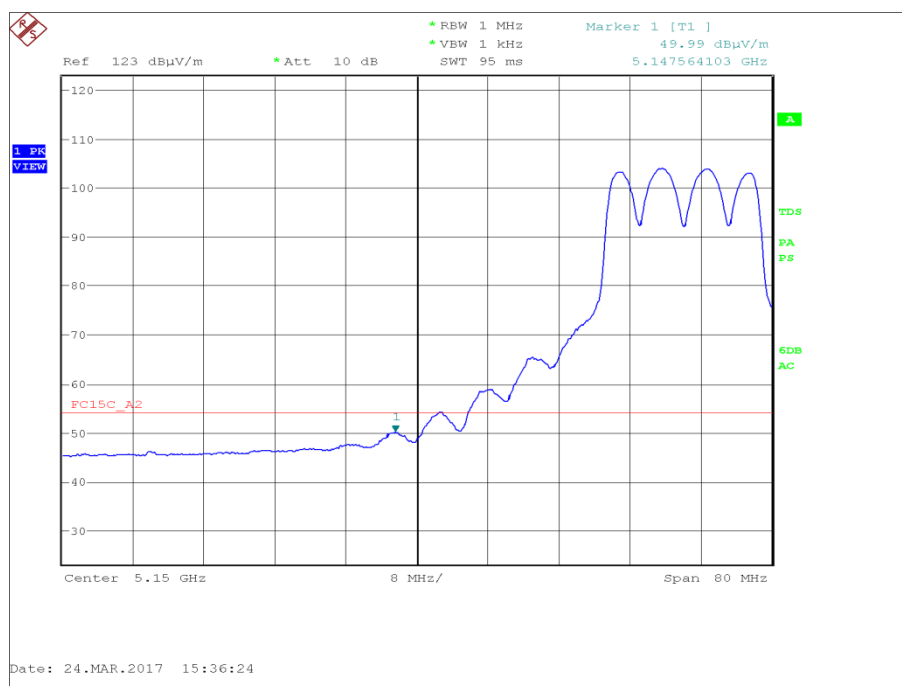


Figure 143 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average



**Figure 144 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak**



**Figure 145 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average**

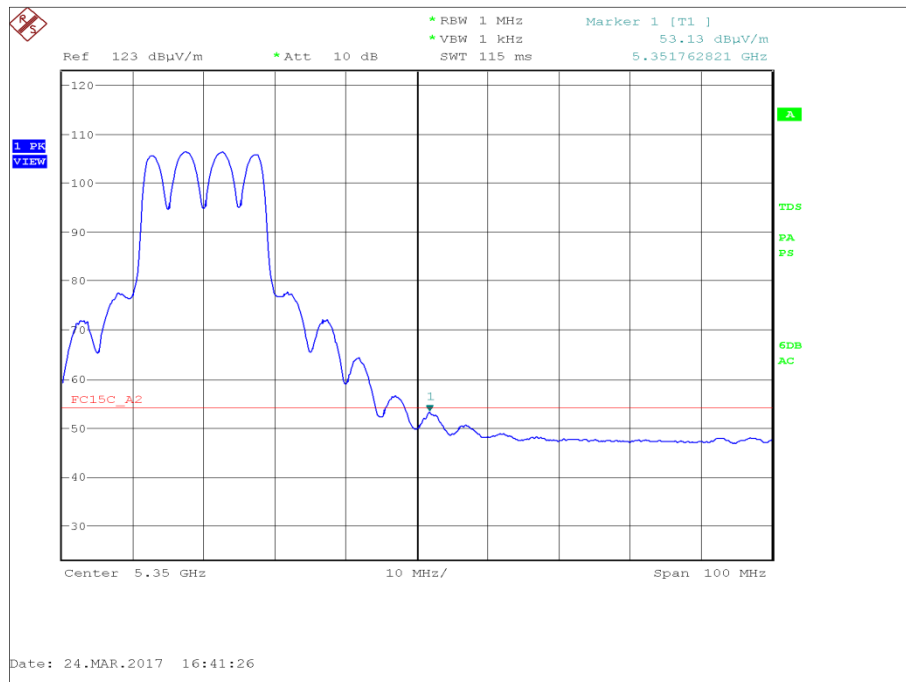


| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|---------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                      | 67.38               | 53.13                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                      | 70.24               | 53.54                  |

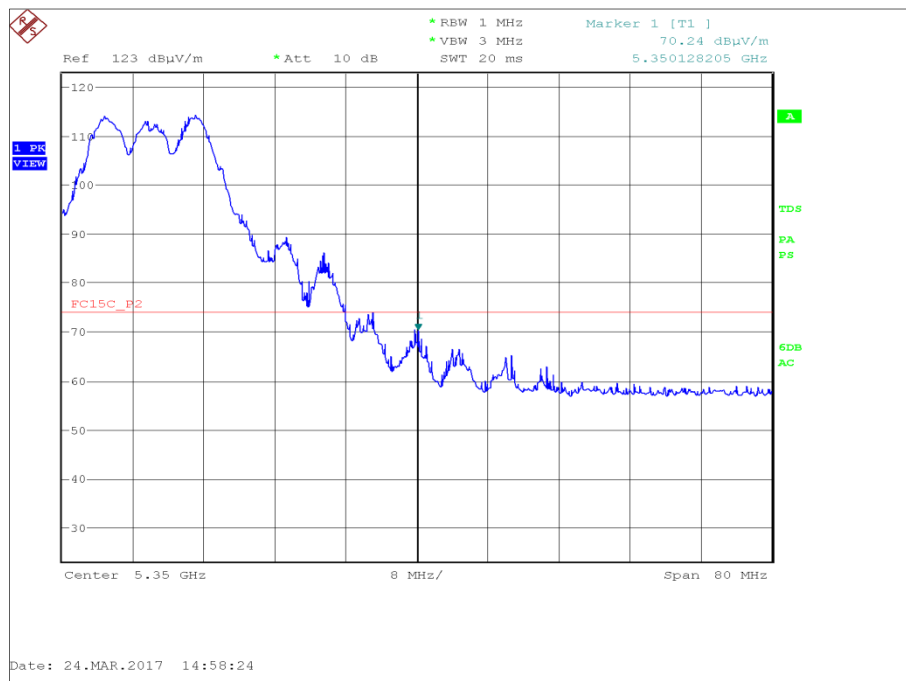
**Table 168 - UNII 2a - Restricted Band Edge Results**



**Figure 146 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



**Figure 147 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average**



**Figure 148 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak**



Product Service

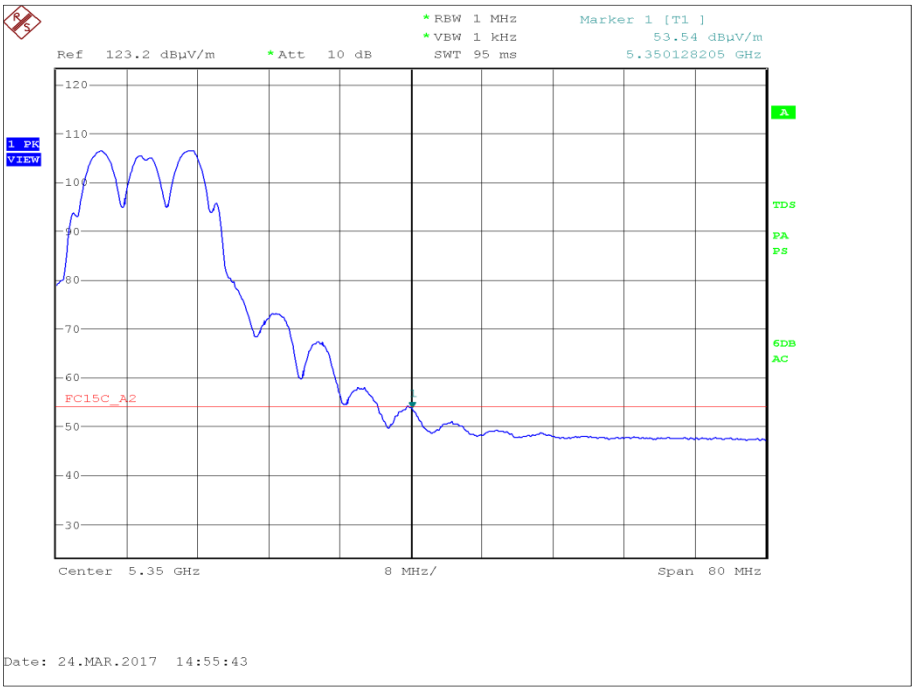


Figure 149 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|---------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                      | 67.38               | 53.13                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                      | 70.24               | 53.54                  |

**Table 169 - UNII 2c- Restricted Band Edge Results**



**Figure 150 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

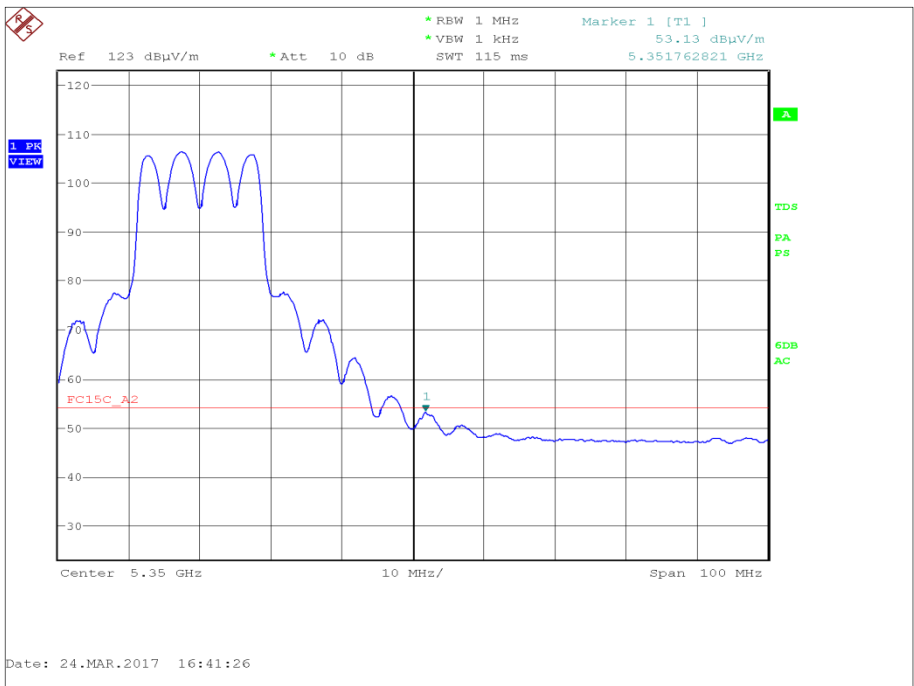


Figure 151 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

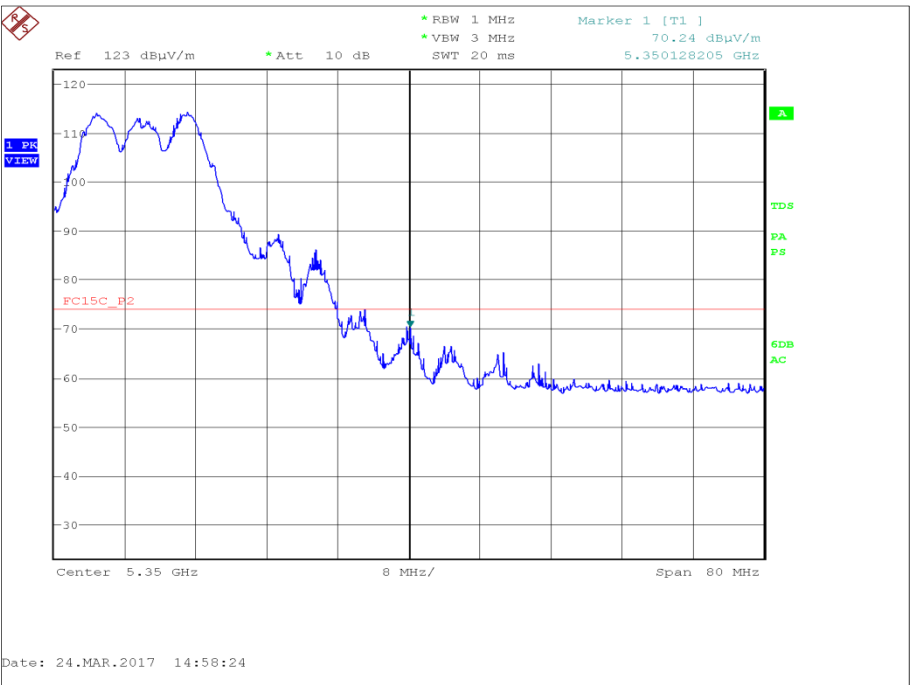


Figure 152 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

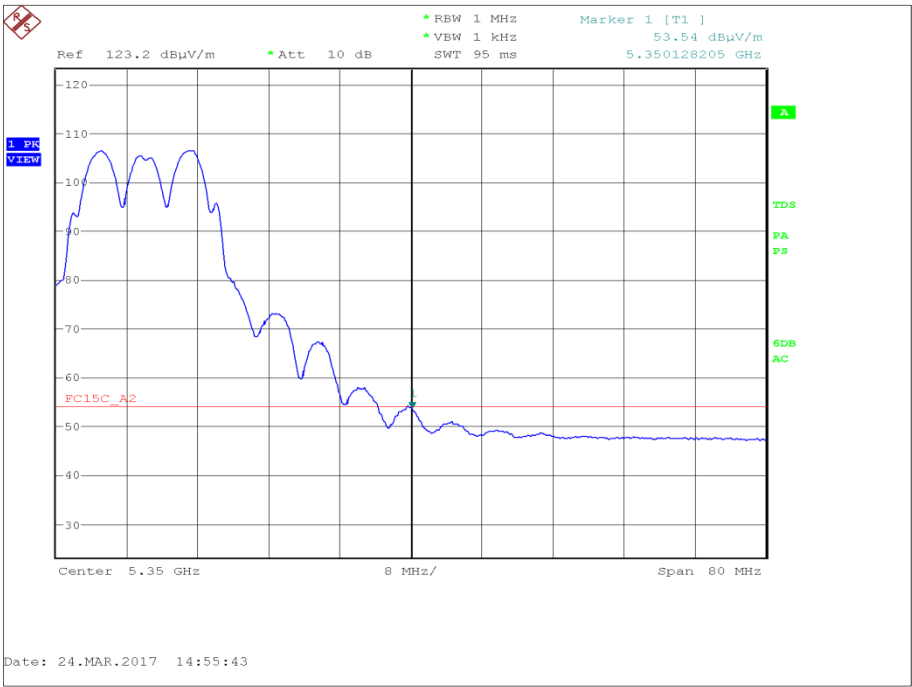


Figure 153 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

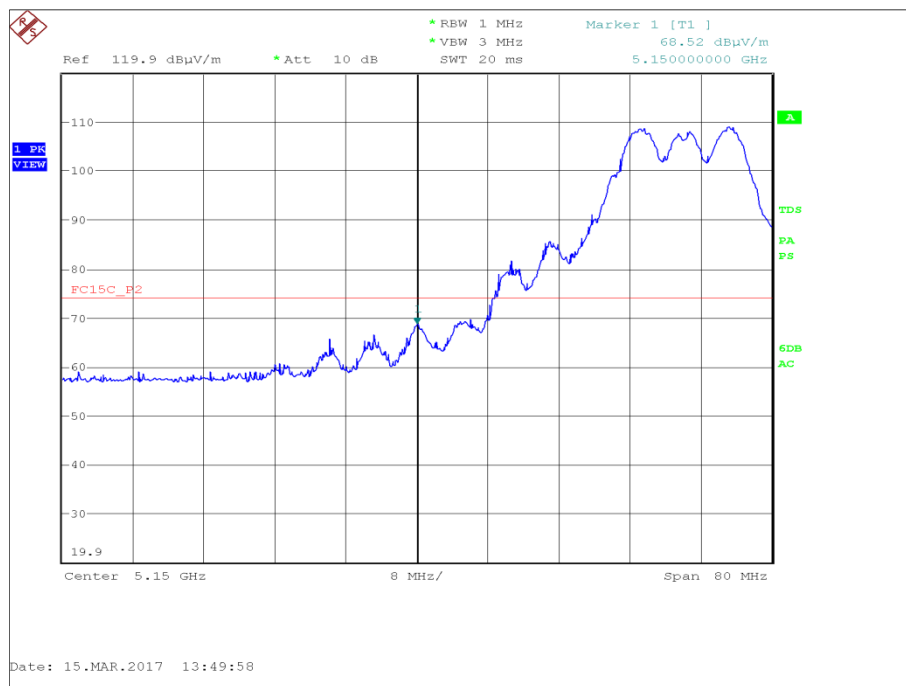
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 170

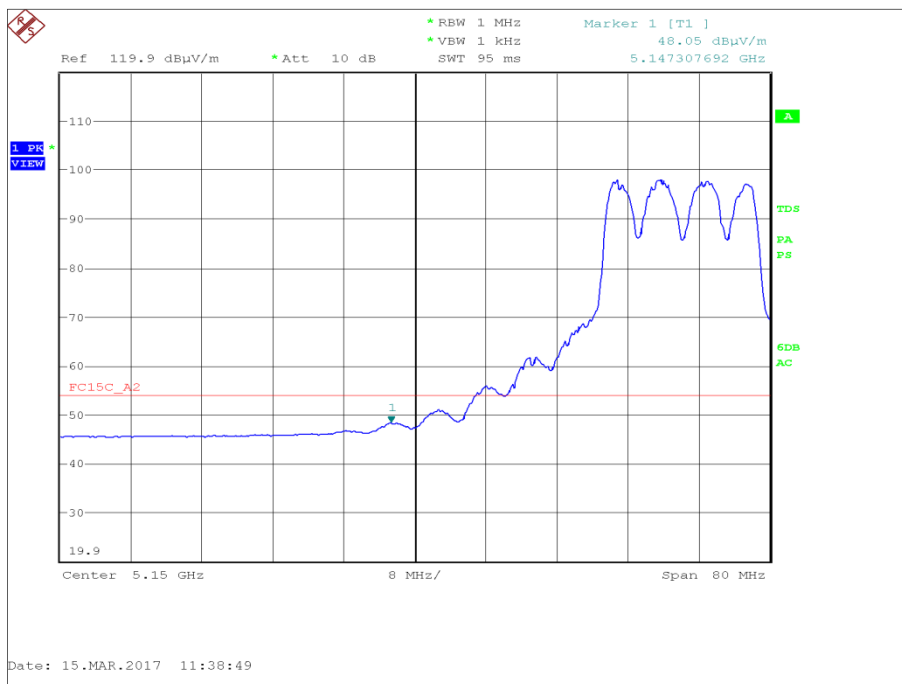
**ANT793-6DG - 802.11a**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5150                     | 68.52               | 48.05                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5150                     | 65.66               | 49.61                  |

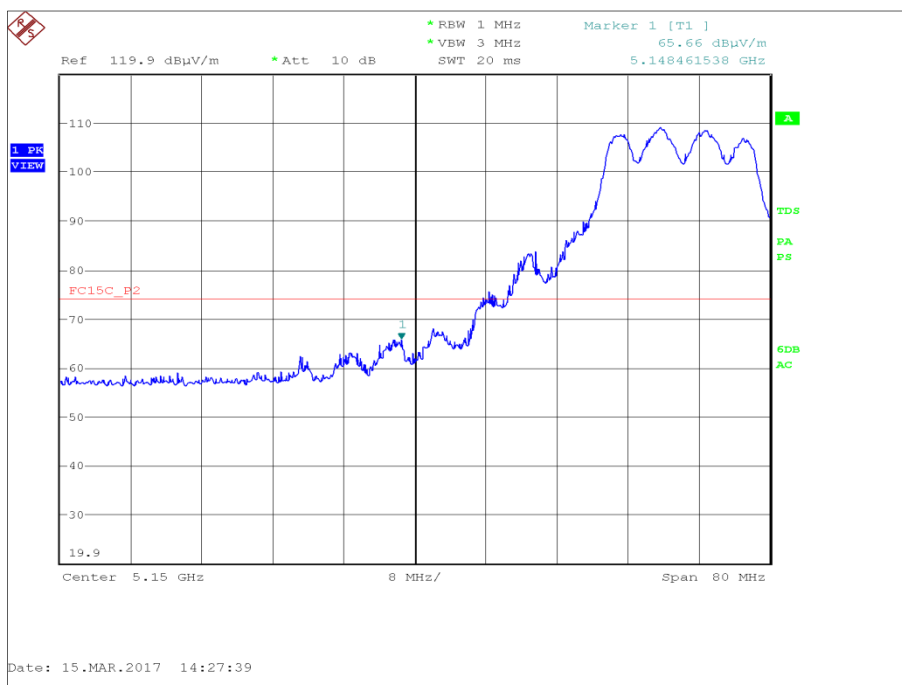
**Table 171 - UNII 1 - Restricted Band Edge Results**



**Figure 154 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**



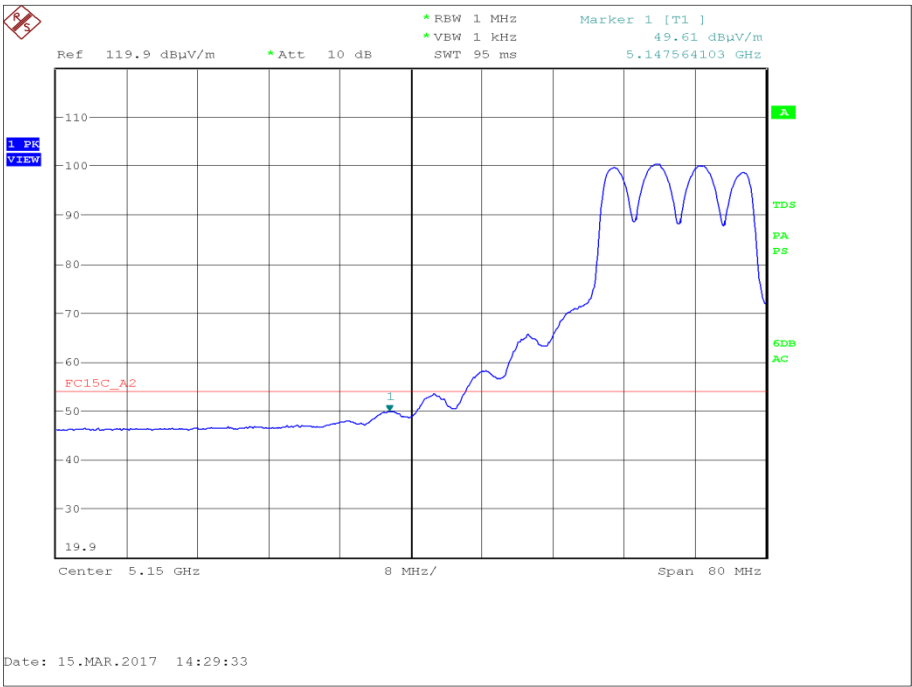
**Figure 155 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average**



**Figure 156 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak**



Product Service

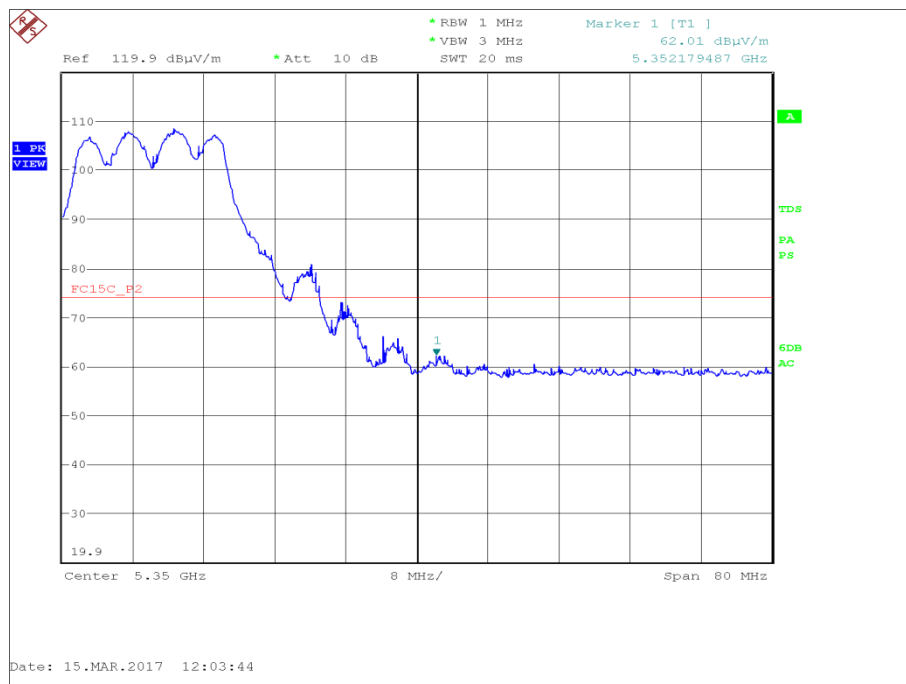


**Figure 157 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average**



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 62.01               | 47.67                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 63.73               | 49.07                  |

**Table 172 - UNII 2a - Restricted Band Edge Results**



**Figure 158 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

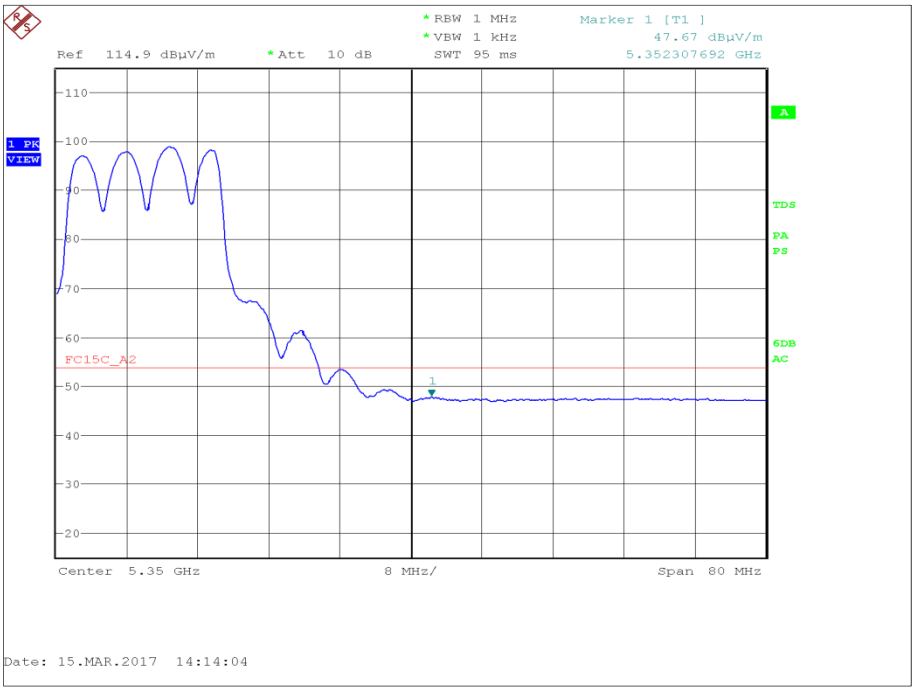


Figure 159 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

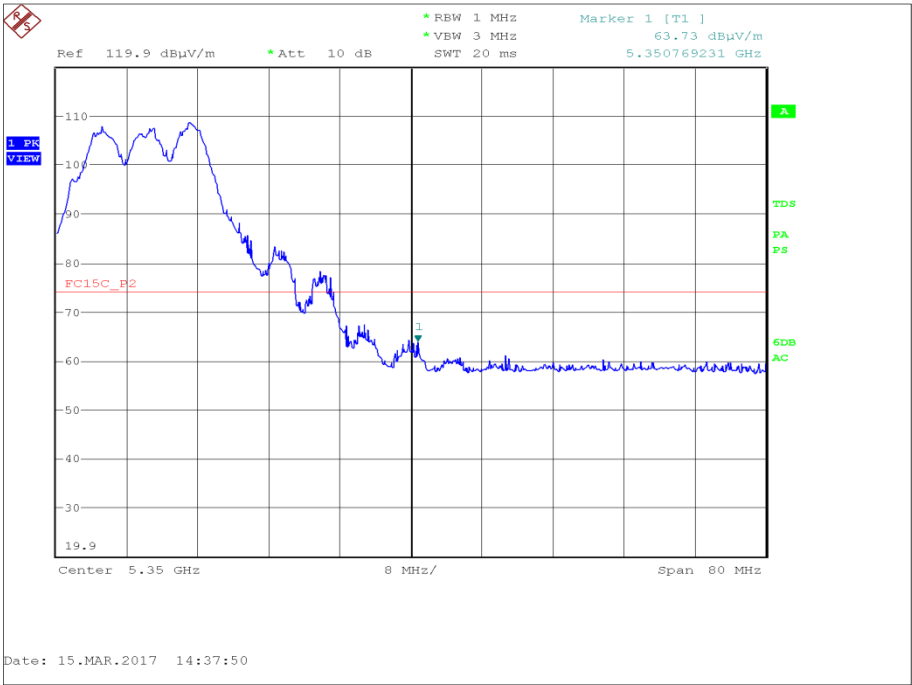


Figure 160 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

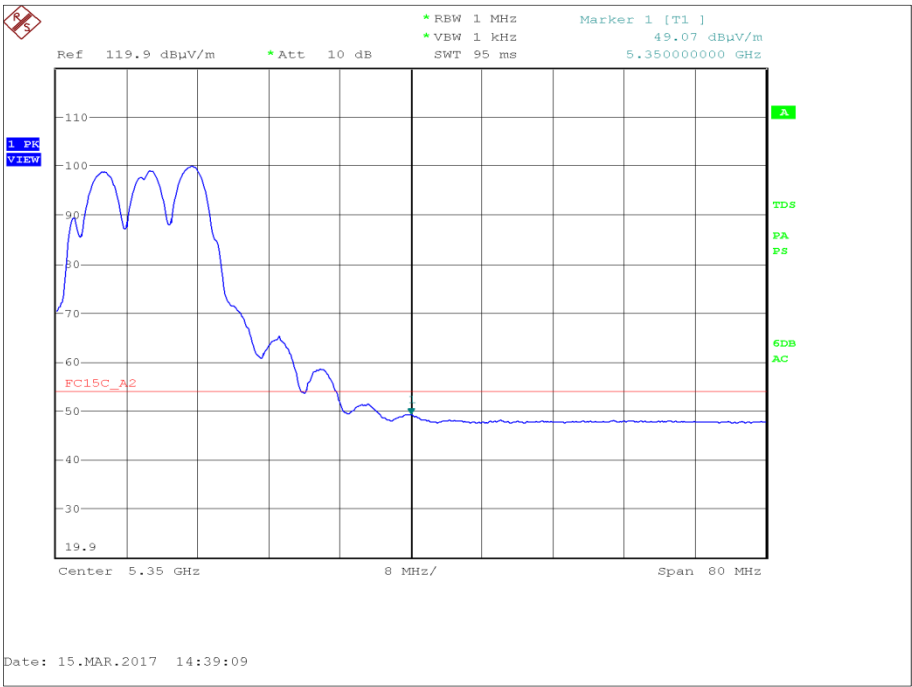


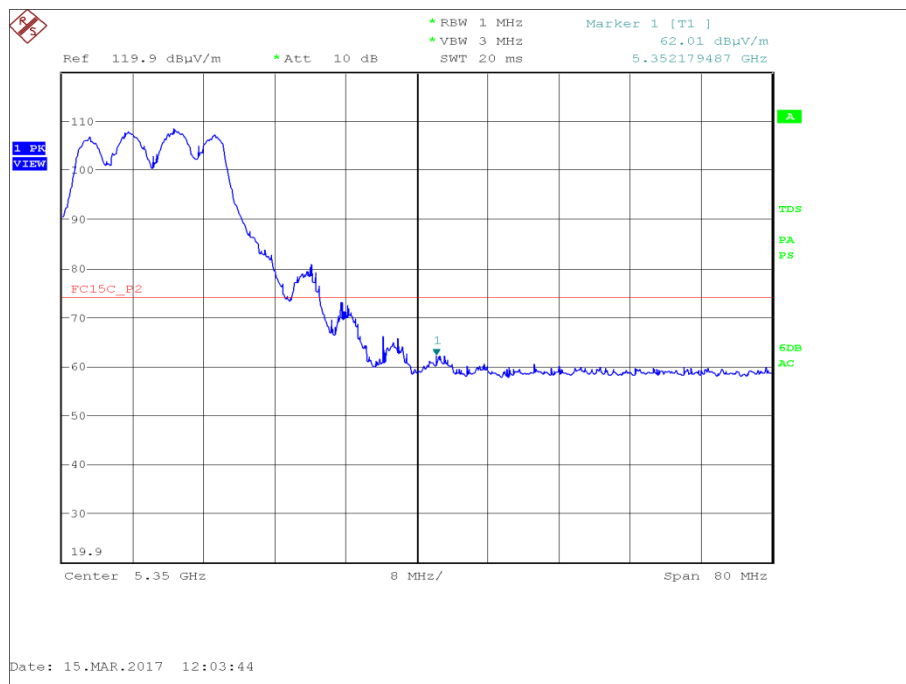
Figure 161 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



Product Service

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 62.01               | 47.67                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 63.73               | 49.07                  |

**Table 173 - UNII 2c- Restricted Band Edge Results**



**Figure 162 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

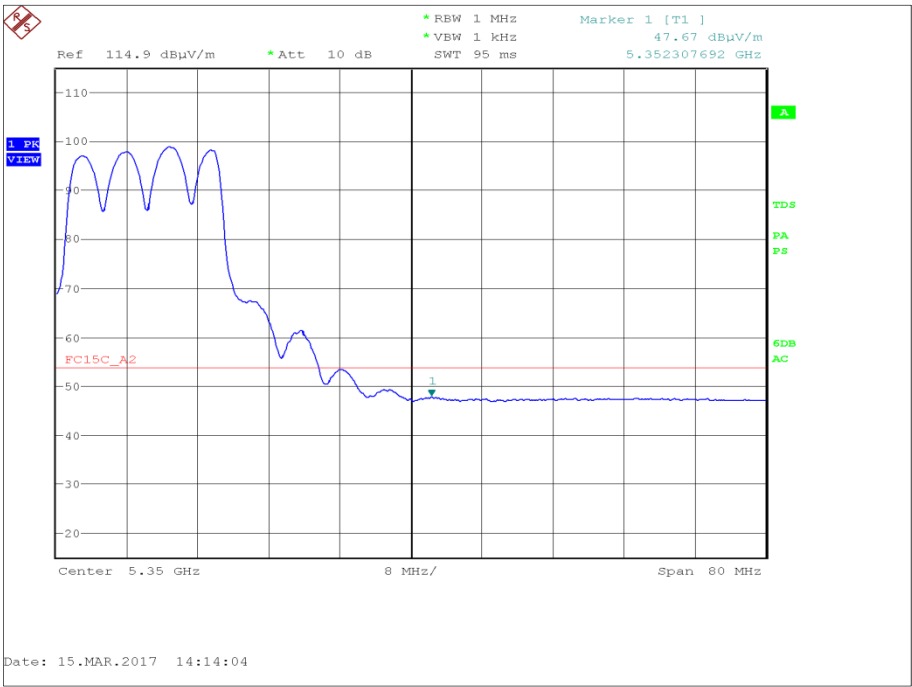


Figure 163 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

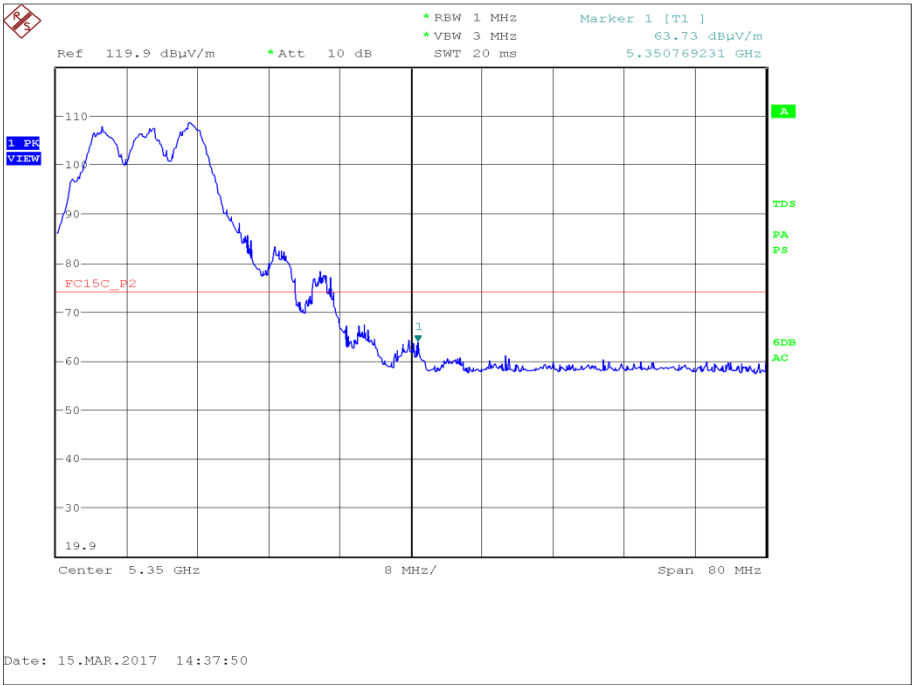


Figure 164 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

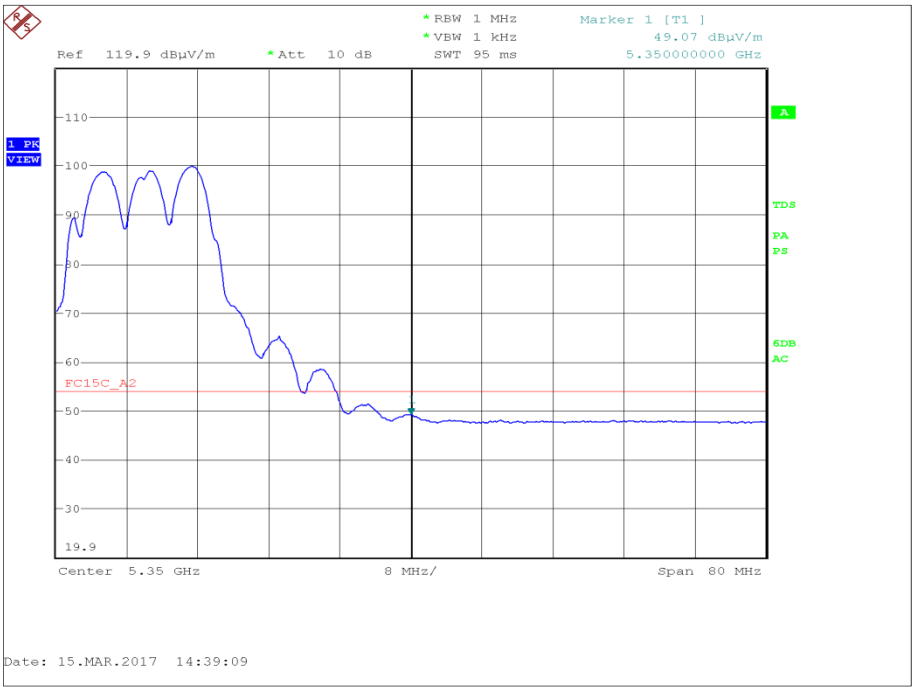


Figure 165 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

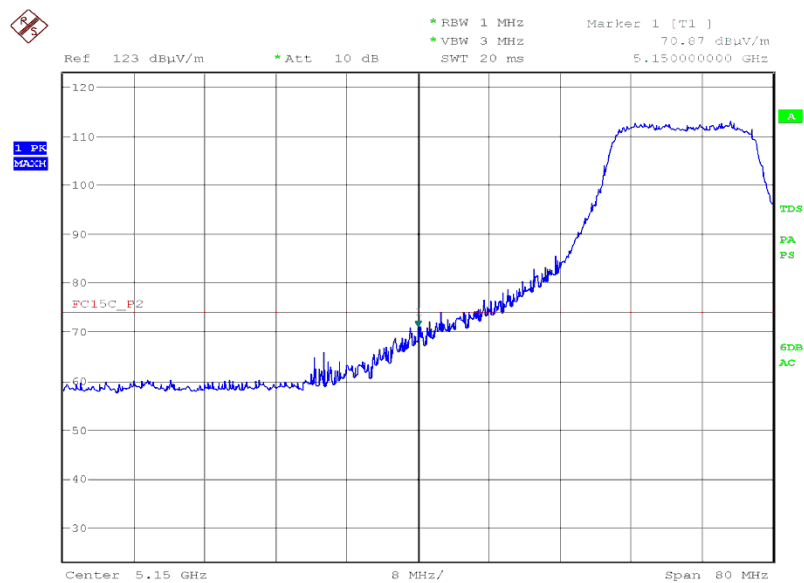
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 174

ANT793-8DK + 10m Cable - 802.11a

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5150                     | 70.87               | 52.33                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5150                     | 70.91               | 52.77                  |

**Table 175 - UNII 1 - Restricted Band Edge Results**

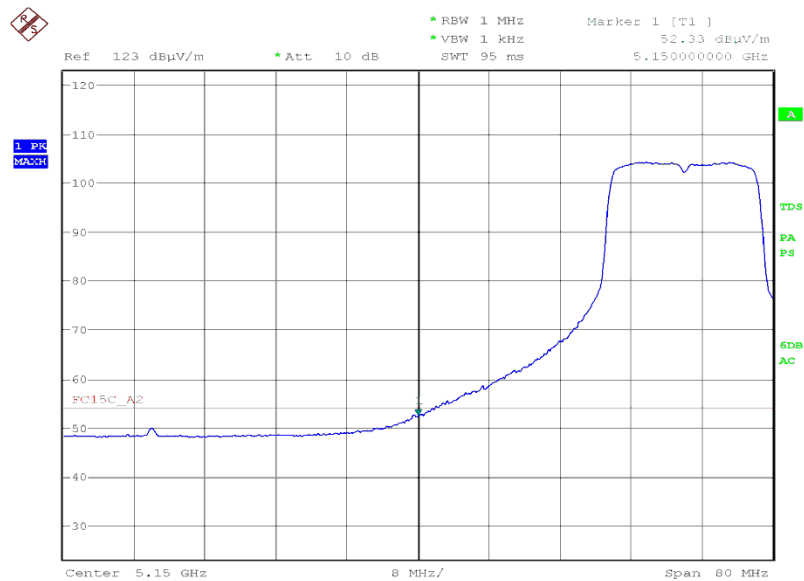


Date: 14.JUN.2017 20:04:48

**Figure 166 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**

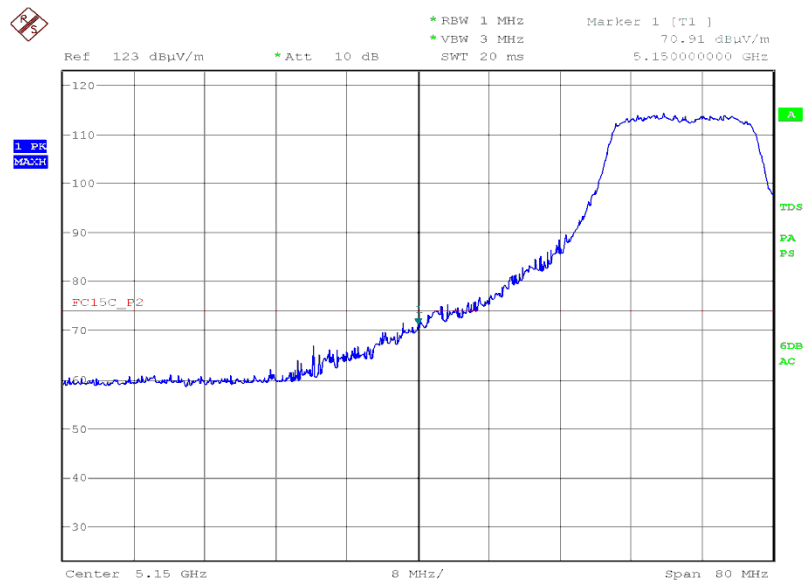


Product Service



Date: 14.JUN.2017 20:04:27

Figure 167 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

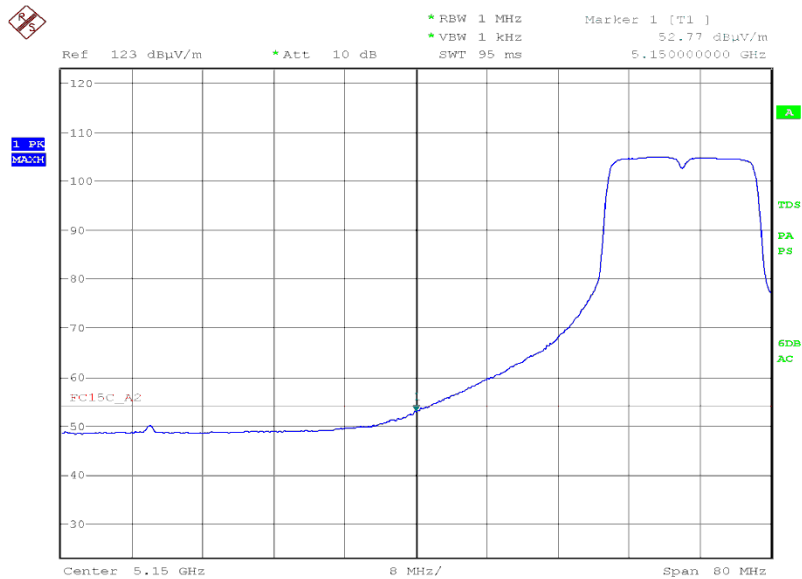


Date: 14.JUN.2017 18:41:48

Figure 168 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service



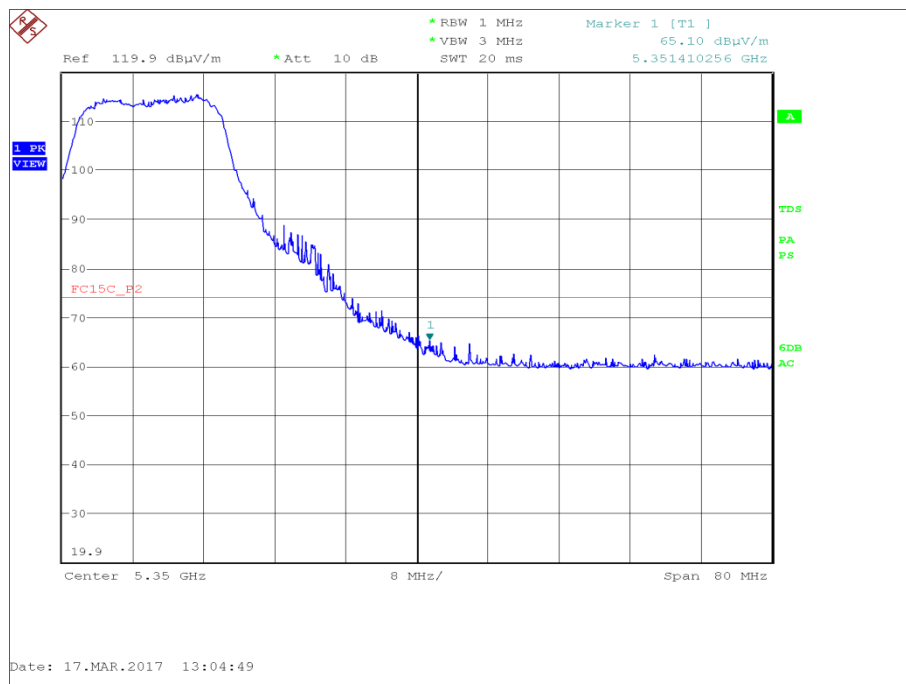
Date: 14.JUN.2017 18:42:51

**Figure 169 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average**



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 65.10               | 49.77                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 59.91               | 47.42                  |

**Table 176 - UNII 2a - Restricted Band Edge Results**



**Figure 170 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

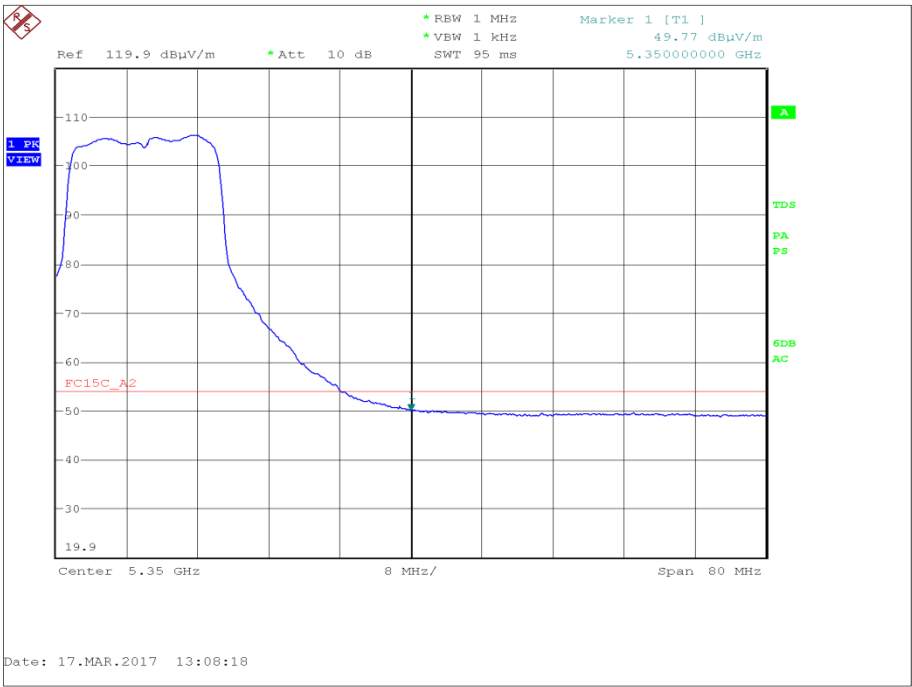


Figure 171 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

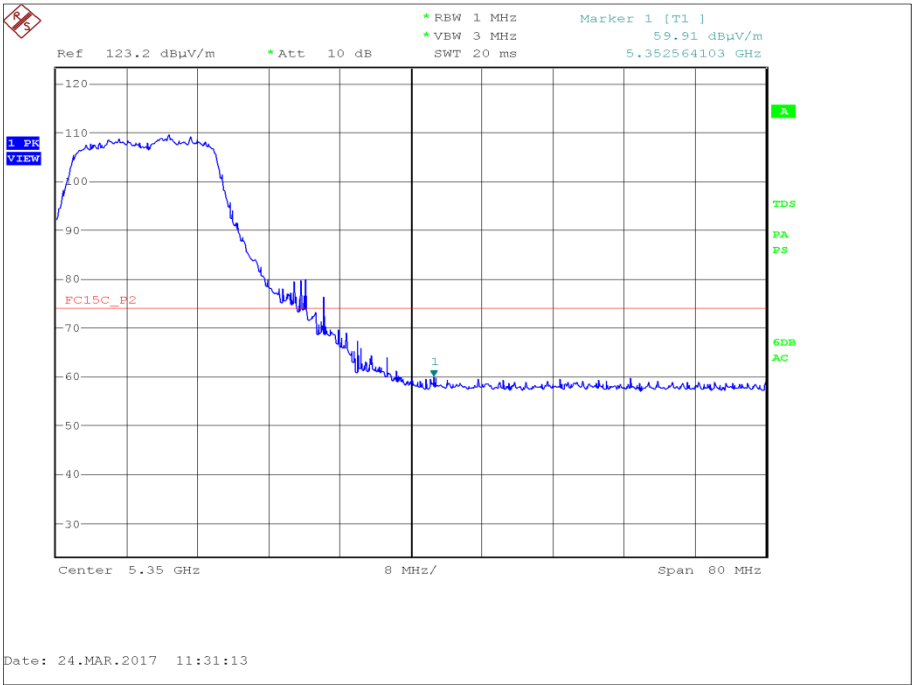


Figure 172 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

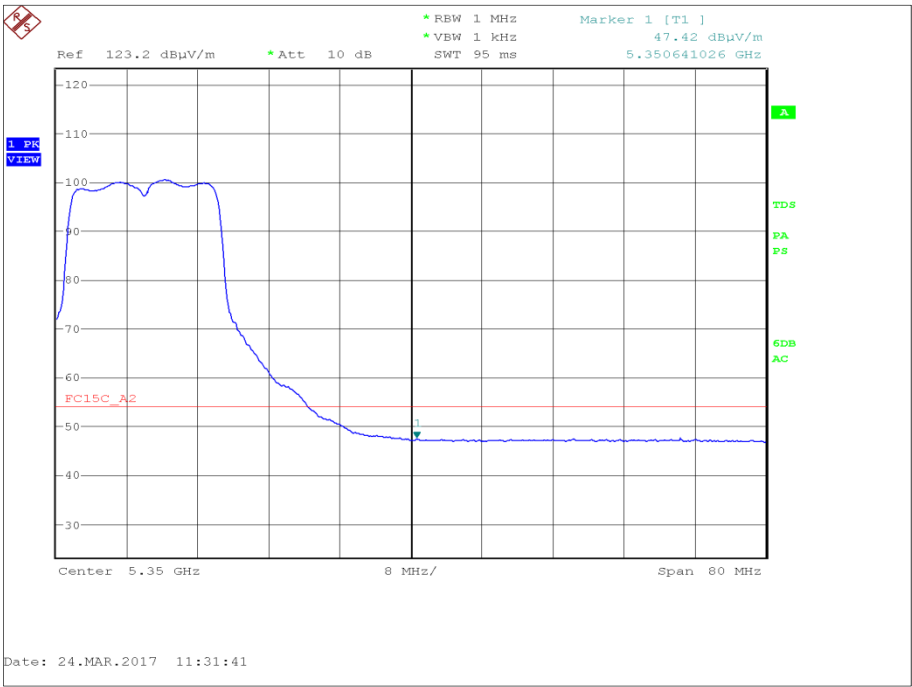
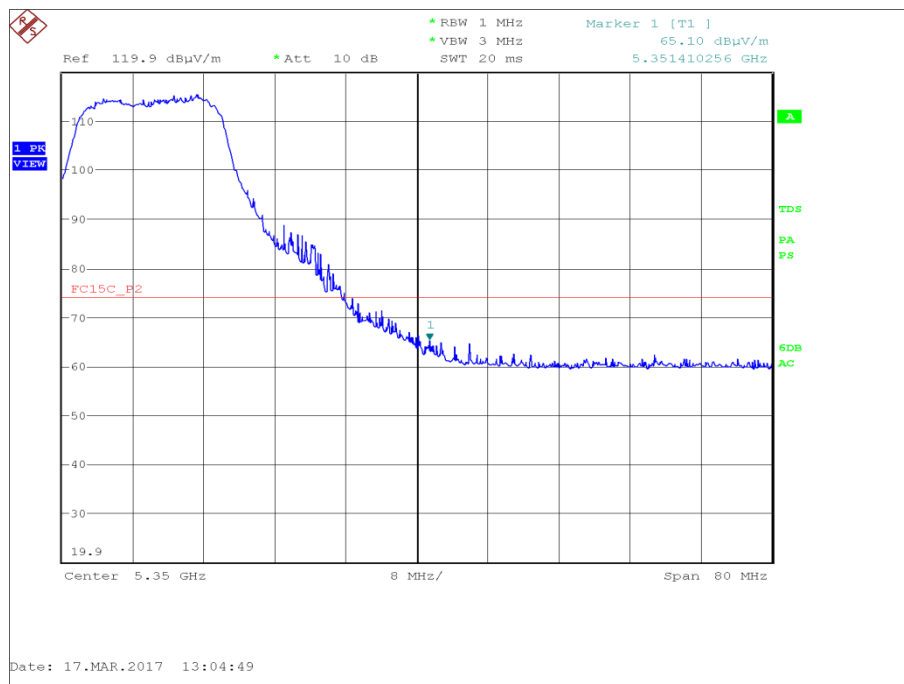


Figure 173 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

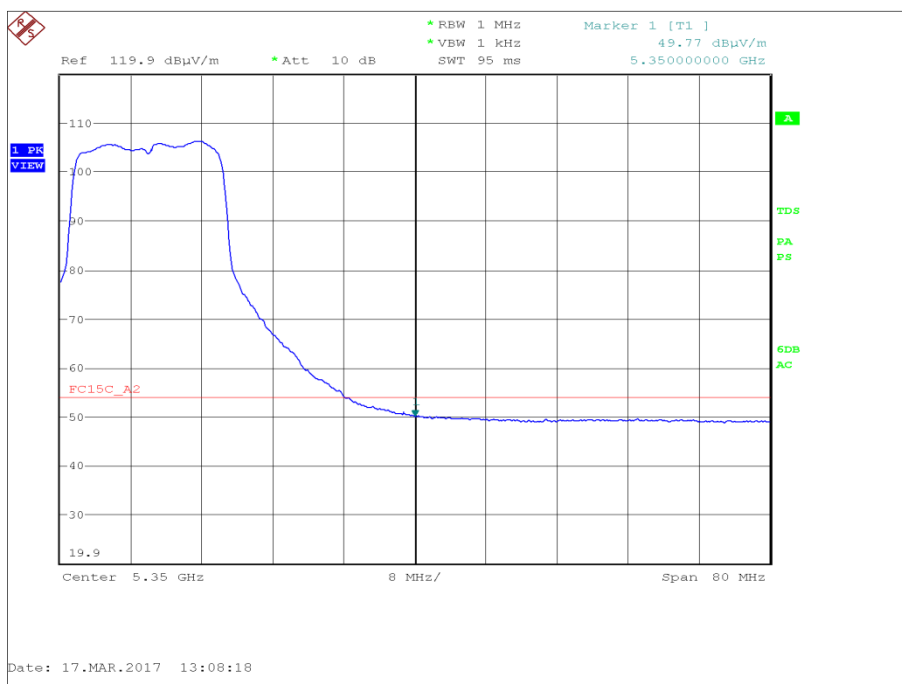


| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 65.10               | 49.77                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 59.91               | 47.42                  |

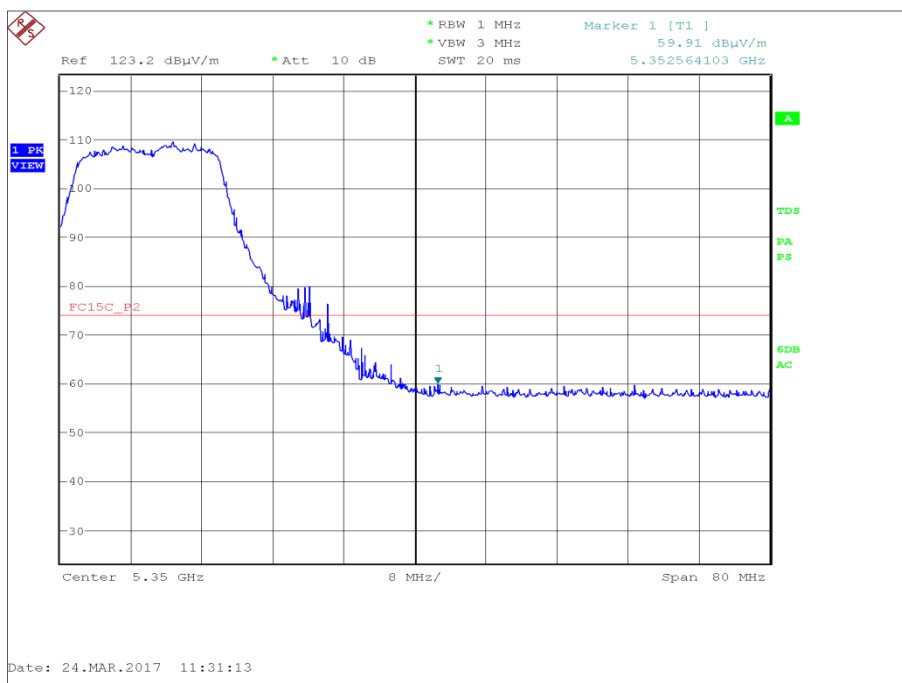
**Table 177 - UNII 2c- Restricted Band Edge Results**



**Figure 174 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



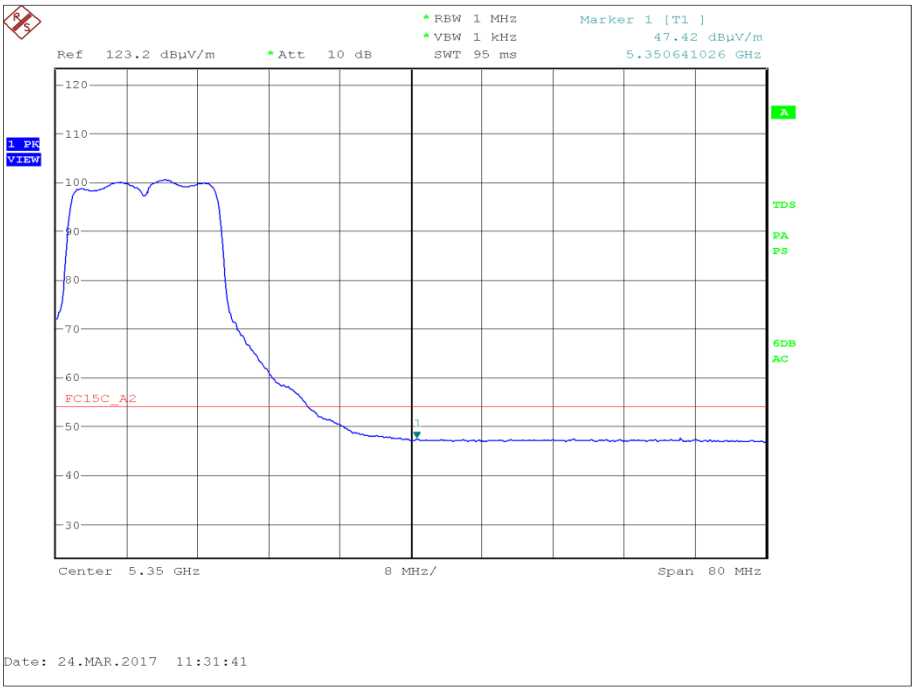
**Figure 175 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average**



**Figure 176 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak**



Product Service



**Figure 177 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average**

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

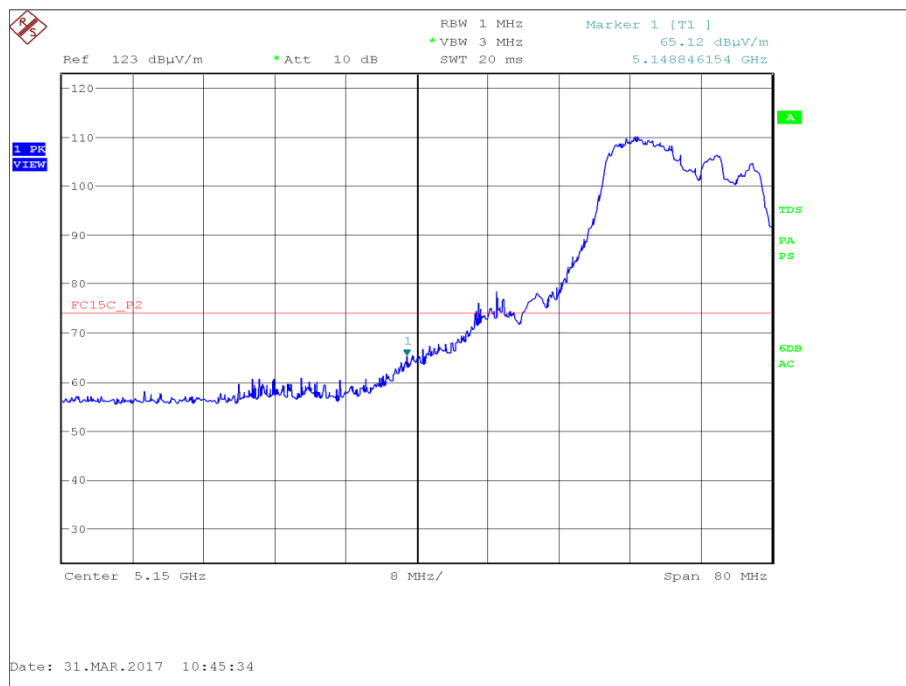
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

**Table 178**

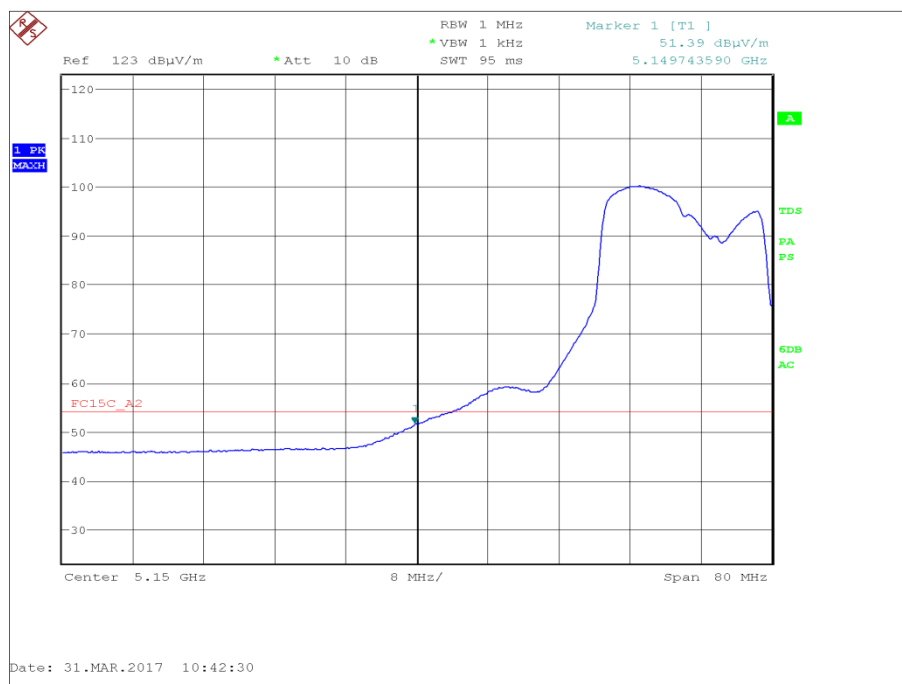
**ANT795-6MT - 802.11n 20 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5150                     | 65.12               | 51.39                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5150                     | 67.36               | 51.12                  |

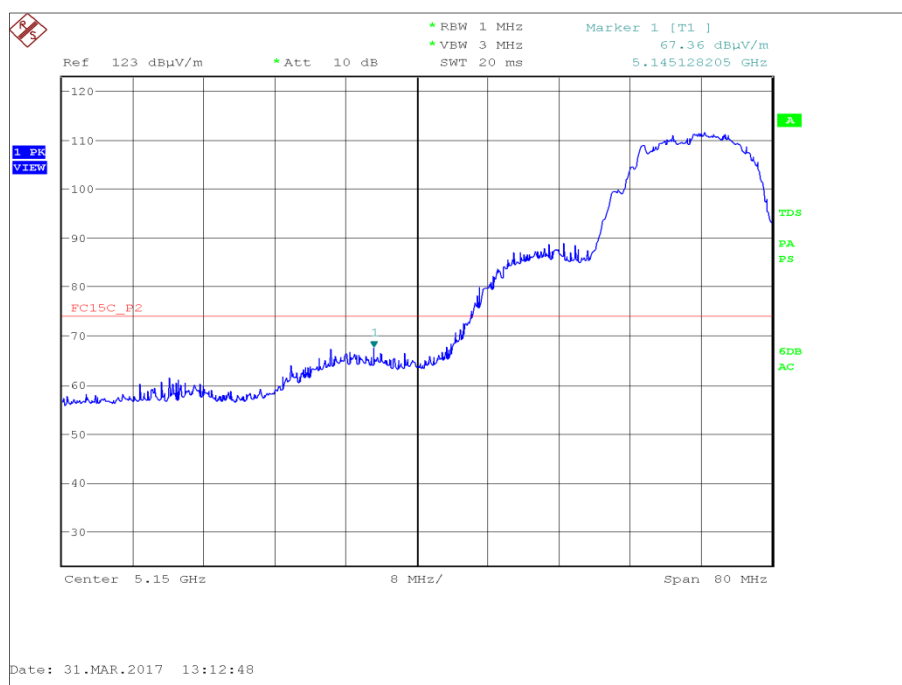
**Table 179 - UNII 1 - Restricted Band Edge Results**



**Figure 178 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**



**Figure 179 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average**



**Figure 180 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak**



Product Service

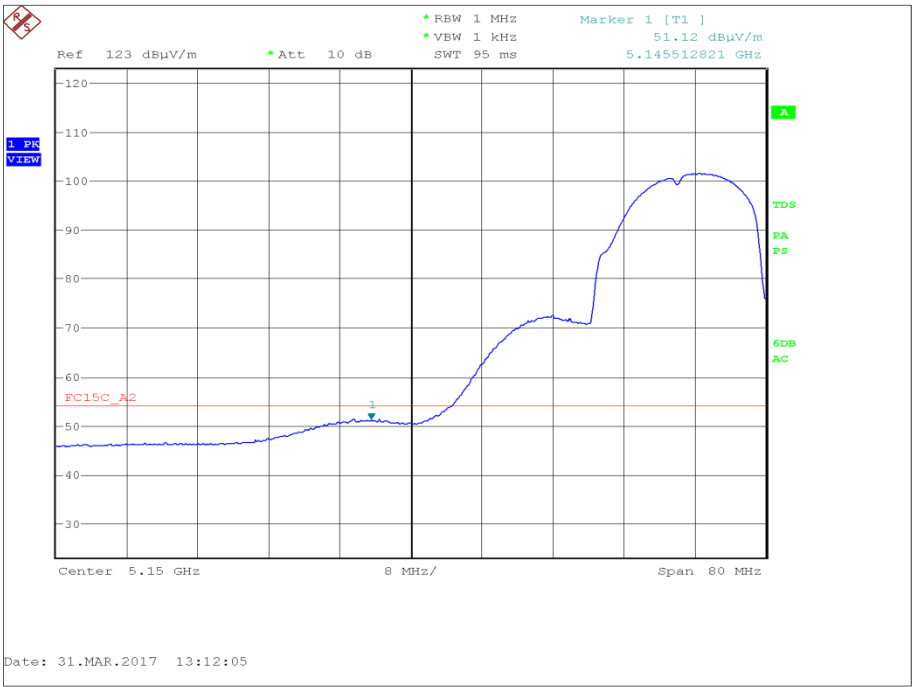


Figure 181 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average



Product Service

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5350                     | 69.90               | 52.58                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5350                     | 72.03               | 53.14                  |

Table 180 - UNII 2a - Restricted Band Edge Results

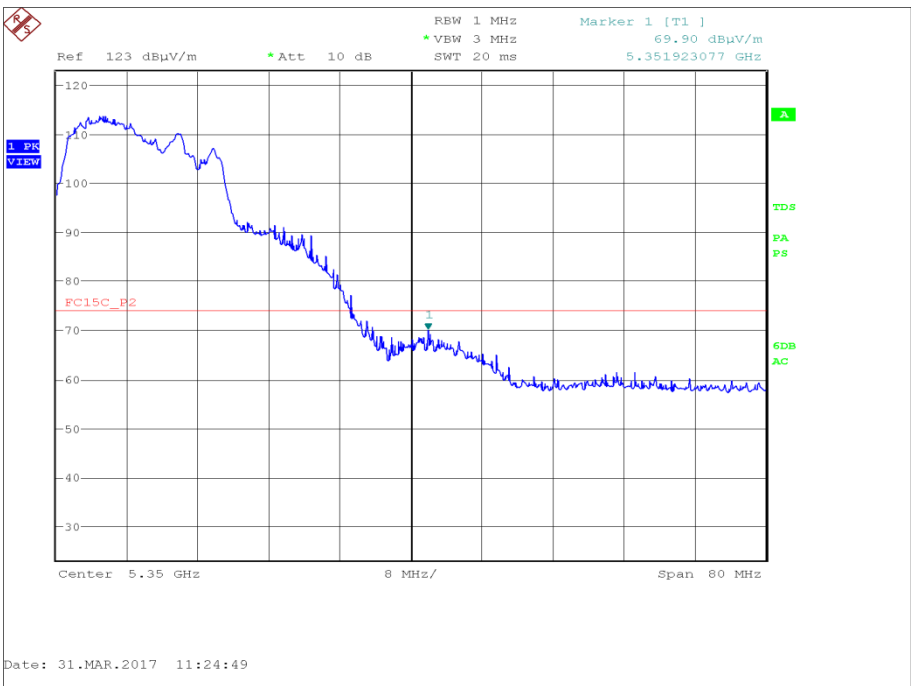
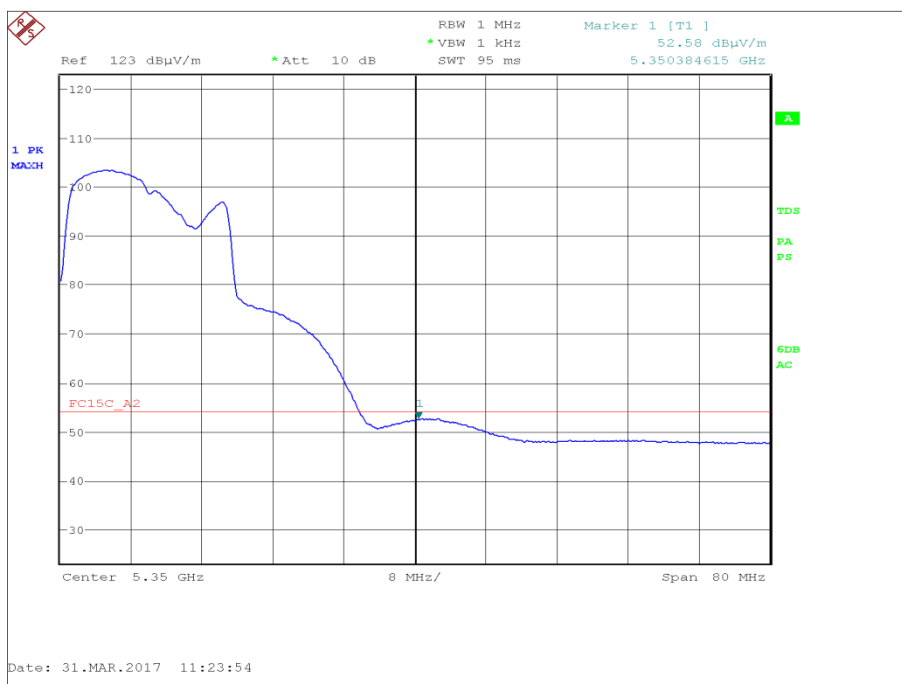
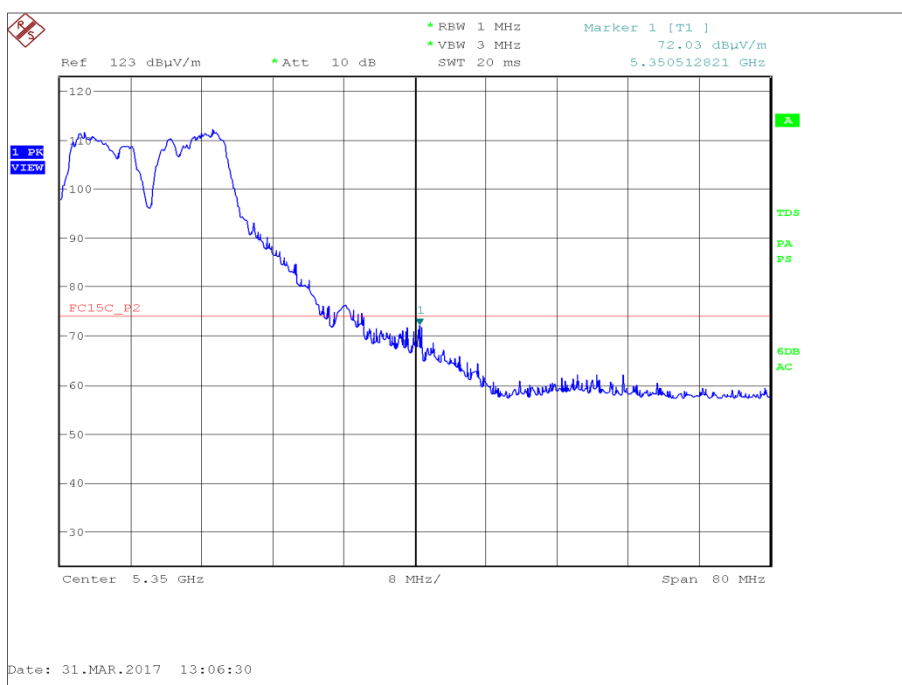


Figure 182 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak



**Figure 183 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average**



**Figure 184 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak**



Product Service

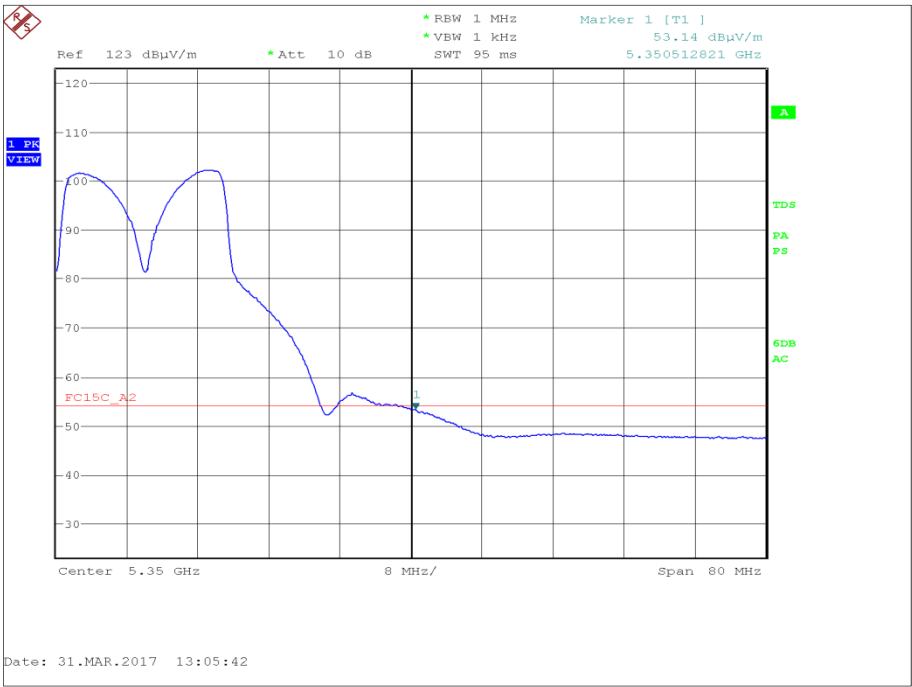
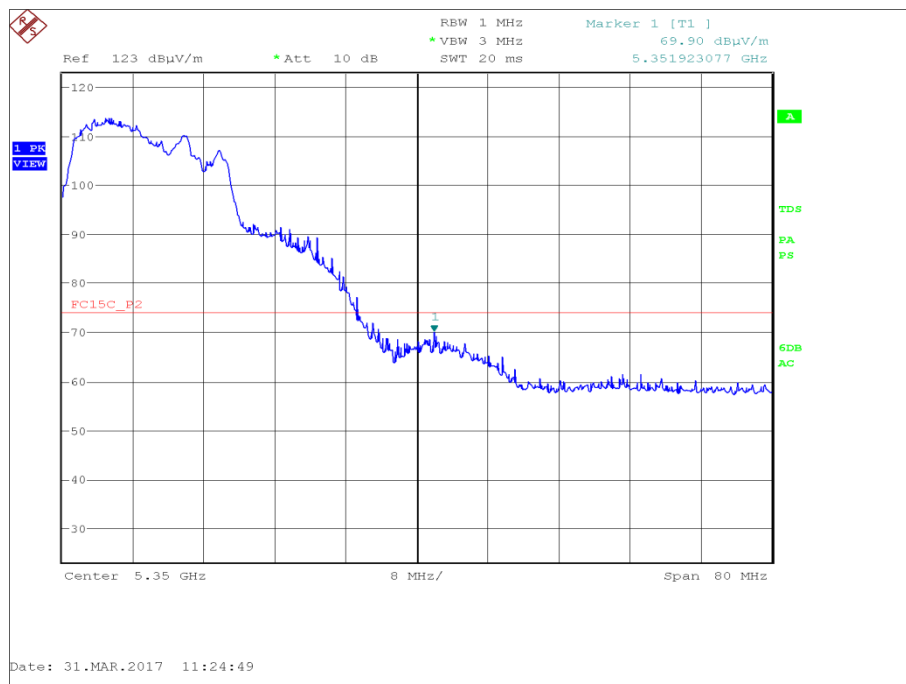


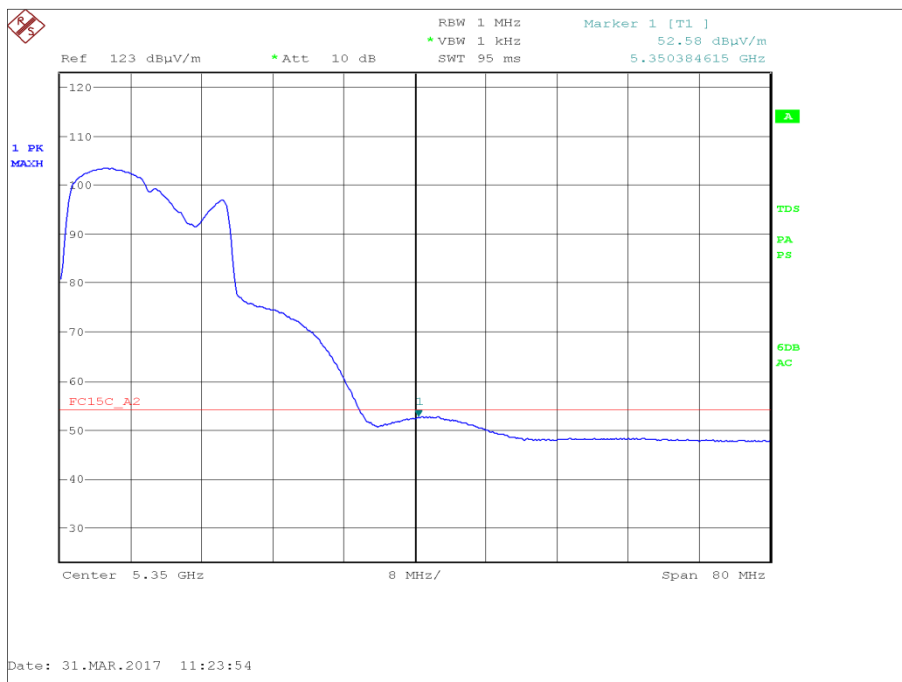
Figure 185 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5350                     | 69.90               | 52.58                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5350                     | 72.03               | 53.14                  |

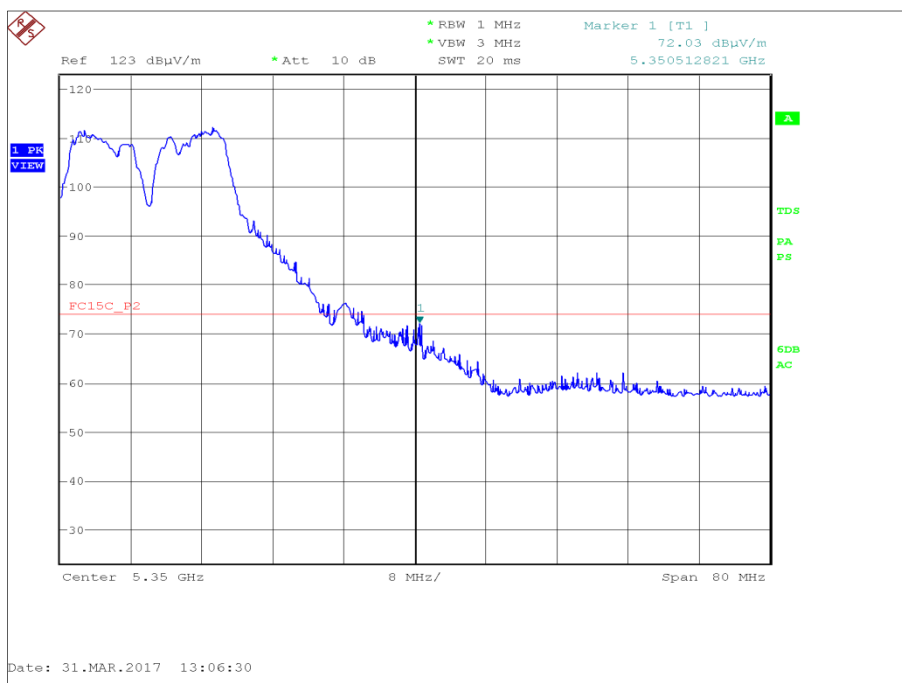
**Table 181 - UNII 2c- Restricted Band Edge Results**



**Figure 186 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



**Figure 187 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average**



**Figure 188 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak**



Product Service

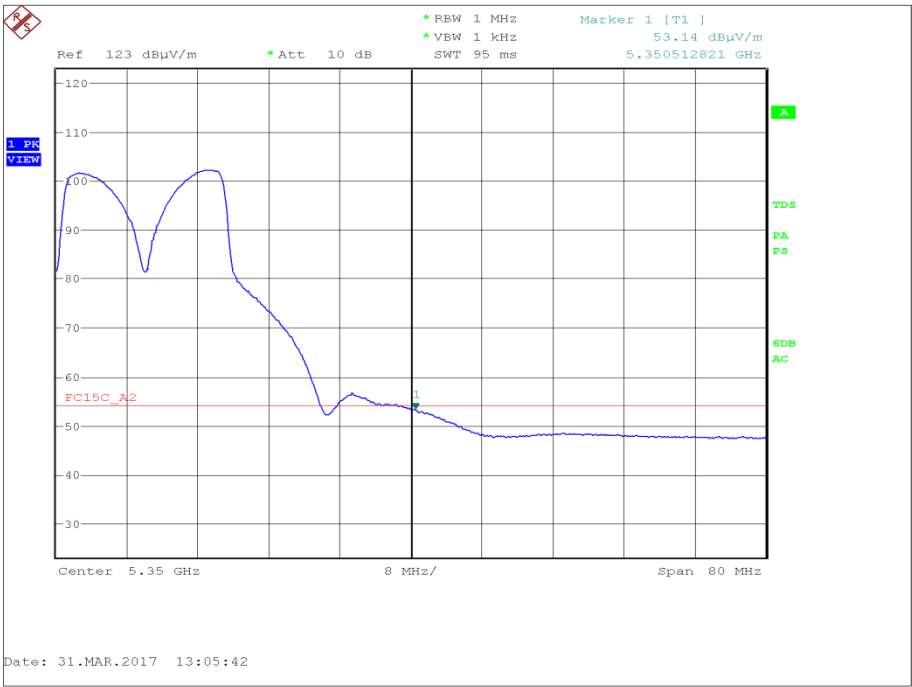


Figure 189 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

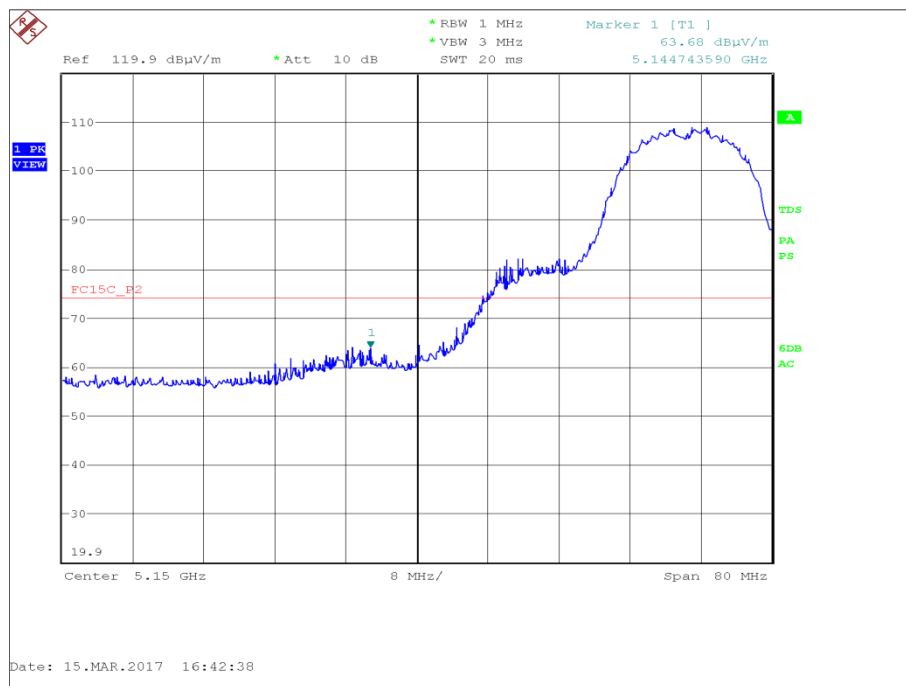
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 182

**ANT793-6DG - 802.11n 20 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5150                     | 63.68               | 48.17                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5150                     | 68.59               | 51.24                  |

**Table 183 - UNII 1 - Restricted Band Edge Results**



**Figure 190 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**



Product Service

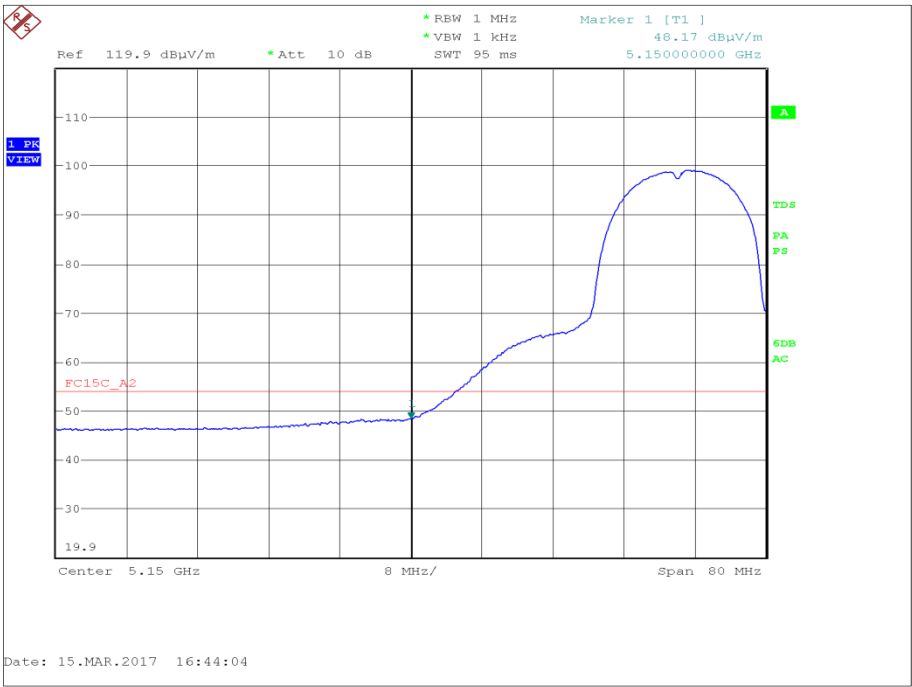


Figure 191 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

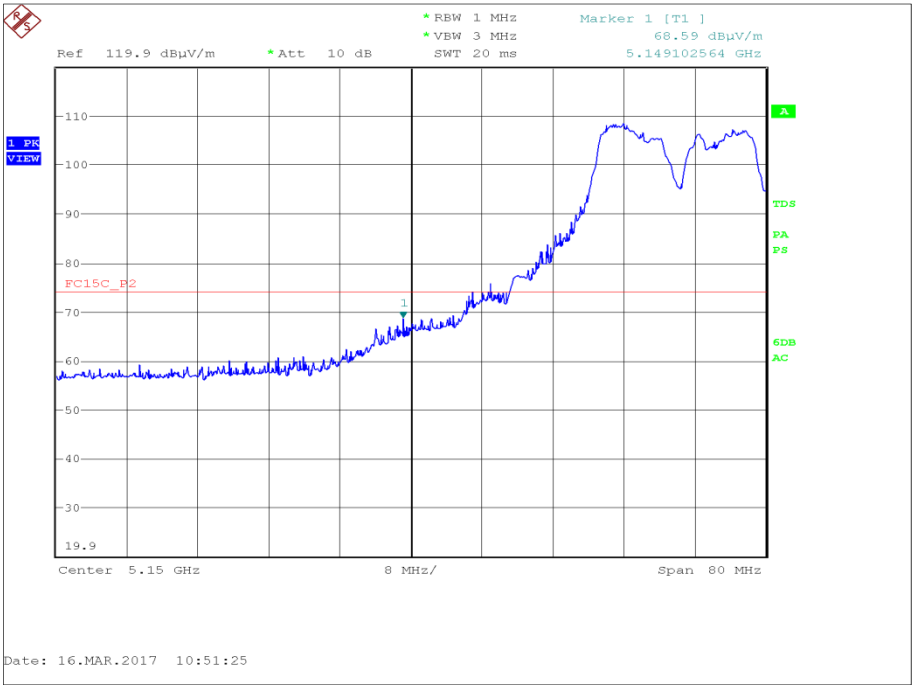


Figure 192 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service

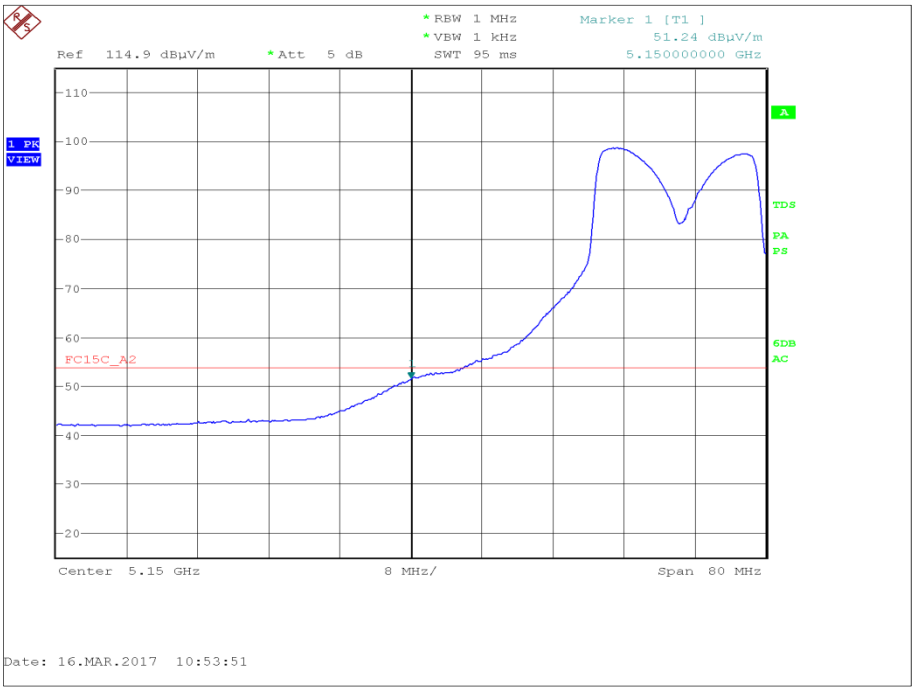


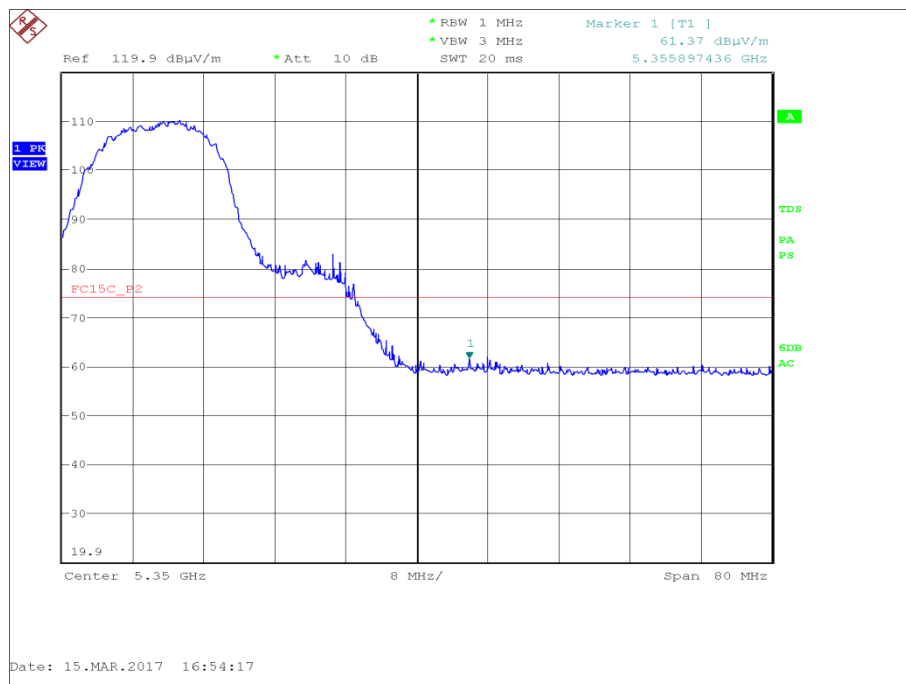
Figure 193 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average



Product Service

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 61.37               | 47.71                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 62.37               | 47.71                  |

**Table 184 - UNII 2a - Restricted Band Edge Results**



**Figure 194 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

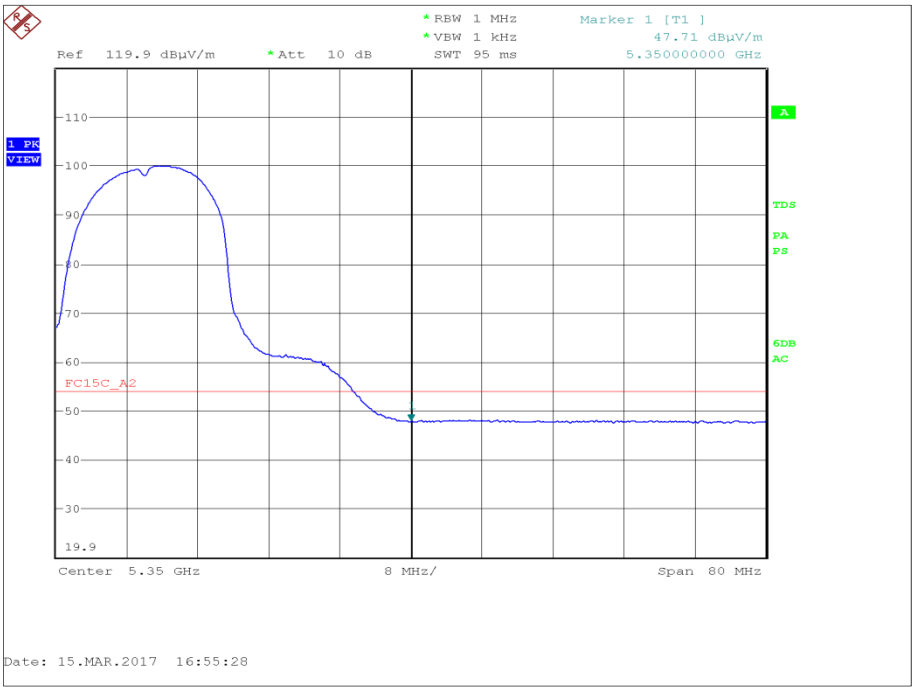


Figure 195 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

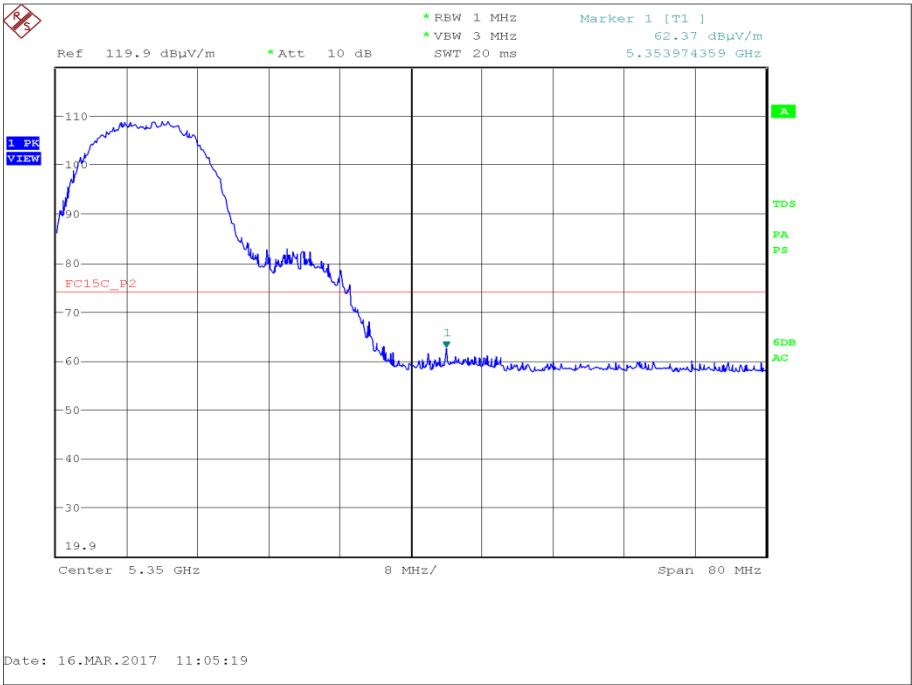


Figure 196 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

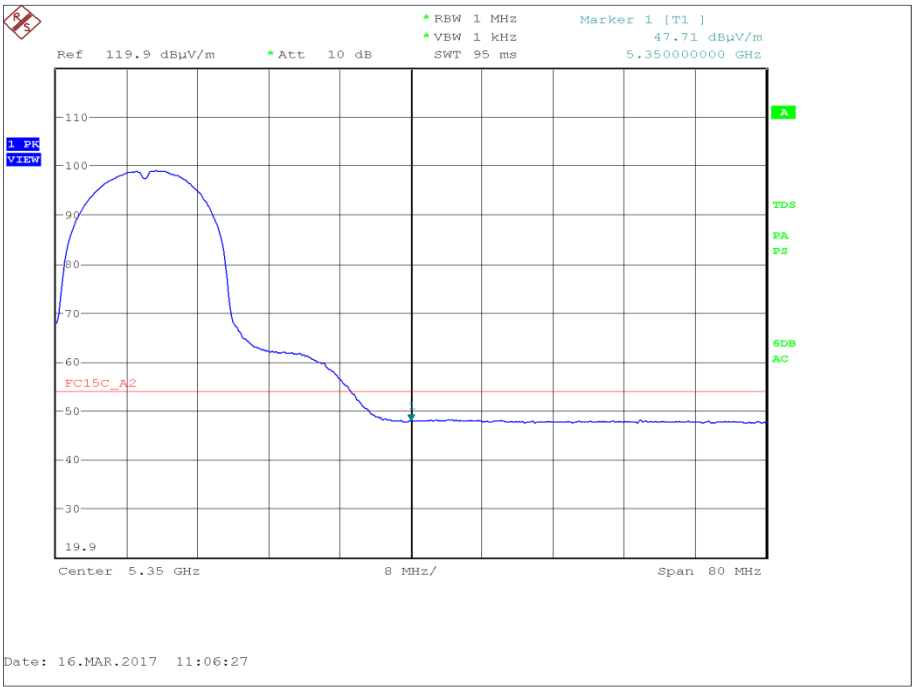
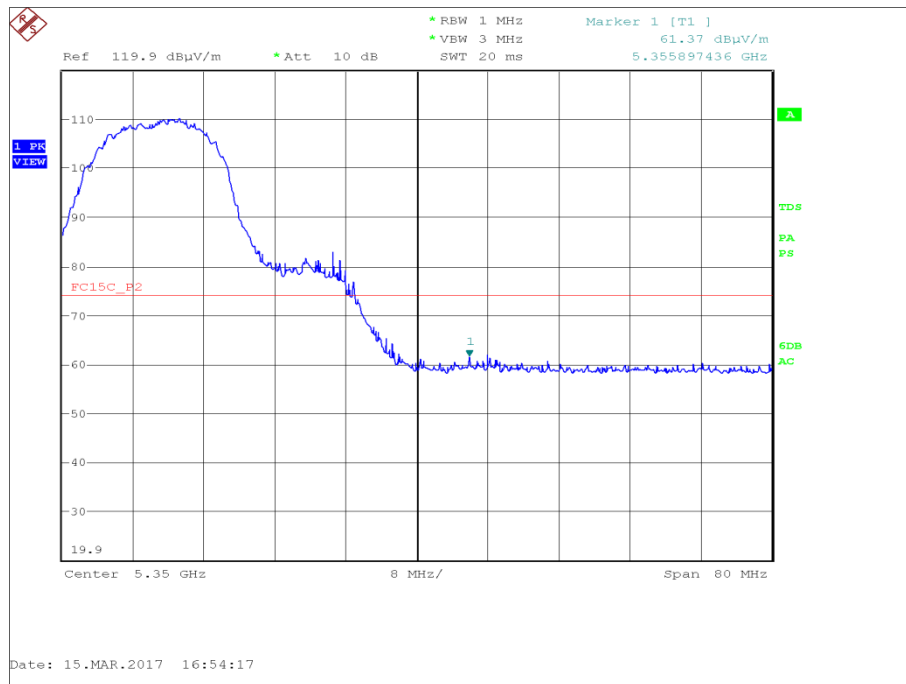


Figure 197 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | 6 Mbps        | 5180                        | 5350                     | 61.37               | 47.71                  |
| Widest Emission Bandwidth | 12 Mbps       | 5180                        | 5350                     | 62.37               | 47.71                  |

**Table 185 - UNII 2c- Restricted Band Edge Results**



**Figure 198 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

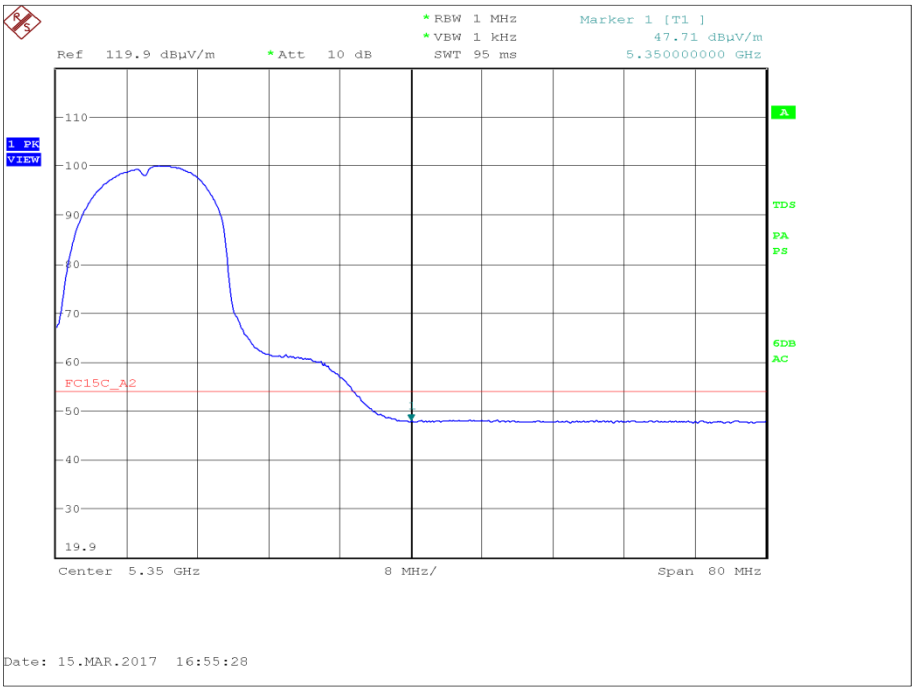


Figure 199 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

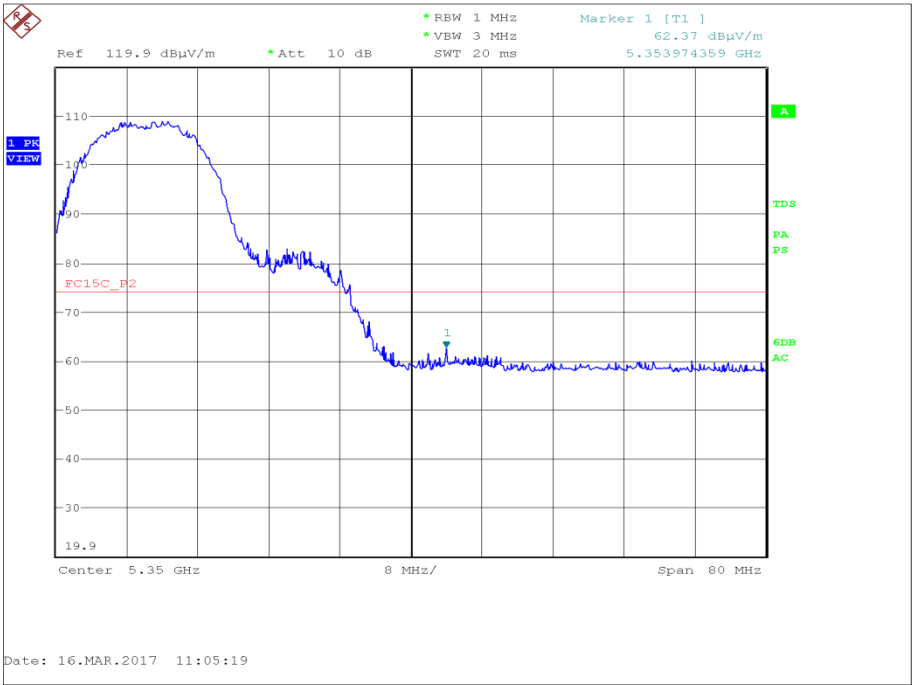


Figure 200 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

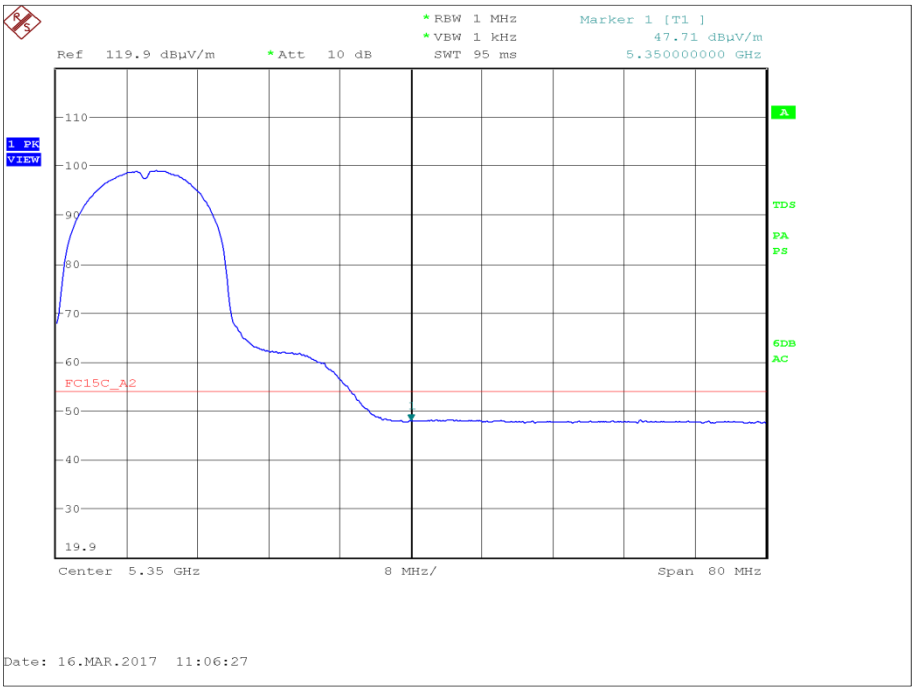


Figure 201 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

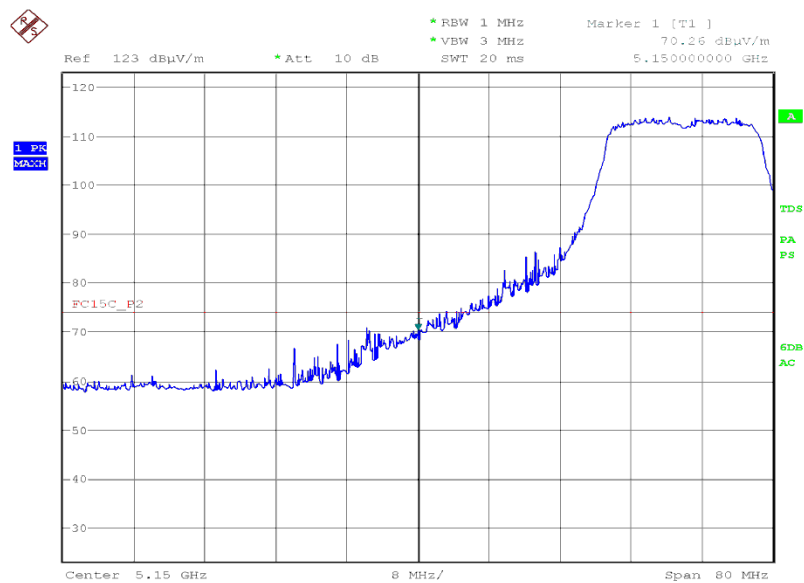
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 186

ANT793-8DK + 10m Cable - 802.11n 20 MHz Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5150                     | 70.26               | 53.15                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5150                     | 71.02               | 53.44                  |

**Table 187 - UNII 1 - Restricted Band Edge Results**

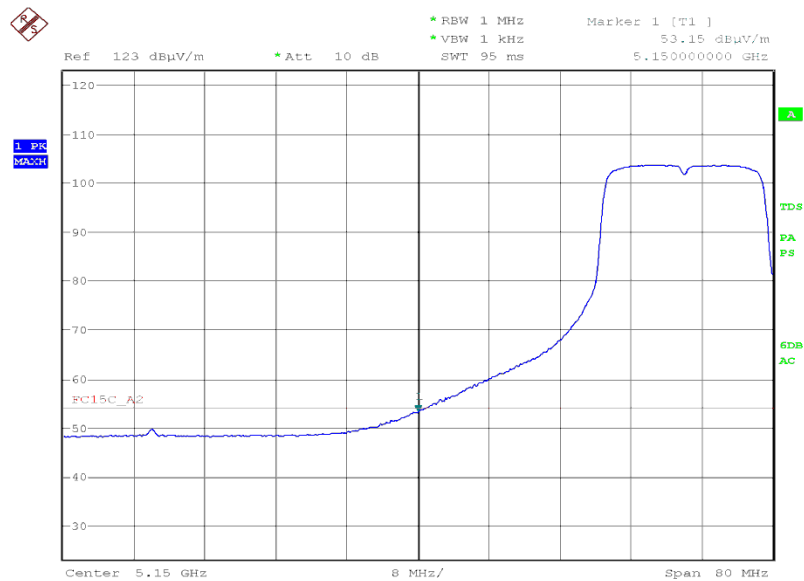


Date: 14.JUN.2017 18:54:12

**Figure 202 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**

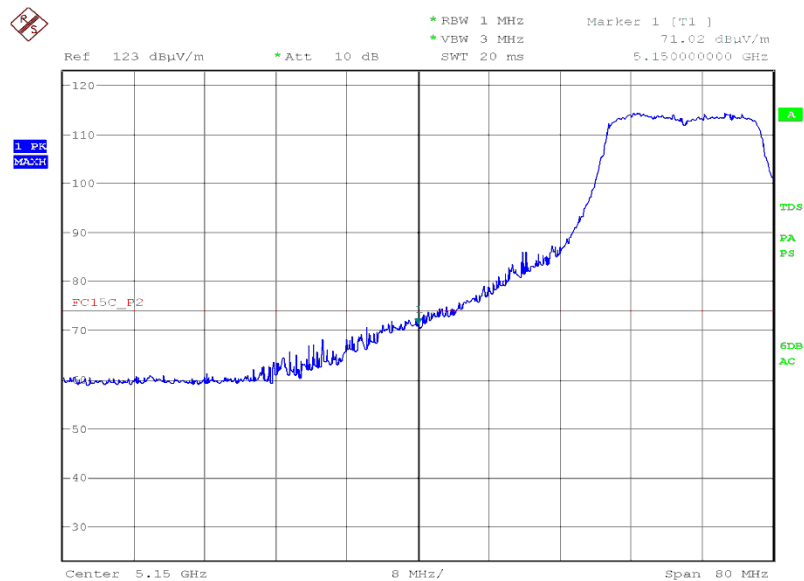


Product Service



Date: 14.JUN.2017 18:50:13

Figure 203 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

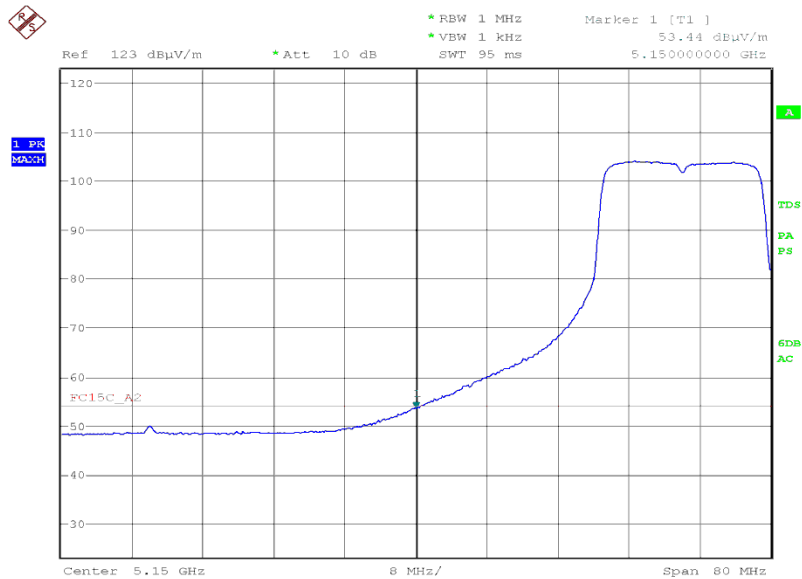


Date: 14.JUN.2017 19:05:16

Figure 204 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service



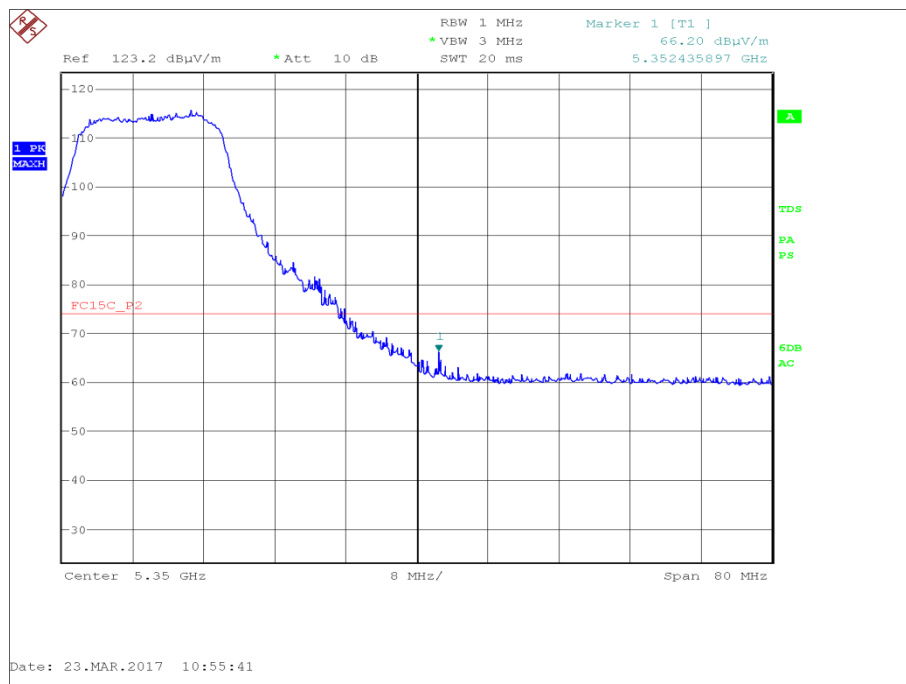
Date: 14.JUN.2017 19:03:45

Figure 205 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5350                     | 66.20               | 49.76                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5350                     | 64.50               | 53.65                  |

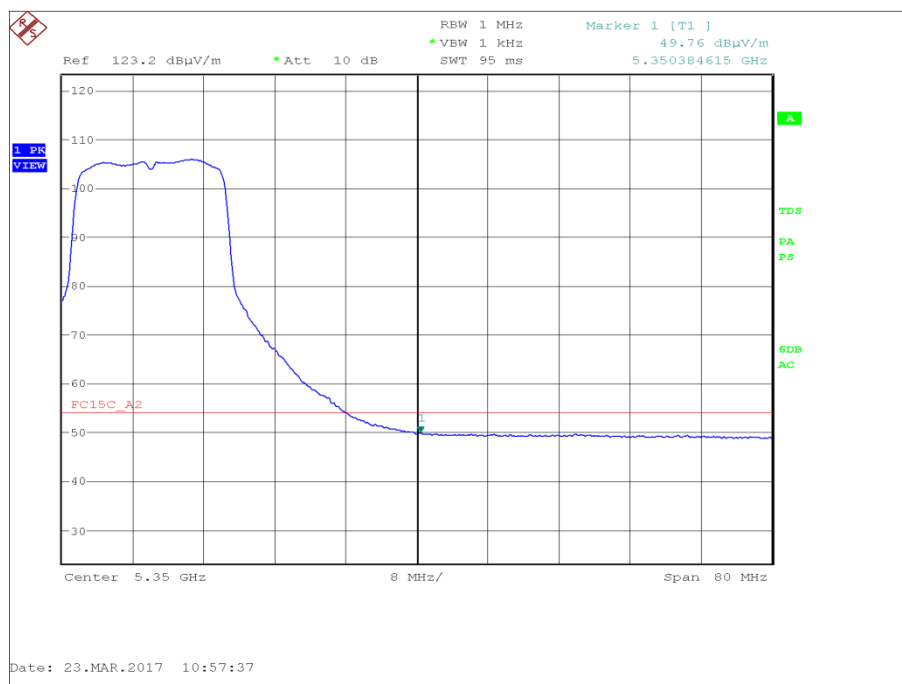
**Table 188 - UNII 2a - Restricted Band Edge Results**



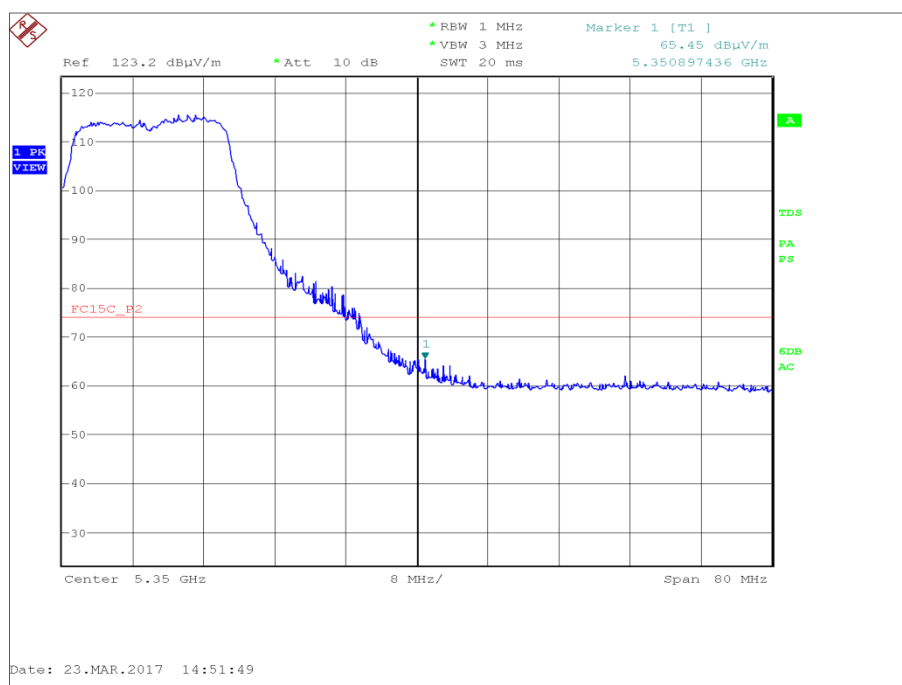
**Figure 206 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service



**Figure 207 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average**



**Figure 208 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak**



Product Service

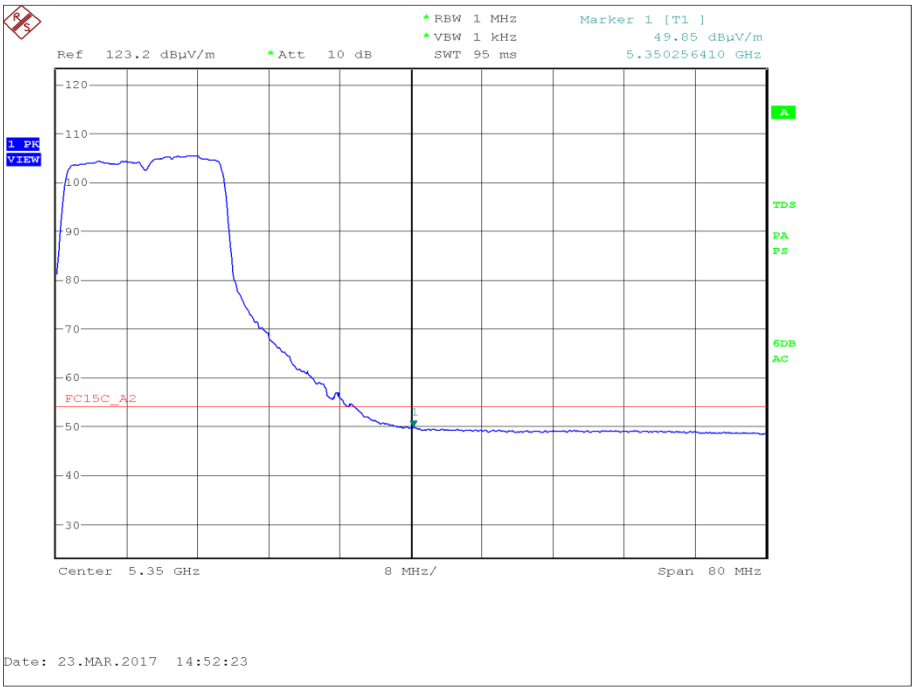
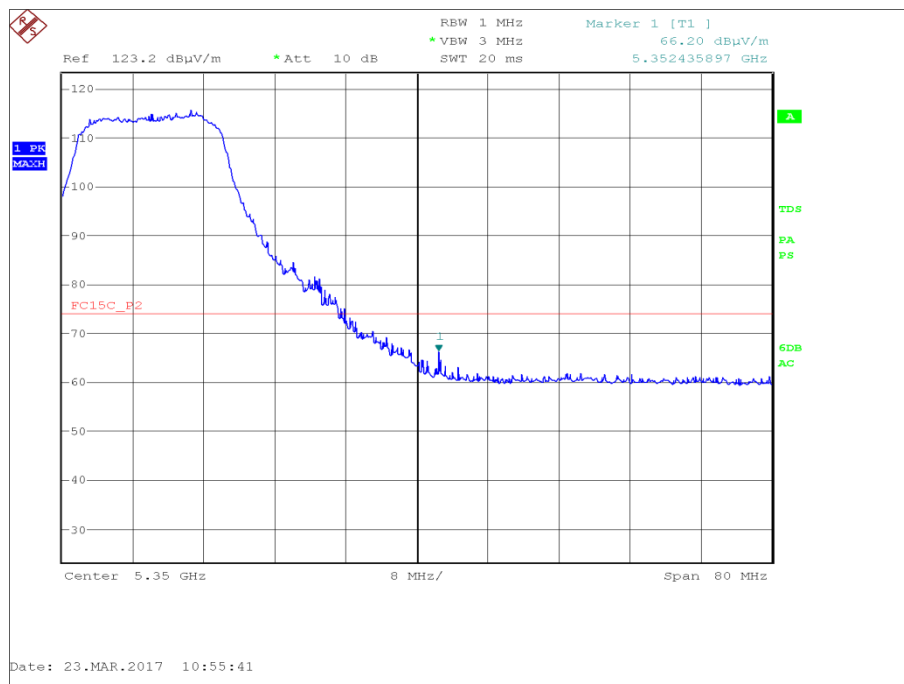


Figure 209 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5180                        | 5350                     | 66.20               | 49.76                  |
| Widest Emission Bandwidth | MCS3          | 5180                        | 5350                     | 64.50               | 53.65                  |

**Table 189 - UNII 2c- Restricted Band Edge Results**



**Figure 210 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

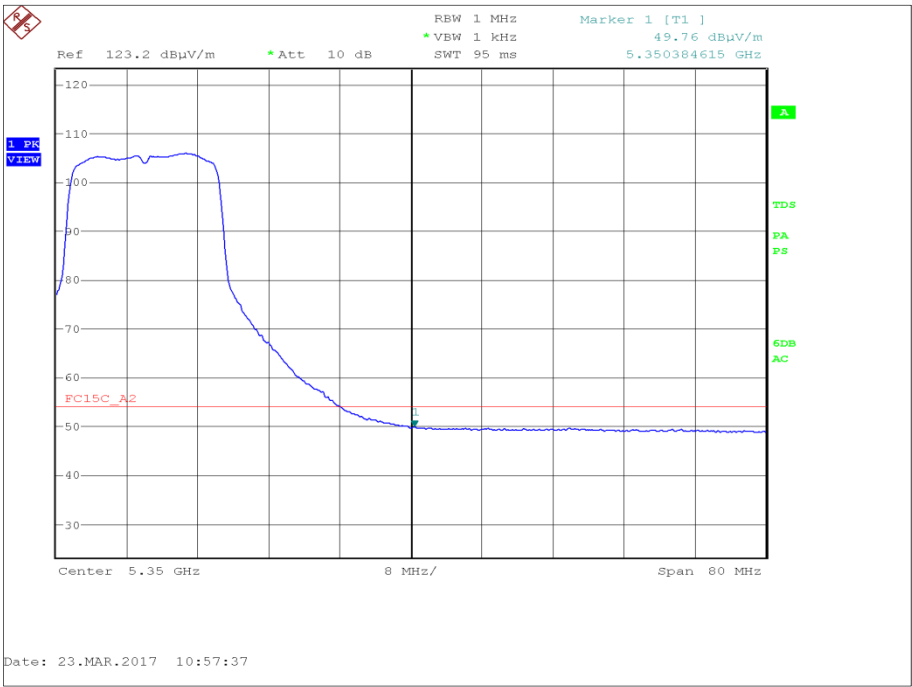


Figure 211 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

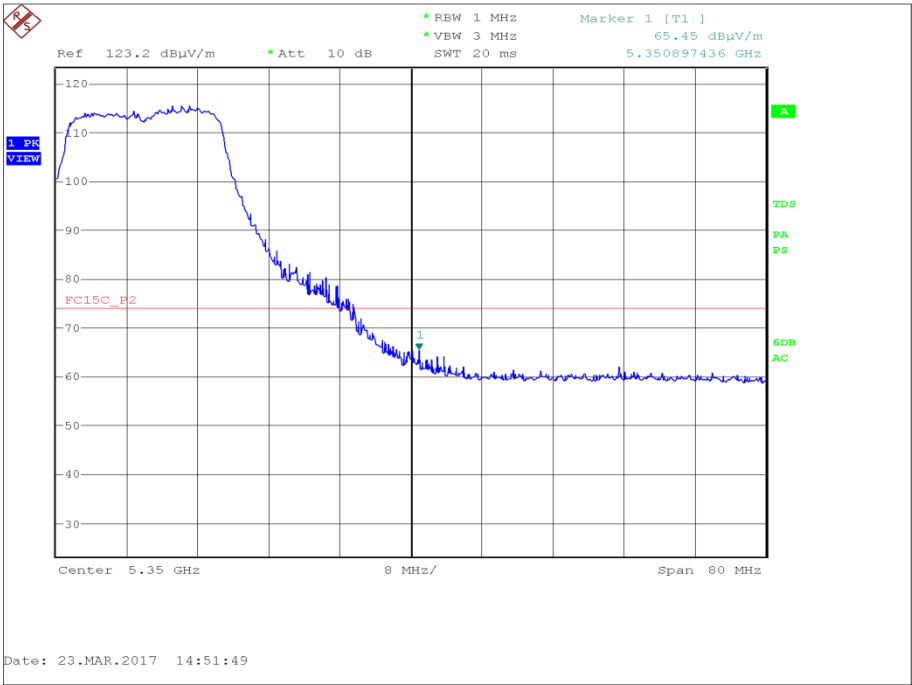


Figure 212 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

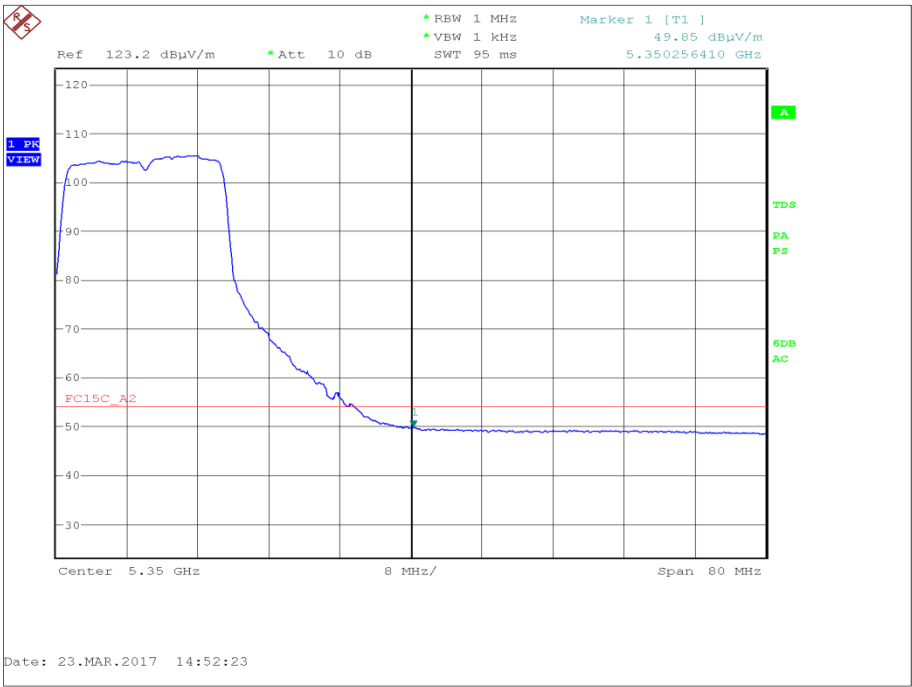


Figure 213 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

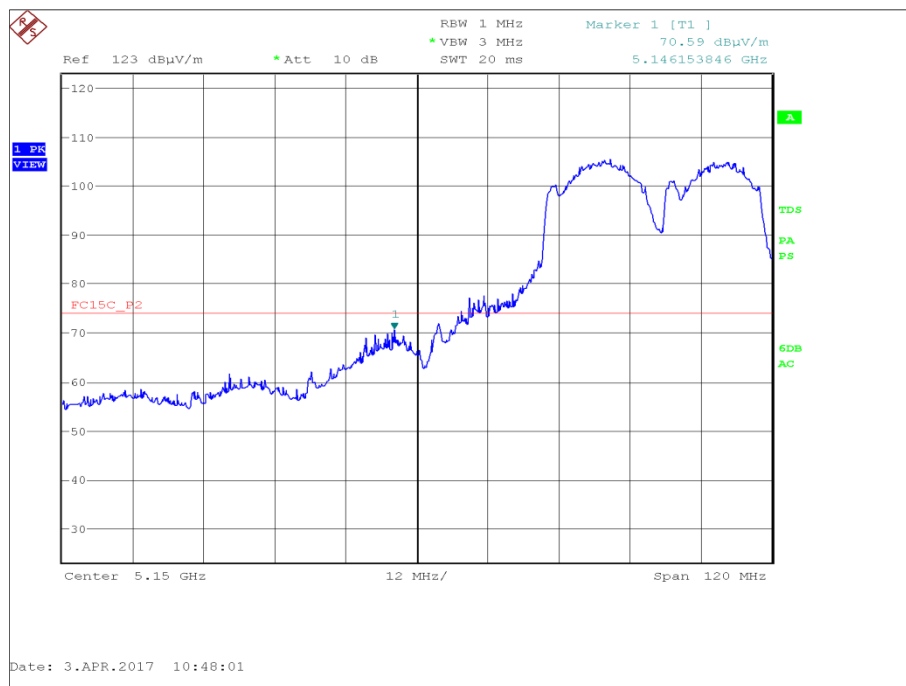
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 190

**ANT795-6MT - 802.11n 40 MHz Bandwidth**

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 70.59               | 53.46                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 69.45               | 53.01                  |

**Table 191 - UNII 1 - Restricted Band Edge Results**



**Figure 214 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**



Product Service

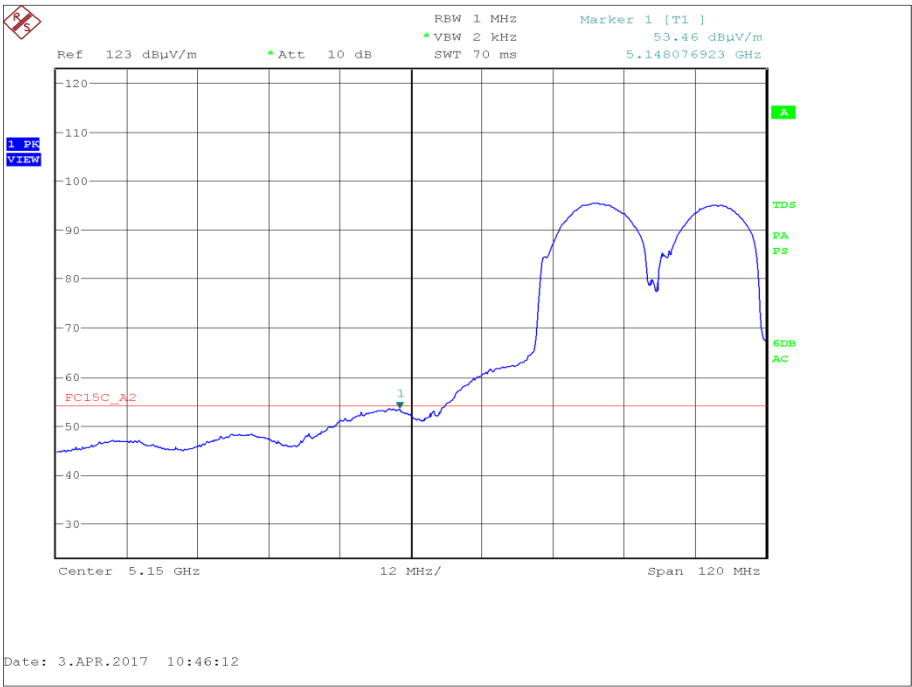


Figure 215 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

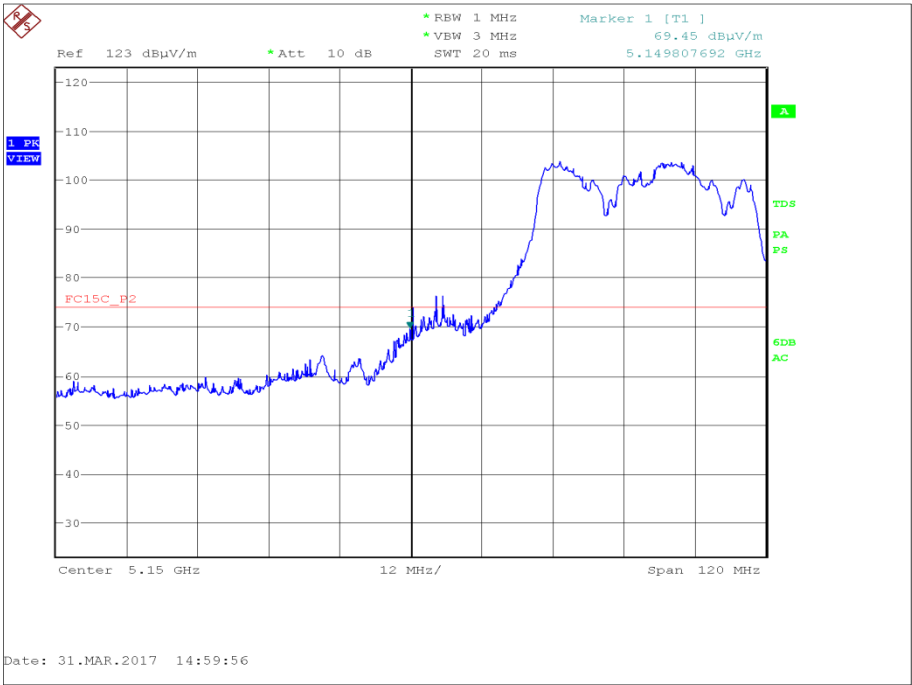


Figure 216 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service

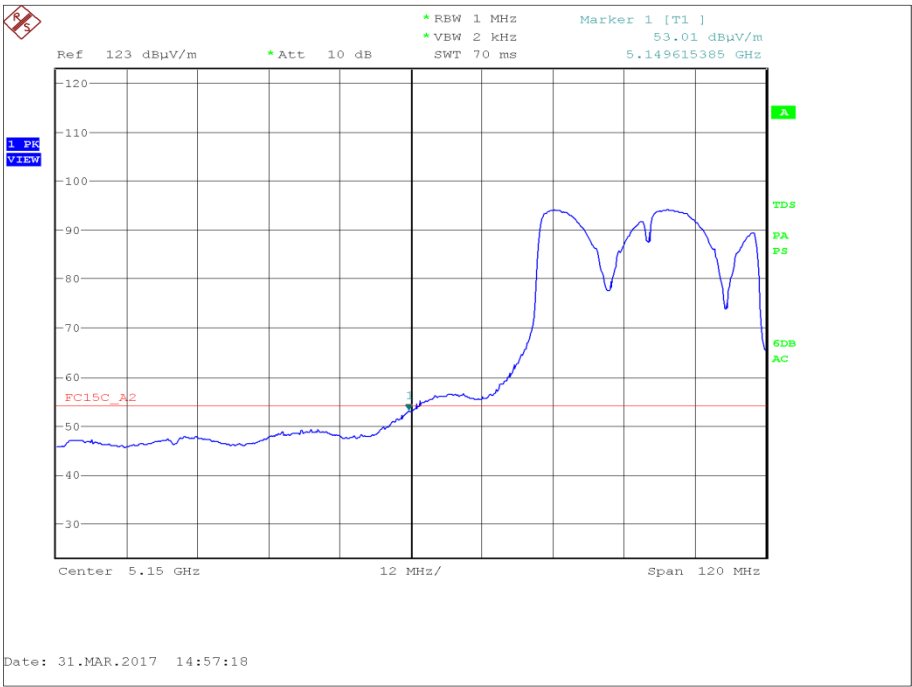
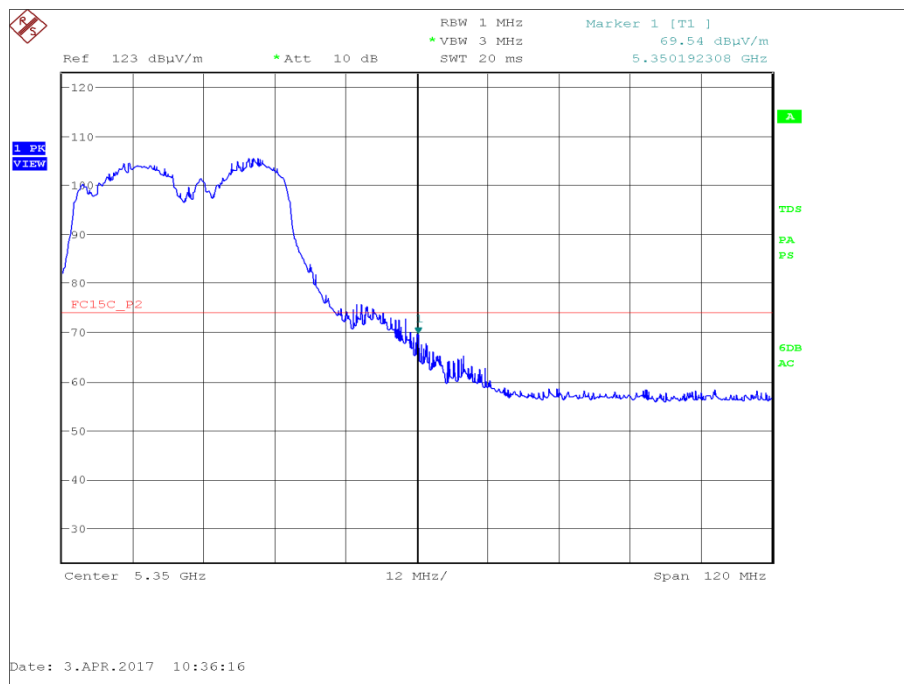


Figure 217 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth-Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 69.54               | 50.30                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 70.62               | 51.60                  |

**Table 192 - UNII 2a - Restricted Band Edge Results**



**Figure 218 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

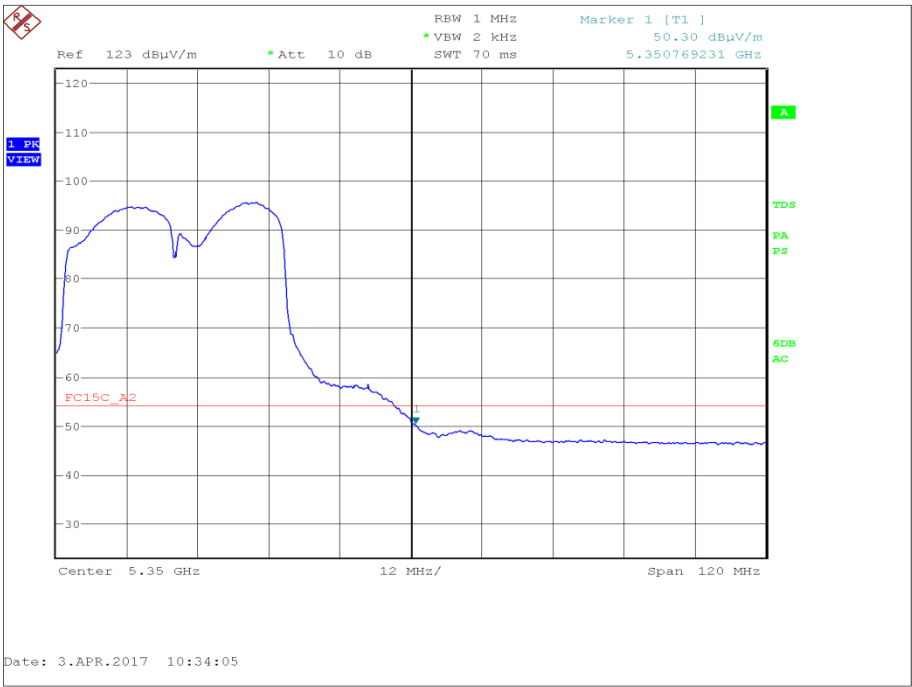


Figure 219 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

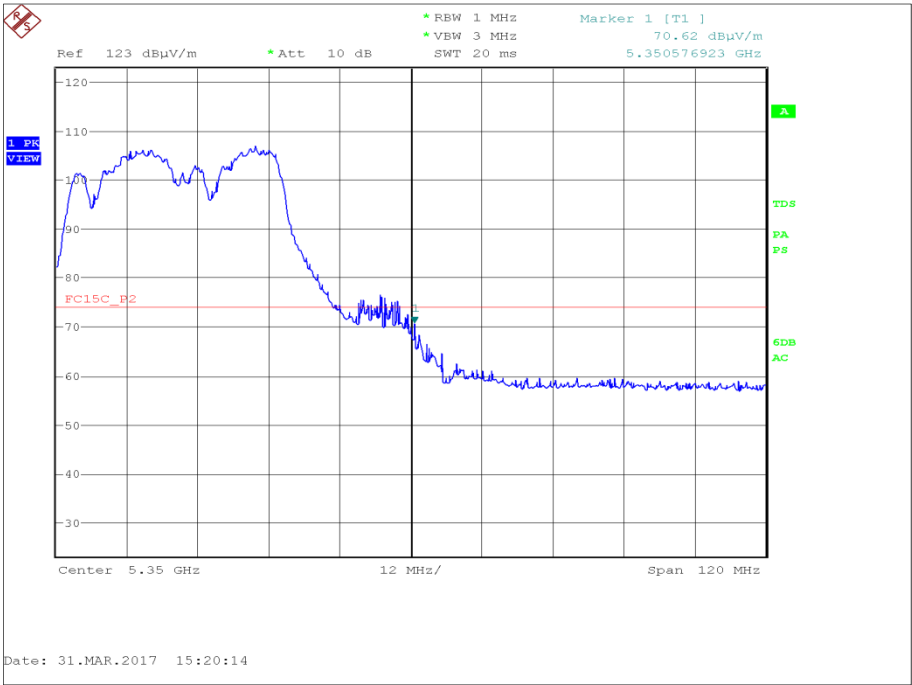


Figure 220 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

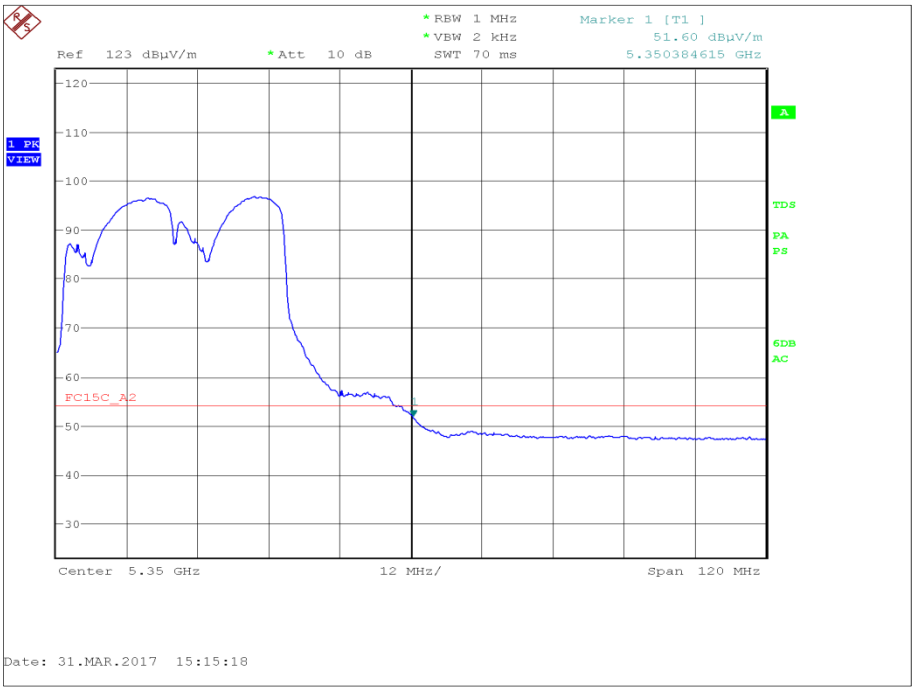
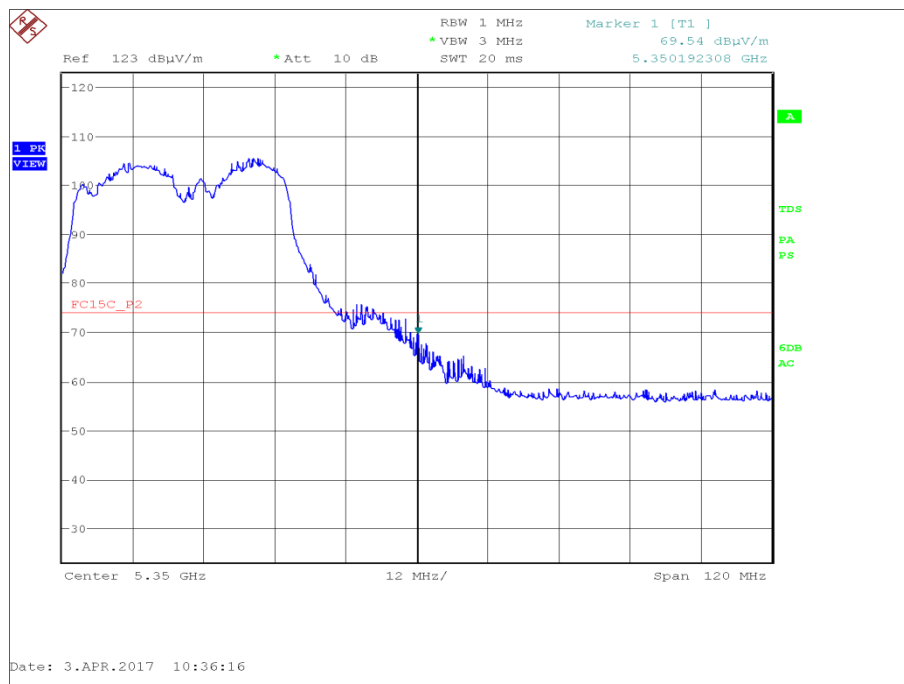


Figure 221 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 69.54               | 50.30                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 70.62               | 51.60                  |

**Table 193 - UNII 2c- Restricted Band Edge Results**



**Figure 222 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

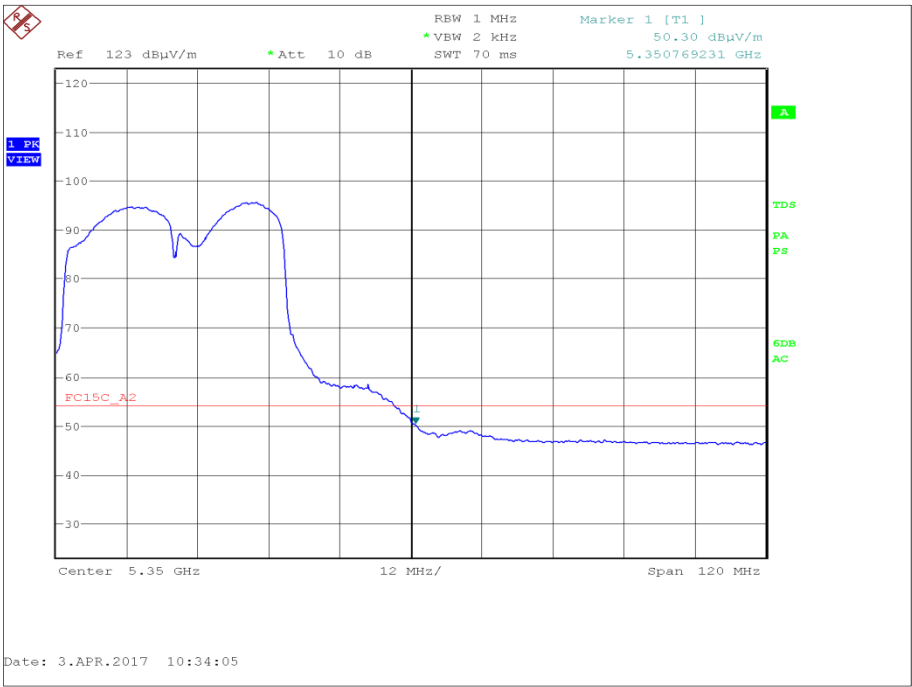


Figure 223 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

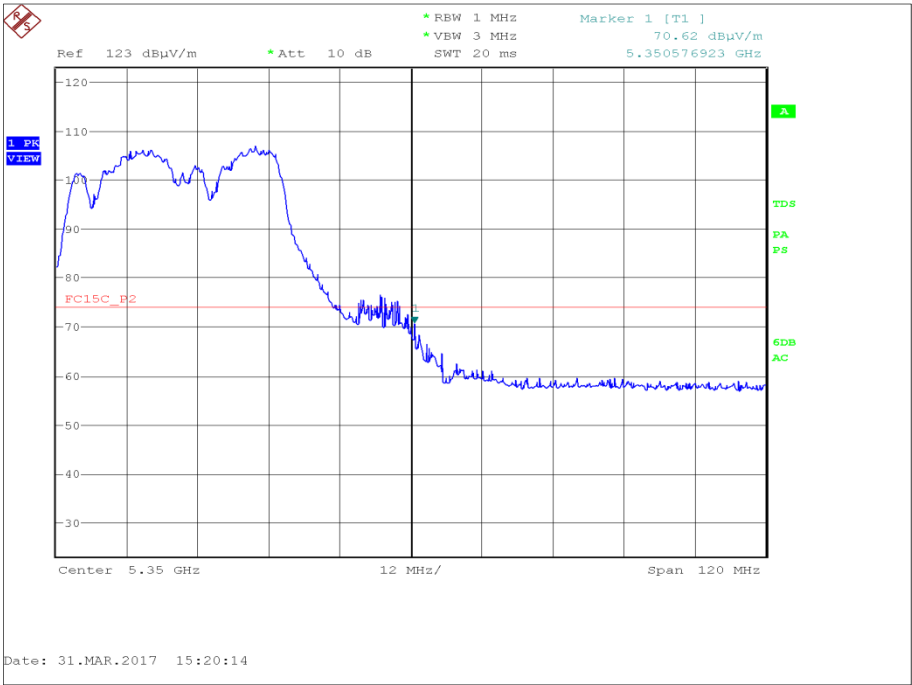


Figure 224 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

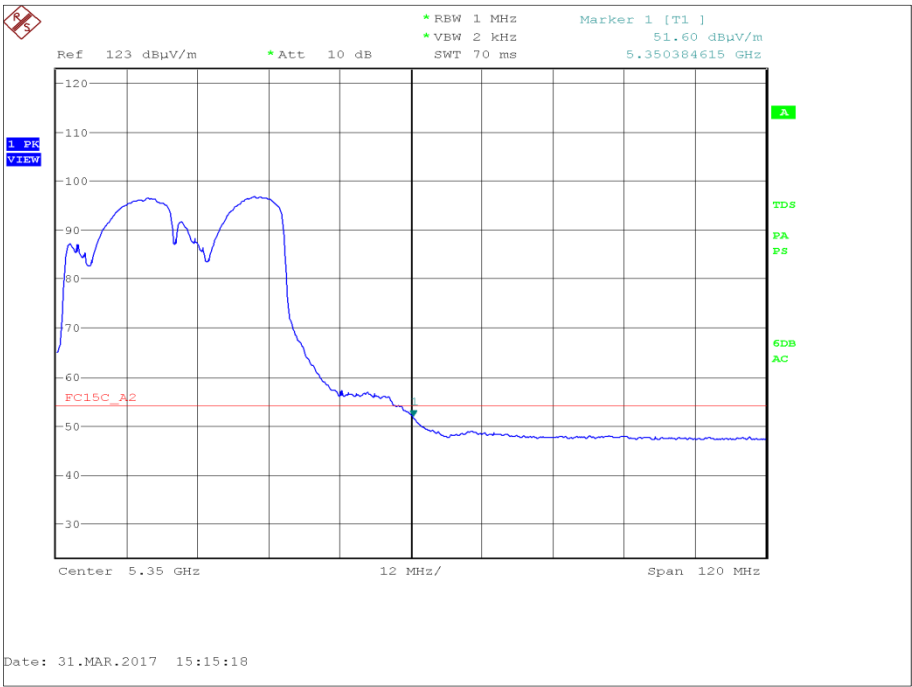


Figure 225 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

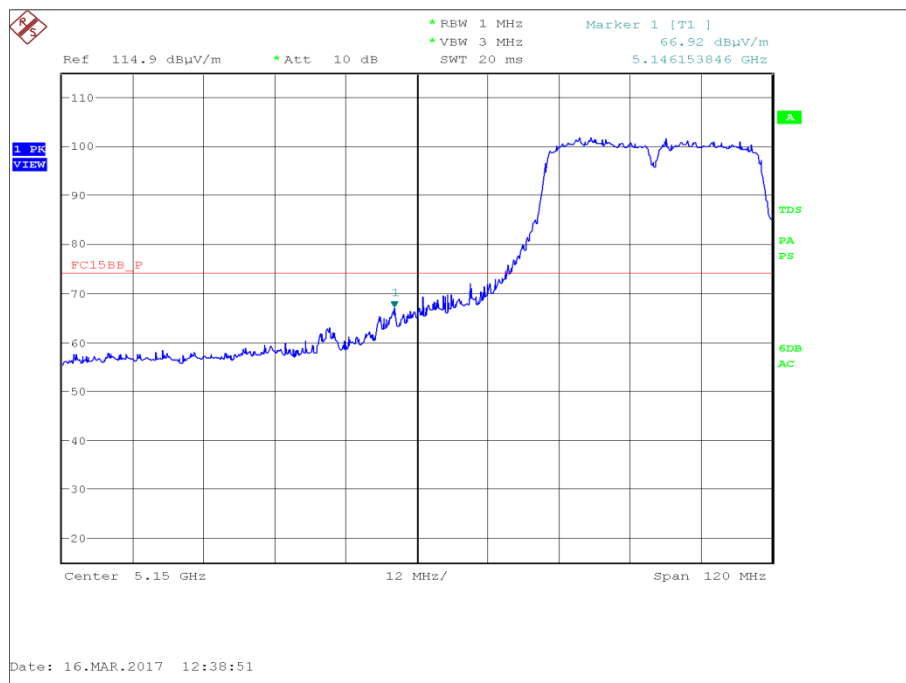
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 194

ANT793-6DG - 802.11n 40 MHz Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 66.92               | 50.97                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 66.43               | 51.54                  |

**Table 195 - UNII 1 - Restricted Band Edge Results**



**Figure 226 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**



Product Service

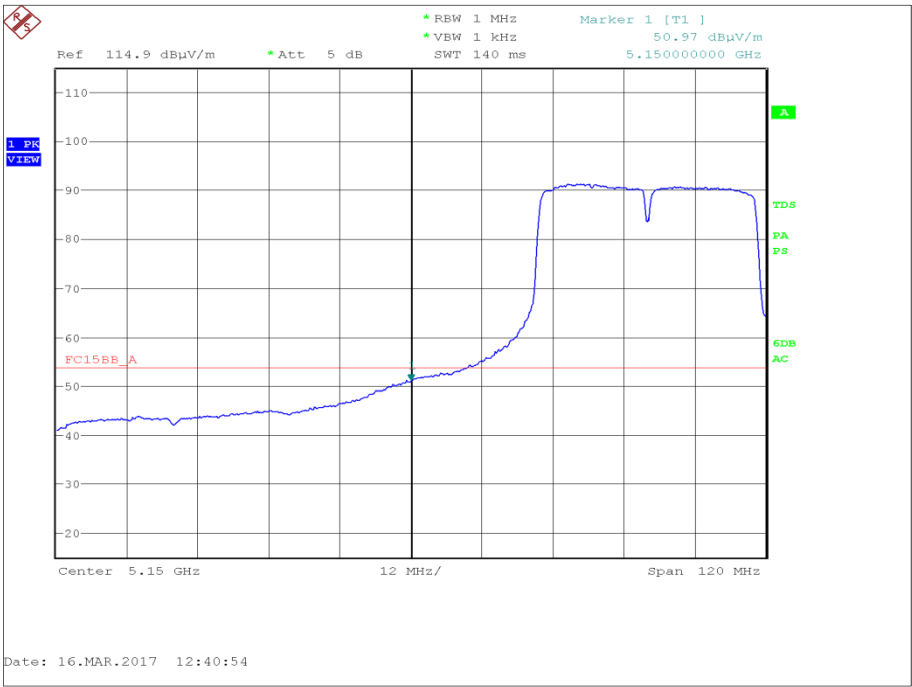


Figure 227 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

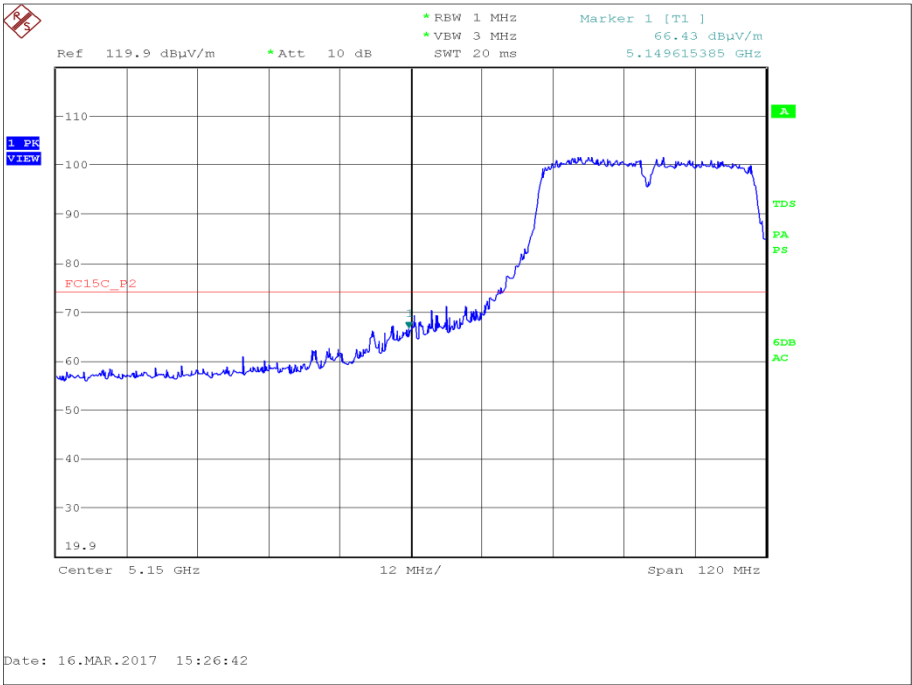


Figure 228 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service

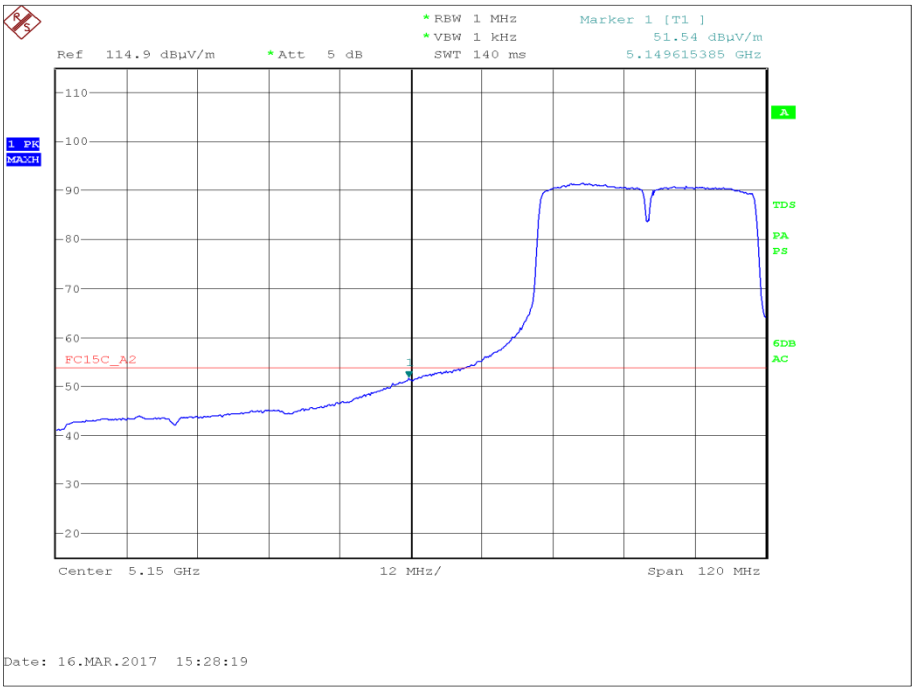
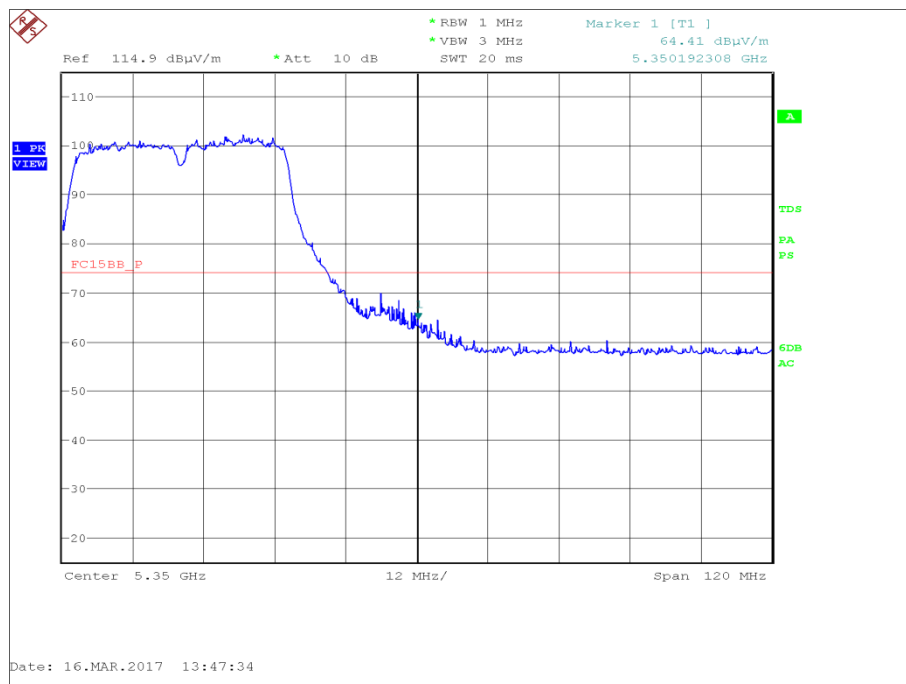


Figure 229 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 64.41               | 49.27                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 64.44               | 47.89                  |

**Table 196 - UNII 2a - Restricted Band Edge Results**



**Figure 230 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

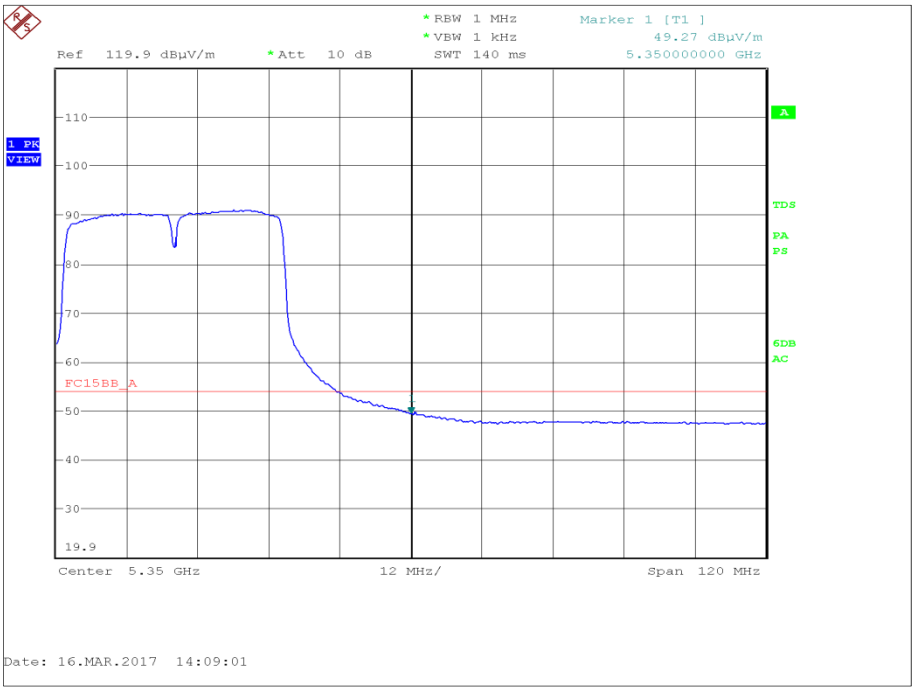


Figure 231 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

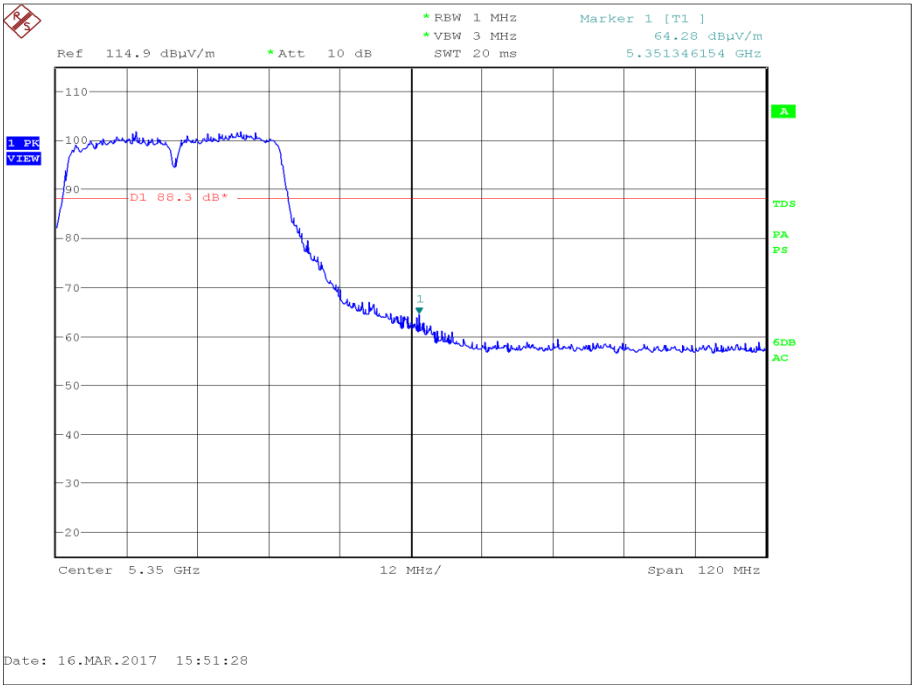
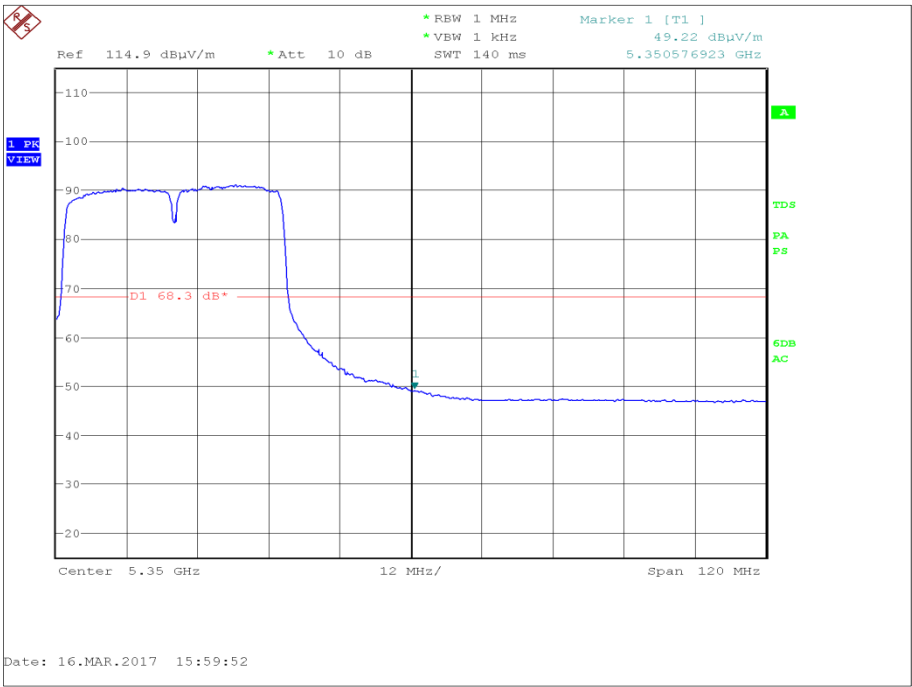


Figure 232 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service



**Figure 233 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average**



Product Service

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBµV/m) | Average Level (dBµV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 64.41               | 49.27                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 64.44               | 47.89                  |

Table 197 - UNII 2c- Restricted Band Edge Results

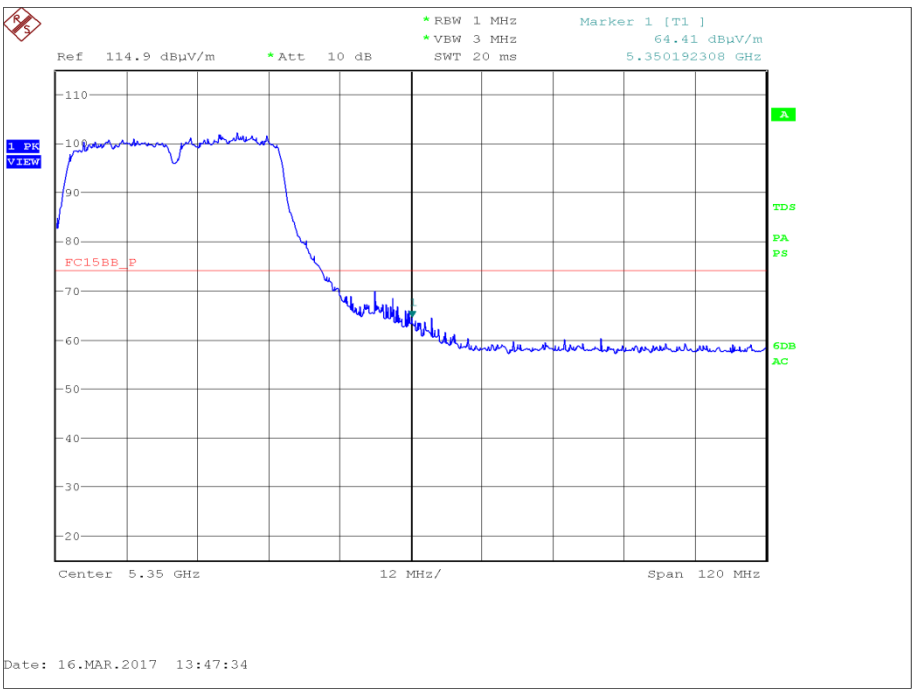


Figure 234 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak



Product Service

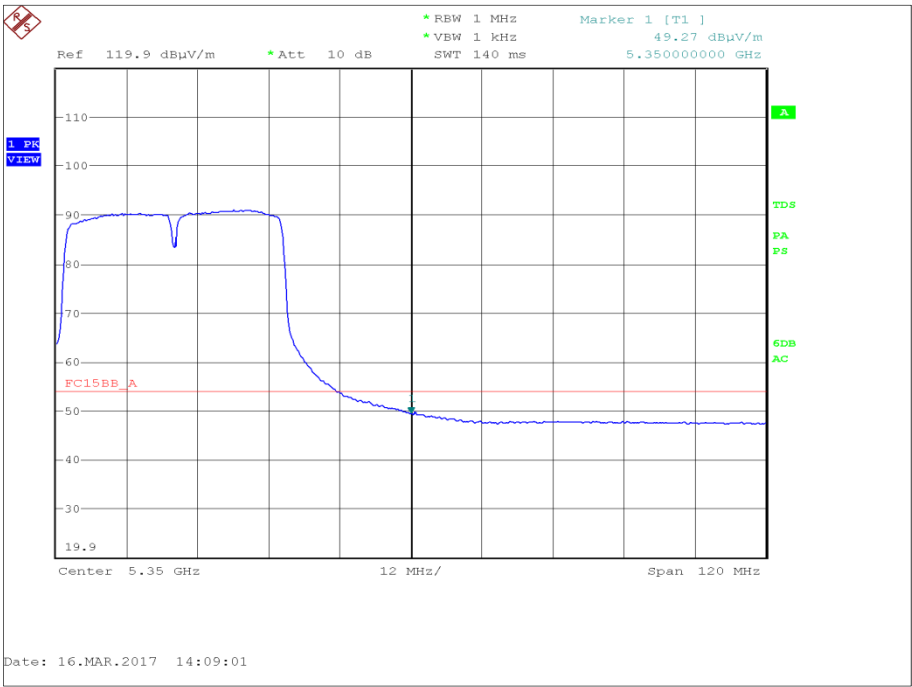


Figure 235 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

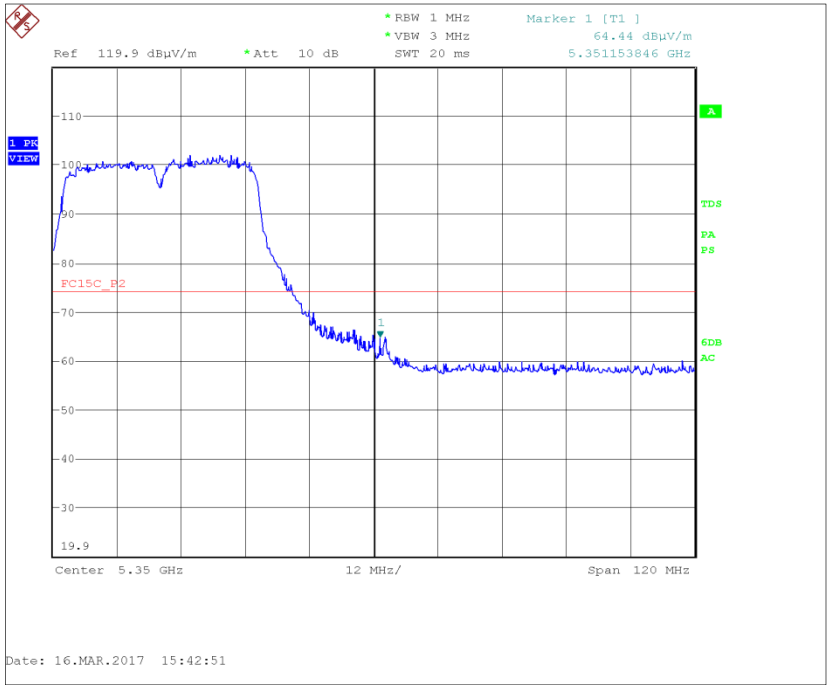


Figure 236 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

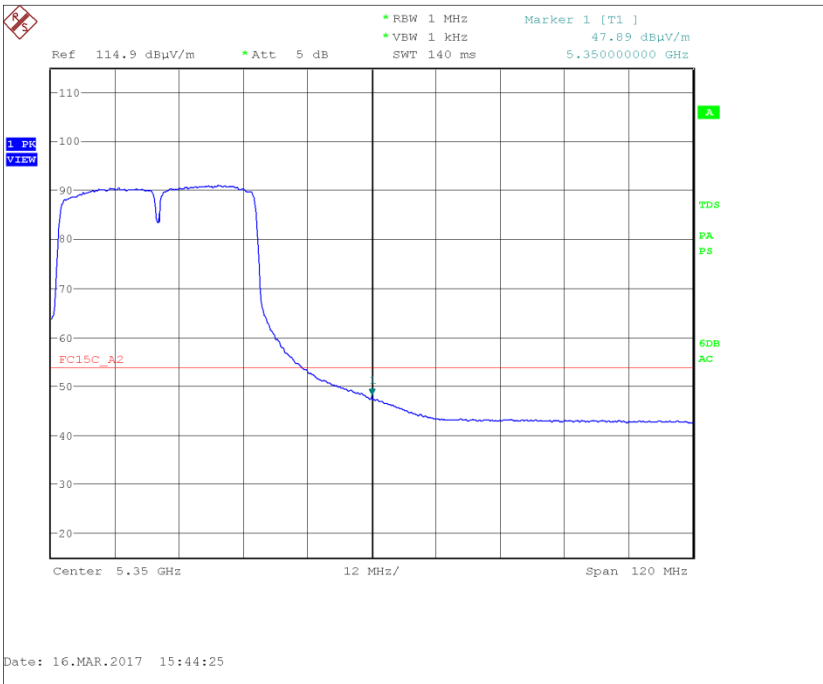


Figure 237 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

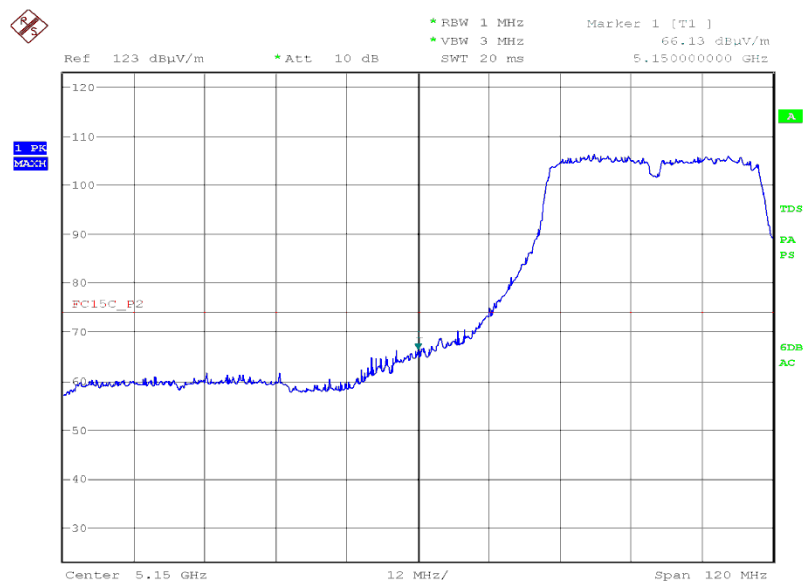
|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 198

ANT793-8DK + 10m Cable - 802.11n 40 MHz Bandwidth

| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5150                     | 66.13               | 53.13                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5150                     | 66.24               | 53.24                  |

**Table 199 - UNII 1 - Restricted Band Edge Results**

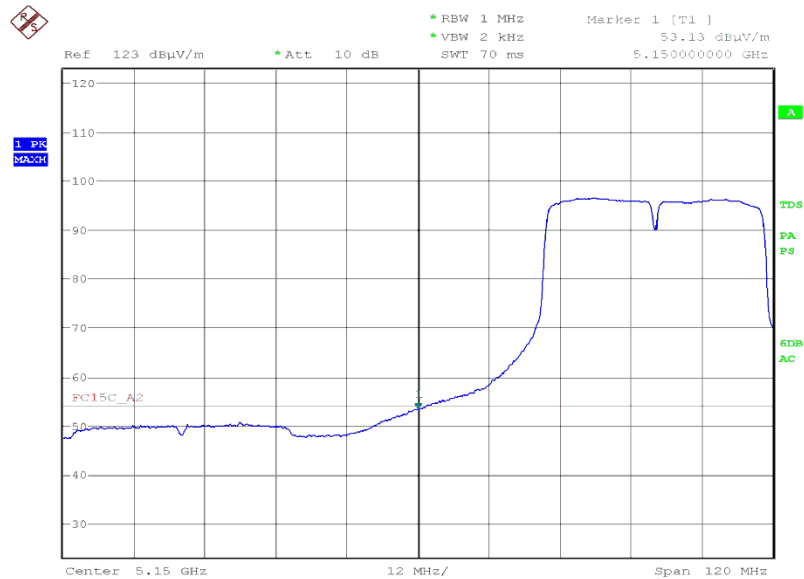


Date: 14.JUN.2017 19:43:11

**Figure 238 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Peak**

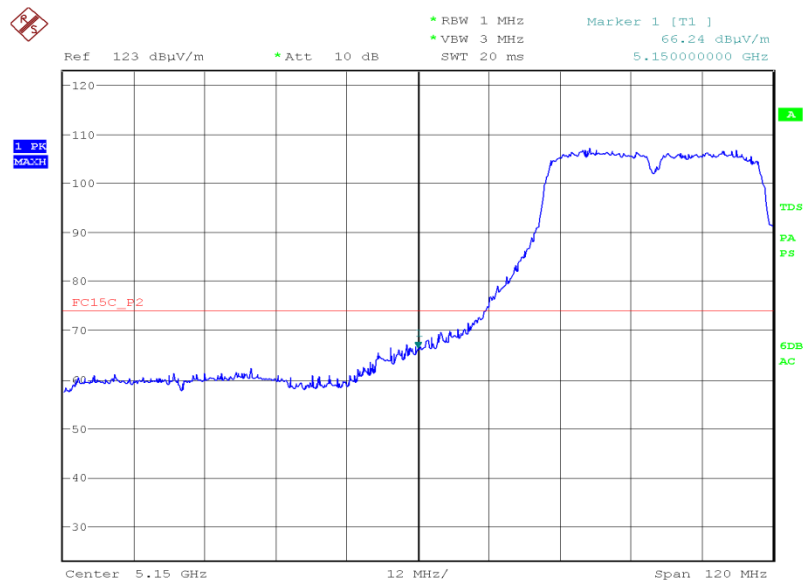


Product Service



Date: 14.JUN.2017 19:42:45

Figure 239 - U-NII 1 - Restricted Band Edge at 5150 MHz - Highest Conducted Power - Average

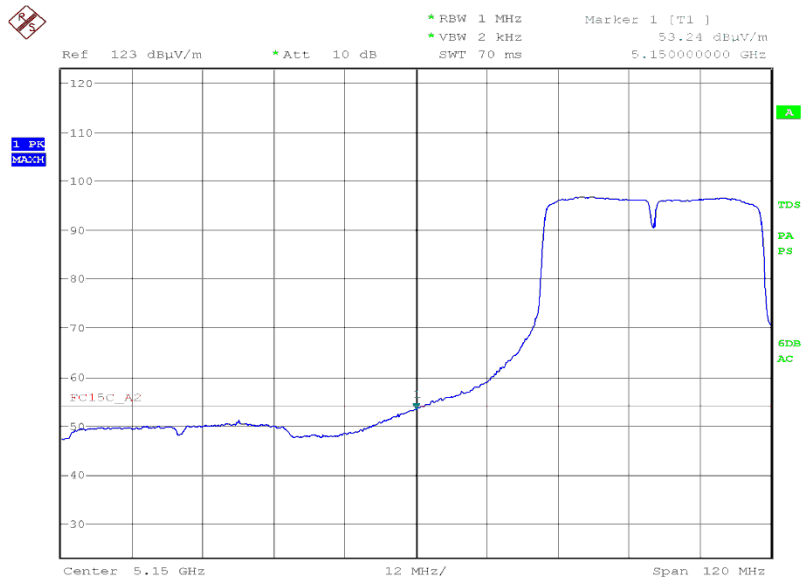


Date: 14.JUN.2017 19:50:58

Figure 240 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Peak



Product Service



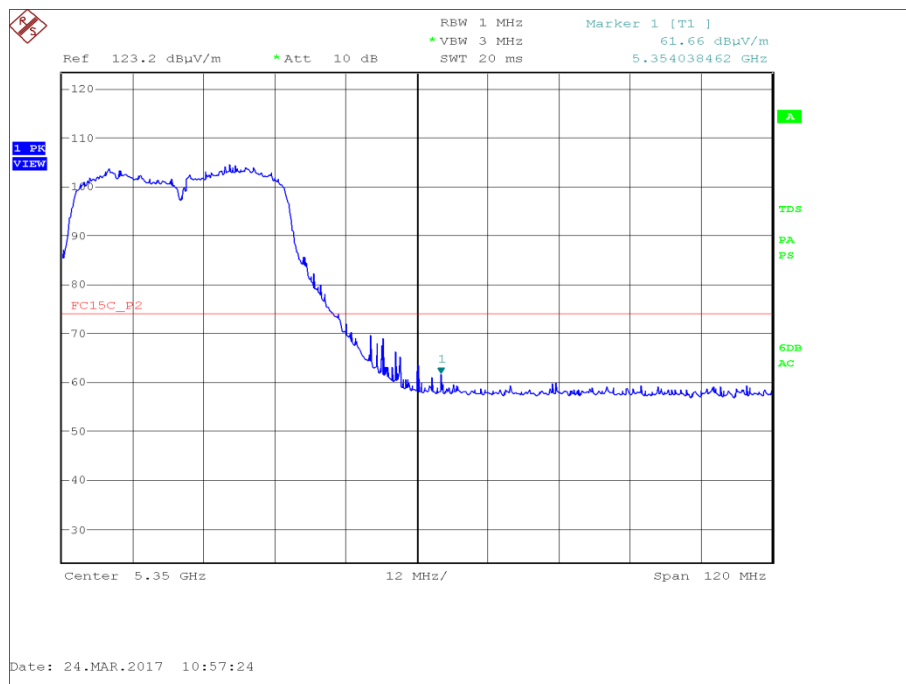
Date: 14.JUN.2017 19:51:34

**Figure 241 - U-NII 1 - Restricted Band Edge at 5150 MHz - Widest Emission Bandwidth - Average**



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 61.66               | 47.85                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 63.75               | 51.13                  |

**Table 200 - UNII 2a - Restricted Band Edge Results**



**Figure 242 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

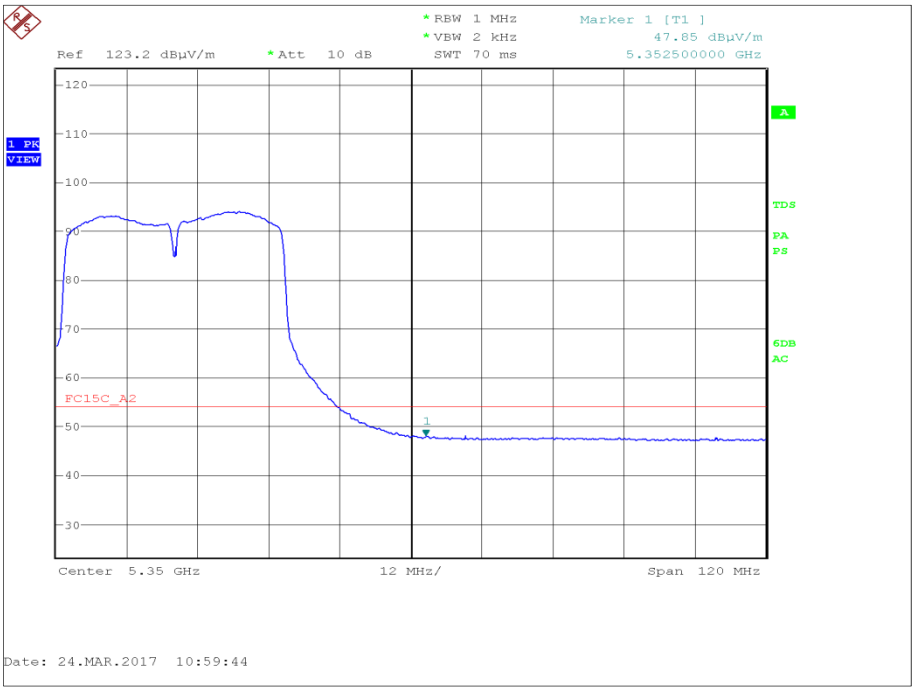


Figure 243 - U-NII 2a - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

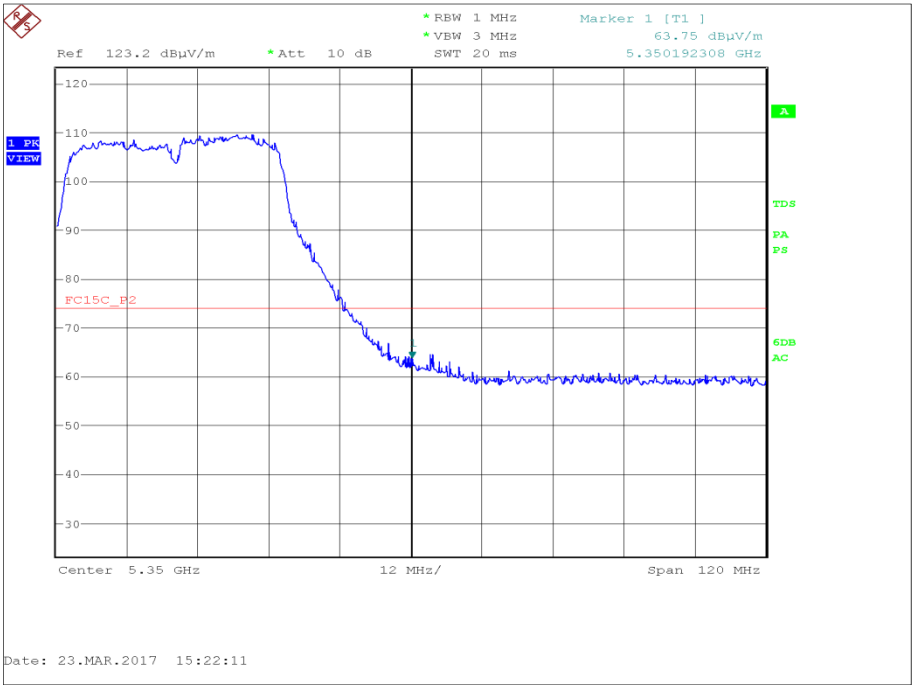


Figure 244 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

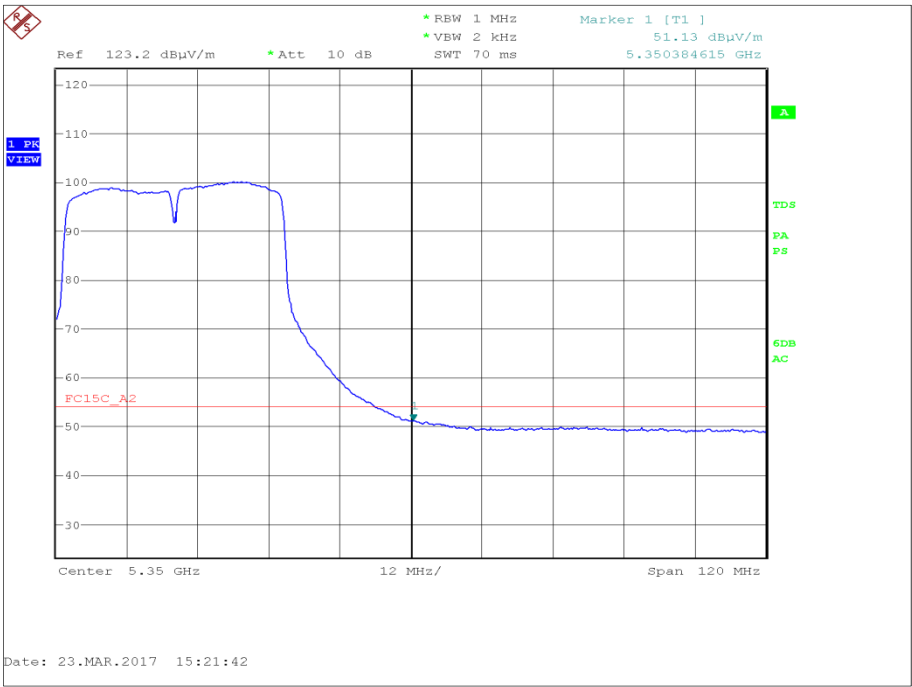
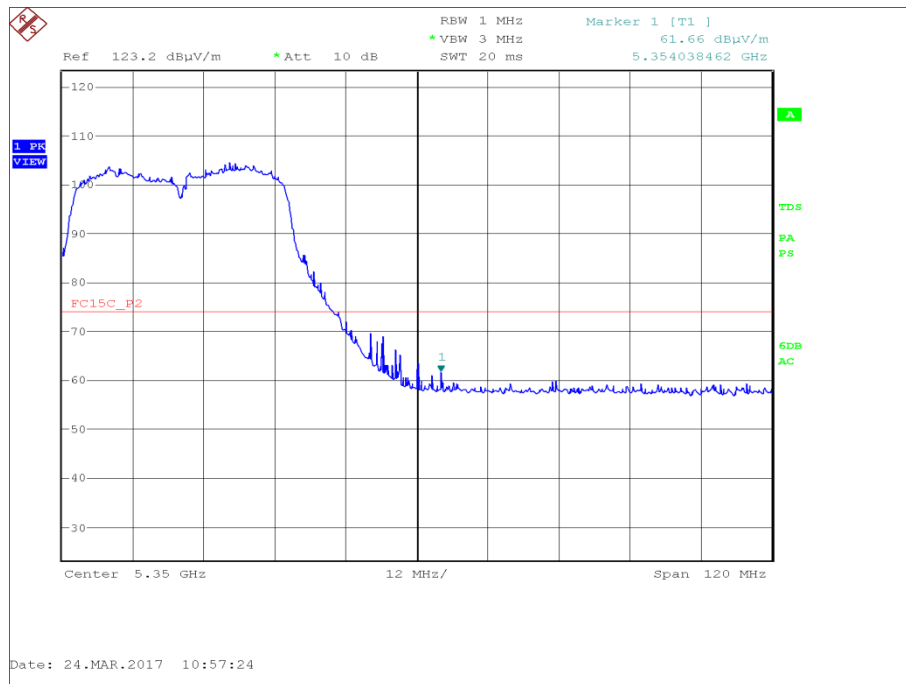


Figure 245 - U-NII 2a - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average



| Measurement Configuration | Data Rate/MCS | Transmitter Frequency (MHz) | Measured Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|---------------------------|---------------|-----------------------------|--------------------------|---------------------|------------------------|
| Highest Conducted Power   | MCS0          | 5190                        | 5350                     | 61.66               | 47.85                  |
| Widest Emission Bandwidth | MCS3          | 5190                        | 5350                     | 63.75               | 51.13                  |

**Table 201 - UNII 2c- Restricted Band Edge Results**



**Figure 246 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Peak**



Product Service

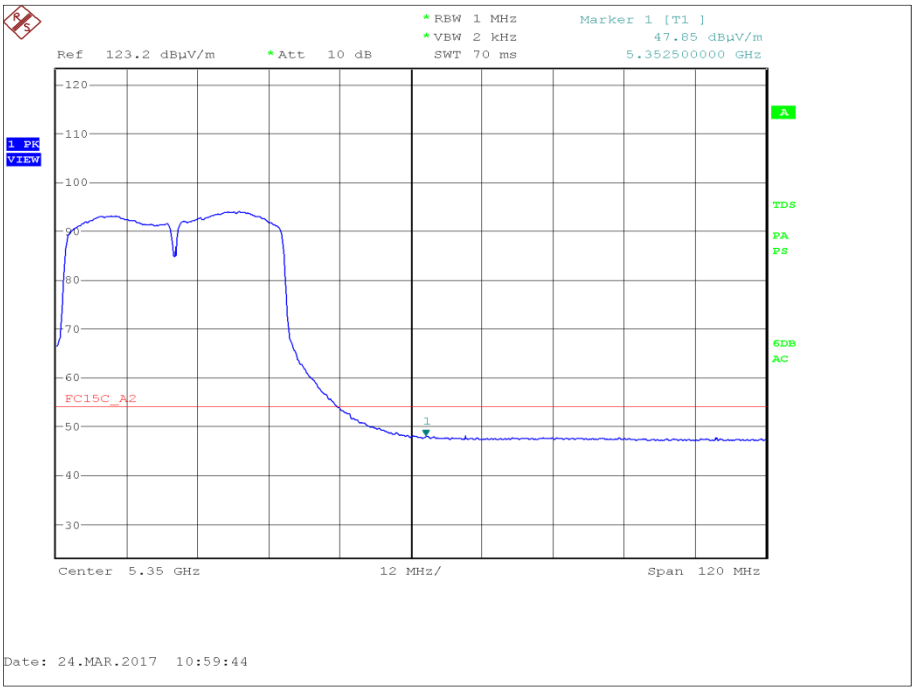


Figure 247 - U-NII 2c - Restricted Band Edge at 5350 MHz - Highest Conducted Power - Average

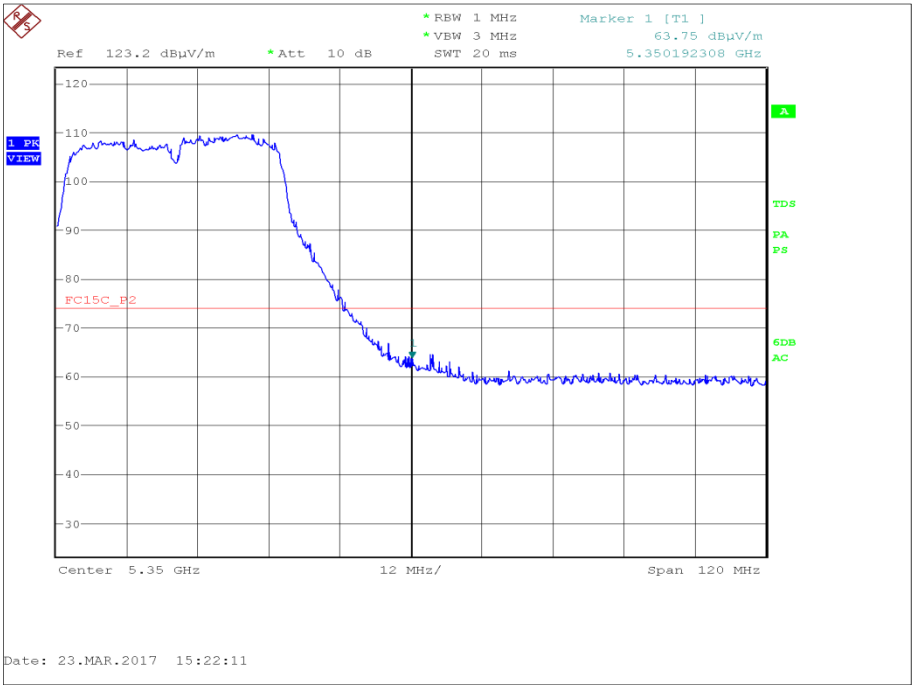


Figure 248 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Peak



Product Service

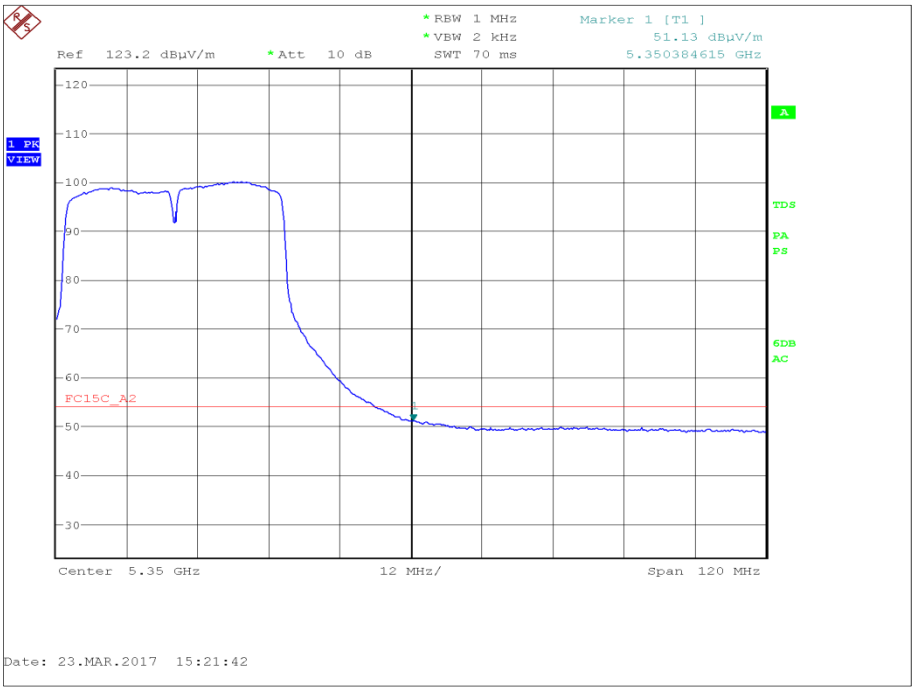


Figure 249 - U-NII 2c - Restricted Band Edge at 5350 MHz - Widest Emission Bandwidth - Average

FCC 47 CFR Part 15, Limit Clause 15.205 and Industry Canada RSS-GEN Limit Clause 8.10

|                               | Peak (dBμV/m) | Average (dBμV/m) |
|-------------------------------|---------------|------------------|
| Restricted Bands of Operation | 74            | 54               |

Table 202

## 2.5.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

| Instrument                          | Manufacturer    | Type No           | TE No | Calibration Period (months) | Calibration Due |
|-------------------------------------|-----------------|-------------------|-------|-----------------------------|-----------------|
| Hygrometer                          | Rotronic        | A1                | 1388  | 12                          | 13-Apr-2017     |
| Hygrometer                          | Rotronic        | A1                | 1388  | 12                          | 04-May-2018     |
| Screened Room (5)                   | Rainford        | Rainford          | 1545  | 36                          | 20-Dec-2017     |
| Turntable Controller                | Inn-Co GmbH     | CO 1000           | 1606  | -                           | TU              |
| Cable (N-N, 8m)                     | Rhophase        | NPS-2302-8000-NPS | 3248  | -                           | TU              |
| EMI Test Receiver                   | Rohde & Schwarz | ESU40             | 3506  | 12                          | 12-Nov-2017     |
| Multimeter                          | Fluke           | 177               | 3813  | 12                          | 14-Sep-2017     |
| Tilt Antenna Mast                   | maturo GmbH     | TAM 4.0-P         | 3916  | -                           | TU              |
| Mast Controller                     | maturo GmbH     | NCD               | 3917  | -                           | TU              |
| Cable (Yellow, Rx, Km-Km 2m)        | Scott Cables    | KPS-1501-2000-KPS | 4527  | -                           | O/P Mon         |
| Double Ridge Broadband Horn Antenna | Schwarzbeck     | BBHA 9120 B       | 4848  | 12                          | 17-Feb-2018     |

**Table 203**

TU - Traceability Unscheduled  
 O/P Mon – Output Monitored



## **2.6 Spurious Radiated Emissions**

### **2.6.1 Specification Reference**

FCC 47 CFR Part 15E, Clause 15.407 (b) and 15.205  
Industry Canada RSS-247, Clause 6.2

### **2.6.2 Equipment Under Test and Modification State**

MSN65-W1-M12-E2, S/N: Not Serialised (75938097-TSR0001) - Modification State 0

### **2.6.3 Date of Test**

03-April-2017 to 04-June-2017

### **2.6.4 Test Method**

The test was performed in accordance with ANSI C63.10, clause 6.5, 6.6 and 12.7.

The limit line was increased by  $20 \cdot \text{LOG}_{10}(3/1) = 10$  dB (approx.) as the measurement distance was reduced from 3 meter to 1 meter at frequencies above 18 GHz.

The black trace on the plots below are for peak measurements and the blue trace is for average measurements, using the reduced video bandwidth procedure.

### **2.6.5 Environmental Conditions**

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 18.0 - 22.0 °C |
| Relative Humidity   | 31.0 - 57.0 %  |

## 2.6.6 Test Results

### ANT795-6MT - 802.11a

Testing was performed on the Data Rate which resulted in the highest conducted output power.  
The Data Rate used during testing was 6 Mbps.

| Frequency (MHz) | QP Level (dBuV/m) | QP Limit (dBuV/m) | QP Margin (dBuV/m) | Angle(Deg) | Height(m) | Polarity   |
|-----------------|-------------------|-------------------|--------------------|------------|-----------|------------|
| 34.654          | 32.7              | 40.0              | -7.3               | 284        | 1.00      | Vertical   |
| 56.675          | 29.5              | 40.0              | -10.5              | 312        | 1.00      | Vertical   |
| 143.404         | 29.5              | 43.5              | -14.0              | 87         | 1.00      | Vertical   |
| 550.611         | 30.3              | 46.0              | -15.7              | 36         | 1.00      | Vertical   |
| 613.093         | 41.5              | 46.0              | -4.5               | 94         | 1.71      | Horizontal |
| 731.630         | 35.6              | 46.0              | -10.4              | 138        | 1.29      | Horizontal |

Table 204 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz

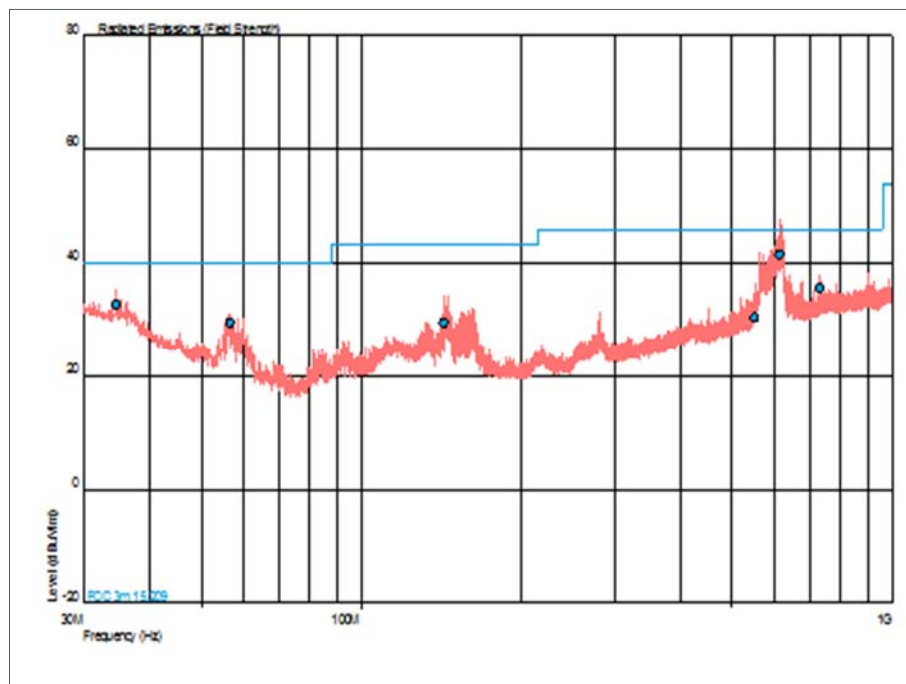


Figure 250 - U-NII 1 - 5180 MHz - 30 MHz to 1 GHz - Horizontal and Vertical

| Frequency (GHz) | Result (μV/m) |         | Limit (μV/m) |         | Margin (μV/m) |         |
|-----------------|---------------|---------|--------------|---------|---------------|---------|
|                 | Peak          | Average | Peak         | Average | Peak          | Average |
| *               |               |         |              |         |               |         |

Table 205 - U-NII 1 - 5180 MHz - 1 GHz to 40 GHz

\*No emissions were detected within 6 dB of the limit.



Product Service

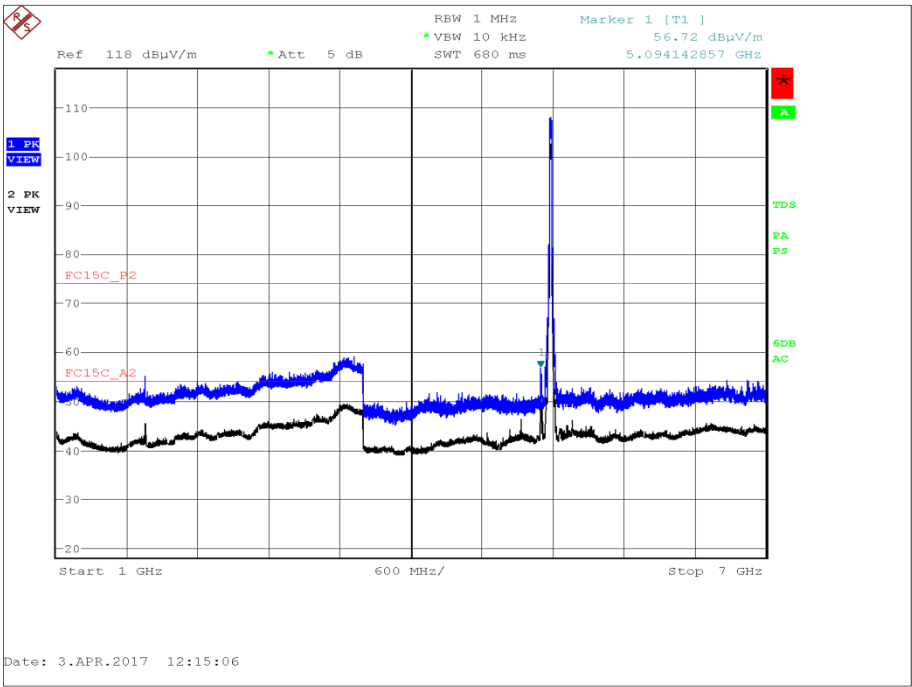


Figure 251 - U-NII 1 - 5180 MHz - 1 GHz to 7 GHz - Horizontal and Vertical

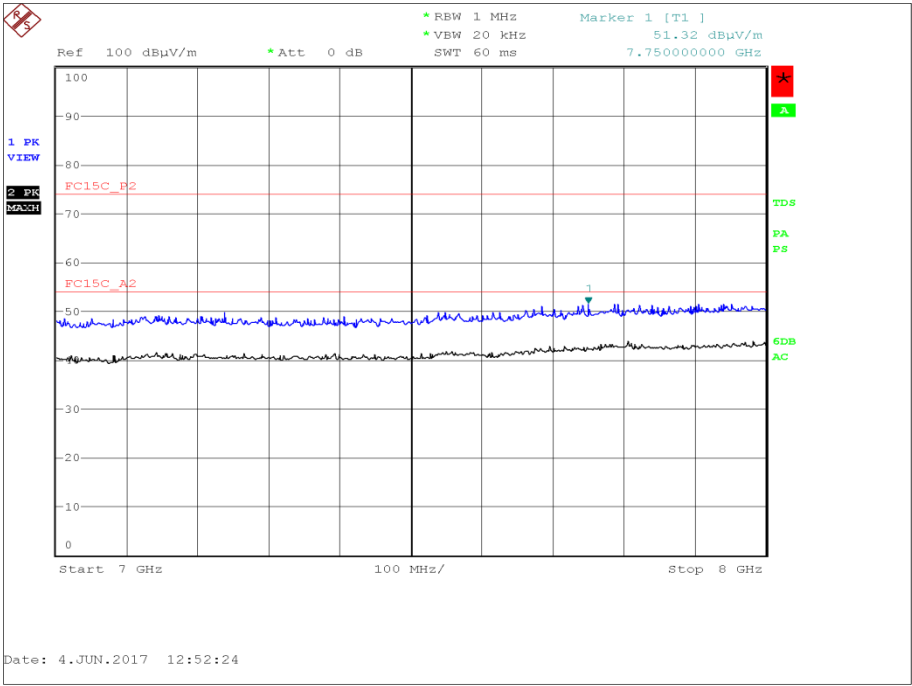


Figure 252 - U-NII 1 - 5180 MHz - 7 GHz to 8 GHz - Horizontal and Vertical



Product Service

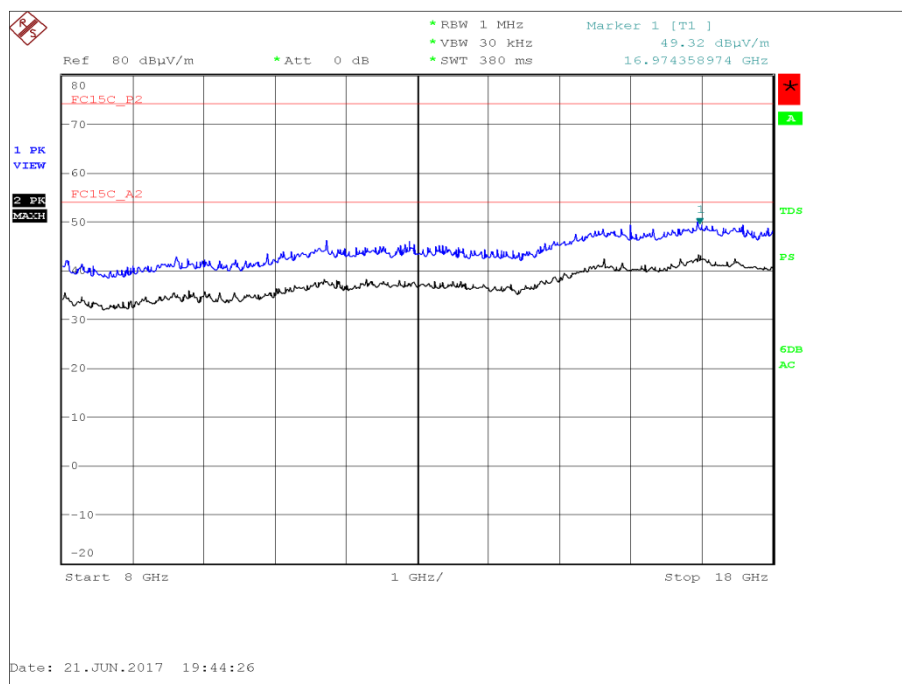


Figure 253 - U-NII 1 - 5180 MHz - 8 GHz to 18 GHz - Horizontal and Vertical

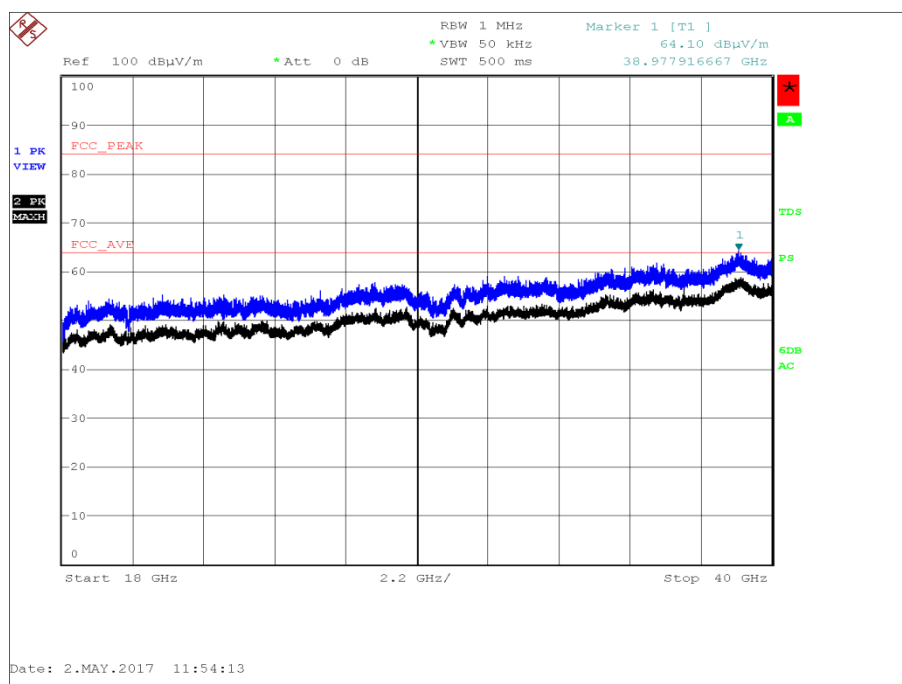
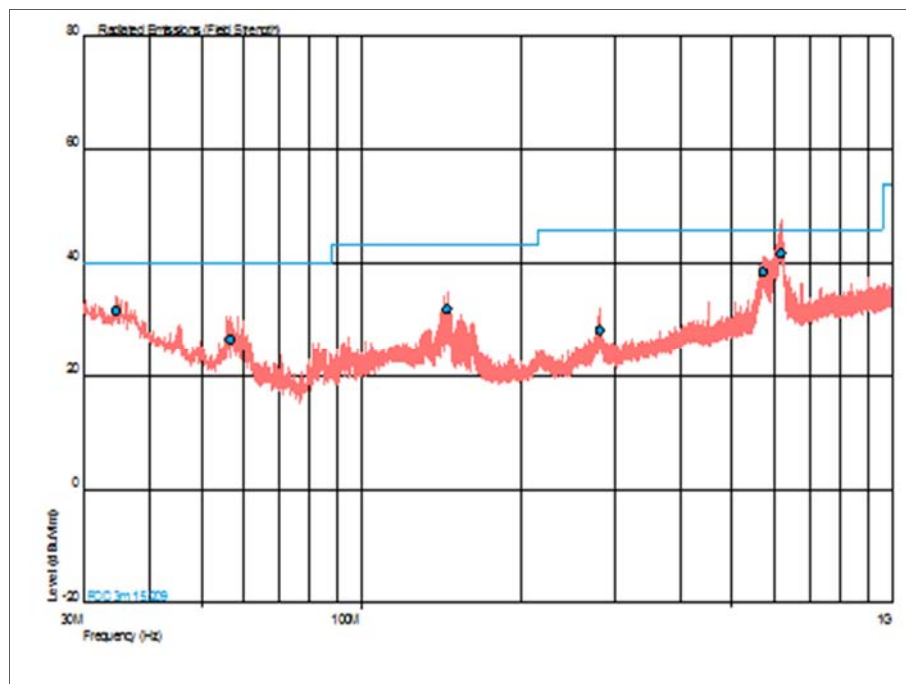


Figure 254 - U-NII 1 - 5180 MHz - 18 GHz to 40 GHz - Horizontal and Vertical

| Frequency (MHz) | QP Level (dBuV/m) | QP Limit (dBuV/m) | QP Margin (dBuV/m) | Angle(Deg) | Height(m) | Polarity   |
|-----------------|-------------------|-------------------|--------------------|------------|-----------|------------|
| 34.612          | 31.5              | 40.0              | -8.5               | 106        | 1.00      | Vertical   |
| 56.609          | 26.5              | 40.0              | -13.5              | 360        | 1.17      | Vertical   |
| 145.276         | 31.8              | 43.5              | -11.7              | 119        | 1.00      | Vertical   |
| 281.569         | 28.1              | 46.0              | -17.9              | 95         | 1.00      | Horizontal |
| 571.749         | 38.4              | 46.0              | -7.6               | 32         | 1.78      | Vertical   |
| 618.381         | 41.8              | 46.0              | -4.2               | 94         | 1.17      | Vertical   |

**Table 206 - U-NII 1 - 5200 MHz - 30 MHz to 1 GHz**



**Figure 255 - U-NII 1 - 5200 MHz - 30 MHz to 1 GHz - Horizontal and Vertical**

| Frequency (GHz) | Result (μV/m) |         | Limit (μV/m) |         | Margin (μV/m) |         |
|-----------------|---------------|---------|--------------|---------|---------------|---------|
|                 | Peak          | Average | Peak         | Average | Peak          | Average |
| 5.1207          | 868.96        | 312.97  | 5000.00      | 500.00  | 4131.04       | 187.03  |

**Table 207 - U-NII 1 - 5200 MHz - 1 GHz to 40 GHz**

No other emissions were detected within 6 dB of the limit.