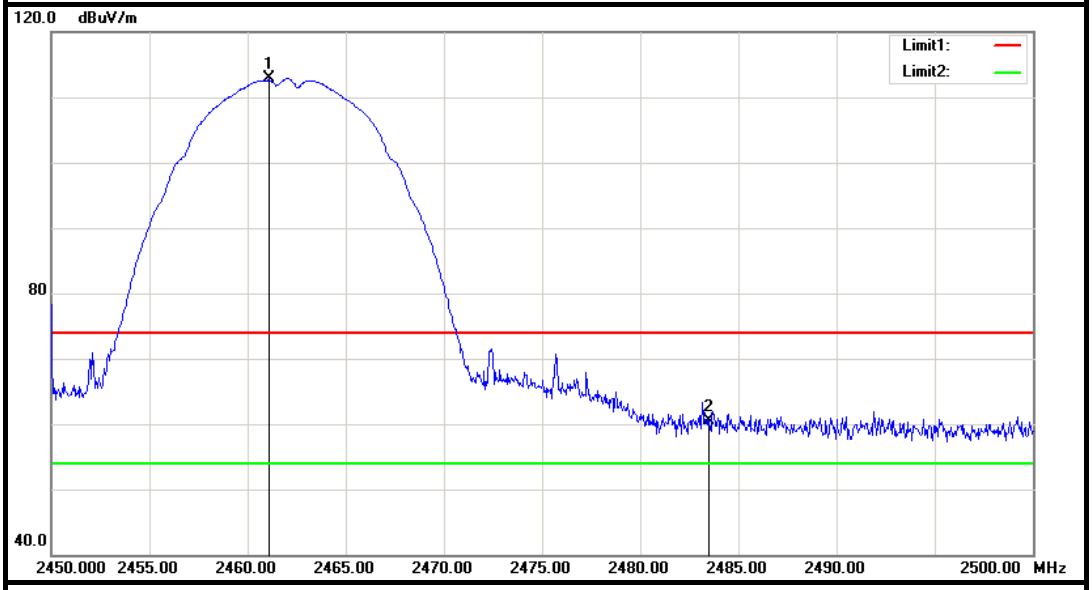
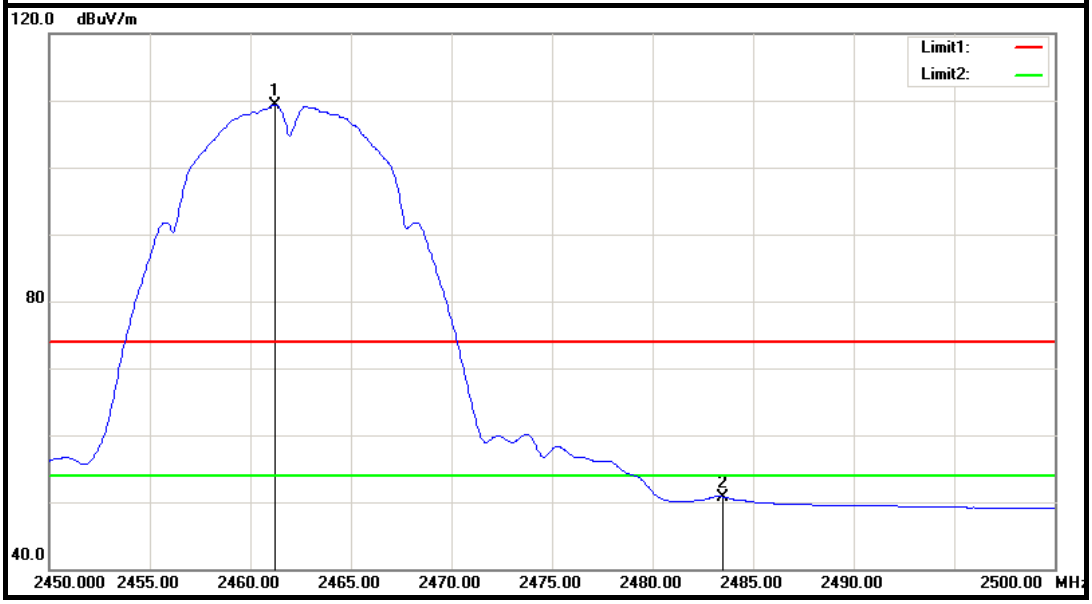
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2461.100 | 115.44 | -2.47 | 112.97 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 62.88 | -2.35 | 60.53 | 74.00 | -13.47 | Peak | Vertical |
| 1 | 2461.200 | 111.82 | -2.47 | 109.35 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 53.12 | -2.35 | 50.77 | 54.00 | -3.23 | Average | Vertical |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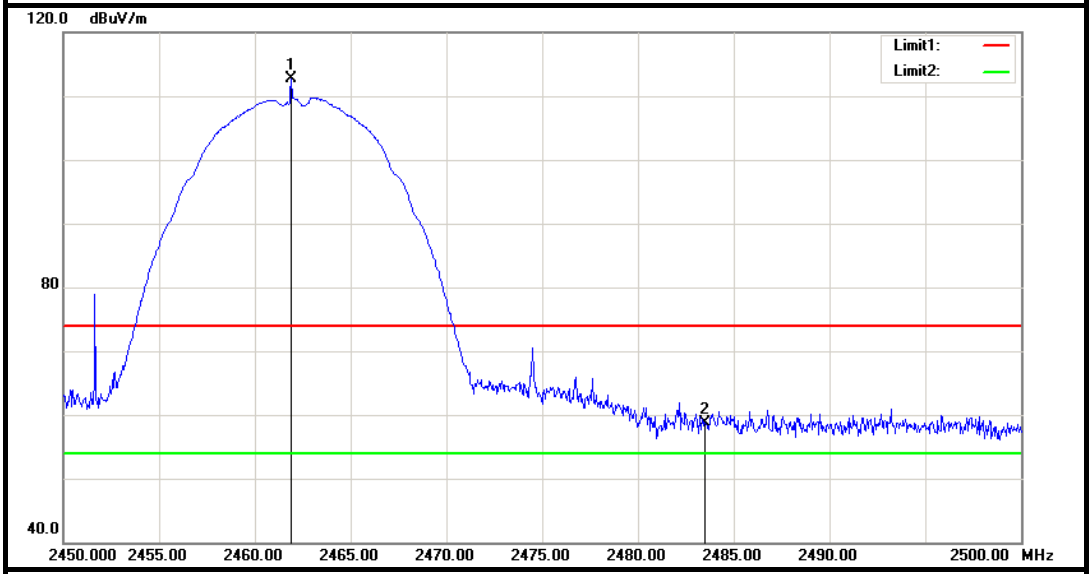
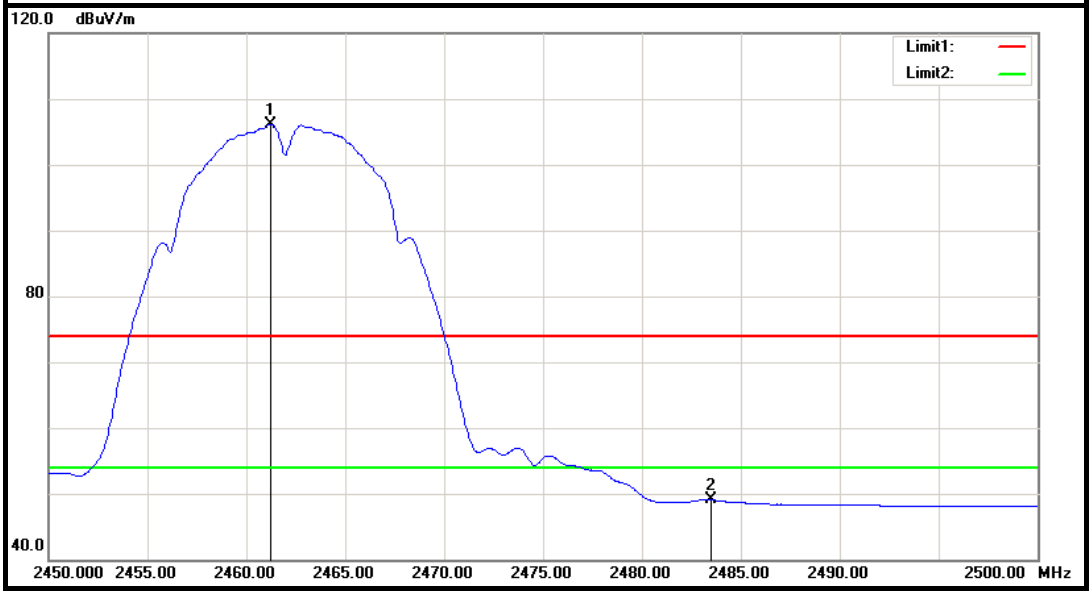
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2461.900 | 115.23 | -2.47 | 112.76 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 61.02 | -2.35 | 58.67 | 74.00 | -15.33 | Peak | Horizontal |
| 1 | 2461.250 | 108.59 | -2.47 | 106.12 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 51.48 | -2.35 | 49.13 | 54.00 | -4.87 | Average | Horizontal |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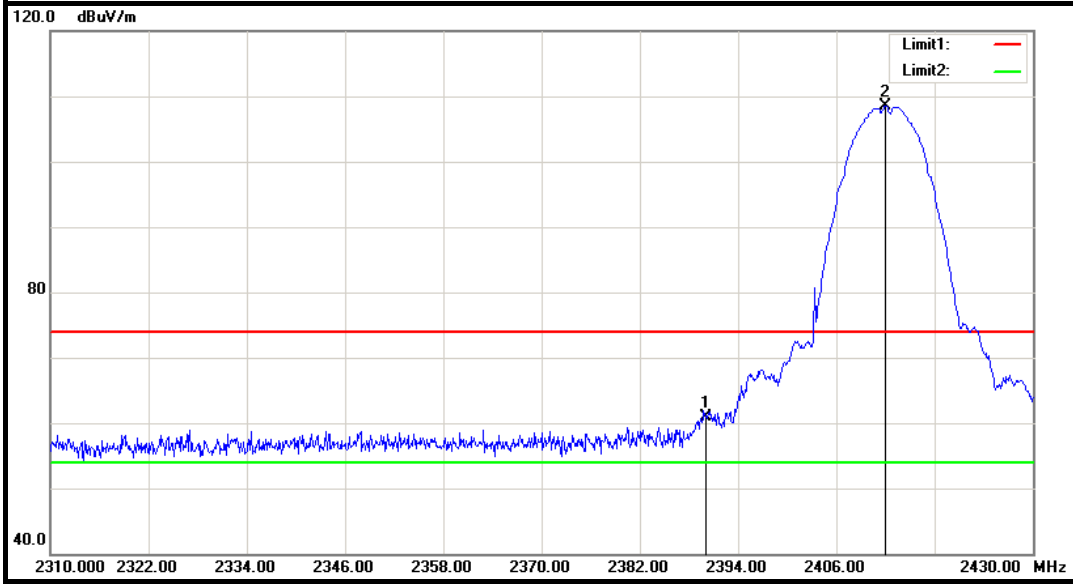
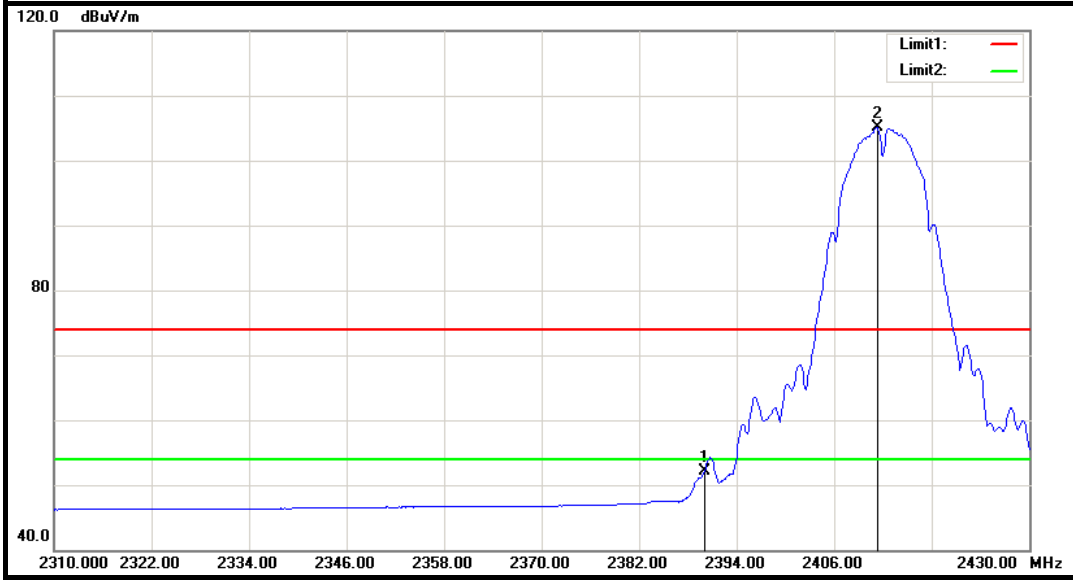
**IEEE 802.11b mode (antenna 3)**
**Band Edges (CH Low)**

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 63.80 | -2.86 | 60.94 | 74.00 | -13.06 | Peak | Vertical |
| 2 | 2412.000 | 111.23 | -2.74 | 108.49 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 55.02 | -2.86 | 52.16 | 54.00 | -1.84 | Average | Vertical |
| 2 | 2411.280 | 107.78 | -2.75 | 105.03 | --- | --- | Average | Vertical |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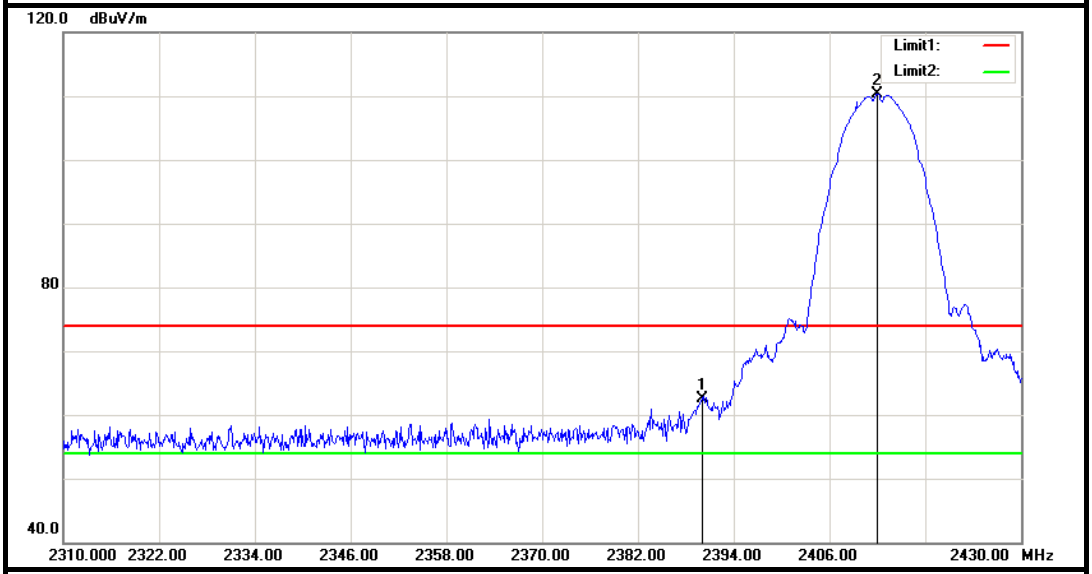
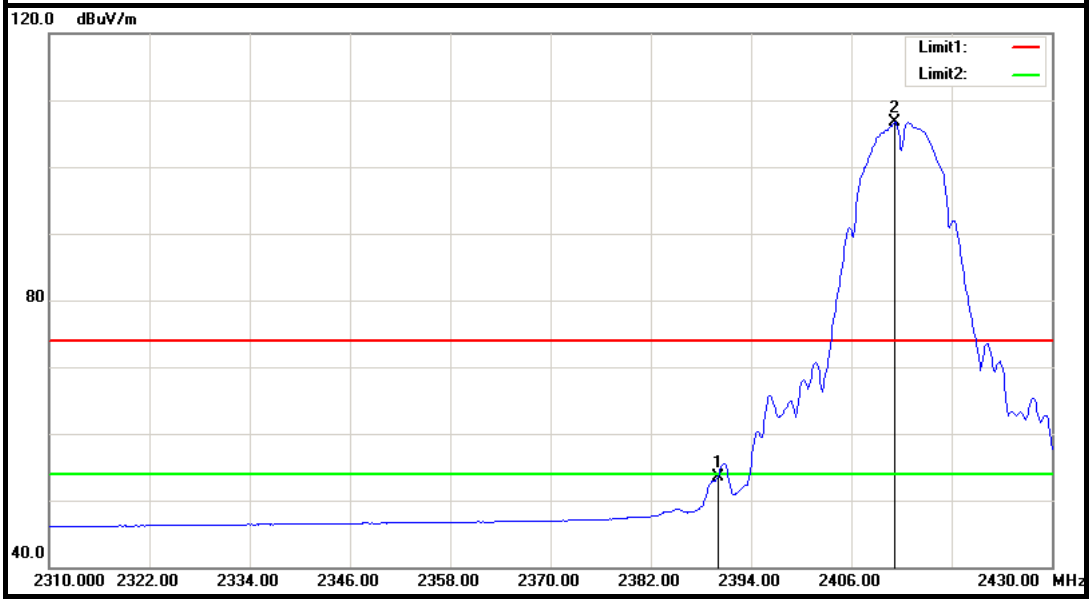
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 65.43 | -2.86 | 62.57 | 74.00 | -11.43 | Peak | Horizontal |
| 2 | 2412.000 | 113.12 | -2.74 | 110.38 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 56.44 | -2.86 | 53.58 | 54.00 | -0.42 | Average | Horizontal |
| 2 | 2411.160 | 109.46 | -2.75 | 106.71 | --- | --- | Average | Horizontal |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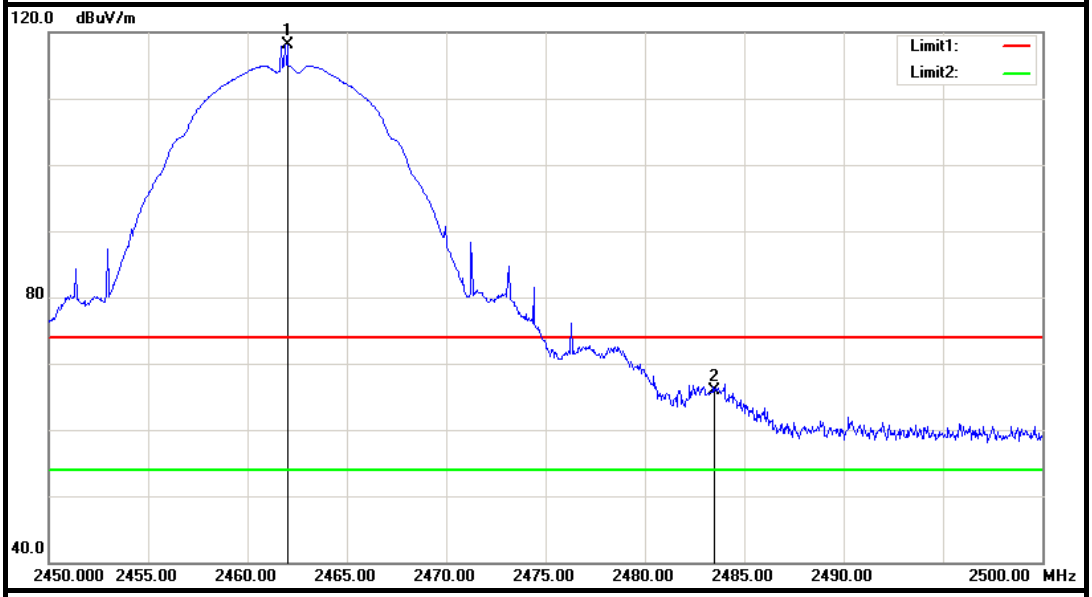
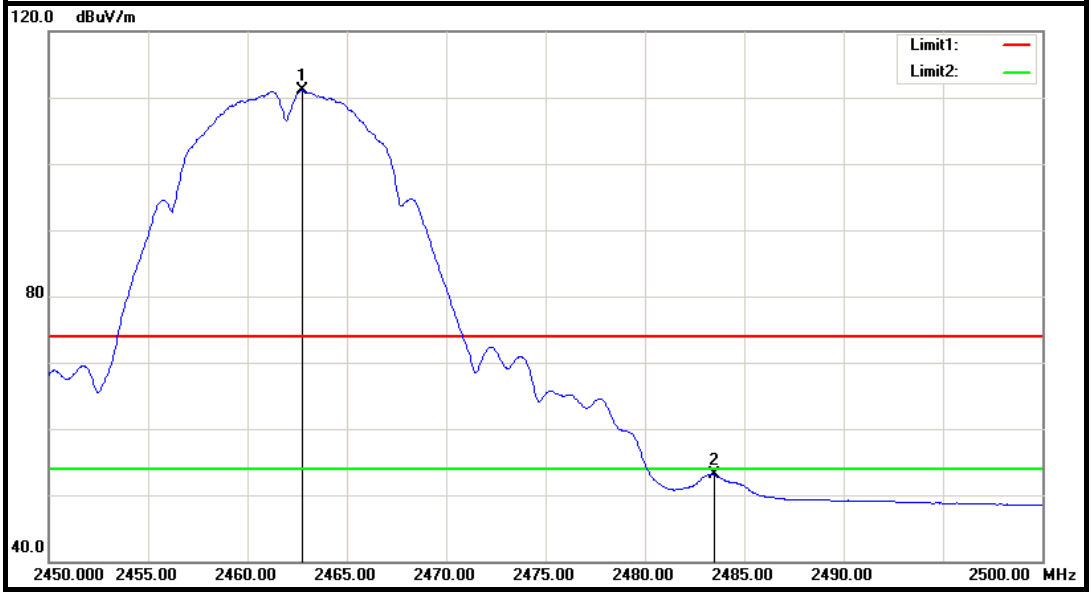
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2462.000 | 120.52 | -2.47 | 118.05 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 68.23 | -2.35 | 65.88 | 74.00 | -8.12 | Peak | Vertical |
| 1 | 2462.750 | 113.51 | -2.46 | 111.05 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 55.39 | -2.35 | 53.04 | 54.00 | -0.96 | Average | Vertical |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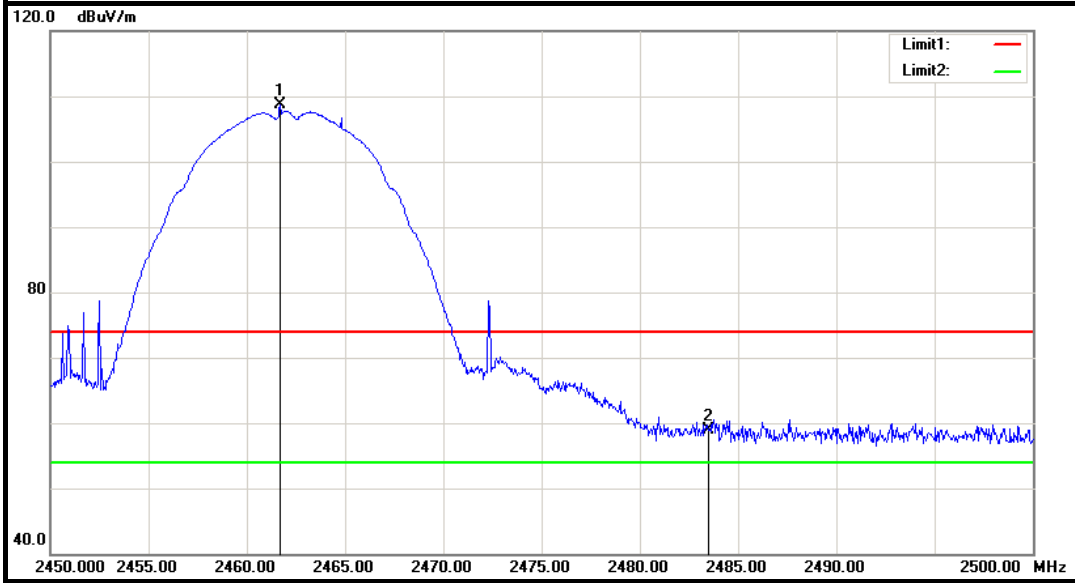
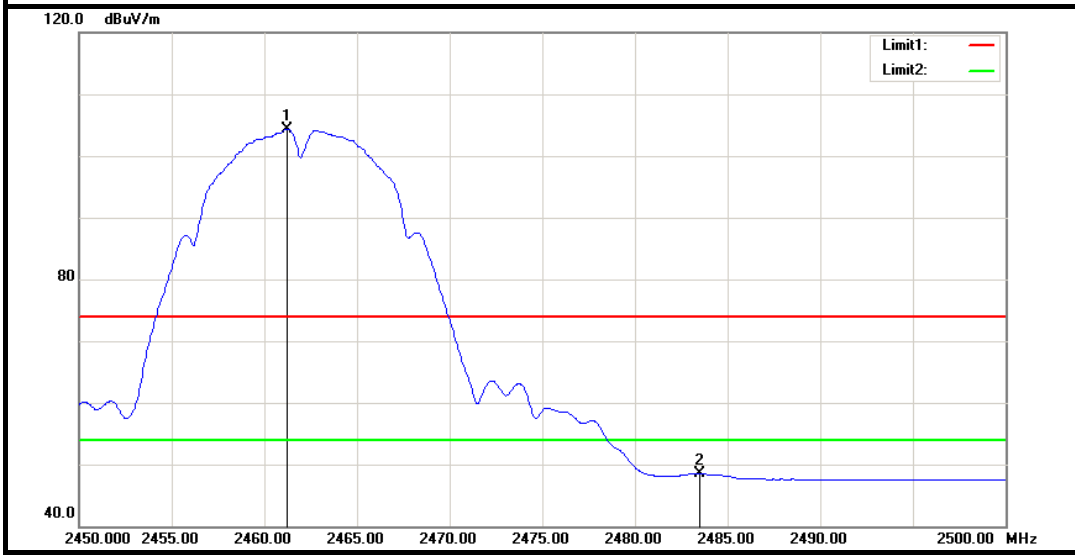
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2461.700 | 111.26 | -2.47 | 108.79 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 61.24 | -2.35 | 58.89 | 74.00 | -15.11 | Peak | Horizontal |
| 1 | 2461.200 | 106.80 | -2.47 | 104.33 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 50.90 | -2.35 | 48.55 | 54.00 | -5.45 | Average | Horizontal |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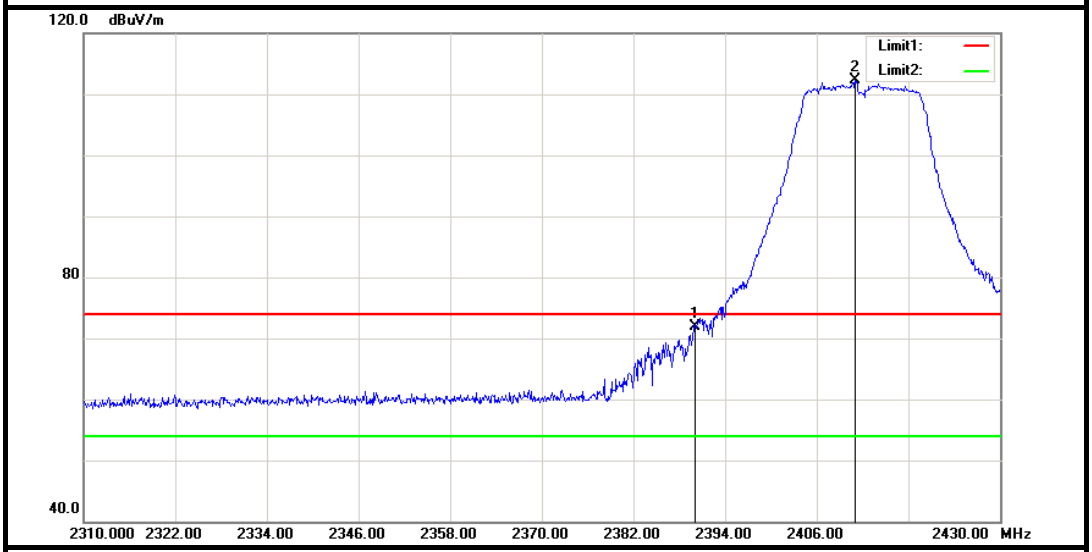
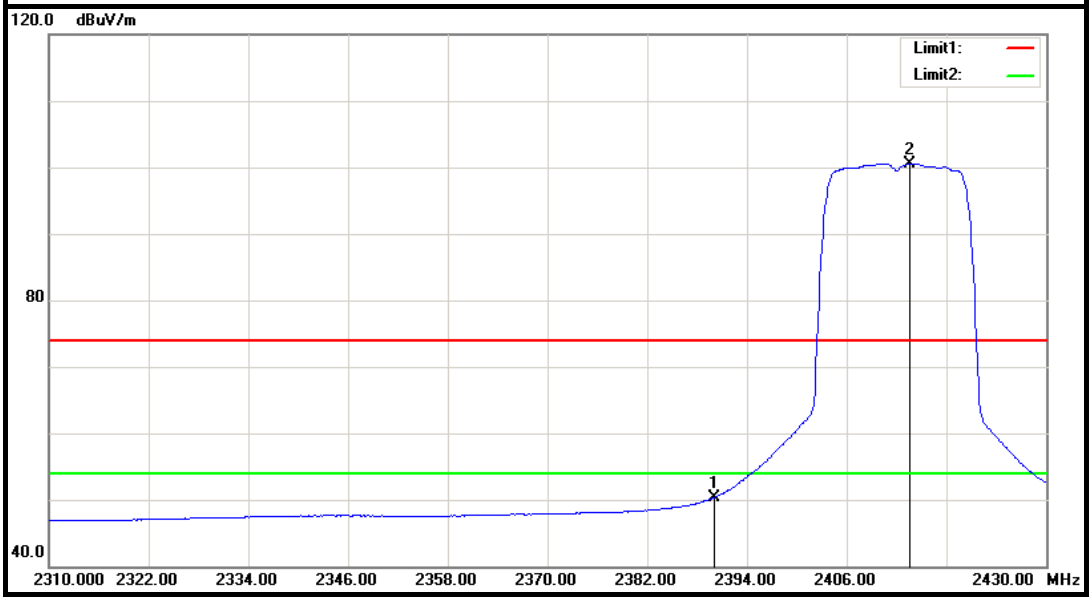
**IEEE 802.11g mode (antenna 0)**
**Band Edges (CH Low)**

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 74.81 | -2.86 | 71.95 | 74.00 | -2.05 | Peak | Vertical |
| 2 | 2411.040 | 114.98 | -2.75 | 112.23 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 53.20 | -2.86 | 50.34 | 54.00 | -3.66 | Average | Vertical |
| 2 | 2413.560 | 103.26 | -2.73 | 100.53 | --- | --- | Average | Vertical |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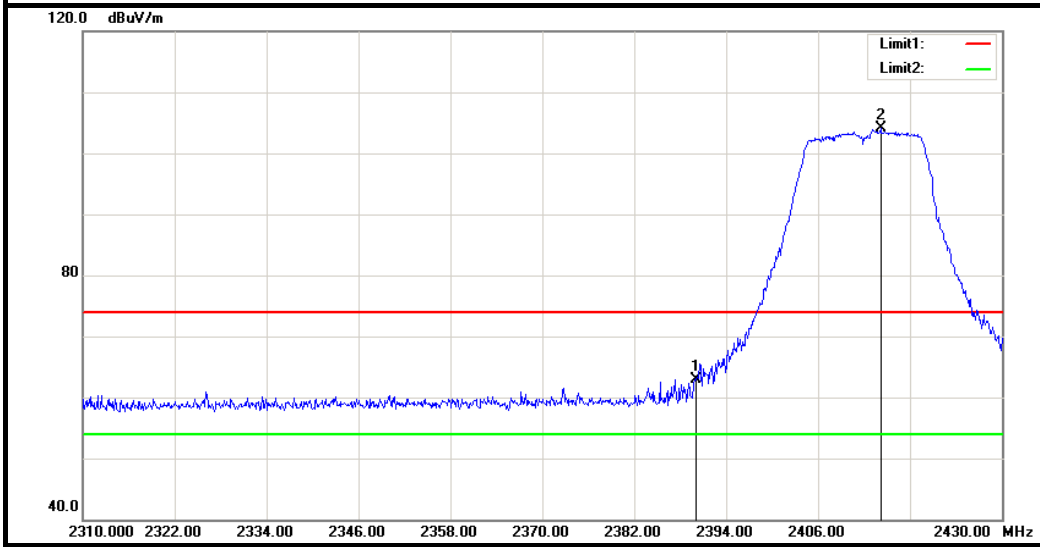
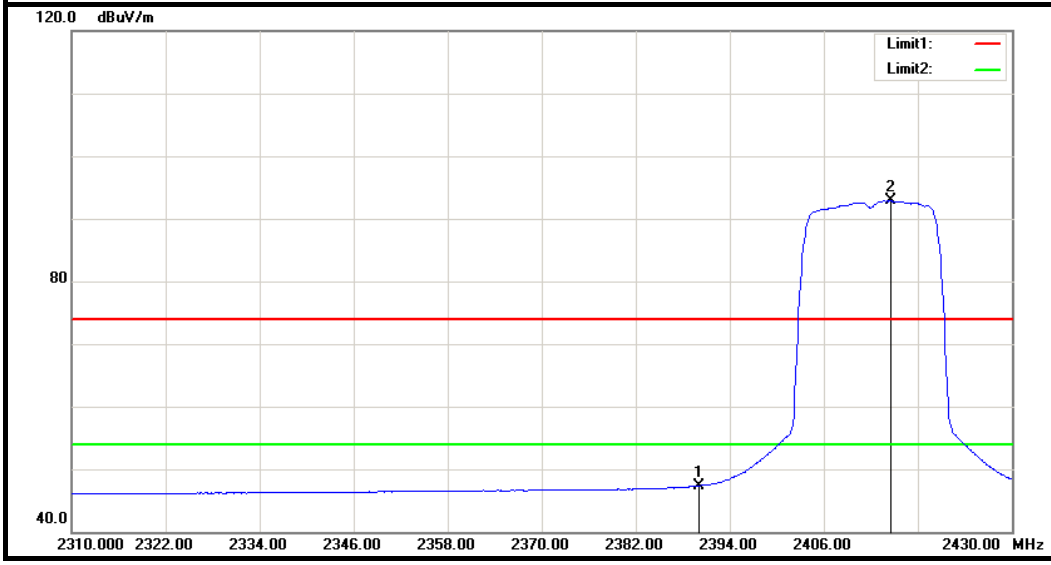
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 65.68 | -2.86 | 62.82 | 74.00 | -11.18 | Peak | Horizontal |
| 2 | 2414.160 | 106.84 | -2.73 | 104.11 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 50.22 | -2.86 | 47.36 | 54.00 | -6.64 | Average | Horizontal |
| 2 | 2414.520 | 95.57 | -2.73 | 92.84 | --- | --- | Average | Horizontal |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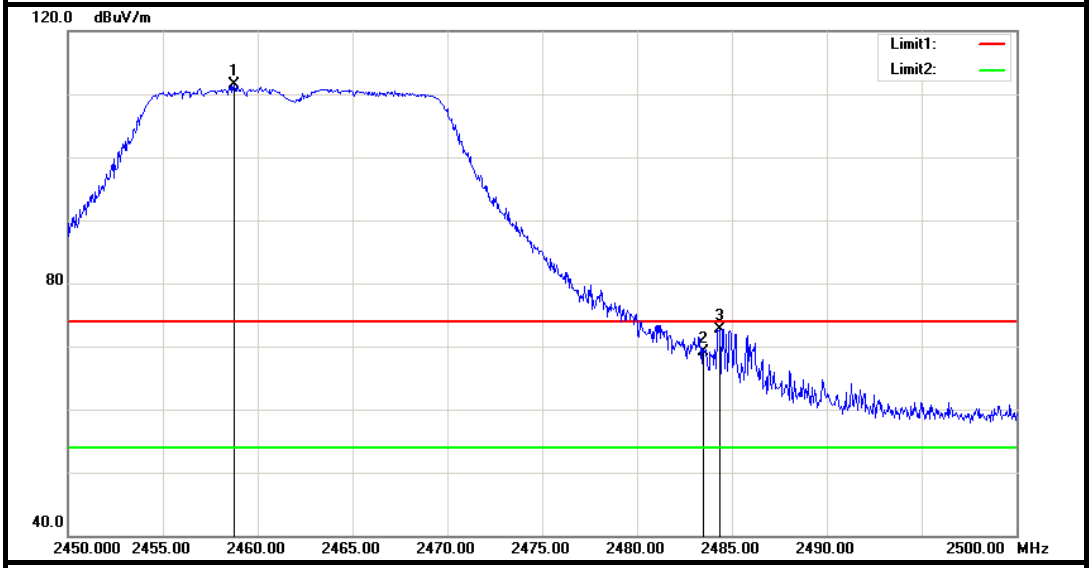
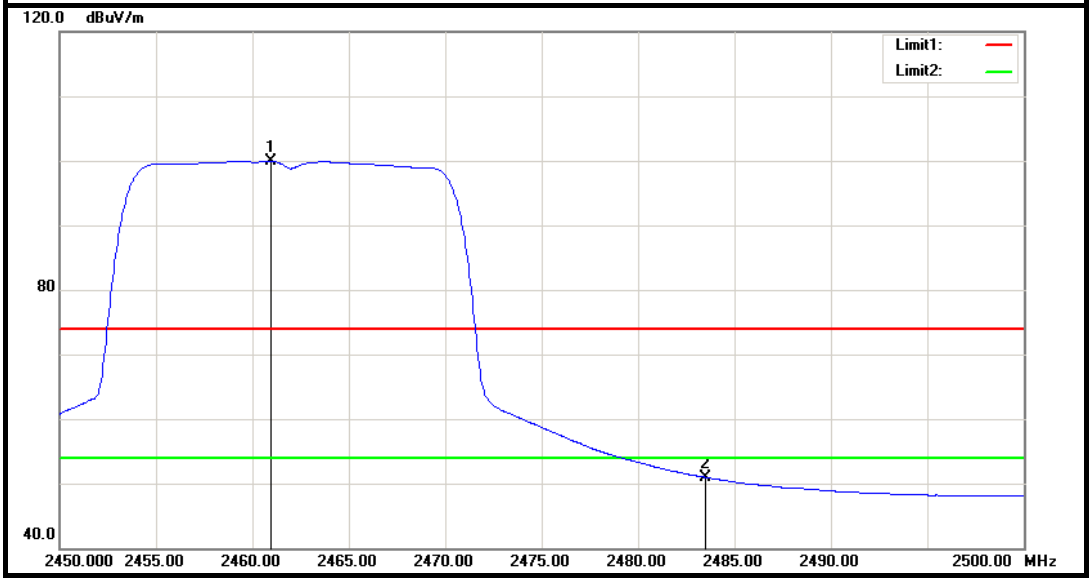
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2458.750 | 113.90 | -2.49 | 111.41 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 71.41 | -2.35 | 69.06 | 74.00 | -4.94 | Peak | Vertical |
| 3 | 2484.350 | 75.12 | -2.35 | 72.77 | 74.00 | -1.23 | Peak | Vertical |
| 1 | 2460.950 | 102.47 | -2.47 | 100.00 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 53.33 | -2.35 | 50.98 | 54.00 | -3.02 | Average | Vertical |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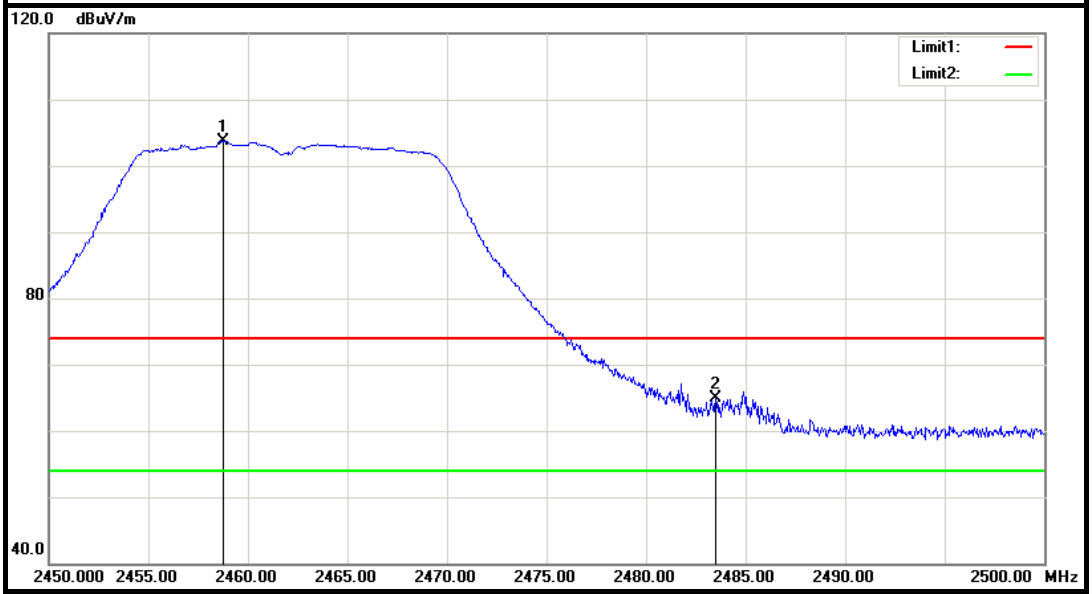
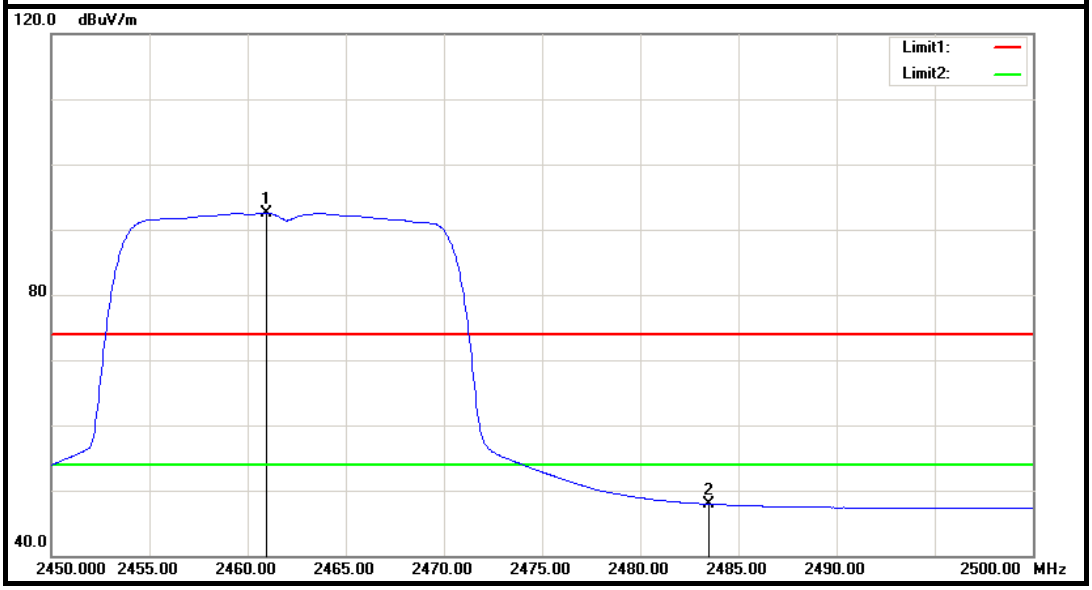
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2458.750 | 106.26 | -2.49 | 103.77 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 67.23 | -2.35 | 64.88 | 74.00 | -9.12 | Peak | Horizontal |
| 1 | 2460.950 | 95.06 | -2.47 | 92.59 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 50.27 | -2.35 | 47.92 | 54.00 | -6.08 | Average | Horizontal |

## IEEE 802.11g mode (antenna 1)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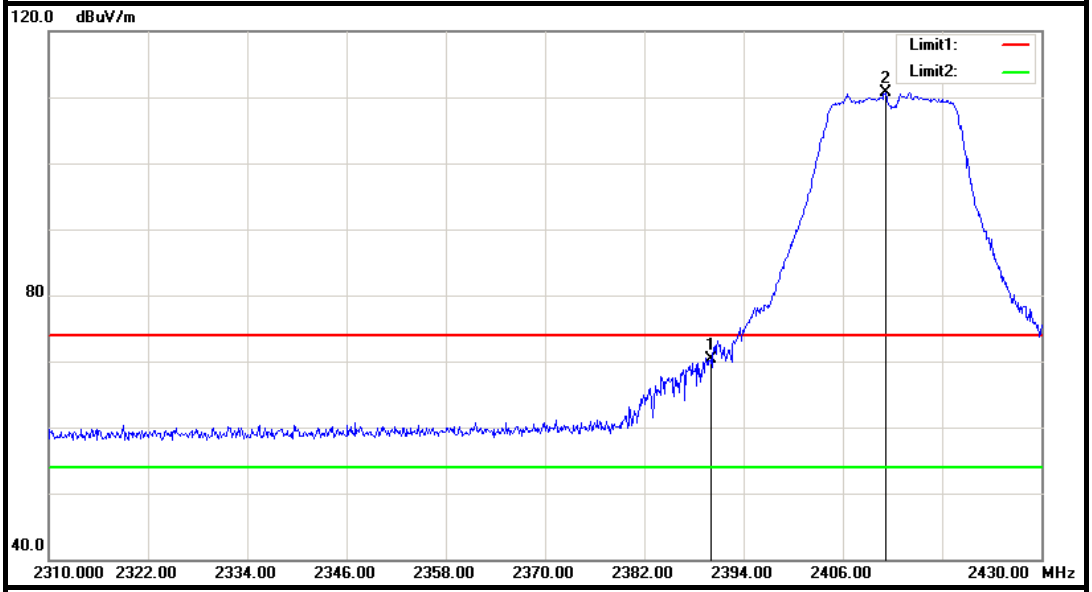
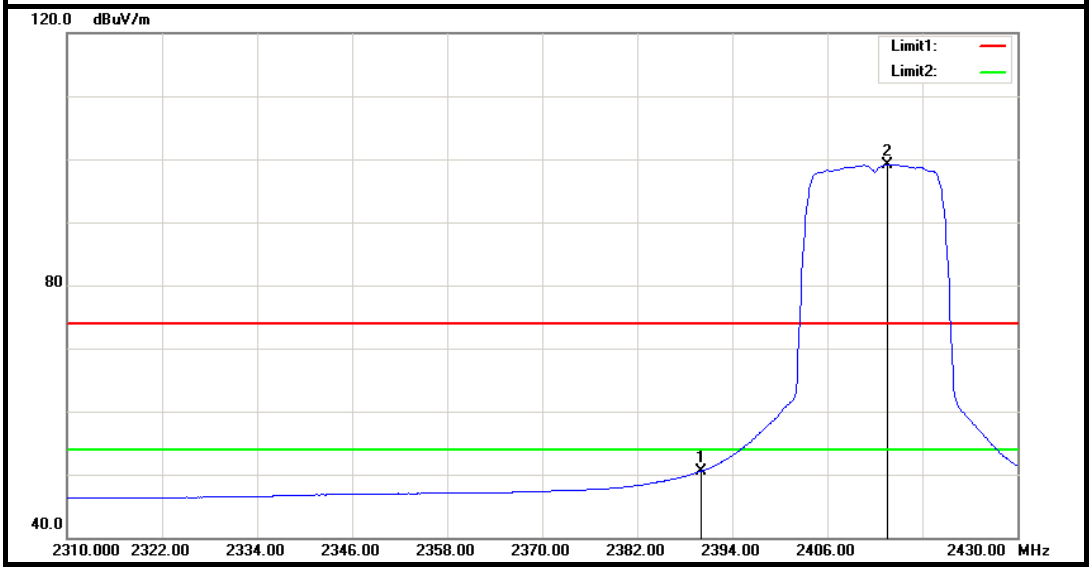
## Band Edges (CH Low)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 73.23 | -2.86 | 70.37 | 74.00 | -3.63 | Peak | Vertical |
| 2 | 2411.160 | 113.52 | -2.75 | 110.77 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 53.41 | -2.86 | 50.55 | 54.00 | -3.45 | Average | Vertical |
| 2 | 2413.560 | 101.87 | -2.73 | 99.14 | --- | --- | Average | Vertical |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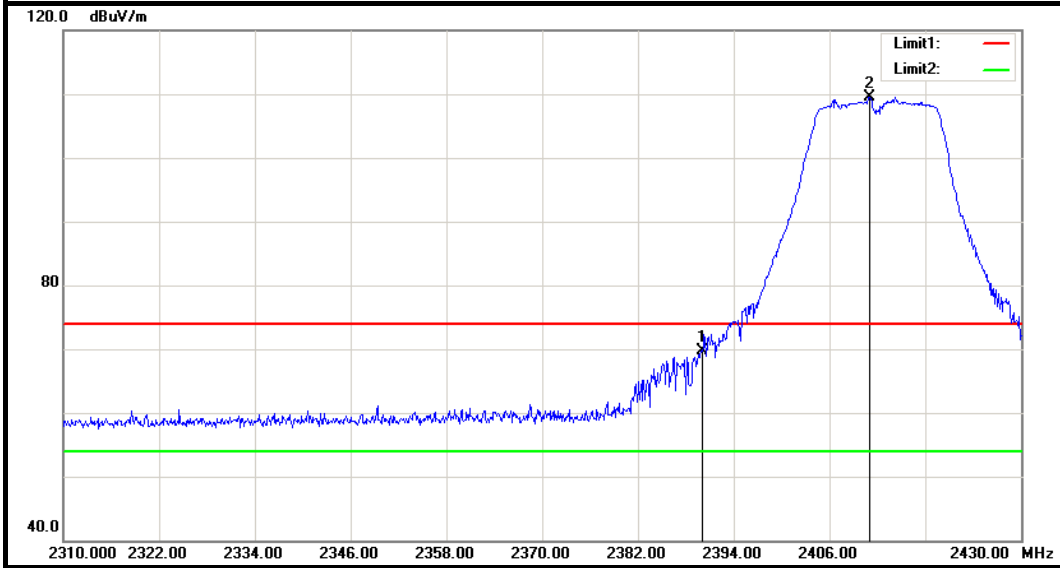
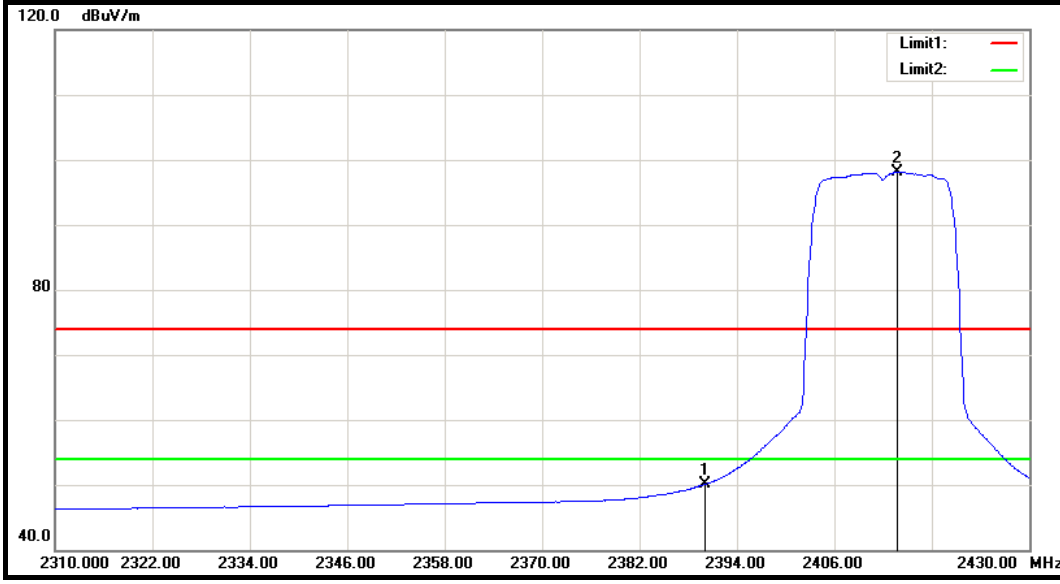
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 72.59 | -2.86 | 69.73 | 74.00 | -4.27 | Peak | Horizontal |
| 2 | 2411.040 | 112.24 | -2.75 | 109.49 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 52.93 | -2.86 | 50.07 | 54.00 | -3.93 | Average | Horizontal |
| 2 | 2413.680 | 100.80 | -2.73 | 98.07 | --- | --- | Average | Horizontal |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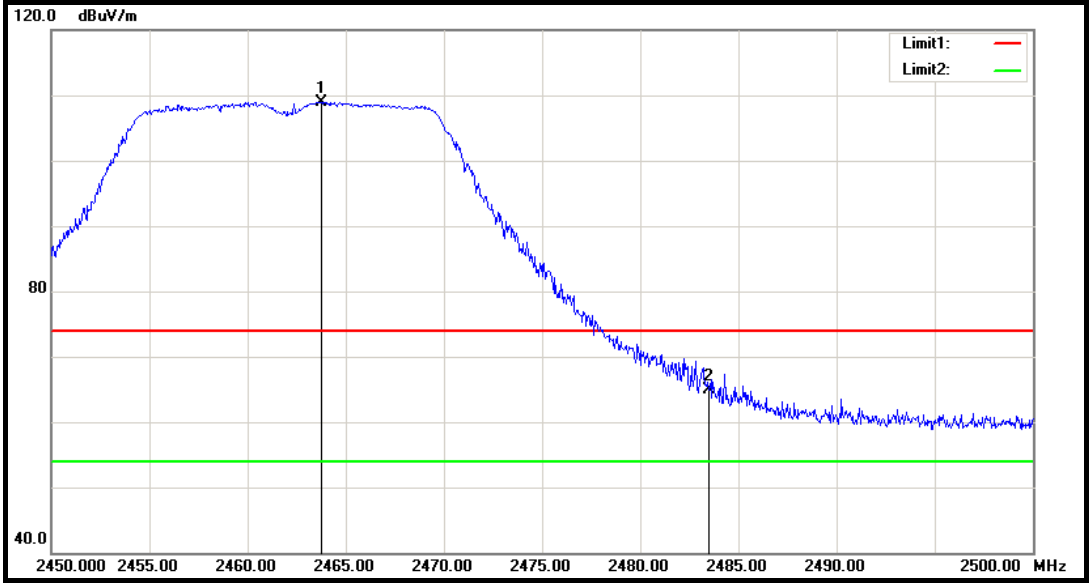
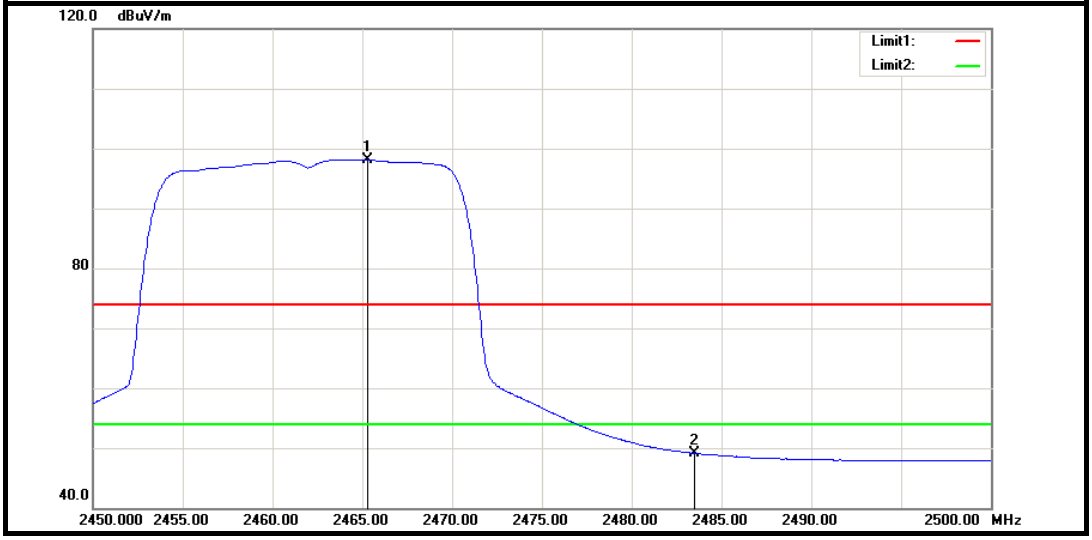
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2463.750 | 111.36 | -2.46 | 108.90 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 67.24 | -2.35 | 64.89 | 74.00 | -9.11 | Peak | Vertical |
| 1 | 2465.300 | 100.57 | -2.45 | 98.12 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 51.45 | -2.35 | 49.10 | 54.00 | -4.90 | Average | Vertical |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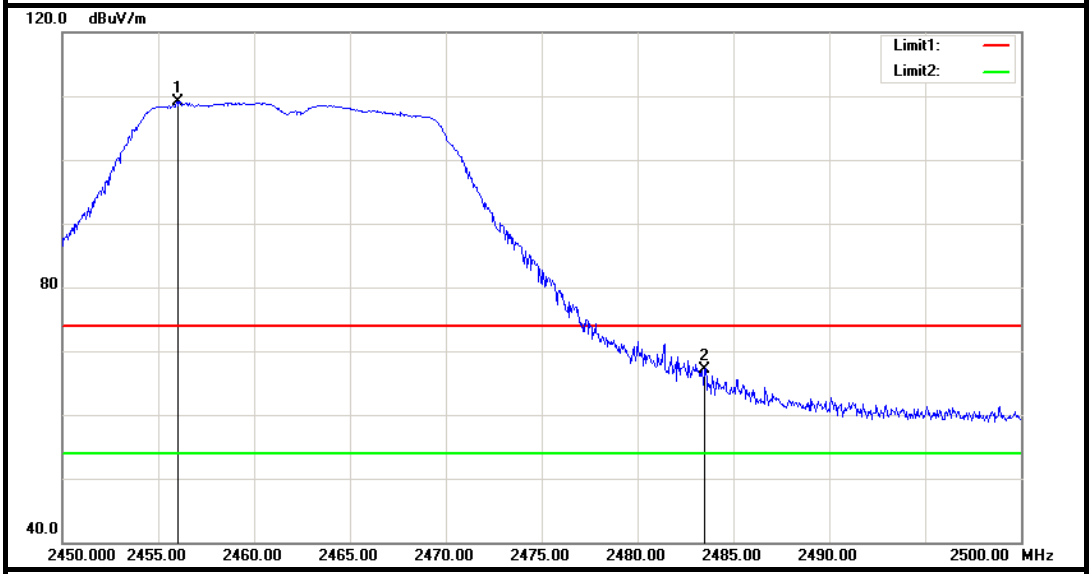
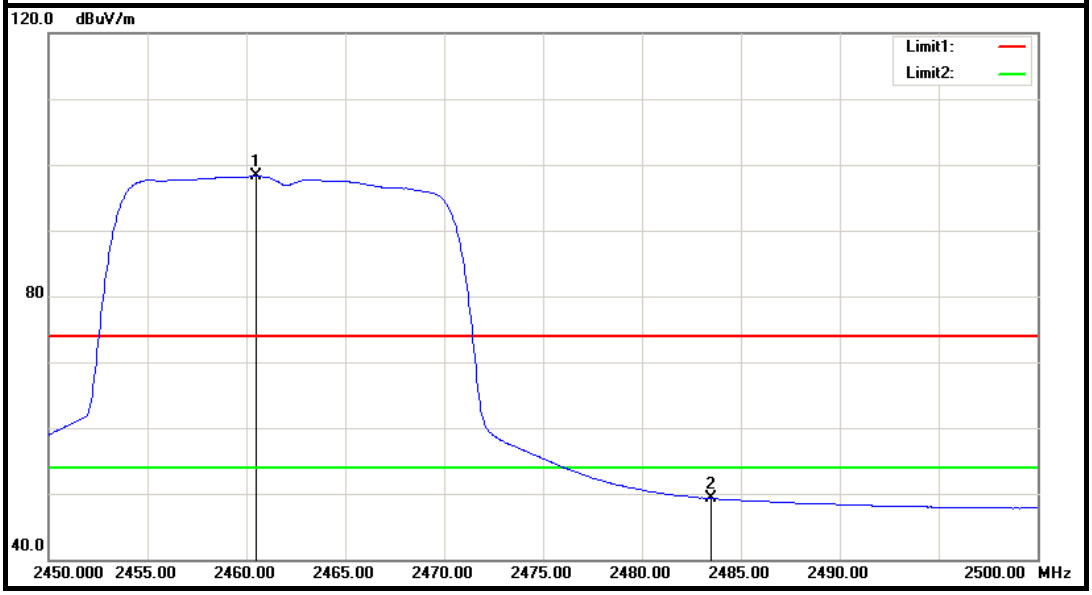
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2456.000 | 111.58 | -2.50 | 109.08 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 69.40 | -2.35 | 67.05 | 74.00 | -6.95 | Peak | Horizontal |
| 1 | 2460.500 | 100.76 | -2.48 | 98.28 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 51.67 | -2.35 | 49.32 | 54.00 | -4.68 | Average | Horizontal |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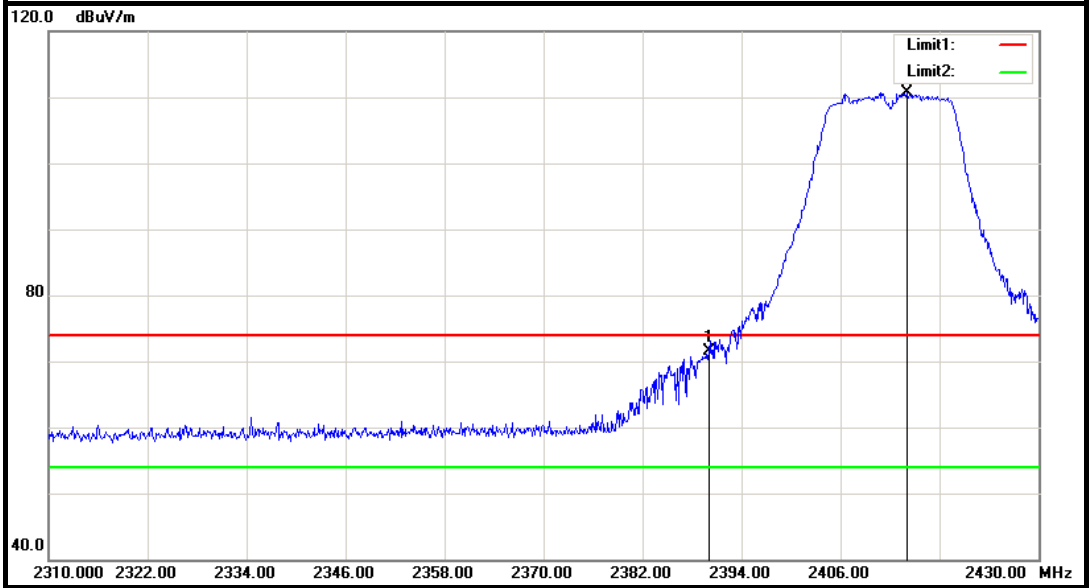
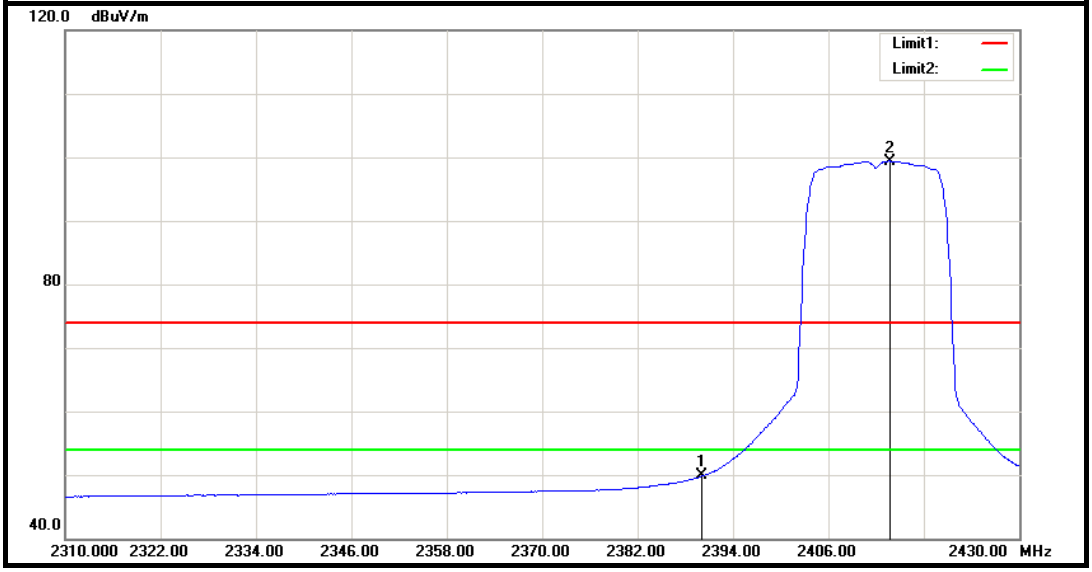
## IEEE 802.11g mode (antenna 2)
## Band Edges (CH Low)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 74.40 | -2.86 | 71.54 | 74.00 | -2.46 | Peak | Vertical |
| 2 | 2414.040 | 113.42 | -2.73 | 110.69 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 52.67 | -2.86 | 49.81 | 54.00 | -4.19 | Average | Vertical |
| 2 | 2413.680 | 102.13 | -2.73 | 99.40 | --- | --- | Average | Vertical |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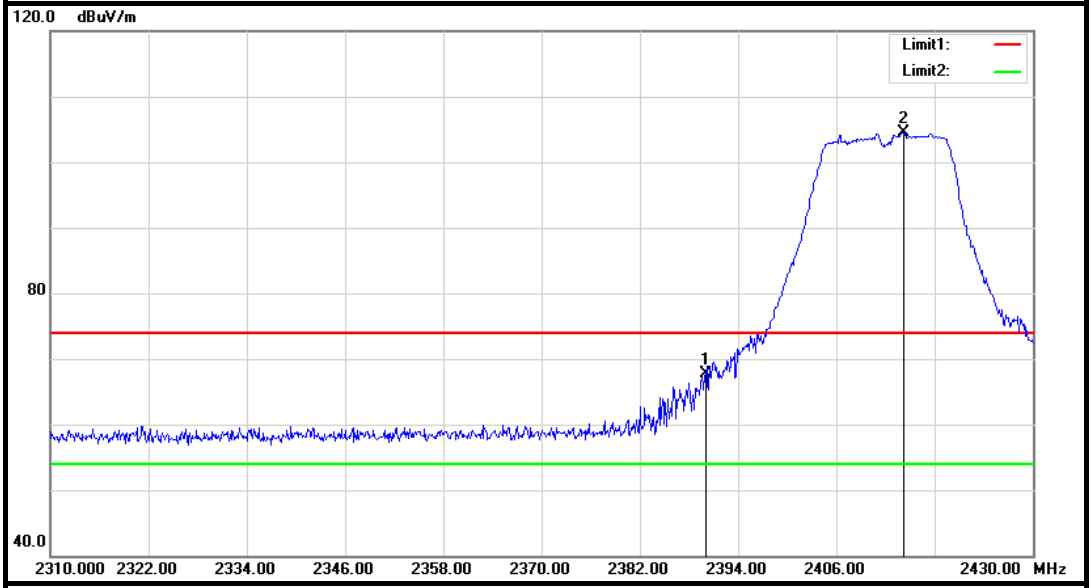
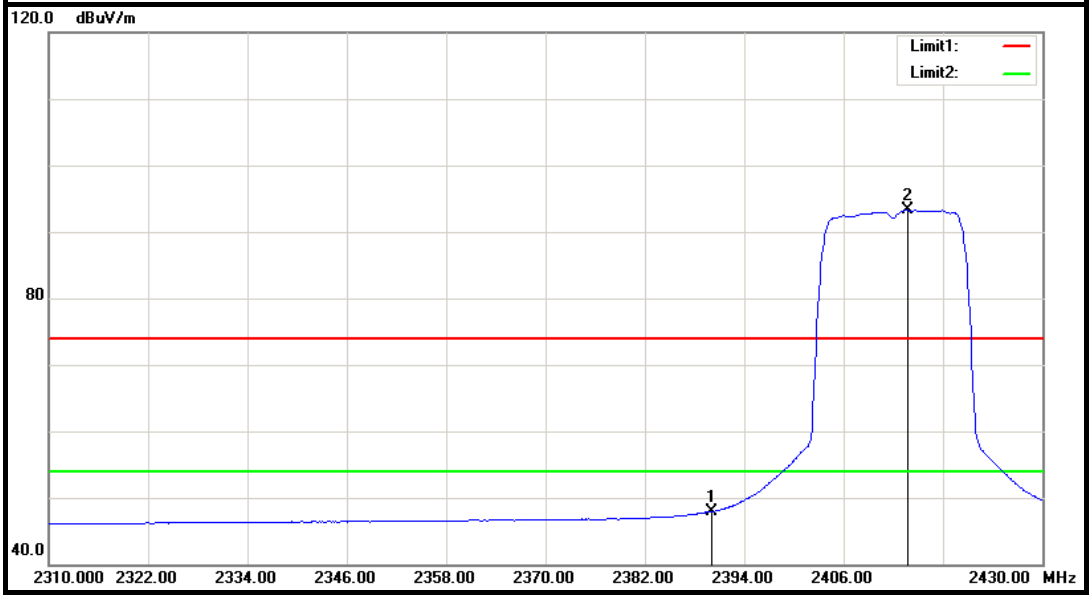
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 70.53 | -2.86 | 67.67 | 74.00 | -6.33 | Peak | Horizontal |
| 2 | 2414.160 | 107.31 | -2.73 | 104.58 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 50.75 | -2.86 | 47.89 | 54.00 | -6.11 | Average | Horizontal |
| 2 | 2413.680 | 95.95 | -2.73 | 93.22 | --- | --- | Average | Horizontal |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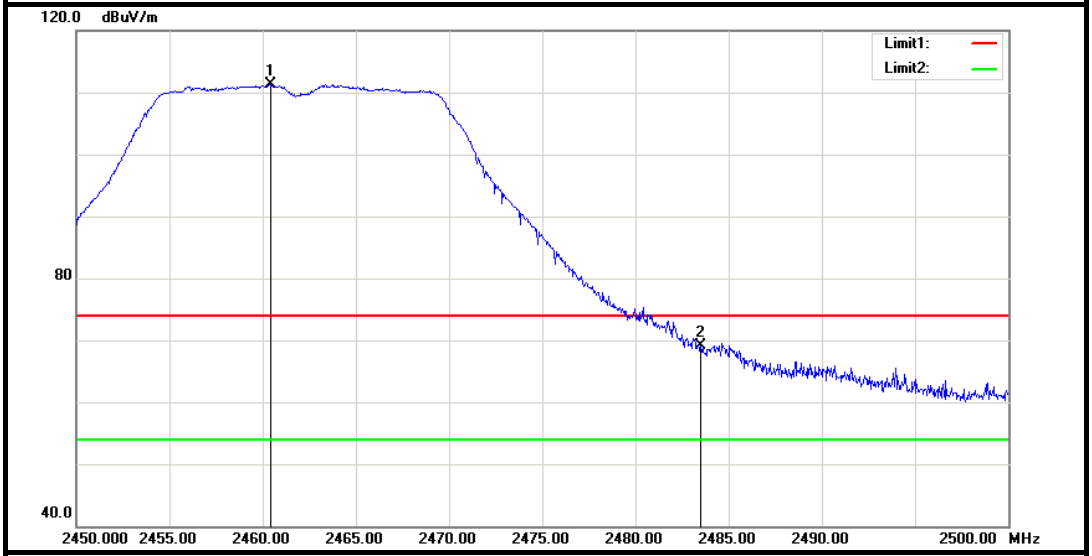
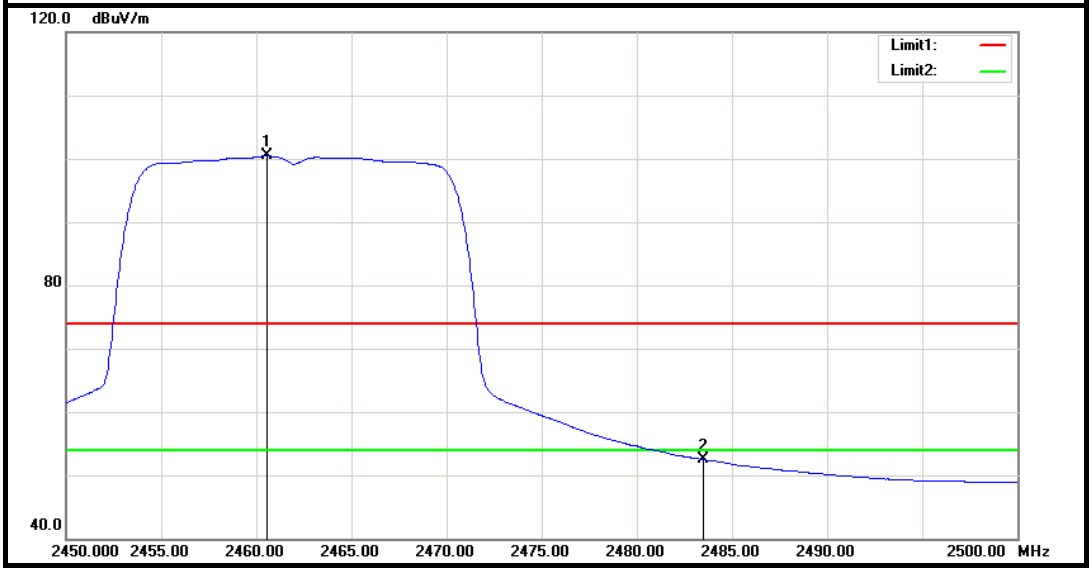
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2460.450 | 113.75 | -2.48 | 111.27 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 71.40 | -2.35 | 69.05 | 74.00 | -4.95 | Peak | Vertical |
| 1 | 2460.550 | 102.92 | -2.48 | 100.44 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 54.85 | -2.35 | 52.50 | 54.00 | -1.50 | Average | Vertical |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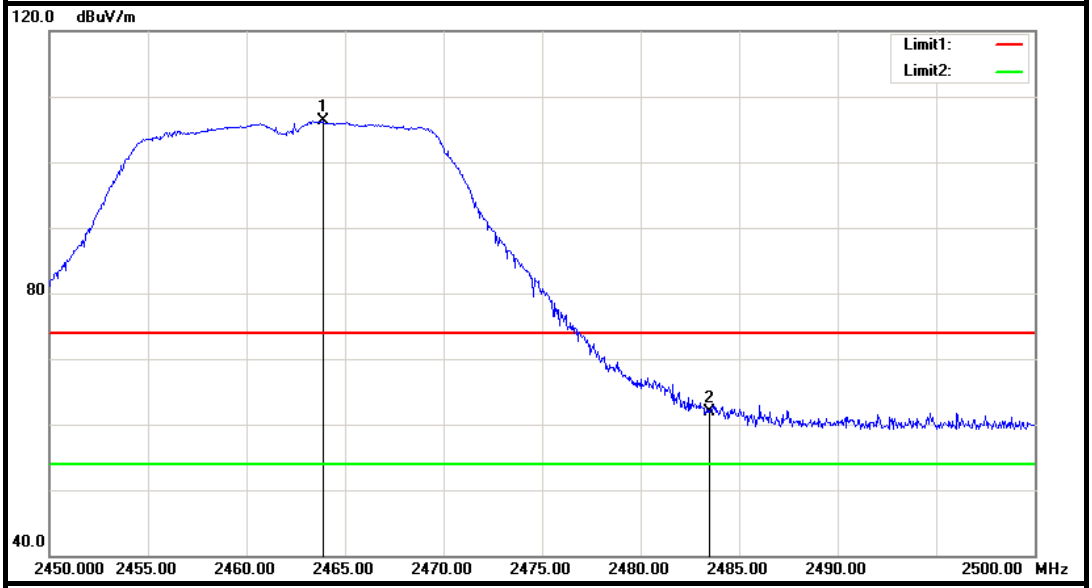
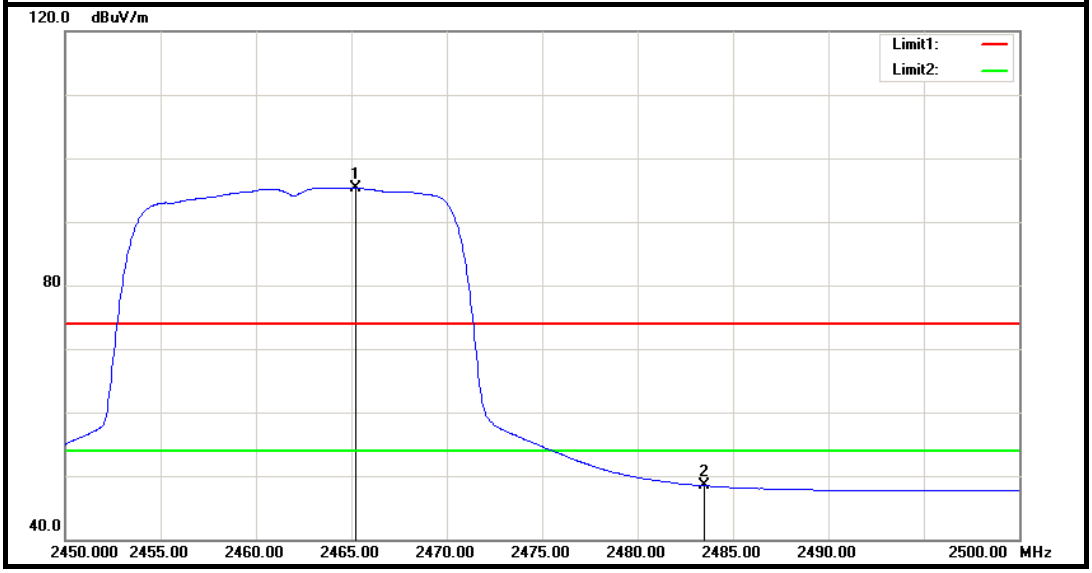
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2463.900 | 108.74 | -2.46 | 106.28 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 64.34 | -2.35 | 61.99 | 74.00 | -12.01 | Peak | Horizontal |
| 1 | 2465.200 | 97.78 | -2.45 | 95.33 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 50.81 | -2.35 | 48.46 | 54.00 | -5.54 | Average | Horizontal |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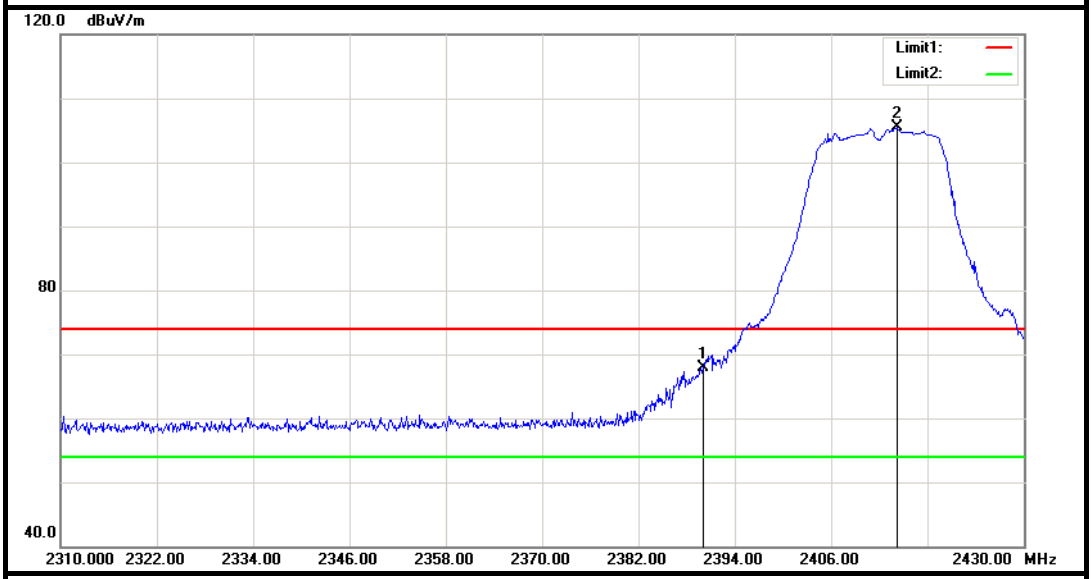
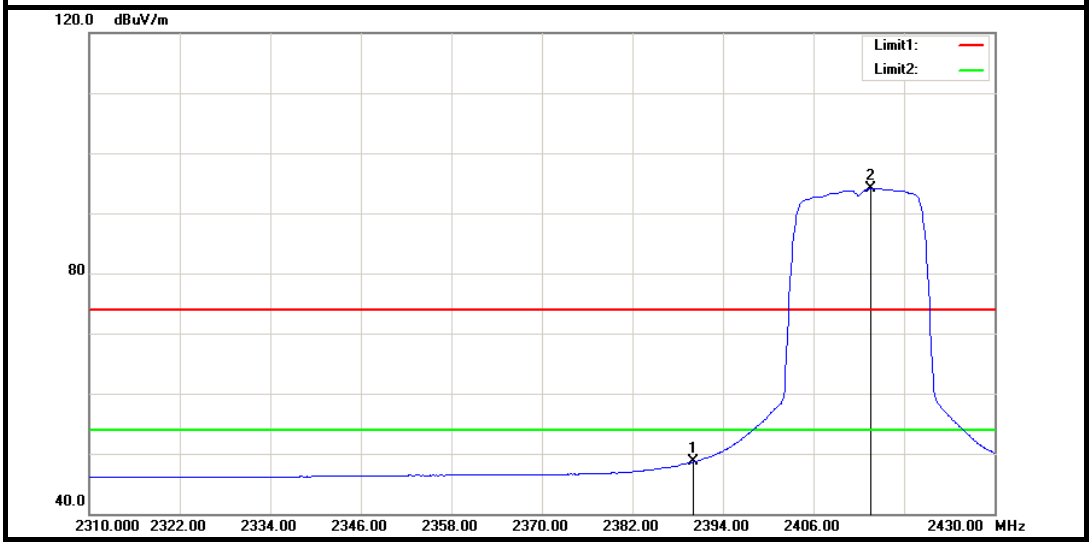
**IEEE 802.11g mode (antenna 3)**
**Band Edges (CH Low)**

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 70.72 | -2.86 | 67.86 | 74.00 | -6.14 | Peak | Vertical |
| 2 | 2414.160 | 108.28 | -2.73 | 105.55 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 51.49 | -2.86 | 48.63 | 54.00 | -5.37 | Average | Vertical |
| 2 | 2413.560 | 96.84 | -2.73 | 94.11 | --- | --- | Average | Vertical |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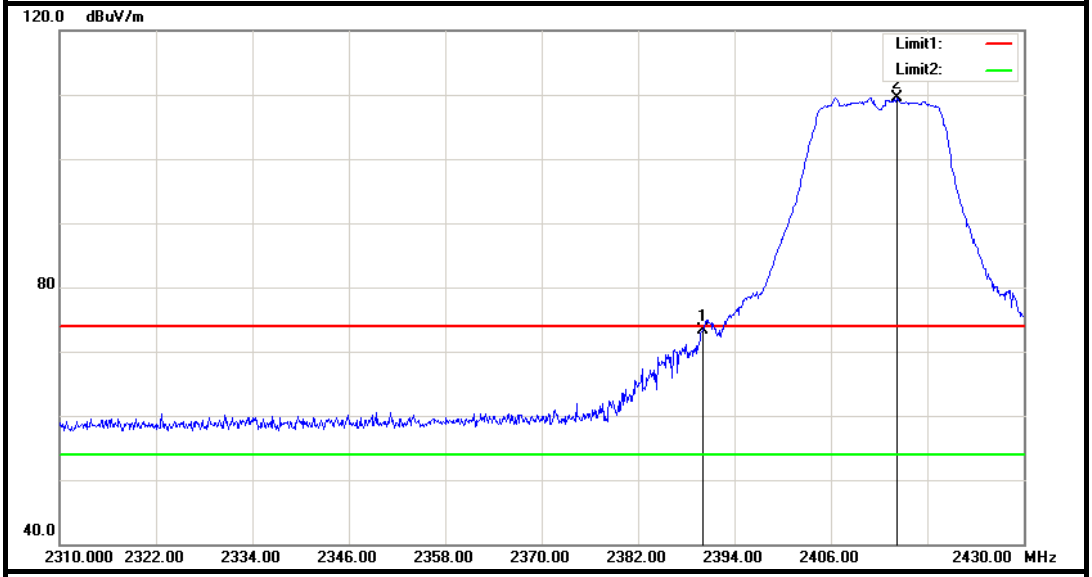
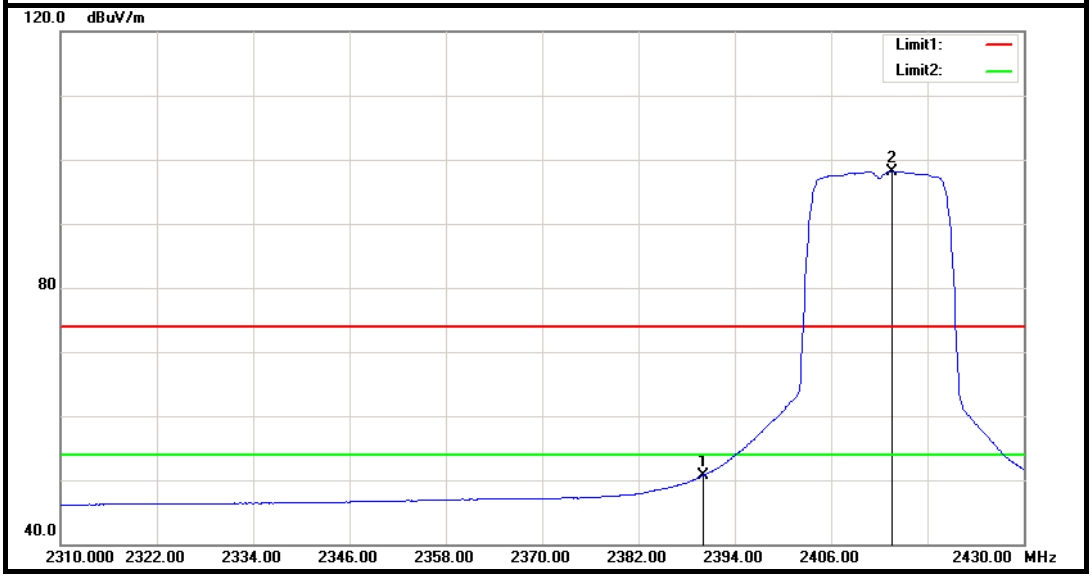
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 76.16 | -2.86 | 73.30 | 74.00 | -0.70 | Peak | Horizontal |
| 2 | 2414.160 | 112.32 | -2.73 | 109.59 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 53.52 | -2.86 | 50.66 | 54.00 | -3.34 | Average | Horizontal |
| 2 | 2413.560 | 100.88 | -2.73 | 98.15 | --- | --- | Average | Horizontal |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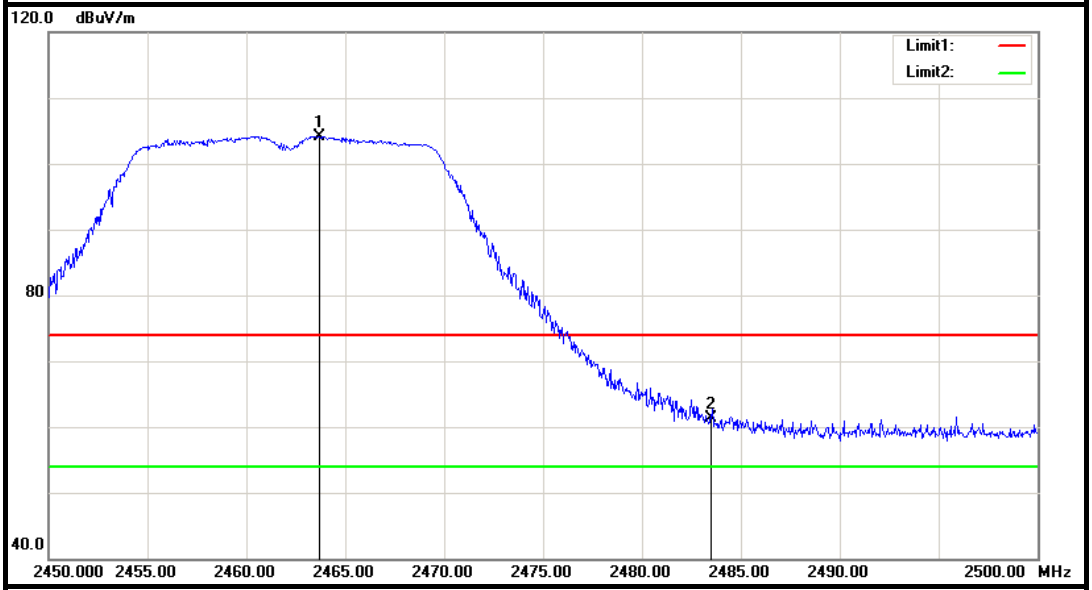
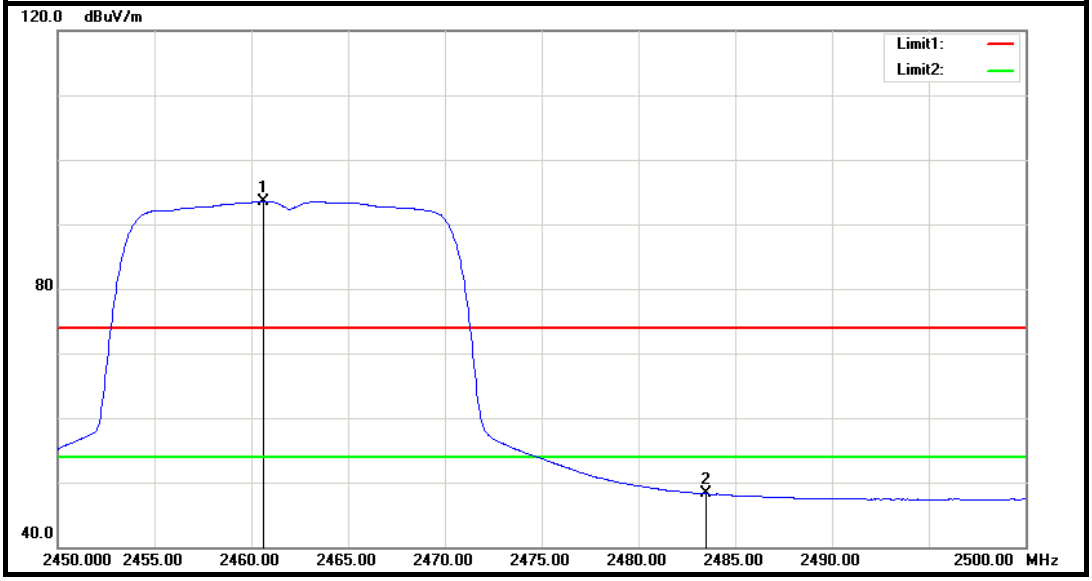
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2463.700 | 106.60 | -2.46 | 104.14 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 63.62 | -2.35 | 61.27 | 74.00 | -12.73 | Peak | Vertical |
| 1 | 2460.600 | 96.08 | -2.48 | 93.60 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 50.63 | -2.35 | 48.28 | 54.00 | -5.72 | Average | Vertical |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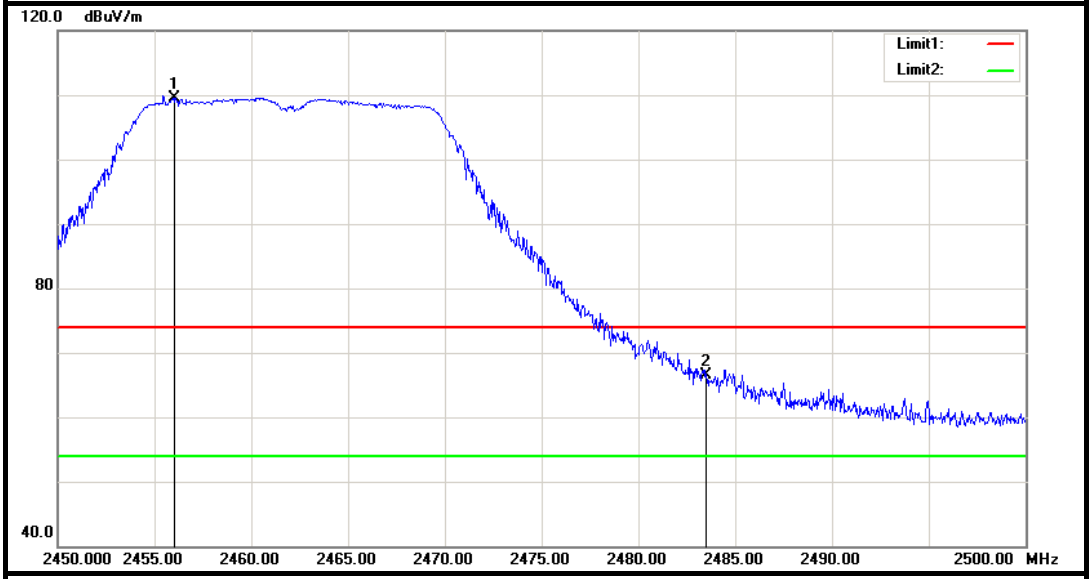
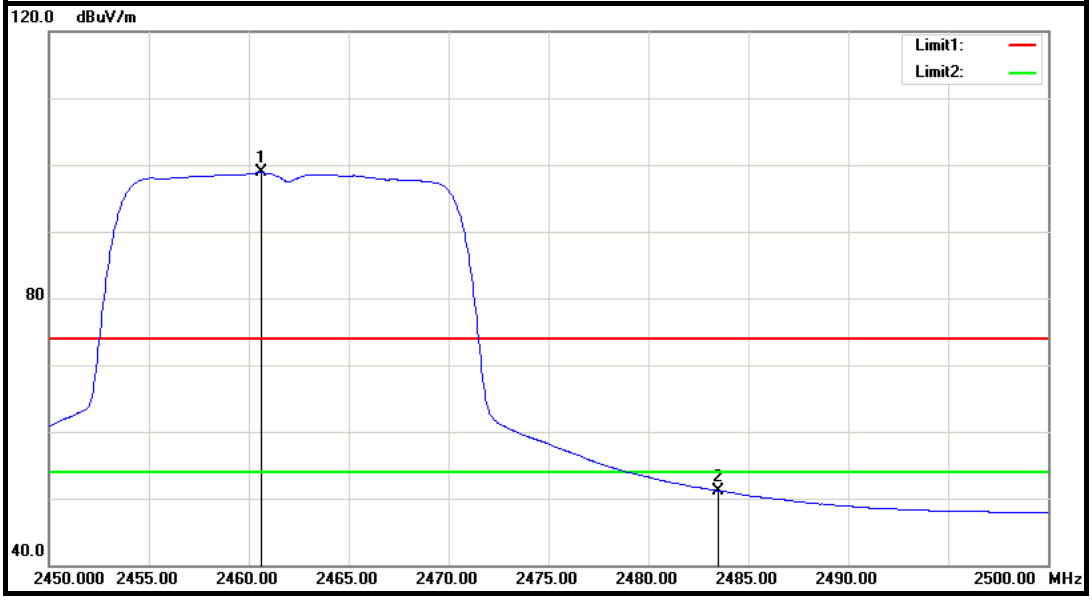
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2456.050 | 111.98 | -2.50 | 109.48 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 68.91 | -2.35 | 66.56 | 74.00 | -7.44 | Peak | Horizontal |
| 1 | 2460.600 | 101.31 | -2.48 | 98.83 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 53.47 | -2.35 | 51.12 | 54.00 | -2.88 | Average | Horizontal |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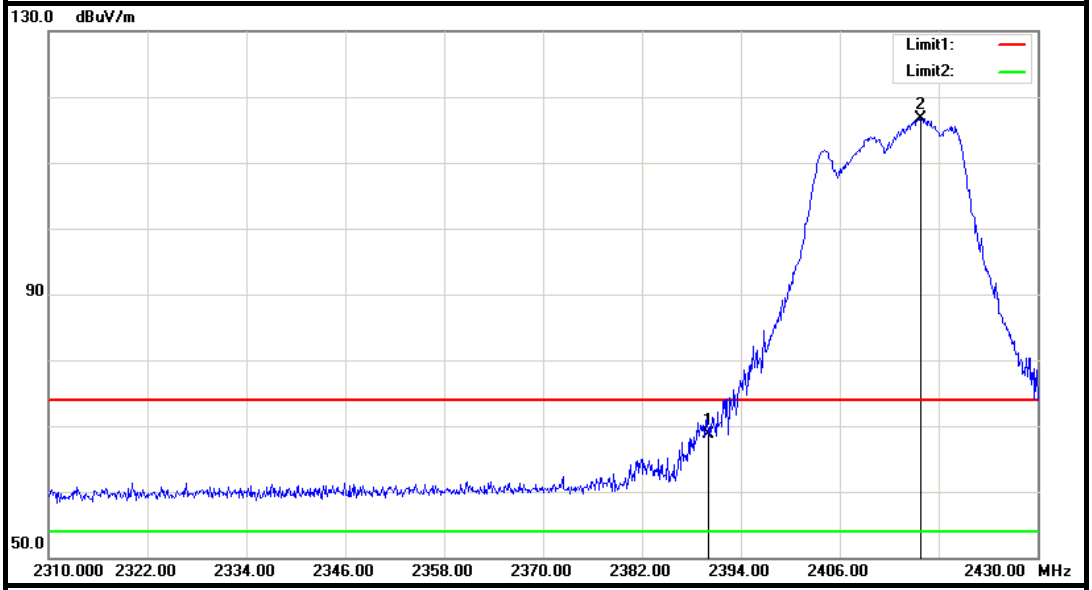
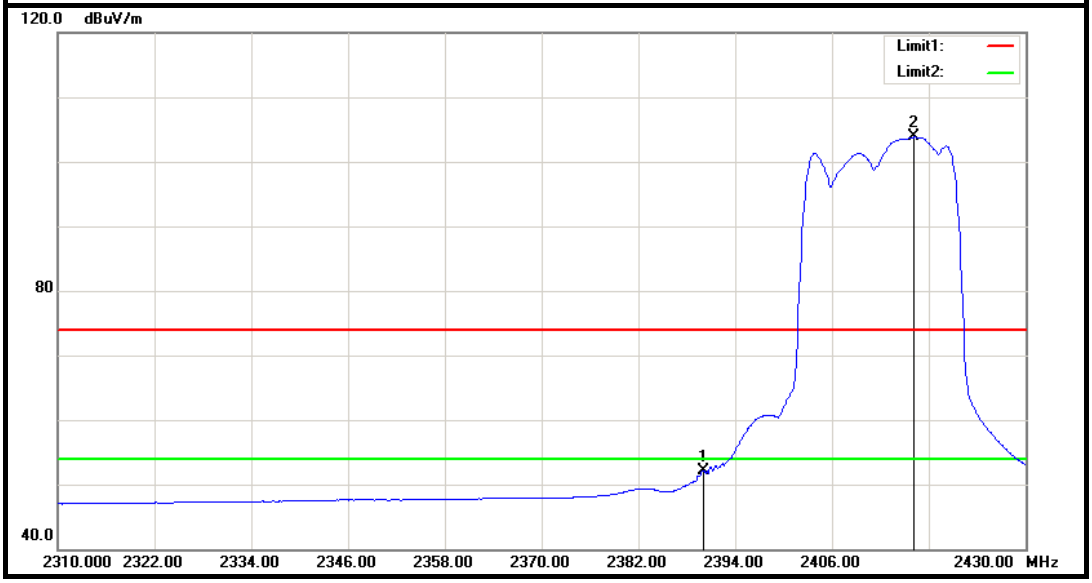
## IEEE 802.11n HT20 MHz mode (Combine with antenna 0, antenna 1, antenna 2 and antenna 3)

### Band Edges (CH Low)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 71.63 | -2.86 | 68.77 | 74.00 | -5.23 | Peak | Vertical |
| 2 | 2415.840 | 119.50 | -2.72 | 116.78 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 54.92 | -2.86 | 52.06 | 54.00 | -1.94 | Average | Vertical |
| 2 | 2416.200 | 106.55 | -2.72 | 103.83 | --- | --- | Average | Vertical |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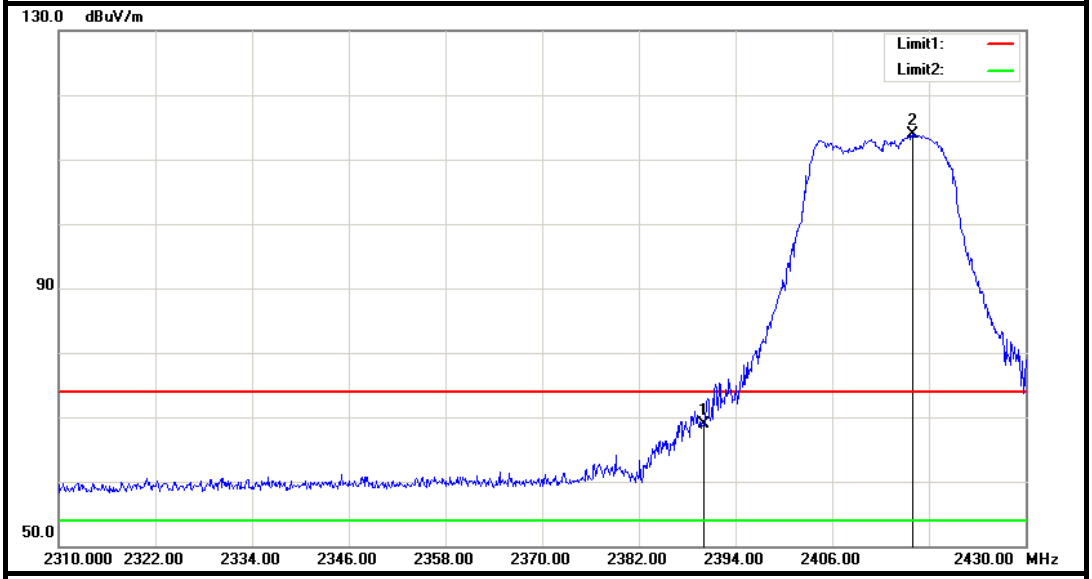
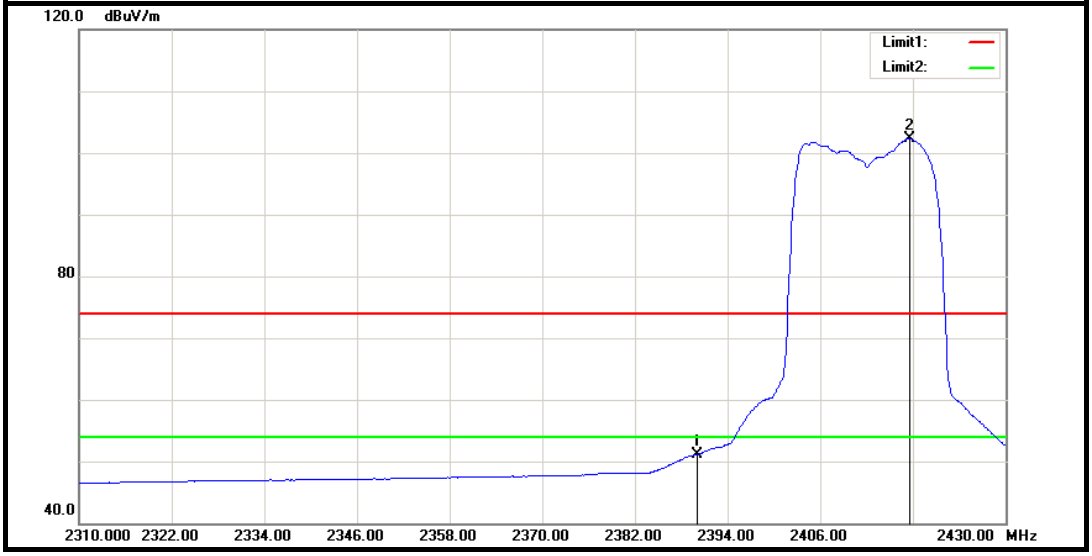
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 71.76 | -2.86 | 68.90 | 74.00 | -5.10 | Peak | Horizontal |
| 2 | 2415.960 | 116.62 | -2.72 | 113.90 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 53.95 | -2.86 | 51.09 | 54.00 | -2.91 | Average | Horizontal |
| 2 | 2417.520 | 104.98 | -2.71 | 102.27 | --- | --- | Average | Horizontal |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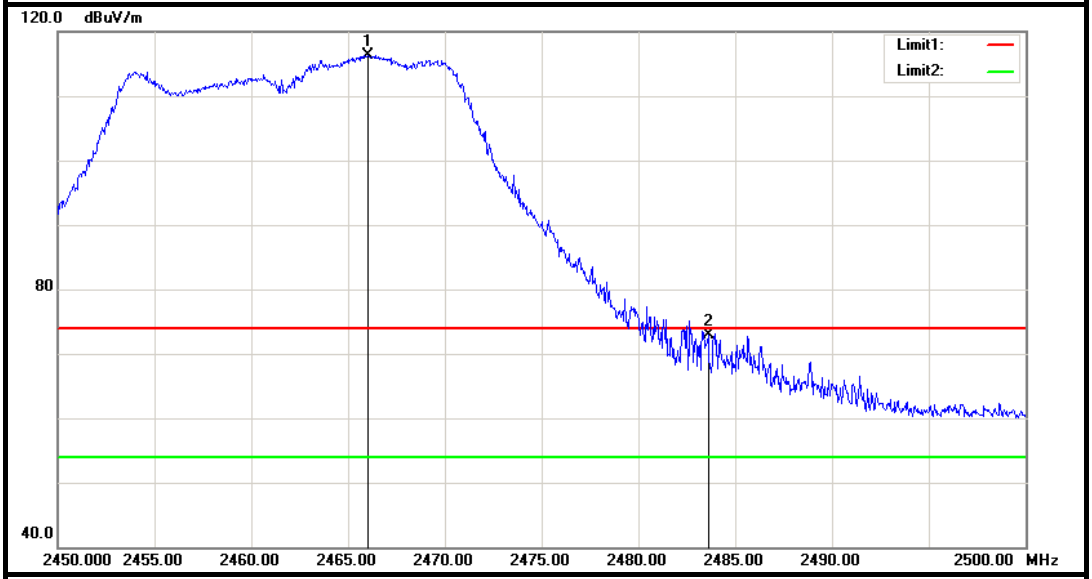
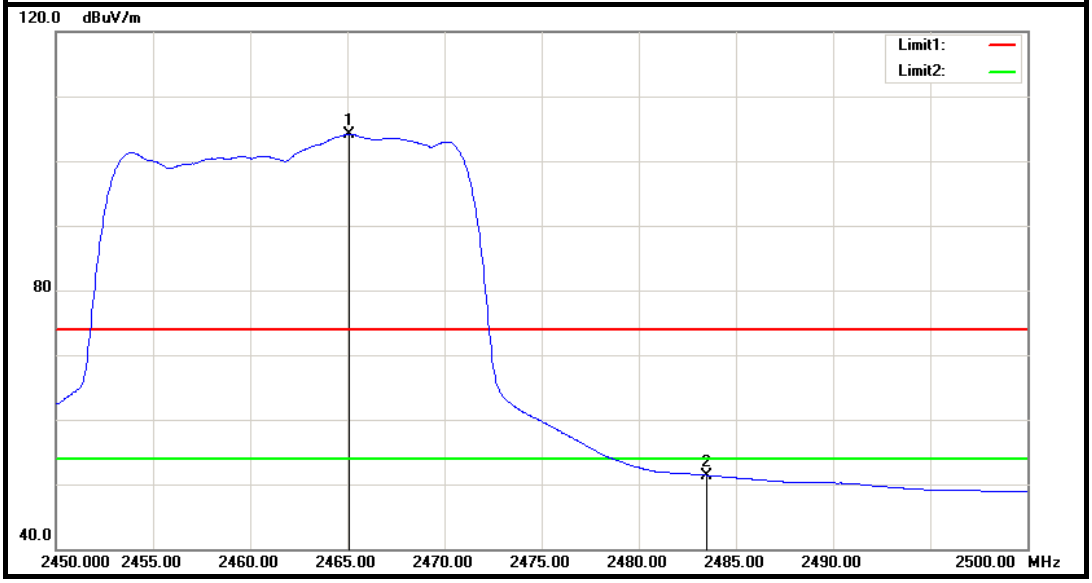
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2466.050 | 118.69 | -2.45 | 116.24 | --- | --- | Peak | Vertical |
| 2 | 2483.600 | 75.30 | -2.35 | 72.95 | 74.00 | -1.05 | Peak | Vertical |
| 1 | 2465.100 | 106.56 | -2.45 | 104.11 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 53.75 | -2.35 | 51.40 | 54.00 | -2.60 | Average | Vertical |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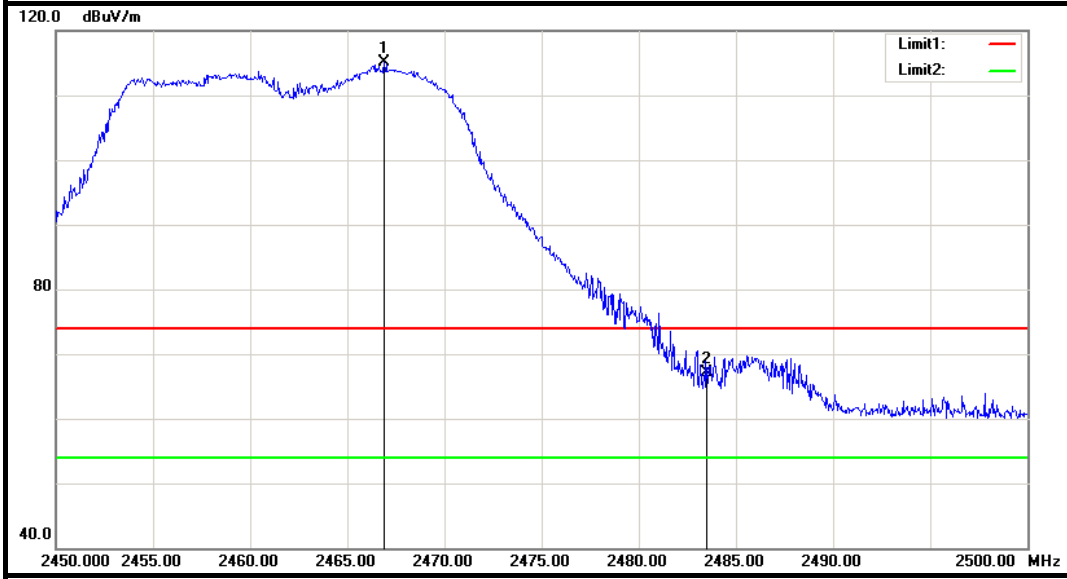
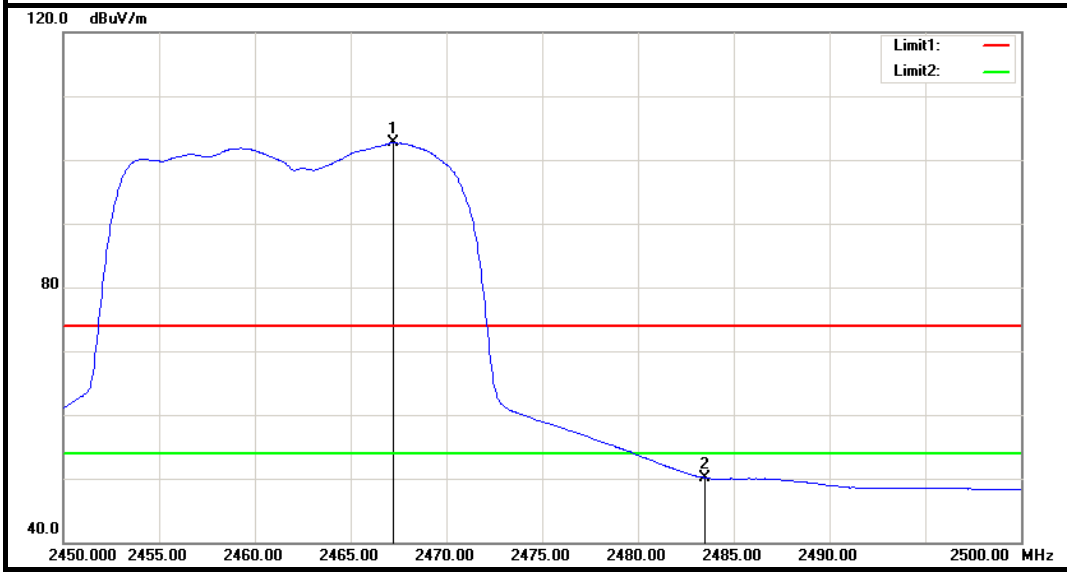
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2466.900 | 117.49 | -2.44 | 115.05 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 69.40 | -2.35 | 67.05 | 74.00 | -6.95 | Peak | Horizontal |
| 1 | 2467.250 | 105.11 | -2.44 | 102.67 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 52.50 | -2.35 | 50.15 | 54.00 | -3.85 | Average | Horizontal |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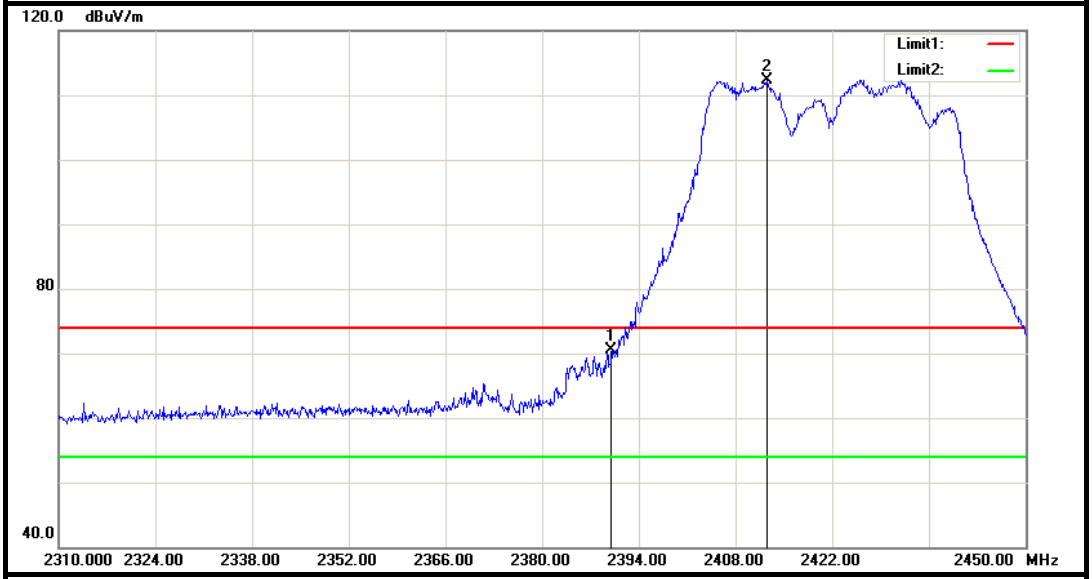
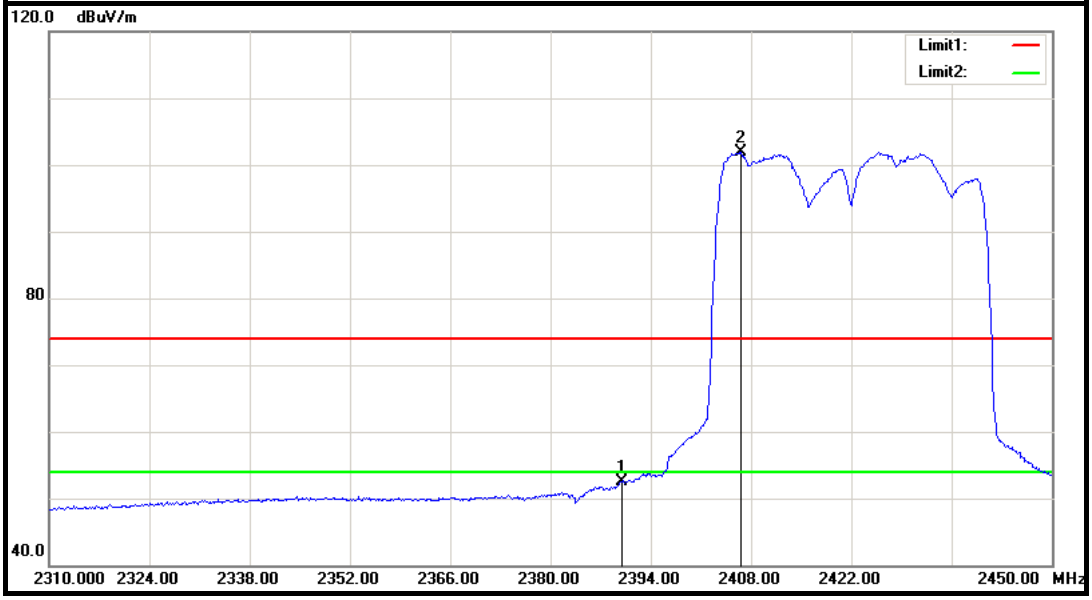
## IEEE 802.11n HT40 MHz mode (Combine with antenna 0, antenna 1, antenna 2 and antenna 3)

### Band Edges (CH Low)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 73.39 | -2.86 | 70.53 | 74.00 | -3.47 | Peak | Vertical |
| 2 | 2412.480 | 115.12 | -2.74 | 112.38 | --- | --- | Peak | Vertical |
| 1 | 2390.000 | 55.36 | -2.86 | 52.50 | 54.00 | -1.50 | Average | Vertical |
| 2 | 2406.600 | 104.66 | -2.77 | 101.89 | --- | --- | Average | Vertical |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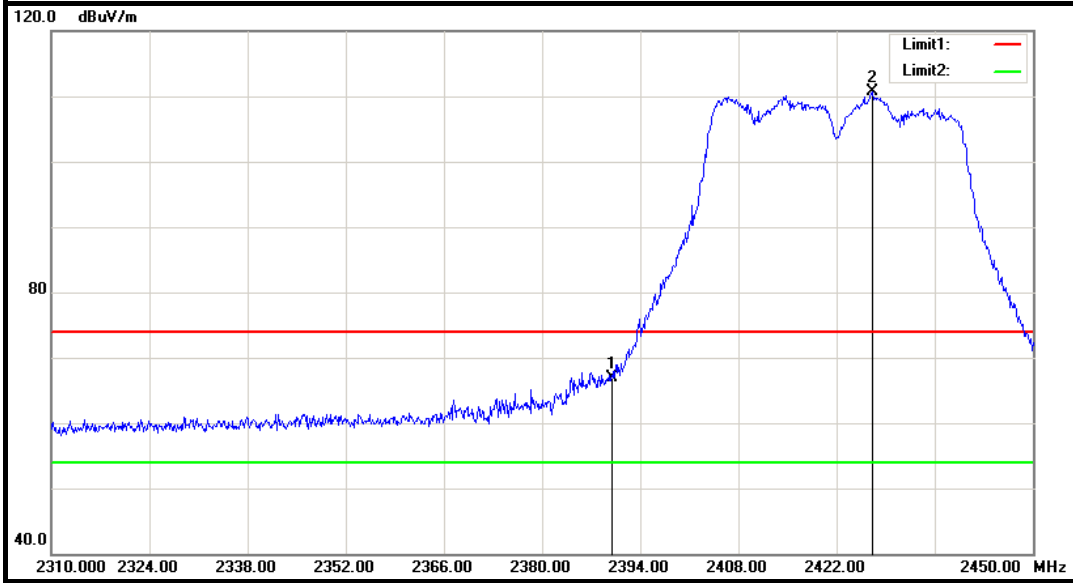
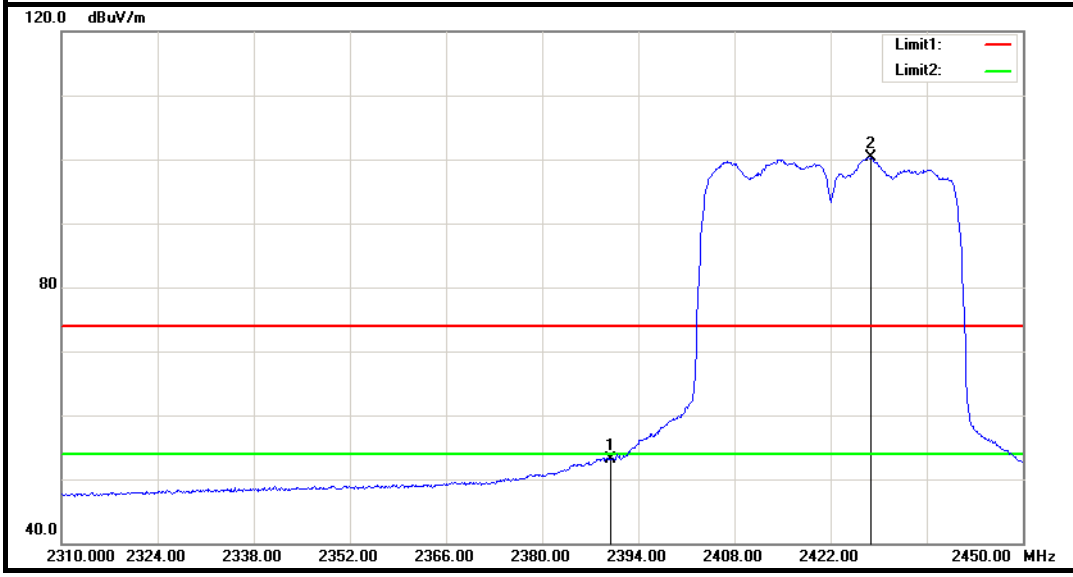
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 69.74 | -2.86 | 66.88 | 74.00 | -7.12 | Peak | Horizontal |
| 2 | 2427.040 | 113.37 | -2.66 | 110.71 | --- | --- | Peak | Horizontal |
| 1 | 2390.000 | 55.99 | -2.86 | 53.13 | 54.00 | -0.87 | Average | Horizontal |
| 2 | 2427.880 | 102.93 | -2.66 | 100.27 | --- | --- | Average | Horizontal |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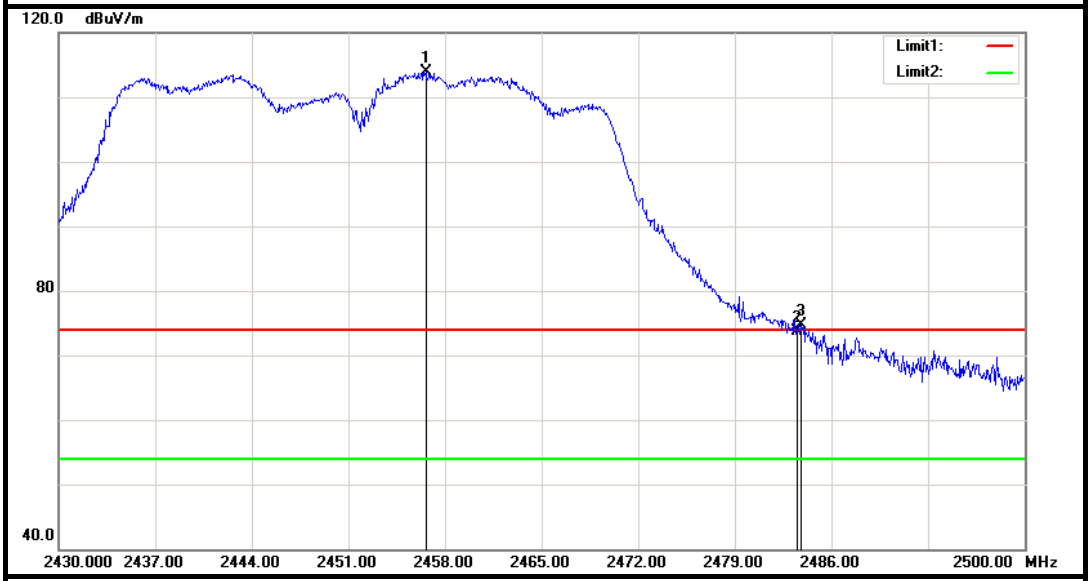
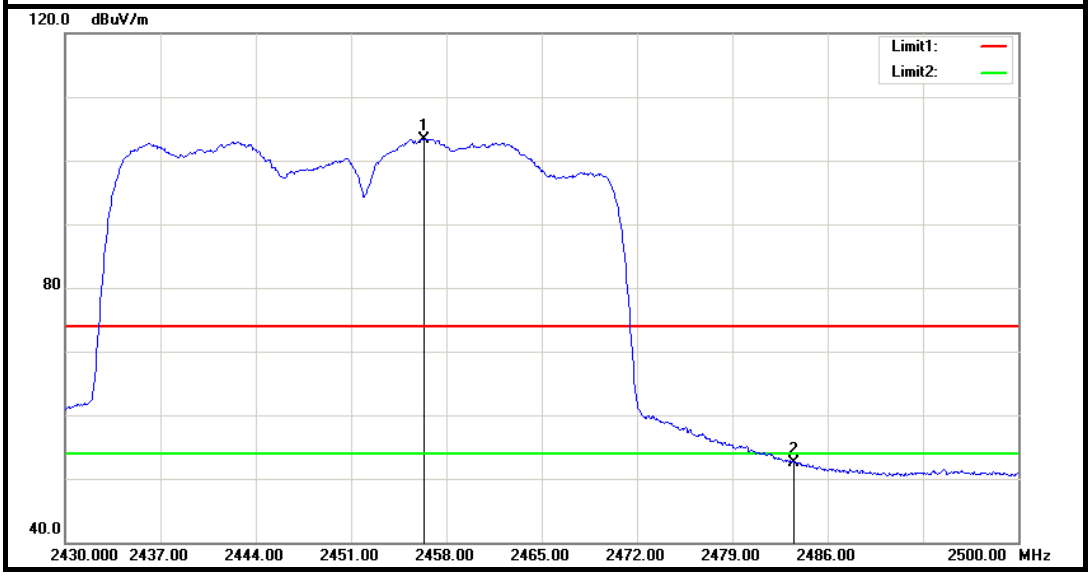
## Band Edges (CH High)

**Detector mode: Peak** **Polarity: Vertical**




**Detector mode: Average** **Polarity: Vertical**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2456.600 | 116.42 | -2.50 | 113.92 | --- | --- | Peak | Vertical |
| 2 | 2483.500 | 76.14 | -2.35 | 73.79 | 74.00 | -0.21 | Peak | Vertical |
| 3 | 2483.760 | 77.12 | -2.35 | 74.77 | 74.00 | 0.77 | Peak | Vertical |
| 1 | 2456.320 | 105.89 | -2.50 | 103.39 | --- | --- | Average | Vertical |
| 2 | 2483.500 | 54.77 | -2.35 | 52.42 | 54.00 | -1.58 | Average | Vertical |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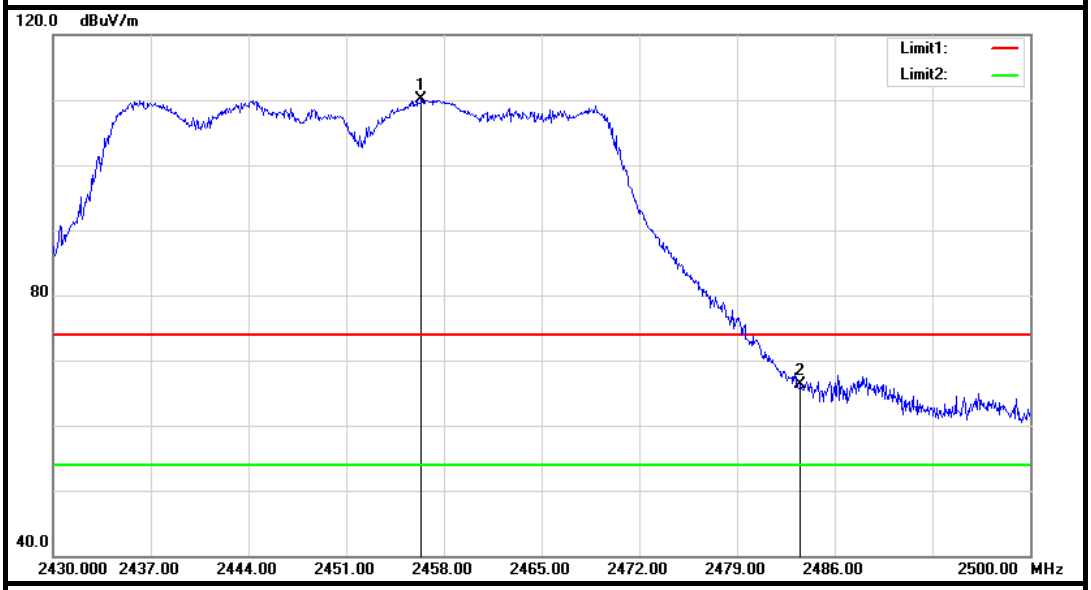
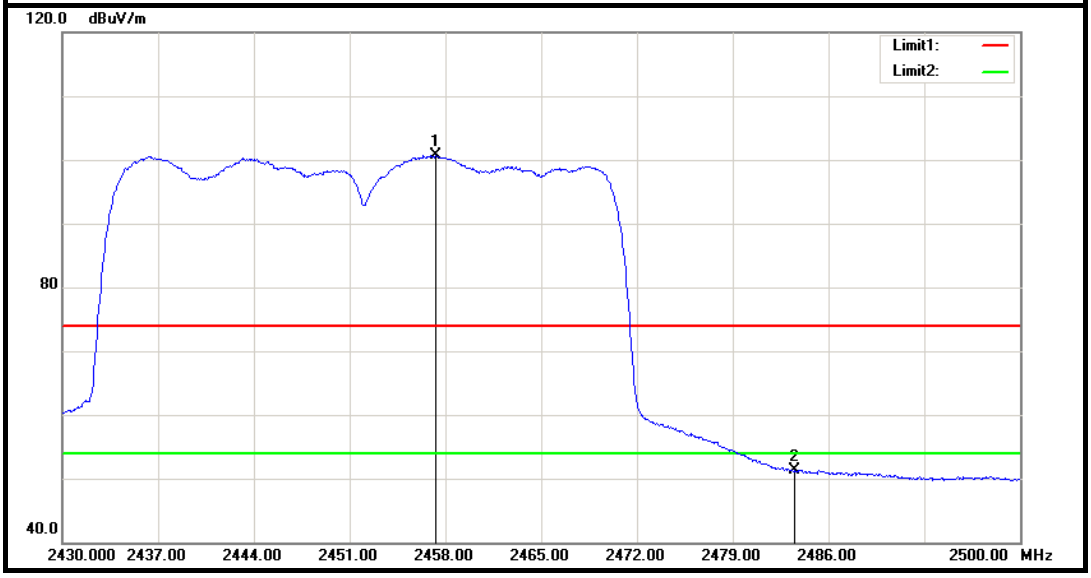
**Detector mode: Peak** **Polarity: Horizontal**




**Detector mode: Average** **Polarity: Horizontal**




| No. | Frequency (MHz) | Reading (dB) | Factor (dB/m) | Result (dB/m) | Limit (dB/m) | Margin (dB) | Remark | Antenna Polar |
|---|---|---|---|---|---|---|---|---|
| 1 | 2456.390 | 112.65 | -2.50 | 110.15 | --- | --- | Peak | Horizontal |
| 2 | 2483.500 | 68.68 | -2.35 | 66.33 | 74.00 | -7.67 | Peak | Horizontal |
| 1 | 2457.300 | 103.17 | -2.49 | 100.68 | --- | --- | Average | Horizontal |
| 2 | 2483.500 | 53.58 | -2.35 | 51.23 | 54.00 | -2.77 | Average | Horizontal |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## 7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

### 7.7.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

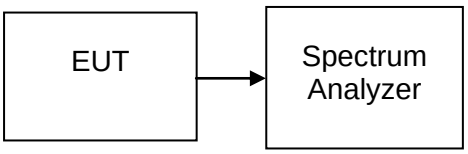
### 7.7.2. TEST PROCEDURES (please refer to measurement standard)

§15.247(e)specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

**10.2 Method PKPSD (peak PSD)**

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
4. Set the VBW ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 7.7.3. TEST SETUP





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### 7.7.4. TEST RESULTS

*No non-compliance noted*

**Test Data**

**Test mode: IEEE 802.11b**

| Channel | Frequency (MHz) | PPSD (dBm) | | | | Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| | | antenna 0 | antenna 1 | antenna 2 | antenna 3 | | |
| Low | 2412 | 2.032 | 0.575 | 0.388 | 0.003 | 8 | PASS |
| Mid | 2437 | 0.383 | -0.326 | 1.440 | -0.104 | | PASS |
| High | 2462 | 0.484 | 0.594 | 1.871 | 1.245 | | PASS |

**Test mode: IEEE 802.11g**

| Channel | Frequency (MHz) | PPSD (dBm) | | | | Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|
| | | antenna 0 | antenna 1 | antenna 2 | antenna 3 | | |
| Low | 2412 | -8.068 | -7.441 | -8.559 | -14.550 | 8 | PASS |
| Mid | 2437 | -8.563 | -8.135 | -8.427 | -7.386 | | PASS |
| High | 2462 | -7.723 | -7.601 | -7.682 | -7.306 | | PASS |

**Test mode: IEEE 802.11n HT20 MHz (Combine with Antenna 0 and Antenna 1)**

| Channel | Frequency (MHz) | PPSD (dBm) | | | | | Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|---|
| | | antenna 0 | antenna 1 | antenna 2 | antenna 3 | Total | | |
| Low | 2412 | -12.702 | -13.721 | -13.558 | -13.854 | -7.414 | 8 | PASS |
| Mid | 2437 | -12.723 | -15.494 | -14.318 | -13.761 | -7.940 | | PASS |
| High | 2462 | -11.350 | -14.162 | -11.423 | -12.304 | -6.152 | | PASS |

**Test mode: IEEE 802.11n HT40 MHz (Combine with Antenna 0 and Antenna 1)**

| Channel | Frequency (MHz) | PPSD (dBm) | | | | | Limit (dBm) | Test Result |
|---|---|---|---|---|---|---|---|---|
| | | antenna 0 | antenna 1 | antenna 2 | antenna 3 | Total | | |
| Low | 2422 | -14.723 | -16.429 | -15.969 | -16.244 | -9.767 | 8 | PASS |
| Mid | 2437 | -16.760 | -17.634 | -16.720 | -16.004 | -10.721 | | PASS |
| High | 2452 | -17.816 | -16.693 | -16.507 | -15.636 | -10.574 | | PASS |


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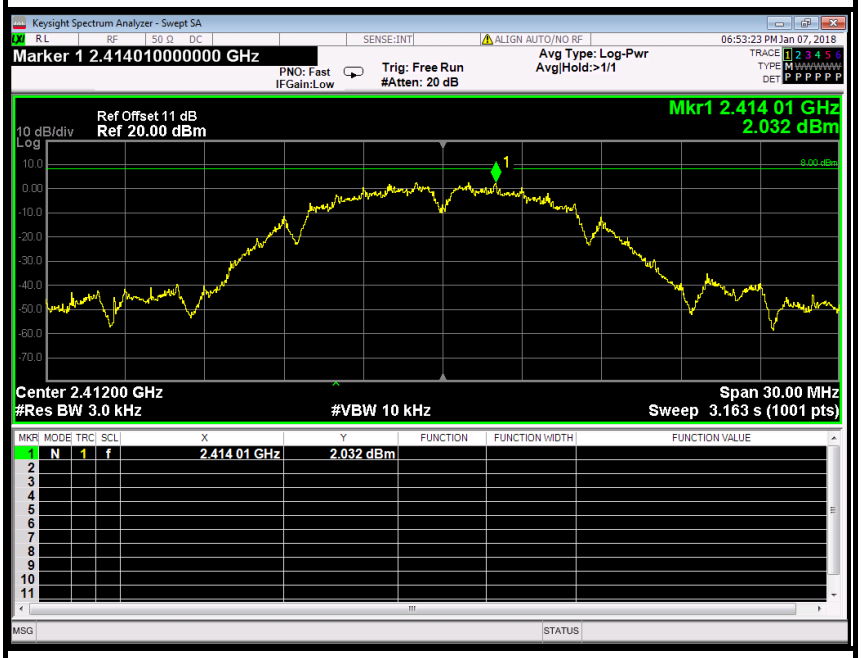
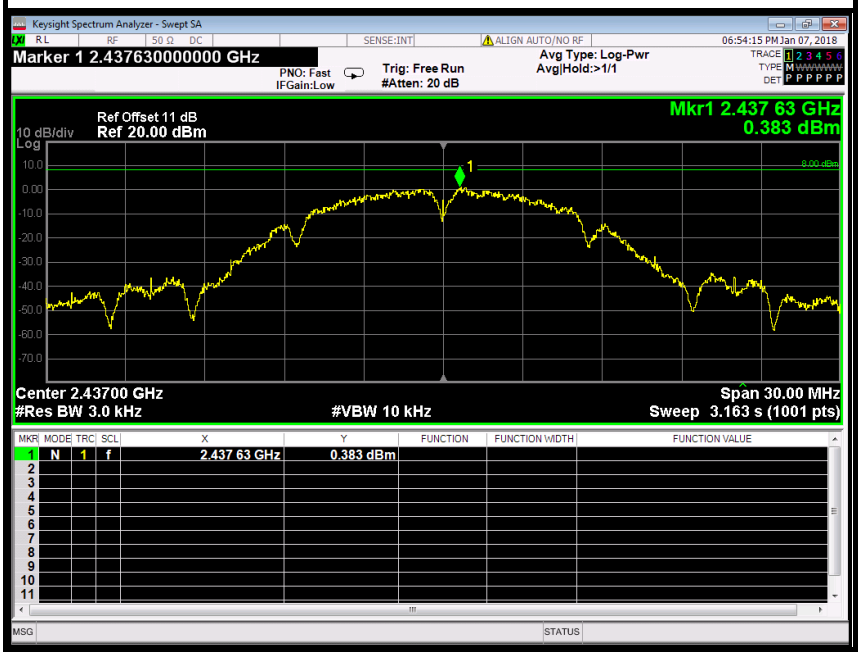
## Test Plot

### IEEE 802.11b mode (antenna 0)

**PPSD (CH Low)**




**PPSD (CH Mid)**





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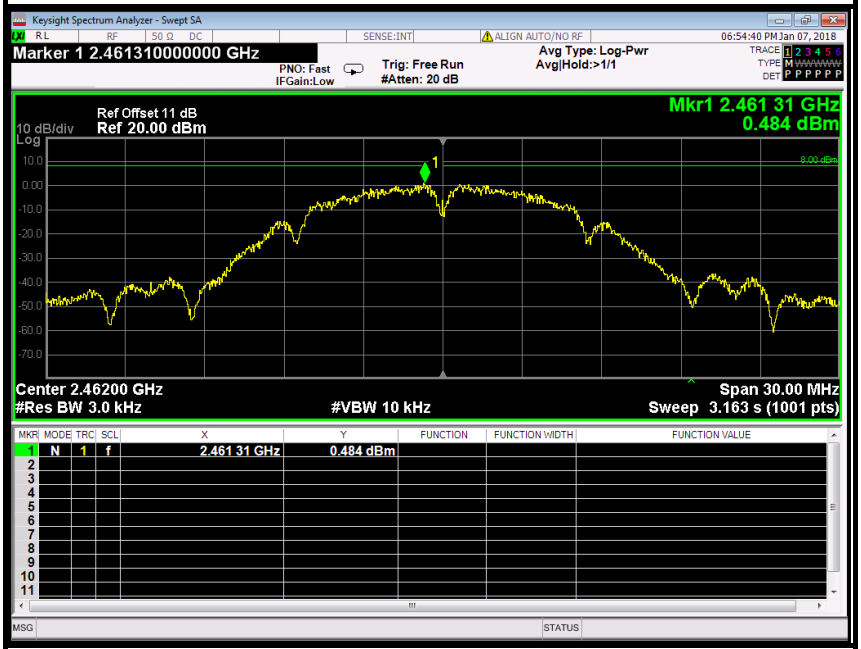
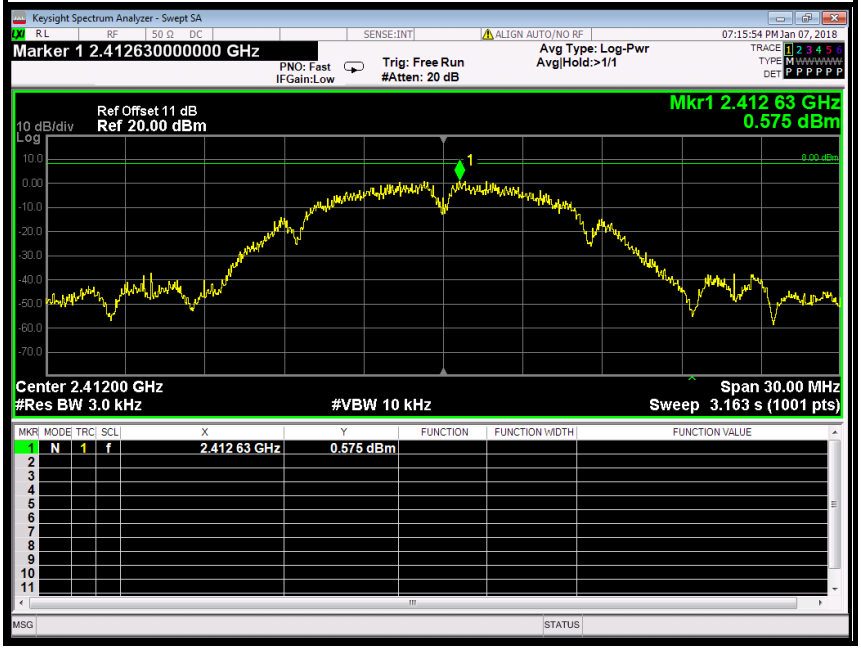
## PPSD (CH High)




## IEEE 802.11b mode (antenna 1)

## PPSD (CH Low)





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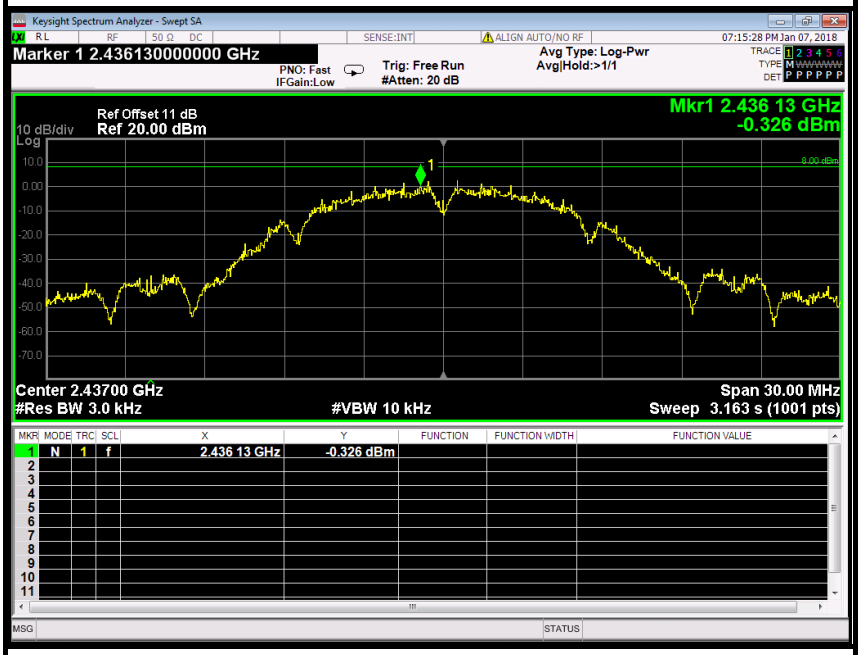
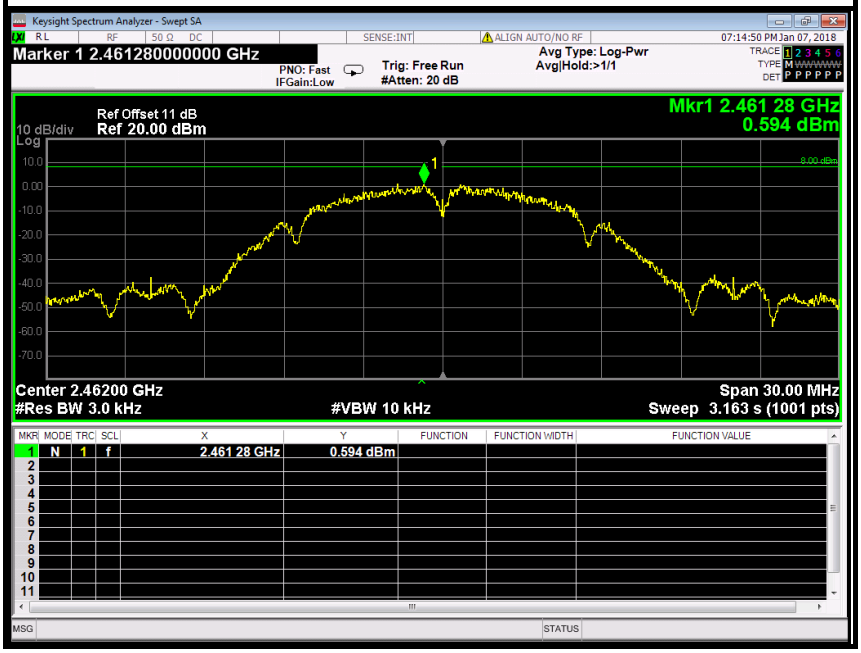
## PPSD (CH Mid)




## PPSD (CH High)





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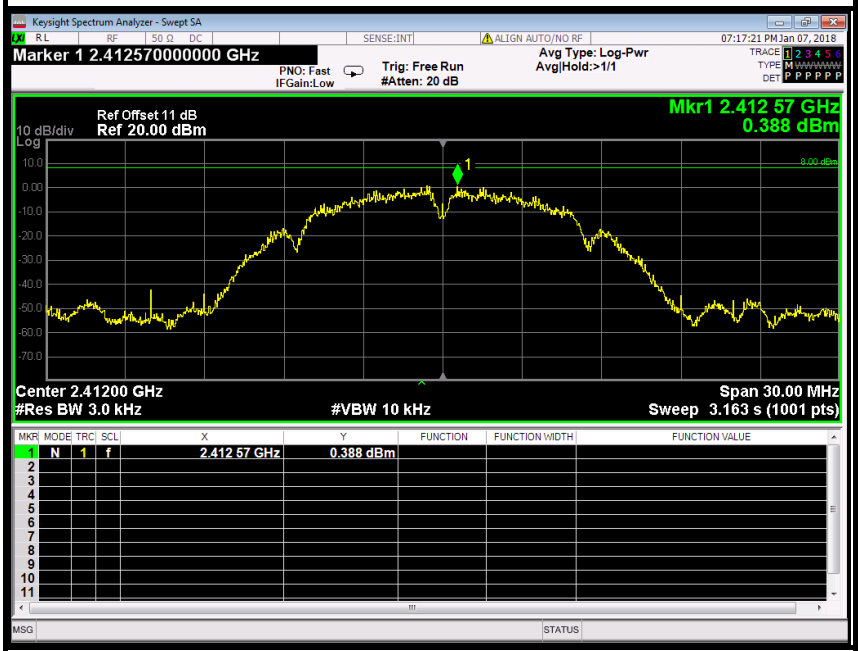
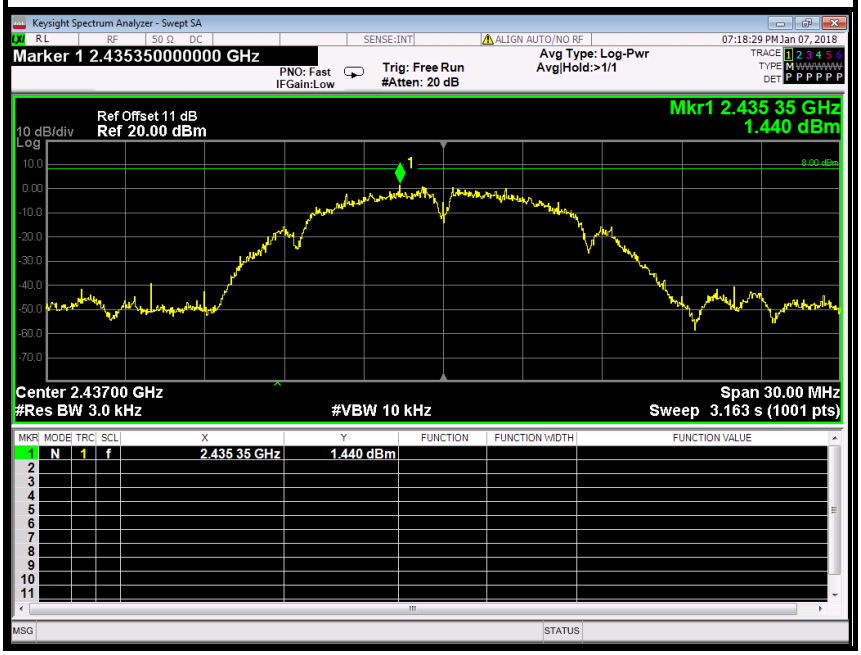
## IEEE 802.11b mode (antenna 2)

### PPSD (CH Low)




### PPSD (CH Mid)





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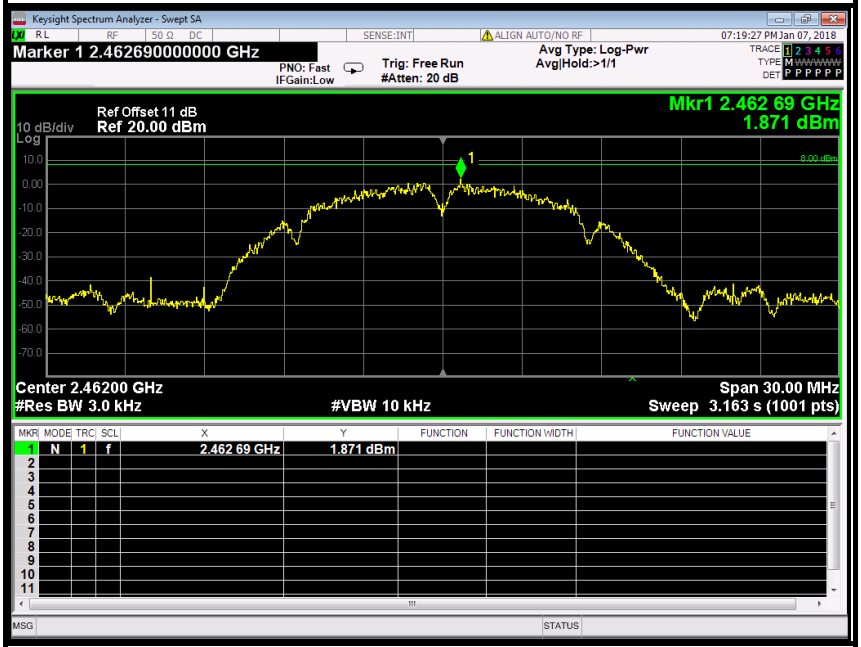
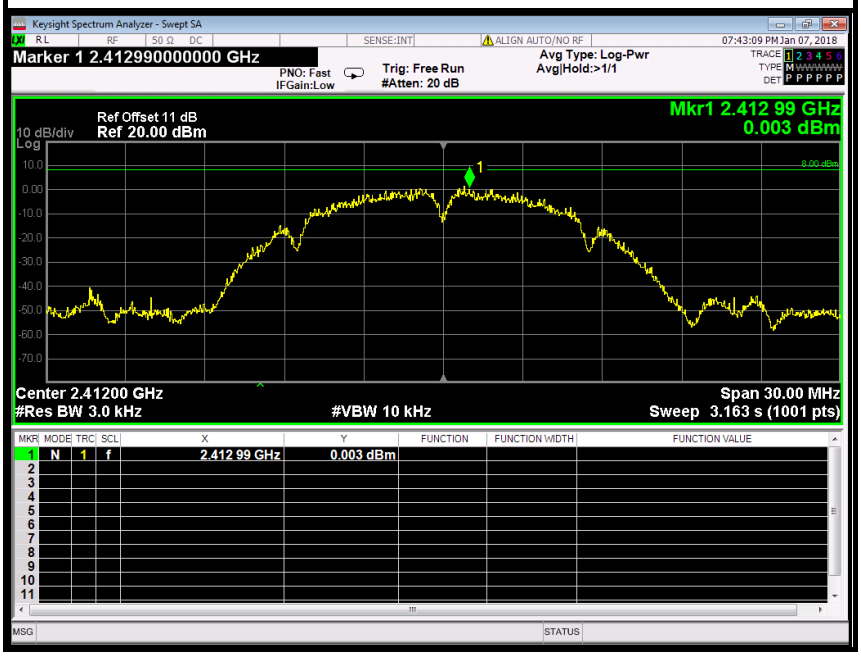
## PPSD (CH High)




## IEEE 802.11b mode (antenna 3)

## PPSD (CH Low)





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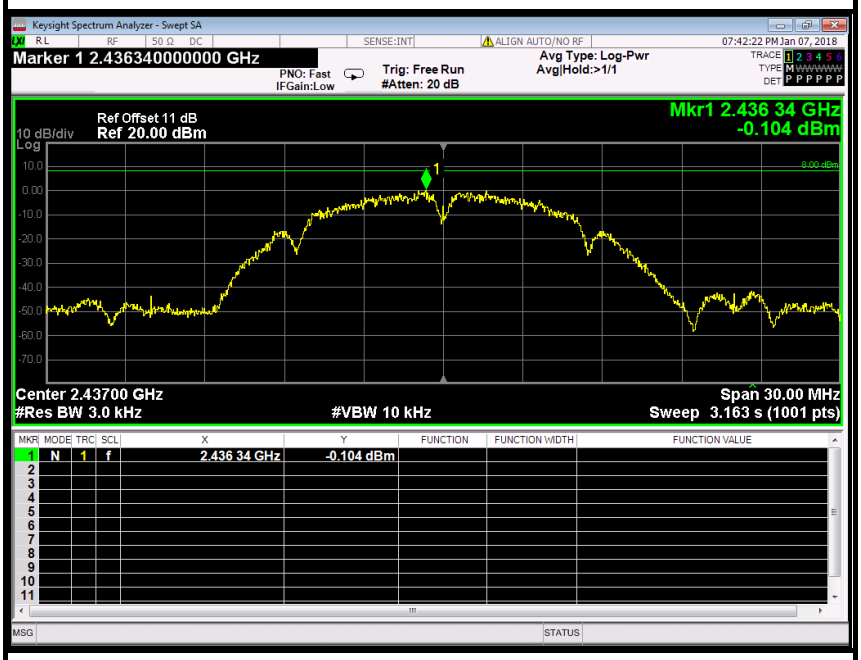
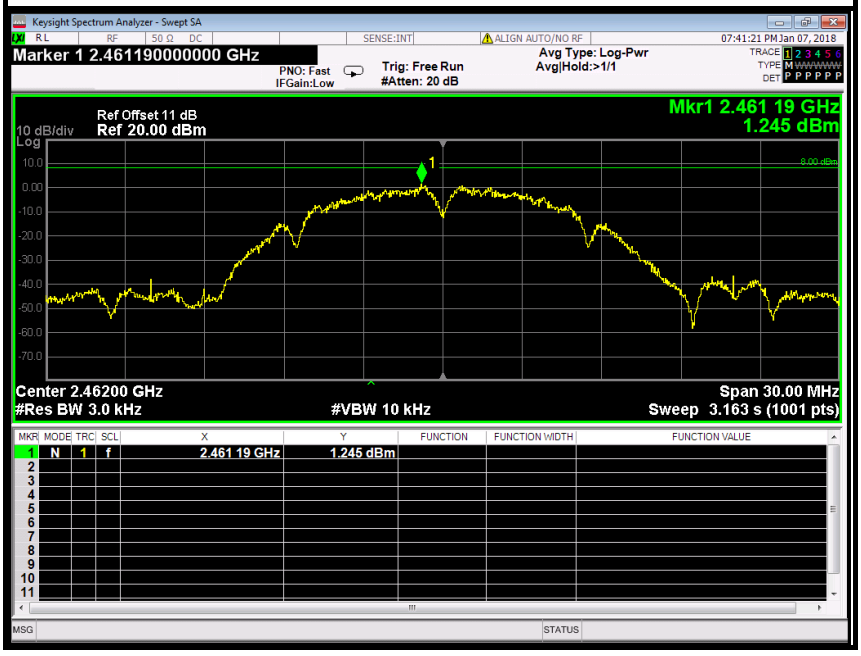
## PPSD (CH Mid)




## PPSD (CH High)





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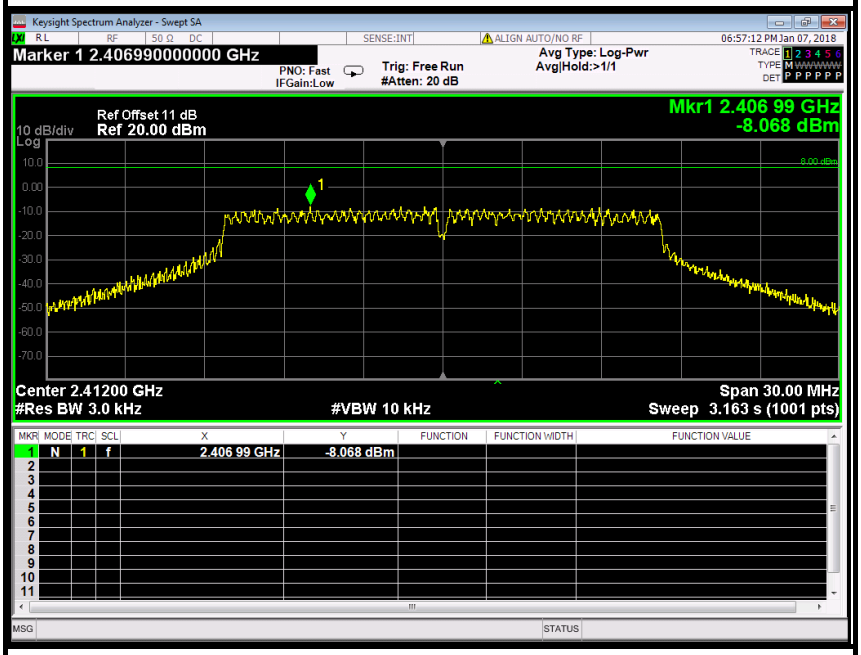
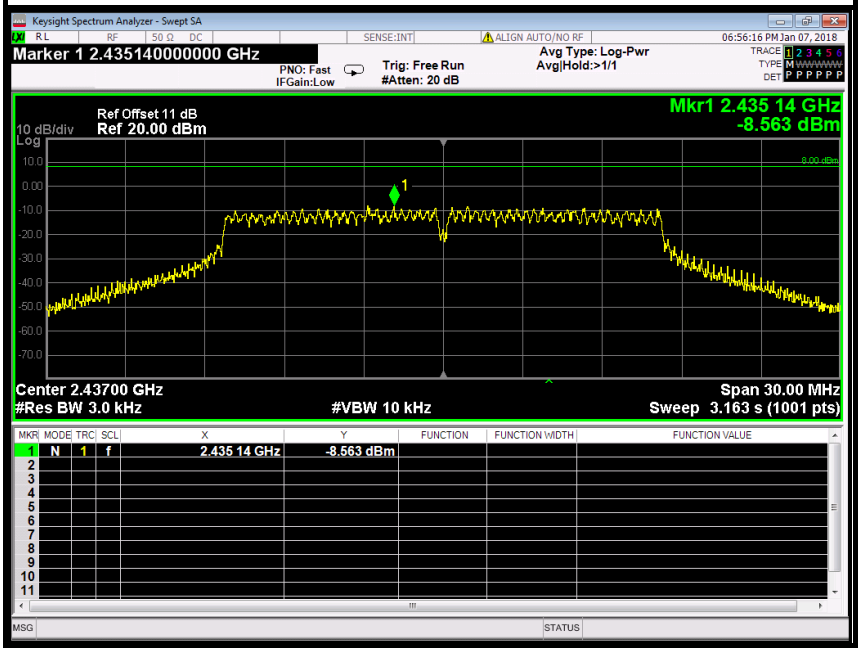
## IEEE 802.11g mode (antenna 0)

### PPSD (CH Low)




### PPSD (CH Mid)





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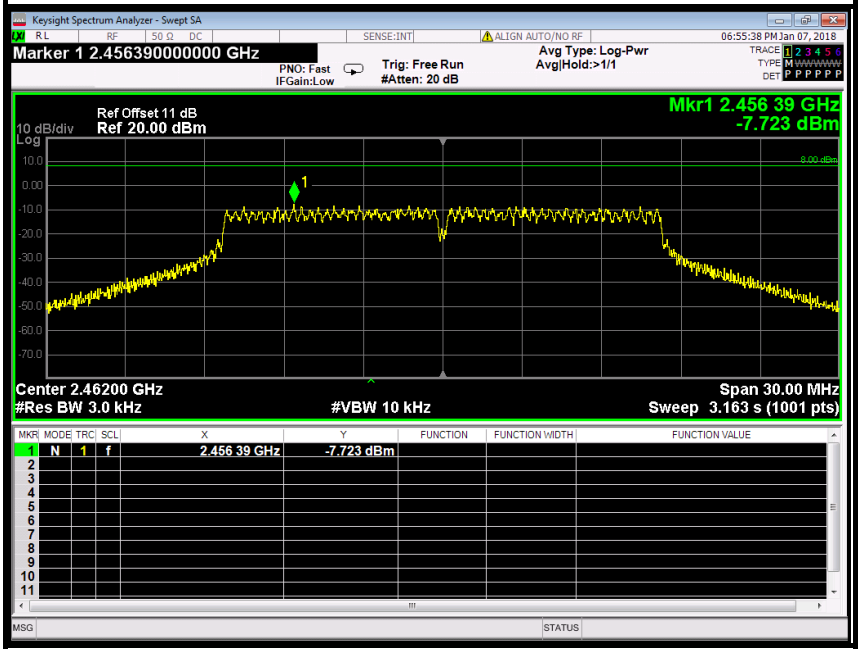
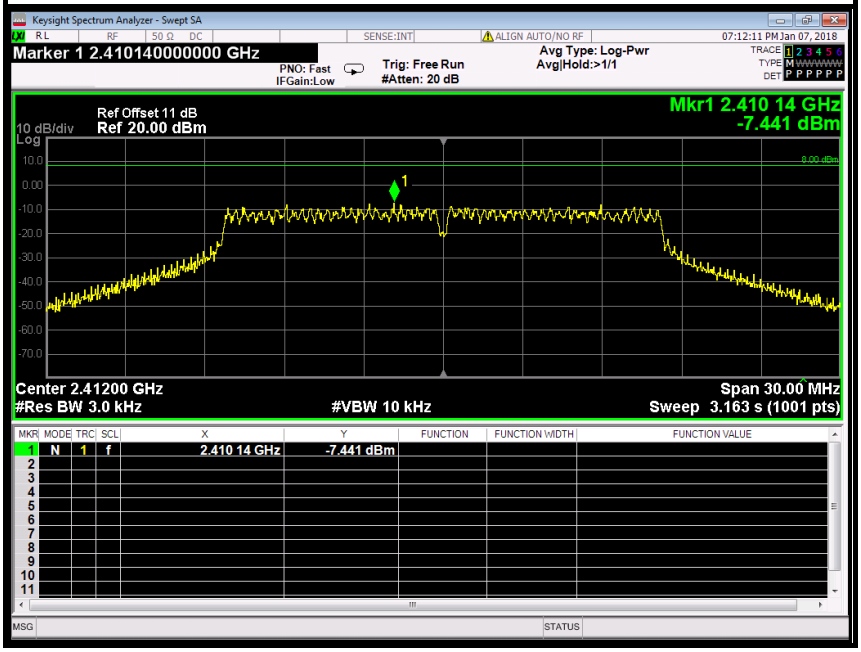
## PPSD (CH High)




## IEEE 802.11g mode (antenna 1)

## PPSD (CH Low)





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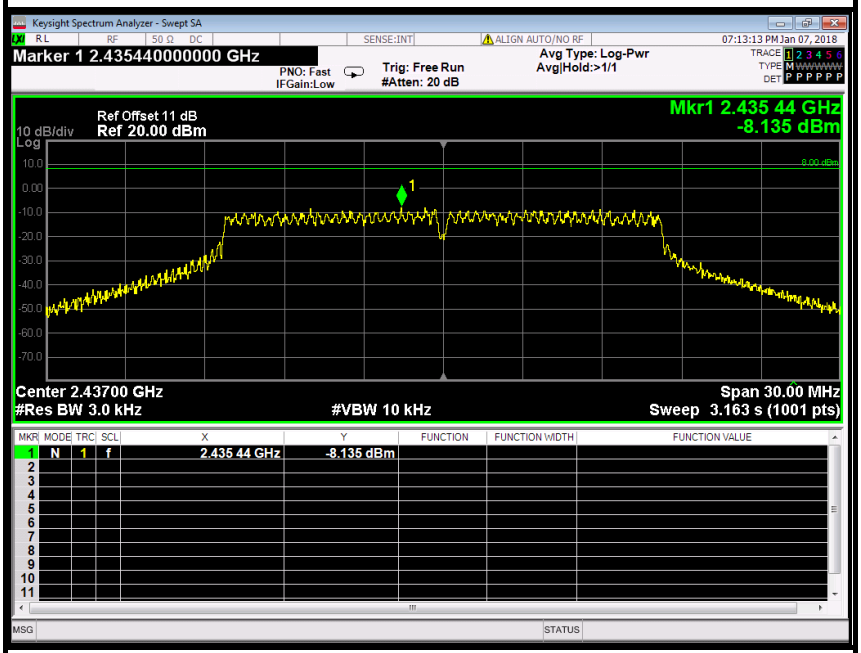
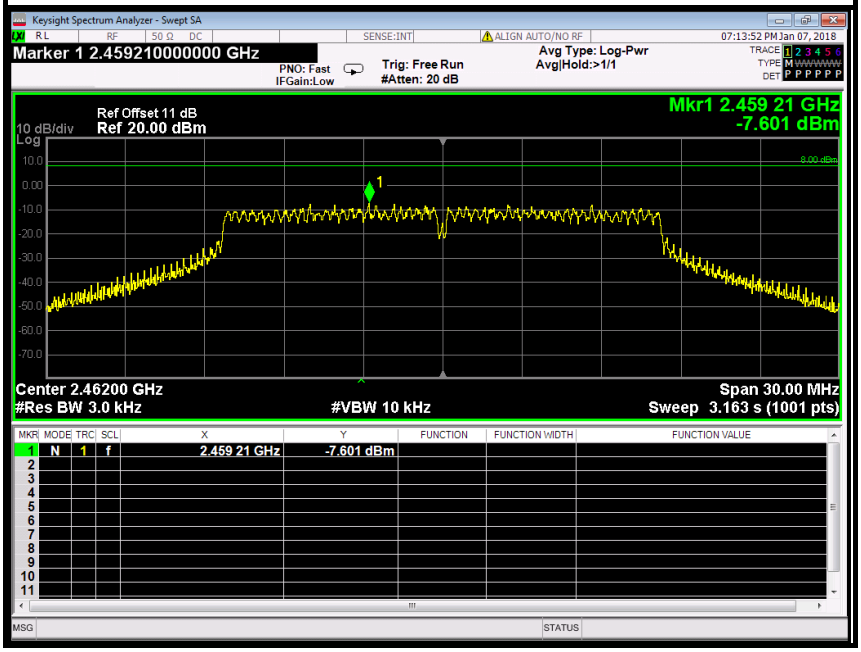
## PPSD (CH Mid)




## PPSD (CH High)





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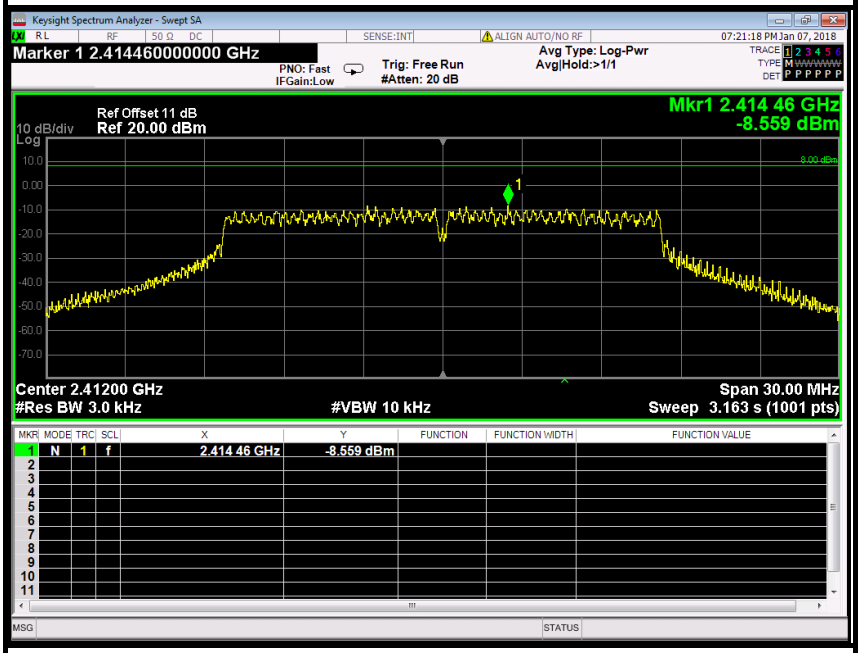
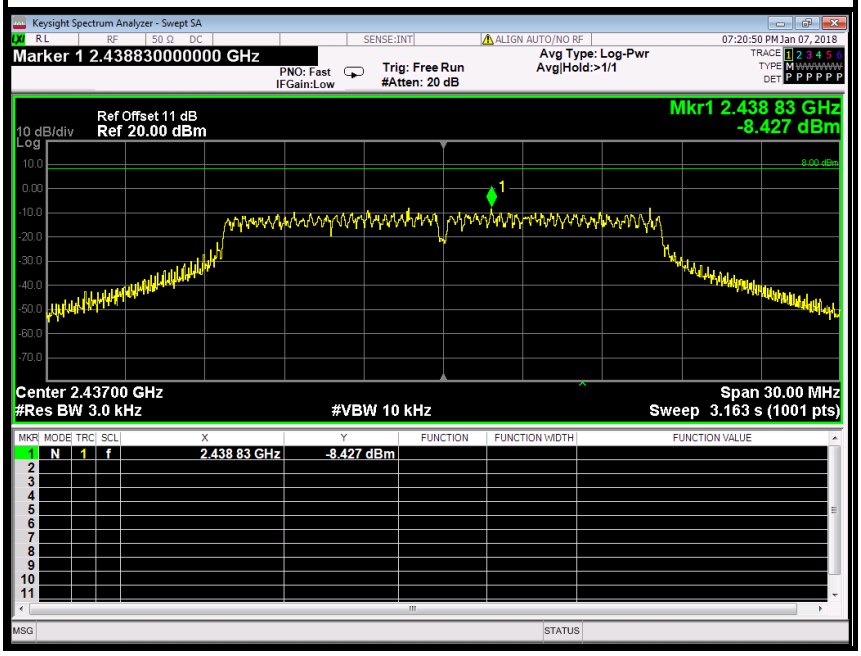
## IEEE 802.11g mode (antenna 2)

### PPSD (CH Low)




### PPSD (CH Mid)





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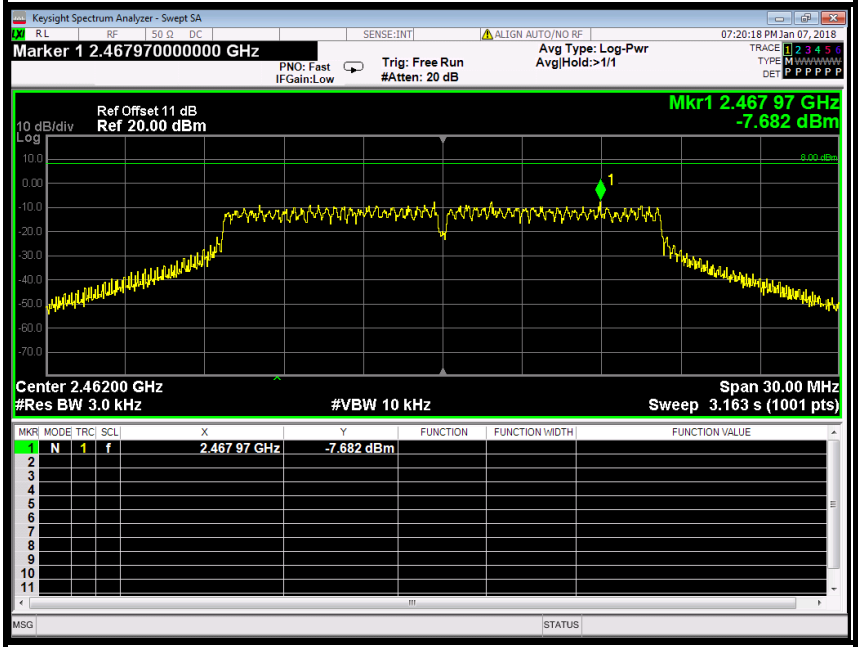
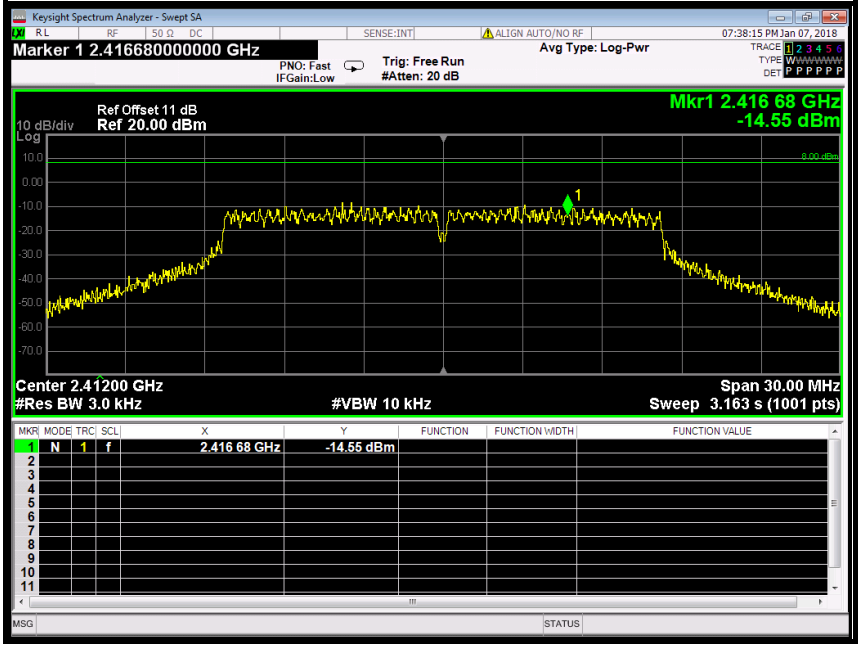
## PPSD (CH High)




## IEEE 802.11g mode (antenna 3)

## PPSD (CH Low)





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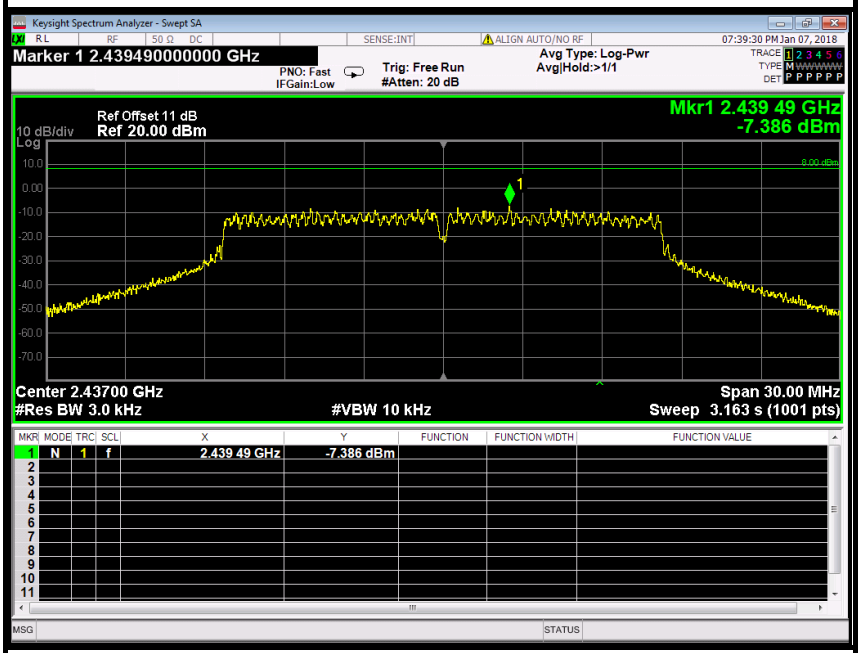
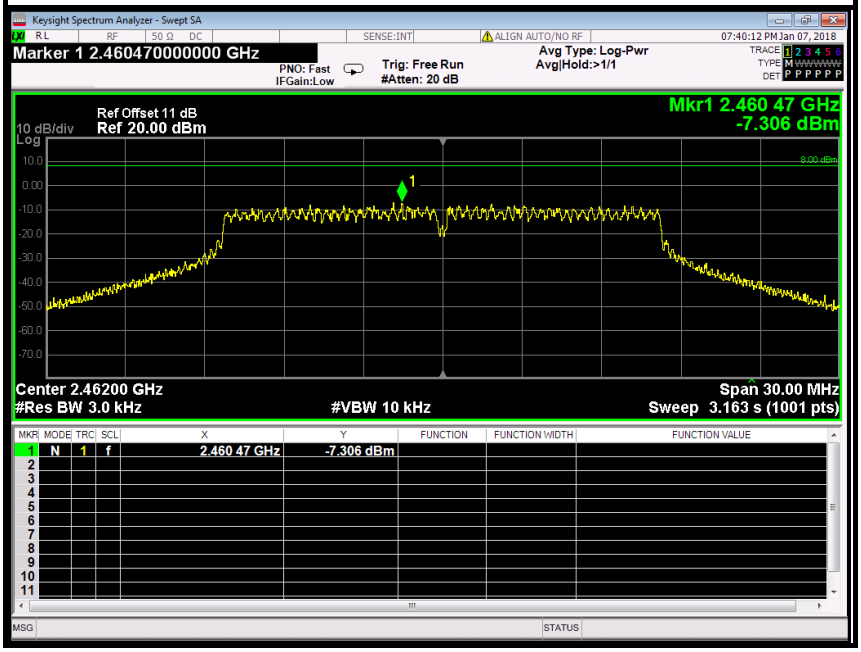
## PPSD (CH Mid)




## PPSD (CH High)





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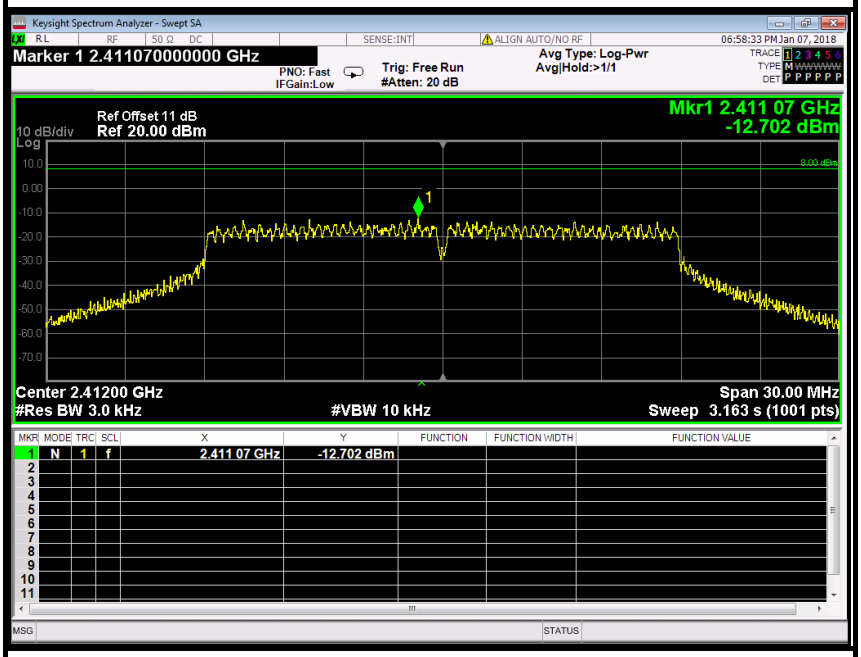
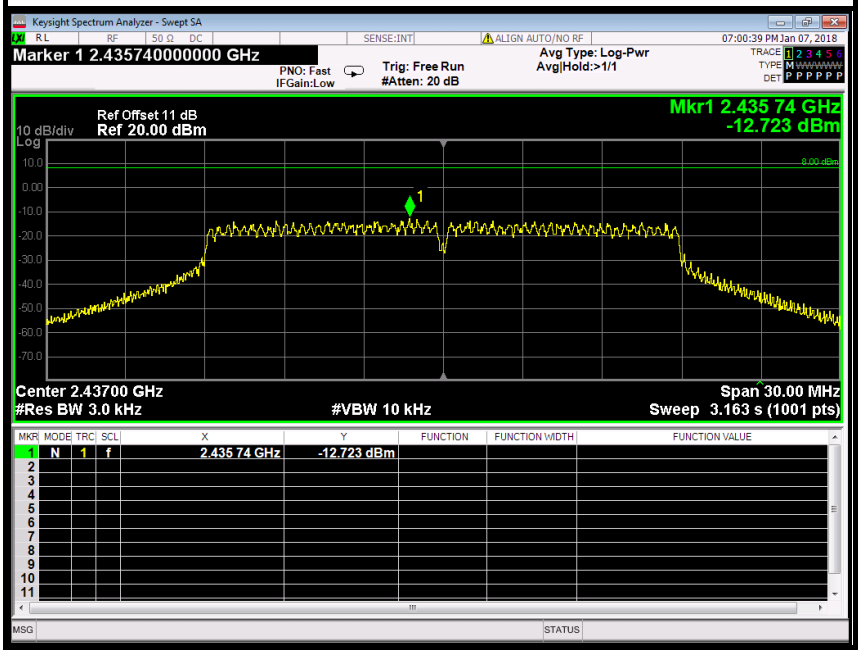
## IEEE 802.11n HT20 MHz mode (antenna 0)

### PPSD (CH Low)




### PPSD (CH Mid)





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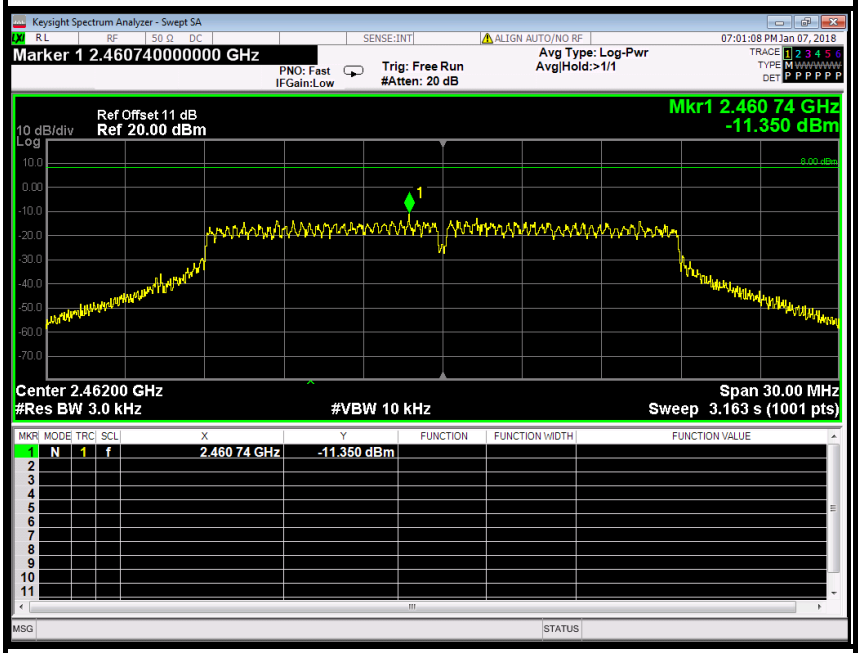
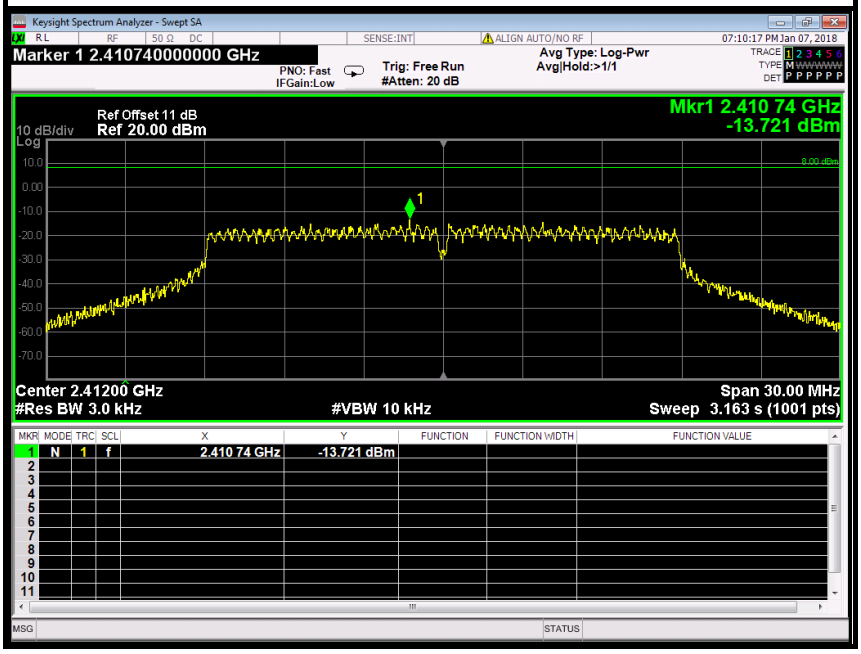
## PPSD (CH High)




## IEEE 802.11n HT20 MHz mode (antenna 1)

## PPSD (CH Low)





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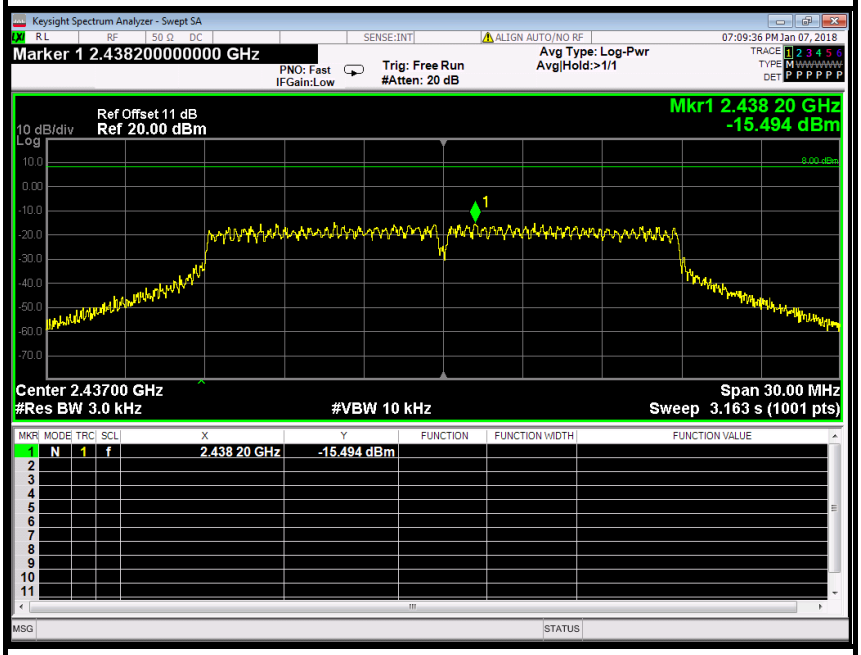
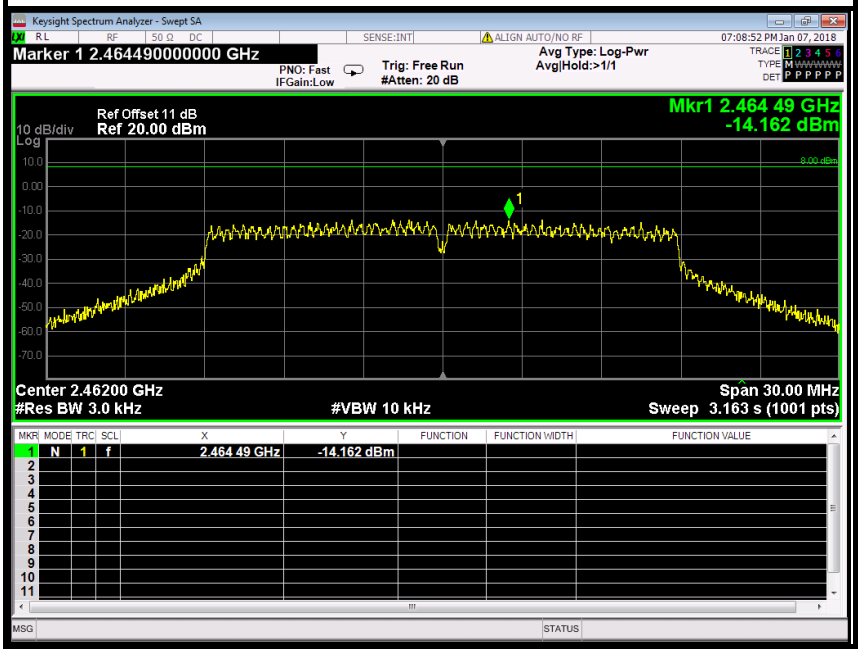
## PPSD (CH Mid)




## PPSD (CH High)





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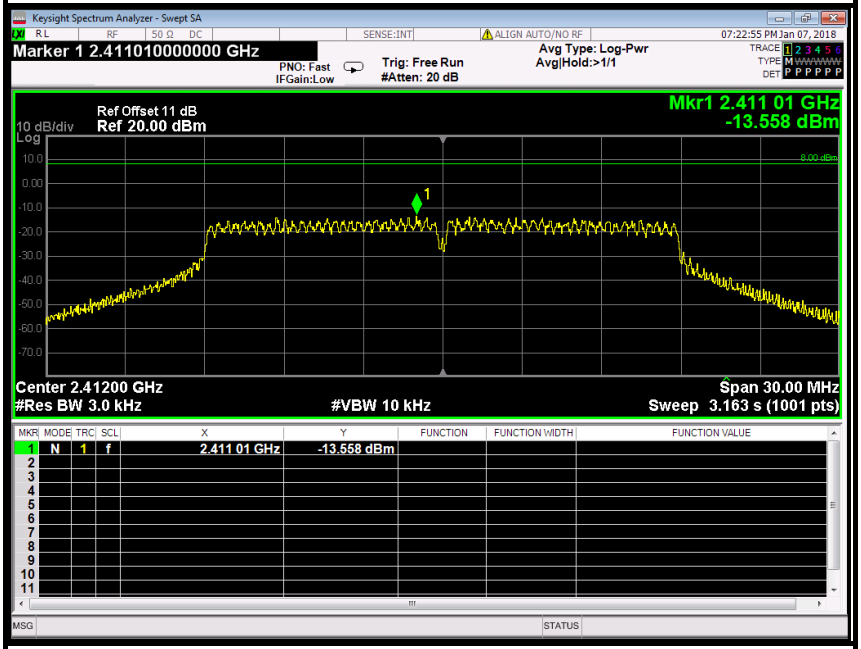
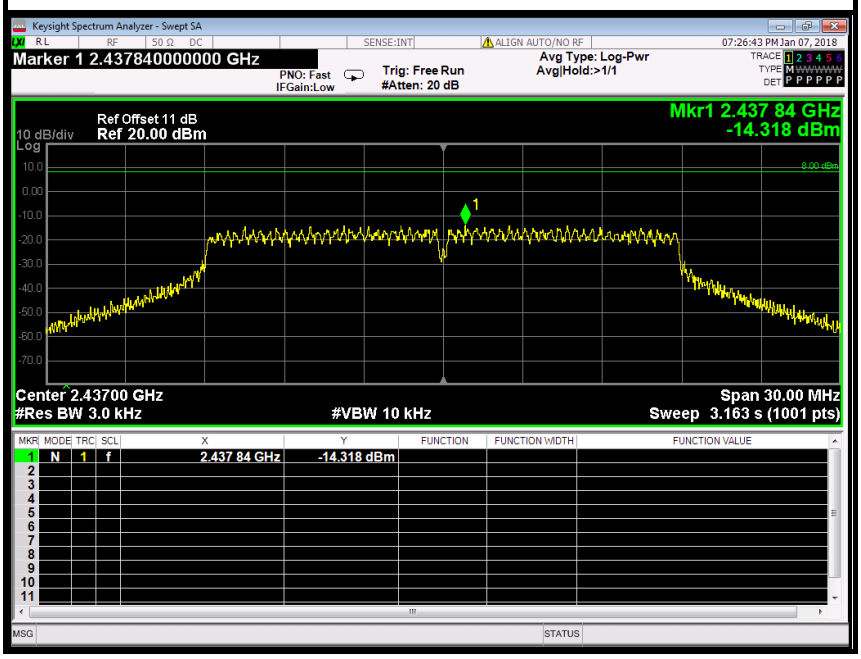
## IEEE 802.11n HT20 MHz mode (antenna 2)

### PPSD (CH Low)




### PPSD (CH Mid)





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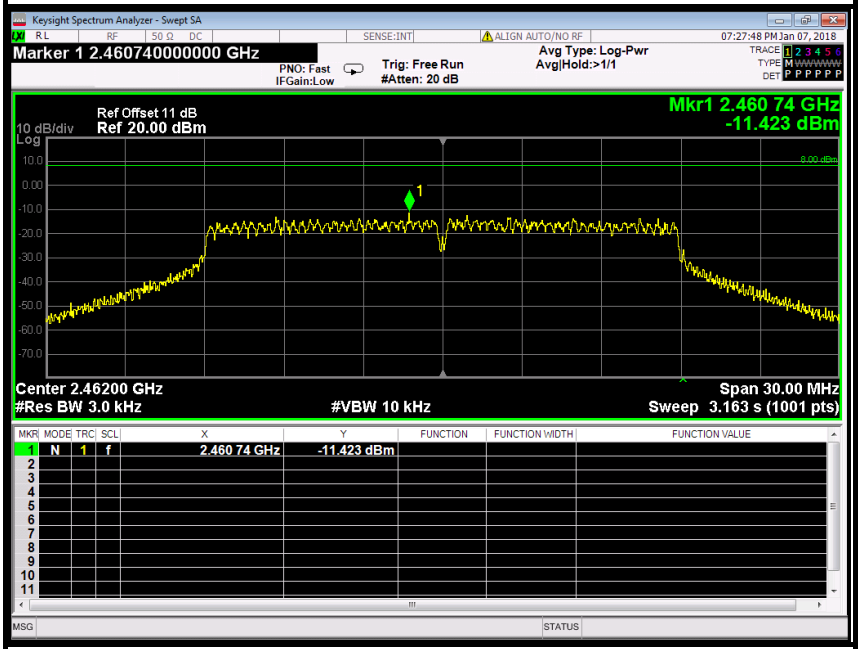
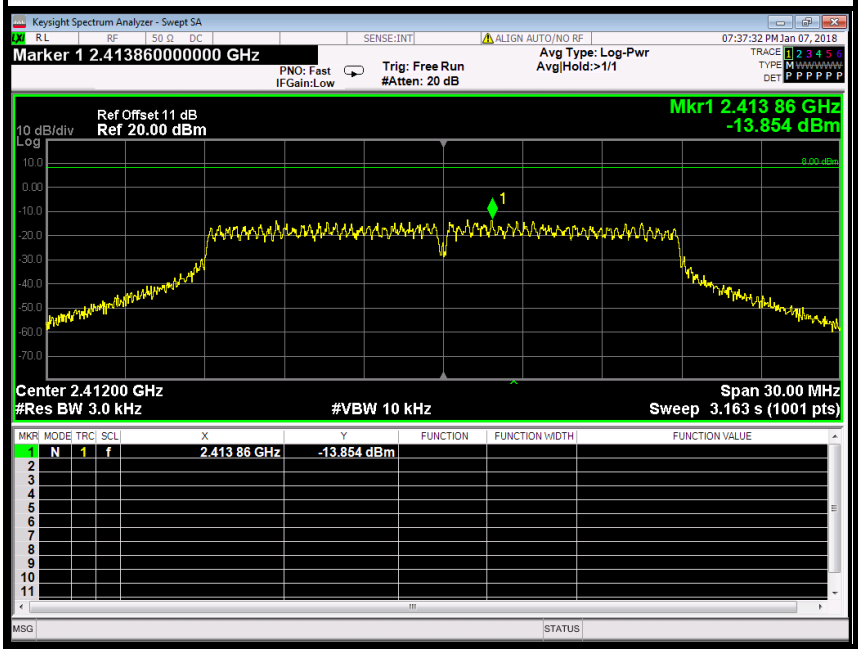
## PPSD (CH High)




## IEEE 802.11n HT20 MHz mode (antenna 3)

## PPSD (CH Low)





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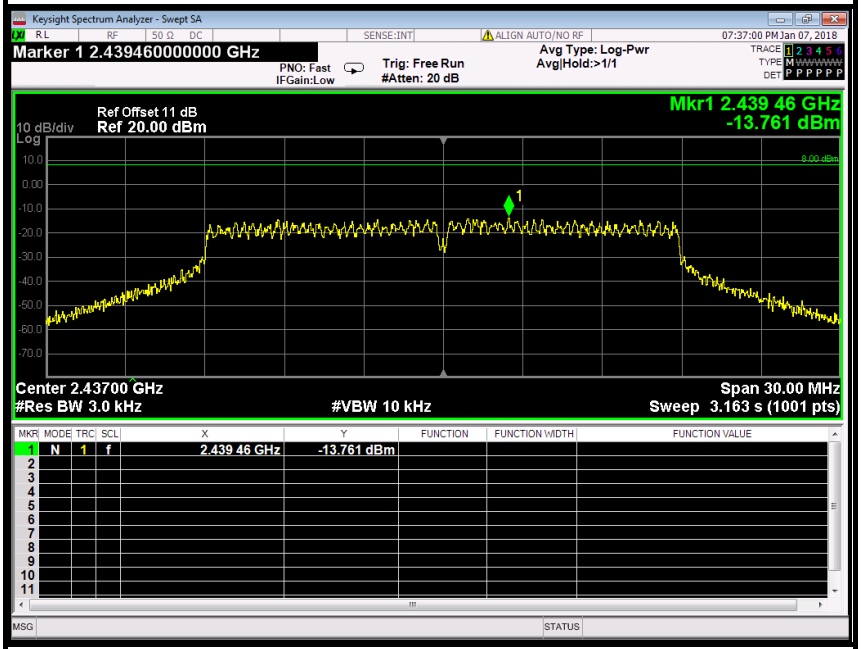
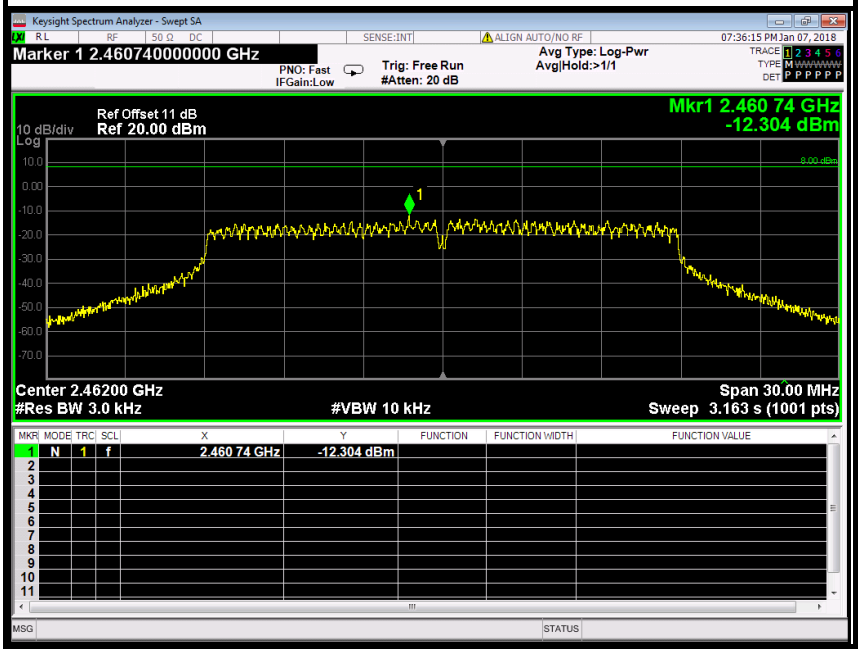
## PPSD (CH Mid)




## PPSD (CH High)





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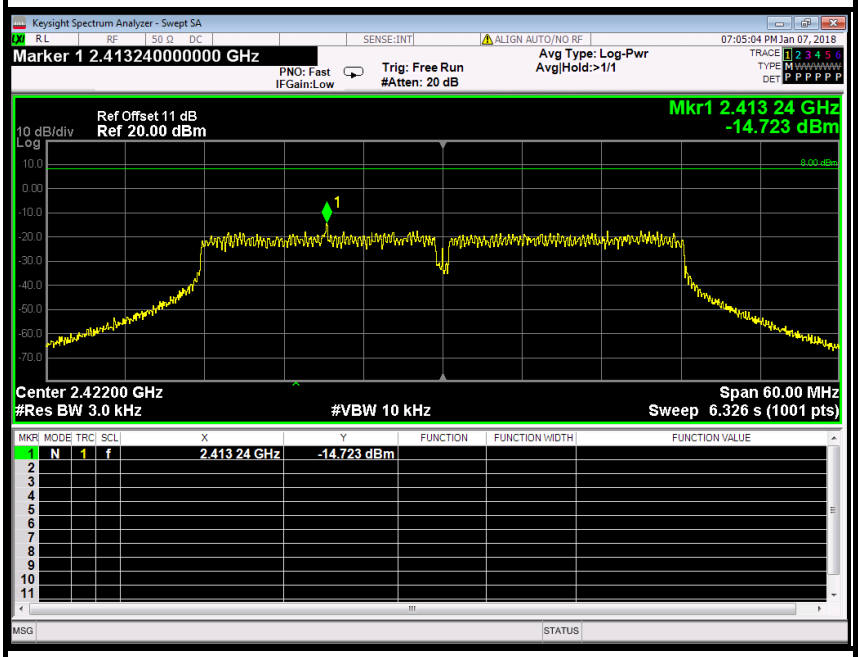
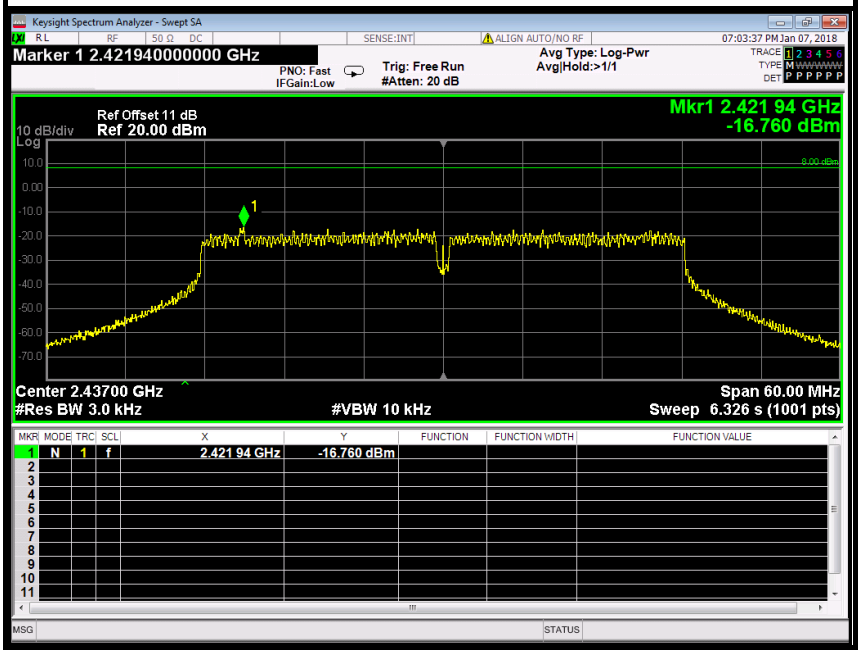
## IEEE 802.11n HT40 MHz mode (antenna 0)

### PPSD (CH Low)




### PPSD (CH Mid)





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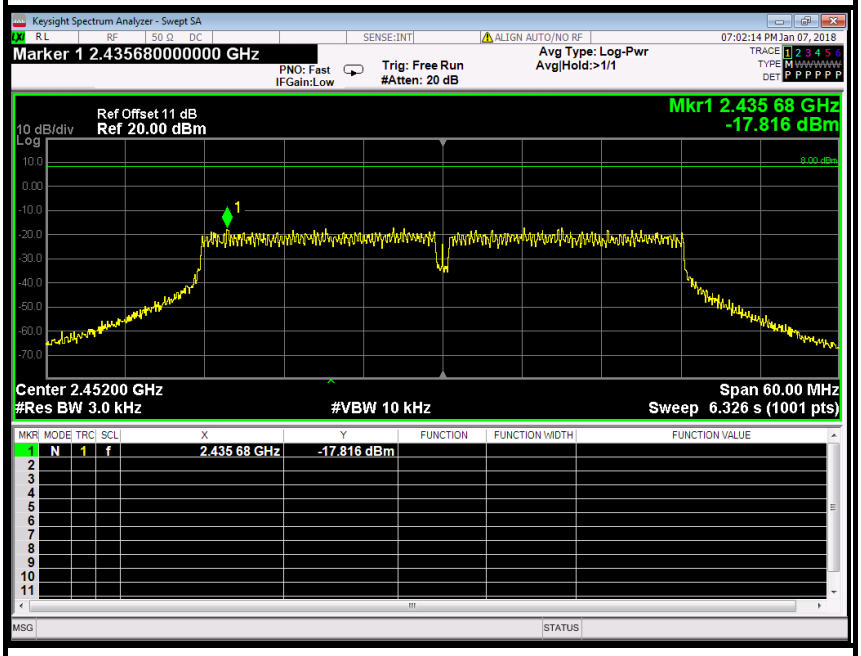
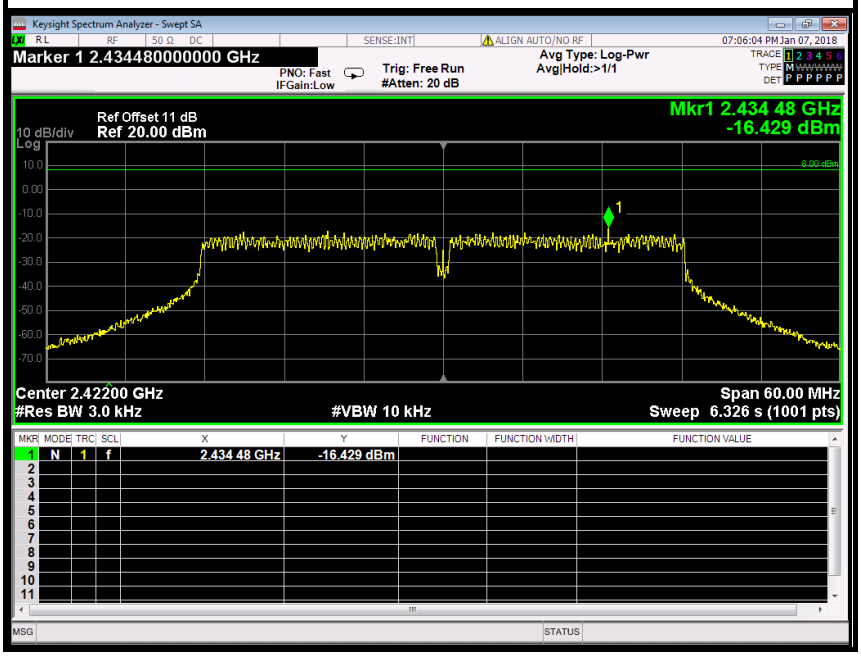
## PPSD (CH High)




## IEEE 802.11n HT40 MHz mode (antenna 1)

## PPSD (CH Low)





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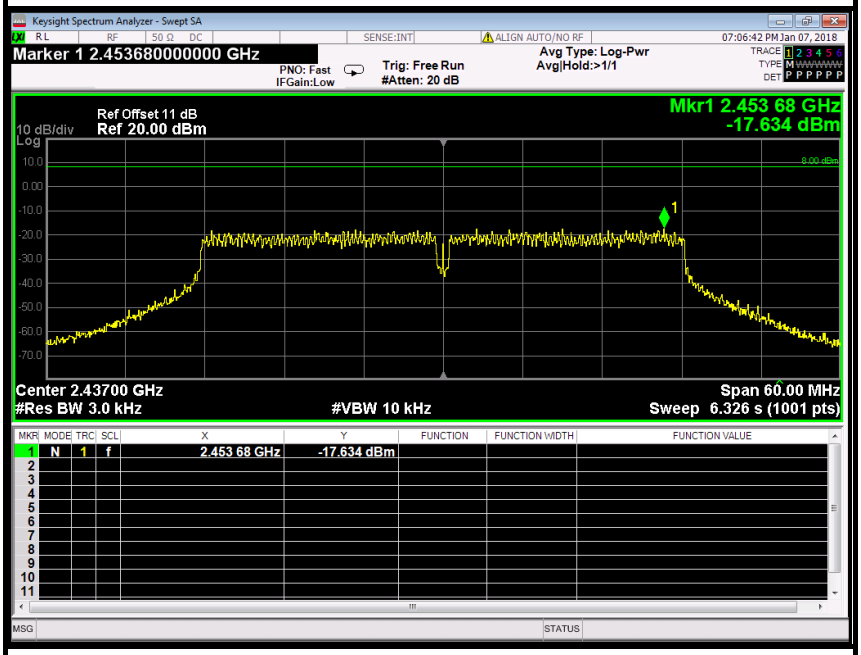
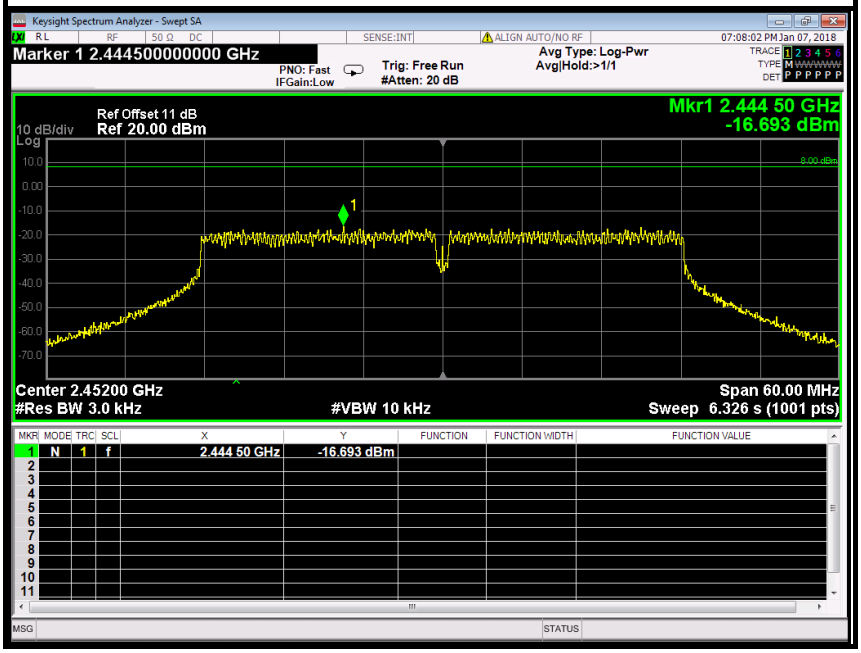
## PPSD (CH Mid)




## PPSD (CH High)





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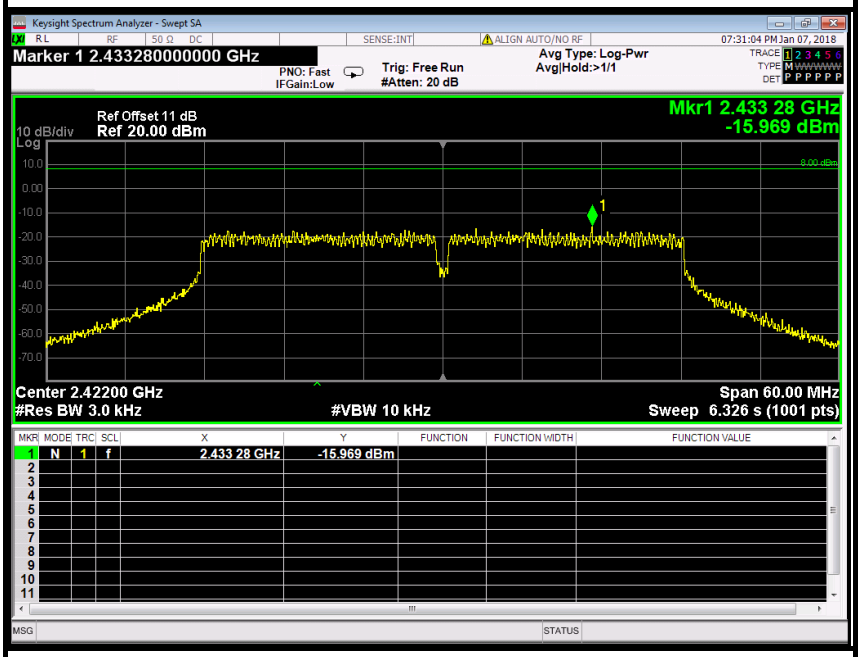
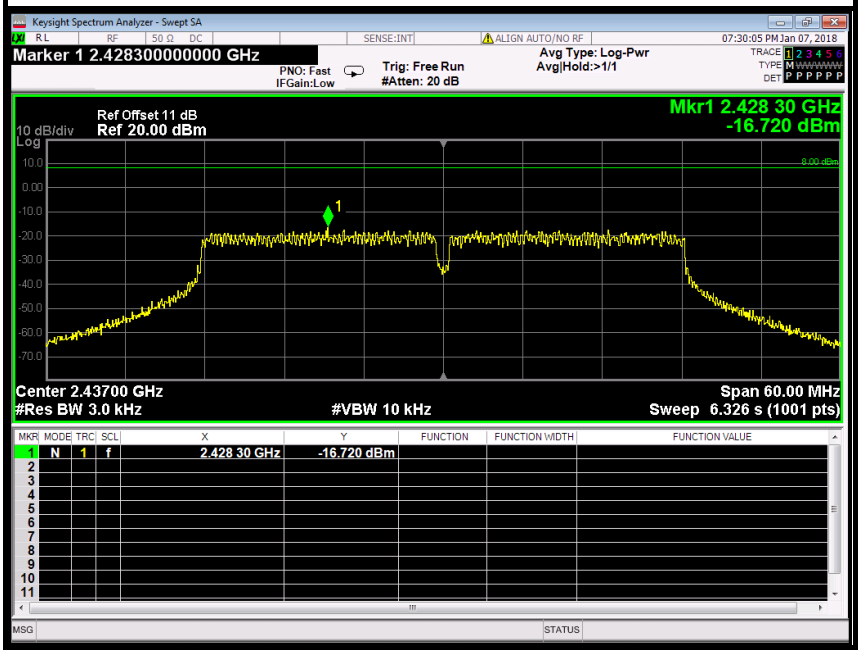
## IEEE 802.11n HT40 MHz mode (antenna 2)

### PPSD (CH Low)




### PPSD (CH Mid)





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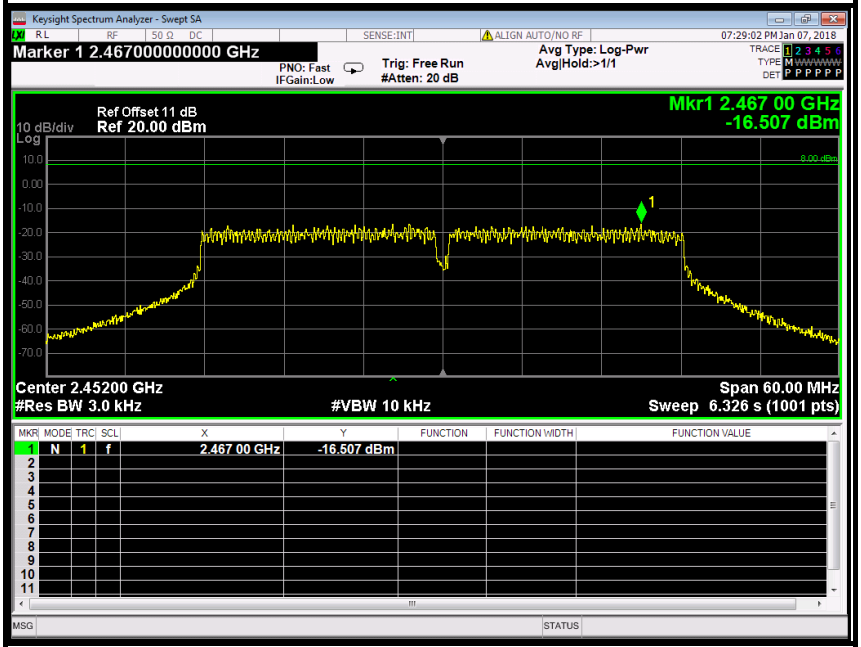
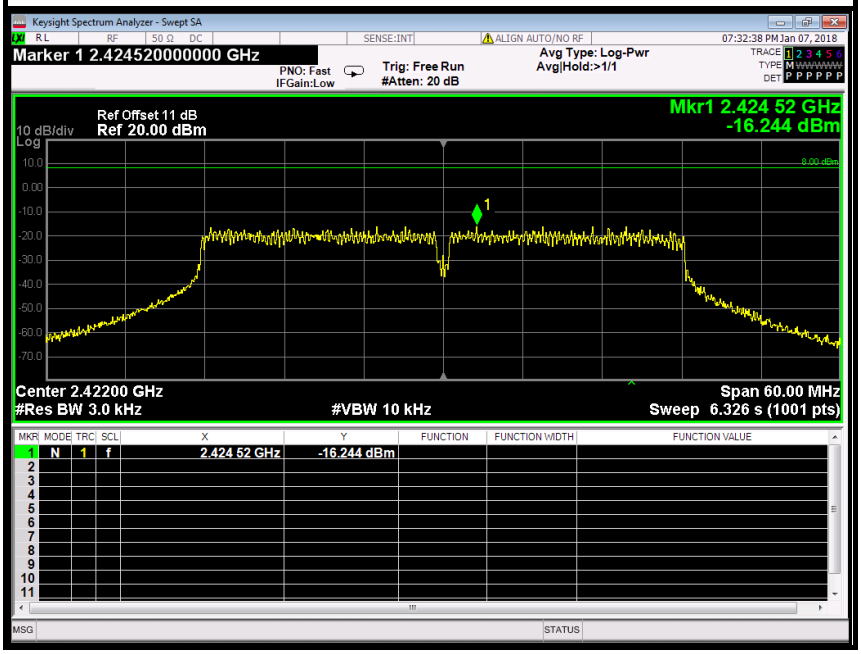
## PPSD (CH High)




## IEEE 802.11n HT40 MHz mode (antenna 3)

## PPSD (CH Low)





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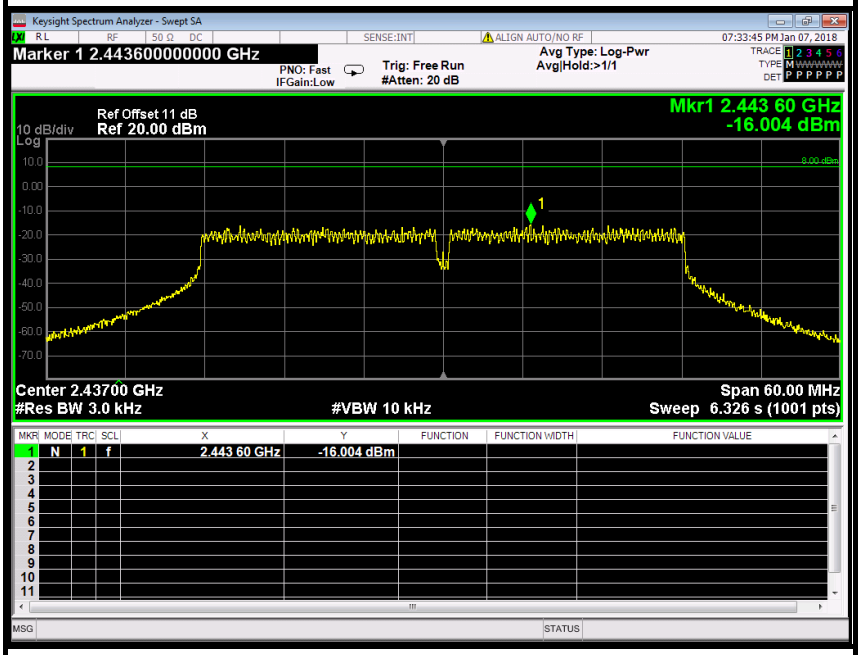
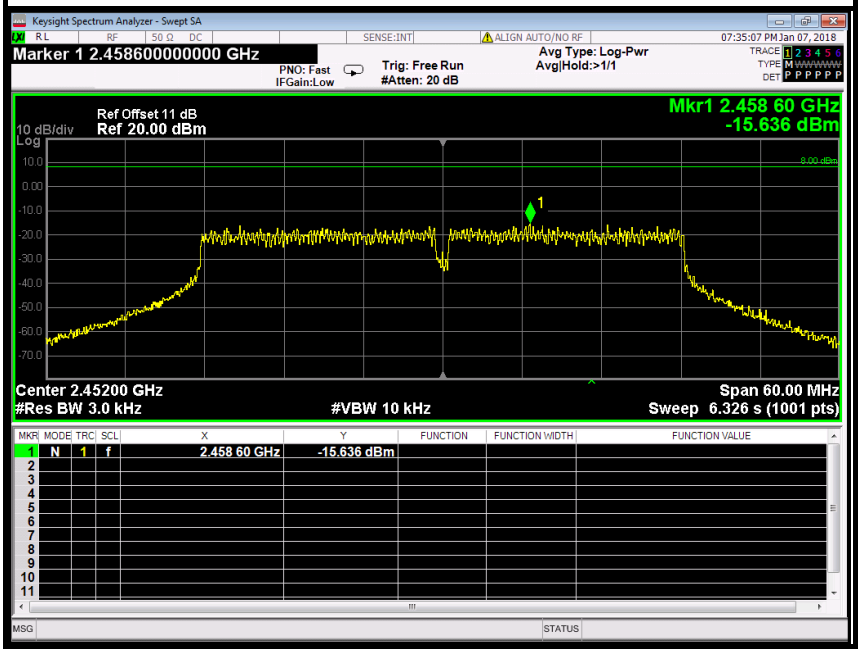
## PPSD (CH Mid)




## PPSD (CH High)





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