## 4.6. Emissions Measurement

### 4.6.1. Limit

30dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|---|---|---|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

### 4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|---|---|
| Attenuation | Auto |
| Span Frequency | 100 MHz |
| RBW / VBW (Emission in restricted band) | 1MHz / 3MHz for Peak,<br>1MHz / 1/T for Average |
| RBW / VBW (30dBc in any 100 kHz bandwidth emission) | 100 kHz / 300 kHz for Peak |

### 4.6.3. Test Procedures

For Radiated band edges Measurement:

1. The test procedure is the same as section 4.5.3.

For Radiated Out of Band Emission Measurement:

1. Test was performed in accordance with KDB558074 D01 v03r03 for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 section 10.1 Unwanted Emissions into Non-Restricted Frequency Bands Measurement Procedure

### 4.6.4. Test Setup Layout

For Radiated band edges Measurement:

This test setup layout is the same as that shown in section 4.5.4.

For Radiated Out of Band Emission Measurement:

This test setup layout is the same as that shown in section 4.5.4.

### 4.6.5. Test Deviation

There is no deviation with the original standard.

### 4.6.6. EUT Operation during Test

For Non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

For Beamforming mode:

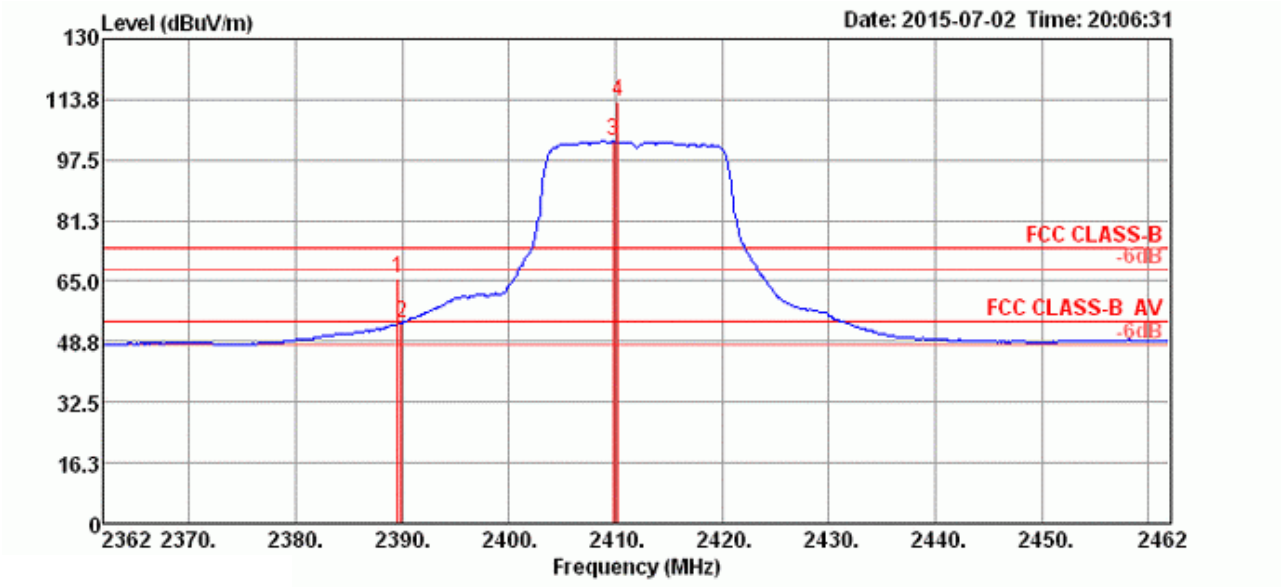
The EUT was programmed to be in beamforming transmitting mode.

## 4.6.7. Test Result of Band Edge and Fundamental Emissions

**<For Radio 1 Non-beamforming Mode>: 1TX, 1S**

| Temperature | 22℃ | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 1 |

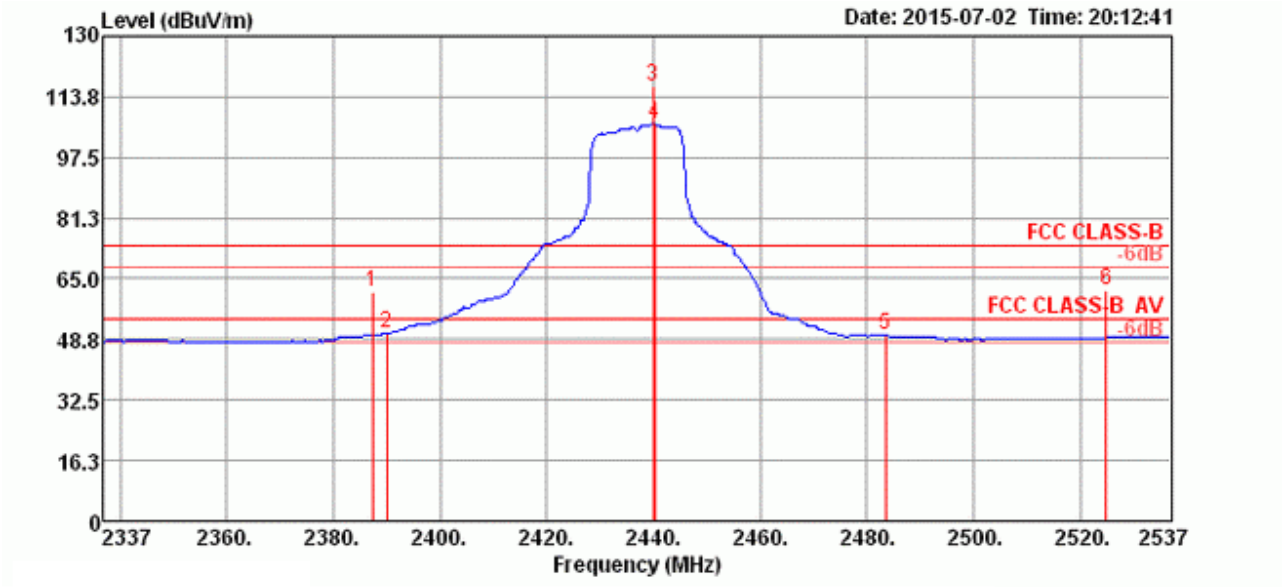
**Channel 1**




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 65.92 | 74.00 | -8.08 | 33.24 | 4.37 | 28.31 | 0.00 | Peak | 236 | 302 | HORIZONTAL |
| 2 | 2389.89 | 53.93 | 54.00 | -0.07 | 21.21 | 4.41 | 28.31 | 0.00 | Average | 236 | 302 | HORIZONTAL |
| 3 | 2409.76 | 102.43 | | | 69.68 | 4.41 | 28.34 | 0.00 | Average | 236 | 302 | HORIZONTAL |
| 4 | 2410.24 | 113.20 | | | 80.45 | 4.41 | 28.34 | 0.00 | Peak | 236 | 302 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2387.32 | 61.45 | 74.00 | -12.55 | 28.77 | 4.37 | 28.31 | 0.00 | Peak | 213 | 298 | HORIZONTAL |
| 2 | 2390.00 | 50.35 | 54.00 | -3.65 | 17.63 | 4.41 | 28.31 | 0.00 | Average | 213 | 298 | HORIZONTAL |
| 3 | 2439.89 | 116.46 | | | 83.61 | 4.44 | 28.41 | 0.00 | Peak | 213 | 298 | HORIZONTAL |
| 4 | 2440.21 | 106.32 | | | 73.47 | 4.44 | 28.41 | 0.00 | Average | 213 | 298 | HORIZONTAL |
| 5 | 2483.50 | 49.65 | 54.00 | -4.35 | 16.67 | 4.51 | 28.47 | 0.00 | Average | 213 | 298 | HORIZONTAL |
| 6 | 2524.82 | 61.65 | 74.00 | -12.35 | 28.46 | 4.58 | 28.61 | 0.00 | Peak | 213 | 298 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

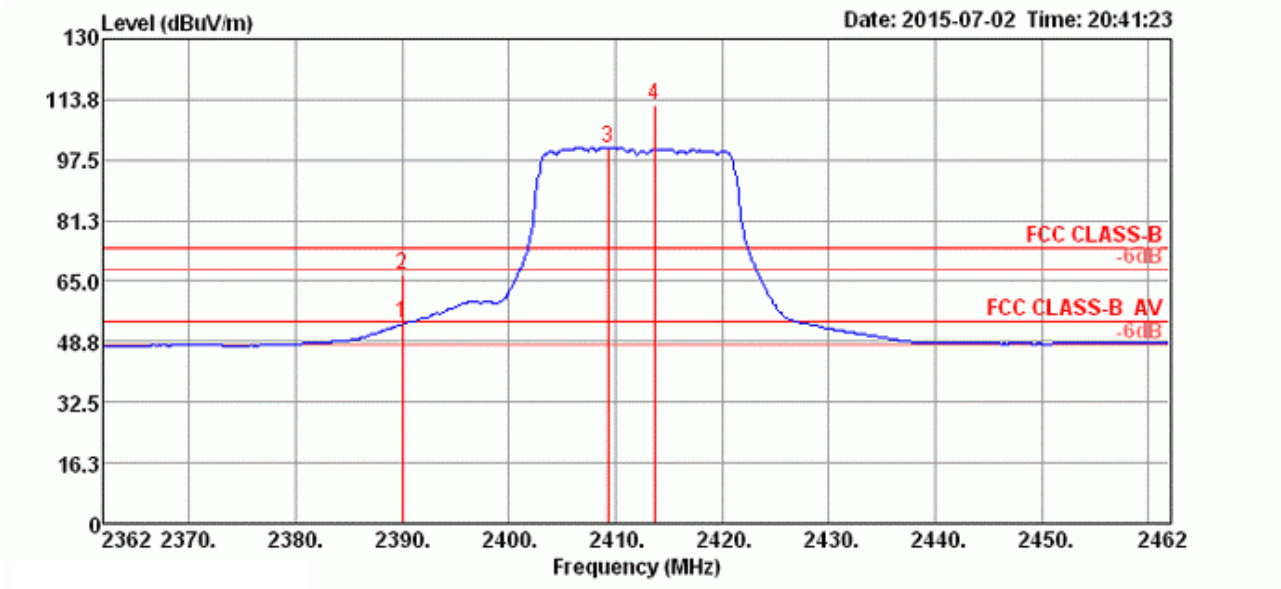
Channel 11


| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2458.64 | 102.34 | | | 69.42 | 4.48 | 28.44 | 0.00 | Average | 205 | 306 | HORIZONTAL |
| 2 | 2458.96 | 113.13 | | | 80.21 | 4.48 | 28.44 | 0.00 | Peak | 205 | 306 | HORIZONTAL |
| 3 | 2483.50 | 53.20 | 54.00 | -0.80 | 20.22 | 4.51 | 28.47 | 0.00 | Average | 205 | 306 | HORIZONTAL |
| 4 | 2483.64 | 65.23 | 74.00 | -8.77 | 32.25 | 4.51 | 28.47 | 0.00 | Peak | 205 | 306 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 |

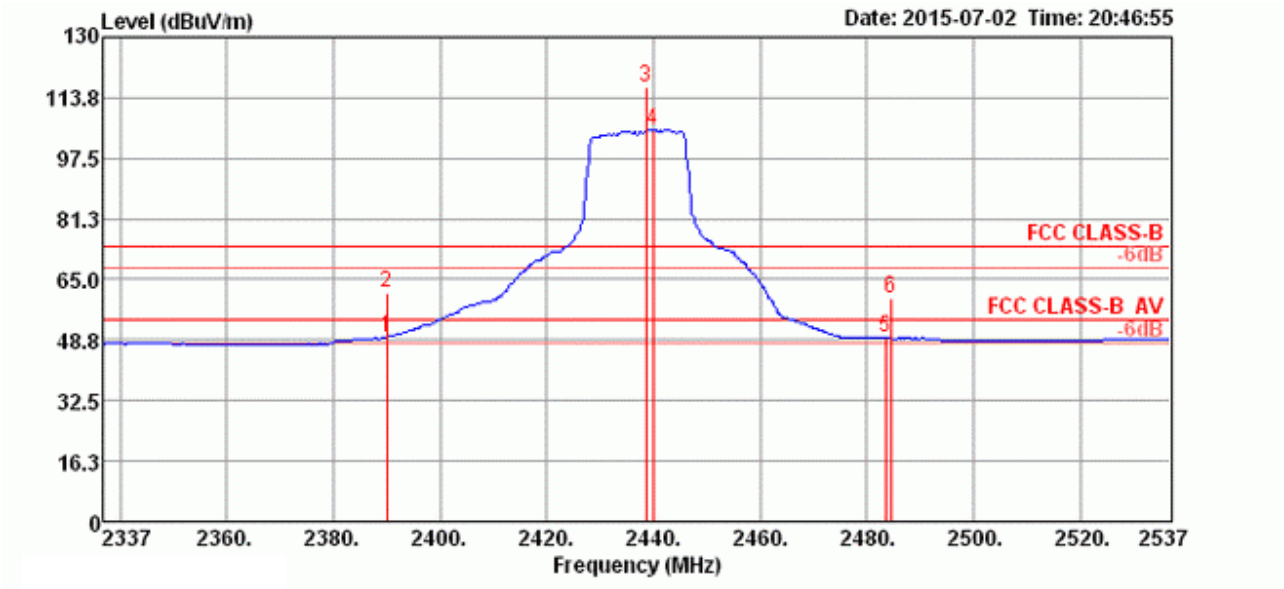
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.63 | 54.00 | -0.37 | 20.91 | 4.41 | 28.31 | 0.00 | Average | 234 | 303 | HORIZONTAL |
| 2 | 2390.00 | 66.61 | 74.00 | -7.39 | 33.89 | 4.41 | 28.31 | 0.00 | Peak | 234 | 303 | HORIZONTAL |
| 3 | 2409.28 | 100.88 | | | 68.13 | 4.41 | 28.34 | 0.00 | Average | 234 | 303 | HORIZONTAL |
| 4 | 2413.60 | 112.06 | | | 79.31 | 4.41 | 28.34 | 0.00 | Peak | 234 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 49.57 | 54.00 | -4.43 | 16.85 | 4.41 | 28.31 | 0.00 | Average | 207 | 302 | HORIZONTAL |
| 2 | 2390.00 | 61.52 | 74.00 | -12.48 | 28.80 | 4.41 | 28.31 | 0.00 | Peak | 207 | 302 | HORIZONTAL |
| 3 | 2438.60 | 116.40 | | | 83.55 | 4.44 | 28.41 | 0.00 | Peak | 207 | 302 | HORIZONTAL |
| 4 | 2439.89 | 105.09 | | | 72.24 | 4.44 | 28.41 | 0.00 | Average | 207 | 302 | HORIZONTAL |
| 5 | 2483.50 | 49.28 | 54.00 | -4.72 | 16.30 | 4.51 | 28.47 | 0.00 | Average | 207 | 302 | HORIZONTAL |
| 6 | 2484.46 | 60.12 | 74.00 | -13.88 | 27.14 | 4.51 | 28.47 | 0.00 | Peak | 207 | 302 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

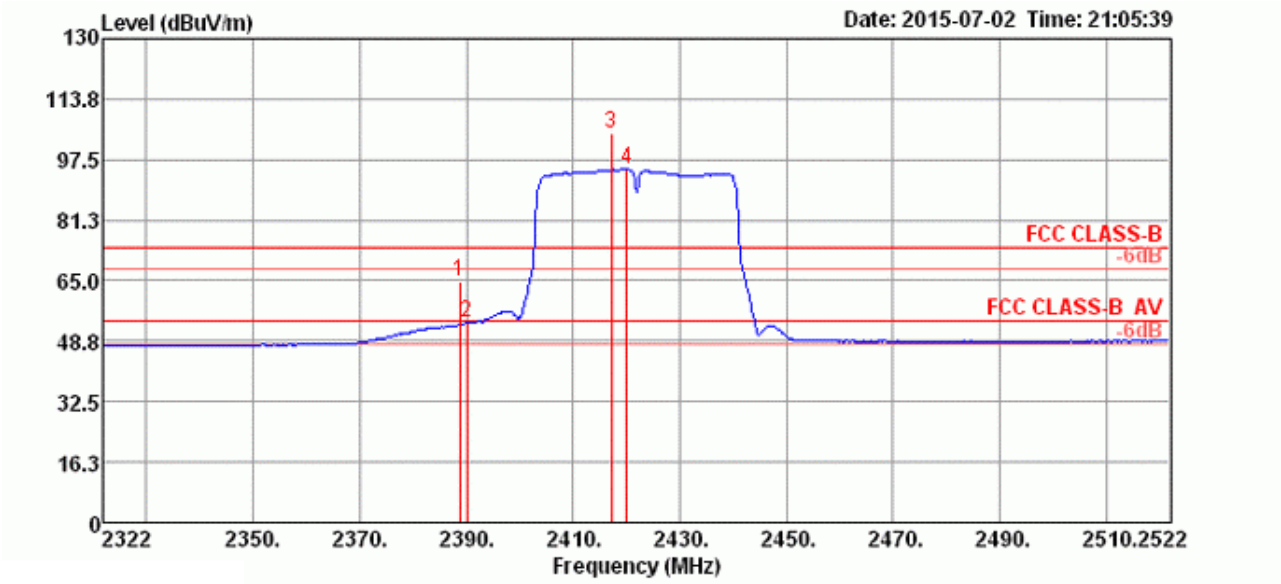
Channel 11


| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2457.67 | 112.12 | | | 79.20 | 4.48 | 28.44 | 0.00 | Peak | 205 | 302 | HORIZONTAL |
| 2 | 2459.12 | 101.09 | | | 68.17 | 4.48 | 28.44 | 0.00 | Average | 205 | 302 | HORIZONTAL |
| 3 | 2483.50 | 53.31 | 54.00 | -0.69 | 20.33 | 4.51 | 28.47 | 0.00 | Average | 205 | 302 | HORIZONTAL |
| 4 | 2483.64 | 65.73 | 74.00 | -8.27 | 32.75 | 4.51 | 28.47 | 0.00 | Peak | 205 | 302 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 |

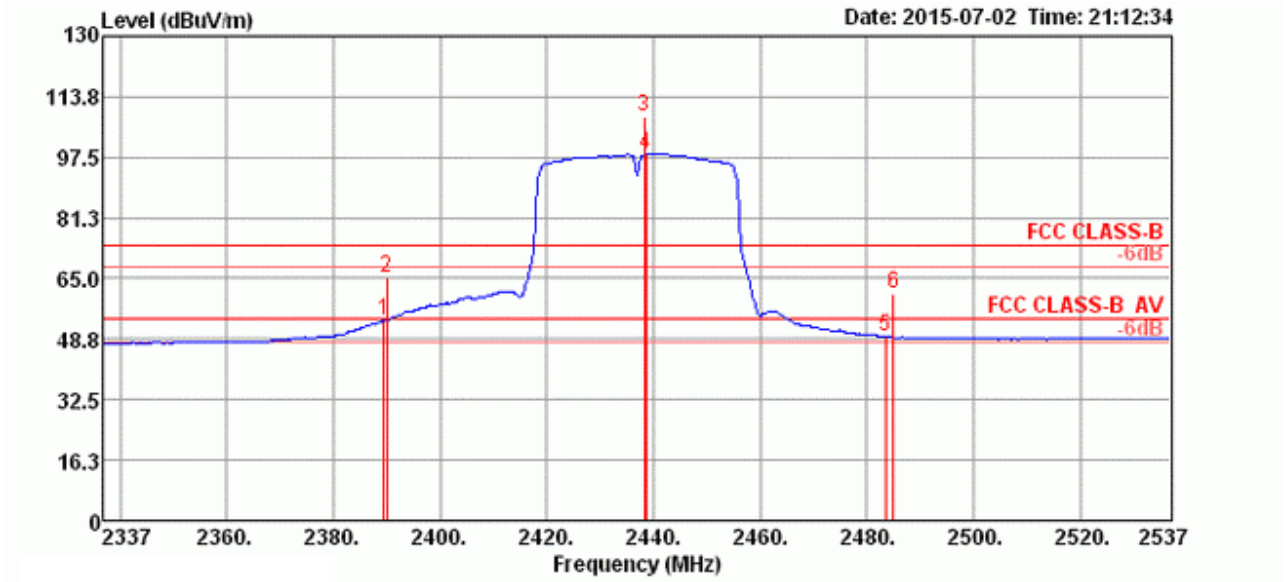
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2388.67 | 64.86 | 74.00 | -9.14 | 32.18 | 4.37 | 28.31 | 0.00 | Peak | 212 | 310 | HORIZONTAL |
| 2 | 2390.00 | 53.49 | 54.00 | -0.51 | 20.77 | 4.41 | 28.31 | 0.00 | Average | 212 | 310 | HORIZONTAL |
| 3 | 2417.19 | 104.70 | | | 71.92 | 4.44 | 28.34 | 0.00 | Peak | 212 | 310 | HORIZONTAL |
| 4 | 2420.08 | 94.95 | | | 62.13 | 4.44 | 28.38 | 0.00 | Average | 212 | 310 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

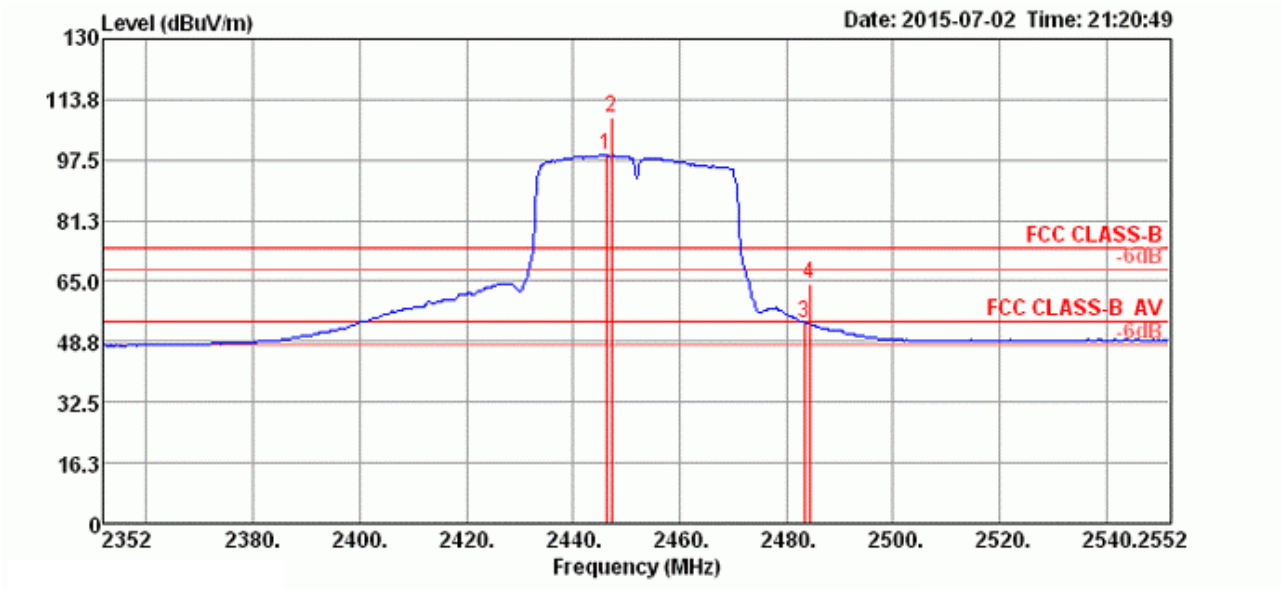
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 53.71 | 54.00 | -0.29 | 21.03 | 4.37 | 28.31 | 0.00 | Average | 187 | 309 | HORIZONTAL |
| 2 | 2390.00 | 65.10 | 74.00 | -8.90 | 32.38 | 4.41 | 28.31 | 0.00 | Peak | 187 | 309 | HORIZONTAL |
| 3 | 2438.28 | 108.24 | | | 75.39 | 4.44 | 28.41 | 0.00 | Peak | 187 | 309 | HORIZONTAL |
| 4 | 2438.60 | 98.46 | | | 65.61 | 4.44 | 28.41 | 0.00 | Average | 187 | 309 | HORIZONTAL |
| 5 | 2483.50 | 49.28 | 54.00 | -4.72 | 16.30 | 4.51 | 28.47 | 0.00 | Average | 187 | 309 | HORIZONTAL |
| 6 | 2485.08 | 60.88 | 74.00 | -13.12 | 27.90 | 4.51 | 28.47 | 0.00 | Peak | 187 | 309 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



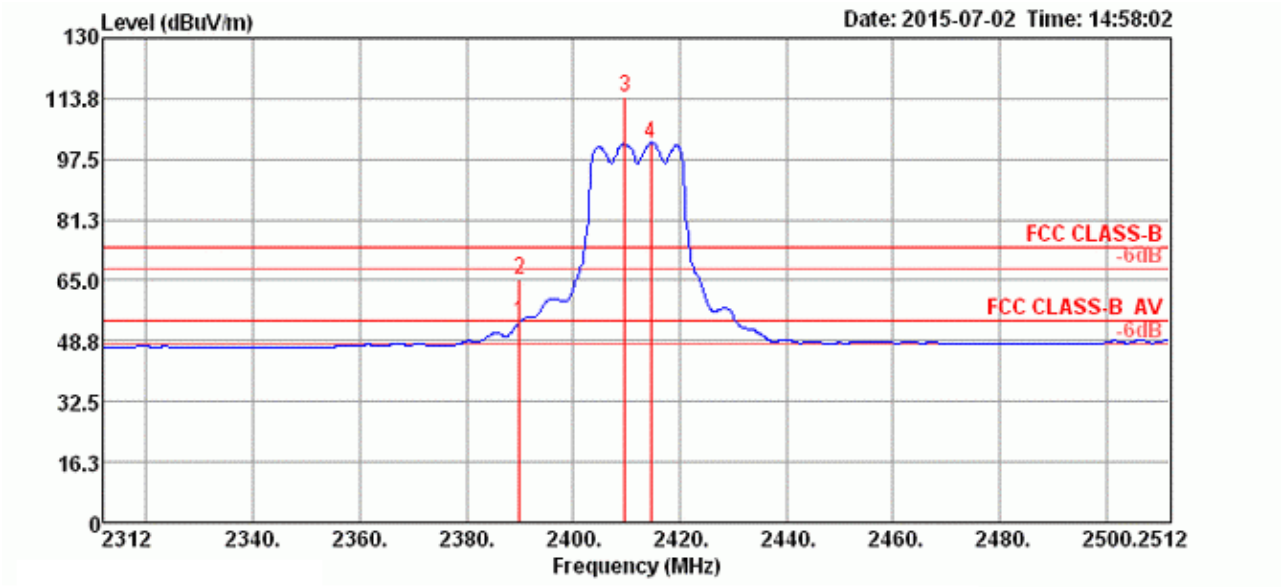

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2446.23 | 98.71 | | | 65.82 | 4.48 | 28.41 | 0.00 | Average | 190 | 313 | HORIZONTAL |
| 2 | 2447.19 | 109.09 | | | 76.20 | 4.48 | 28.41 | 0.00 | Peak | 190 | 313 | HORIZONTAL |
| 3 | 2483.50 | 53.92 | 54.00 | -0.08 | 20.94 | 4.51 | 28.47 | 0.00 | Average | 190 | 313 | HORIZONTAL |
| 4 | 2484.37 | 64.25 | 74.00 | -9.75 | 31.27 | 4.51 | 28.47 | 0.00 | Peak | 190 | 313 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Non-beamforming Mode>: 2TX, 1S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 |

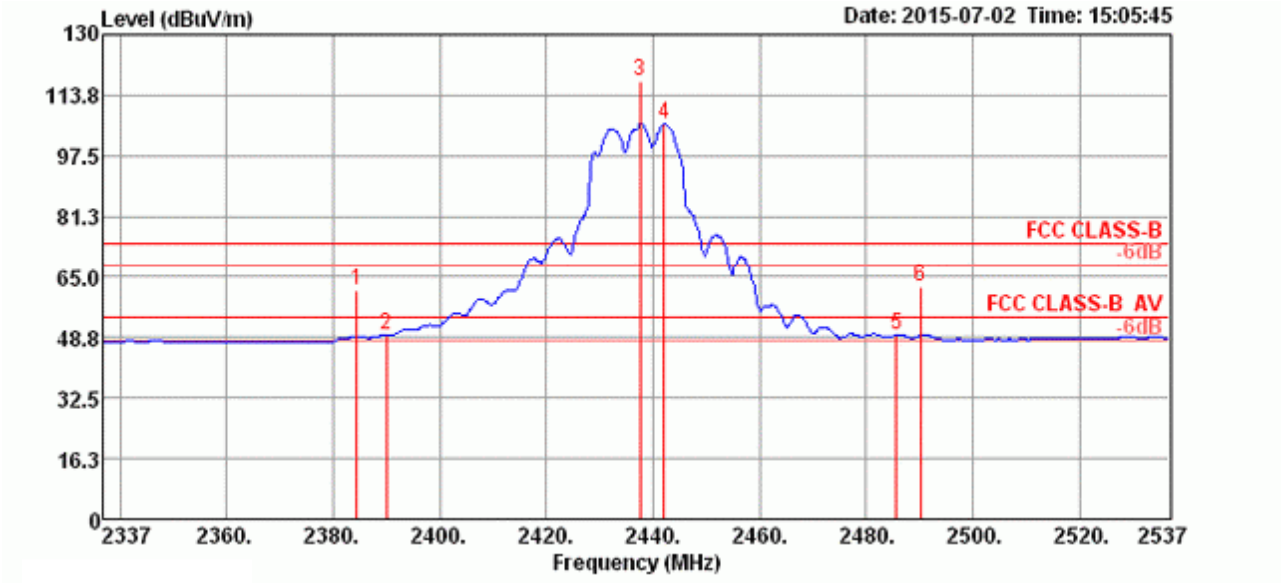
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.58 | 54.00 | -0.42 | 20.86 | 4.41 | 28.31 | 0.00 | Average | 198 | 303 | HORIZONTAL |
| 2 | 2390.00 | 65.34 | 74.00 | -8.66 | 32.62 | 4.41 | 28.31 | 0.00 | Peak | 198 | 303 | HORIZONTAL |
| 3 | 2409.76 | 113.94 | | | 81.19 | 4.41 | 28.34 | 0.00 | Peak | 198 | 303 | HORIZONTAL |
| 4 | 2414.56 | 101.89 | | | 69.14 | 4.41 | 28.34 | 0.00 | Average | 198 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

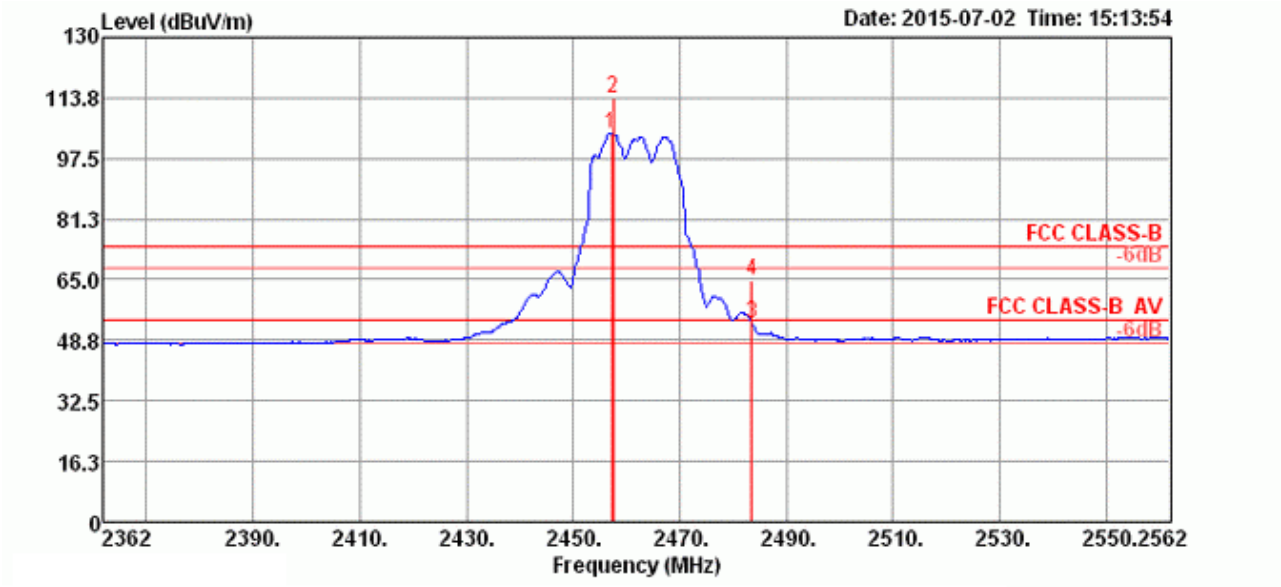
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2384.44 | 61.55 | 74.00 | -12.45 | 28.90 | 4.37 | 28.28 | 0.00 | Peak | 214 | 303 | HORIZONTAL |
| 2 | 2390.00 | 49.44 | 54.00 | -4.56 | 16.72 | 4.41 | 28.31 | 0.00 | Average | 214 | 303 | HORIZONTAL |
| 3 | 2437.64 | 117.69 | | | 84.84 | 4.44 | 28.41 | 0.00 | Peak | 214 | 303 | HORIZONTAL |
| 4 | 2442.13 | 106.02 | | | 73.13 | 4.48 | 28.41 | 0.00 | Average | 214 | 303 | HORIZONTAL |
| 5 | 2485.72 | 49.57 | 54.00 | -4.43 | 16.59 | 4.51 | 28.47 | 0.00 | Average | 214 | 303 | HORIZONTAL |
| 6 | 2490.21 | 62.25 | 74.00 | -11.75 | 29.24 | 4.51 | 28.50 | 0.00 | Peak | 214 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

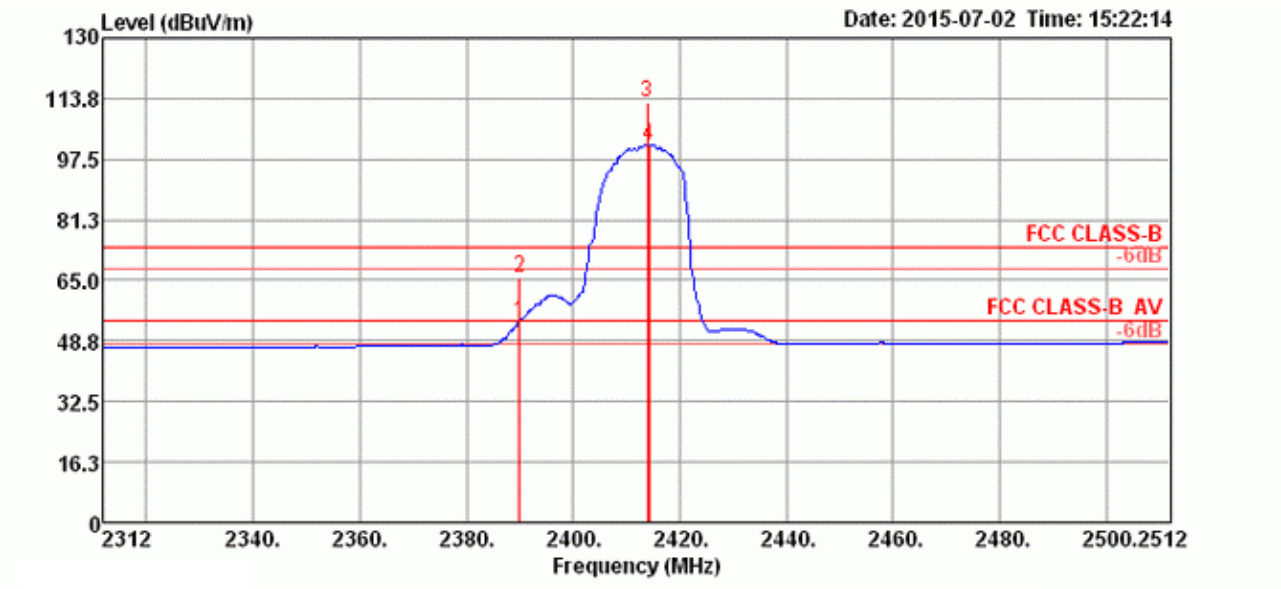



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2457.19 | 104.08 | | | 71.16 | 4.48 | 28.44 | 0.00 | Average | 210 | 304 | HORIZONTAL |
| 2 | 2457.51 | 113.49 | | | 80.57 | 4.48 | 28.44 | 0.00 | Peak | 210 | 304 | HORIZONTAL |
| 3 | 2483.50 | 53.21 | 54.00 | -0.79 | 20.23 | 4.51 | 28.47 | 0.00 | Average | 210 | 304 | HORIZONTAL |
| 4 | 2483.50 | 64.85 | 74.00 | -9.15 | 31.87 | 4.51 | 28.47 | 0.00 | Peak | 210 | 304 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 |

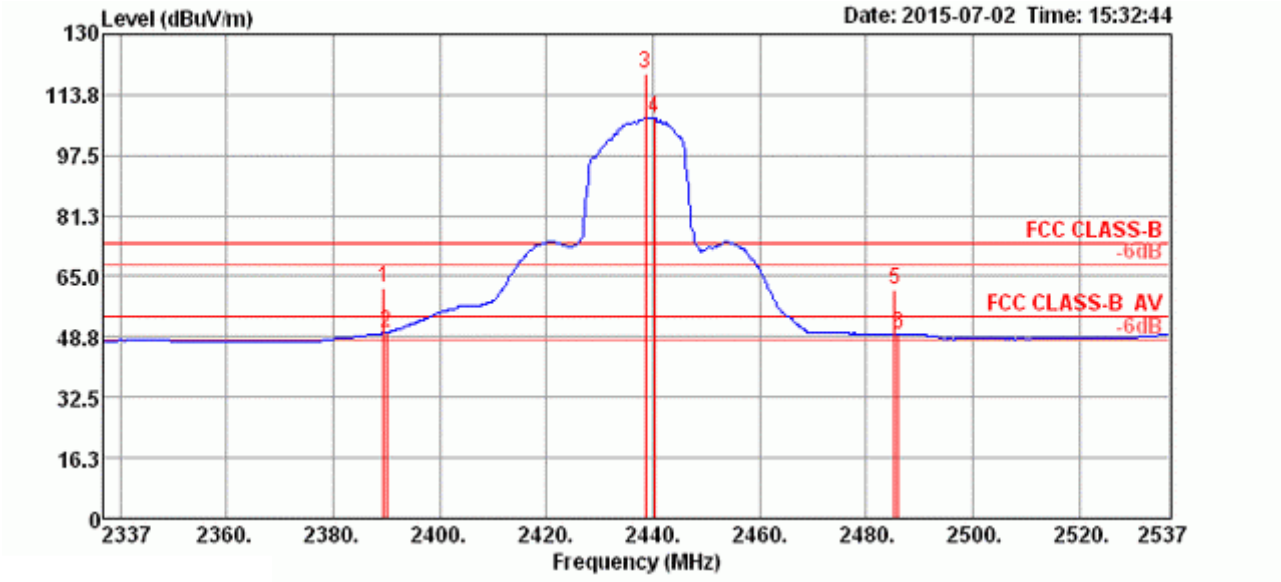
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.91 | 54.00 | -0.09 | 21.19 | 4.41 | 28.31 | 0.00 | Average | 199 | 64 | HORIZONTAL |
| 2 | 2390.00 | 65.69 | 74.00 | -8.31 | 32.97 | 4.41 | 28.31 | 0.00 | Peak | 199 | 64 | HORIZONTAL |
| 3 | 2413.92 | 112.85 | | | 80.10 | 4.41 | 28.34 | 0.00 | Peak | 199 | 64 | HORIZONTAL |
| 4 | 2414.24 | 101.33 | | | 68.58 | 4.41 | 28.34 | 0.00 | Average | 199 | 64 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

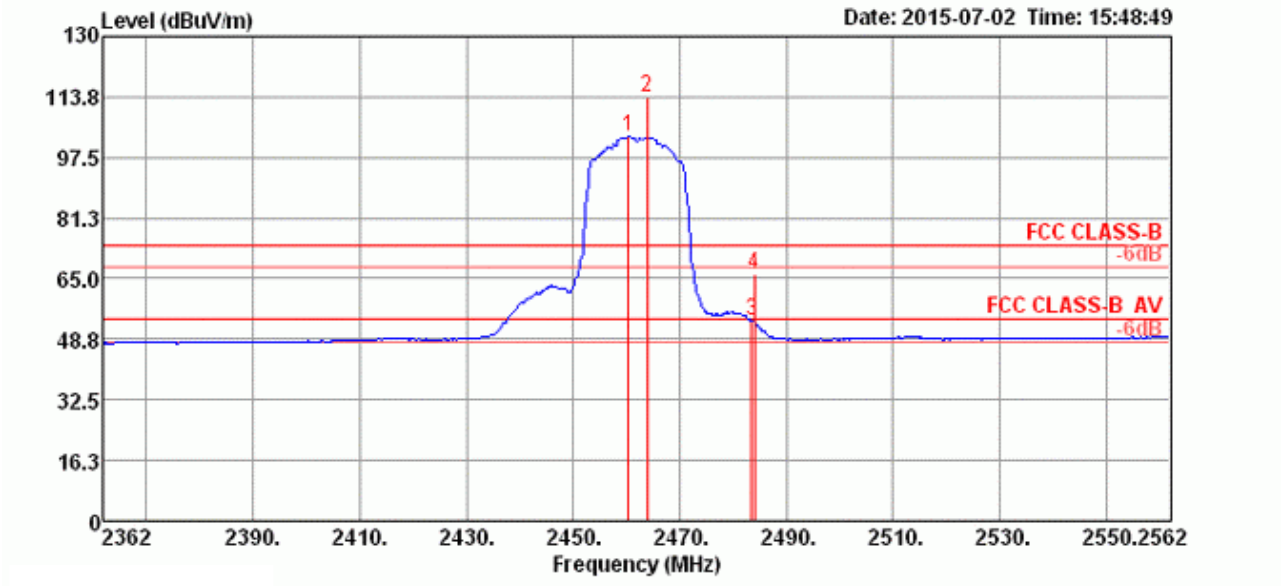
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 62.05 | 74.00 | -11.95 | 29.37 | 4.37 | 28.31 | 0.00 | Peak | 216 | 305 | HORIZONTAL |
| 2 | 2390.00 | 49.91 | 54.00 | -4.09 | 17.19 | 4.41 | 28.31 | 0.00 | Average | 216 | 305 | HORIZONTAL |
| 3 | 2438.60 | 119.53 | | | 86.68 | 4.44 | 28.41 | 0.00 | Peak | 216 | 305 | HORIZONTAL |
| 4 | 2440.21 | 107.60 | | | 74.75 | 4.44 | 28.41 | 0.00 | Average | 216 | 305 | HORIZONTAL |
| 5 | 2485.40 | 61.38 | 74.00 | -12.62 | 28.40 | 4.51 | 28.47 | 0.00 | Peak | 216 | 305 | HORIZONTAL |
| 6 | 2486.04 | 49.51 | 54.00 | -4.49 | 16.53 | 4.51 | 28.47 | 0.00 | Average | 216 | 305 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

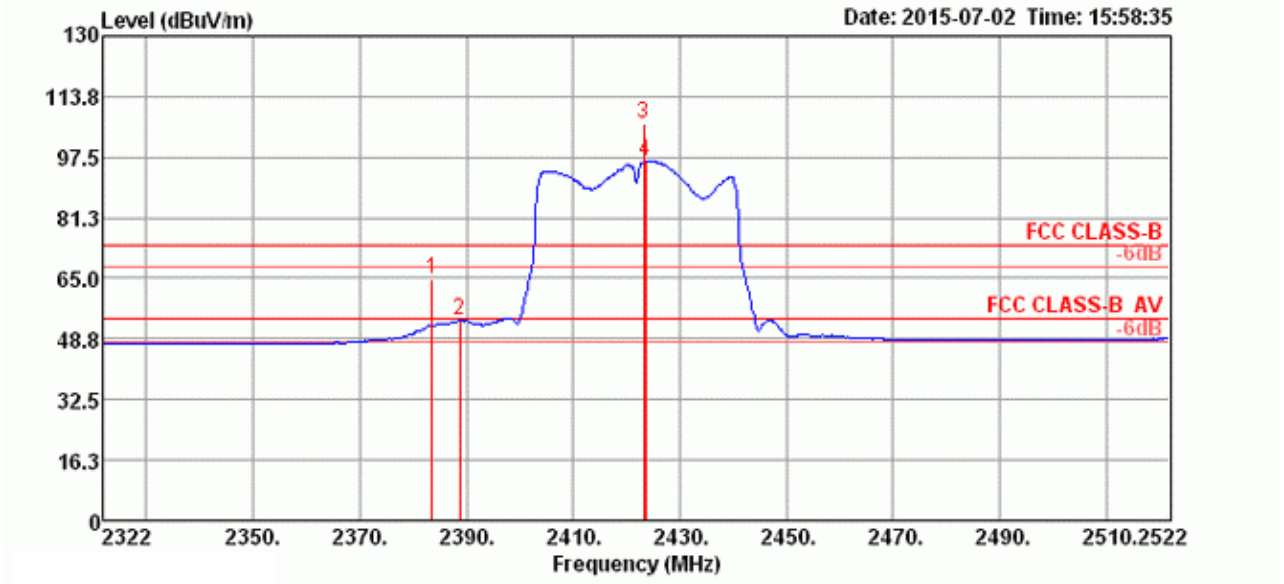



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2460.40 | 102.97 | | | 70.05 | 4.48 | 28.44 | 0.00 | Average | 206 | 310 | HORIZONTAL |
| 2 | 2463.92 | 113.89 | | | 80.97 | 4.48 | 28.44 | 0.00 | Peak | 206 | 310 | HORIZONTAL |
| 3 | 2483.50 | 53.58 | 54.00 | -0.42 | 20.60 | 4.51 | 28.47 | 0.00 | Average | 206 | 310 | HORIZONTAL |
| 4 | 2484.12 | 66.04 | 74.00 | -7.96 | 33.06 | 4.51 | 28.47 | 0.00 | Peak | 206 | 310 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 |

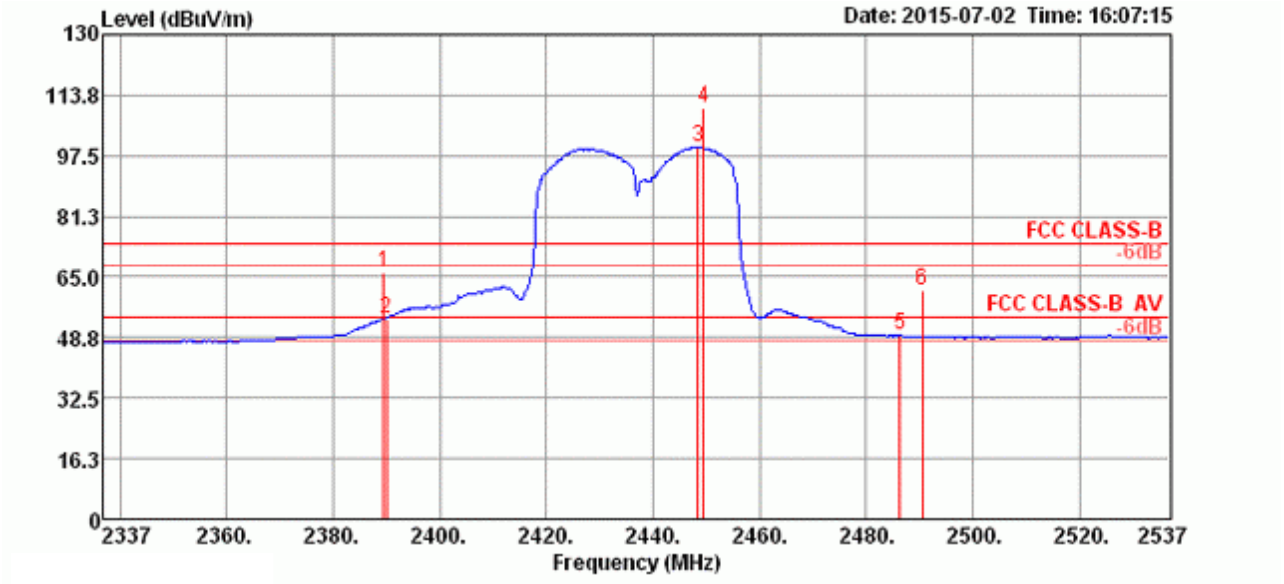
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2383.54 | 64.78 | 74.00 | -9.22 | 32.13 | 4.37 | 28.28 | 0.00 | Peak | 199 | 306 | HORIZONTAL |
| 2 | 2388.67 | 53.64 | 54.00 | -0.36 | 20.96 | 4.37 | 28.31 | 0.00 | Average | 199 | 306 | HORIZONTAL |
| 3 | 2423.28 | 106.56 | | | 73.74 | 4.44 | 28.38 | 0.00 | Peak | 199 | 306 | HORIZONTAL |
| 4 | 2423.60 | 96.56 | | | 63.74 | 4.44 | 28.38 | 0.00 | Average | 199 | 306 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

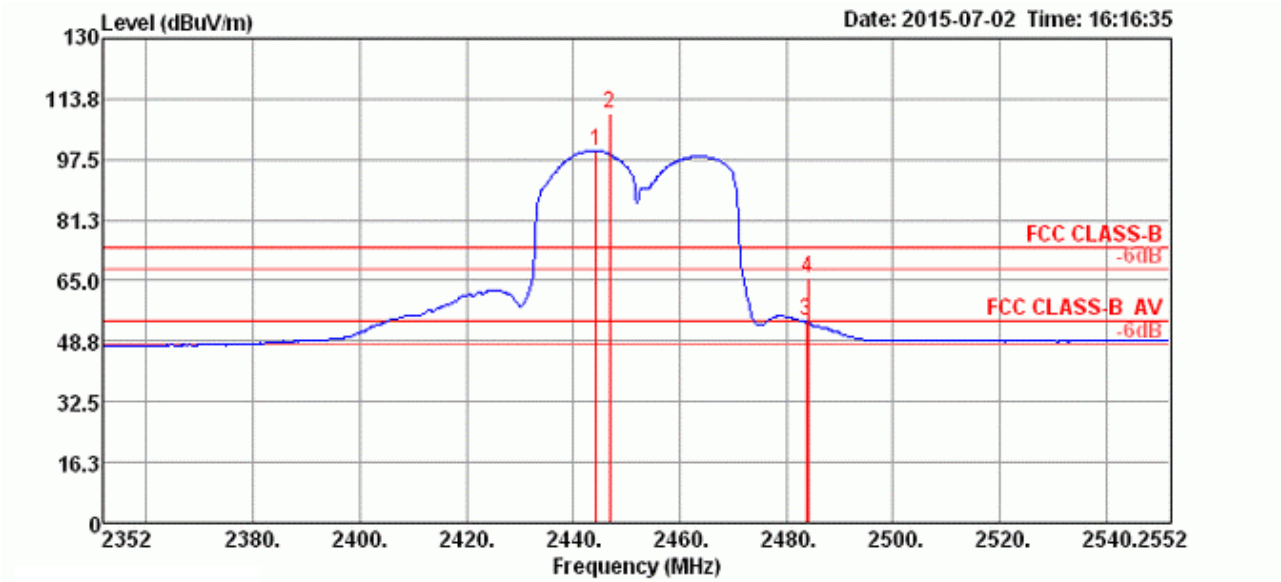
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 66.36 | 74.00 | -7.64 | 33.68 | 4.37 | 28.31 | 0.00 | Peak | 217 | 308 | HORIZONTAL |
| 2 | 2390.00 | 53.90 | 54.00 | -0.10 | 21.18 | 4.41 | 28.31 | 0.00 | Average | 217 | 308 | HORIZONTAL |
| 3 | 2448.54 | 99.67 | | | 66.78 | 4.48 | 28.41 | 0.00 | Average | 217 | 308 | HORIZONTAL |
| 4 | 2449.50 | 110.12 | | | 77.23 | 4.48 | 28.41 | 0.00 | Peak | 217 | 308 | HORIZONTAL |
| 5 | 2486.36 | 49.25 | 54.00 | -4.75 | 16.27 | 4.51 | 28.47 | 0.00 | Average | 217 | 308 | HORIZONTAL |
| 6 | 2490.53 | 61.40 | 74.00 | -12.60 | 28.39 | 4.51 | 28.50 | 0.00 | Peak | 217 | 308 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



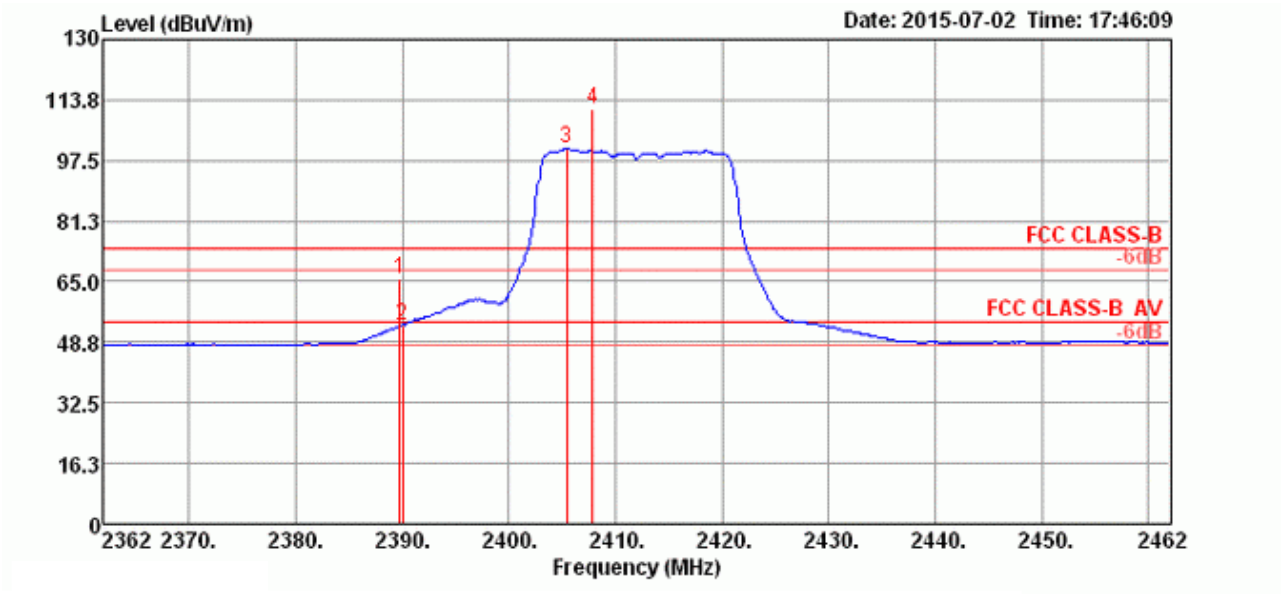

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2444.31 | 99.86 | | | 66.97 | 4.48 | 28.41 | 0.00 | Average | 214 | 306 | HORIZONTAL |
| 2 | 2446.87 | 109.94 | | | 77.05 | 4.48 | 28.41 | 0.00 | Peak | 214 | 306 | HORIZONTAL |
| 3 | 2483.73 | 53.97 | 54.00 | -0.03 | 20.99 | 4.51 | 28.47 | 0.00 | Average | 214 | 306 | HORIZONTAL |
| 4 | 2484.05 | 65.68 | 74.00 | -8.32 | 32.70 | 4.51 | 28.47 | 0.00 | Peak | 214 | 306 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Non-beamforming Mode>: 2TX, 2S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 |

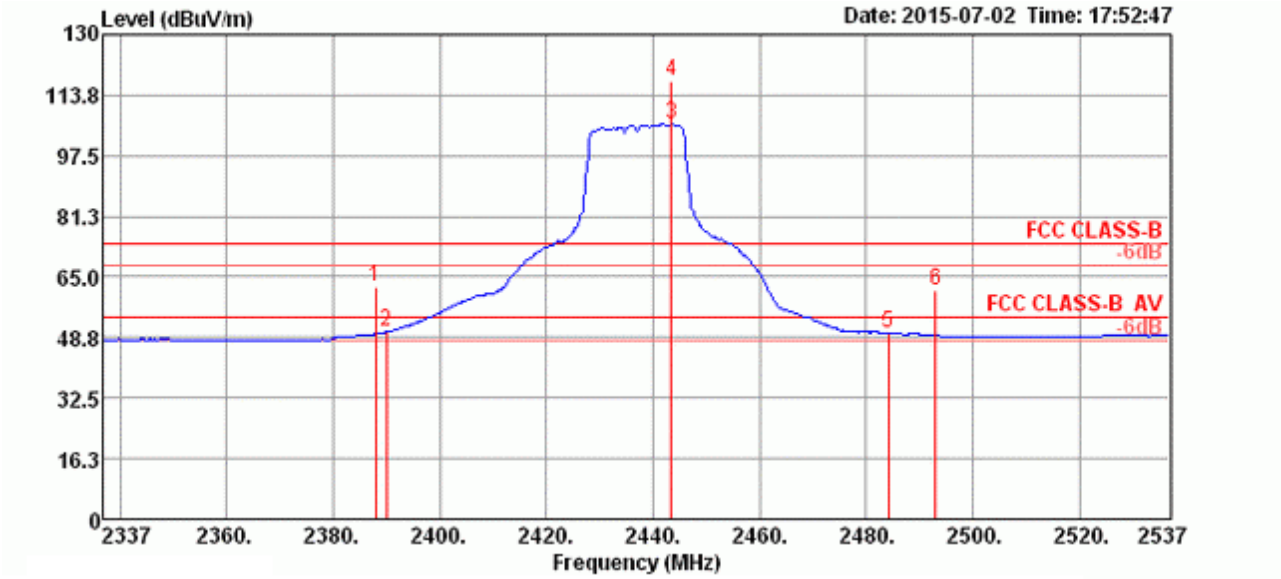
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.72 | 65.88 | 74.00 | -8.12 | 33.20 | 4.37 | 28.31 | 0.00 | Peak | 194 | 304 | HORIZONTAL |
| 2 | 2390.00 | 53.34 | 54.00 | -0.66 | 20.62 | 4.41 | 28.31 | 0.00 | Average | 194 | 304 | HORIZONTAL |
| 3 | 2405.43 | 100.82 | | | 68.07 | 4.41 | 28.34 | 0.00 | Average | 194 | 304 | HORIZONTAL |
| 4 | 2407.83 | 111.12 | | | 78.37 | 4.41 | 28.34 | 0.00 | Peak | 194 | 304 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

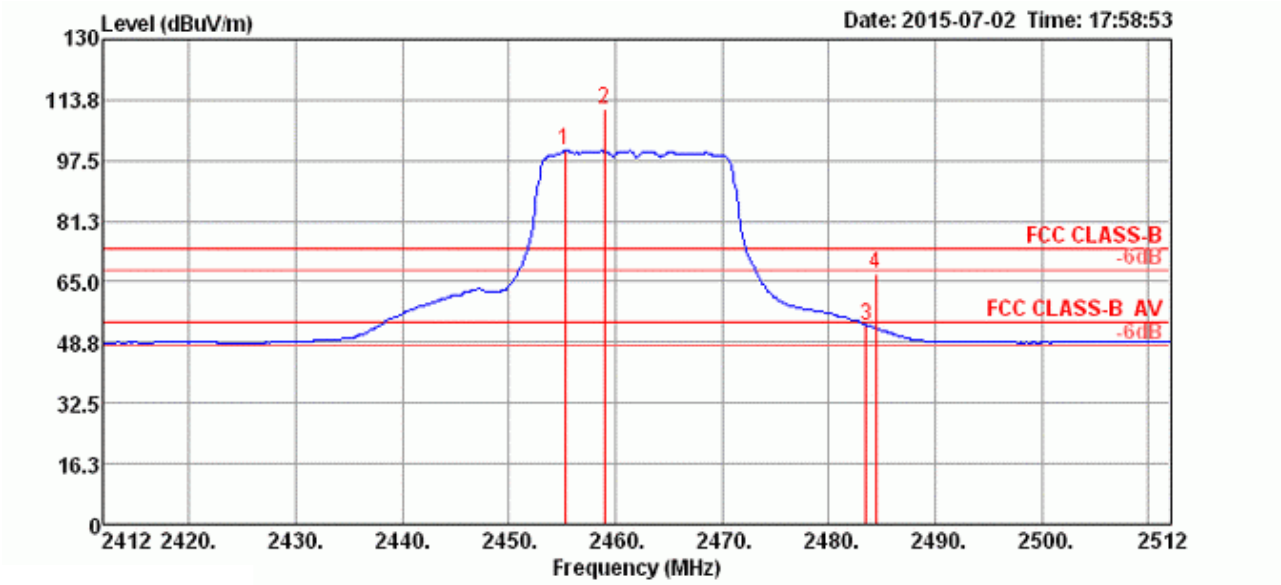
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2387.96 | 62.14 | 74.00 | -11.86 | 29.46 | 4.37 | 28.31 | 0.00 | Peak | 210 | 299 | HORIZONTAL |
| 2 | 2390.00 | 50.16 | 54.00 | -3.84 | 17.44 | 4.41 | 28.31 | 0.00 | Average | 210 | 299 | HORIZONTAL |
| 3 | 2443.41 | 106.16 | | | 73.27 | 4.48 | 28.41 | 0.00 | Average | 210 | 299 | HORIZONTAL |
| 4 | 2443.41 | 117.53 | | | 84.64 | 4.48 | 28.41 | 0.00 | Peak | 210 | 299 | HORIZONTAL |
| 5 | 2484.12 | 49.92 | 54.00 | -4.08 | 16.94 | 4.51 | 28.47 | 0.00 | Average | 210 | 299 | HORIZONTAL |
| 6 | 2493.09 | 61.34 | 74.00 | -12.66 | 28.29 | 4.55 | 28.50 | 0.00 | Peak | 210 | 299 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

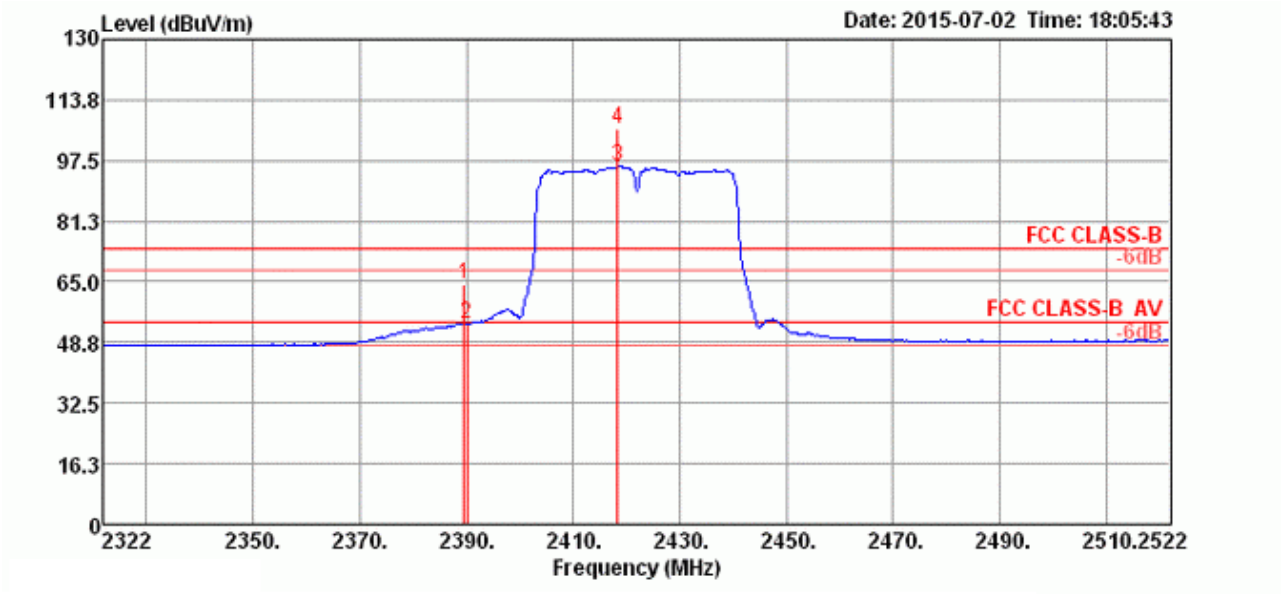



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2455.27 | 100.22 | | | 67.30 | 4.48 | 28.44 | 0.00 | Average | 167 | 315 | HORIZONTAL |
| 2 | 2458.96 | 111.46 | | | 78.54 | 4.48 | 28.44 | 0.00 | Peak | 167 | 315 | HORIZONTAL |
| 3 | 2483.50 | 53.30 | 54.00 | -0.70 | 20.32 | 4.51 | 28.47 | 0.00 | Average | 167 | 315 | HORIZONTAL |
| 4 | 2484.44 | 67.12 | 74.00 | -6.88 | 34.14 | 4.51 | 28.47 | 0.00 | Peak | 167 | 315 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 |

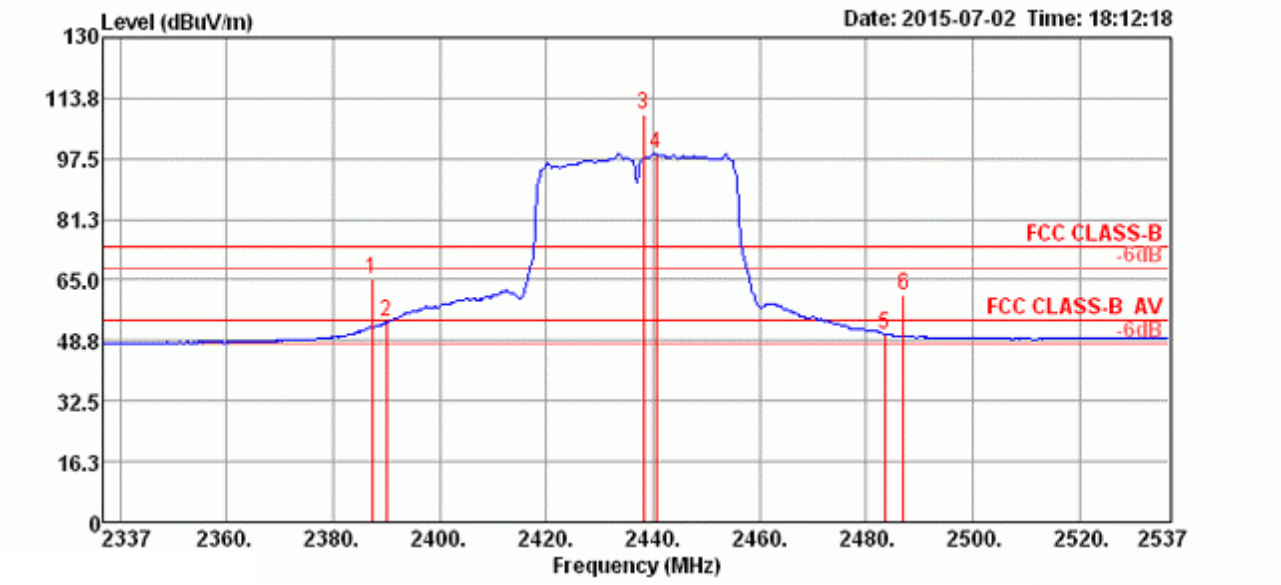
**Channel 3**




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.63 | 64.45 | 74.00 | -9.55 | 31.77 | 4.37 | 28.31 | 0.00 | Peak | 212 | 311 | HORIZONTAL |
| 2 | 2390.00 | 53.57 | 54.00 | -0.43 | 20.85 | 4.41 | 28.31 | 0.00 | Average | 212 | 311 | HORIZONTAL |
| 3 | 2418.47 | 95.95 | 54.00 | | | 4.44 | 28.34 | 0.00 | Average | 212 | 311 | HORIZONTAL |
| 4 | 2418.47 | 106.08 | 74.00 | | | 4.44 | 28.34 | 0.00 | Peak | 212 | 311 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

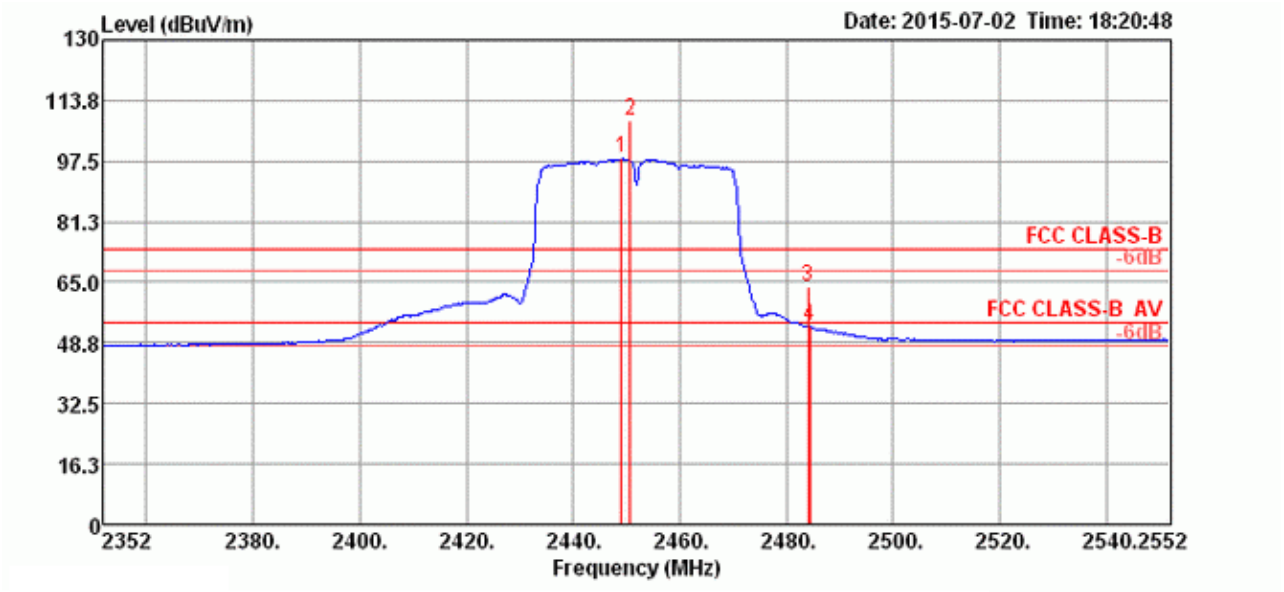
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2387.32 | 65.13 | 74.00 | -8.87 | 32.45 | 4.37 | 28.31 | 0.00 | Peak | 207 | 303 | HORIZONTAL |
| 2 | 2390.00 | 53.72 | 54.00 | -0.28 | 21.00 | 4.41 | 28.31 | 0.00 | Average | 207 | 303 | HORIZONTAL |
| 3 | 2438.28 | 109.19 | | | 76.34 | 4.44 | 28.41 | 0.00 | Peak | 207 | 303 | HORIZONTAL |
| 4 | 2440.53 | 99.00 | | | 66.15 | 4.44 | 28.41 | 0.00 | Average | 207 | 303 | HORIZONTAL |
| 5 | 2483.50 | 50.45 | 54.00 | -3.55 | 17.47 | 4.51 | 28.47 | 0.00 | Average | 207 | 303 | HORIZONTAL |
| 6 | 2487.00 | 61.11 | 74.00 | -12.89 | 28.13 | 4.51 | 28.47 | 0.00 | Peak | 207 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



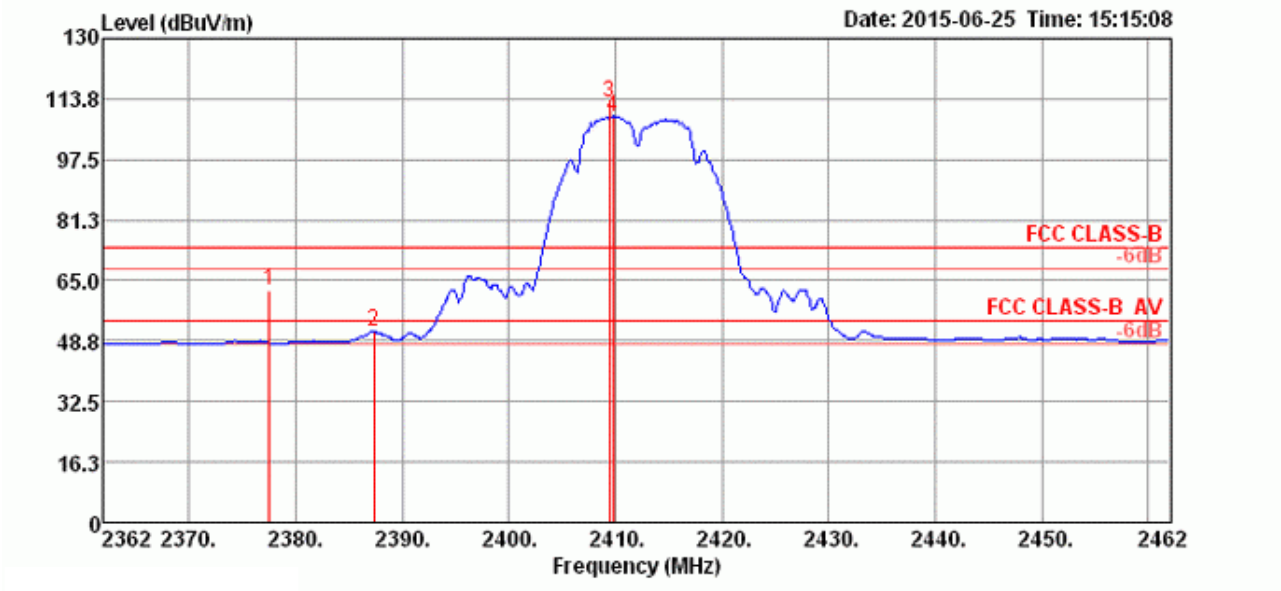

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2449.12 | 98.12 | | | 65.23 | 4.48 | 28.41 | 0.00 | Average | 211 | 306 | HORIZONTAL |
| 2 | 2450.72 | 108.25 | | | 75.36 | 4.48 | 28.41 | 0.00 | Peak | 211 | 306 | HORIZONTAL |
| 3 | 2484.05 | 64.02 | 74.00 | -9.98 | 31.04 | 4.51 | 28.47 | 0.00 | Peak | 211 | 306 | HORIZONTAL |
| 4 | 2484.37 | 53.25 | 54.00 | -0.75 | 20.27 | 4.51 | 28.47 | 0.00 | Average | 211 | 306 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Non-beamforming Mode>: 3TX, 1S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11b CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

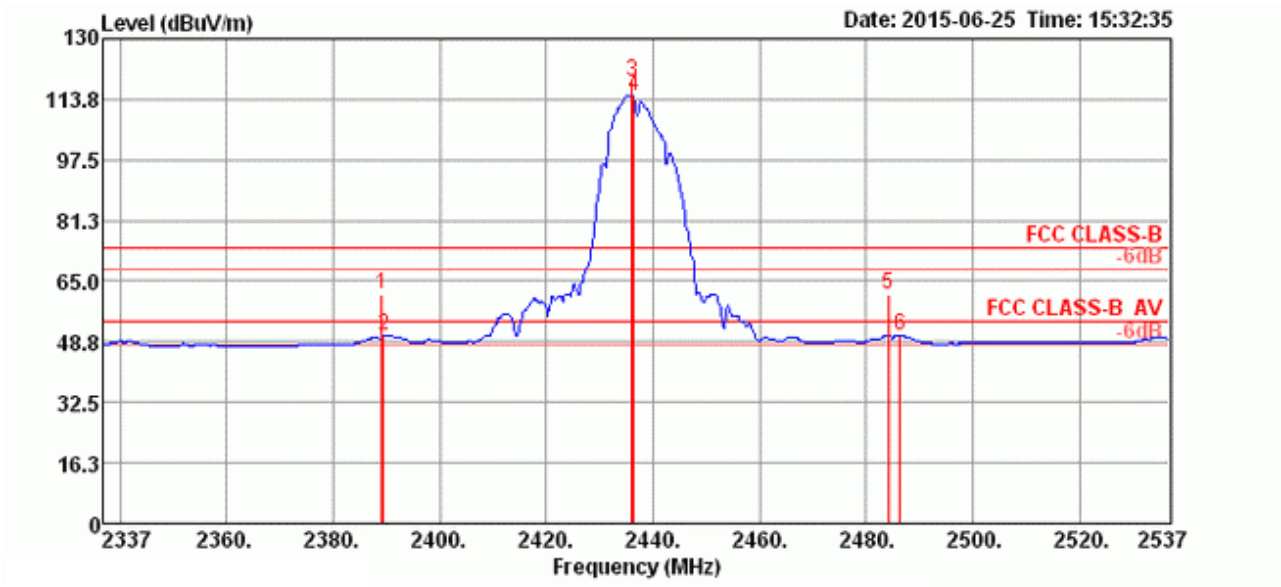
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2377.55 | 62.27 | 74.00 | -11.73 | 29.62 | 4.37 | 28.28 | 0.00 | Peak | 195 | 56 | HORIZONTAL |
| 2 | 2387.32 | 51.34 | 54.00 | -2.66 | 18.66 | 4.37 | 28.31 | 0.00 | Average | 195 | 56 | HORIZONTAL |
| 3 | 2409.44 | 112.97 | | | 80.22 | 4.41 | 28.34 | 0.00 | Peak | 195 | 56 | HORIZONTAL |
| 4 | 2409.76 | 109.11 | | | 76.36 | 4.41 | 28.34 | 0.00 | Average | 195 | 56 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

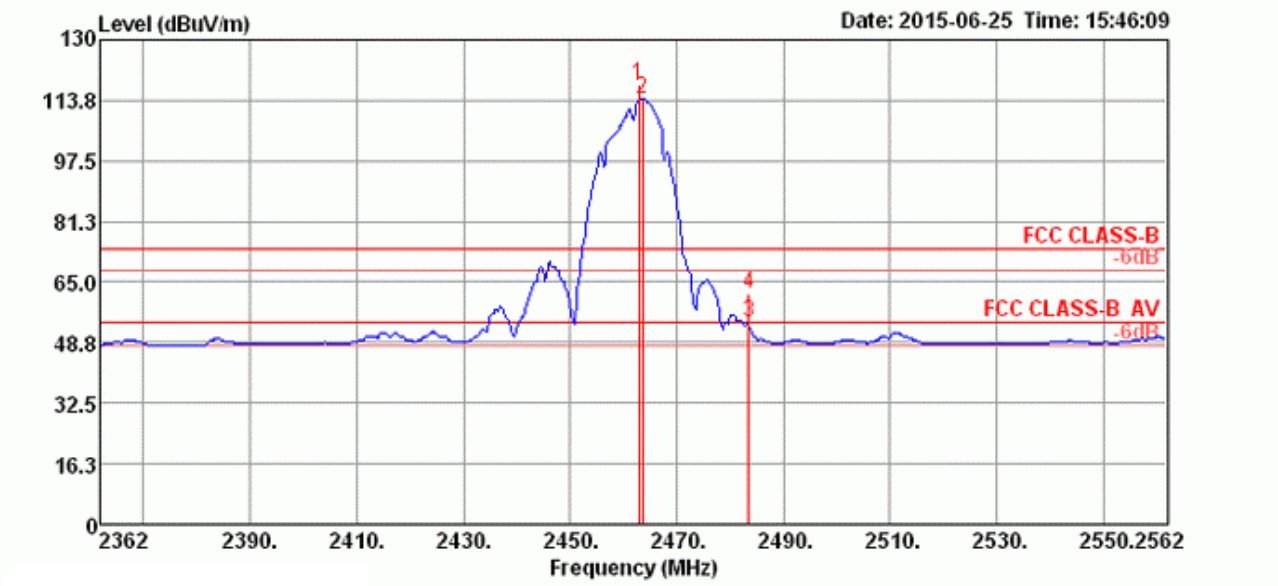
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.24 | 61.42 | 74.00 | -12.58 | 28.74 | 4.37 | 28.31 | 0.00 | Peak | 176 | 309 | HORIZONTAL |
| 2 | 2389.56 | 50.48 | 54.00 | -3.52 | 17.80 | 4.37 | 28.31 | 0.00 | Average | 176 | 309 | HORIZONTAL |
| 3 | 2436.04 | 118.62 | | | 85.80 | 4.44 | 28.38 | 0.00 | Peak | 176 | 309 | HORIZONTAL |
| 4 | 2436.36 | 114.82 | | | 82.00 | 4.44 | 28.38 | 0.00 | Average | 176 | 309 | HORIZONTAL |
| 5 | 2484.14 | 61.30 | 74.00 | -12.70 | 28.32 | 4.51 | 28.47 | 0.00 | Peak | 176 | 309 | HORIZONTAL |
| 6 | 2486.36 | 50.47 | 54.00 | -3.53 | 17.49 | 4.51 | 28.47 | 0.00 | Average | 176 | 309 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

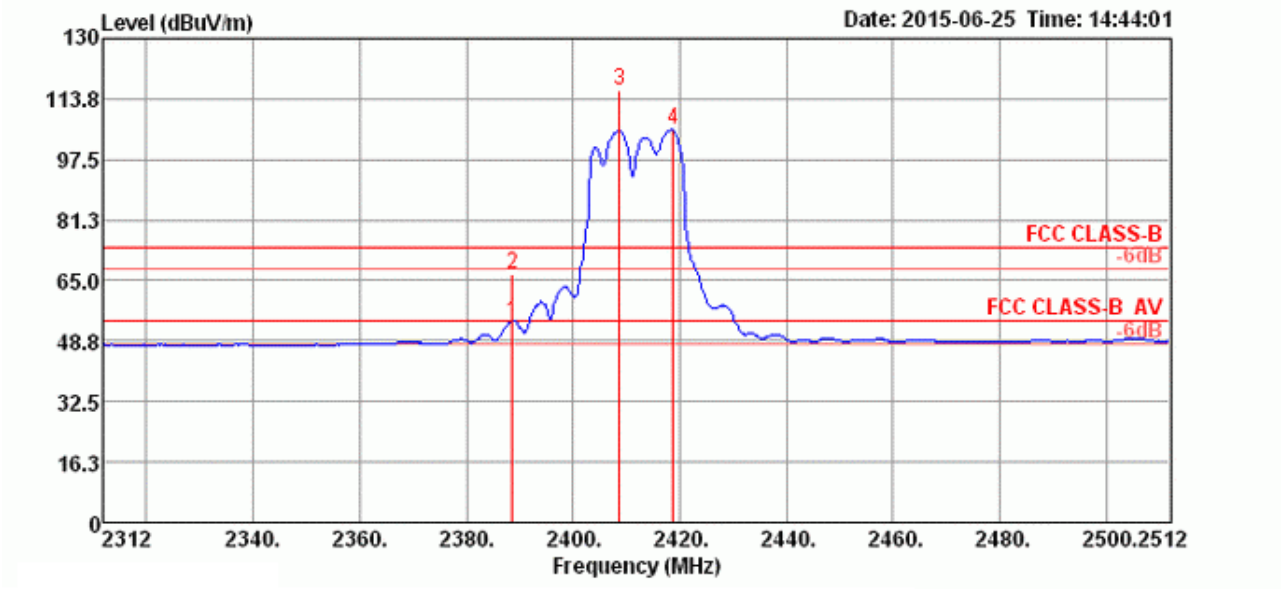



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2462.96 | 117.86 | | | 84.94 | 4.48 | 28.44 | 0.00 | Peak | 233 | 303 | HORIZONTAL |
| 2 | 2463.60 | 114.03 | | | 81.11 | 4.48 | 28.44 | 0.00 | Average | 233 | 303 | HORIZONTAL |
| 3 | 2483.50 | 53.97 | 54.00 | -0.03 | 20.99 | 4.51 | 28.47 | 0.00 | Average | 233 | 303 | HORIZONTAL |
| 4 | 2483.50 | 62.03 | 74.00 | -11.97 | 29.05 | 4.51 | 28.47 | 0.00 | Peak | 233 | 303 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

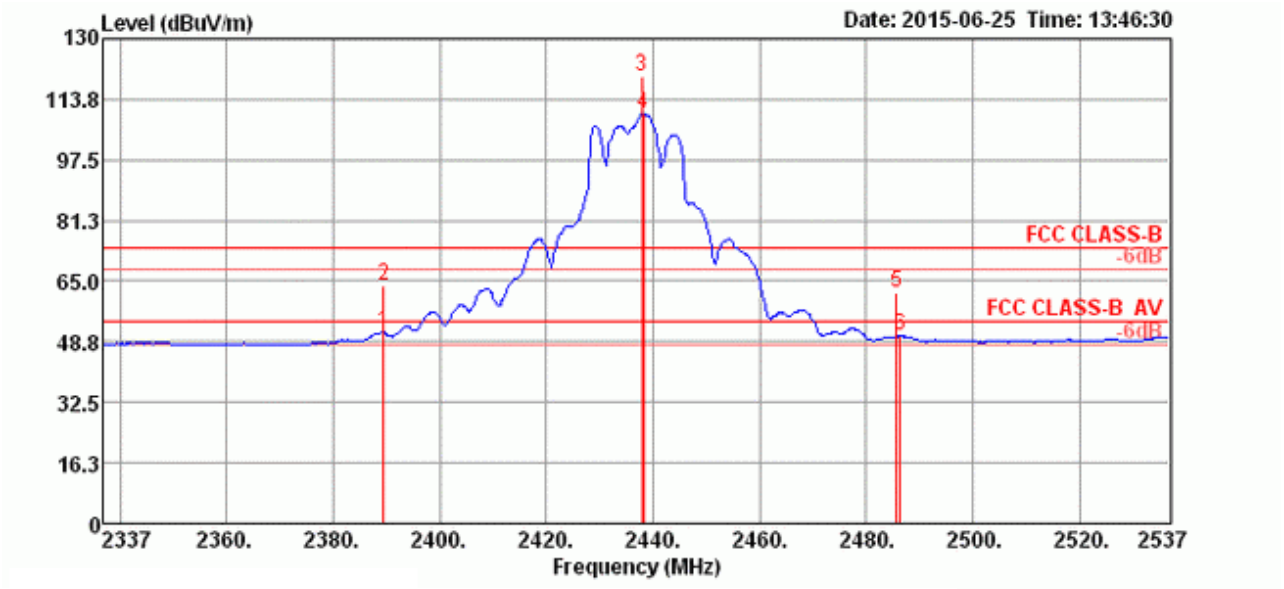
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2388.60 | 53.93 | 54.00 | -0.07 | 21.25 | 4.37 | 28.31 | 0.00 | Average | 213 | 314 | HORIZONTAL |
| 2 | 2388.60 | 66.85 | 74.00 | -7.15 | 34.17 | 4.37 | 28.31 | 0.00 | Peak | 213 | 314 | HORIZONTAL |
| 3 | 2408.80 | 115.93 | | | 83.18 | 4.41 | 28.34 | 0.00 | Peak | 213 | 314 | HORIZONTAL |
| 4 | 2418.73 | 105.36 | | | 72.58 | 4.44 | 28.34 | 0.00 | Average | 213 | 314 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

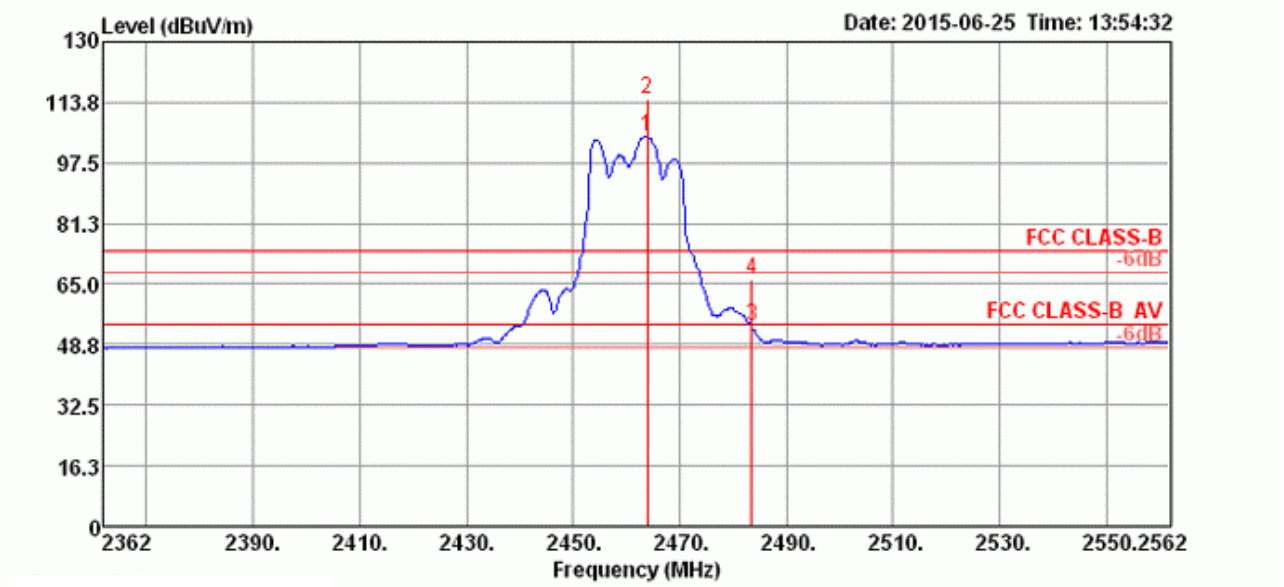
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 51.18 | 54.00 | -2.82 | 18.50 | 4.37 | 28.31 | 0.00 | Average | 174 | 303 | HORIZONTAL |
| 2 | 2389.56 | 63.95 | 74.00 | -10.05 | 31.27 | 4.37 | 28.31 | 0.00 | Peak | 174 | 303 | HORIZONTAL |
| 3 | 2437.96 | 119.85 | | | 87.00 | 4.44 | 28.41 | 0.00 | Peak | 174 | 303 | HORIZONTAL |
| 4 | 2438.28 | 109.80 | | | 76.95 | 4.44 | 28.41 | 0.00 | Average | 174 | 303 | HORIZONTAL |
| 5 | 2485.72 | 61.73 | 74.00 | -12.27 | 28.75 | 4.51 | 28.47 | 0.00 | Peak | 174 | 303 | HORIZONTAL |
| 6 | 2486.36 | 50.21 | 54.00 | -3.79 | 17.23 | 4.51 | 28.47 | 0.00 | Average | 174 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

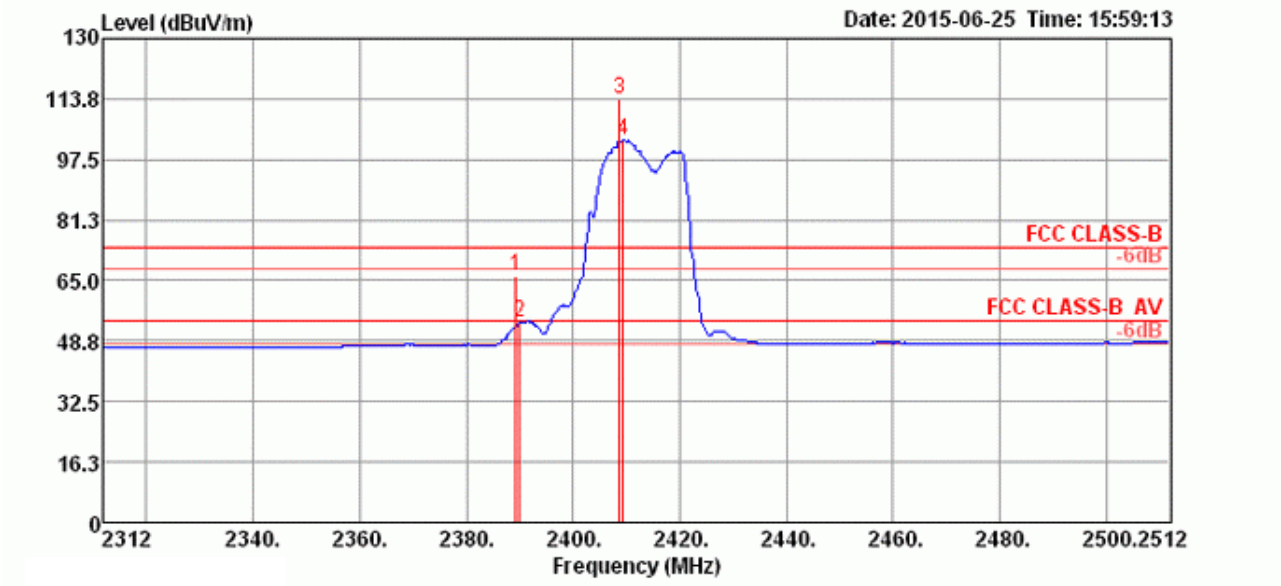



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2463.92 | 104.46 | | | 71.54 | 4.48 | 28.44 | 0.00 | Average | 203 | 302 | HORIZONTAL |
| 2 | 2463.92 | 114.49 | | | 81.57 | 4.48 | 28.44 | 0.00 | Peak | 203 | 302 | HORIZONTAL |
| 3 | 2483.50 | 53.66 | 54.00 | -0.34 | 20.68 | 4.51 | 28.47 | 0.00 | Average | 203 | 302 | HORIZONTAL |
| 4 | 2483.50 | 66.23 | 74.00 | -7.77 | 33.25 | 4.51 | 28.47 | 0.00 | Peak | 203 | 302 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

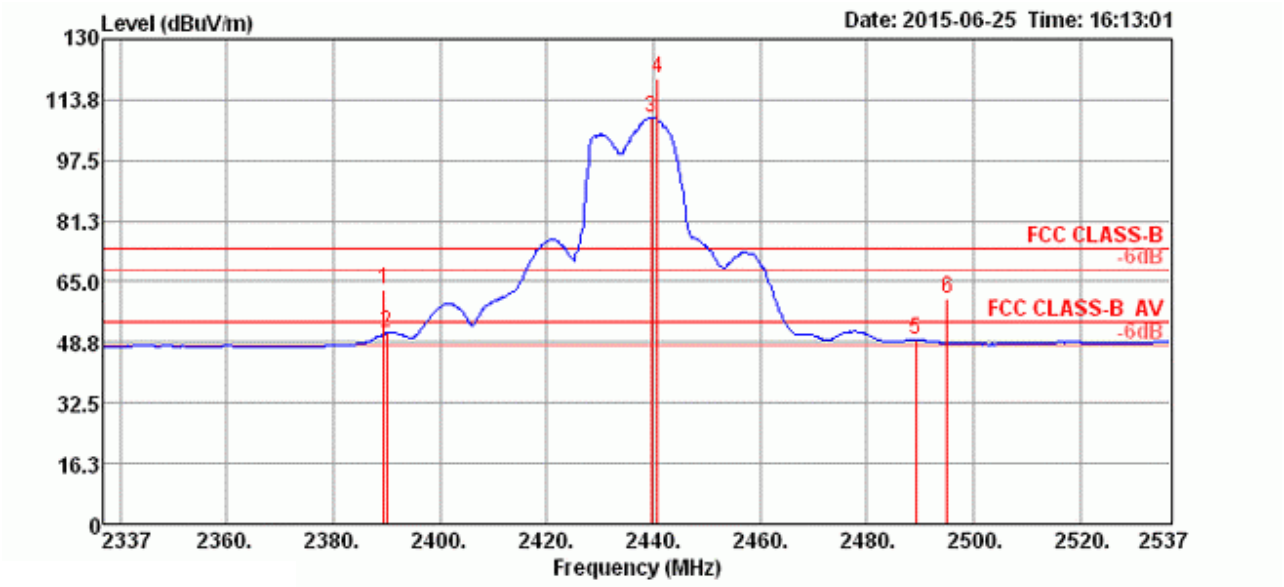
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.24 | 66.27 | 74.00 | -7.73 | 33.59 | 4.37 | 28.31 | 0.00 | Peak | 217 | 309 | HORIZONTAL |
| 2 | 2390.00 | 53.57 | 54.00 | -0.43 | 20.85 | 4.41 | 28.31 | 0.00 | Average | 217 | 309 | HORIZONTAL |
| 3 | 2408.80 | 113.83 | | | 81.08 | 4.41 | 28.34 | 0.00 | Peak | 217 | 309 | HORIZONTAL |
| 4 | 2409.44 | 102.58 | | | 69.83 | 4.41 | 28.34 | 0.00 | Average | 217 | 309 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

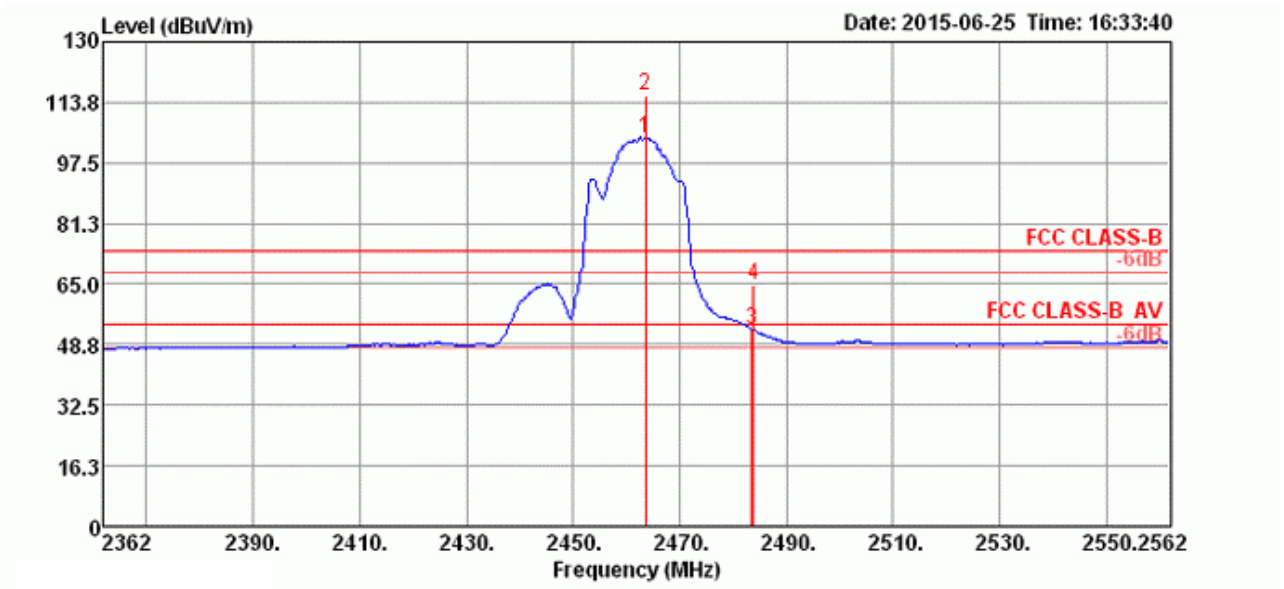
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 62.80 | 74.00 | -11.20 | 30.12 | 4.37 | 28.31 | 0.00 | Peak | 235 | 305 | HORIZONTAL |
| 2 | 2390.00 | 51.10 | 54.00 | -2.90 | 18.38 | 4.41 | 28.31 | 0.00 | Average | 235 | 305 | HORIZONTAL |
| 3 | 2439.56 | 109.00 | | | 76.15 | 4.44 | 28.41 | 0.00 | Average | 235 | 305 | HORIZONTAL |
| 4 | 2440.85 | 119.63 | | | 86.74 | 4.48 | 28.41 | 0.00 | Peak | 235 | 305 | HORIZONTAL |
| 5 | 2489.24 | 49.31 | 54.00 | -4.69 | 16.30 | 4.51 | 28.50 | 0.00 | Average | 235 | 305 | HORIZONTAL |
| 6 | 2495.01 | 60.62 | 74.00 | -13.38 | 27.57 | 4.55 | 28.50 | 0.00 | Peak | 235 | 305 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

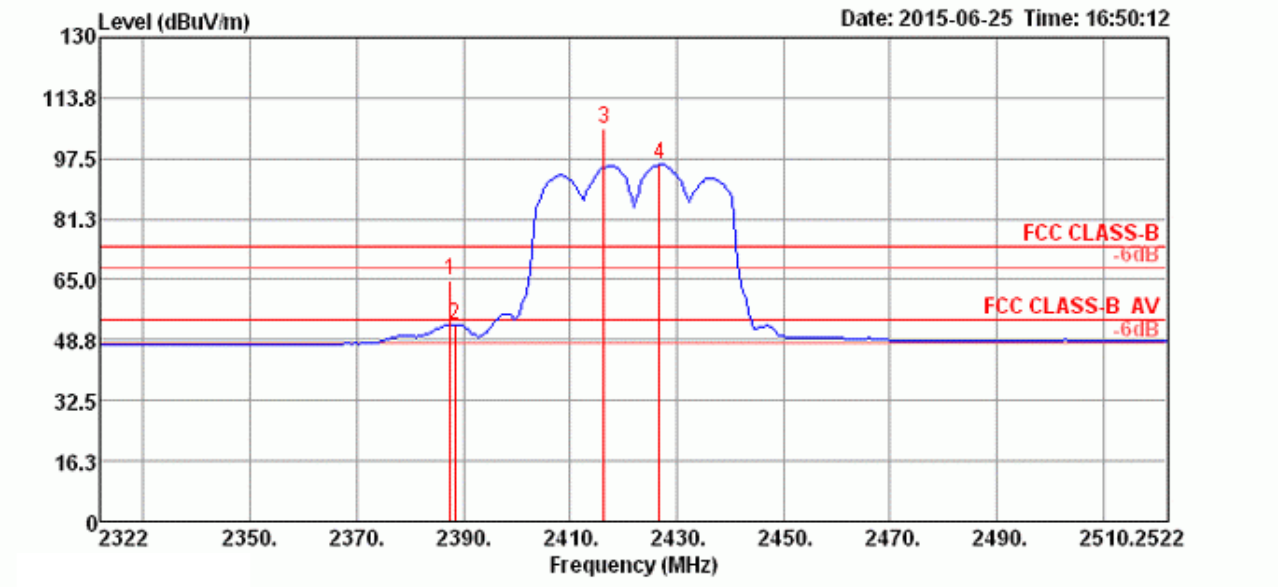



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2463.60 | 104.33 | | | 71.41 | 4.48 | 28.44 | 0.00 | Average | 153 | 47 | HORIZONTAL |
| 2 | 2463.60 | 115.39 | | | 82.47 | 4.48 | 28.44 | 0.00 | Peak | 153 | 47 | HORIZONTAL |
| 3 | 2483.50 | 52.78 | 54.00 | -1.22 | 19.80 | 4.51 | 28.47 | 0.00 | Average | 153 | 47 | HORIZONTAL |
| 4 | 2483.80 | 64.90 | 74.00 | -9.10 | 31.92 | 4.51 | 28.47 | 0.00 | Peak | 153 | 47 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 |

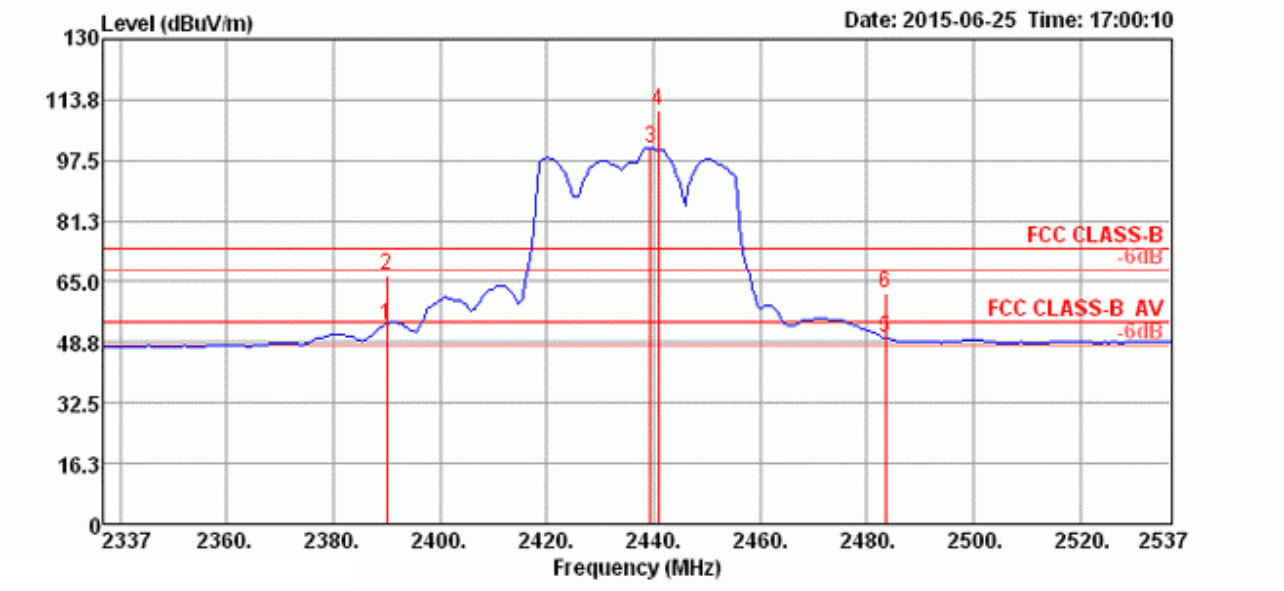
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2387.55 | 64.86 | 74.00 | -9.14 | 32.18 | 4.37 | 28.31 | 0.00 | Peak | 176 | 60 | HORIZONTAL |
| 2 | 2388.35 | 52.80 | 54.00 | -1.20 | 20.12 | 4.37 | 28.31 | 0.00 | Average | 176 | 60 | HORIZONTAL |
| 3 | 2416.39 | 105.73 | | | 72.95 | 4.44 | 28.34 | 0.00 | Peak | 176 | 60 | HORIZONTAL |
| 4 | 2426.81 | 95.76 | | | 62.94 | 4.44 | 28.38 | 0.00 | Average | 176 | 60 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

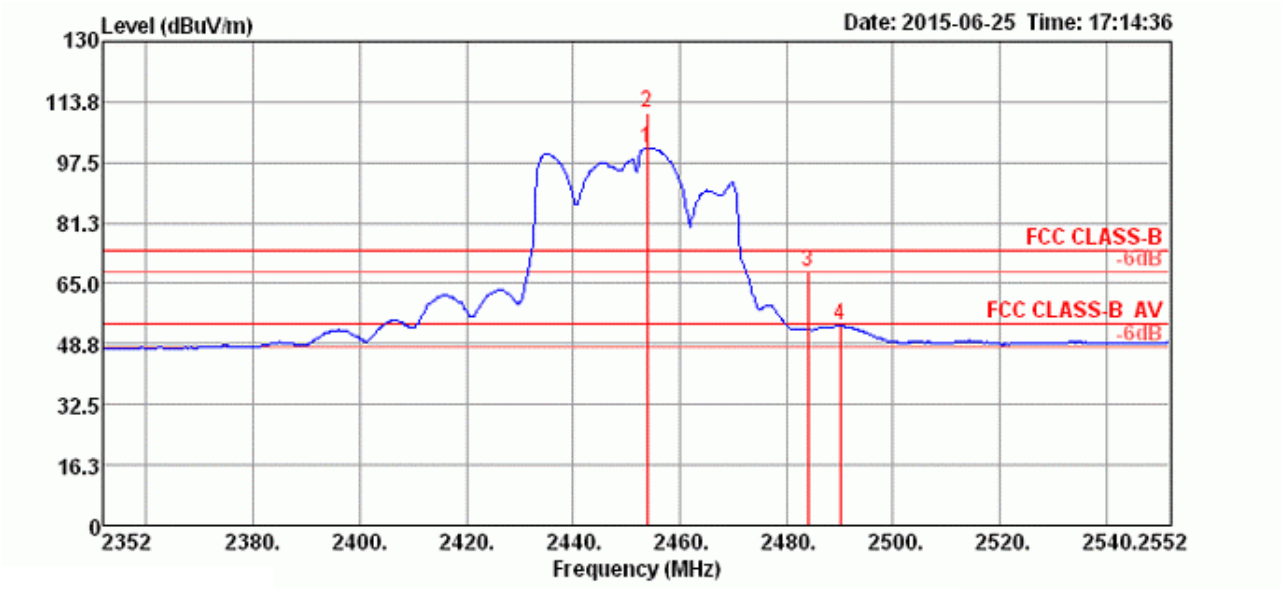
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.40 | 54.00 | -0.60 | 20.68 | 4.41 | 28.31 | 0.00 | Average | 172 | 300 | HORIZONTAL |
| 2 | 2390.00 | 66.54 | 74.00 | -7.46 | 33.82 | 4.41 | 28.31 | 0.00 | Peak | 172 | 300 | HORIZONTAL |
| 3 | 2439.40 | 100.62 | | | 67.77 | 4.44 | 28.41 | 0.00 | Average | 172 | 300 | HORIZONTAL |
| 4 | 2441.01 | 110.63 | | | 77.74 | 4.48 | 28.41 | 0.00 | Peak | 172 | 300 | HORIZONTAL |
| 5 | 2483.50 | 49.84 | 54.00 | -4.16 | 16.86 | 4.51 | 28.47 | 0.00 | Average | 172 | 300 | HORIZONTAL |
| 6 | 2483.50 | 61.72 | 74.00 | -12.28 | 28.74 | 4.51 | 28.47 | 0.00 | Peak | 172 | 300 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



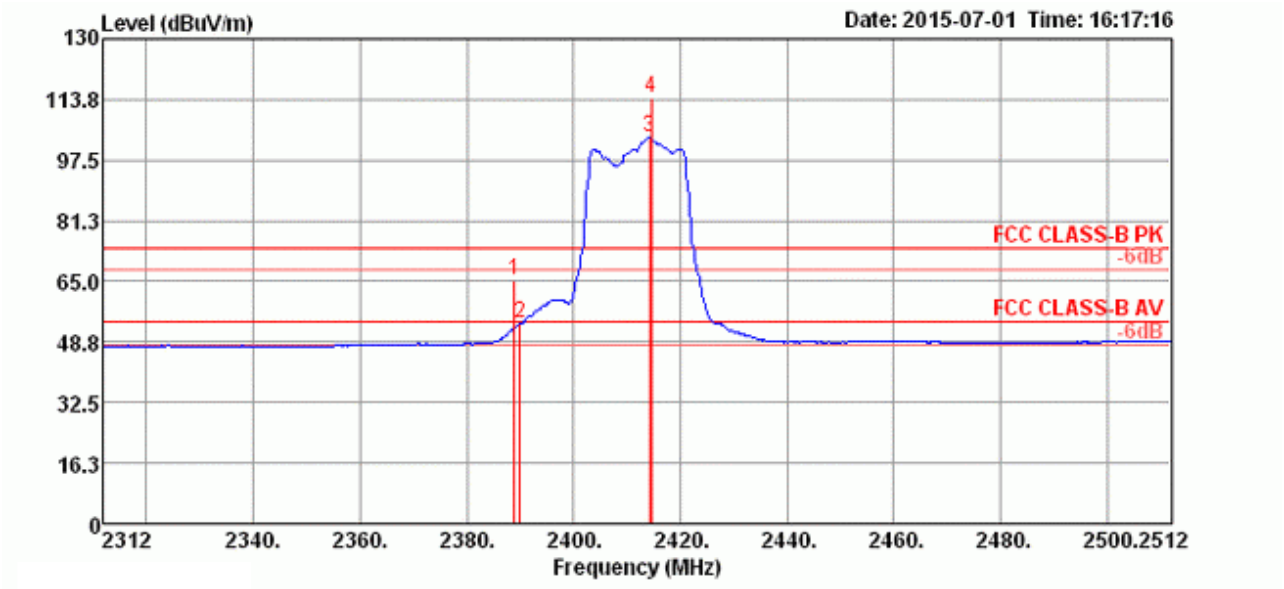

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2453.92 | 101.41 | | | 68.49 | 4.48 | 28.44 | 0.00 | Average | 195 | 308 | HORIZONTAL |
| 2 | 2453.92 | 111.00 | | | 78.08 | 4.48 | 28.44 | 0.00 | Peak | 195 | 308 | HORIZONTAL |
| 3 | 2484.05 | 68.35 | 74.00 | -5.65 | 35.37 | 4.51 | 28.47 | 0.00 | Peak | 195 | 308 | HORIZONTAL |
| 4 | 2490.14 | 53.69 | 54.00 | -0.31 | 20.68 | 4.51 | 28.50 | 0.00 | Average | 195 | 308 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Non-beamforming Mode>: 3TX, 2S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

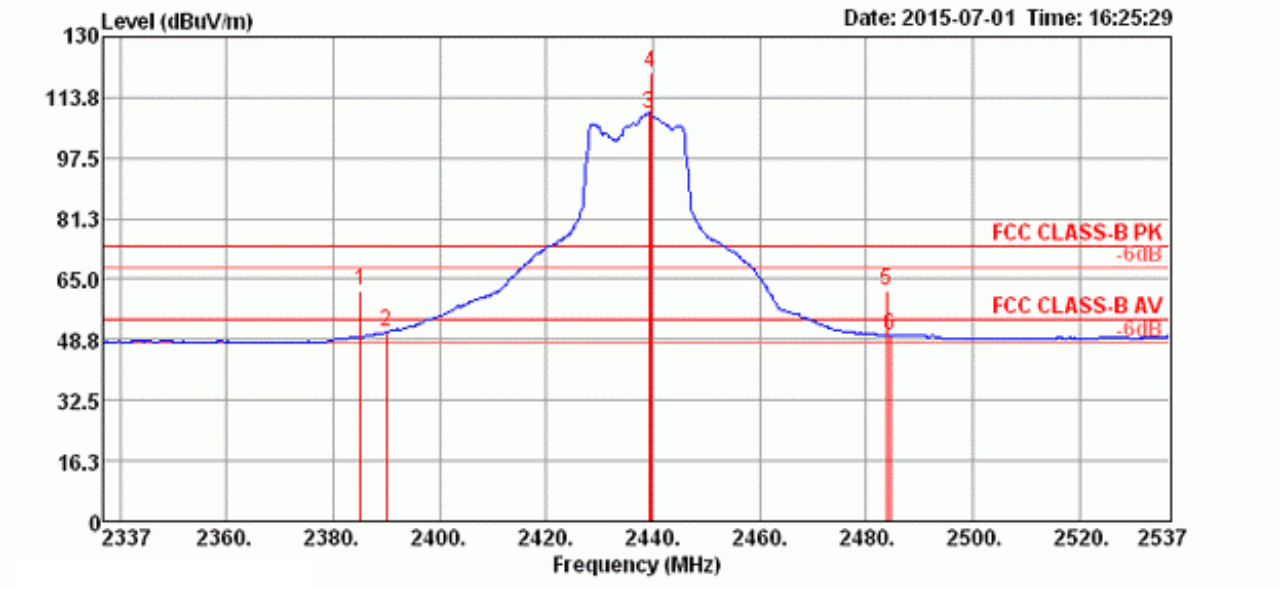
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2388.92 | 65.10 | 74.00 | -8.90 | 32.42 | 4.37 | 28.31 | 0.00 | Peak | 188 | 302 | HORIZONTAL |
| 2 | 2390.00 | 53.62 | 54.00 | -0.38 | 20.90 | 4.41 | 28.31 | 0.00 | Average | 188 | 302 | HORIZONTAL |
| 3 | 2414.24 | 103.70 | | | 70.95 | 4.41 | 28.34 | 0.00 | Average | 188 | 302 | HORIZONTAL |
| 4 | 2414.56 | 113.98 | | | 81.23 | 4.41 | 28.34 | 0.00 | Peak | 188 | 302 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

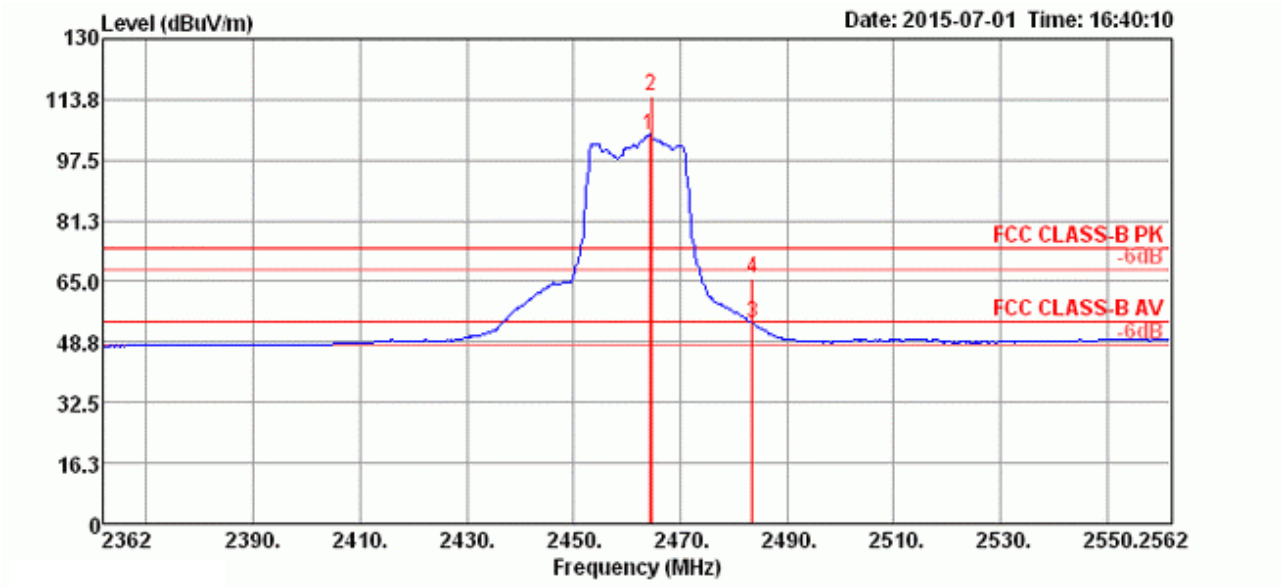
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2385.08 | 61.79 | 74.00 | -12.21 | 29.14 | 4.37 | 28.28 | 0.00 | Peak | 187 | 303 | HORIZONTAL |
| 2 | 2390.00 | 50.76 | 54.00 | -3.24 | 18.04 | 4.41 | 28.31 | 0.00 | Average | 187 | 303 | HORIZONTAL |
| 3 | 2439.24 | 109.57 | | | 76.72 | 4.44 | 28.41 | 0.00 | Average | 187 | 303 | HORIZONTAL |
| 4 | 2439.56 | 120.22 | | | 87.37 | 4.44 | 28.41 | 0.00 | Peak | 187 | 303 | HORIZONTAL |
| 5 | 2483.80 | 61.79 | 74.00 | -12.21 | 28.81 | 4.51 | 28.47 | 0.00 | Peak | 187 | 303 | HORIZONTAL |
| 6 | 2484.44 | 50.01 | 54.00 | -3.99 | 17.03 | 4.51 | 28.47 | 0.00 | Average | 187 | 303 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

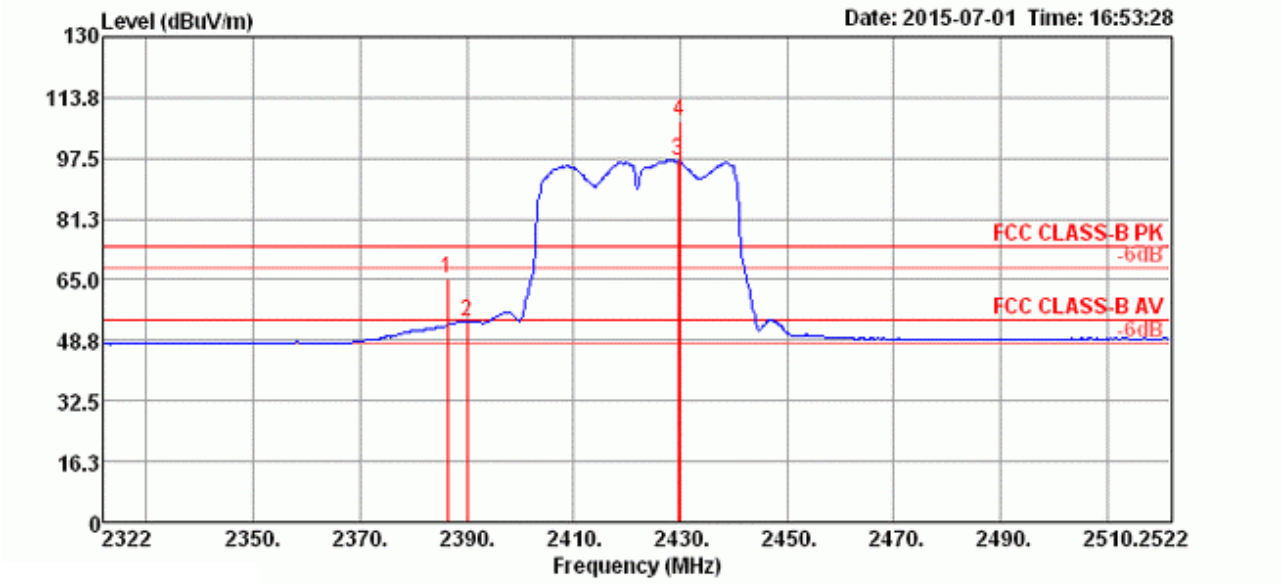



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2464.24 | 104.33 | | | 71.41 | 4.48 | 28.44 | 0.00 | Average | 201 | 301 | HORIZONTAL |
| 2 | 2464.56 | 114.74 | | | 81.82 | 4.48 | 28.44 | 0.00 | Peak | 201 | 301 | HORIZONTAL |
| 3 | 2483.50 | 53.84 | 54.00 | -0.16 | 20.86 | 4.51 | 28.47 | 0.00 | Average | 201 | 301 | HORIZONTAL |
| 4 | 2483.50 | 65.64 | 74.00 | -8.36 | 32.66 | 4.51 | 28.47 | 0.00 | Peak | 201 | 301 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 |

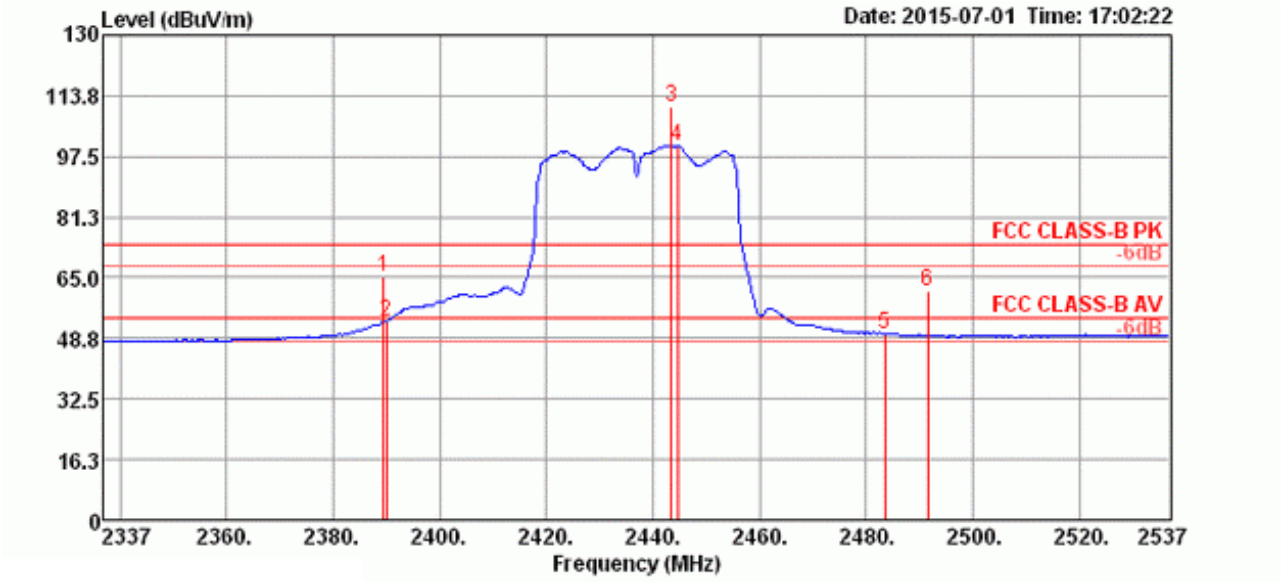
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2386.42 | 65.32 | 74.00 | -8.68 | 32.64 | 4.37 | 28.31 | 0.00 | Peak | 189 | 302 | HORIZONTAL |
| 2 | 2390.00 | 53.64 | 54.00 | -0.36 | 20.92 | 4.41 | 28.31 | 0.00 | Average | 189 | 302 | HORIZONTAL |
| 3 | 2429.69 | 97.03 | | | 64.21 | 4.44 | 28.38 | 0.00 | Average | 189 | 302 | HORIZONTAL |
| 4 | 2430.01 | 107.62 | | | 74.80 | 4.44 | 28.38 | 0.00 | Peak | 189 | 302 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

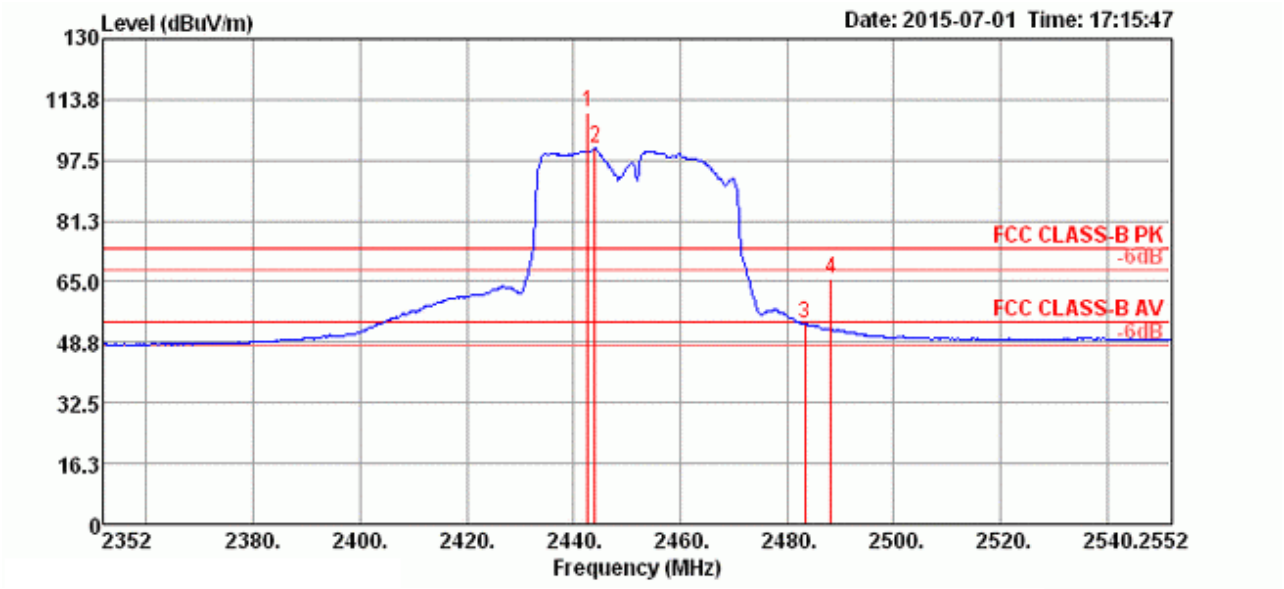
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.56 | 65.17 | 74.00 | -8.83 | 32.49 | 4.37 | 28.31 | 0.00 | Peak | 211 | 302 | HORIZONTAL |
| 2 | 2390.00 | 53.26 | 54.00 | -0.74 | 20.54 | 4.41 | 28.31 | 0.00 | Average | 211 | 302 | HORIZONTAL |
| 3 | 2443.41 | 110.75 | | | 77.86 | 4.48 | 28.41 | 0.00 | Peak | 211 | 302 | HORIZONTAL |
| 4 | 2444.69 | 100.40 | | | 67.51 | 4.48 | 28.41 | 0.00 | Average | 211 | 302 | HORIZONTAL |
| 5 | 2483.50 | 50.09 | 54.00 | -3.91 | 17.11 | 4.51 | 28.47 | 0.00 | Average | 211 | 302 | HORIZONTAL |
| 6 | 2491.49 | 61.43 | 74.00 | -12.57 | 28.42 | 4.51 | 28.50 | 0.00 | Peak | 211 | 302 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2442.71 | 110.40 | | | 77.51 | 4.48 | 28.41 | 0.00 | Peak | 189 | 301 | HORIZONTAL |
| 2 | 2443.99 | 100.61 | | | 67.72 | 4.48 | 28.41 | 0.00 | Average | 189 | 301 | HORIZONTAL |
| 3 | 2483.50 | 53.76 | 54.00 | -0.24 | 20.78 | 4.51 | 28.47 | 0.00 | Average | 189 | 301 | HORIZONTAL |
| 4 | 2488.22 | 65.61 | 74.00 | -8.39 | 32.60 | 4.51 | 28.50 | 0.00 | Peak | 189 | 301 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Non-beamforming Mode>: 3TX, 3S

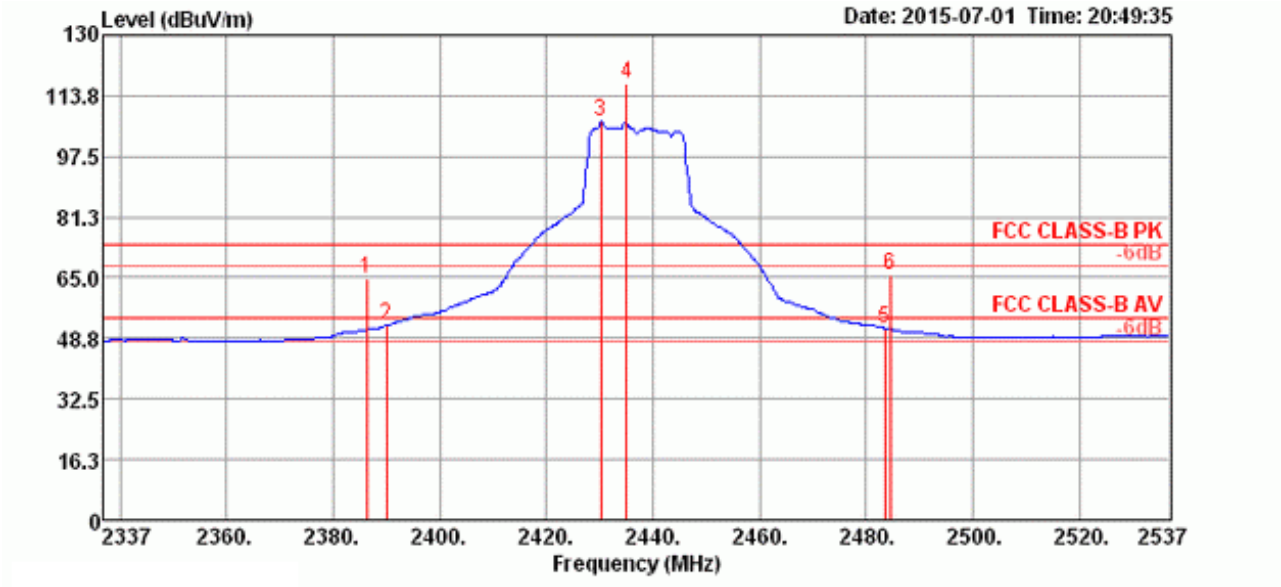
| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss3 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

Channel 1


| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.40 | 68.67 | 74.00 | -5.33 | 35.99 | 4.37 | 28.31 | 0.00 | Peak | 198 | 201 | VERTICAL |
| 2 | 2390.00 | 53.69 | 54.00 | -0.31 | 20.97 | 4.41 | 28.31 | 0.00 | Average | 198 | 201 | VERTICAL |
| 3 | 2409.92 | 100.24 | | | 67.49 | 4.41 | 28.34 | 0.00 | Average | 198 | 201 | VERTICAL |
| 4 | 2415.69 | 111.76 | | | 78.98 | 4.44 | 28.34 | 0.00 | Peak | 198 | 201 | VERTICAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

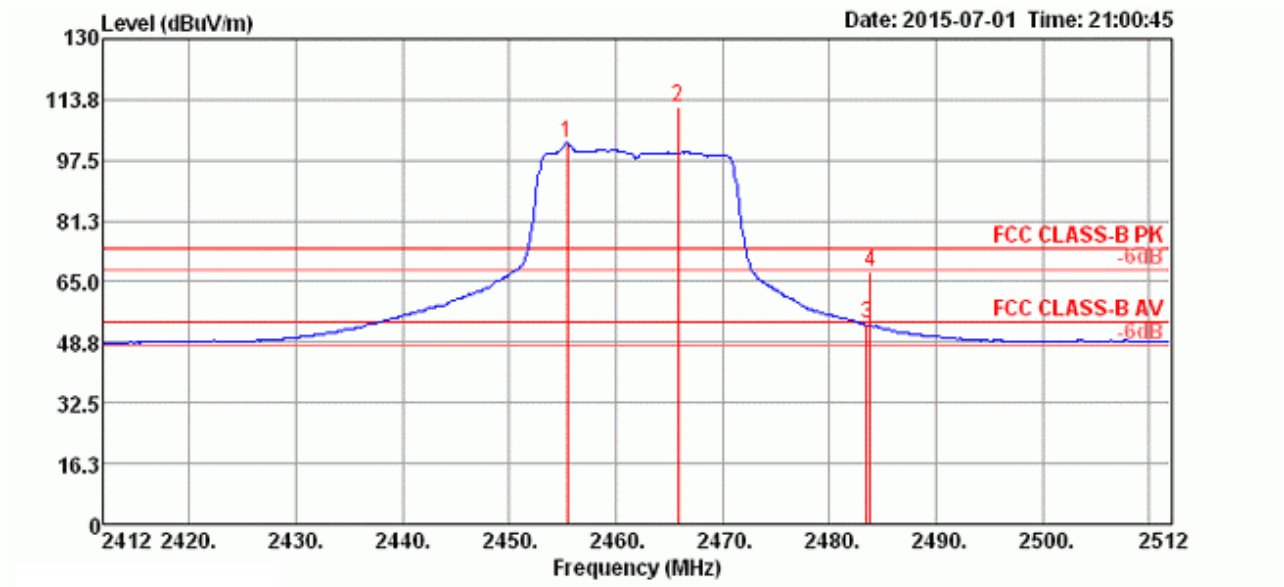
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2386.36 | 65.00 | 74.00 | -9.00 | 32.32 | 4.37 | 28.31 | 0.00 | Peak | 191 | 171 | VERTICAL |
| 2 | 2390.00 | 52.21 | 54.00 | -1.79 | 19.49 | 4.41 | 28.31 | 0.00 | Average | 191 | 171 | VERTICAL |
| 3 | 2430.27 | 106.76 | | | 73.94 | 4.44 | 28.38 | 0.00 | Average | 191 | 171 | VERTICAL |
| 4 | 2435.08 | 116.94 | | | 84.12 | 4.44 | 28.38 | 0.00 | Peak | 191 | 171 | VERTICAL |
| 5 | 2483.50 | 51.38 | 54.00 | -2.62 | 18.40 | 4.51 | 28.47 | 0.00 | Average | 191 | 171 | VERTICAL |
| 6 | 2484.44 | 65.52 | 74.00 | -8.48 | 32.54 | 4.51 | 28.47 | 0.00 | Peak | 191 | 171 | VERTICAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

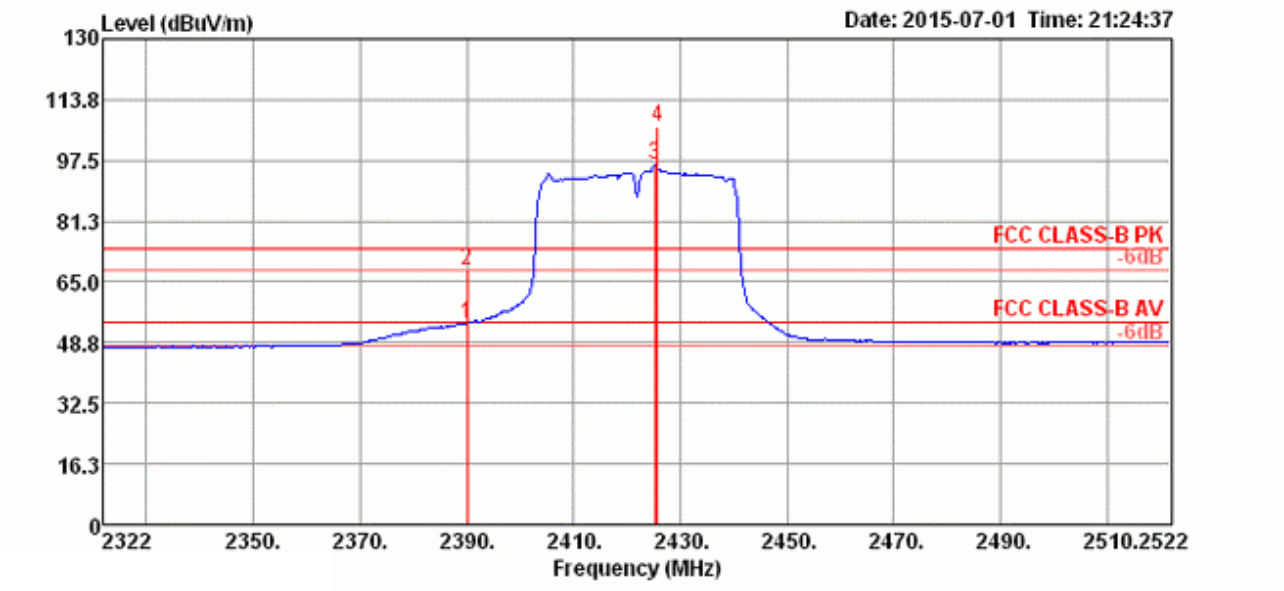



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2455.43 | 102.03 | | | 69.11 | 4.48 | 28.44 | 0.00 | Average | 212 | 231 | VERTICAL |
| 2 | 2465.85 | 111.88 | | | 78.96 | 4.48 | 28.44 | 0.00 | Peak | 212 | 231 | VERTICAL |
| 3 | 2483.50 | 53.68 | 54.00 | -0.32 | 20.70 | 4.51 | 28.47 | 0.00 | Average | 212 | 231 | VERTICAL |
| 4 | 2483.80 | 67.84 | 74.00 | -6.16 | 34.86 | 4.51 | 28.47 | 0.00 | Peak | 212 | 231 | VERTICAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss3 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 |
| Test date | Jul. 01, 2015 | | |

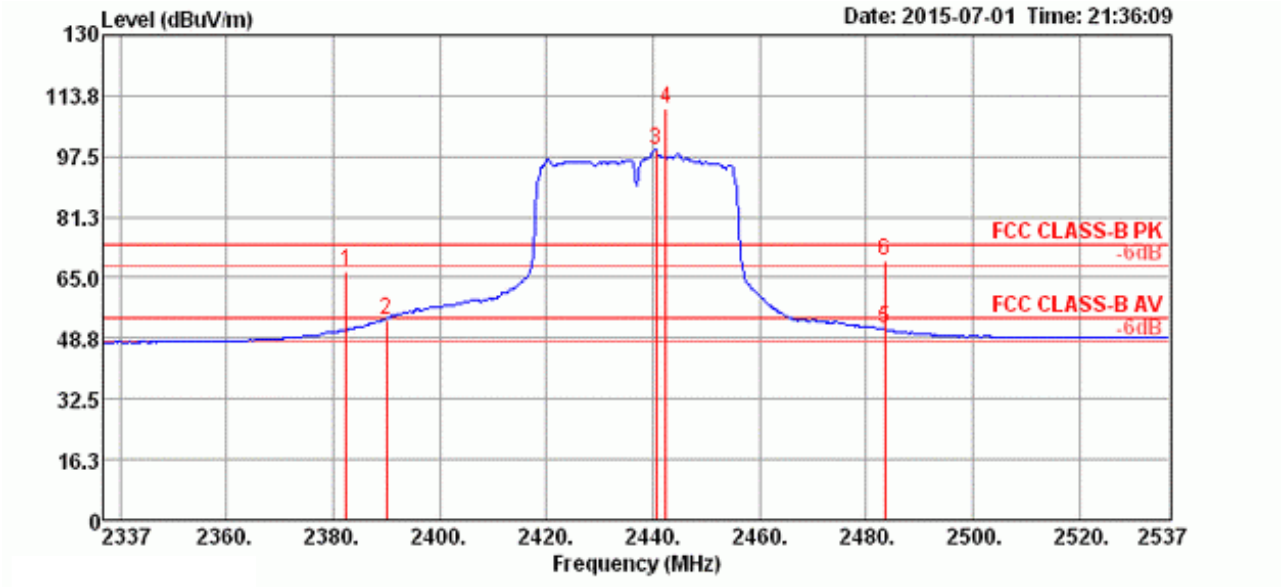
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.96 | 54.00 | -0.04 | 21.24 | 4.41 | 28.31 | 0.00 | Average | 194 | 177 | VERTICAL |
| 2 | 2390.00 | 68.25 | 74.00 | -5.75 | 35.53 | 4.41 | 28.31 | 0.00 | Peak | 194 | 177 | VERTICAL |
| 3 | 2425.21 | 96.58 | | | 63.76 | 4.44 | 28.38 | 0.00 | Average | 194 | 177 | VERTICAL |
| 4 | 2425.85 | 106.63 | | | 73.81 | 4.44 | 28.38 | 0.00 | Peak | 194 | 177 | VERTICAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

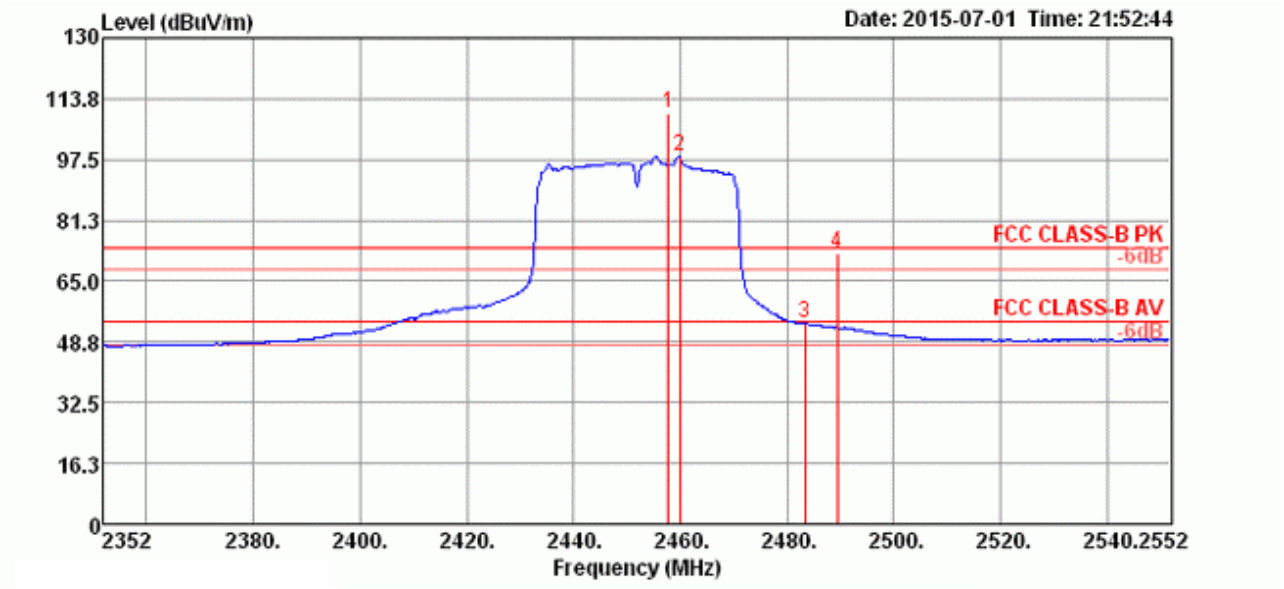
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2382.51 | 66.88 | 74.00 | -7.12 | 34.23 | 4.37 | 28.28 | 0.00 | Peak | 224 | 182 | VERTICAL |
| 2 | 2390.00 | 53.65 | 54.00 | -0.35 | 20.93 | 4.41 | 28.31 | 0.00 | Average | 224 | 182 | VERTICAL |
| 3 | 2440.53 | 99.13 | | | 66.28 | 4.44 | 28.41 | 0.00 | Average | 224 | 182 | VERTICAL |
| 4 | 2442.45 | 110.17 | | | 77.28 | 4.48 | 28.41 | 0.00 | Peak | 224 | 182 | VERTICAL |
| 5 | 2483.50 | 51.30 | 54.00 | -2.70 | 18.32 | 4.51 | 28.47 | 0.00 | Average | 224 | 182 | VERTICAL |
| 6 | 2483.50 | 69.49 | 74.00 | -4.51 | 36.51 | 4.51 | 28.47 | 0.00 | Peak | 224 | 182 | VERTICAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



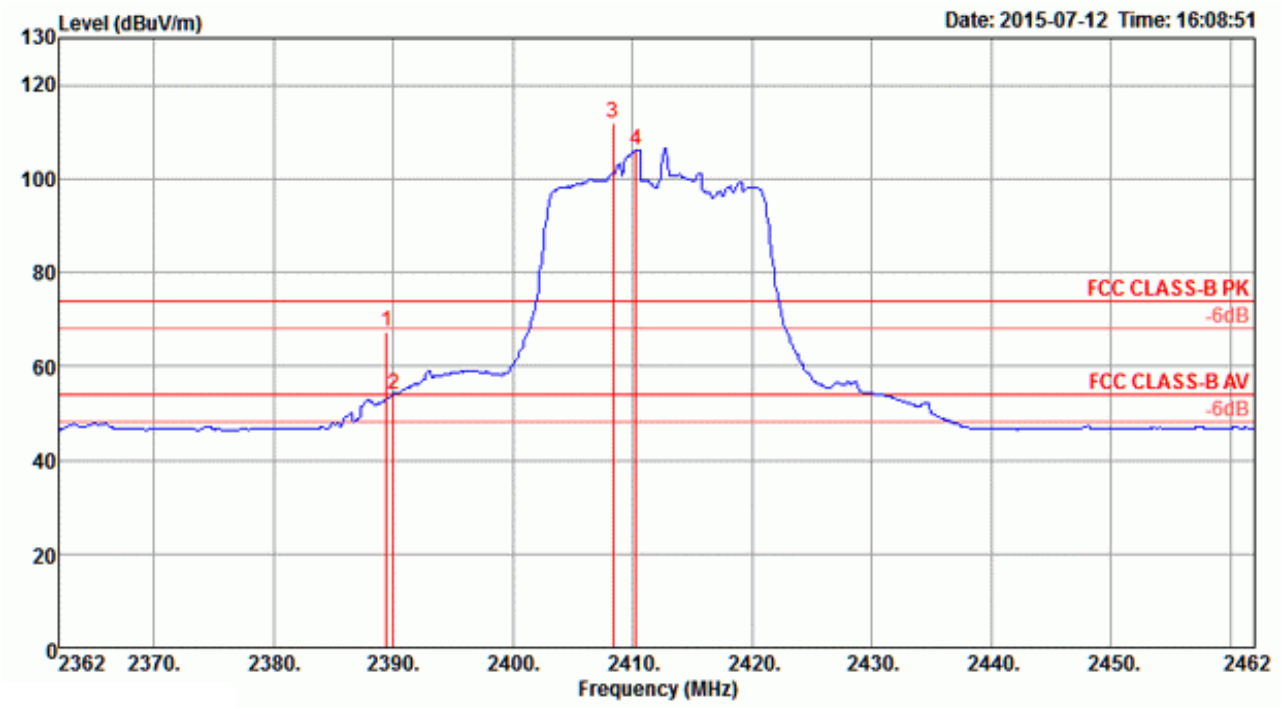

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2457.77 | 110.06 | | | 77.14 | 4.48 | 28.44 | 0.00 | Peak | 197 | 229 | VERTICAL |
| 2 | 2460.01 | 98.43 | | | 65.51 | 4.48 | 28.44 | 0.00 | Average | 197 | 229 | VERTICAL |
| 3 | 2483.50 | 53.60 | 54.00 | -0.40 | 20.62 | 4.51 | 28.47 | 0.00 | Average | 197 | 229 | VERTICAL |
| 4 | 2489.50 | 72.66 | 74.00 | -1.34 | 39.65 | 4.51 | 28.50 | 0.00 | Peak | 197 | 229 | VERTICAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Beamforming Mode>: 2TX, 1S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 |

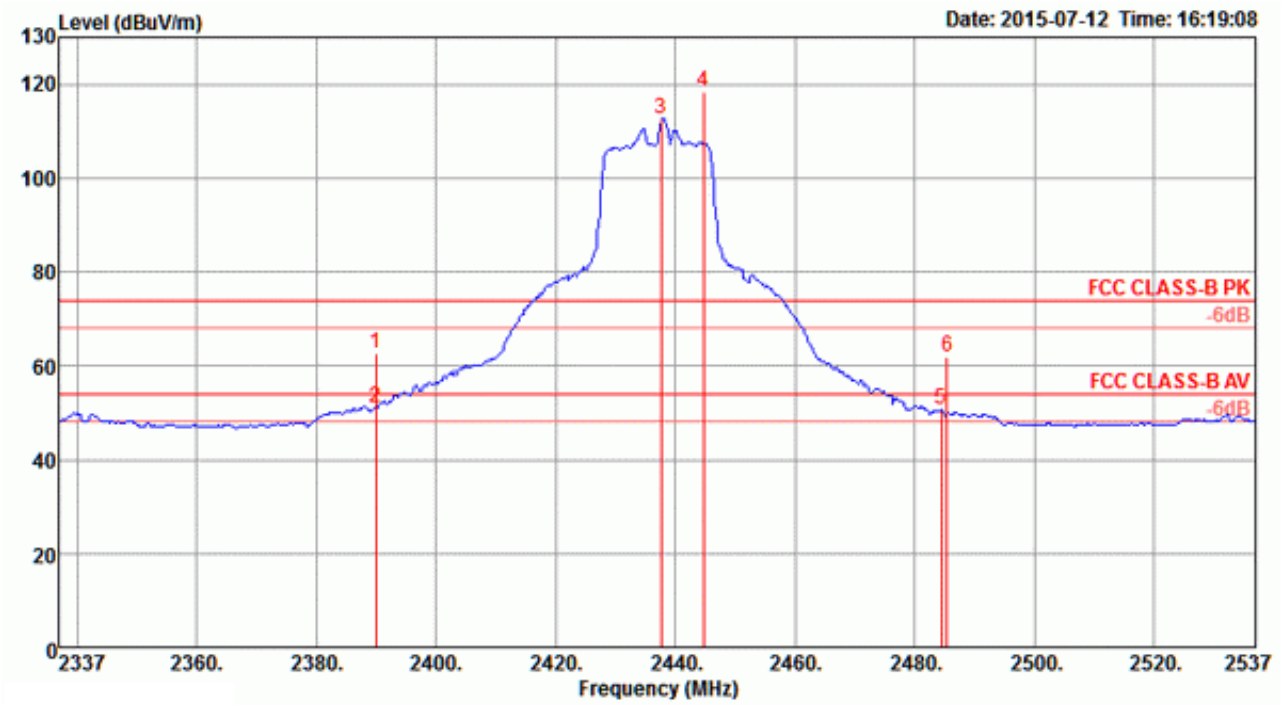
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2389.40 | 67.32 | 74.00 | -6.68 | 36.32 | 2.86 | 28.14 | 0.00 | 64 | 194 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.80 | 54.00 | -0.20 | 22.80 | 2.86 | 28.14 | 0.00 | 64 | 194 | Average | HORIZONTAL |
| 3 | 2408.31 | 111.76 | | | 80.77 | 2.87 | 28.12 | 0.00 | 64 | 194 | Peak | HORIZONTAL |
| 4 | 2410.24 | 106.28 | | | 75.29 | 2.87 | 28.12 | 0.00 | 64 | 194 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

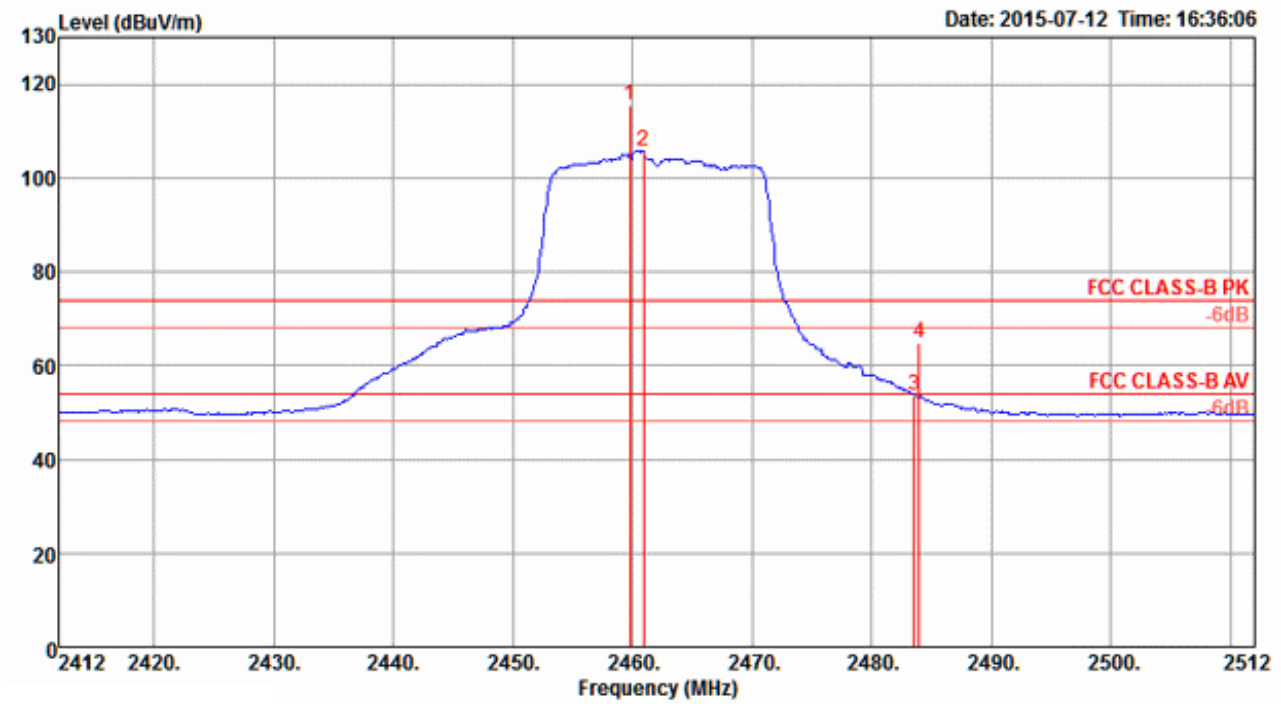
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2390.00 | 62.49 | 74.00 | -11.51 | 31.49 | 2.86 | 28.14 | 0.00 | 319 | 208 | Peak | HORIZONTAL |
| 2 | 2390.00 | 51.09 | 54.00 | -2.91 | 20.09 | 2.86 | 28.14 | 0.00 | 319 | 208 | Average | HORIZONTAL |
| 3 | 2437.64 | 112.74 | | | 81.78 | 2.89 | 28.07 | 0.00 | 319 | 208 | Average | HORIZONTAL |
| 4 | 2444.69 | 118.27 | | | 87.31 | 2.89 | 28.07 | 0.00 | 319 | 208 | Peak | HORIZONTAL |
| 5 | 2484.44 | 50.79 | 54.00 | -3.21 | 19.86 | 2.91 | 28.02 | 0.00 | 319 | 208 | Average | HORIZONTAL |
| 6 | 2485.40 | 61.84 | 74.00 | -12.16 | 30.91 | 2.91 | 28.02 | 0.00 | 319 | 208 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

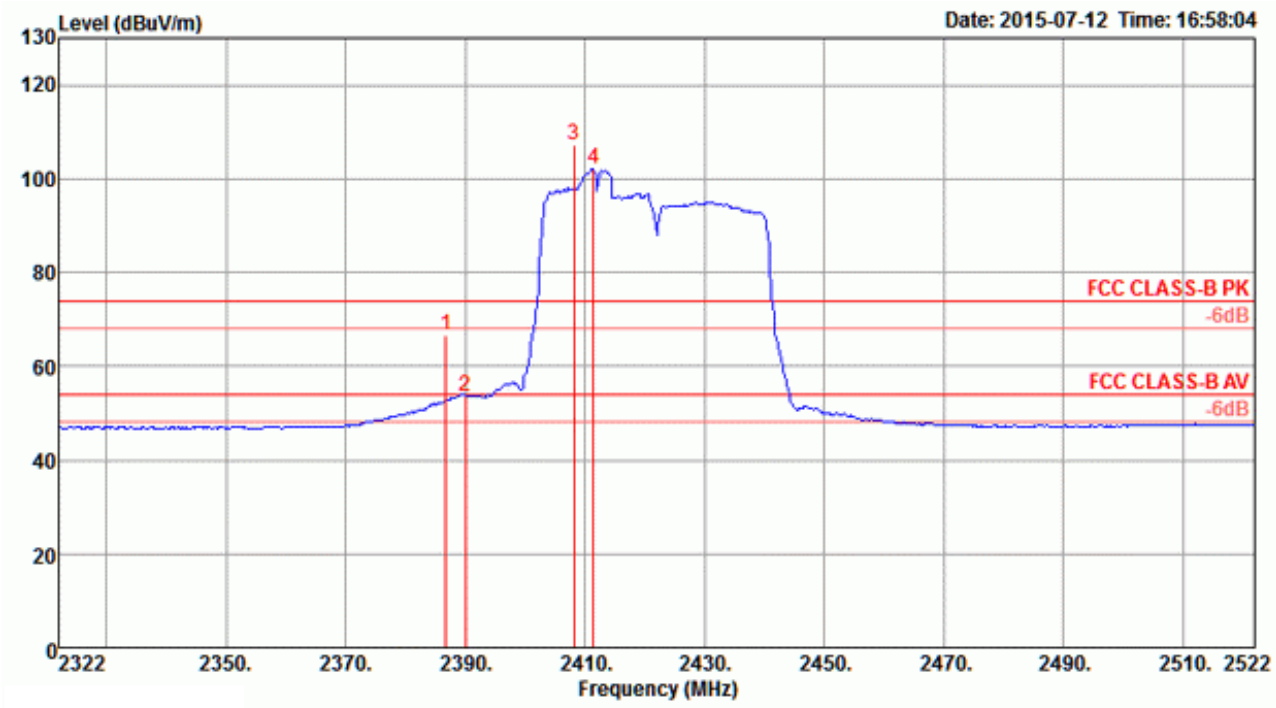



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2459.76 | 115.42 | | | 84.47 | 2.90 | 28.05 | 0.00 | 326 | 213 | Peak | HORIZONTAL |
| 2 | 2460.88 | 105.87 | | | 74.92 | 2.90 | 28.05 | 0.00 | 326 | 213 | Average | HORIZONTAL |
| 3 | 2483.50 | 53.75 | 54.00 | -0.25 | 22.82 | 2.91 | 28.02 | 0.00 | 326 | 213 | Average | HORIZONTAL |
| 4 | 2483.96 | 64.79 | 74.00 | -9.21 | 33.86 | 2.91 | 28.02 | 0.00 | 326 | 213 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 |

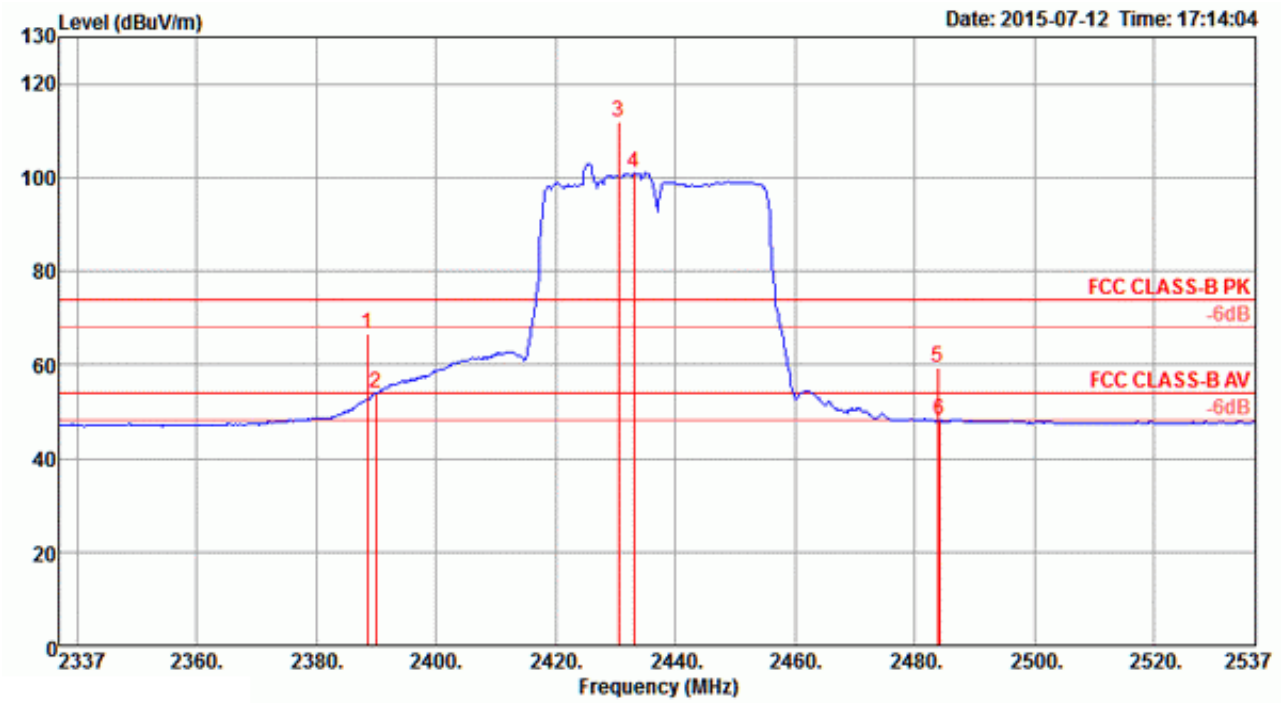
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2386.74 | 66.79 | 74.00 | -7.21 | 35.79 | 2.86 | 28.14 | 0.00 | 62 | 185 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.70 | 54.00 | -0.30 | 22.70 | 2.86 | 28.14 | 0.00 | 62 | 185 | Average | HORIZONTAL |
| 3 | 2408.22 | 107.30 | | | 76.31 | 2.87 | 28.12 | 0.00 | 62 | 185 | Peak | HORIZONTAL |
| 4 | 2411.42 | 102.01 | | | 71.02 | 2.87 | 28.12 | 0.00 | 62 | 185 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

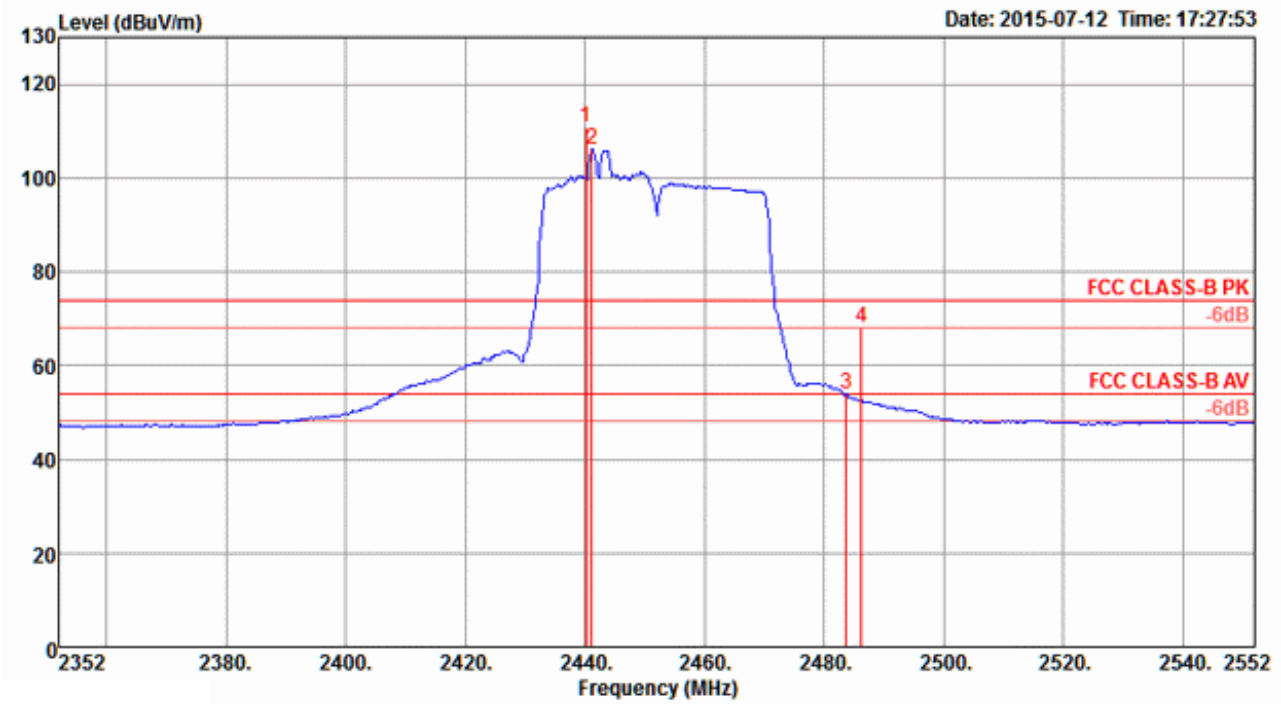
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2388.60 | 66.71 | 74.00 | -7.29 | 35.71 | 2.86 | 28.14 | 0.00 | 309 | 192 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.81 | 54.00 | -0.19 | 22.81 | 2.86 | 28.14 | 0.00 | 309 | 192 | Average | HORIZONTAL |
| 3 | 2430.59 | 111.83 | | | 80.85 | 2.88 | 28.10 | 0.00 | 309 | 192 | Peak | HORIZONTAL |
| 4 | 2433.15 | 100.87 | | | 69.89 | 2.88 | 28.10 | 0.00 | 309 | 192 | Average | HORIZONTAL |
| 5 | 2483.82 | 59.31 | 74.00 | -14.69 | 28.38 | 2.91 | 28.02 | 0.00 | 309 | 192 | Peak | HORIZONTAL |
| 6 | 2484.12 | 48.15 | 54.00 | -5.85 | 17.22 | 2.91 | 28.02 | 0.00 | 309 | 192 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



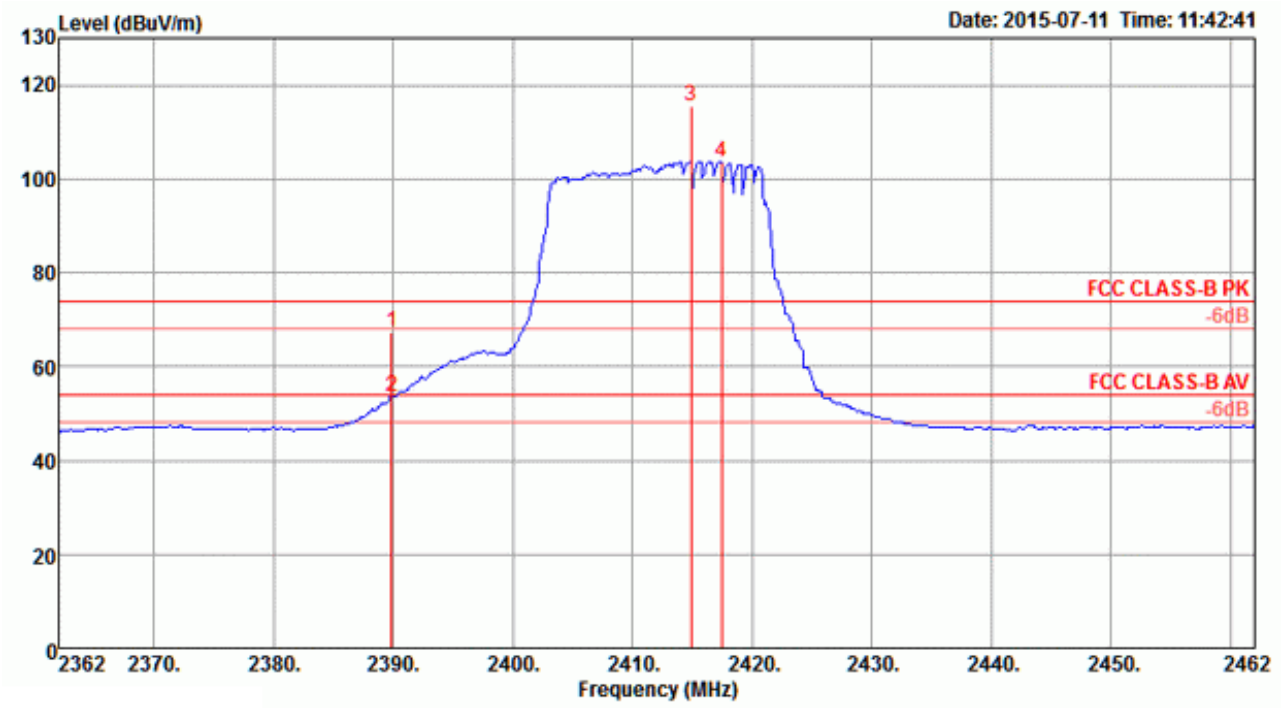

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2440.14 | 110.65 | | | 79.69 | 2.89 | 28.07 | 0.00 | 312 | 222 | Peak | HORIZONTAL |
| 2 | 2441.10 | 106.05 | | | 75.09 | 2.89 | 28.07 | 0.00 | 312 | 222 | Average | HORIZONTAL |
| 3 | 2483.73 | 53.94 | 54.00 | -0.06 | 23.01 | 2.91 | 28.02 | 0.00 | 312 | 222 | Average | HORIZONTAL |
| 4 | 2486.30 | 68.16 | 74.00 | -5.84 | 37.23 | 2.91 | 28.02 | 0.00 | 312 | 222 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Beamforming Mode>: 3TX, 1S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |
| Test date | Jul. 112015 | | |

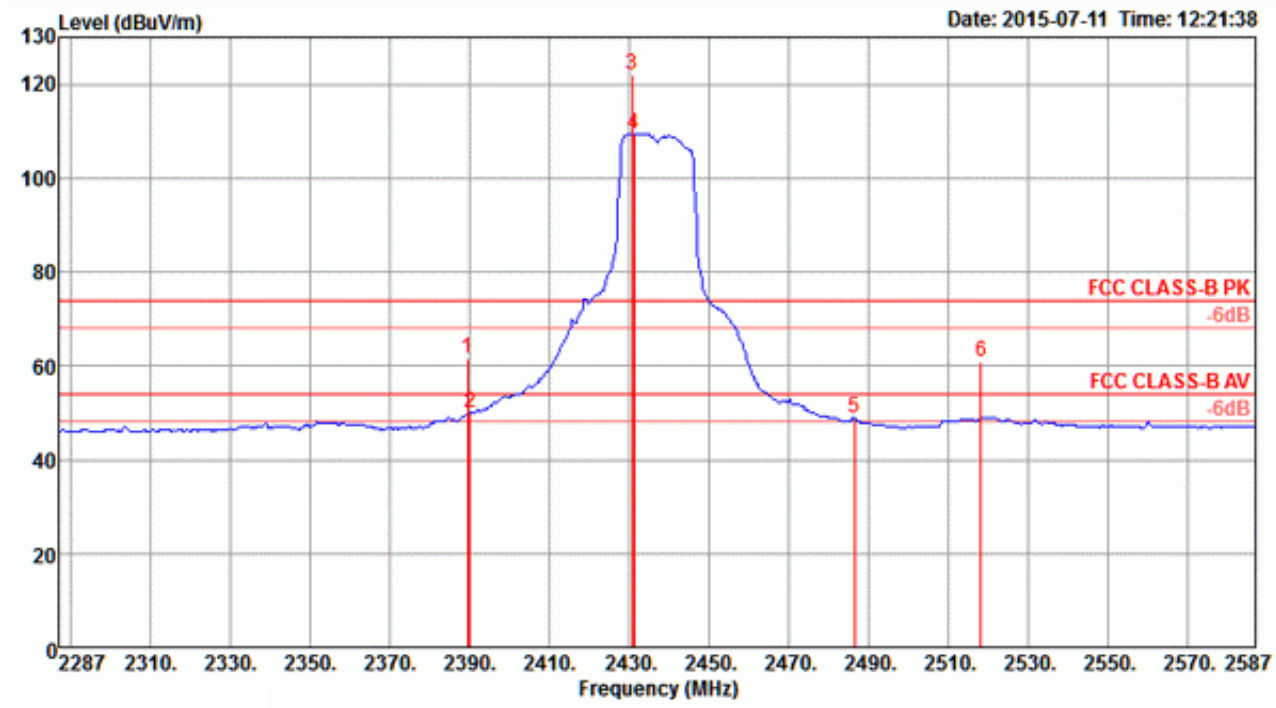
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2389.84 | 67.25 | 74.00 | -6.75 | 36.25 | 2.86 | 28.14 | 0.00 | 303 | 210 | Peak | HORIZONTAL |
| 2 | 2389.84 | 53.62 | 54.00 | -0.38 | 22.62 | 2.86 | 28.14 | 0.00 | 303 | 210 | Average | HORIZONTAL |
| 3 | 2414.89 | 115.39 | | | 84.40 | 2.87 | 28.12 | 0.00 | 303 | 210 | Peak | HORIZONTAL |
| 4 | 2417.45 | 103.69 | | | 72.70 | 2.87 | 28.12 | 0.00 | 303 | 210 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

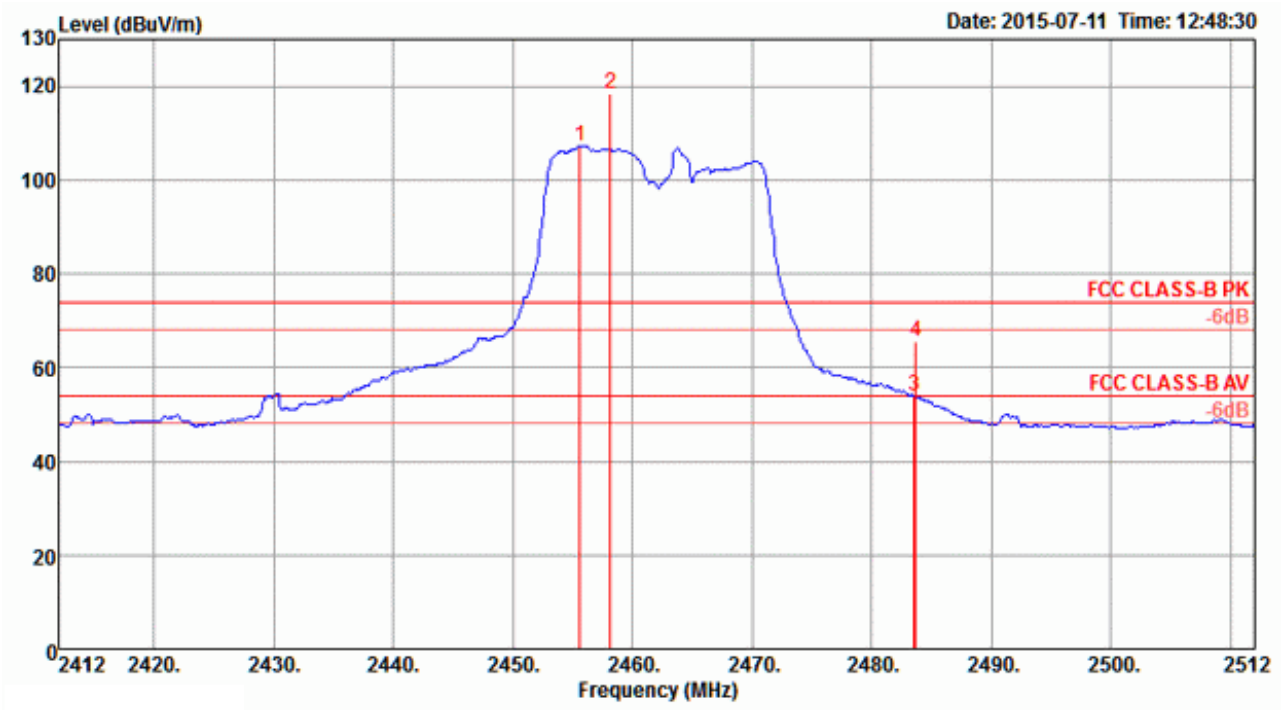
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2389.40 | 61.50 | 74.00 | -12.50 | 30.50 | 2.86 | 28.14 | 0.00 | 59 | 229 | Peak | HORIZONTAL |
| 2 | 2390.00 | 49.90 | 54.00 | -4.10 | 18.90 | 2.86 | 28.14 | 0.00 | 59 | 229 | Average | HORIZONTAL |
| 3 | 2430.75 | 122.02 | | | 91.04 | 2.88 | 28.10 | 0.00 | 59 | 229 | Peak | HORIZONTAL |
| 4 | 2431.23 | 109.50 | | | 78.52 | 2.88 | 28.10 | 0.00 | 59 | 229 | Average | HORIZONTAL |
| 5 | 2486.39 | 48.94 | 54.00 | -5.06 | 18.01 | 2.91 | 28.02 | 0.00 | 59 | 229 | Average | HORIZONTAL |
| 6 | 2518.25 | 60.83 | 74.00 | -13.17 | 29.86 | 2.93 | 28.04 | 0.00 | 59 | 229 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

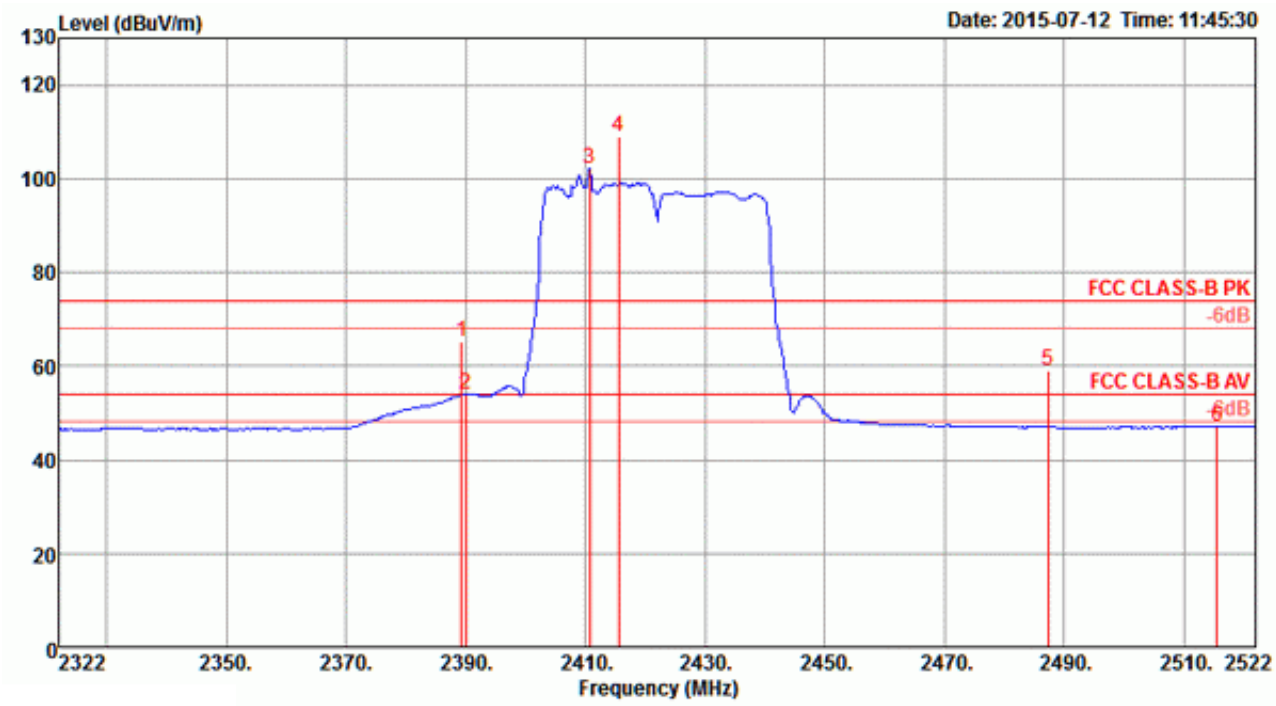



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2455.59 | 107.35 | | | 76.40 | 2.90 | 28.05 | 0.00 | 308 | 190 | Average | HORIZONTAL |
| 2 | 2458.15 | 118.36 | ----- | ----- | 87.41 | 2.90 | 28.05 | 0.00 | 308 | 190 | Peak | HORIZONTAL |
| 3 | 2483.50 | 53.80 | 54.00 | -0.20 | 22.87 | 2.91 | 28.02 | 0.00 | 308 | 190 | Average | HORIZONTAL |
| 4 | 2483.66 | 65.40 | 74.00 | -8.60 | 34.47 | 2.91 | 28.02 | 0.00 | 308 | 190 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22℃ | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 |
| Test date | Jul. 11, 2015 | | |

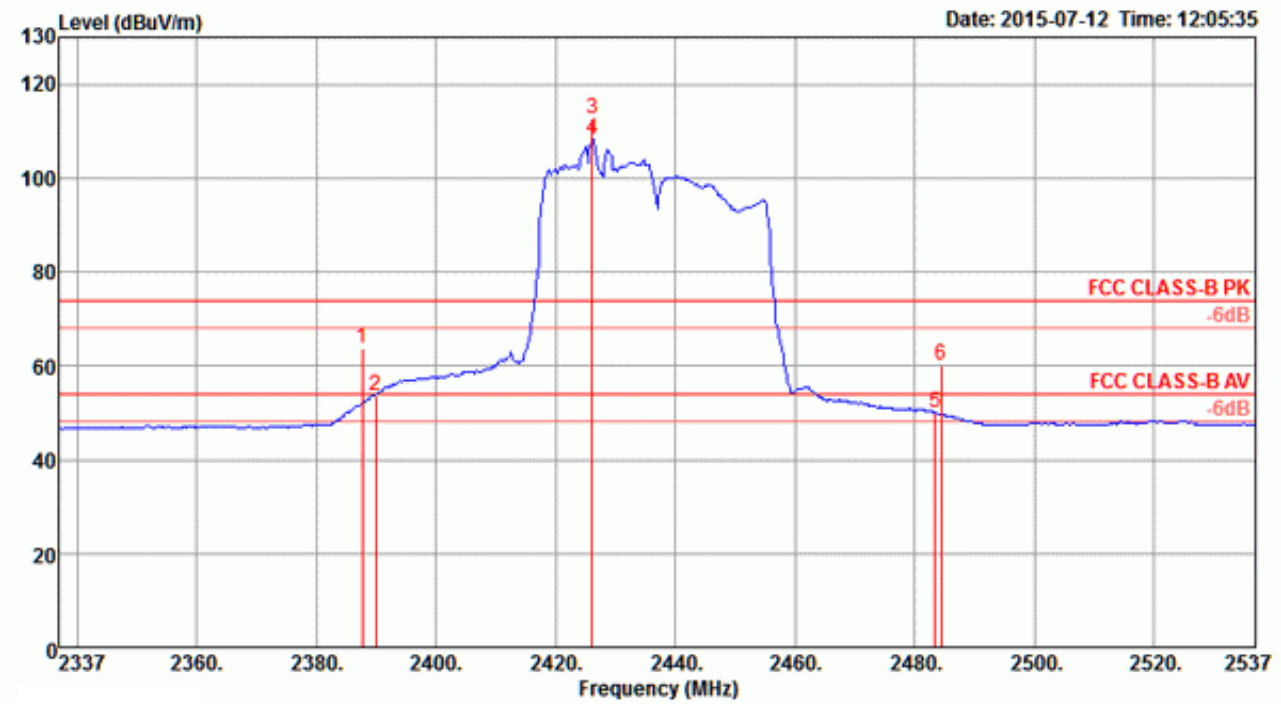
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | Cm | | |
| 1 | 2389.31 | 65.35 | 74.00 | -8.65 | 34.35 | 2.86 | 28.14 | 0.00 | 304 | 190 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.89 | 54.00 | -0.11 | 22.89 | 2.86 | 28.14 | 0.00 | 304 | 190 | Average | HORIZONTAL |
| 3 | 2410.78 | 102.18 | | | 71.19 | 2.87 | 28.12 | 0.00 | 304 | 190 | Average | HORIZONTAL |
| 4 | 2415.59 | 109.08 | | | 78.09 | 2.87 | 28.12 | 0.00 | 304 | 190 | Peak | HORIZONTAL |
| 5 | 2487.39 | 59.18 | 74.00 | -14.82 | 28.25 | 2.91 | 28.02 | 0.00 | 304 | 190 | Peak | HORIZONTAL |
| 6 | 2515.59 | 47.21 | 54.00 | -6.79 | 16.24 | 2.93 | 28.04 | 0.00 | 304 | 190 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

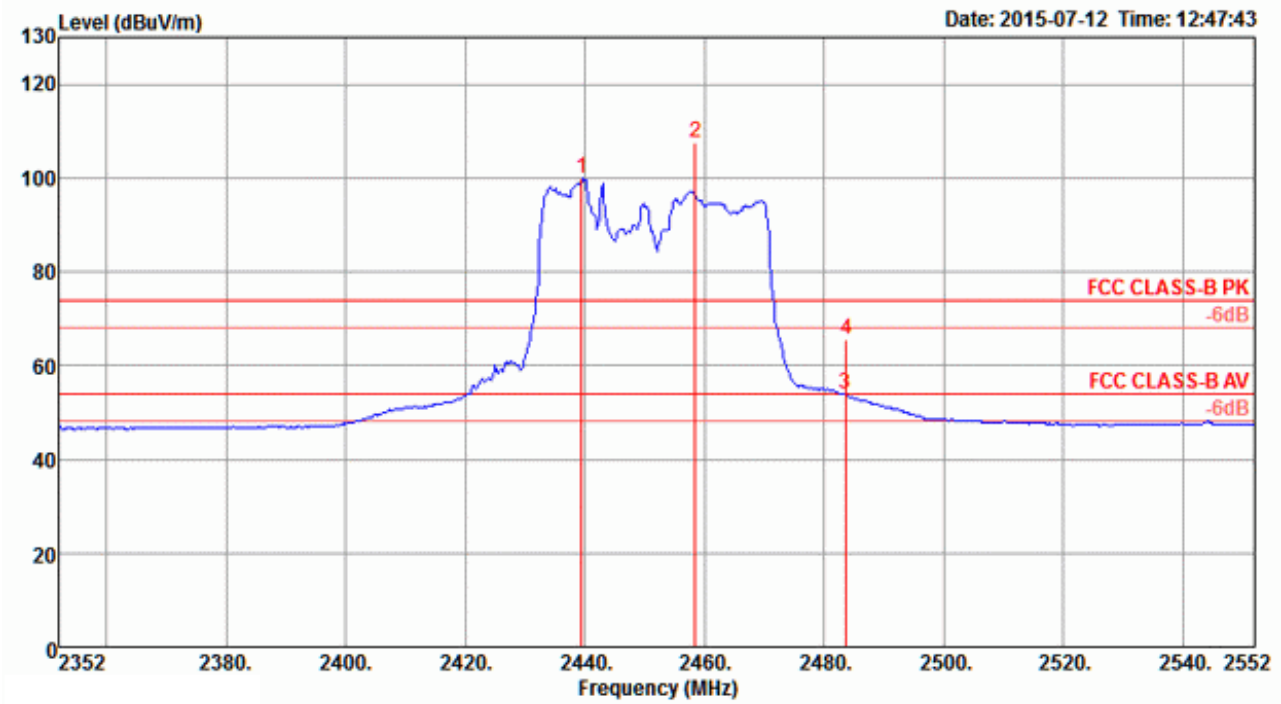
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2387.64 | 63.67 | 74.00 | -10.33 | 32.67 | 2.86 | 28.14 | 0.00 | 51 | 195 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.75 | 54.00 | -0.25 | 22.75 | 2.86 | 28.14 | 0.00 | 51 | 195 | Average | HORIZONTAL |
| 3 | 2426.10 | 112.68 | | | 81.70 | 2.88 | 28.10 | 0.00 | 51 | 195 | Peak | HORIZONTAL |
| 4 | 2426.10 | 108.11 | | | 77.13 | 2.88 | 28.10 | 0.00 | 51 | 195 | Average | HORIZONTAL |
| 5 | 2483.50 | 49.98 | 54.00 | -4.02 | 19.05 | 2.91 | 28.02 | 0.00 | 51 | 195 | Average | HORIZONTAL |
| 6 | 2484.44 | 60.11 | 74.00 | -13.89 | 29.18 | 2.91 | 28.02 | 0.00 | 51 | 195 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



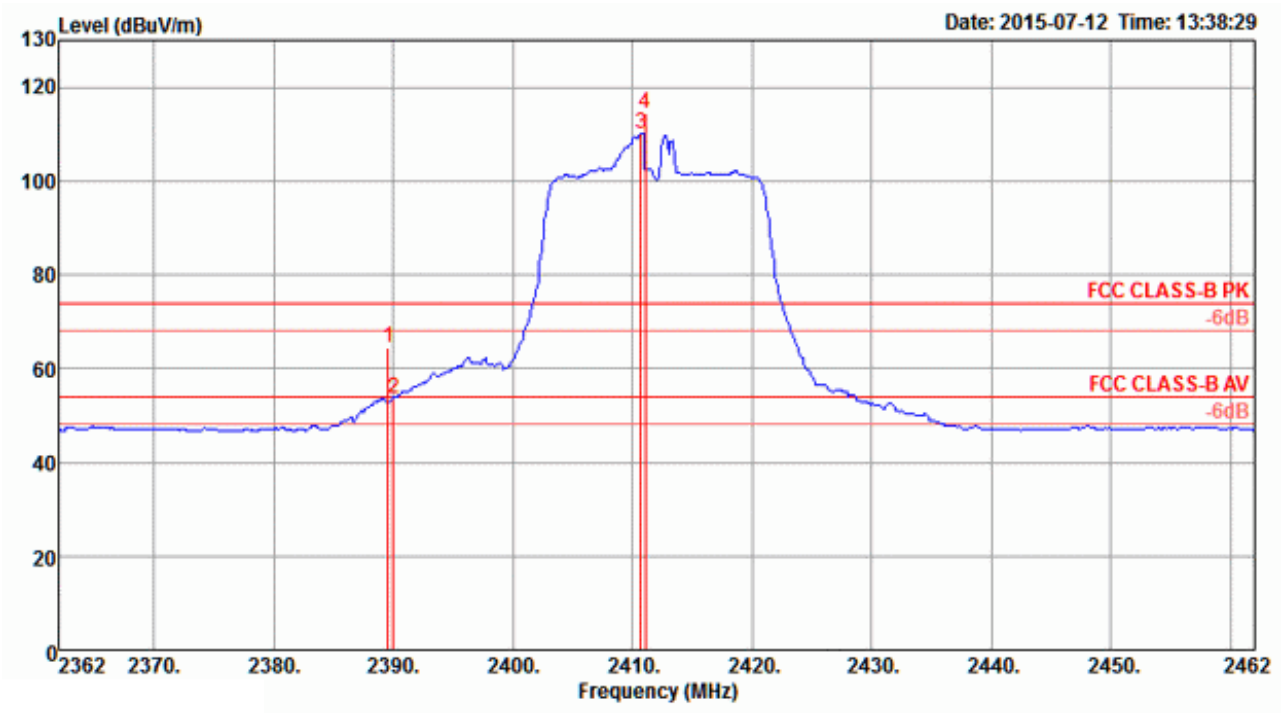

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2439.50 | 99.81 | | | 68.85 | 2.89 | 28.07 | 0.00 | 57 | 124 | Average | HORIZONTAL |
| 2 | 2458.41 | 107.67 | | | 76.72 | 2.90 | 28.05 | 0.00 | 57 | 124 | Peak | HORIZONTAL |
| 3 | 2483.50 | 53.83 | 54.00 | -0.17 | 22.90 | 2.91 | 28.02 | 0.00 | 57 | 124 | Average | HORIZONTAL |
| 4 | 2483.73 | 65.53 | 74.00 | -8.47 | 34.60 | 2.91 | 28.02 | 0.00 | 57 | 124 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 1 Beamforming Mode>: 3TX, 2S

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT20 CH 1, 6, 11 / Chain 1 + Chain 2 + Chain 3 |

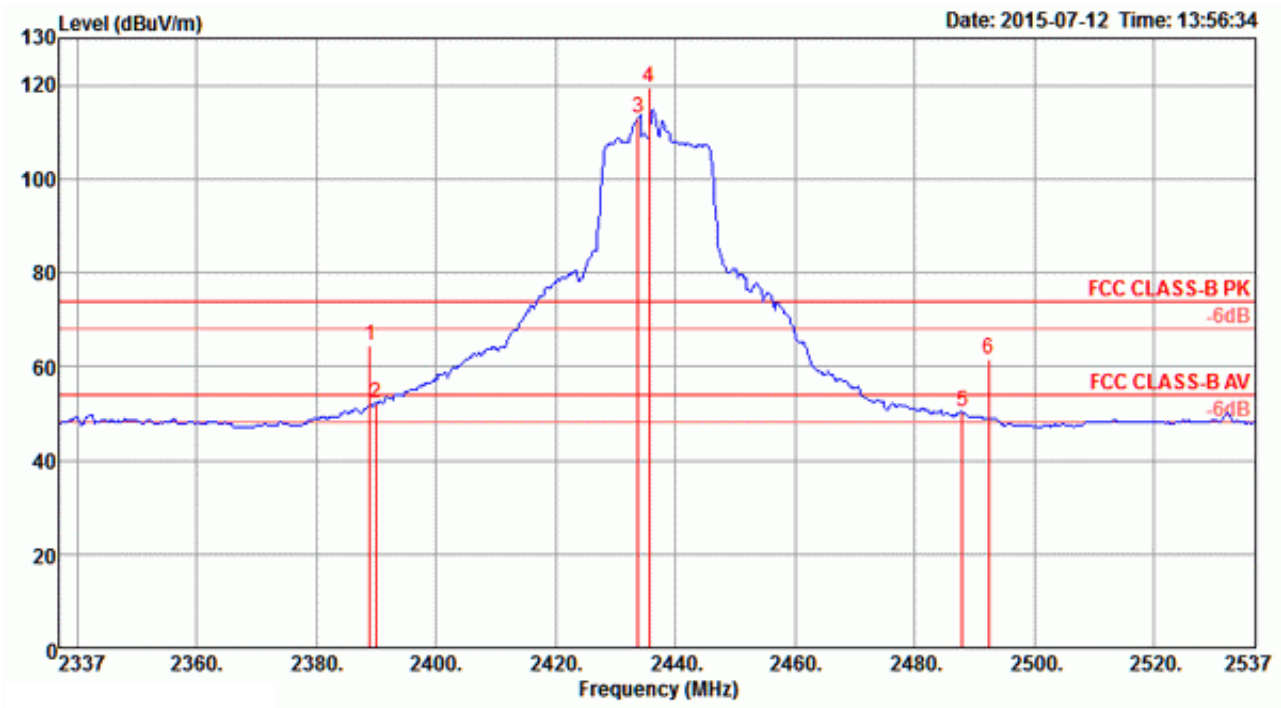
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2389.56 | 64.56 | 74.00 | -9.44 | 33.56 | 2.86 | 28.14 | 0.00 | 67 | 197 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.75 | 54.00 | -0.25 | 22.75 | 2.86 | 28.14 | 0.00 | 67 | 197 | Average | HORIZONTAL |
| 3 | 2410.72 | 110.13 | | | 79.14 | 2.87 | 28.12 | 0.00 | 67 | 197 | Average | HORIZONTAL |
| 4 | 2411.04 | 114.31 | | | 83.32 | 2.87 | 28.12 | 0.00 | 67 | 197 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

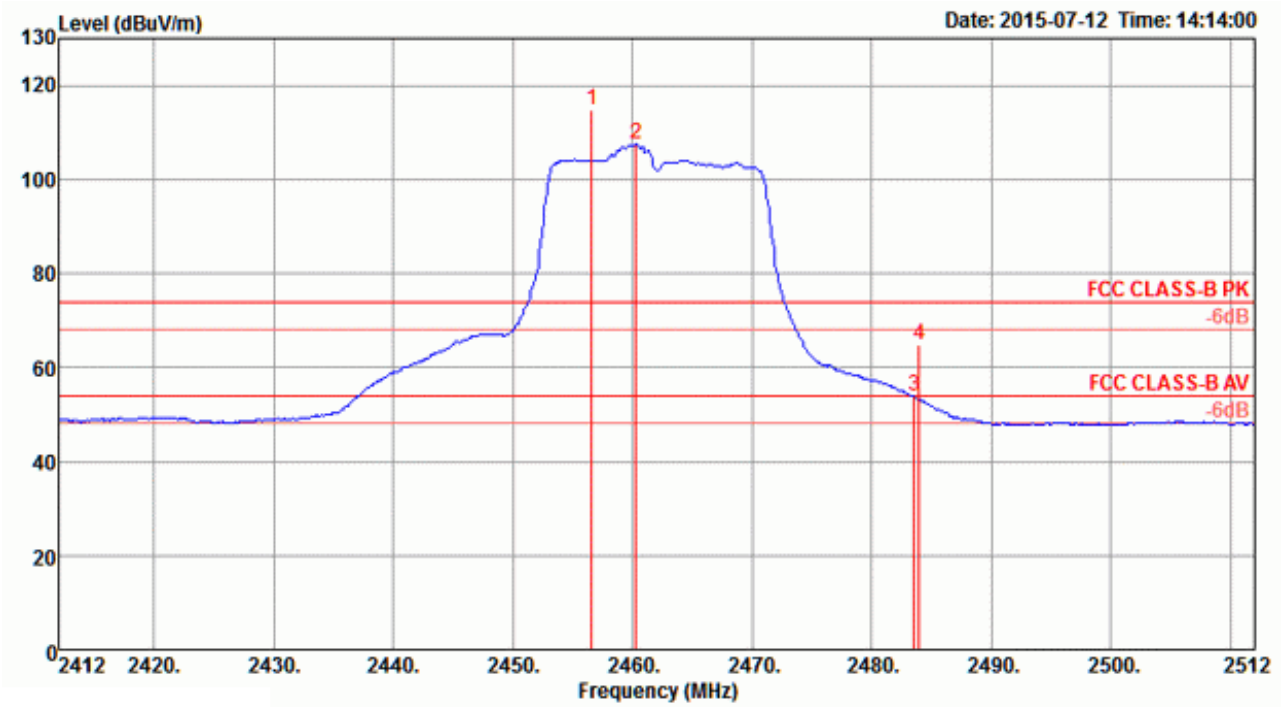
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2388.92 | 64.28 | 74.00 | -9.72 | 33.28 | 2.86 | 28.14 | 0.00 | 300 | 192 | Peak | HORIZONTAL |
| 2 | 2390.00 | 51.96 | 54.00 | -2.04 | 20.96 | 2.86 | 28.14 | 0.00 | 300 | 192 | Average | HORIZONTAL |
| 3 | 2433.80 | 113.13 | | | 82.15 | 2.88 | 28.10 | 0.00 | 300 | 192 | Average | HORIZONTAL |
| 4 | 2435.72 | 119.45 | | | 88.47 | 2.88 | 28.10 | 0.00 | 300 | 192 | Peak | HORIZONTAL |
| 5 | 2487.96 | 50.16 | 54.00 | -3.84 | 19.24 | 2.92 | 28.00 | 0.00 | 300 | 192 | Average | HORIZONTAL |
| 6 | 2492.45 | 61.56 | 74.00 | -12.44 | 30.64 | 2.92 | 28.00 | 0.00 | 300 | 192 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

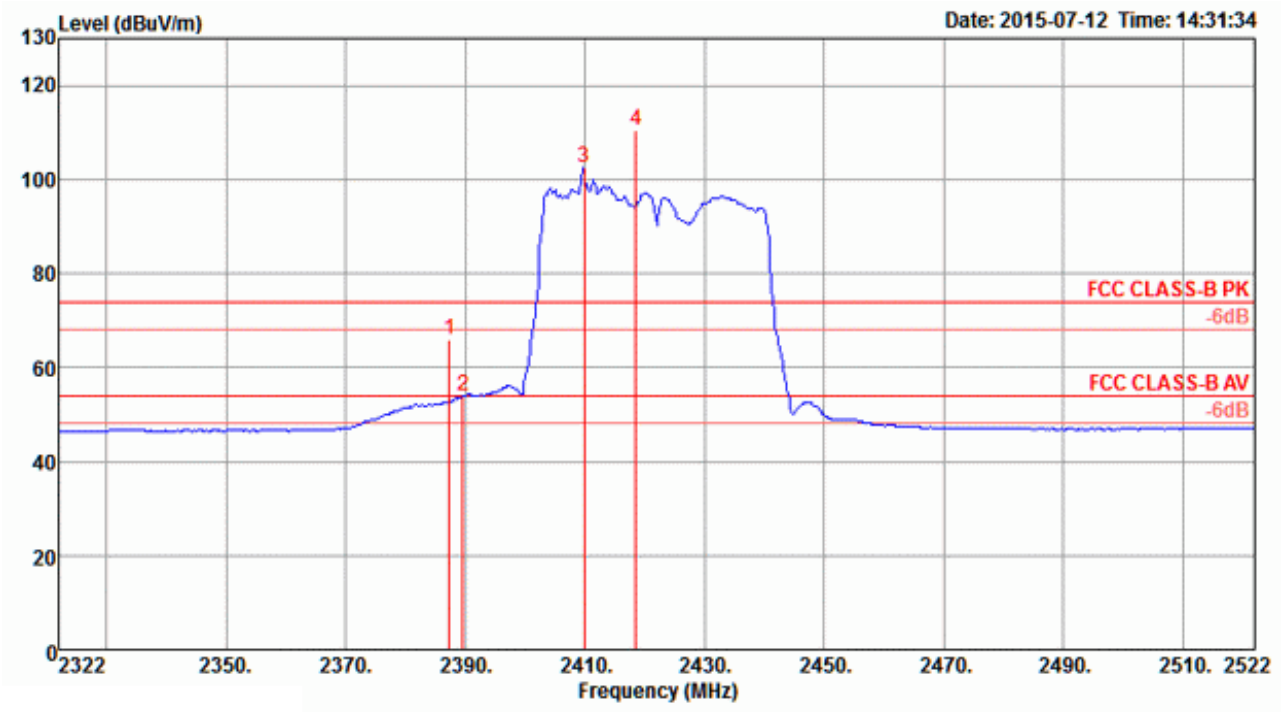



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2456.55 | 114.97 | | | 84.02 | 2.90 | 28.05 | 0.00 | 313 | 190 | Peak | HORIZONTAL |
| 2 | 2460.24 | 107.43 | | | 76.48 | 2.90 | 28.05 | 0.00 | 313 | 190 | Average | HORIZONTAL |
| 3 | 2483.50 | 53.93 | 54.00 | -0.07 | 23.00 | 2.91 | 28.02 | 0.00 | 313 | 190 | Average | HORIZONTAL |
| 4 | 2483.96 | 64.79 | 74.00 | -9.21 | 33.86 | 2.91 | 28.02 | 0.00 | 313 | 190 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22℃ | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss2 VHT40 CH 3, 6, 9 / Chain 1 + Chain 2 + Chain 3 |

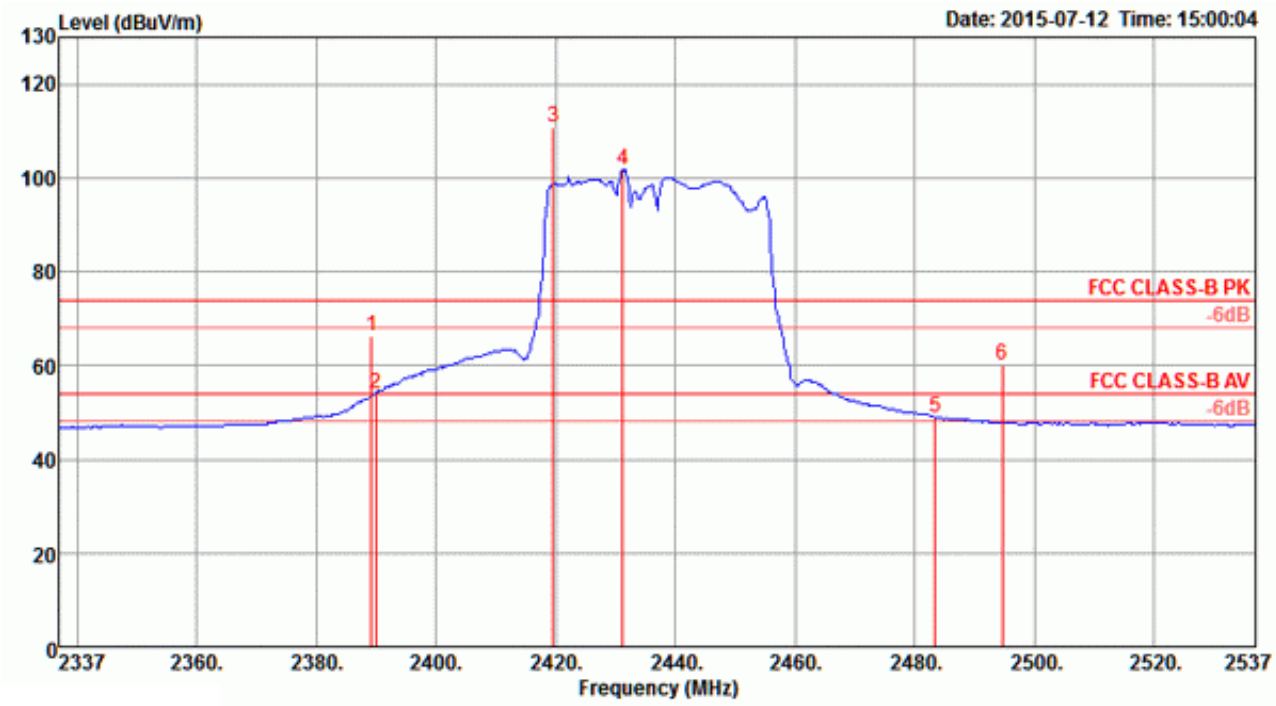
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2387.39 | 65.78 | 74.00 | -8.22 | 34.78 | 2.86 | 28.14 | 0.00 | 311 | 191 | Peak | HORIZONTAL |
| 2 | 2389.63 | 53.81 | 54.00 | -0.19 | 22.81 | 2.86 | 28.14 | 0.00 | 311 | 191 | Average | HORIZONTAL |
| 3 | 2409.82 | 102.50 | | | 71.51 | 2.87 | 28.12 | 0.00 | 311 | 191 | Average | HORIZONTAL |
| 4 | 2418.47 | 110.49 | | | 79.50 | 2.87 | 28.12 | 0.00 | 311 | 191 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

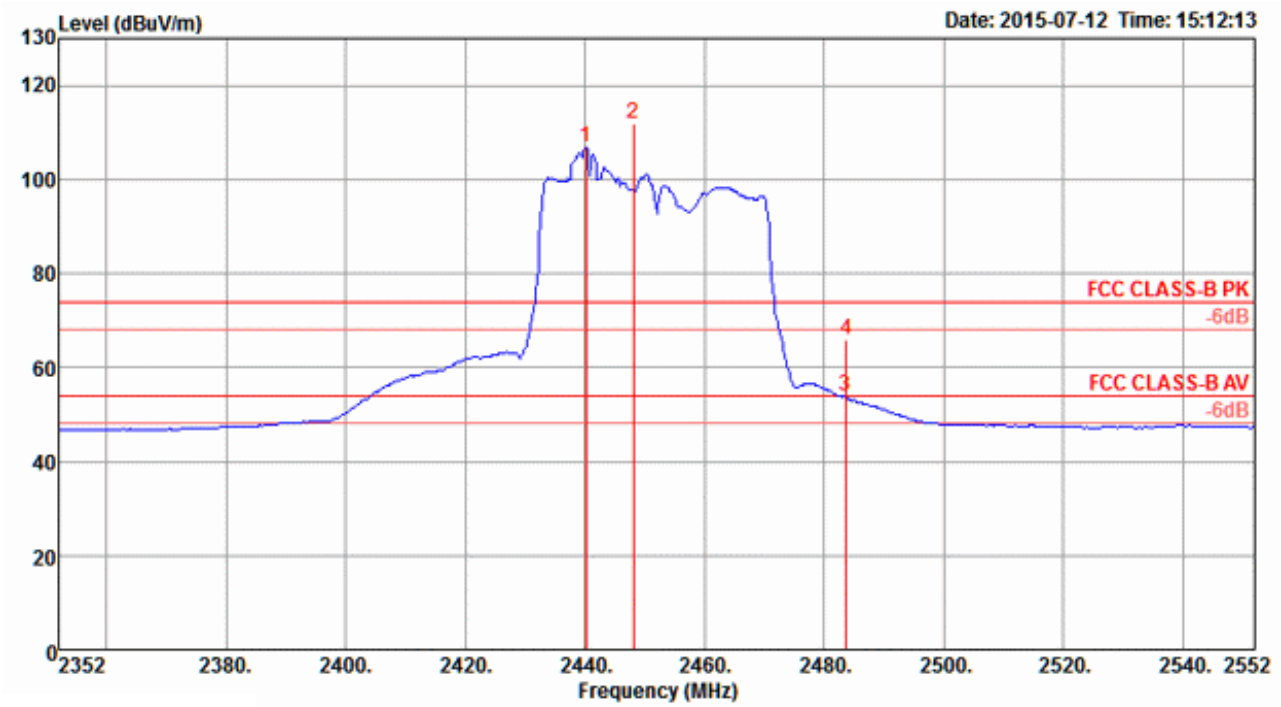
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2389.24 | 66.14 | 74.00 | -7.86 | 35.14 | 2.86 | 28.14 | 0.00 | 310 | 193 | Peak | HORIZONTAL |
| 2 | 2390.00 | 53.92 | 54.00 | -0.08 | 22.92 | 2.86 | 28.14 | 0.00 | 310 | 193 | Average | HORIZONTAL |
| 3 | 2419.69 | 110.69 | | | 79.71 | 2.88 | 28.10 | 0.00 | 310 | 193 | Peak | HORIZONTAL |
| 4 | 2431.23 | 101.85 | | | 70.87 | 2.88 | 28.10 | 0.00 | 310 | 193 | Average | HORIZONTAL |
| 5 | 2483.50 | 48.98 | 54.00 | -5.02 | 18.05 | 2.91 | 28.02 | 0.00 | 310 | 193 | Average | HORIZONTAL |
| 6 | 2494.69 | 60.28 | 74.00 | -13.72 | 29.36 | 2.92 | 28.00 | 0.00 | 310 | 193 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 9



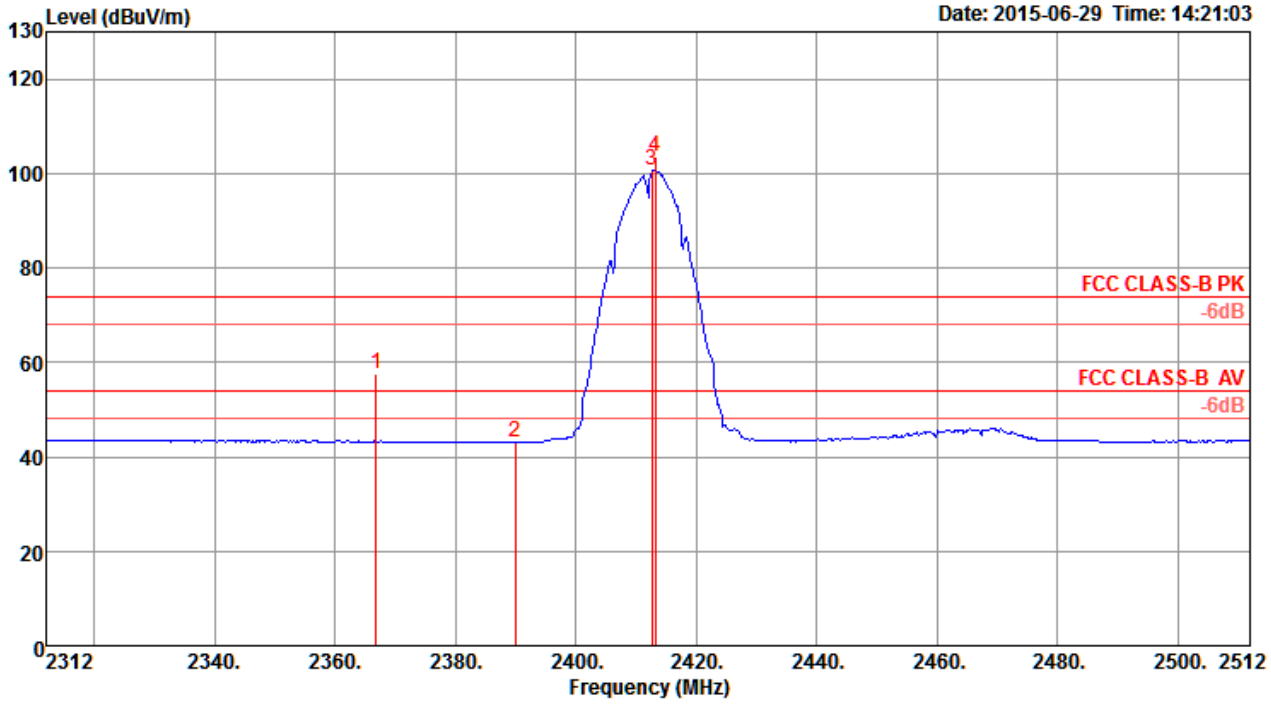

| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2440.14 | 106.77 | | | 75.81 | 2.89 | 28.07 | 0.00 | 319 | 190 | Average | HORIZONTAL |
| 2 | 2448.15 | 111.89 | | | 80.93 | 2.89 | 28.07 | 0.00 | 319 | 190 | Peak | HORIZONTAL |
| 3 | 2483.50 | 53.95 | 54.00 | -0.05 | 23.02 | 2.91 | 28.02 | 0.00 | 319 | 190 | Average | HORIZONTAL |
| 4 | 2483.73 | 66.02 | 74.00 | -7.98 | 35.09 | 2.91 | 28.02 | 0.00 | 319 | 190 | Peak | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2452 MHz.

<For Radio 3>

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11b CH 1, 6, 11 / Chain 7 |

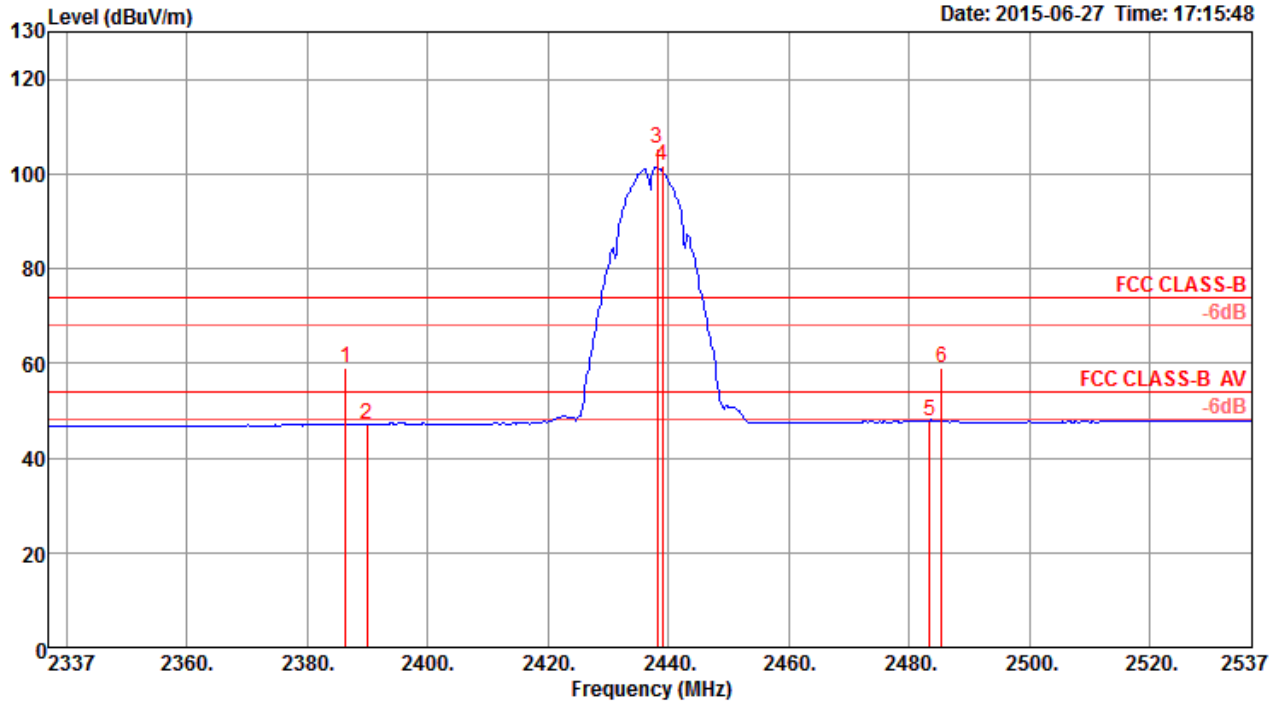
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2366.85 | 57.73 | 74.00 | -16.27 | 26.71 | 2.83 | 28.19 | 0.00 | 200 | 100 | Peak | HORIZONTAL |
| 2 | 2390.00 | 43.24 | 54.00 | -10.76 | 12.24 | 2.86 | 28.14 | 0.00 | 200 | 100 | Average | HORIZONTAL |
| 3 | 2412.58 | 100.73 | | | 69.74 | 2.87 | 28.12 | 0.00 | 200 | 100 | Average | HORIZONTAL |
| 4 | 2413.16 | 103.54 | | | 72.55 | 2.87 | 28.12 | 0.00 | 200 | 100 | Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

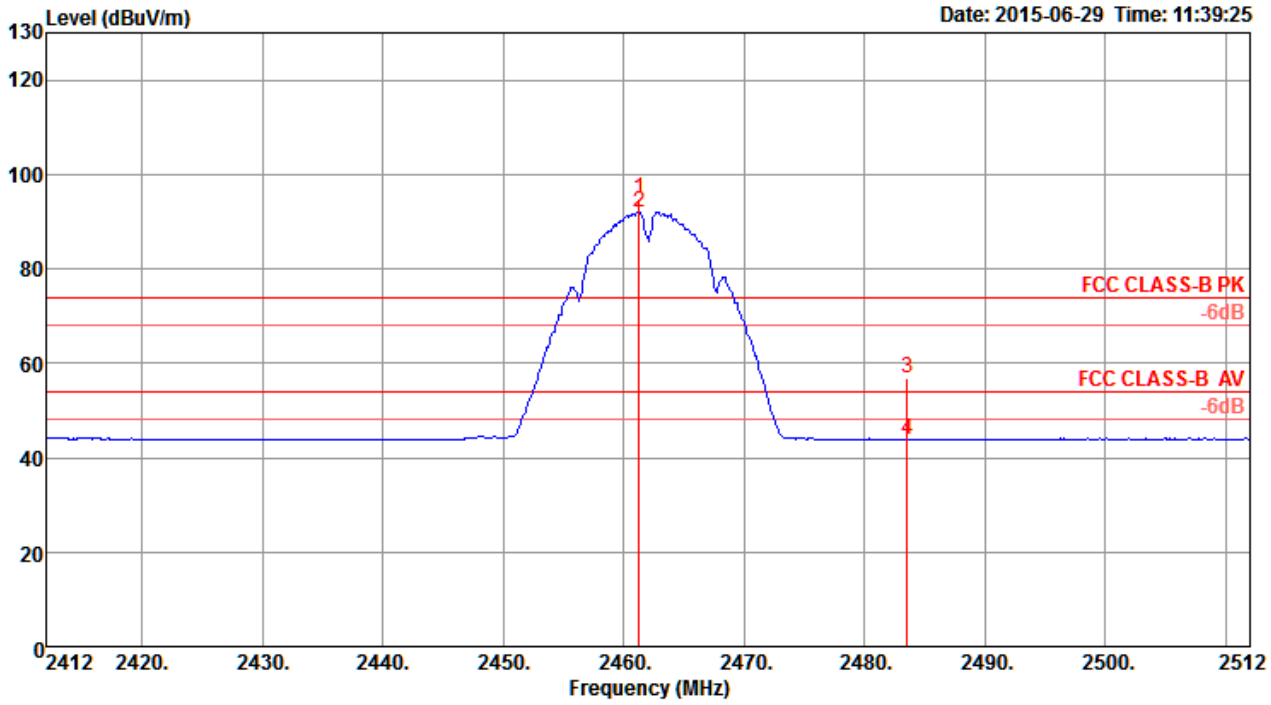
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2386.47 | 59.12 | 74.00 | -14.88 | 26.82 | 4.09 | 28.21 | 0.00 | Peak | 116 | 18 | HORIZONTAL |
| 2 | 2390.00 | 47.07 | 54.00 | -6.93 | 14.77 | 4.09 | 28.21 | 0.00 | Average | 40 | 18 | HORIZONTAL |
| 3 | 2438.14 | 105.48 | | | 73.04 | 4.13 | 28.31 | 0.00 | Peak | 116 | 18 | HORIZONTAL |
| 4 | 2439.00 | 101.86 | | | 69.42 | 4.13 | 28.31 | 0.00 | Average | 116 | 18 | HORIZONTAL |
| 5 | 2483.50 | 47.82 | 54.00 | -6.18 | 15.29 | 4.16 | 28.37 | 0.00 | Average | 116 | 18 | HORIZONTAL |
| 6 | 2485.42 | 59.01 | 74.00 | -14.99 | 26.48 | 4.16 | 28.37 | 0.00 | Peak | 116 | 18 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

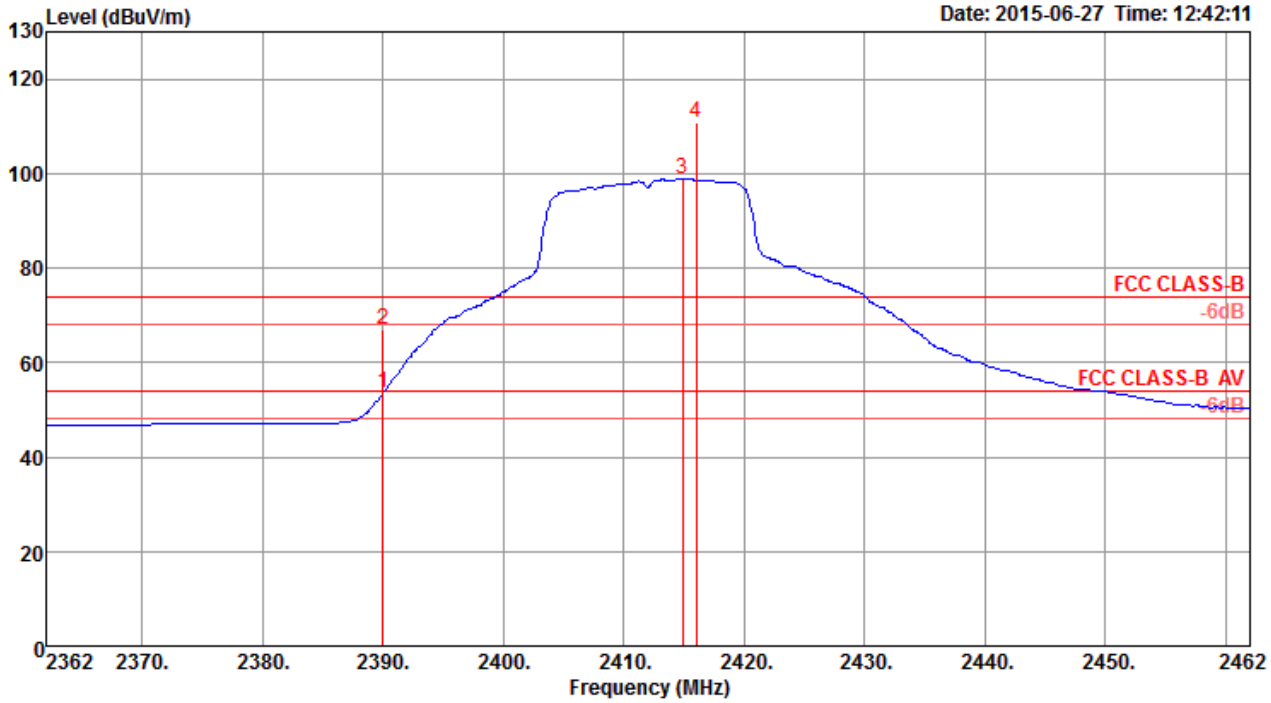



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2461.28 | 94.71 | | | 63.76 | 2.90 | 28.05 | 0.00 | 33 | 117 | Peak | VERTICAL |
| 2 | 2461.28 | 92.08 | | | 61.13 | 2.90 | 28.05 | 0.00 | 33 | 117 | Average | VERTICAL |
| 3 | 2483.50 | 56.71 | 74.00 | -17.29 | 25.78 | 2.91 | 28.02 | 0.00 | 33 | 117 | Peak | VERTICAL |
| 4 | 2483.50 | 43.80 | 54.00 | -10.20 | 12.87 | 2.91 | 28.02 | 0.00 | 33 | 117 | Average | VERTICAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11g CH 1, 6, 11 / Chain 7 |

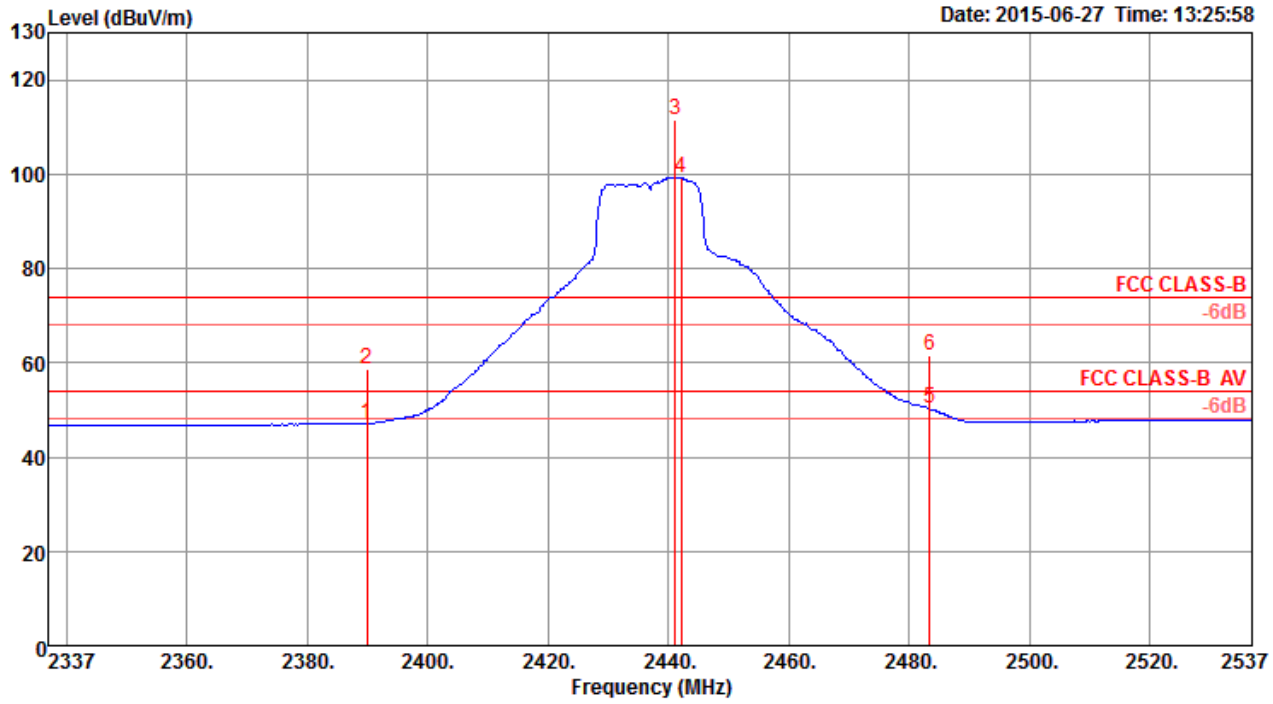
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.50 | 54.00 | -0.50 | 21.20 | 4.09 | 28.21 | 0.00 | Average | 115 | 26 | HORIZONTAL |
| 2 | 2390.00 | 66.98 | 74.00 | -7.02 | 34.68 | 4.09 | 28.21 | 0.00 | Peak | 115 | 26 | HORIZONTAL |
| 3 | 2414.89 | 98.93 | | | 66.58 | 4.11 | 28.24 | 0.00 | Average | 115 | 26 | HORIZONTAL |
| 4 | 2416.01 | 110.91 | | | 78.56 | 4.11 | 28.24 | 0.00 | Peak | 115 | 26 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

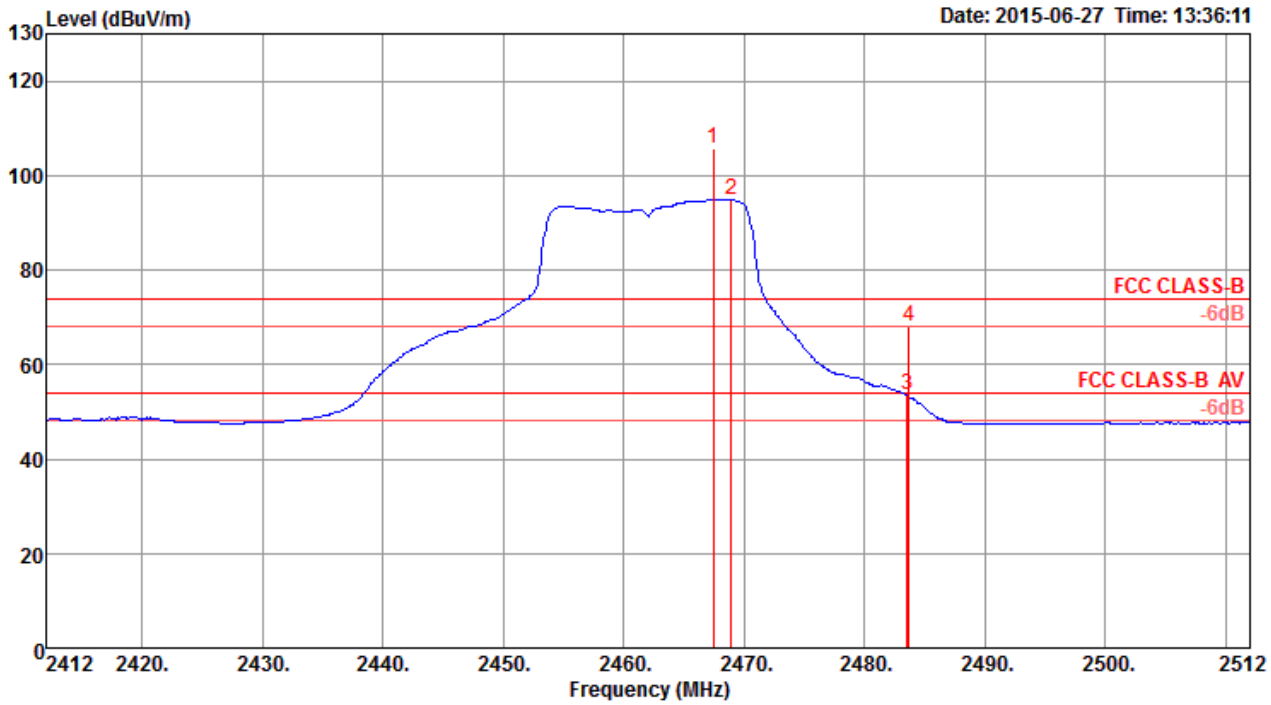
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 47.13 | 54.00 | -6.87 | 14.83 | 4.09 | 28.21 | 0.00 | Average | 131 | 16 | HORIZONTAL |
| 2 | 2390.00 | 58.75 | 74.00 | -15.25 | 26.45 | 4.09 | 28.21 | 0.00 | Peak | 131 | 16 | HORIZONTAL |
| 3 | 2441.17 | 111.52 | | | 79.08 | 4.13 | 28.31 | 0.00 | Peak | 131 | 16 | HORIZONTAL |
| 4 | 2442.21 | 99.14 | | | 66.70 | 4.13 | 28.31 | 0.00 | Average | 131 | 16 | HORIZONTAL |
| 5 | 2483.50 | 50.16 | 54.00 | -3.84 | 17.63 | 4.16 | 28.37 | 0.00 | Average | 131 | 16 | HORIZONTAL |
| 6 | 2483.50 | 61.42 | 74.00 | -12.58 | 28.89 | 4.16 | 28.37 | 0.00 | Peak | 131 | 16 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

## Channel 11

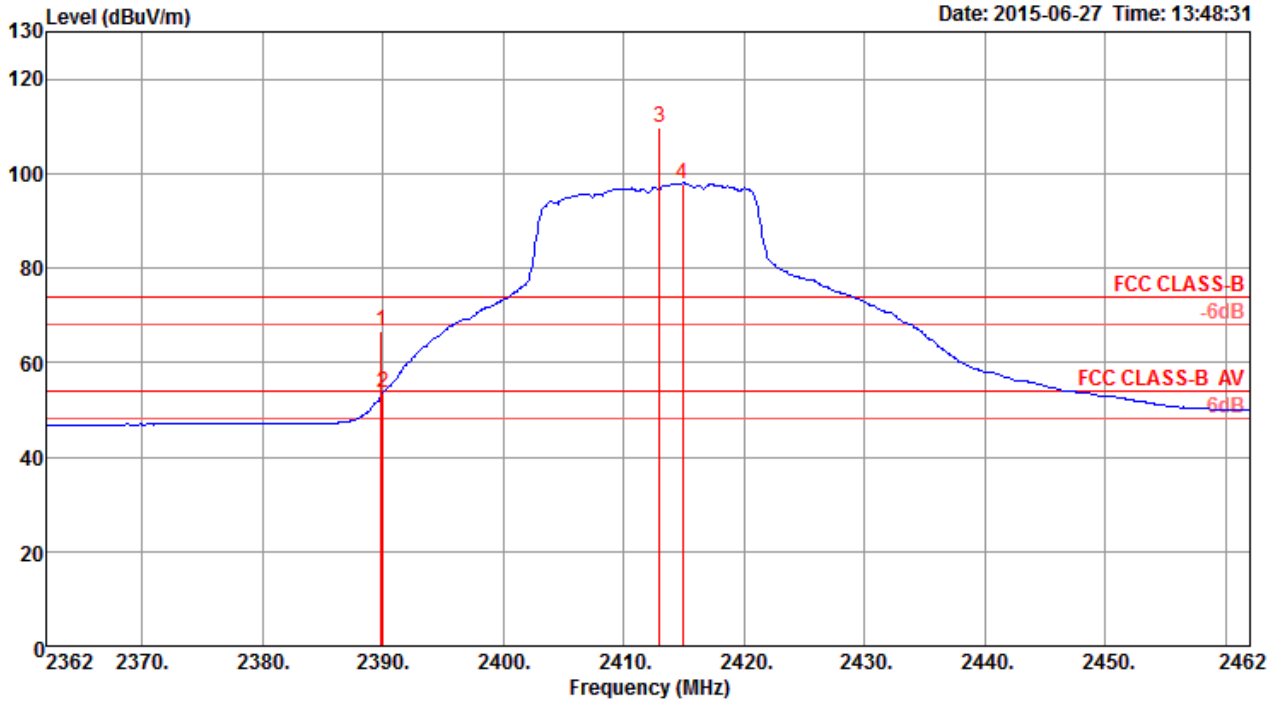



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2467.45 | 105.91 | | | 73.43 | 4.14 | 28.34 | 0.00 | Peak | 138 | 12 | HORIZONTAL |
| 2 | 2468.89 | 94.88 | | | 62.40 | 4.14 | 28.34 | 0.00 | Average | 138 | 12 | HORIZONTAL |
| 3 | 2483.50 | 53.60 | 54.00 | -0.40 | 21.07 | 4.16 | 28.37 | 0.00 | Average | 138 | 12 | HORIZONTAL |
| 4 | 2483.66 | 67.97 | 74.00 | -6.03 | 35.44 | 4.16 | 28.37 | 0.00 | Peak | 138 | 12 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Chain 7 |

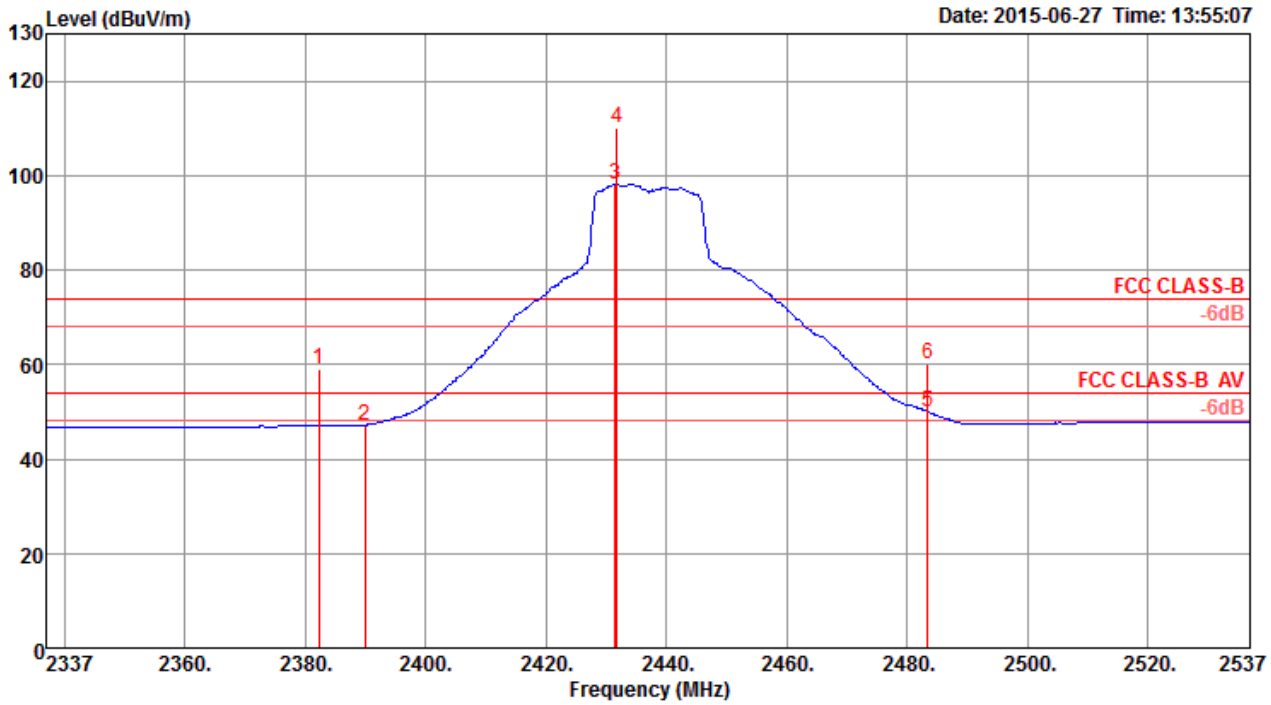
Channel 1




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2389.84 | 66.46 | 74.00 | -7.54 | 34.16 | 4.09 | 28.21 | 0.00 | Peak | 117 | 25 | HORIZONTAL |
| 2 | 2390.00 | 53.59 | 54.00 | -0.41 | 21.29 | 4.09 | 28.21 | 0.00 | Average | 117 | 25 | HORIZONTAL |
| 3 | 2412.96 | 109.84 | | | 77.49 | 4.11 | 28.24 | 0.00 | Peak | 117 | 25 | HORIZONTAL |
| 4 | 2414.89 | 97.87 | | | 65.52 | 4.11 | 28.24 | 0.00 | Average | 117 | 25 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2412 MHz.

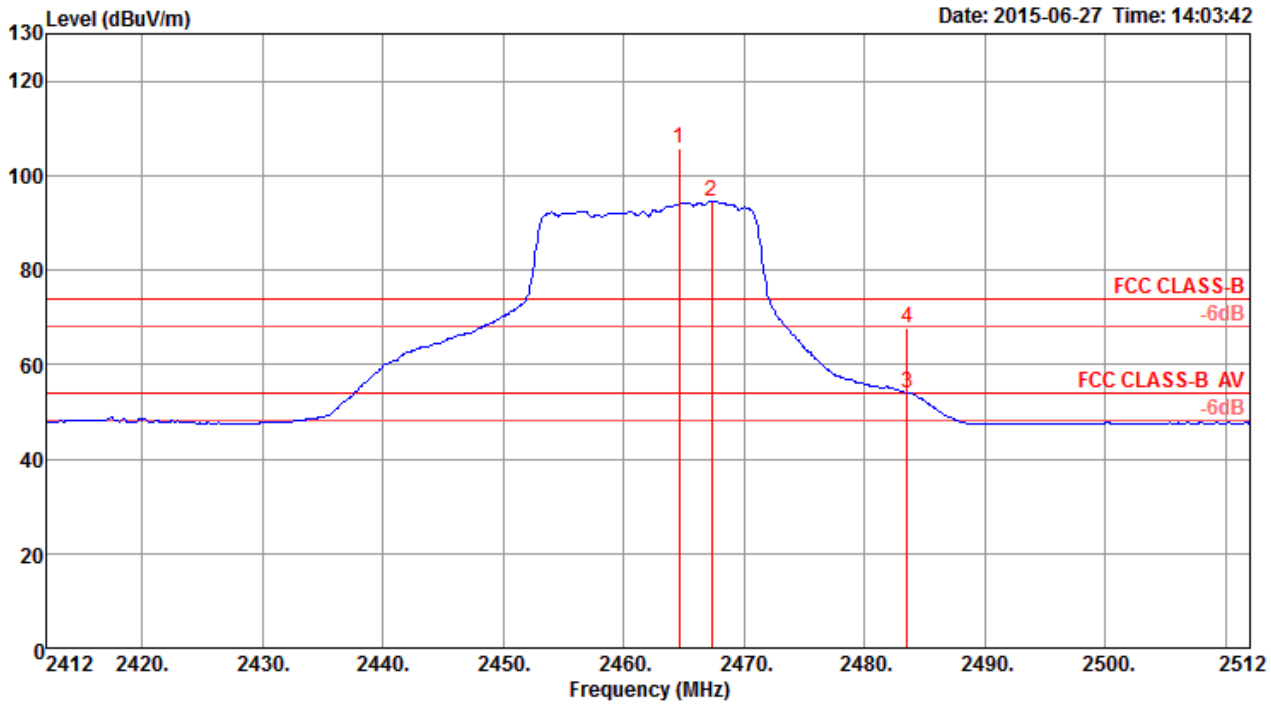
Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2382.31 | 58.96 | 74.00 | -15.04 | 26.70 | 4.08 | 28.18 | 0.00 | Peak | 112 | 38 | HORIZONTAL |
| 2 | 2390.00 | 47.18 | 54.00 | -6.82 | 14.88 | 4.09 | 28.21 | 0.00 | Average | 112 | 38 | HORIZONTAL |
| 3 | 2431.55 | 98.18 | | | 65.78 | 4.12 | 28.28 | 0.00 | Average | 112 | 38 | HORIZONTAL |
| 4 | 2431.87 | 109.95 | | | 77.55 | 4.12 | 28.28 | 0.00 | Peak | 112 | 38 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11

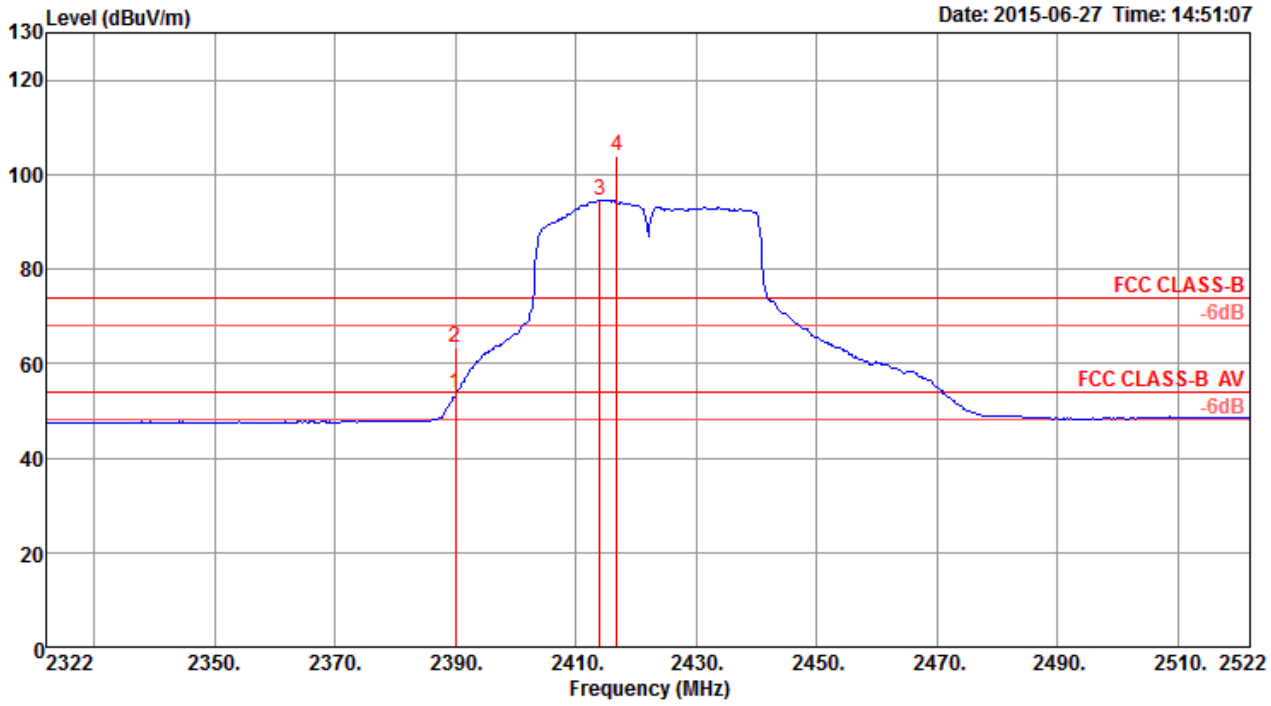



| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2464.56 | 105.76 | | | 73.28 | 4.14 | 28.34 | 0.00 | Peak | 170 | 30 | HORIZONTAL |
| 2 | 2467.29 | 94.58 | | | 62.10 | 4.14 | 28.34 | 0.00 | Average | 170 | 30 | HORIZONTAL |
| 3 | 2483.50 | 53.97 | 54.00 | -0.03 | 21.44 | 4.16 | 28.37 | 0.00 | Average | 170 | 30 | HORIZONTAL |
| 4 | 2483.50 | 67.70 | 74.00 | -6.30 | 35.17 | 4.16 | 28.37 | 0.00 | Peak | 170 | 30 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2462 MHz.

| Temperature | 22°C | Humidity | 55% |
|---|---|---|---|
| Test Engineer | Stim Sung | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Chain 7 |

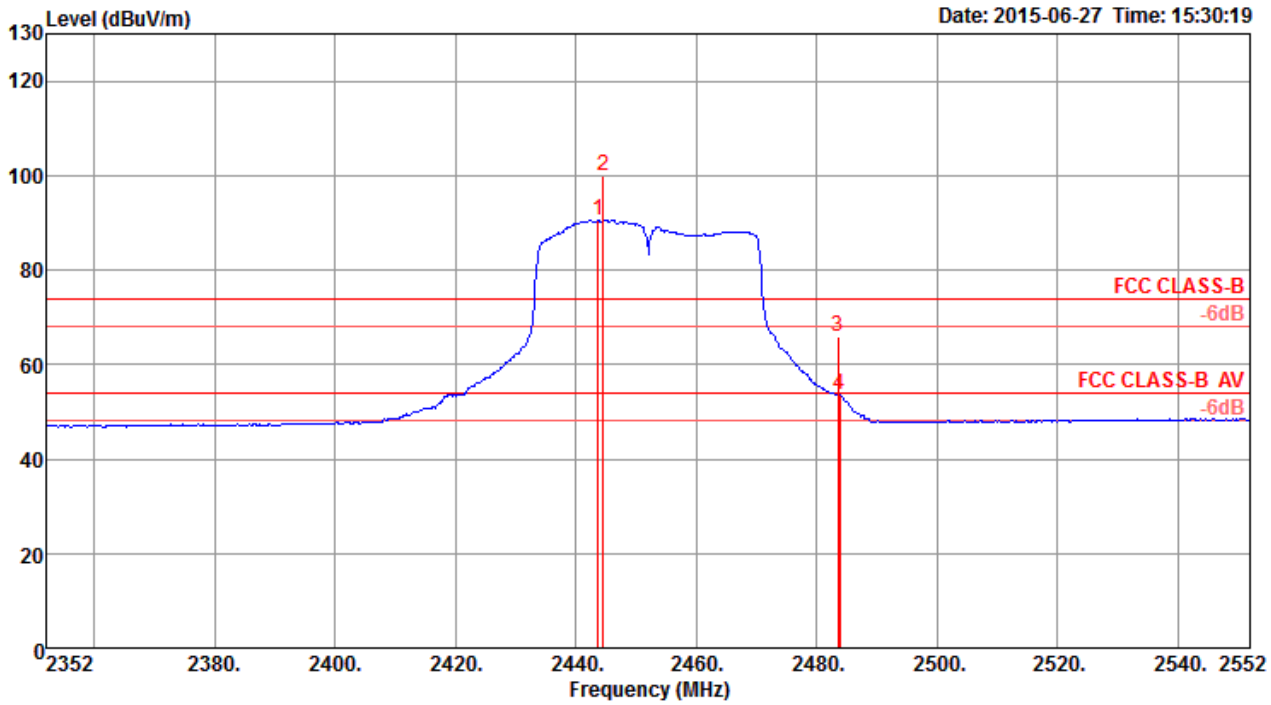
Channel 3




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2390.00 | 53.58 | 54.00 | -0.42 | 21.28 | 4.09 | 28.21 | 0.00 | Average | 113 | 22 | HORIZONTAL |
| 2 | 2390.00 | 63.37 | 74.00 | -10.63 | 31.07 | 4.09 | 28.21 | 0.00 | Peak | 113 | 22 | HORIZONTAL |
| 3 | 2413.99 | 94.63 | | | 62.28 | 4.11 | 28.24 | 0.00 | Average | 113 | 22 | HORIZONTAL |
| 4 | 2416.87 | 103.77 | | | 71.42 | 4.11 | 28.24 | 0.00 | Peak | 113 | 22 | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2422 MHz.

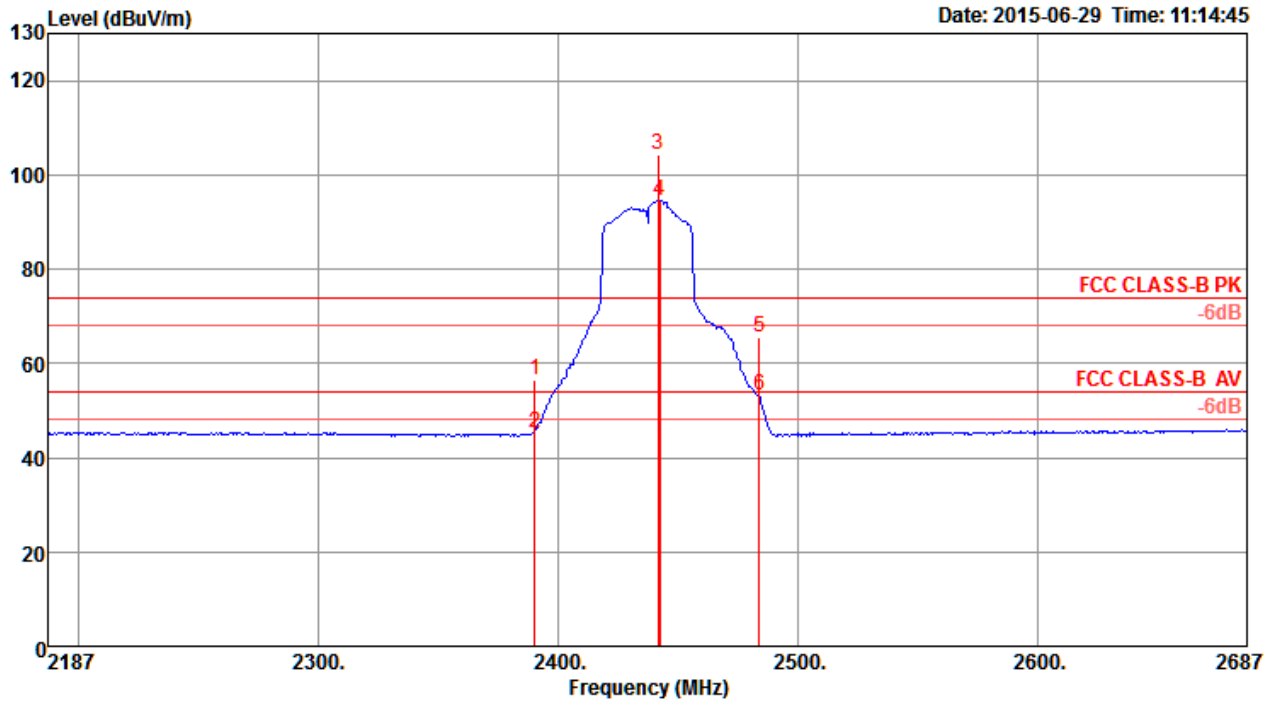
## Channel 6




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | Remark | A/Pos | T/Pos | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | | cm | deg | |
| 1 | 2443.71 | 90.54 | | | 58.10 | 4.13 | 28.31 | 0.00 | Average | 151 | 18 | HORIZONTAL |
| 2 | 2444.57 | 99.96 | | | 67.52 | 4.13 | 28.31 | 0.00 | Peak | 151 | 18 | HORIZONTAL |
| 3 | 2483.50 | 65.89 | 74.00 | -8.11 | 33.36 | 4.16 | 28.37 | 0.00 | Peak | 151 | 18 | HORIZONTAL |
| 4 | 2483.82 | 53.52 | 54.00 | -0.48 | 20.99 | 4.16 | 28.37 | 0.00 | Average | 151 | 18 | HORIZONTAL |

Item 1, 2 are the fundamental frequency at 2437 MHz.

Channel 9




| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 2390.00 | 56.64 | 74.00 | -17.36 | 25.64 | 2.86 | 28.14 | 0.00 | 208 | 117 | Peak | HORIZONTAL |
| 2 | 2390.00 | 45.44 | 54.00 | -8.56 | 14.44 | 2.86 | 28.14 | 0.00 | 208 | 117 | Average | HORIZONTAL |
| 3 | 2441.34 | 104.15 | | | 73.19 | 2.89 | 28.07 | 0.00 | 208 | 117 | Peak | HORIZONTAL |
| 4 | 2442.07 | 94.64 | | | 63.68 | 2.89 | 28.07 | 0.00 | 208 | 117 | Average | HORIZONTAL |
| 5 | 2483.50 | 65.63 | 74.00 | -8.37 | 34.70 | 2.91 | 28.02 | 0.00 | 208 | 117 | Peak | HORIZONTAL |
| 6 | 2483.50 | 53.14 | 54.00 | -0.86 | 22.21 | 2.91 | 28.02 | 0.00 | 208 | 117 | Average | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 2452 MHz.

Note:

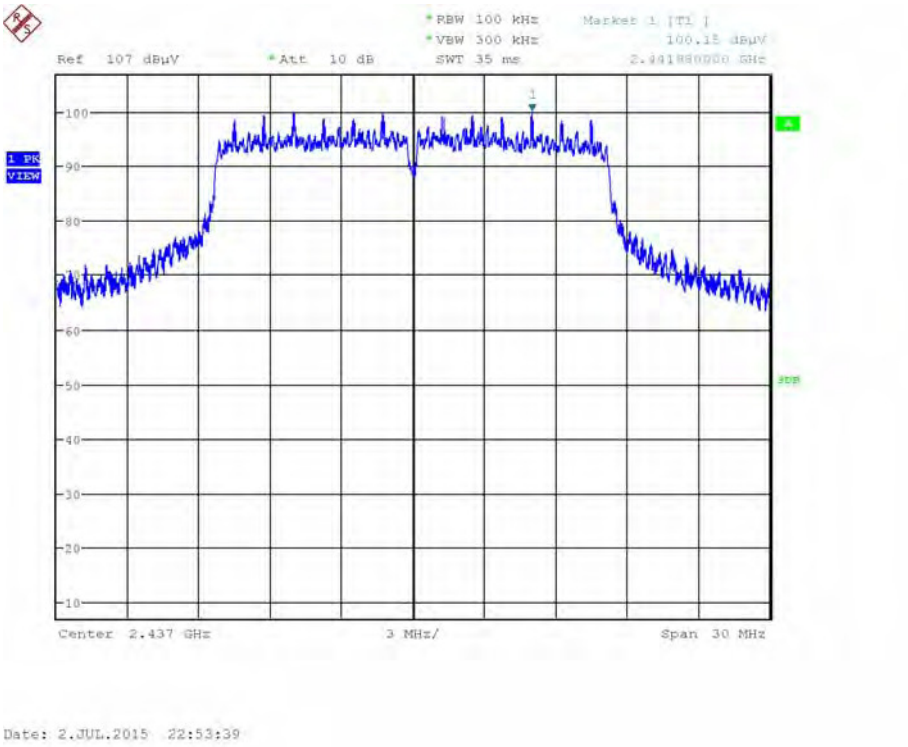
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

**For Emission not in Restricted Band**

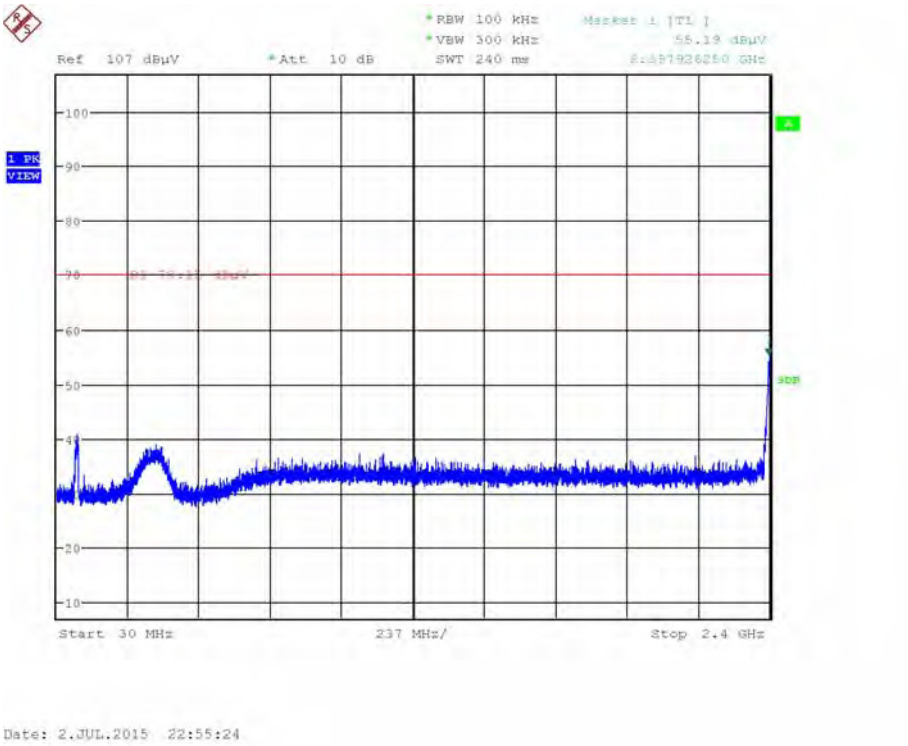
**<For Radio 1 Non-beamforming Mode>: 1TX, 1S**

**Plot on Configuration IEEE 802.11g / Reference Level**



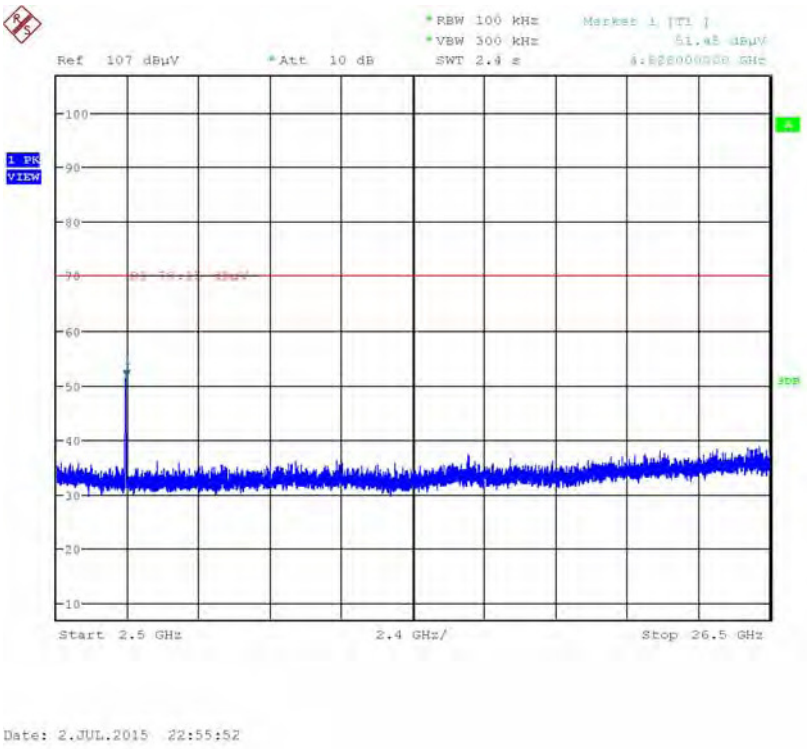

Date: 2.JUL.2015 22:53:39

**Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)**



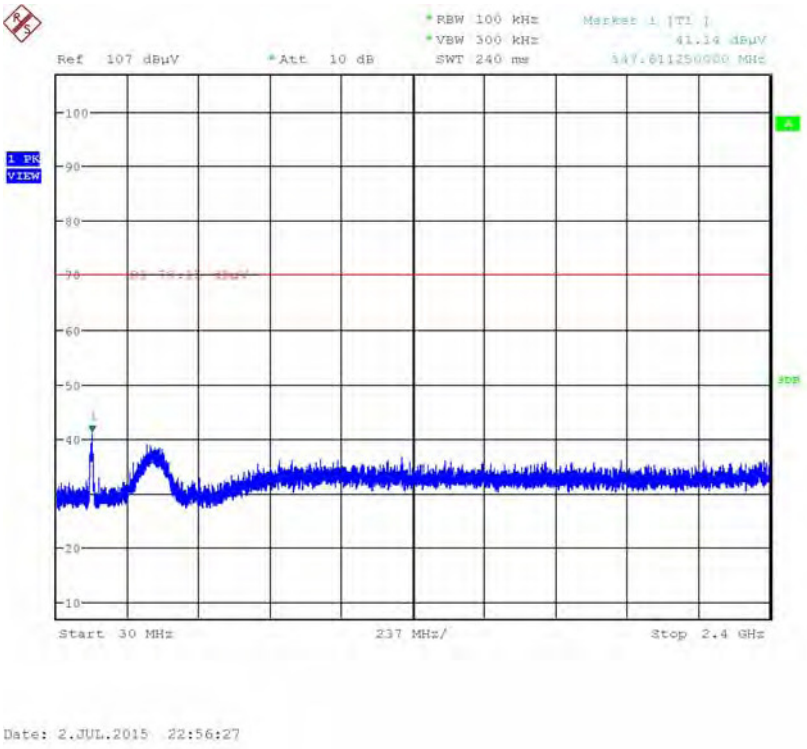

Date: 2.JUL.2015 22:55:24

## Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



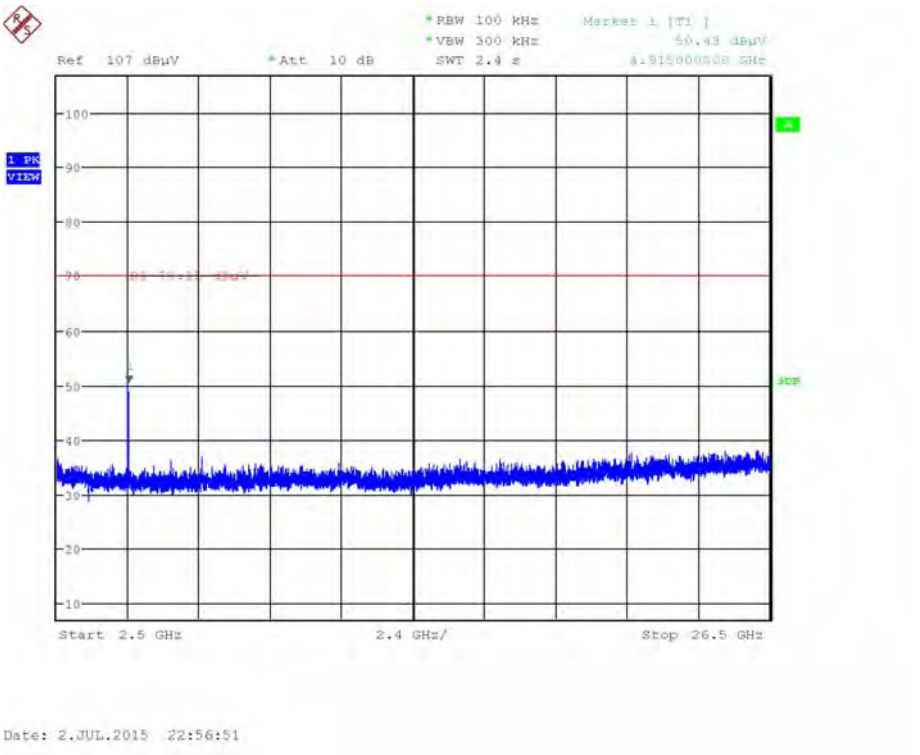

Date: 2.JUL.2015 22:55:52

## Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)

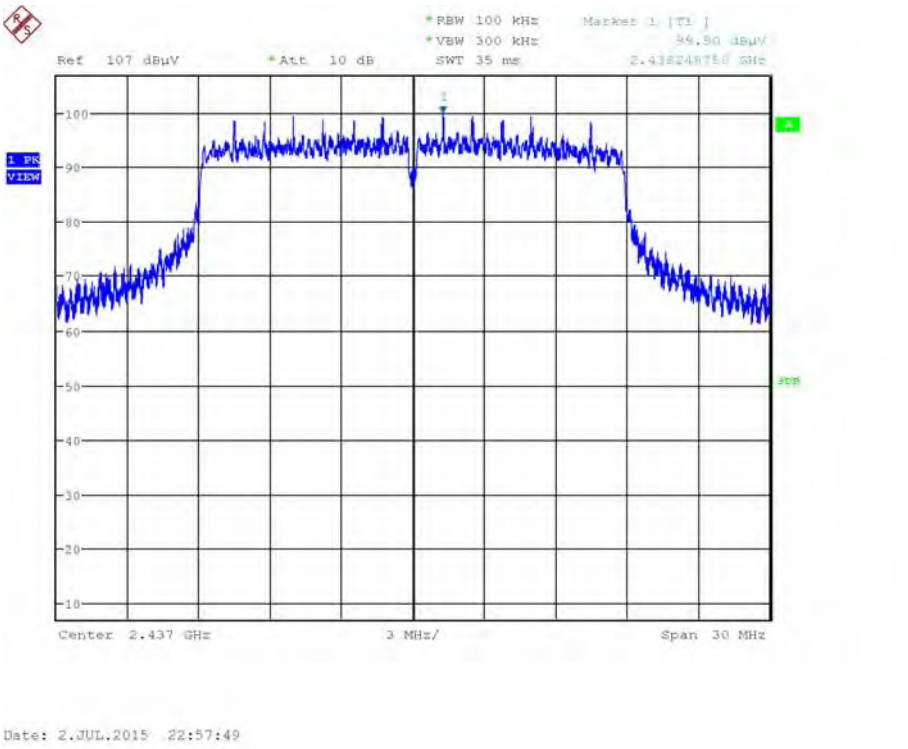



Date: 2.JUL.2015 22:56:27

## Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)

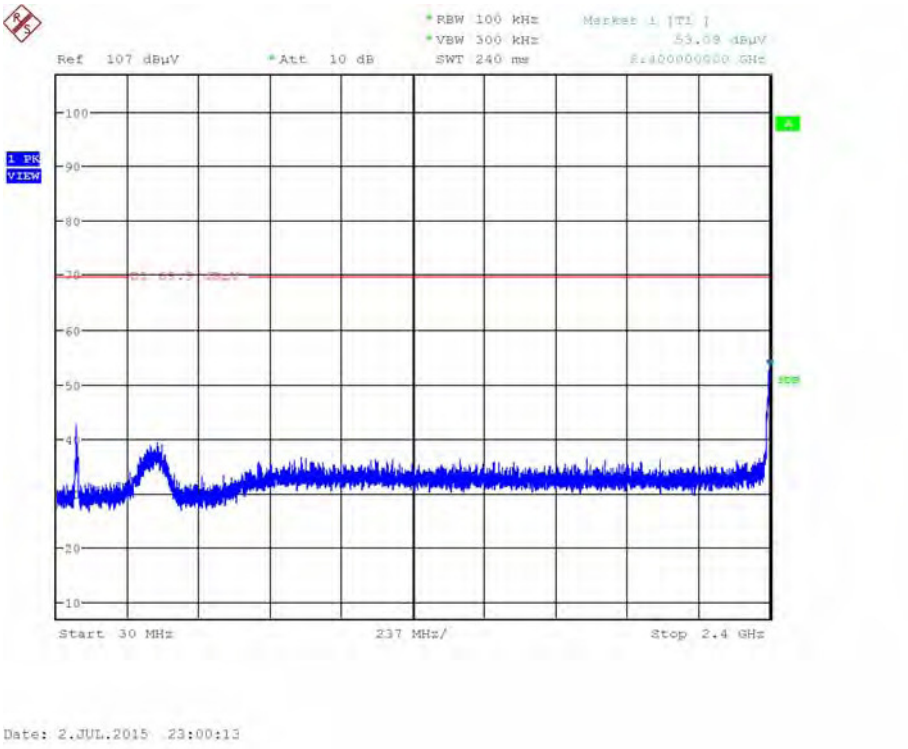


## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20/ Reference Level



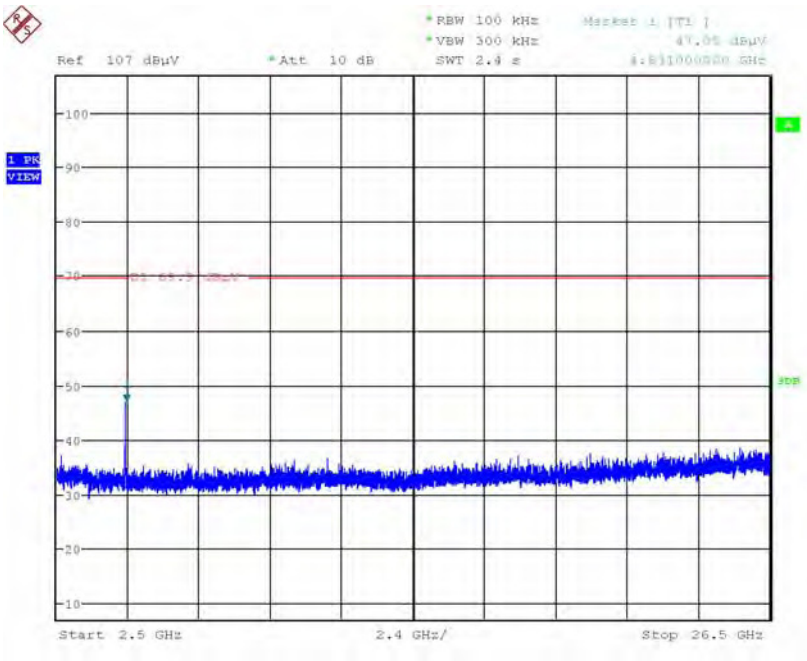

Date: 2.JUL.2015 22:57:49

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



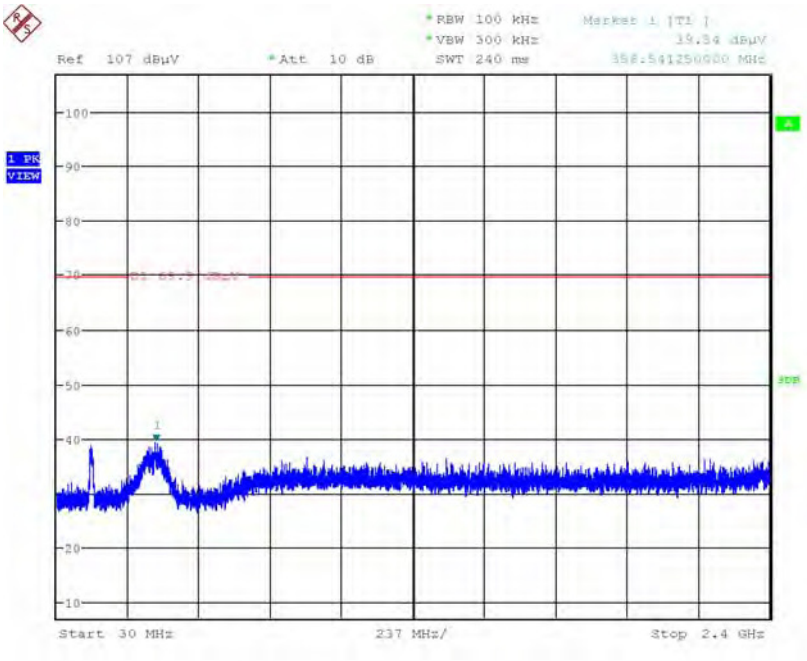

Date: 2.JUL.2015 23:00:13

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



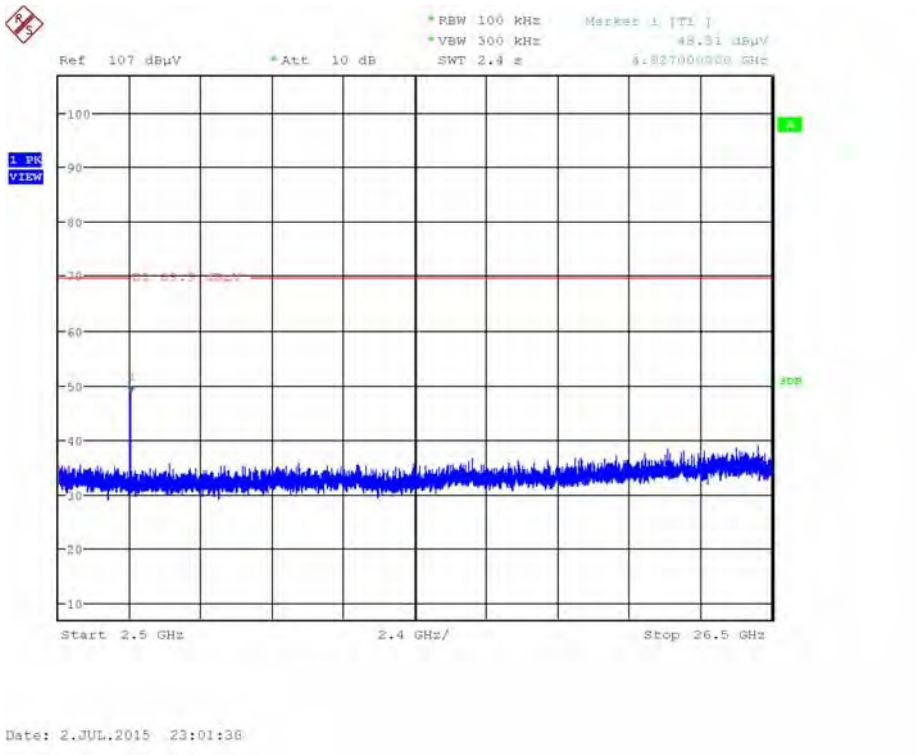

Date: 2.JUL.2015 23:00:39

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)

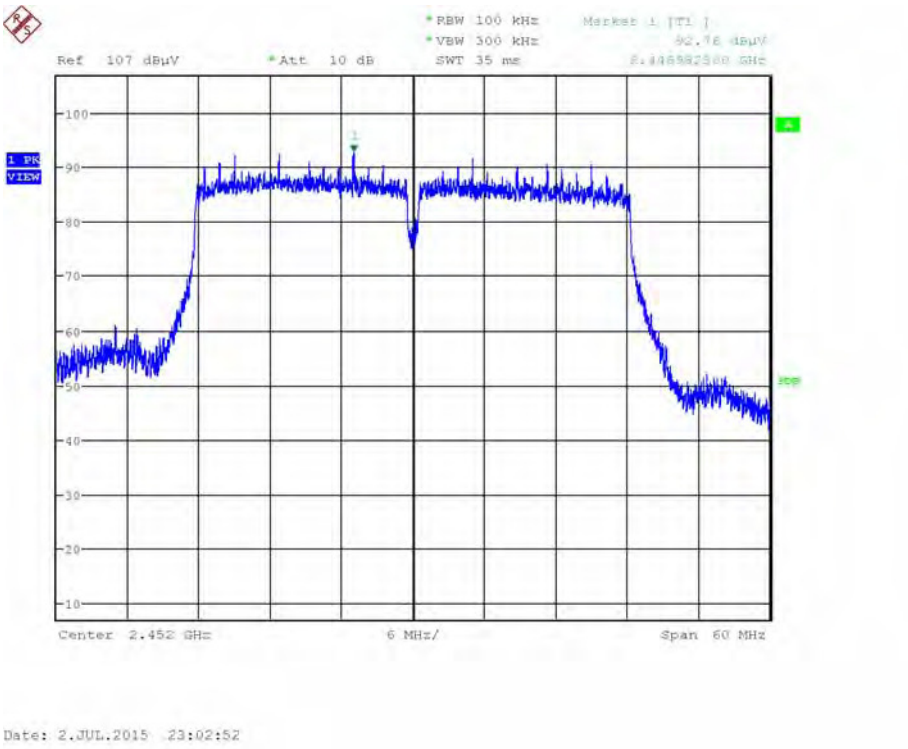



Date: 2.JUL.2015 23:01:13

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

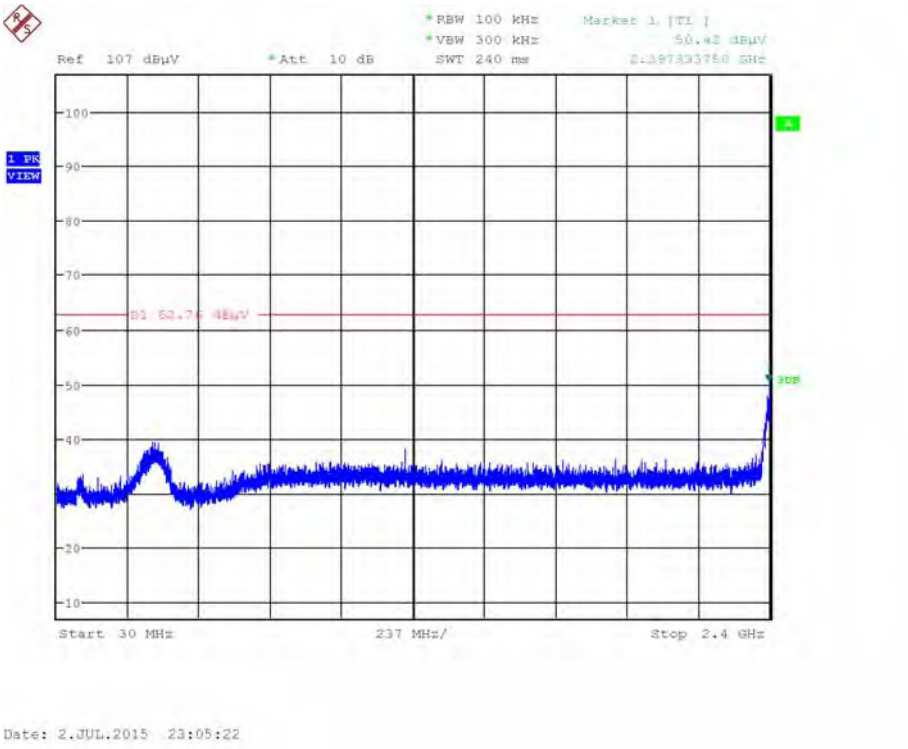


### Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



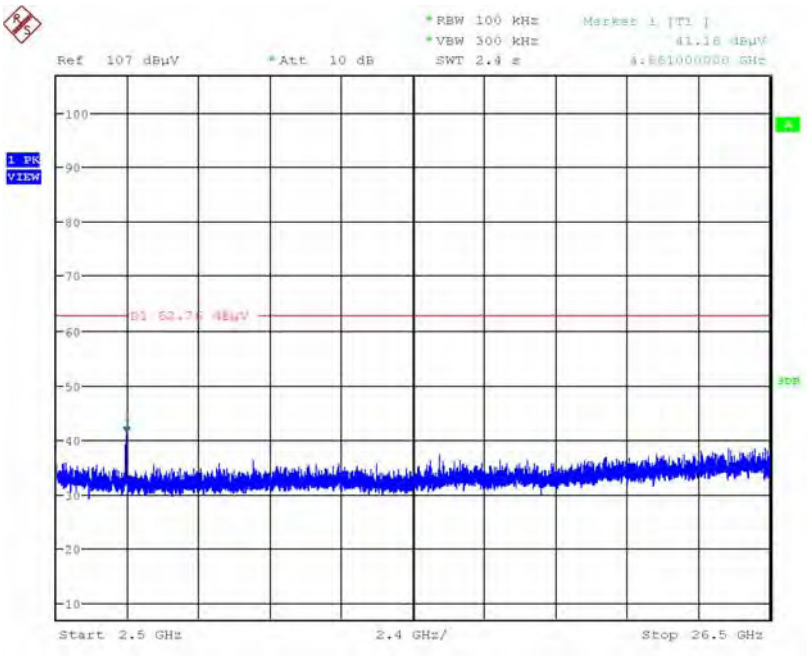

Date: 2.JUL.2015 23:02:52

### Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



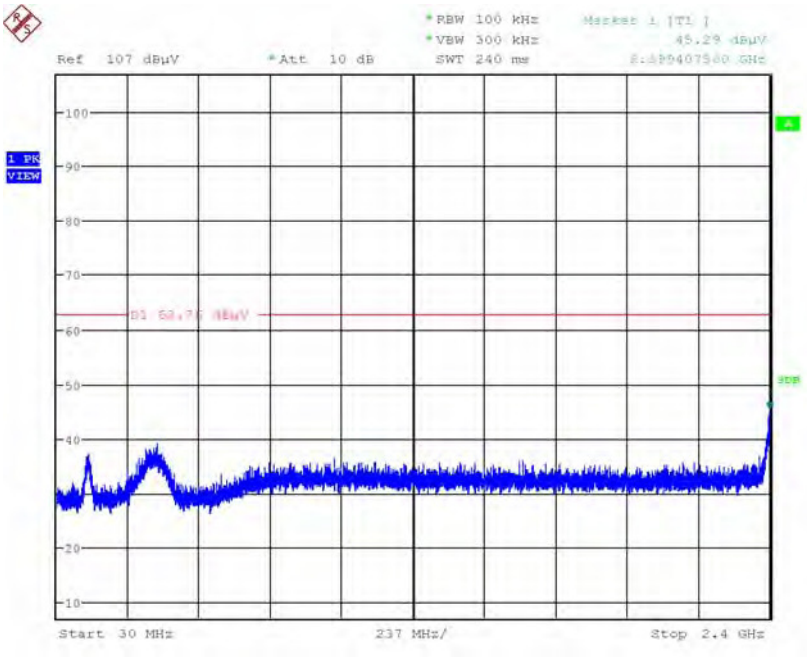

Date: 2.JUL.2015 23:05:22

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**



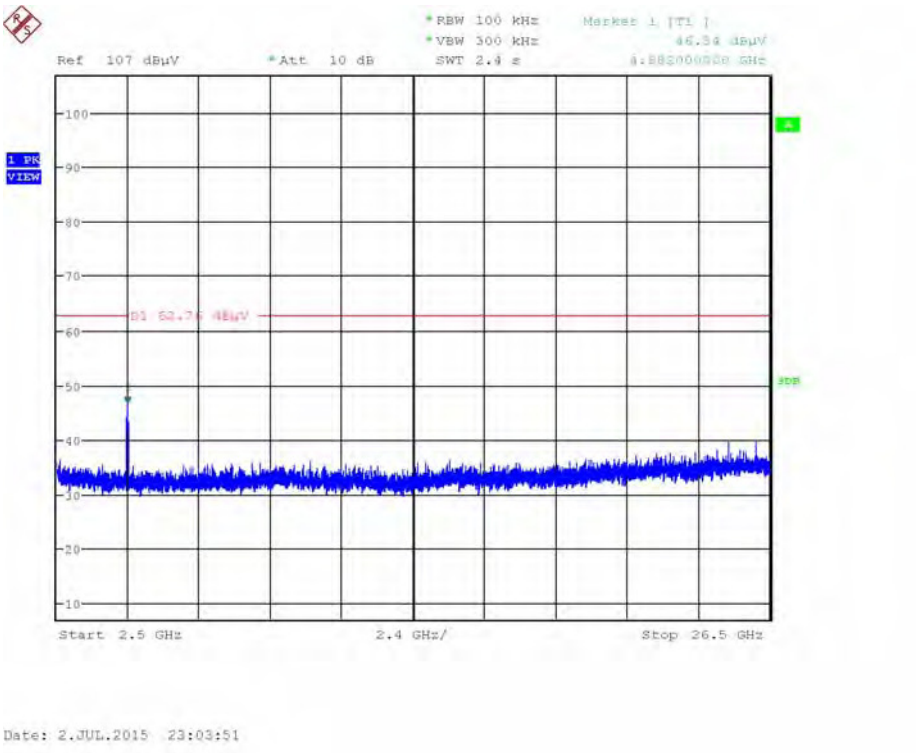

Date: 2.JUL.2015 23:05:44

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**



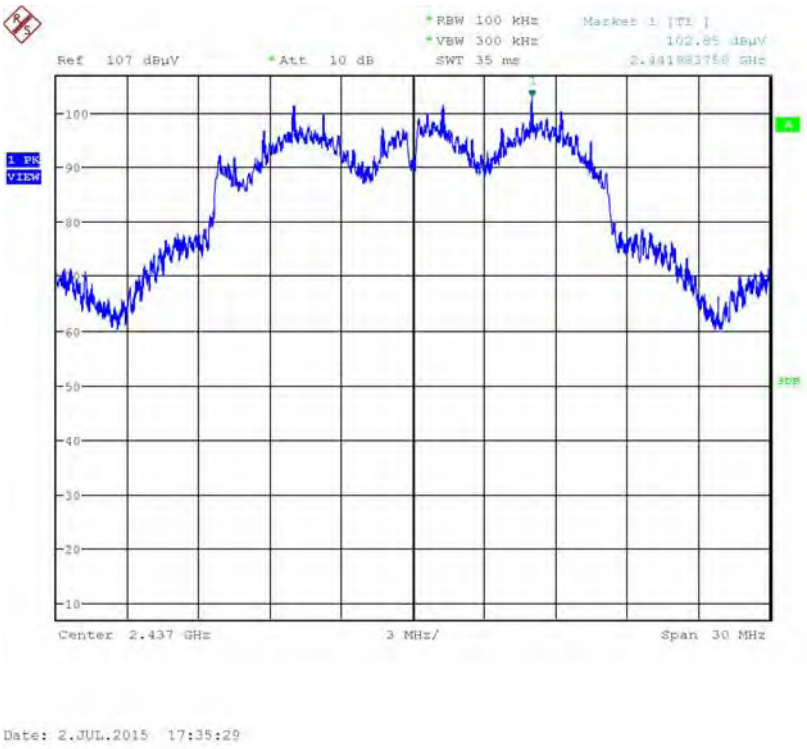

Date: 2.JUL.2015 23:03:25

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



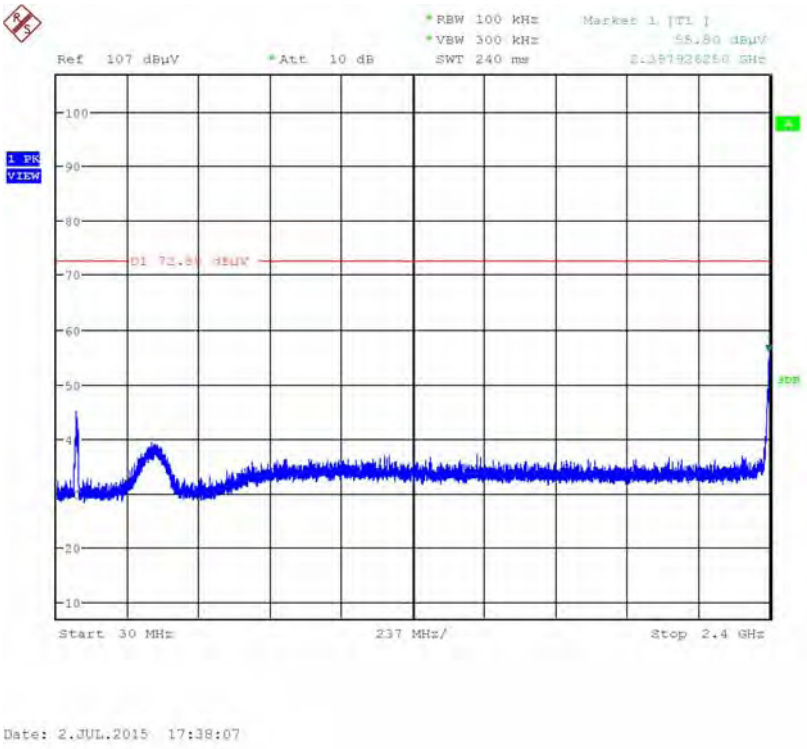
<For Radio 1 Non-beamforming Mode>: 2TX, 1S

Plot on Configuration IEEE 802.11g / Reference Level



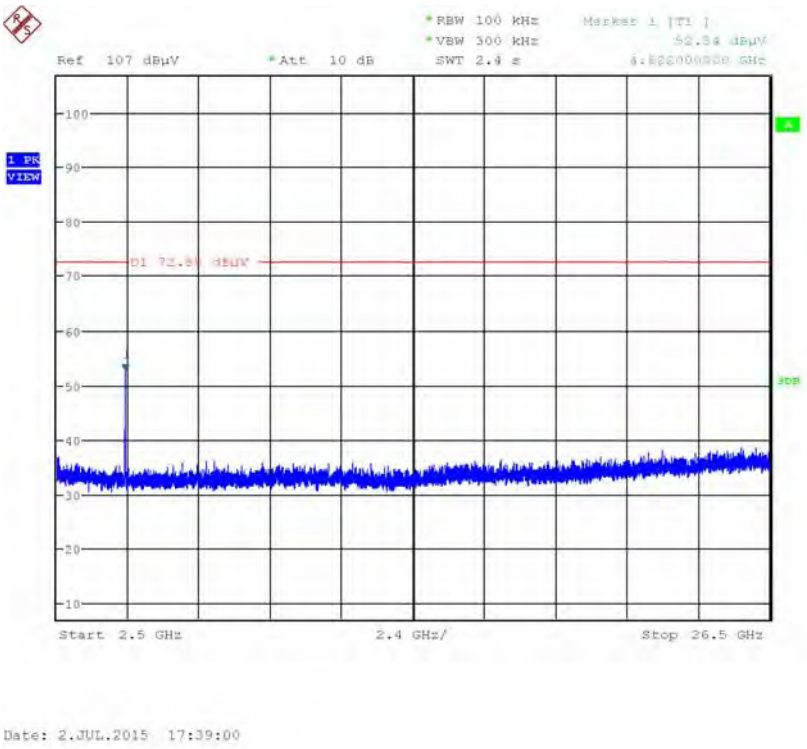

Date: 2.JUL.2015 17:35:29

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



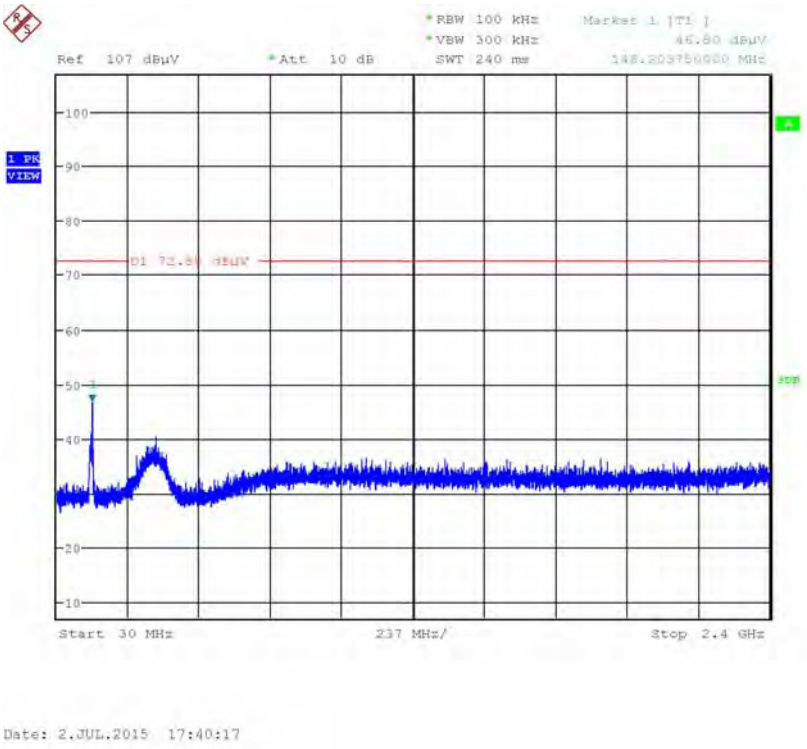

Date: 2.JUL.2015 17:38:07

## Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



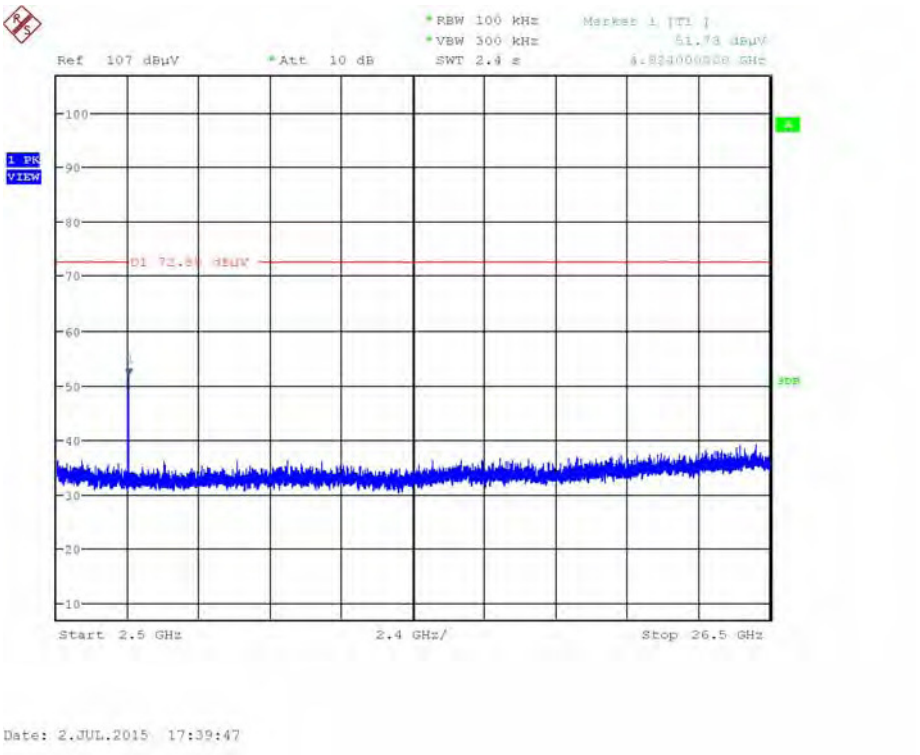

Date: 2.JUL.2015 17:39:00

## Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)

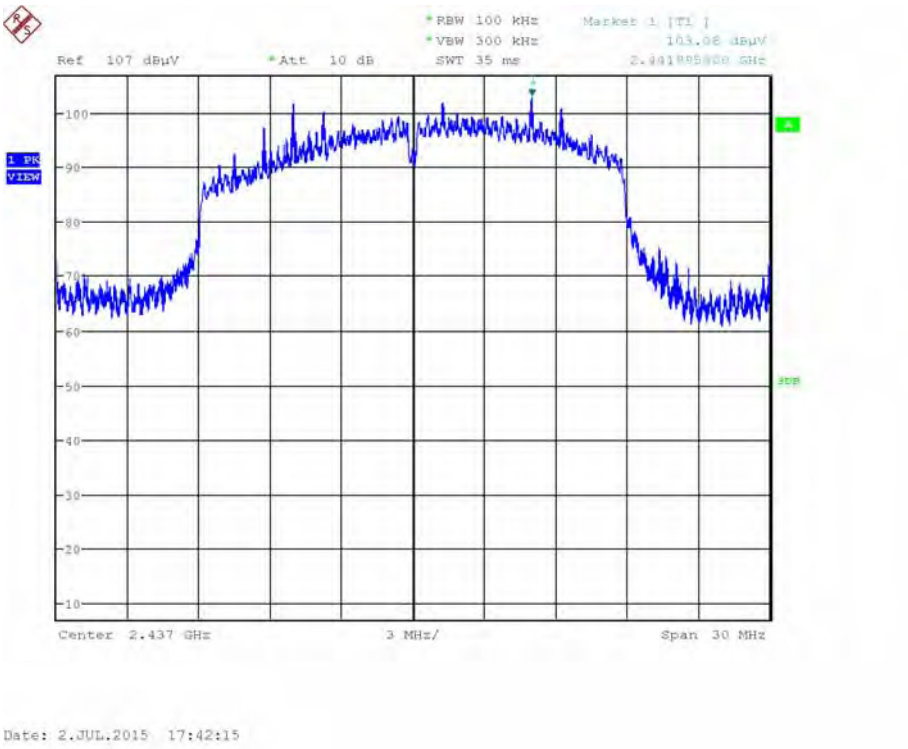



Date: 2.JUL.2015 17:40:17

## Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)

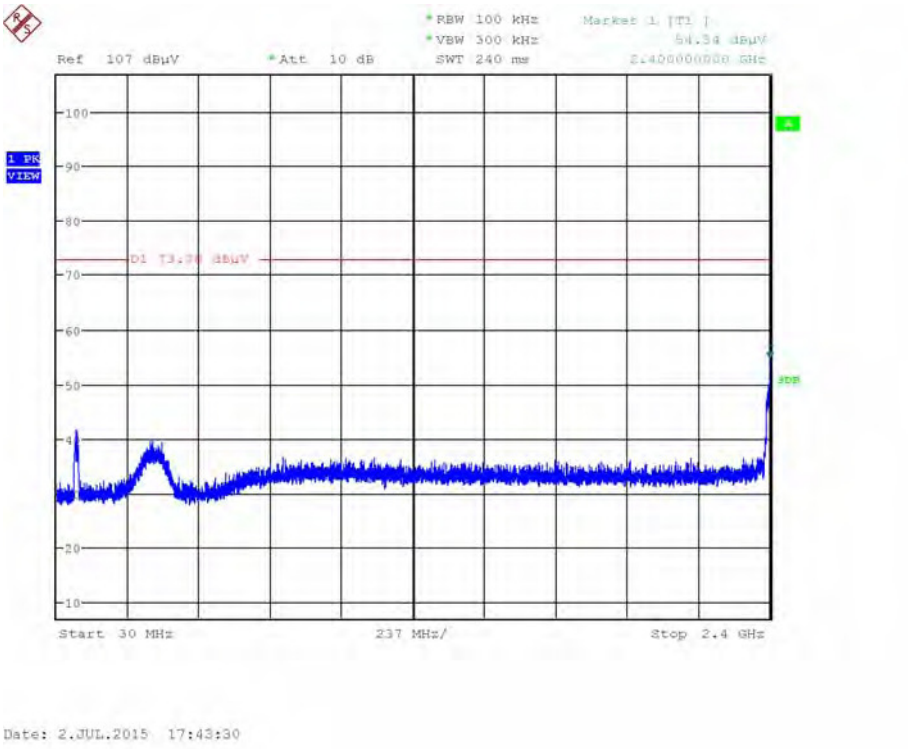


## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20/ Reference Level



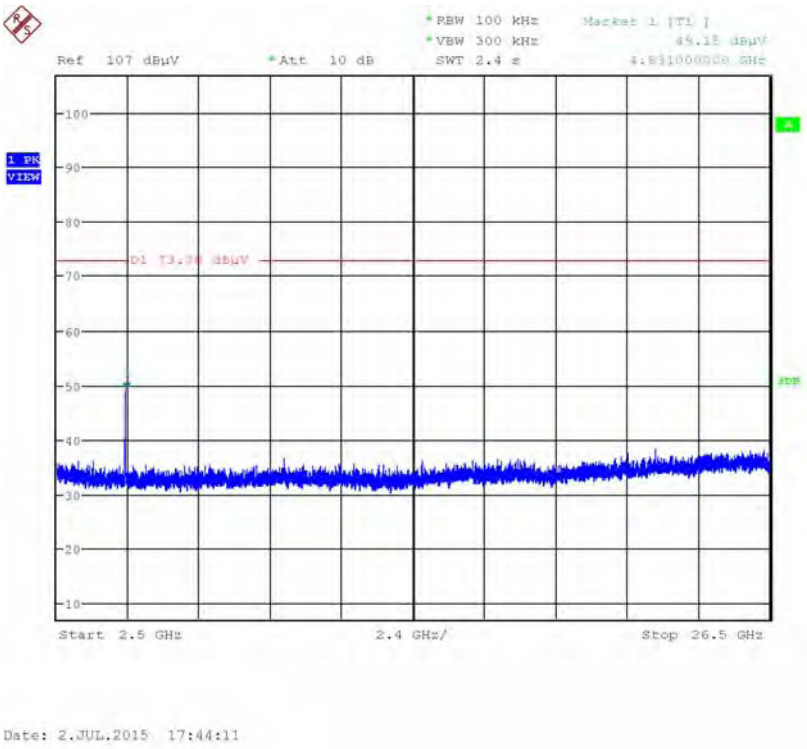

Date: 2.JUL.2015 17:42:15

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)

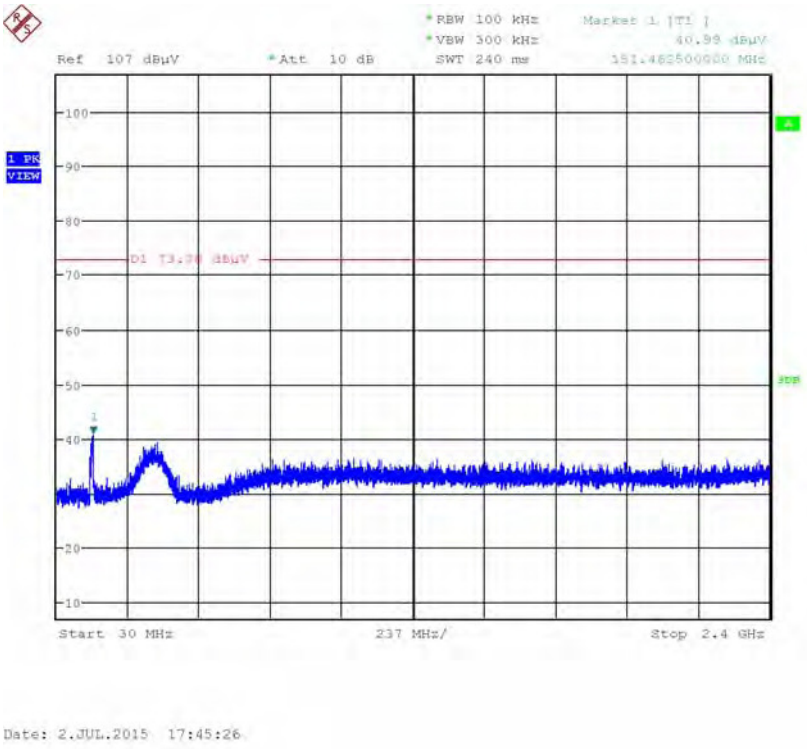



Date: 2.JUL.2015 17:43:30

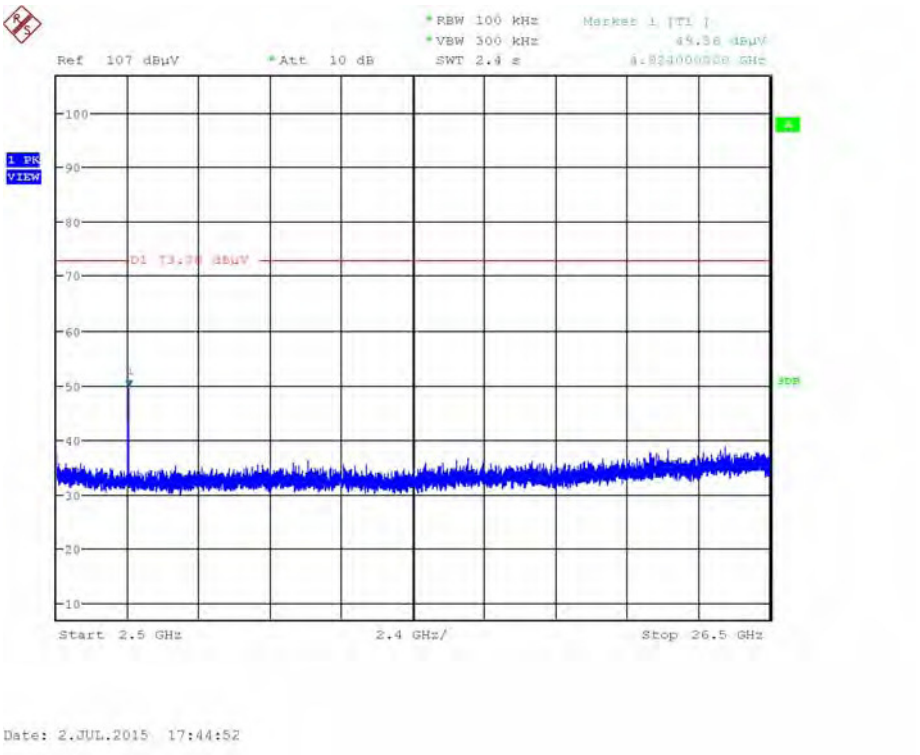
## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



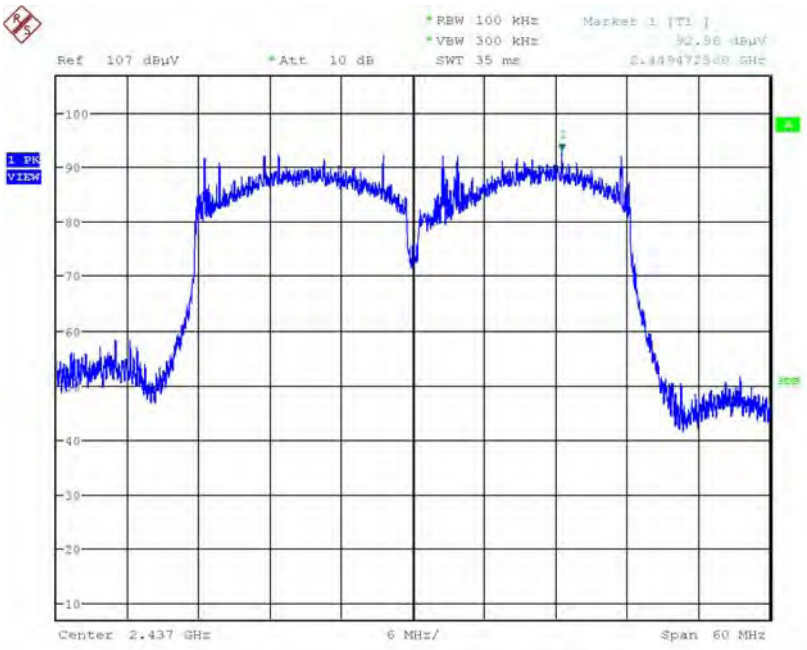

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

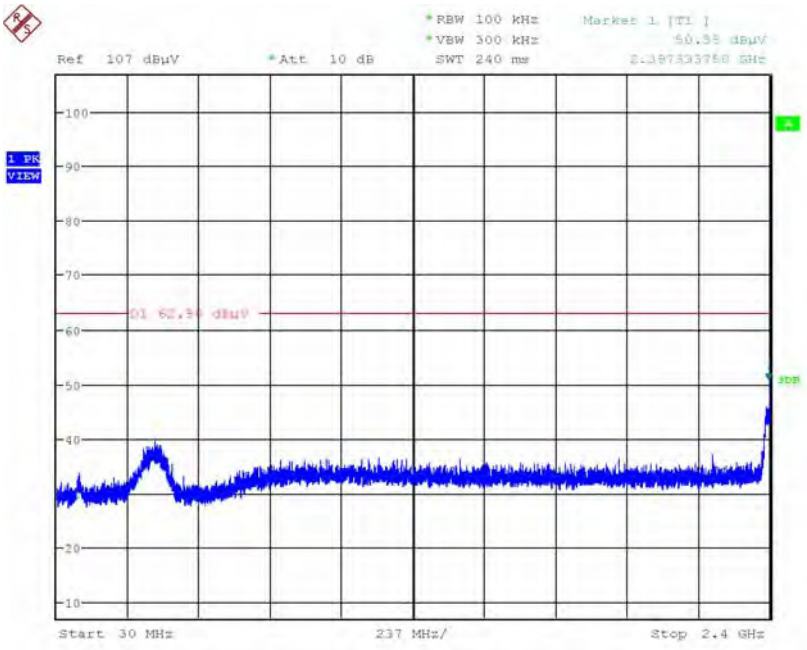


### Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



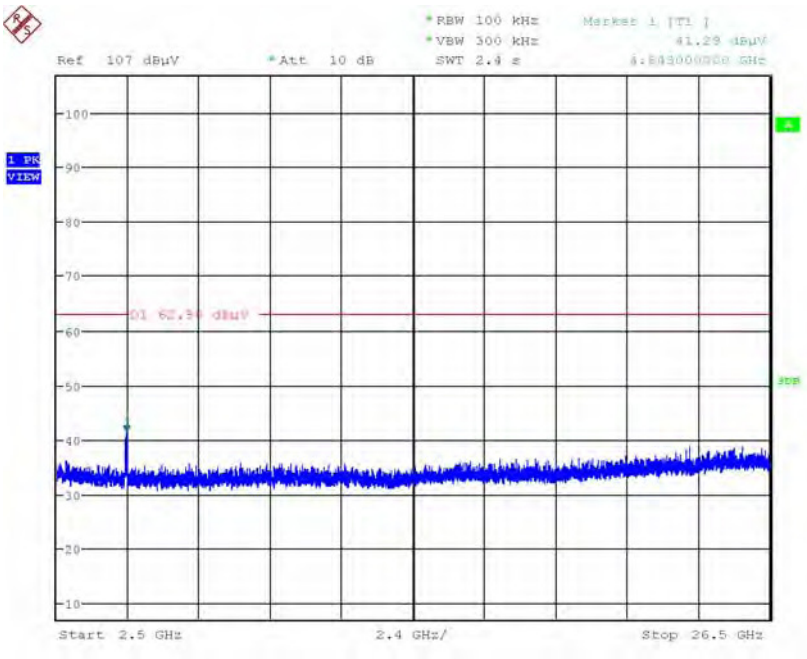

Date: 2.JUL.2015 17:47:25

### Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



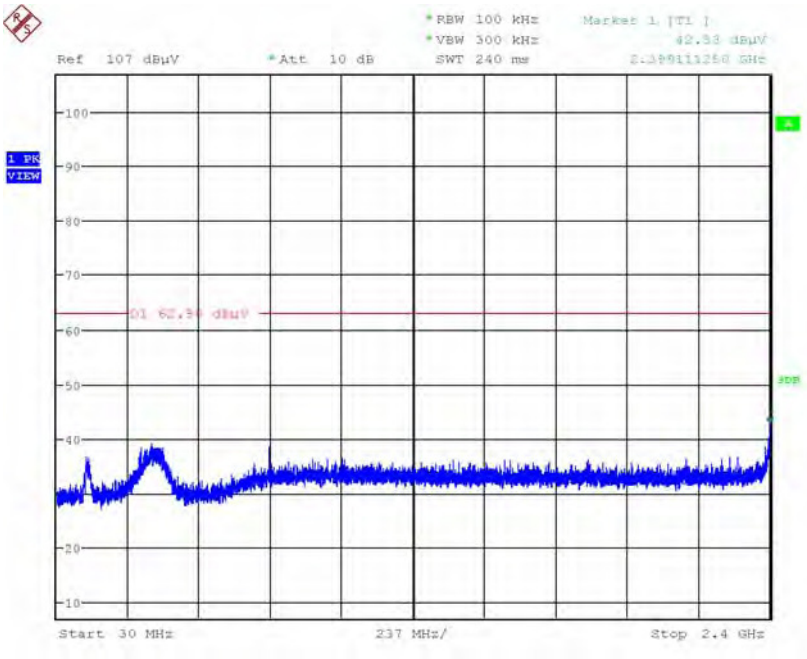

Date: 2.JUL.2015 17:48:34

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**



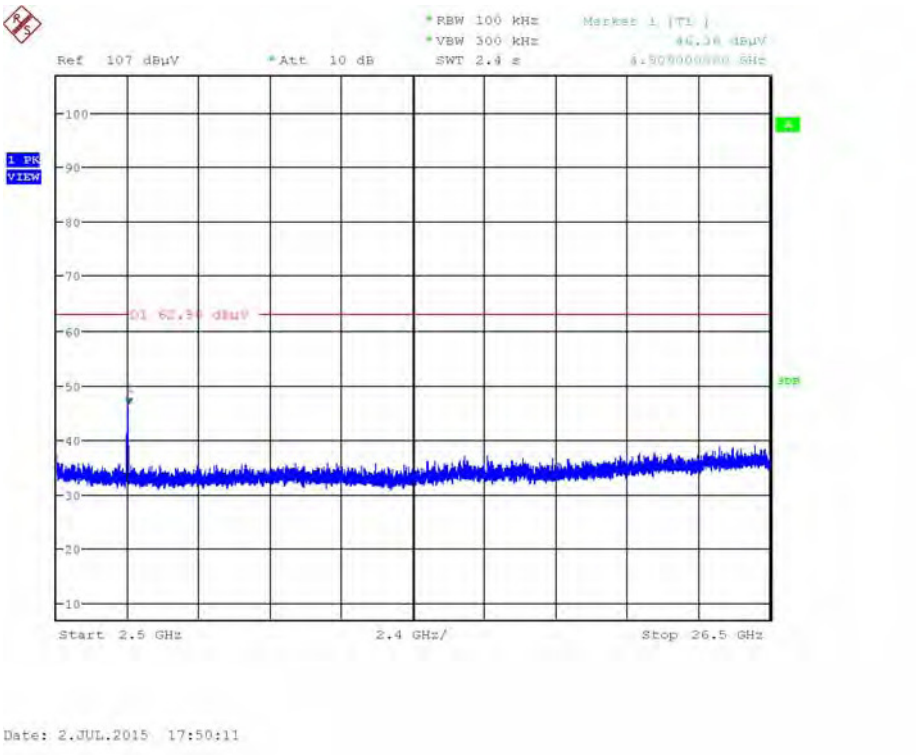

Date: 2.JUL.2015 17:49:22

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**



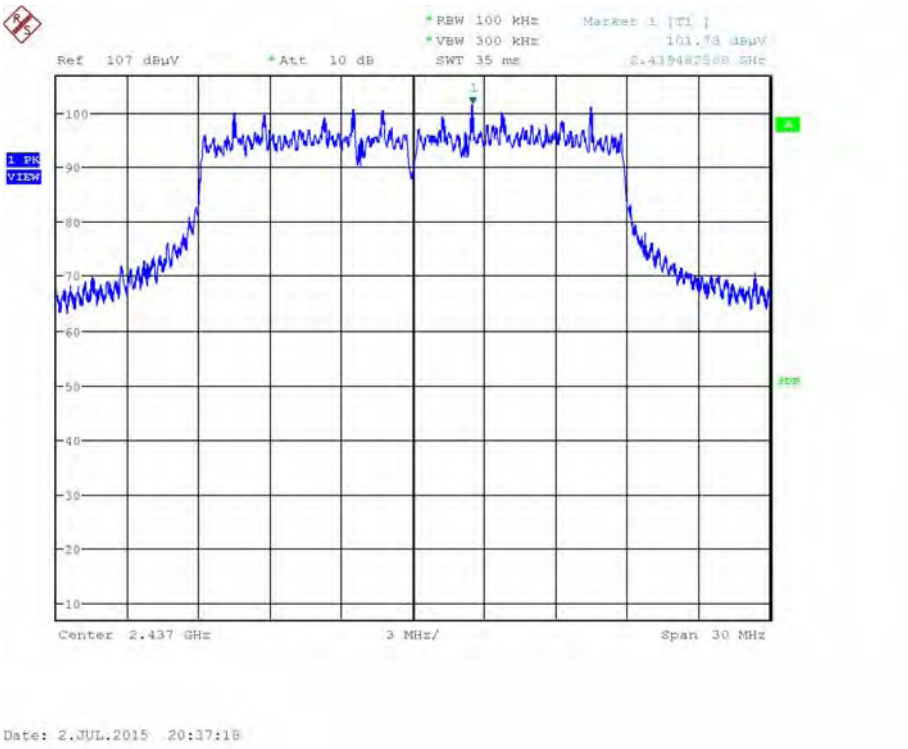

Date: 2.JUL.2015 17:50:42

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)**



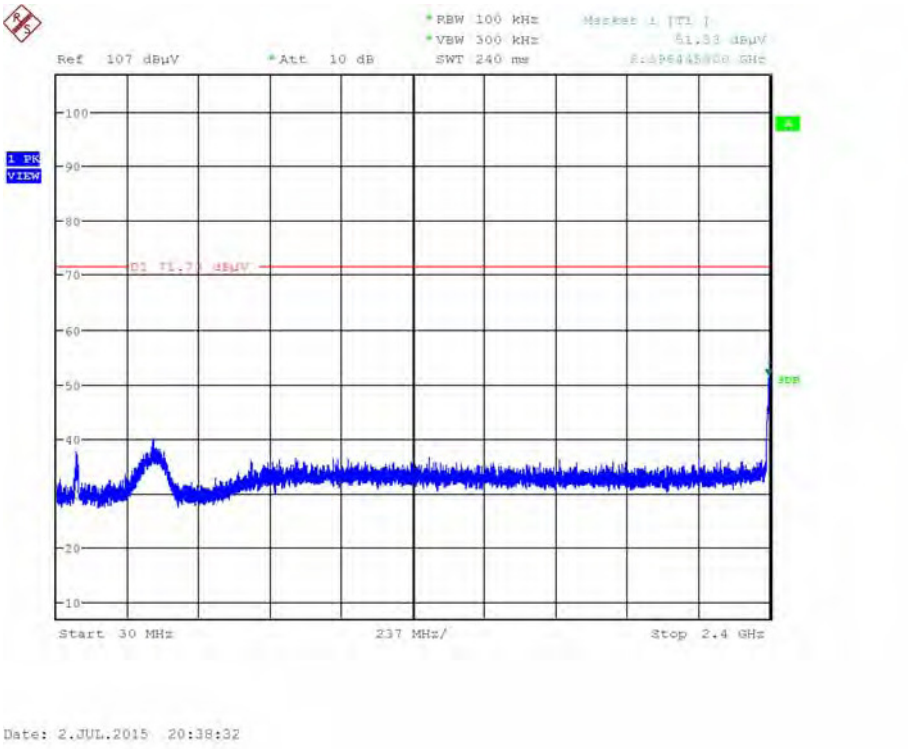
<For Radio 1 Non-beamforming Mode>: 2TX, 2S

Plot on Configuration IEEE 802. MCS0/Nss2 VHT20 / Reference Level



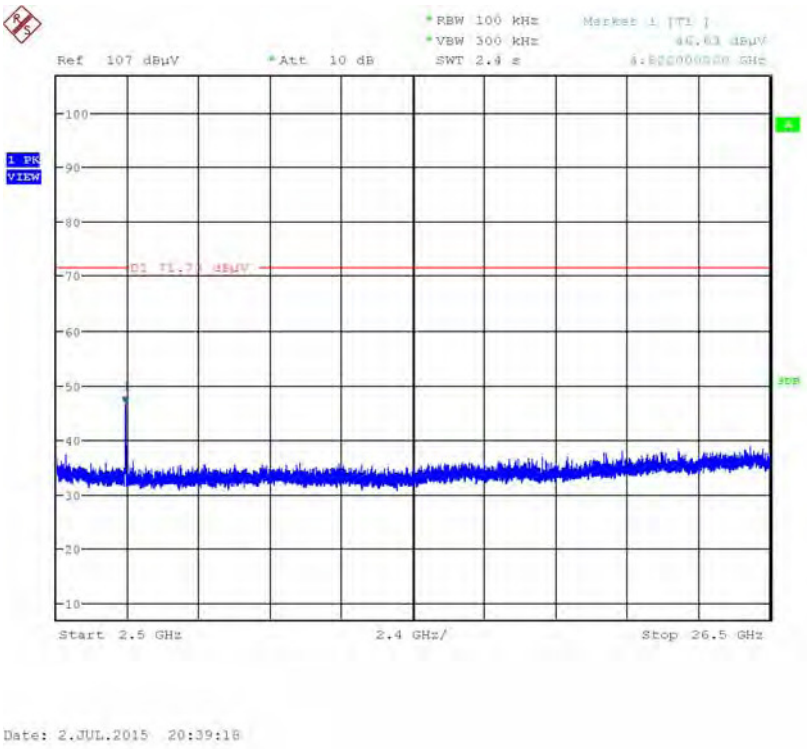

Date: 2.JUL.2015 20:37:18

Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



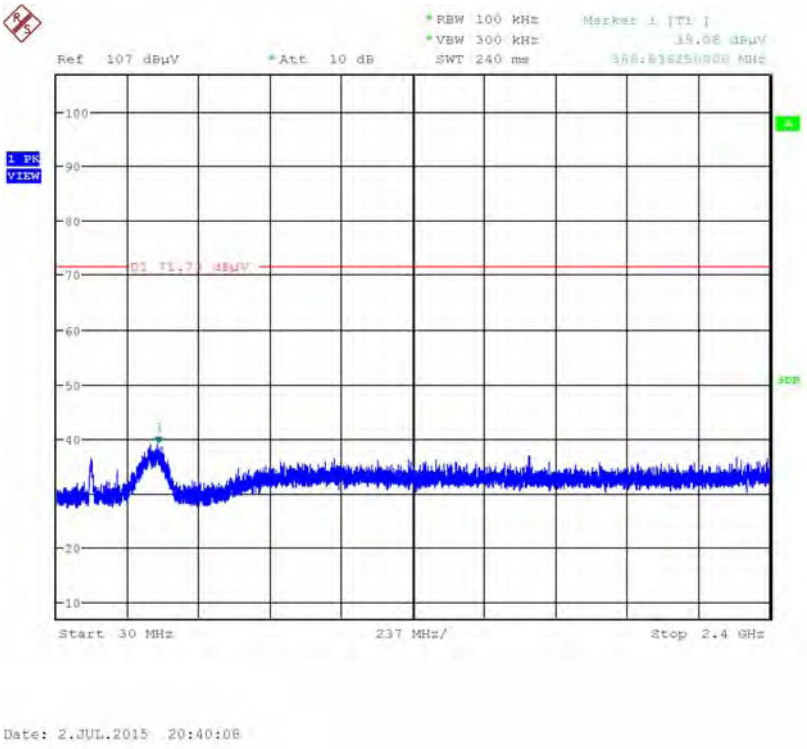

Date: 2.JUL.2015 20:38:32

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)**



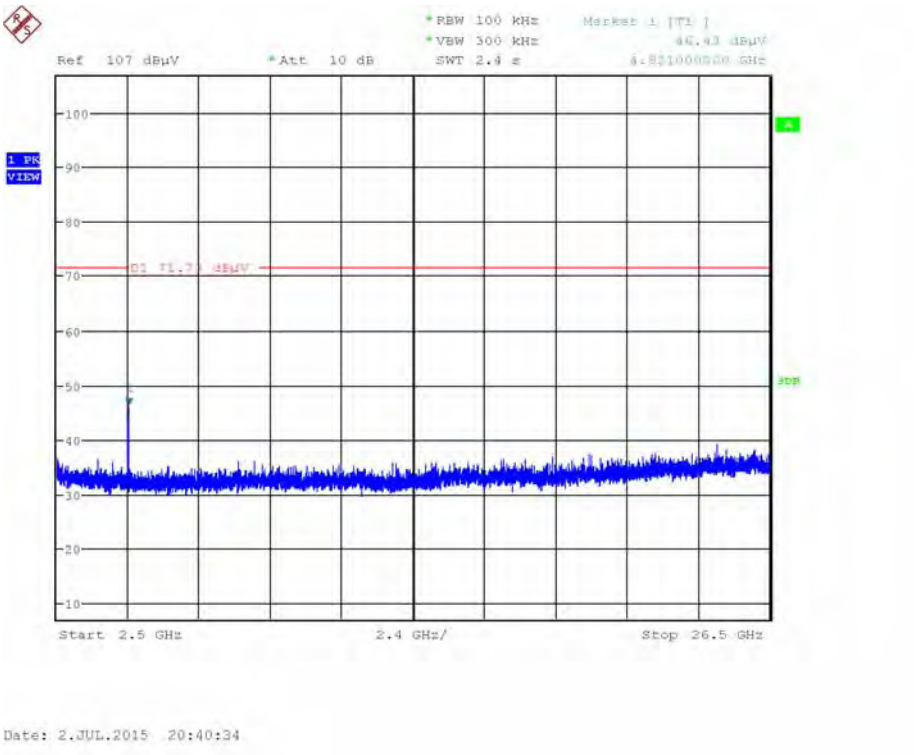

Date: 2.JUL.2015 20:39:18

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)**

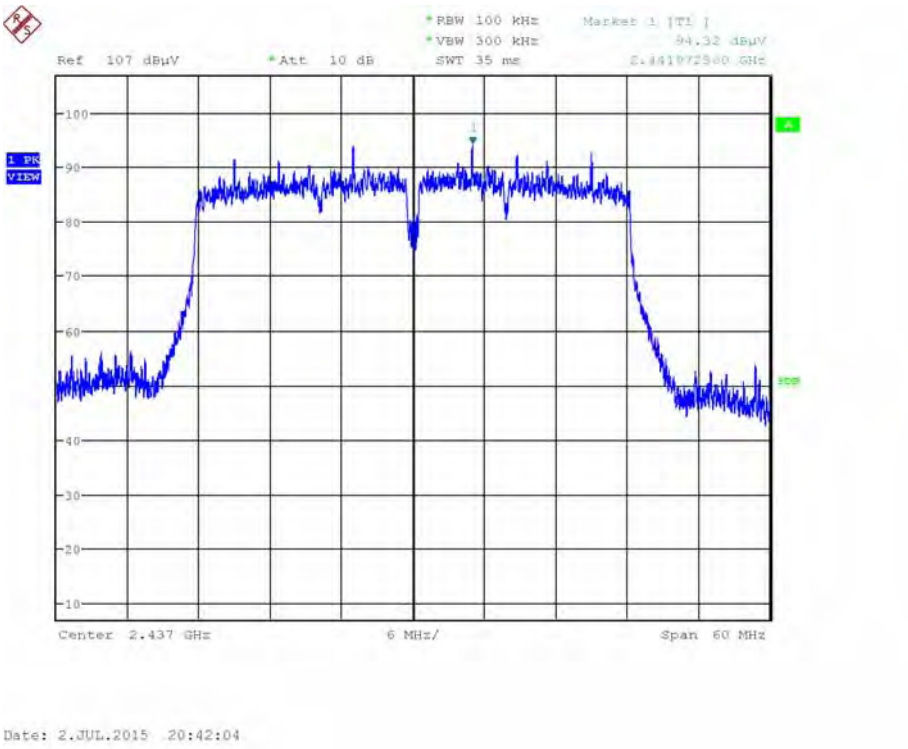



Date: 2.JUL.2015 20:40:08

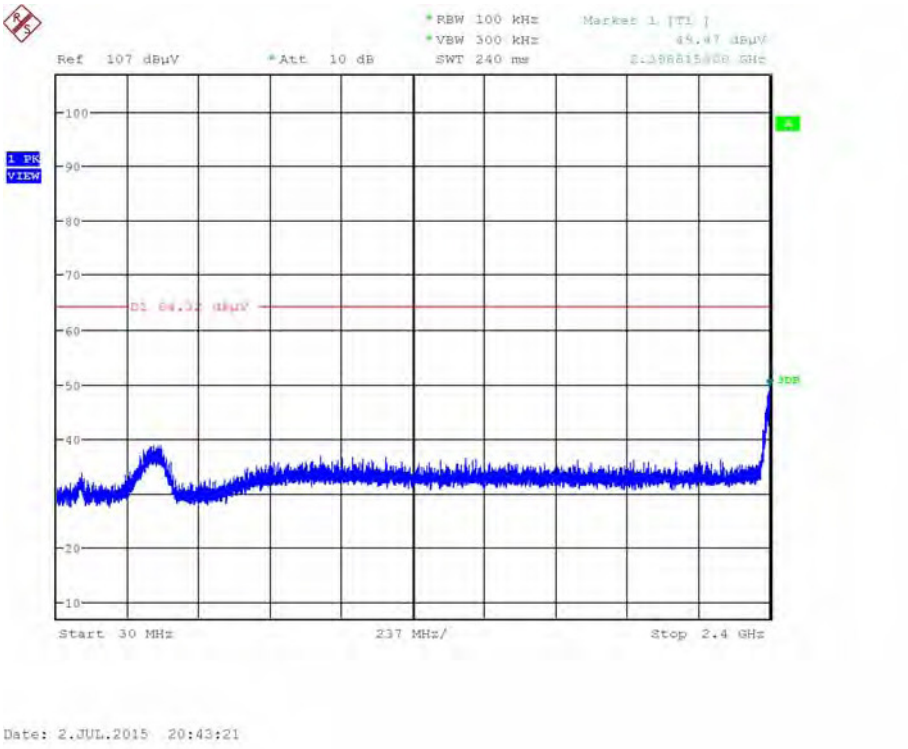
## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



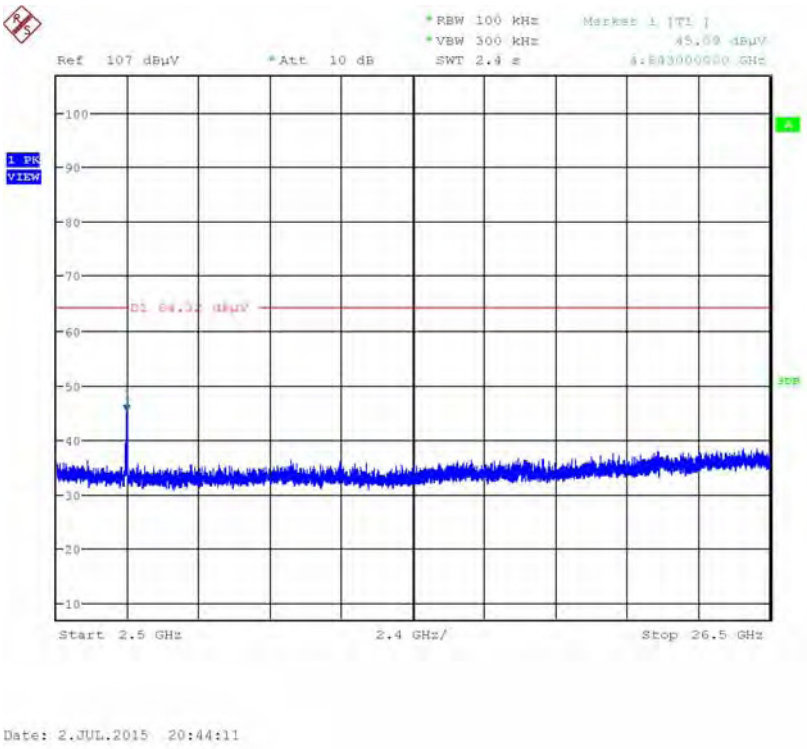
### Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Reference Level




### Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)

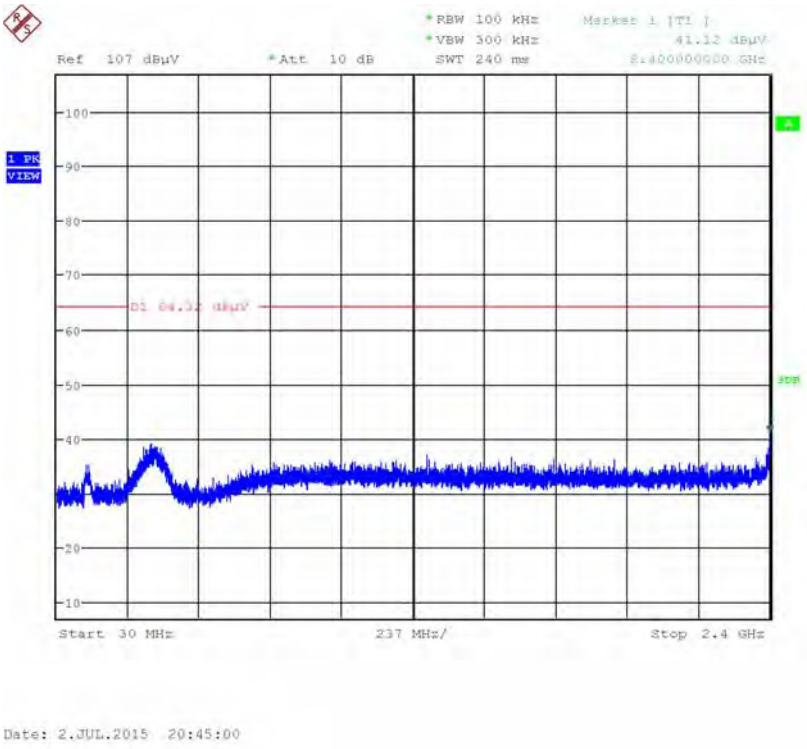


**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**



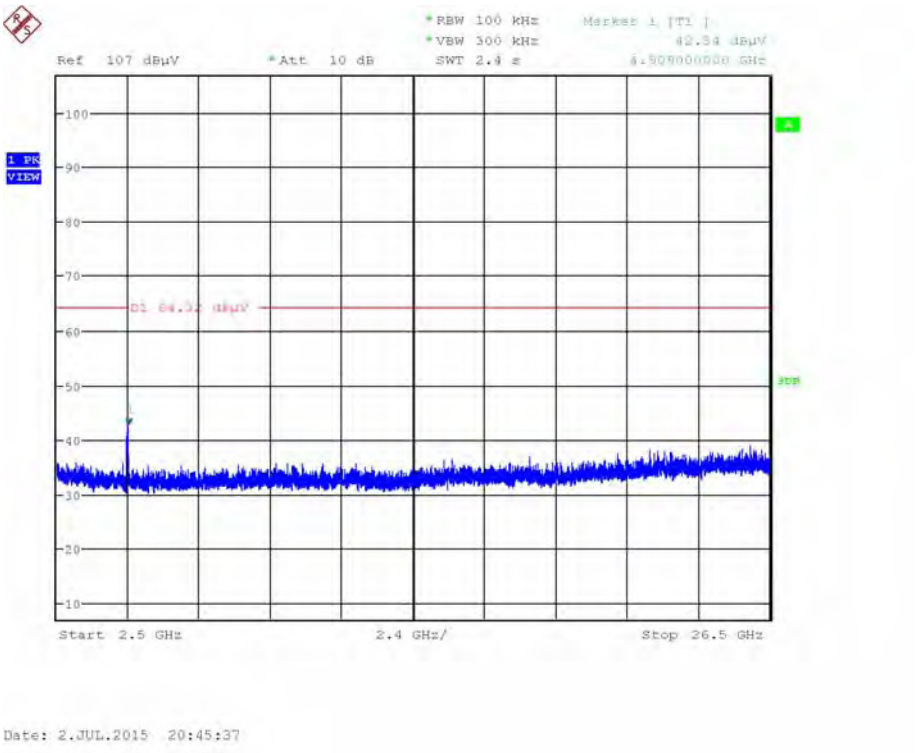

Date: 2.JUL.2015 20:44:11

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**



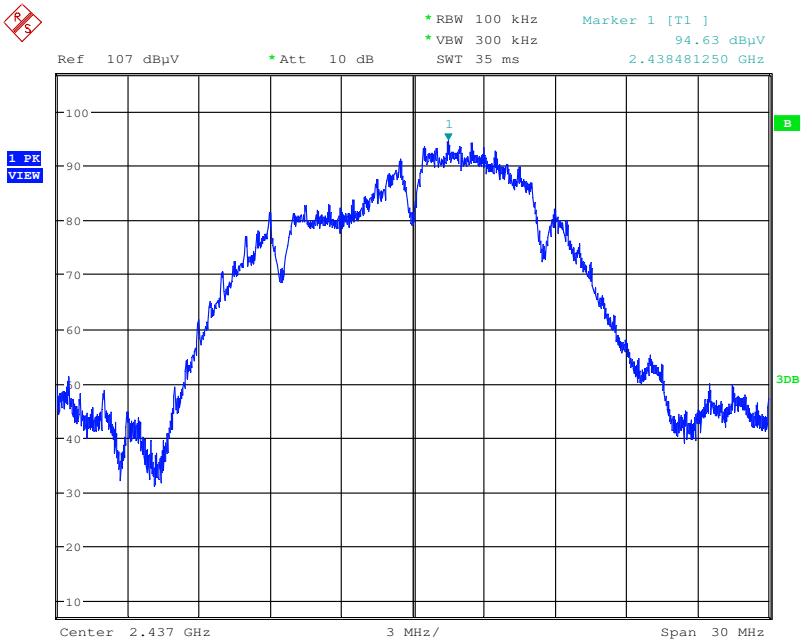

Date: 2.JUL.2015 20:45:00

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



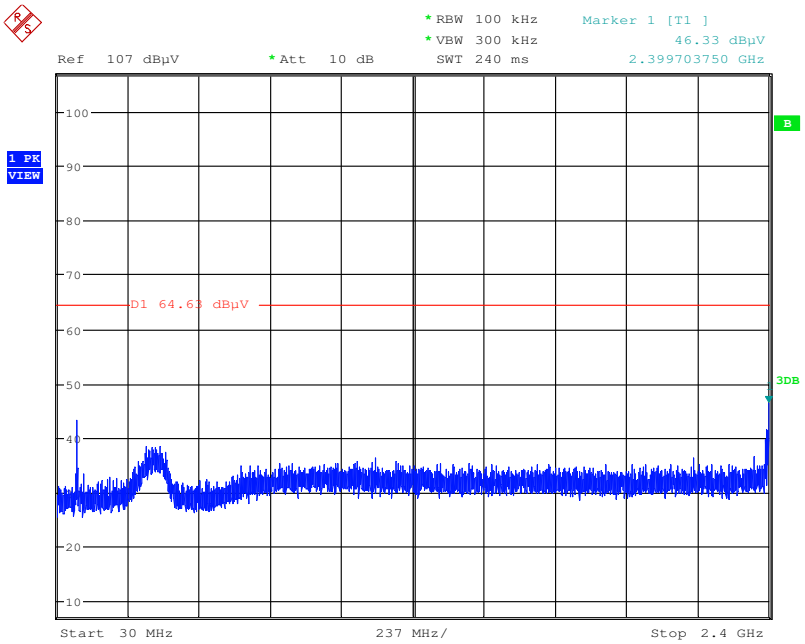
## <For Radio 1 Non-beamforming Mode>: 3TX, 1S

### Plot on Configuration IEEE 802.11b / Reference Level



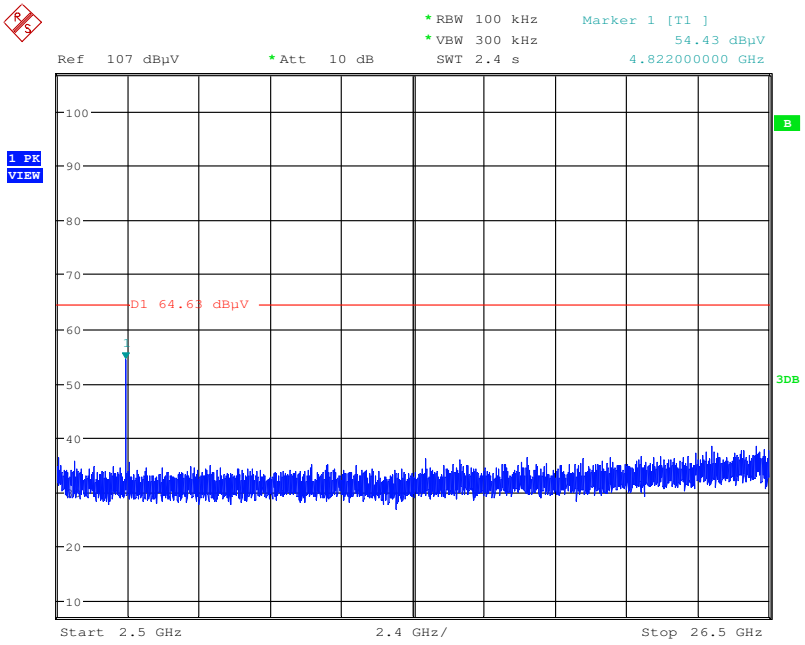

Date: 26.JUN.2015 02:38:14

### Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



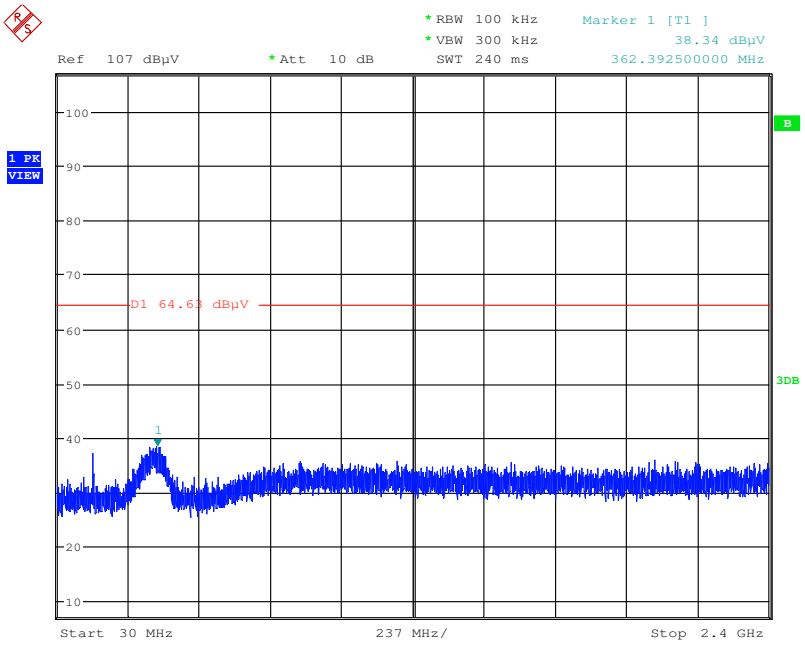

Date: 26.JUN.2015 02:39:57

## Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



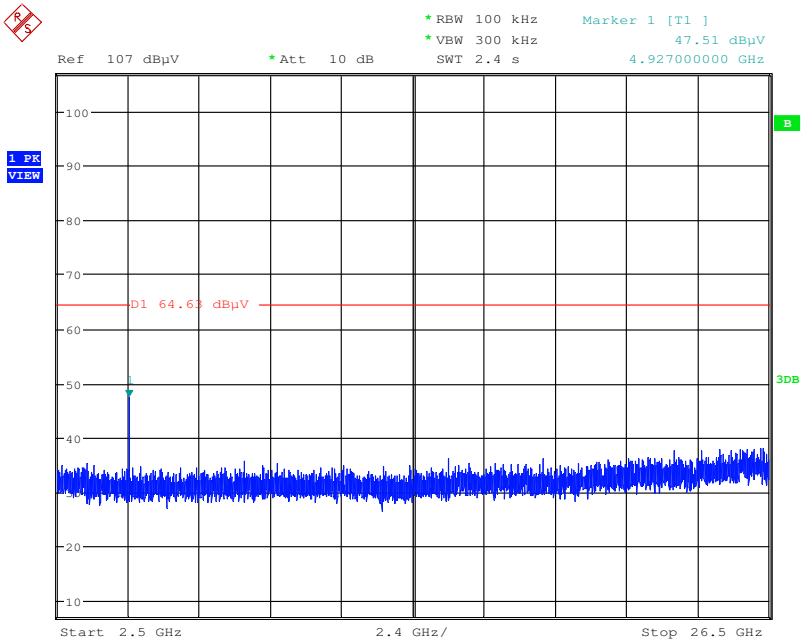

Date: 26.JUN.2015 02:41:06

## Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



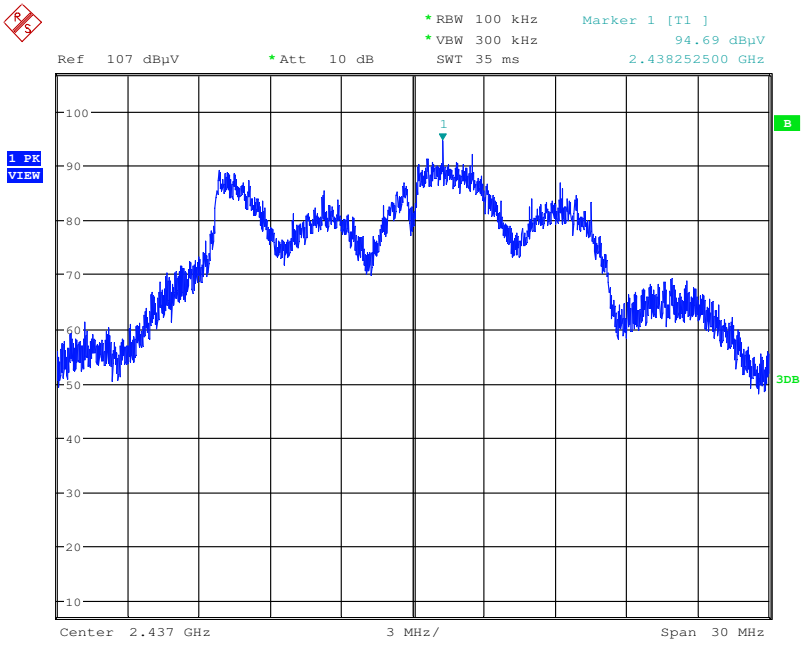

Date: 26.JUN.2015 02:43:12

## Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



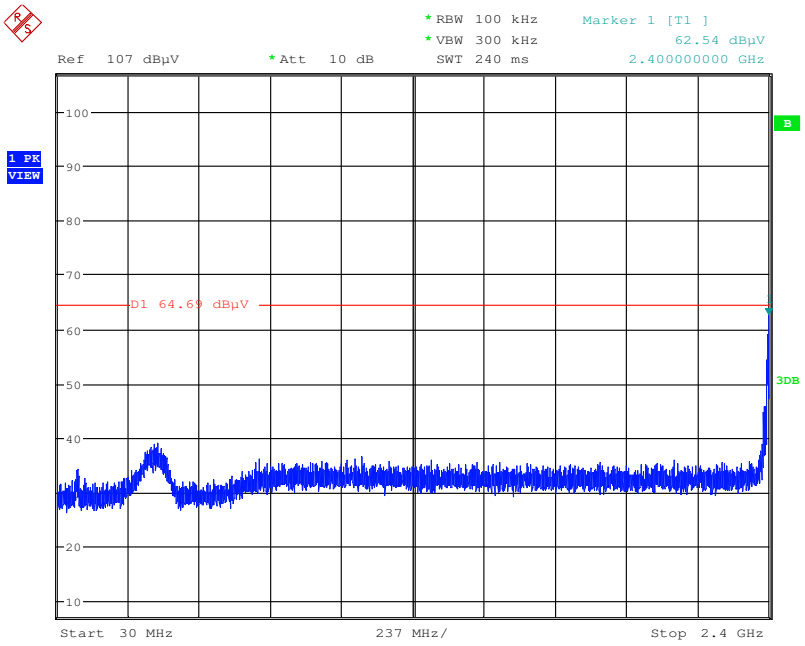

Date: 26.JUN.2015 02:42:29

## Plot on Configuration IEEE 802.11g / Reference Level



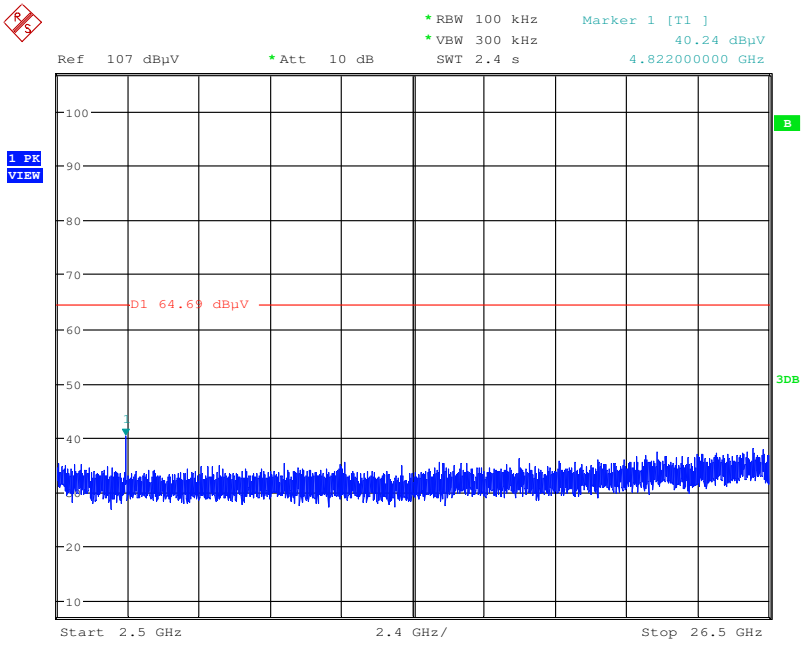

Date: 26.JUN.2015 02:30:03

## Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



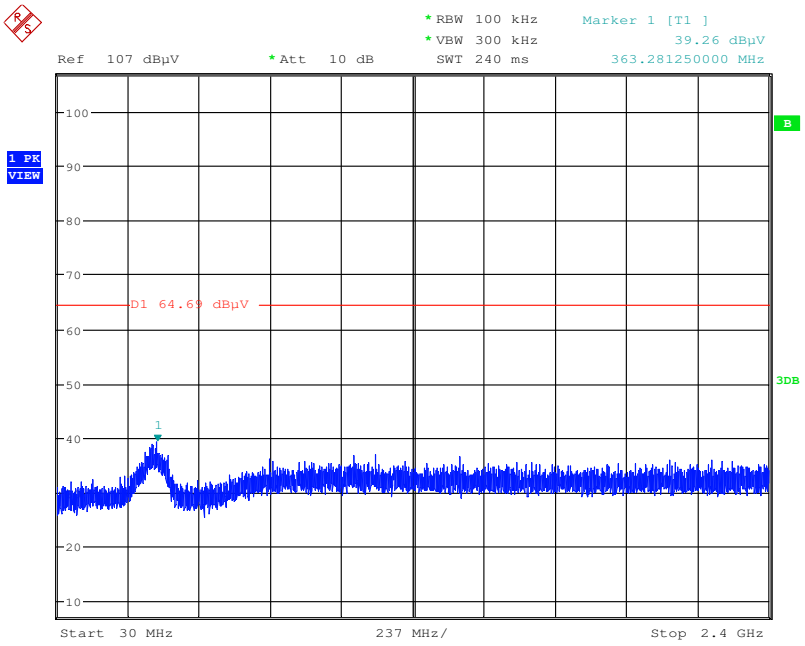

Date: 26.JUN.2015 02:32:08

## Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



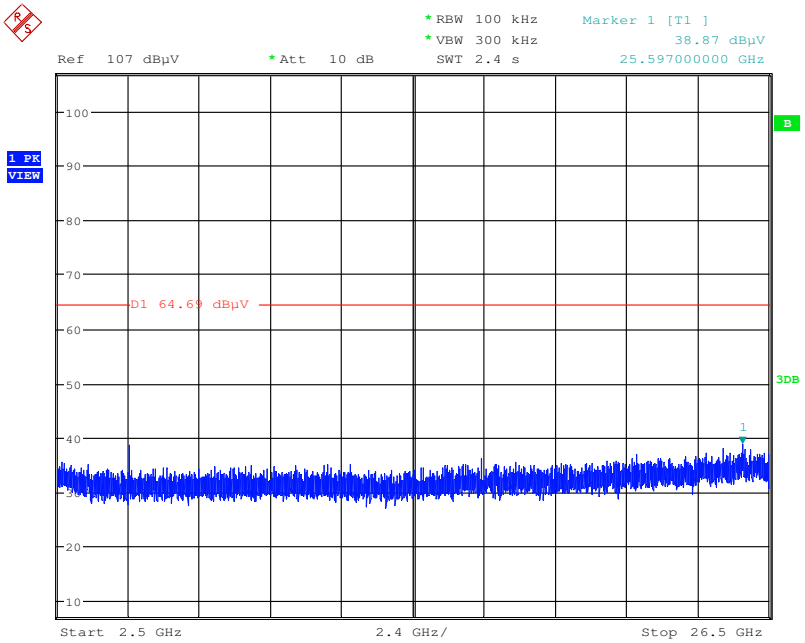

Date: 26.JUN.2015 02:32:39

## Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



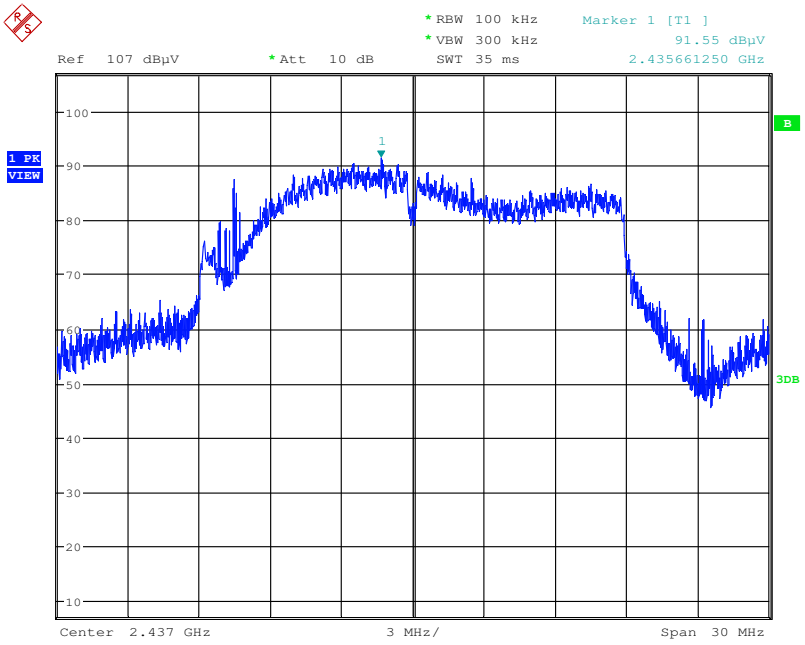

Date: 26.JUN.2015 02:34:38

## Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



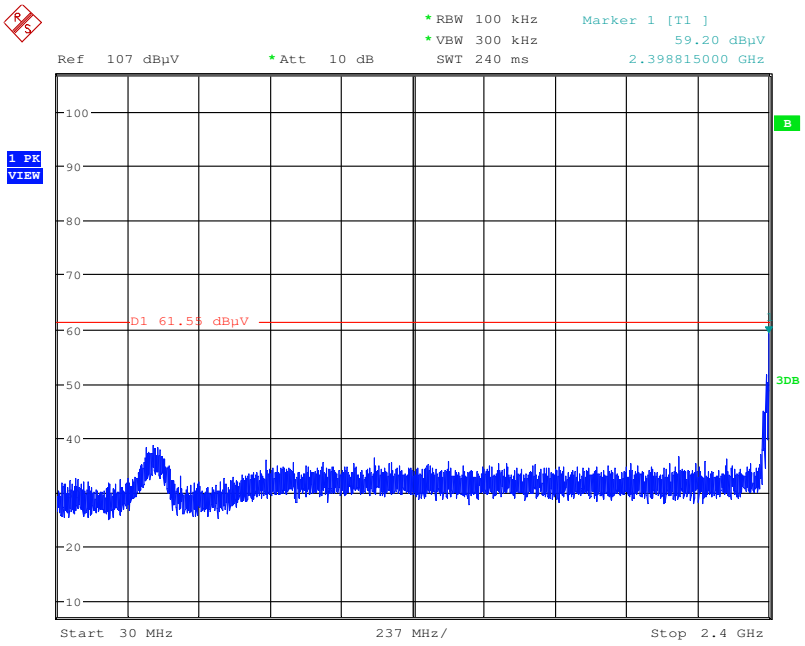

Date: 26.JUN.2015 02:33:50

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



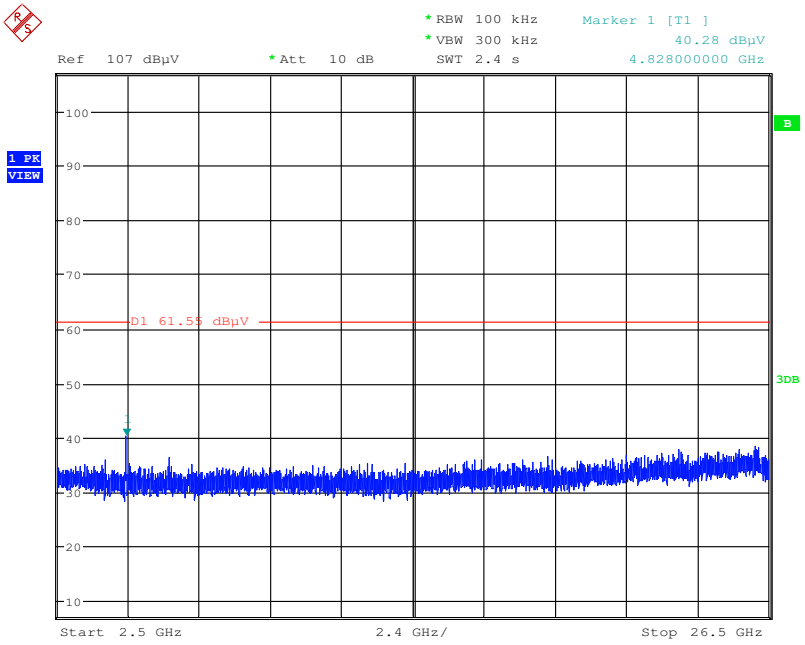

Date: 26.JUN.2015 02:47:07

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



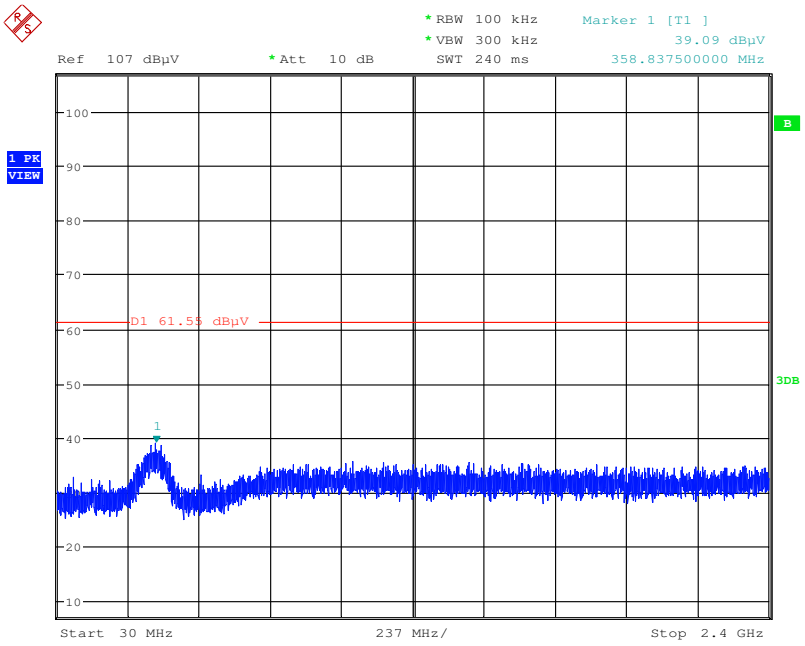

Date: 26.JUN.2015 02:49:22

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



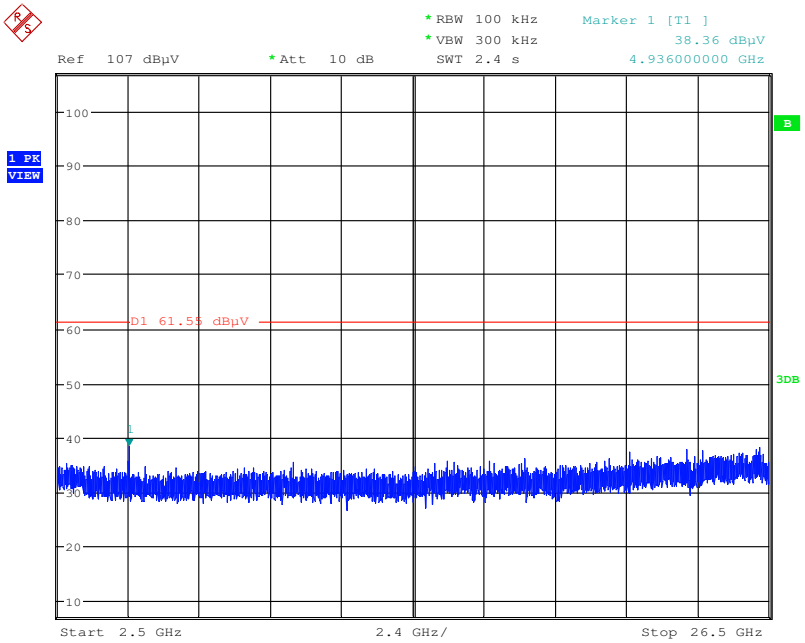

Date: 26.JUN.2015 02:50:50

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



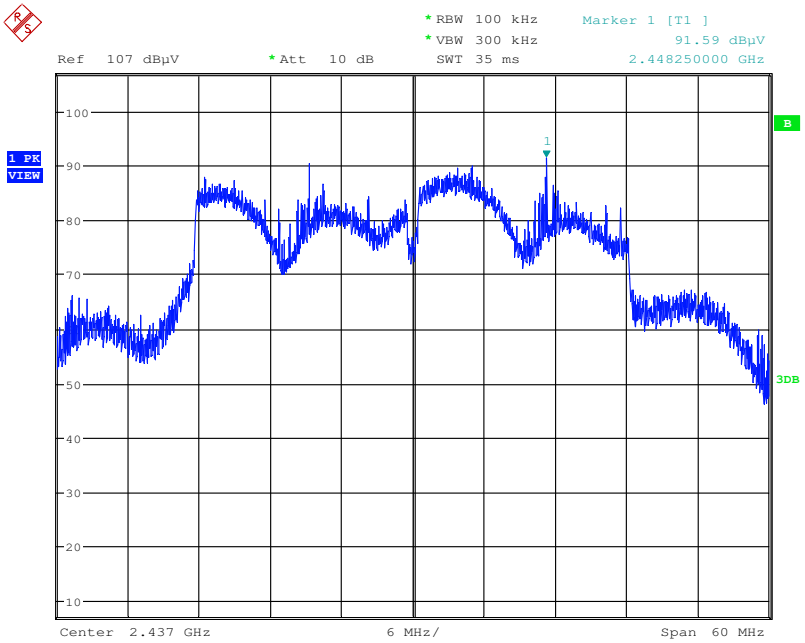

Date: 26.JUN.2015 02:52:30

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



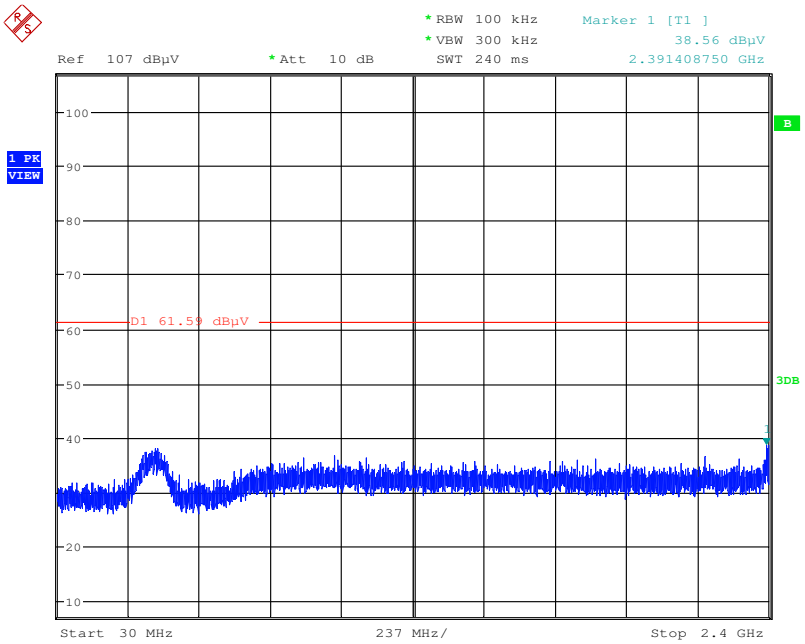

Date: 26.JUN.2015 02:51:57

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



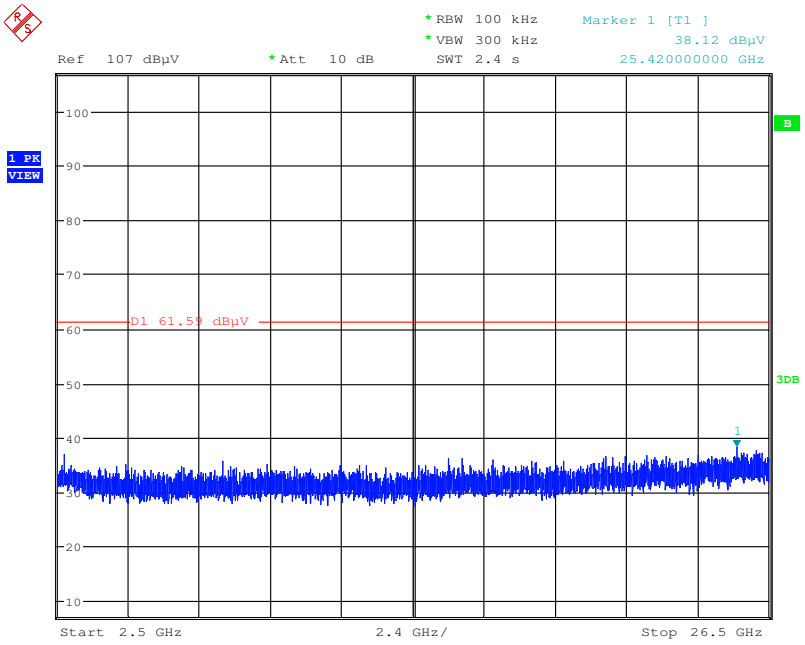

Date: 26.JUN.2015 02:56:46

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



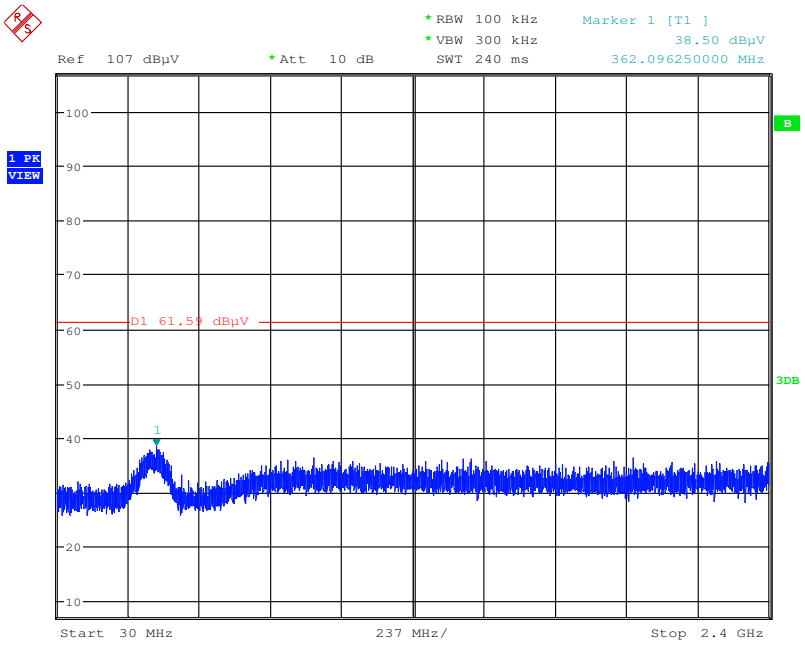

Date: 26.JUN.2015 03:03:42

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



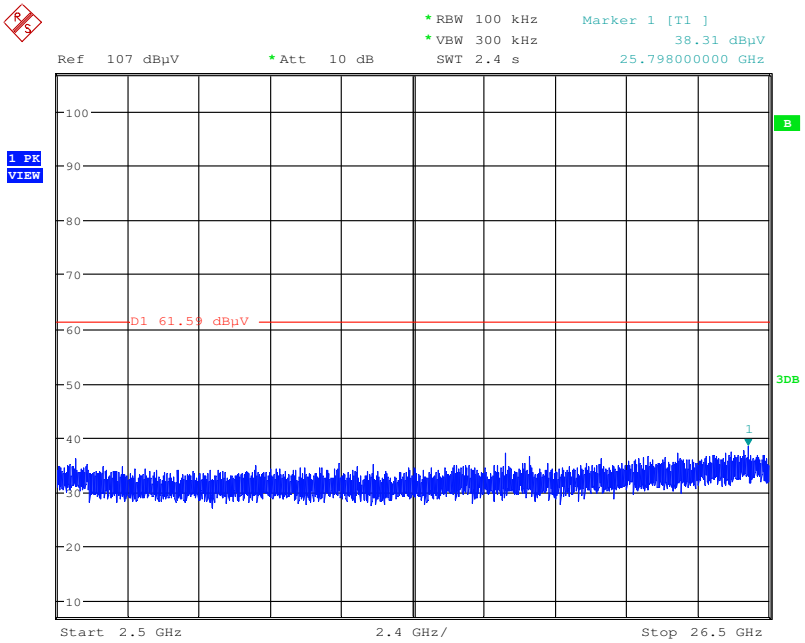

Date: 26.JUN.2015 03:04:14

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)




Date: 26.JUN.2015 03:05:29

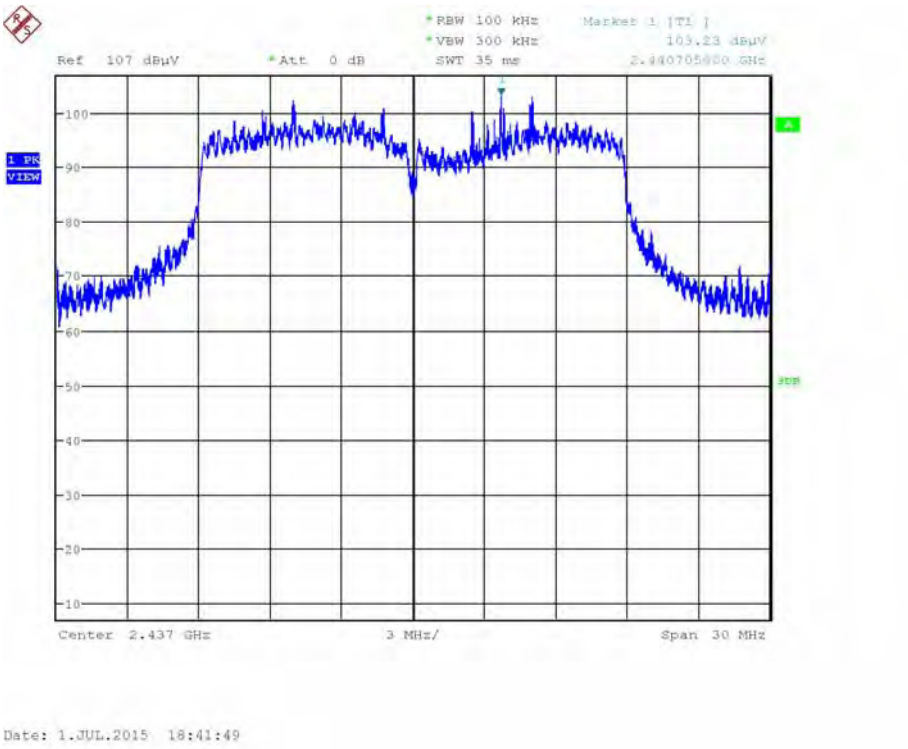
## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)




Date: 26.JUN.2015 03:04:58

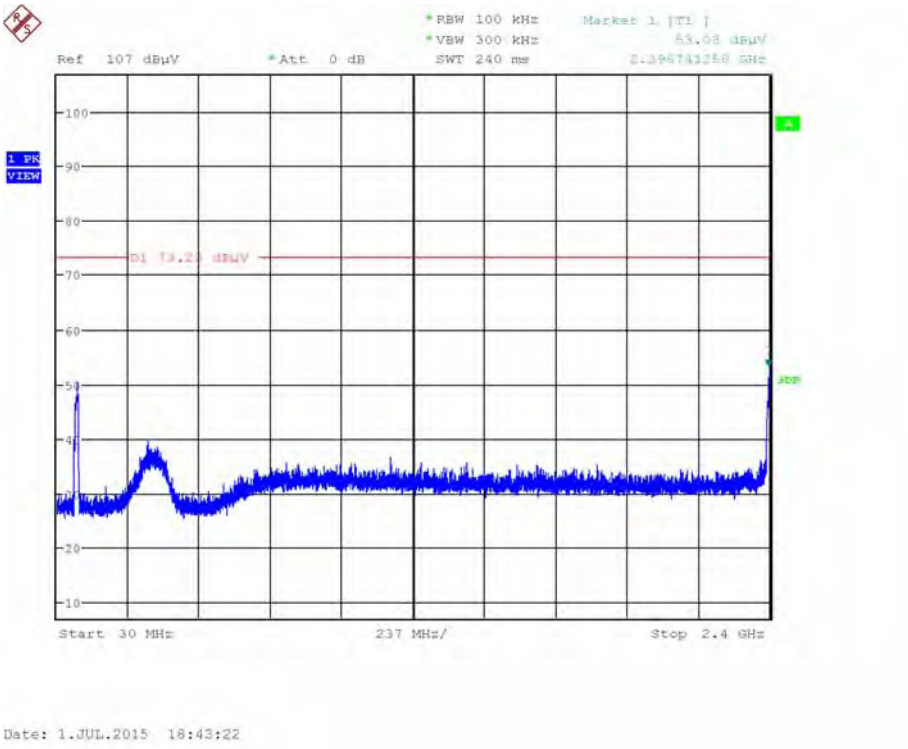
<For Radio 1 Non-beamforming Mode>: 3TX, 2S

Plot on Configuration IEEE 802. MCS0/Nss2 VHT20 / Reference Level



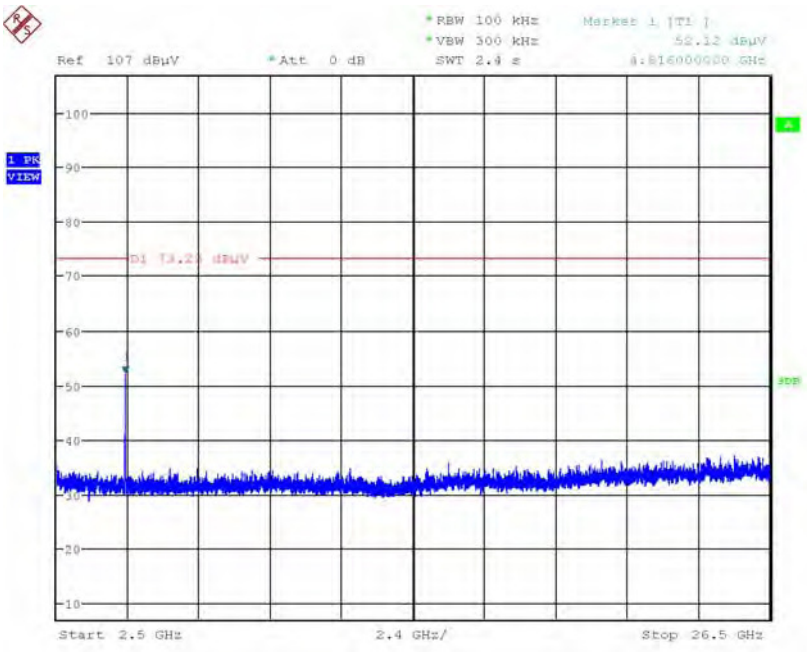

Date: 1.JUL.2015 18:41:49

Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



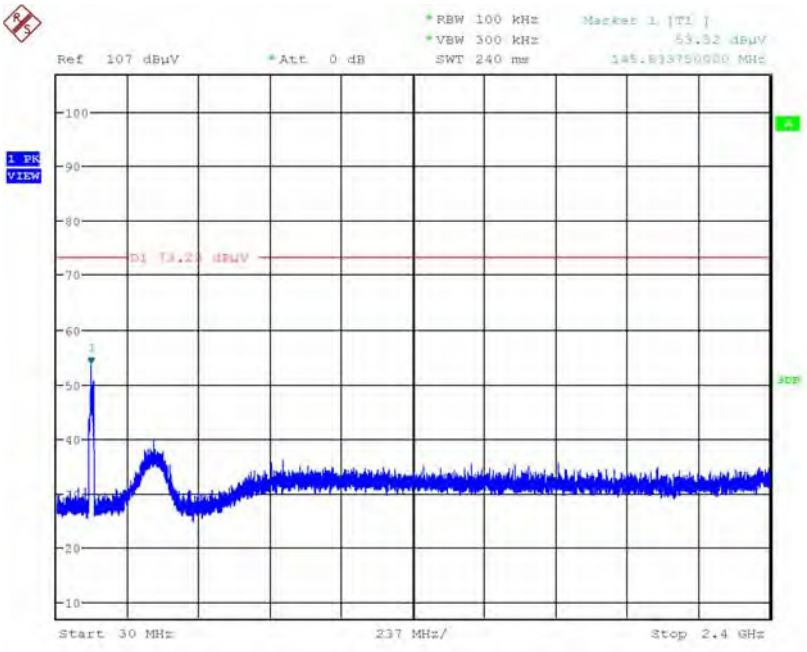

Date: 1.JUL.2015 18:43:22

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)**



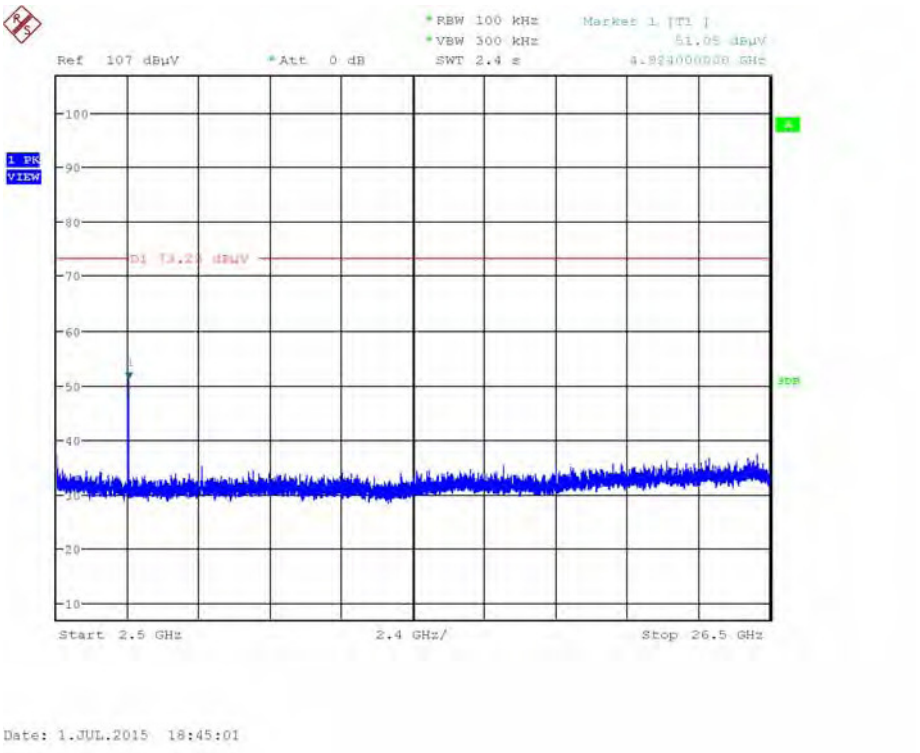

Date: 1.JUL.2015 18:44:21

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)**

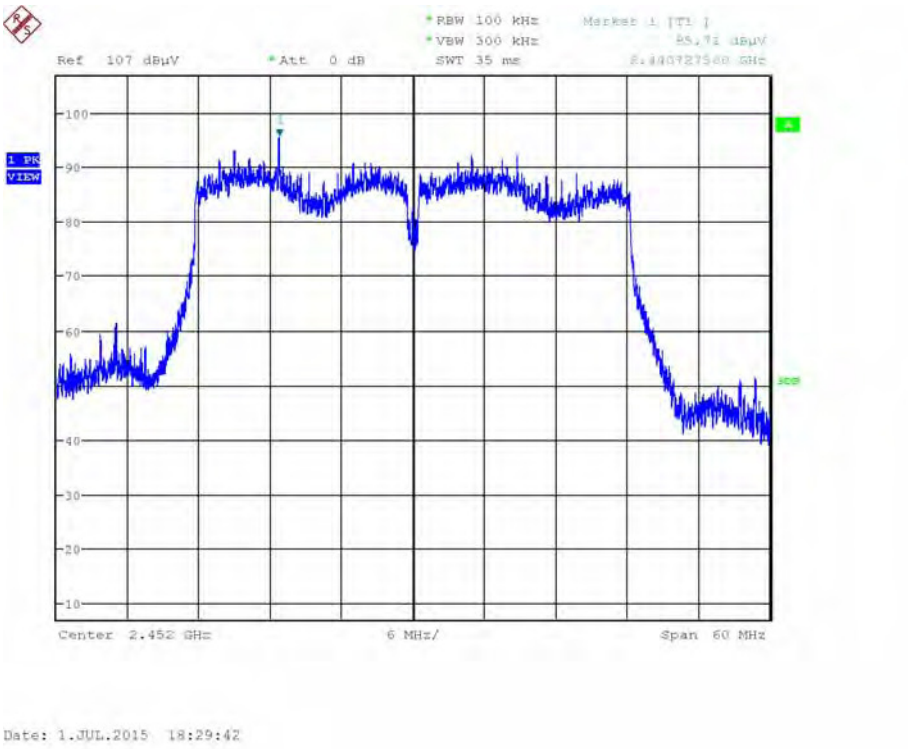



Date: 1.JUL.2015 18:45:27

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

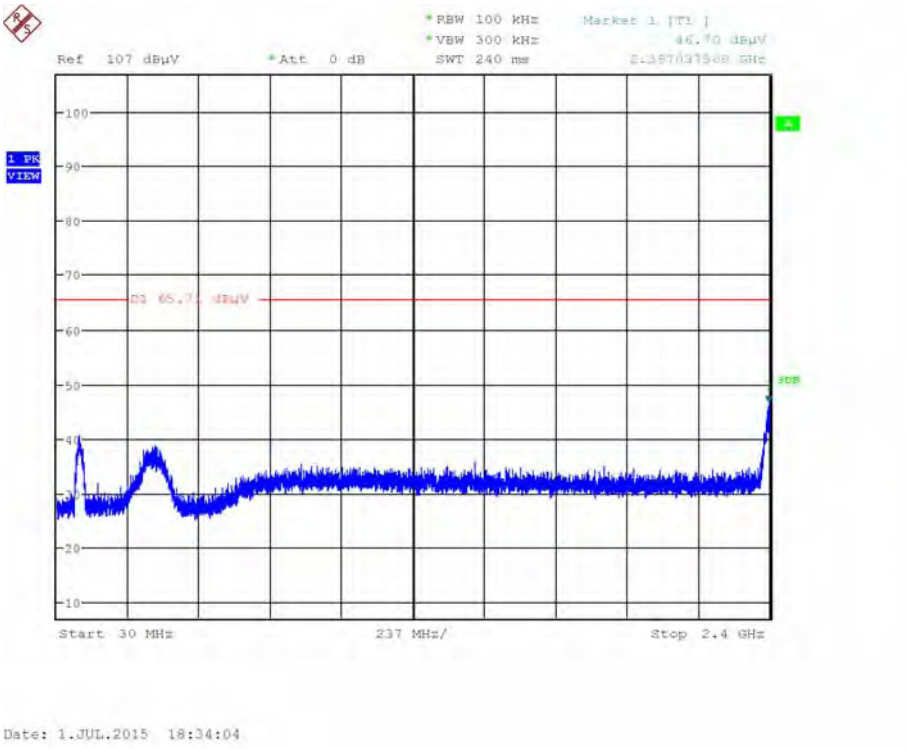


## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Reference Level



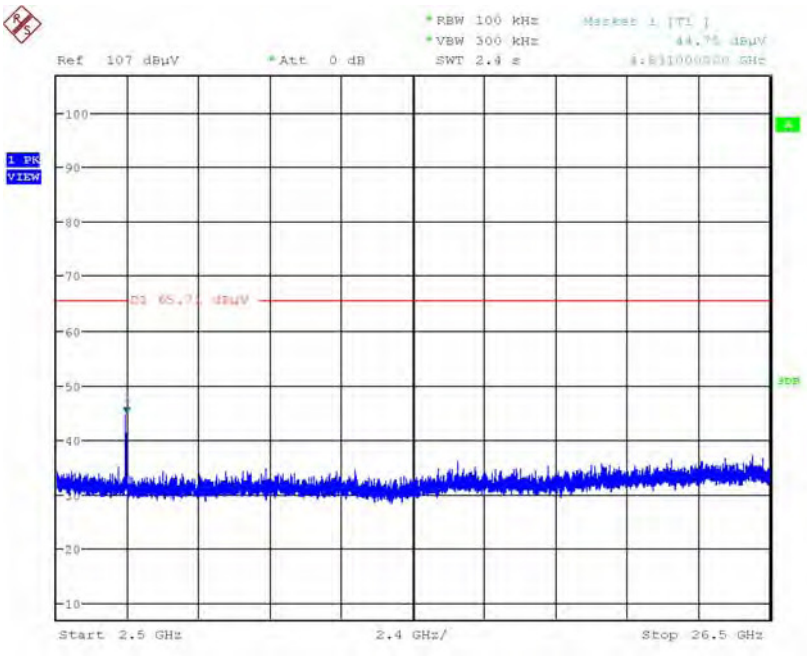

Date: 1.JUL.2015 18:29:42

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



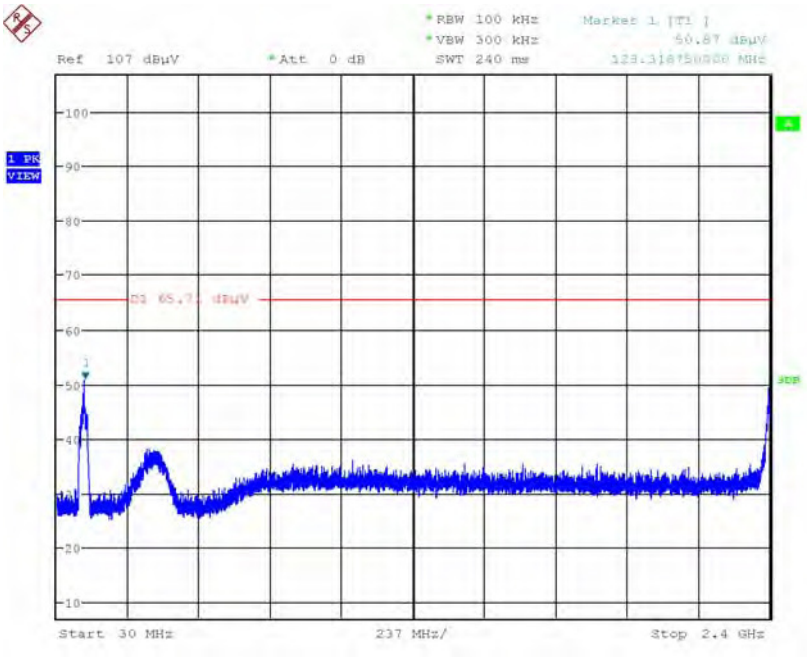

Date: 1.JUL.2015 18:34:04

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**



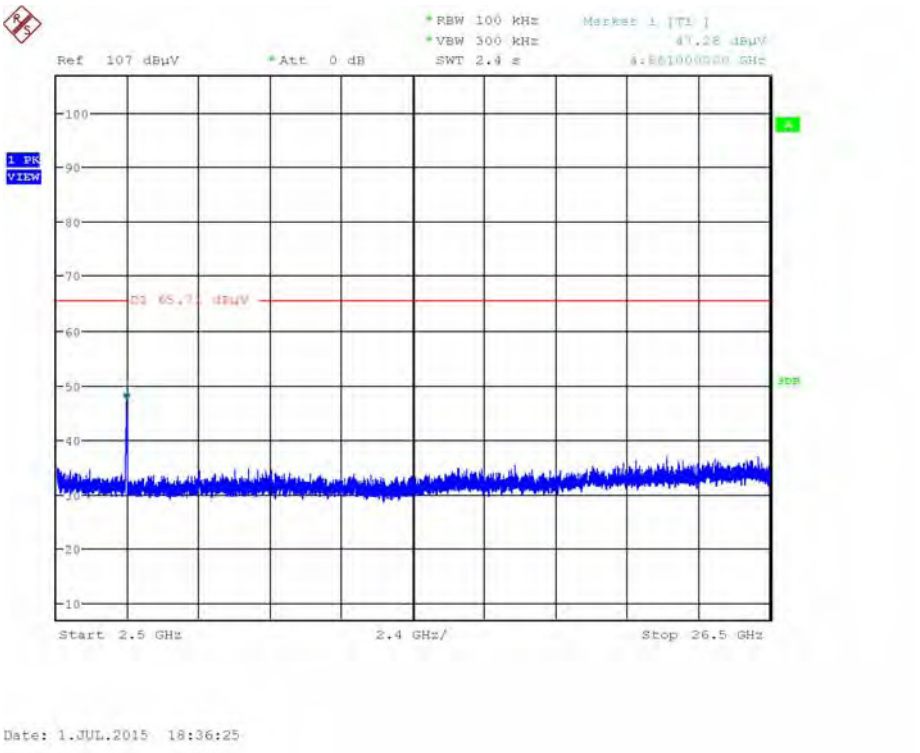

Date: 1.JUL.2015 18:35:36

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**



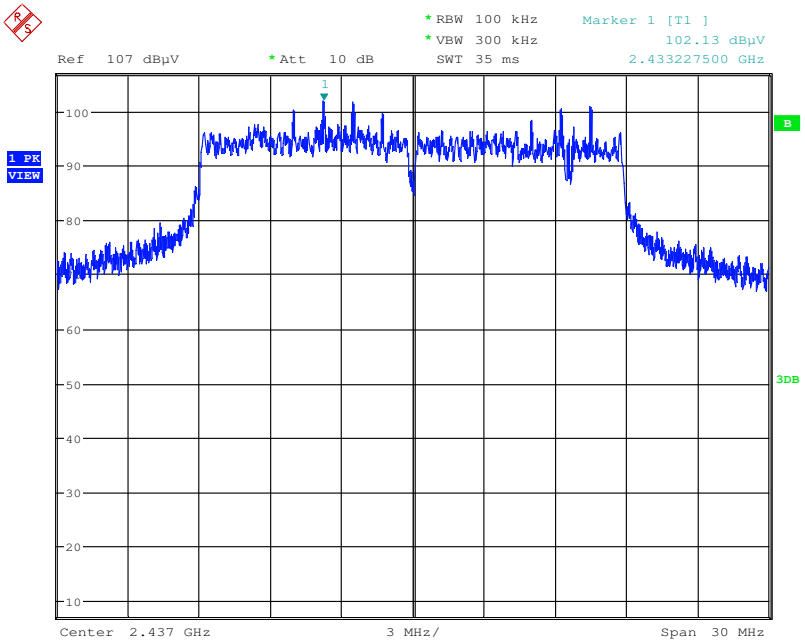

Date: 1.JUL.2015 18:39:13

**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)**



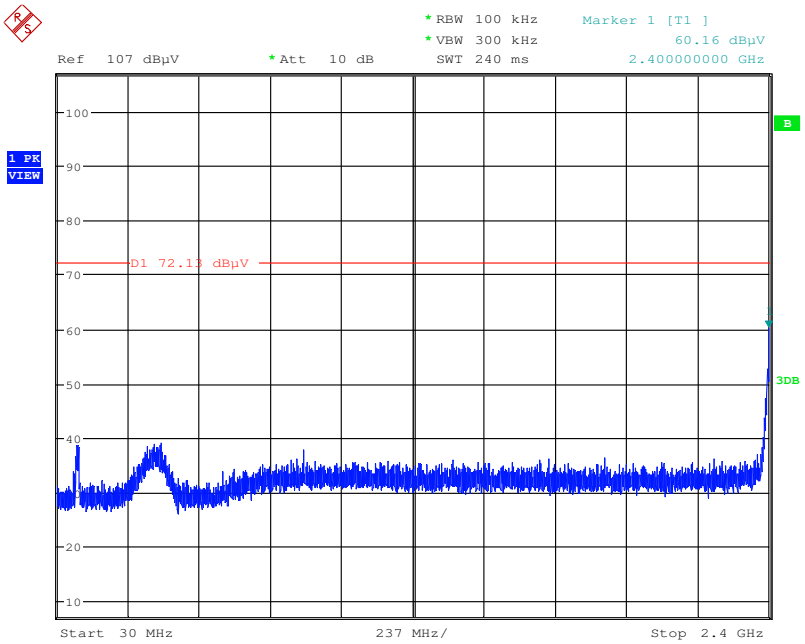
## <For Radio 1 Non-beamforming Mode>: 3TX, 3S

### Plot on Configuration IEEE 802. MCS0/Nss3 VHT20 / Reference Level



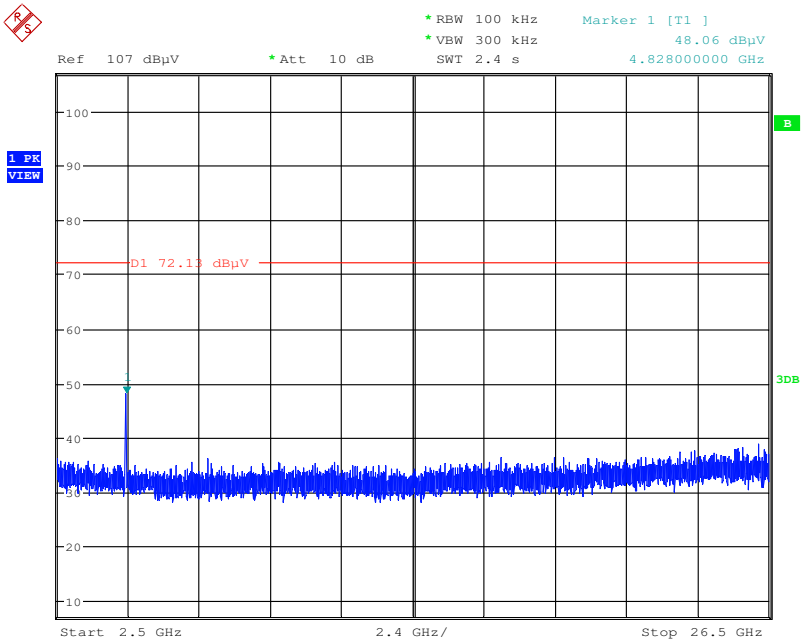

Date: 1.JUL.2015 23:23:33

### Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



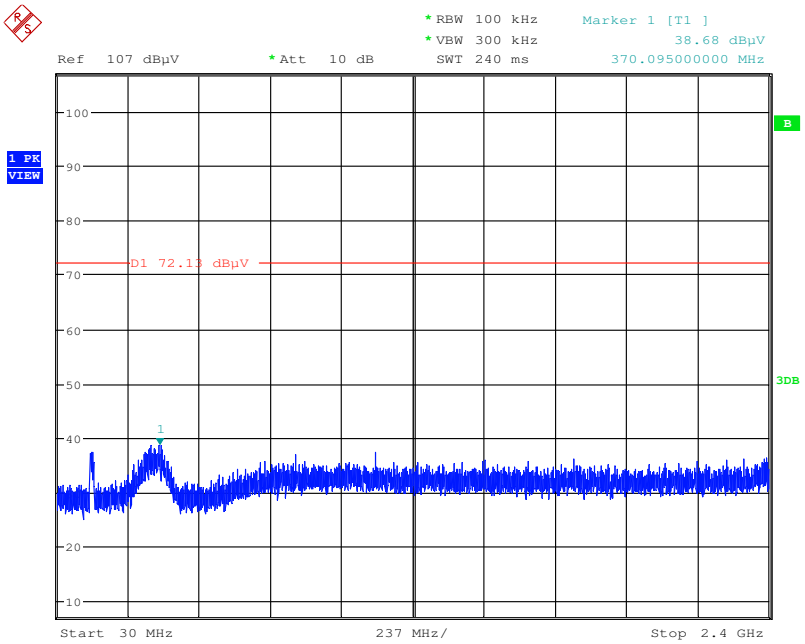

Date: 1.JUL.2015 23:25:25

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



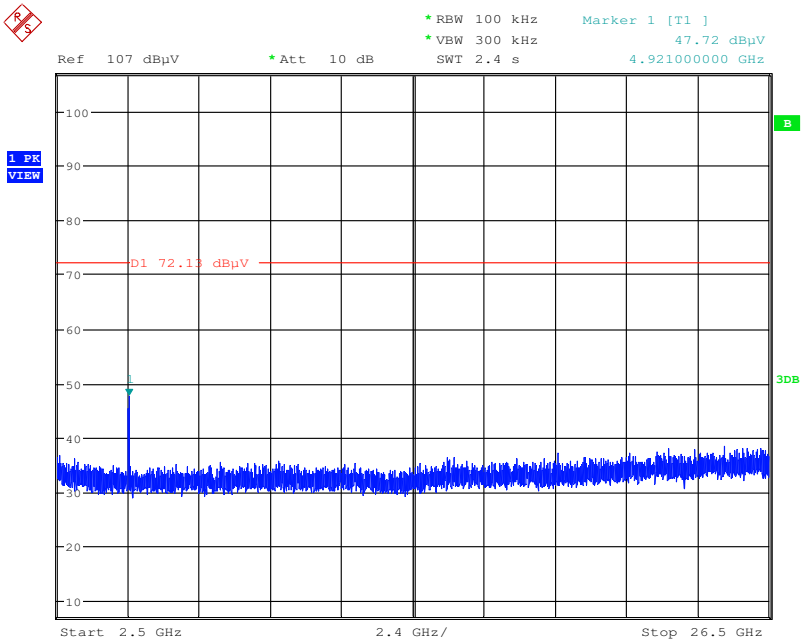

Date: 1.JUL.2015 23:26:09

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



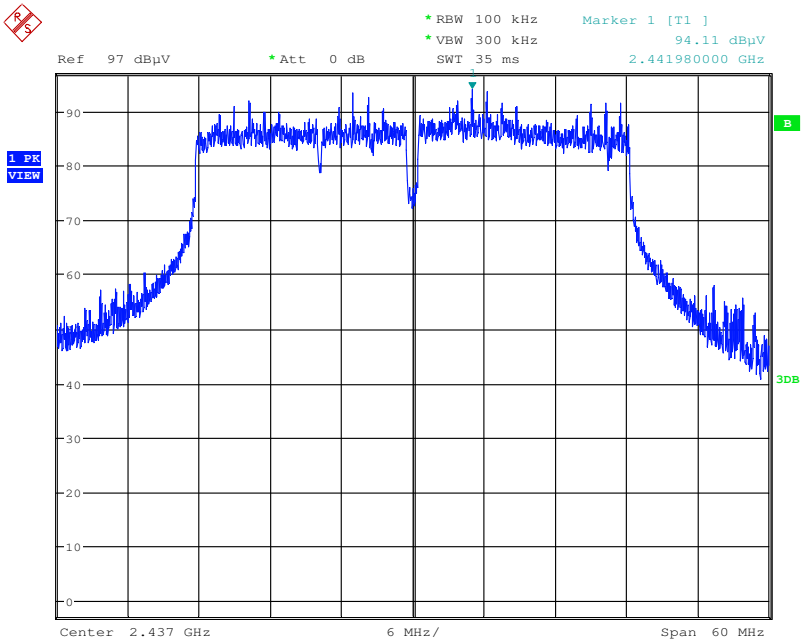

Date: 1.JUL.2015 23:27:32

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



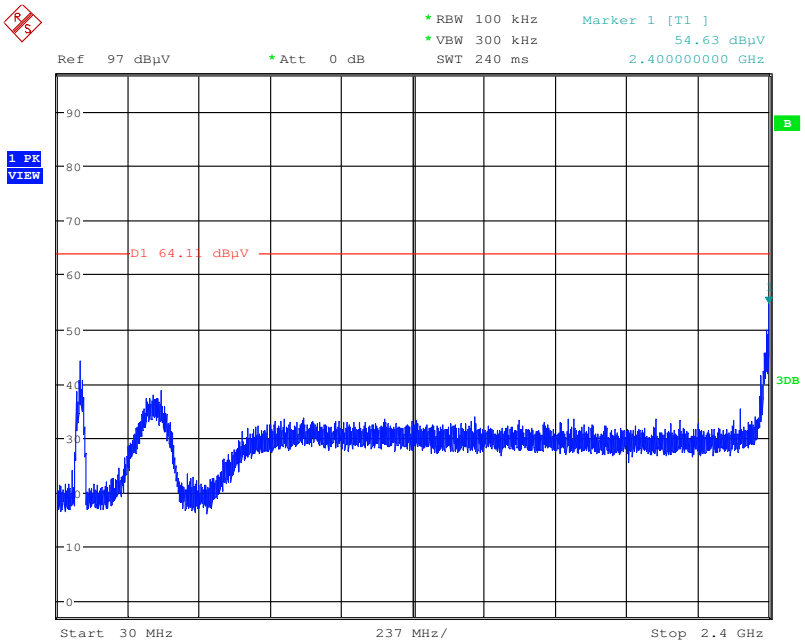

Date: 1.JUL.2015 23:27:06

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / Reference Level



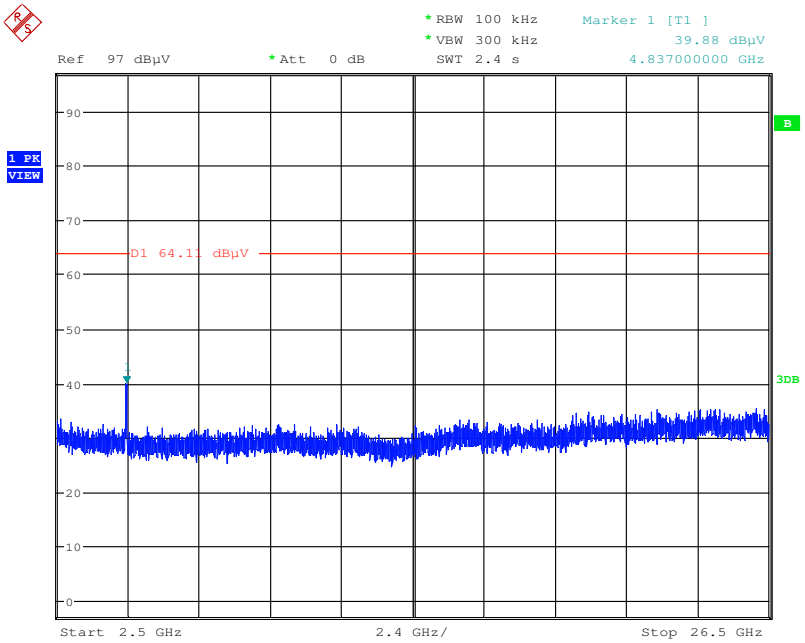

Date: 1.JUL.2015 23:15:29

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



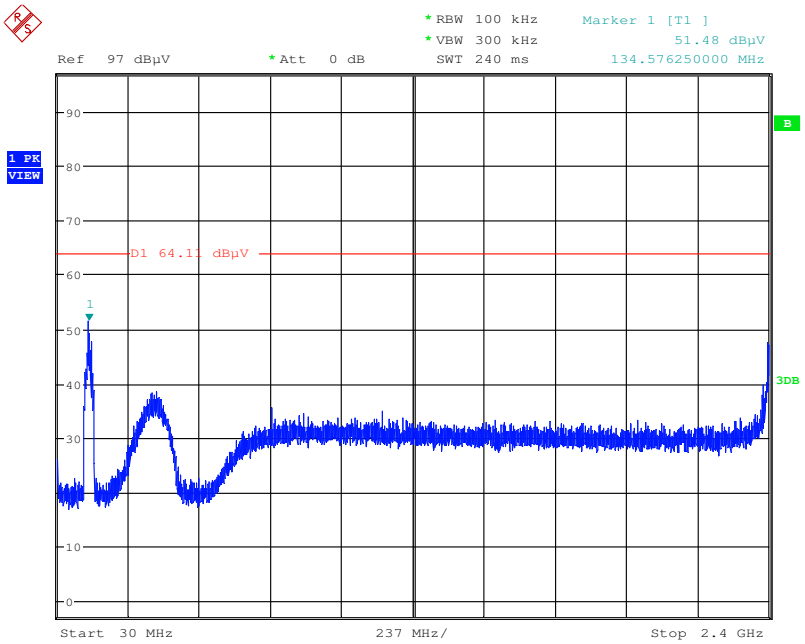

Date: 1.JUL.2015 23:17:57

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



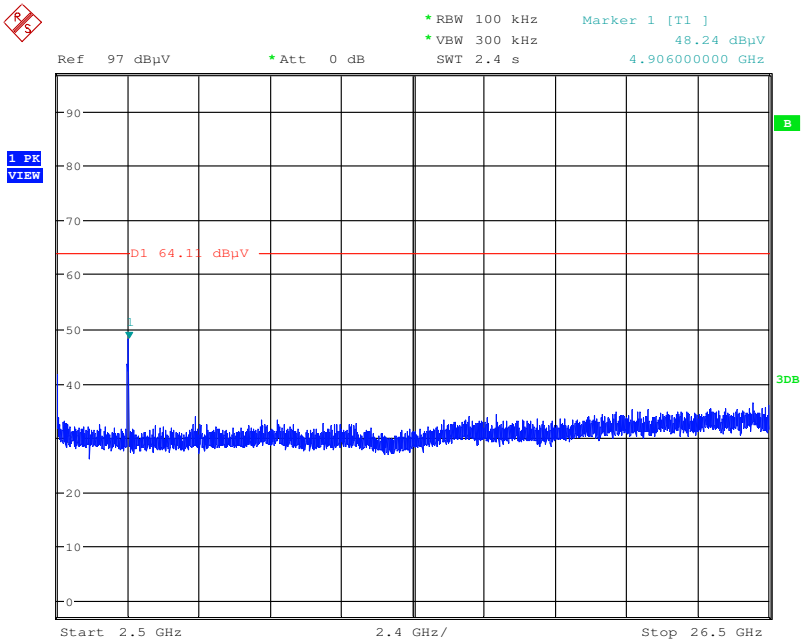

Date: 1.JUL.2015 23:18:46

## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)




Date: 1.JUL.2015 23:20:23

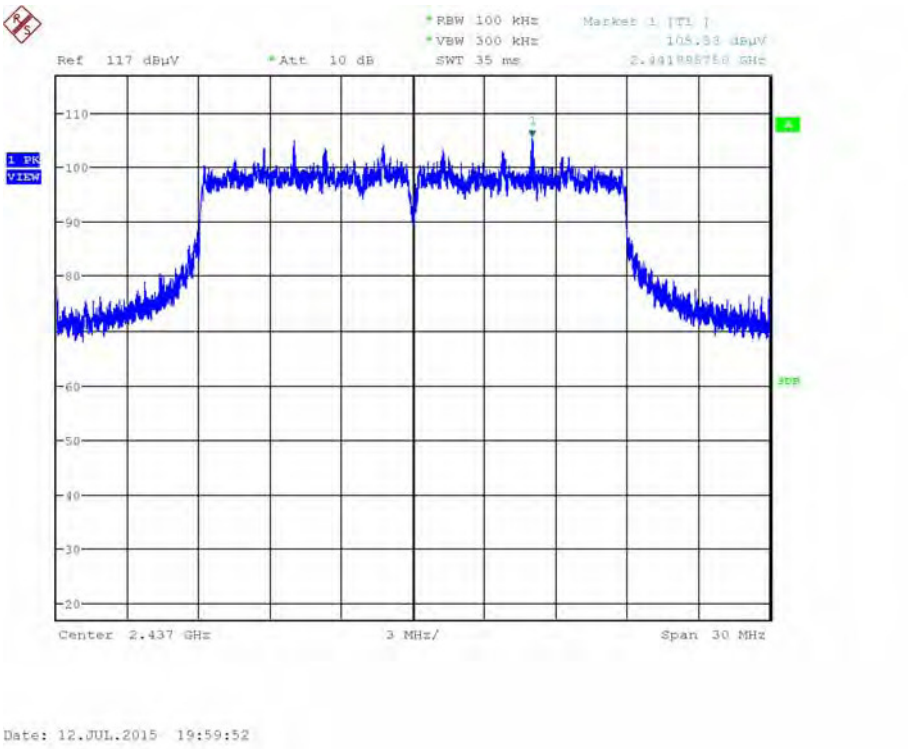
## Plot on Configuration IEEE 802.11ac MCS0/Nss3 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)




Date: 1.JUL.2015 23:19:45

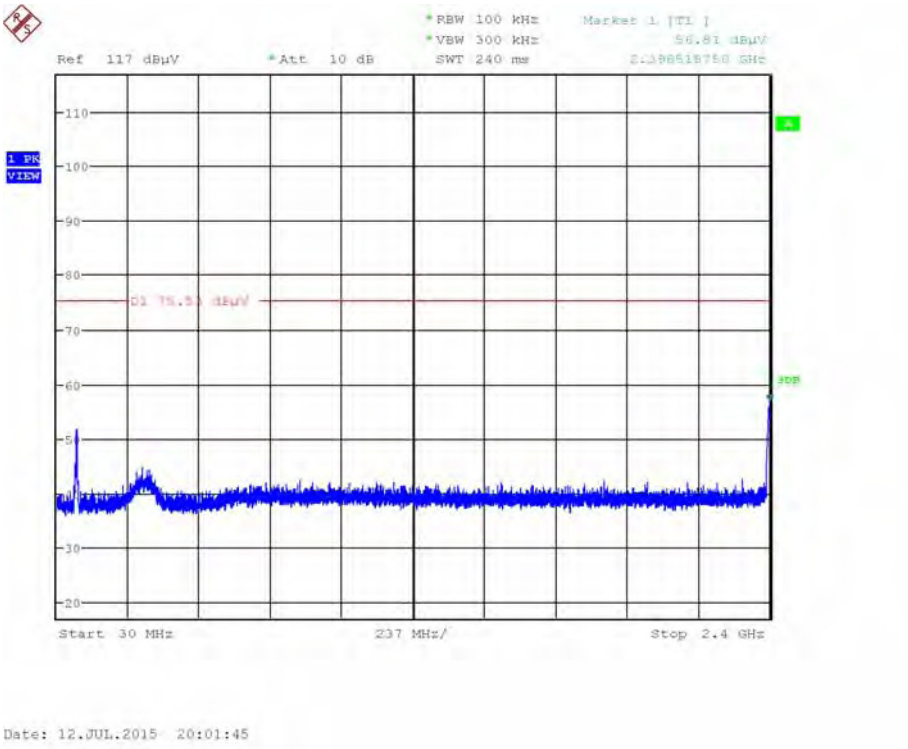
<For Radio 1 Beamforming Mode>: 2TX, 1S

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20/ Reference Level



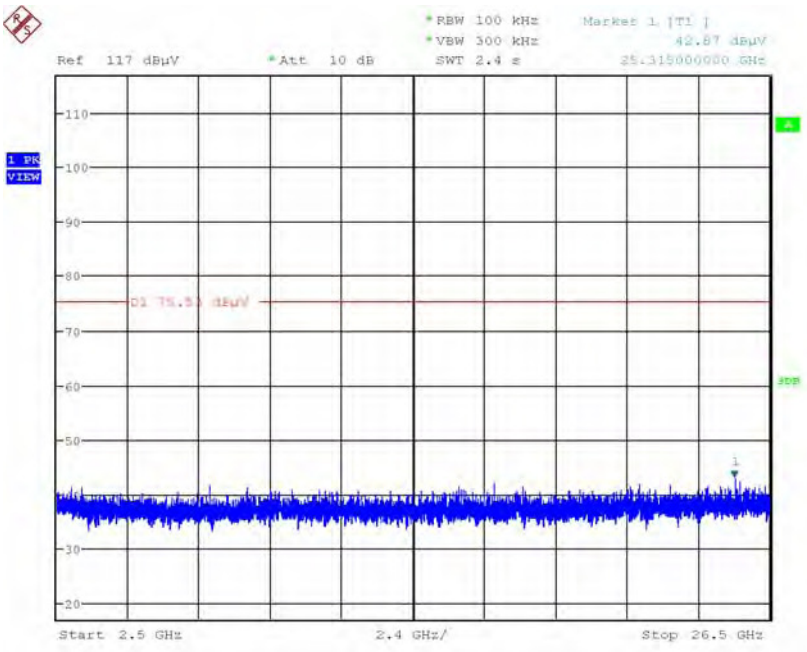

Date: 12.JUL.2015 19:59:52

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



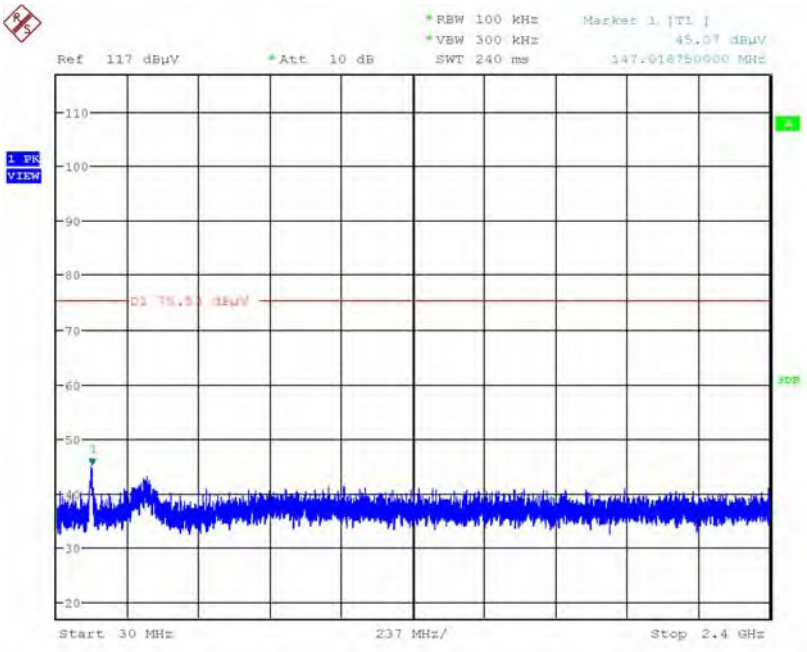

Date: 12.JUL.2015 20:01:45

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



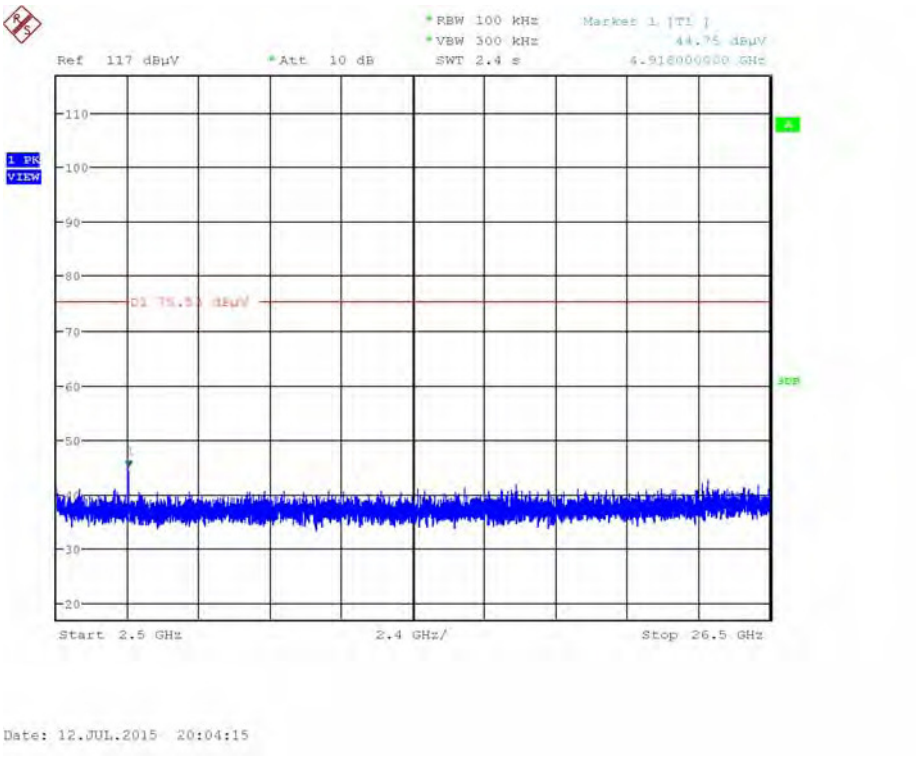

Date: 12.JUL.2015 20:02:05

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)

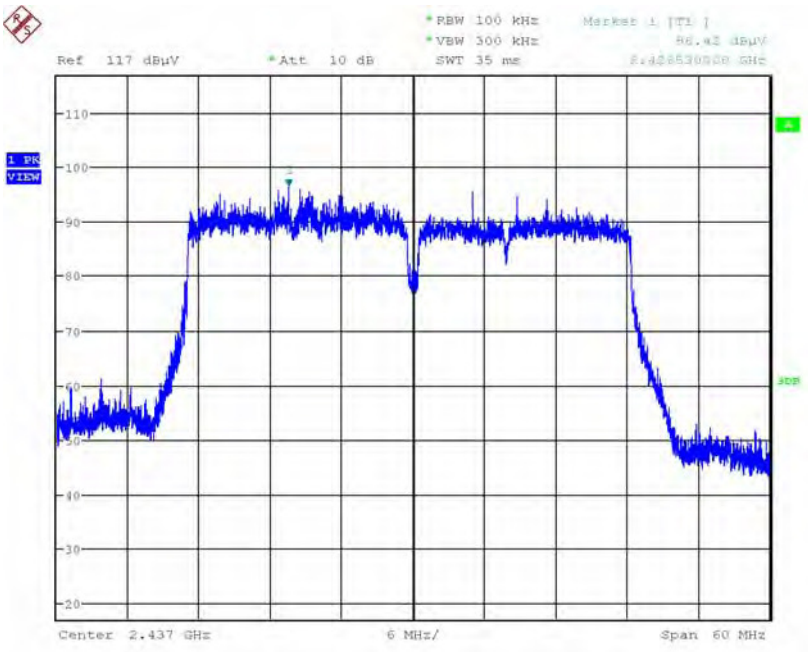



Date: 12.JUL.2015 20:03:54

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

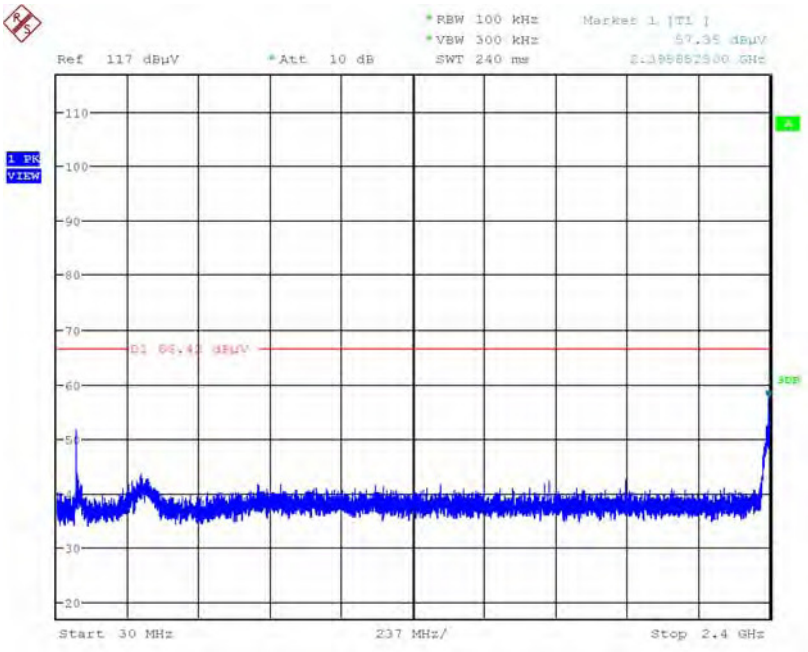


## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



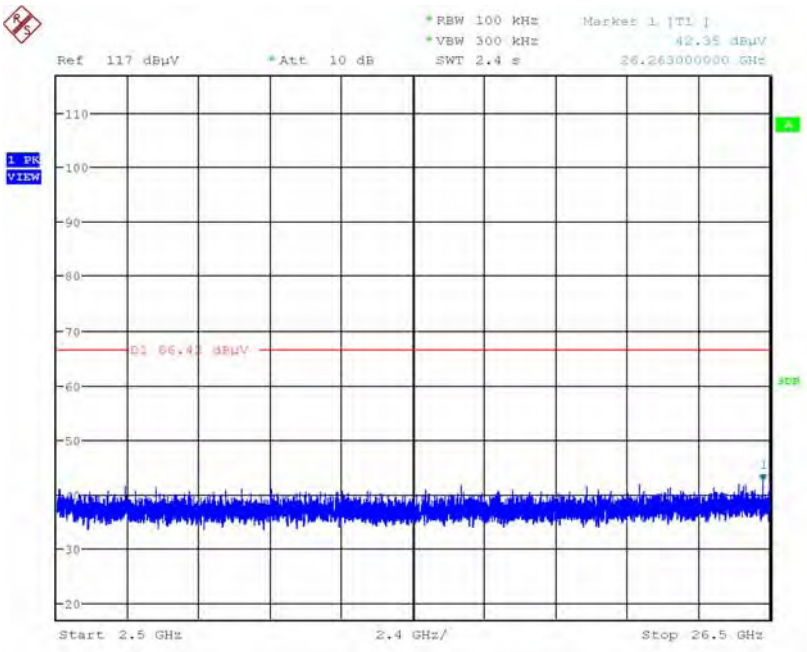

Date: 12.JUL.2015 20:05:47

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



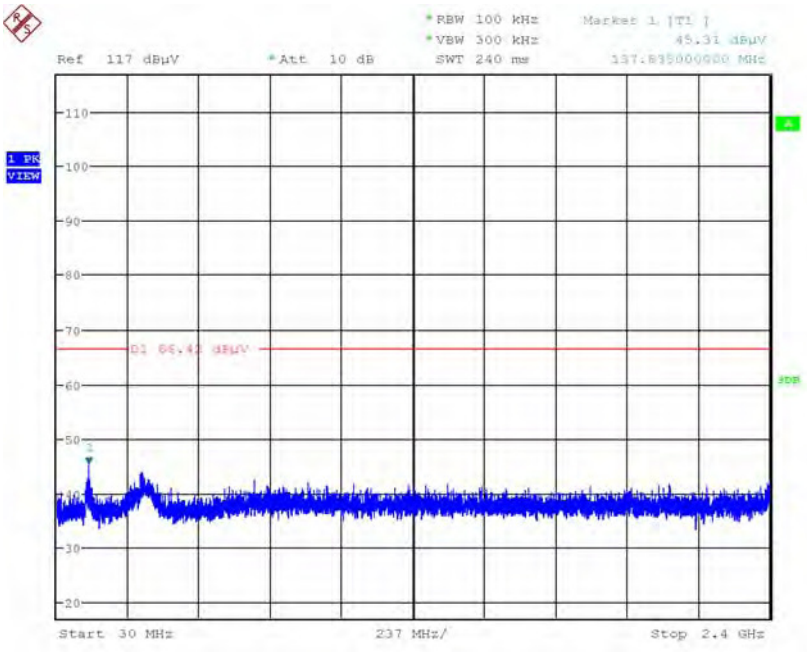

Date: 12.JUL.2015 20:07:08

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**



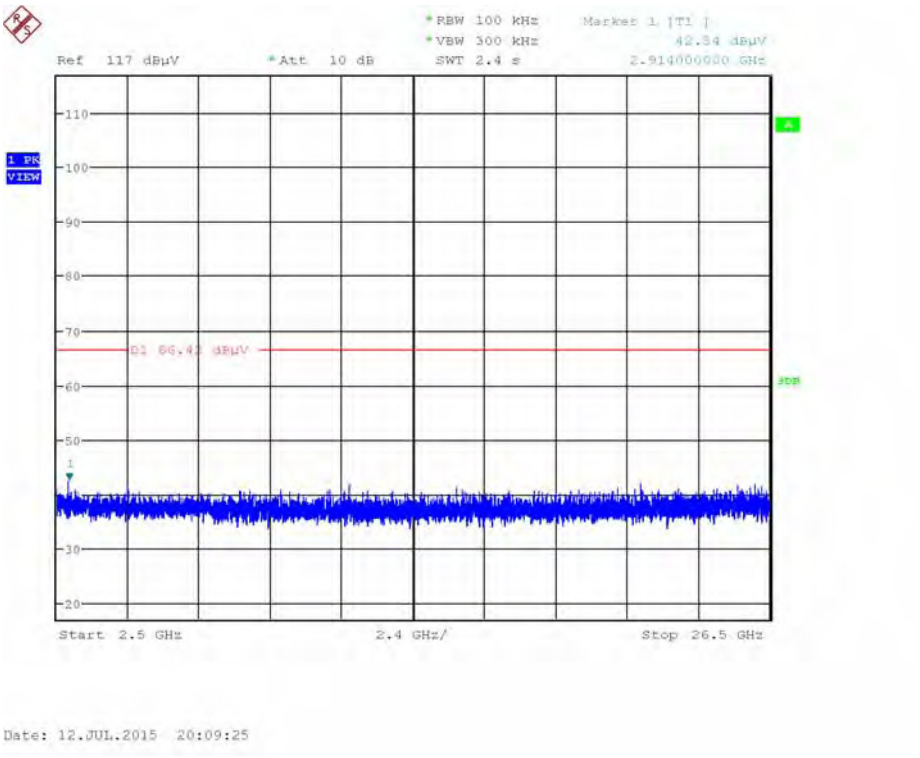

Date: 12.JUL.2015 20:07:41

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**



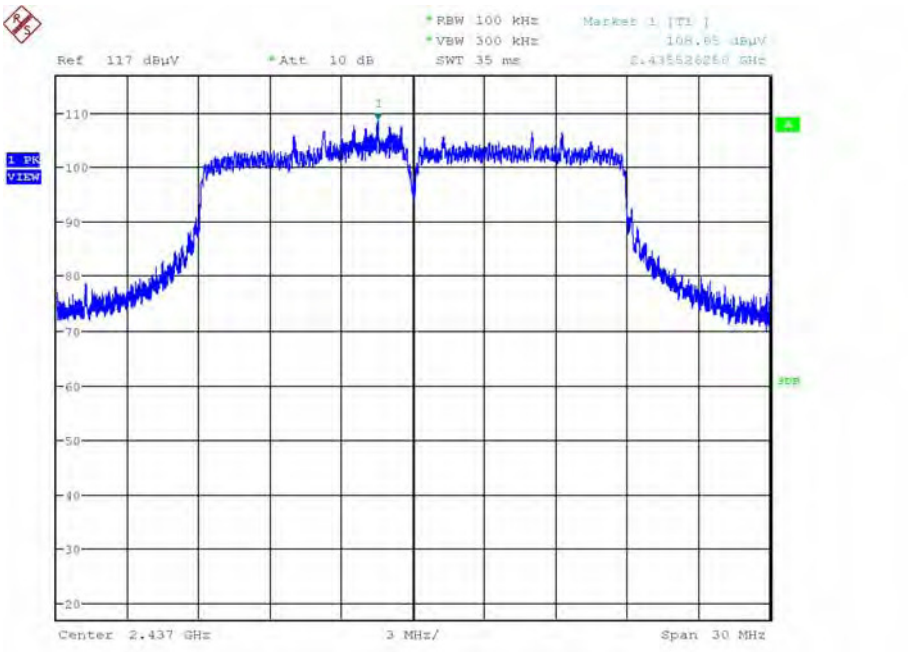

Date: 12.JUL.2015 20:09:06

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)



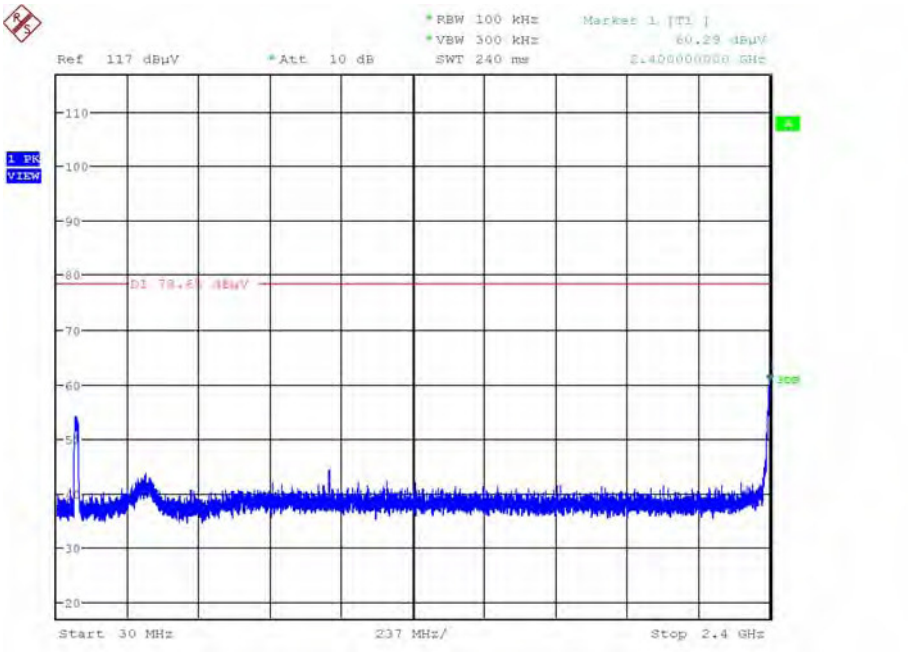
<For Radio 1 Beamforming Mode>: 3TX, 1S

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20/ Reference Level



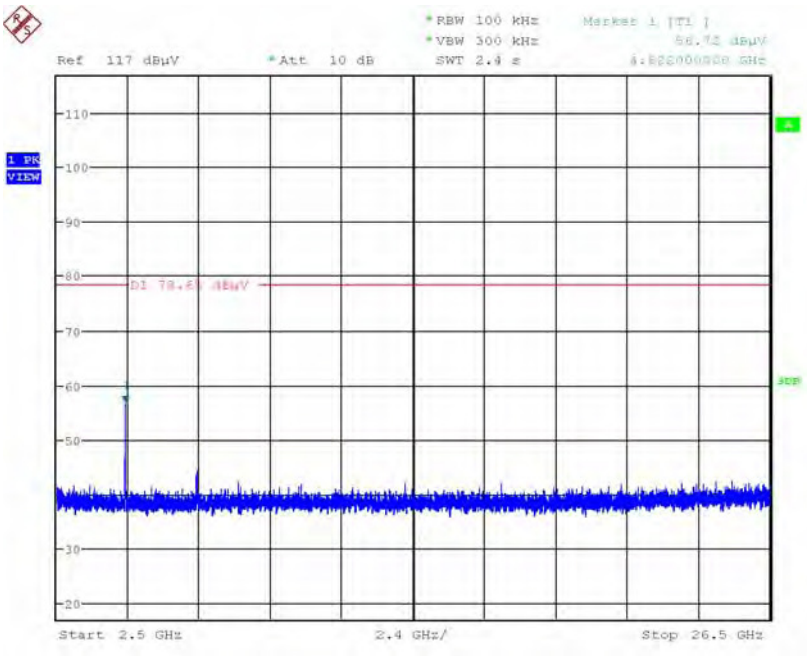

Date: 12.JUL.2015 19:07:46

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



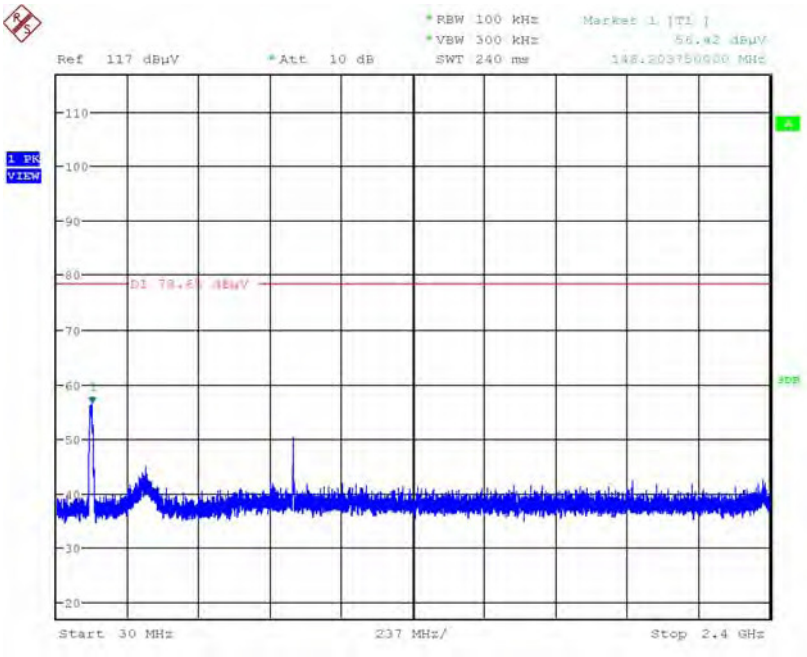

Date: 12.JUL.2015 19:09:52

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)**



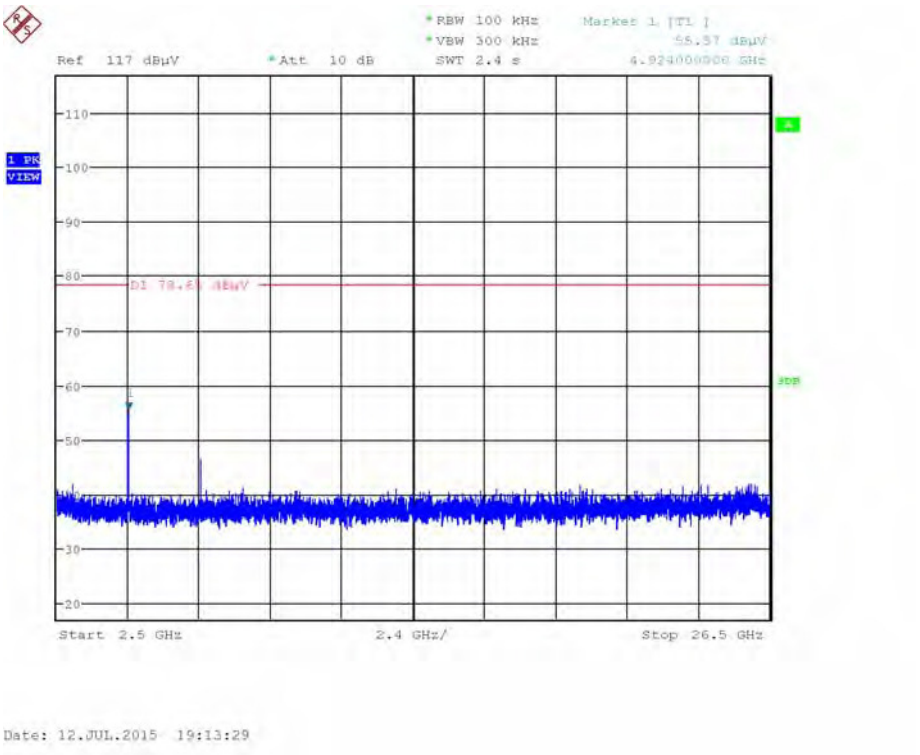

Date: 12.JUL.2015 19:10:56

**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)**

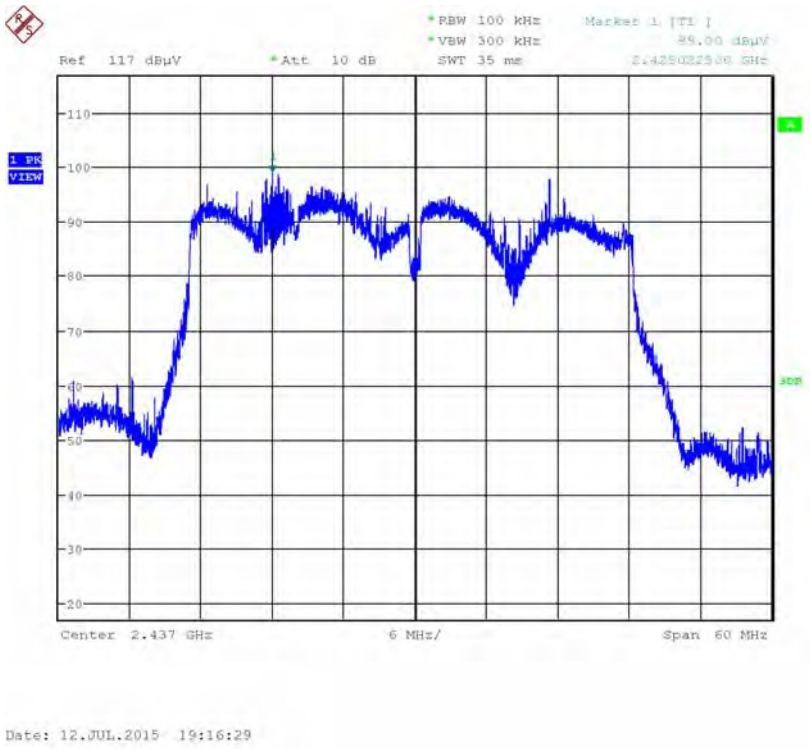



Date: 12.JUL.2015 19:12:51

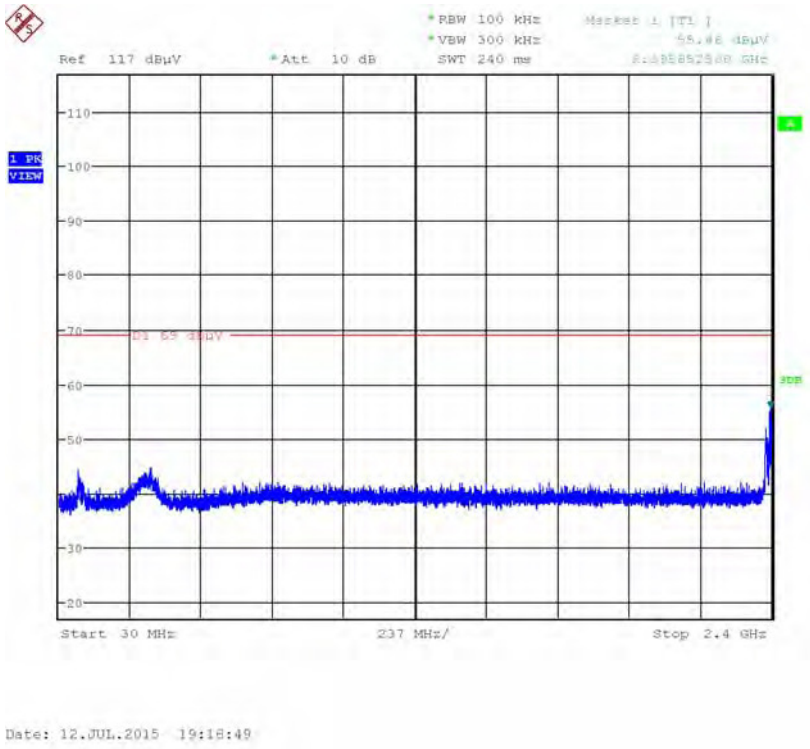
## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



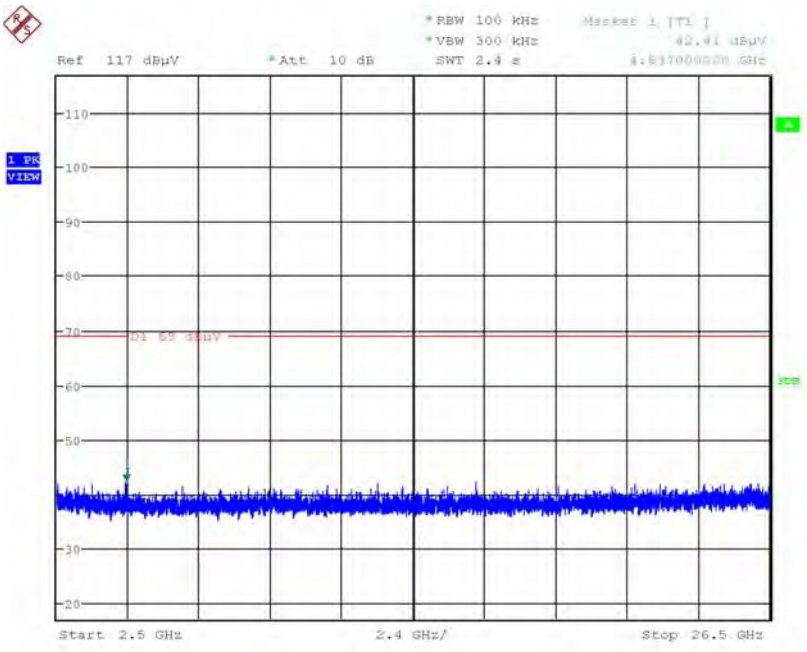
## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



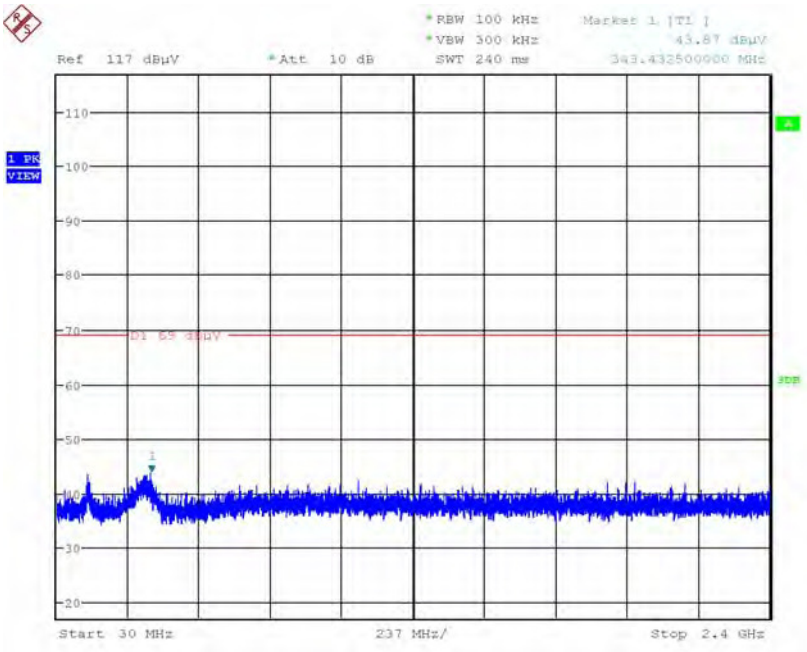

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



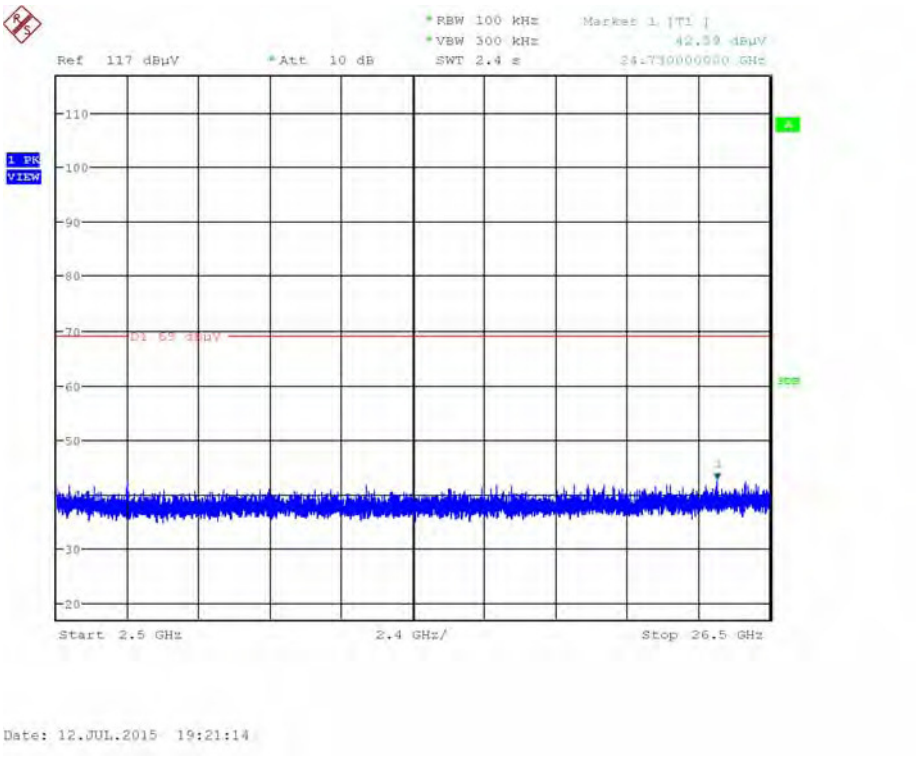
## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)




## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)

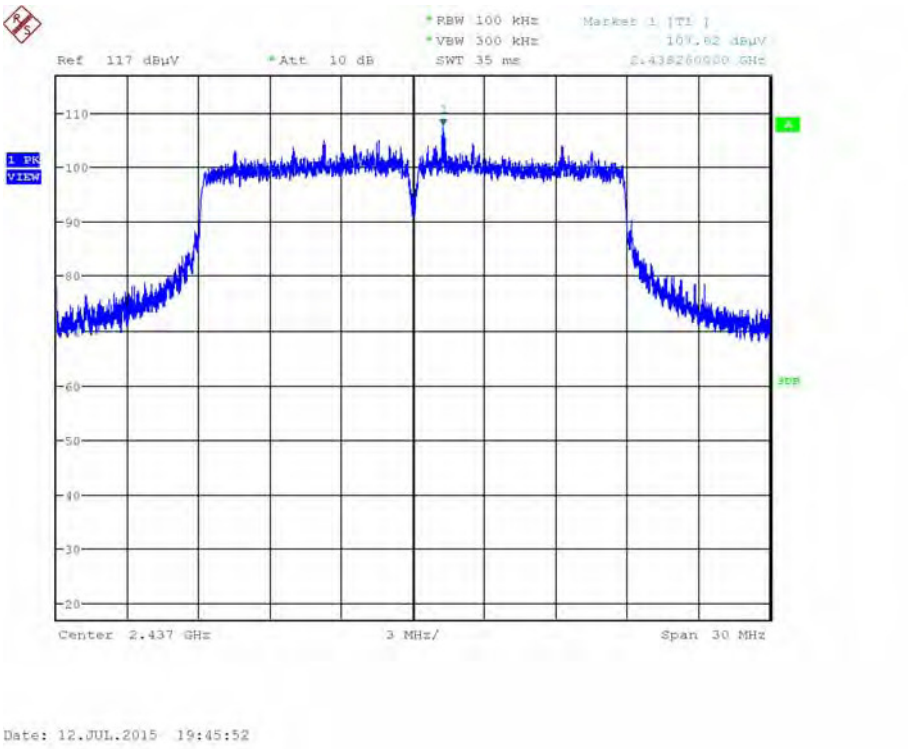


**Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)**



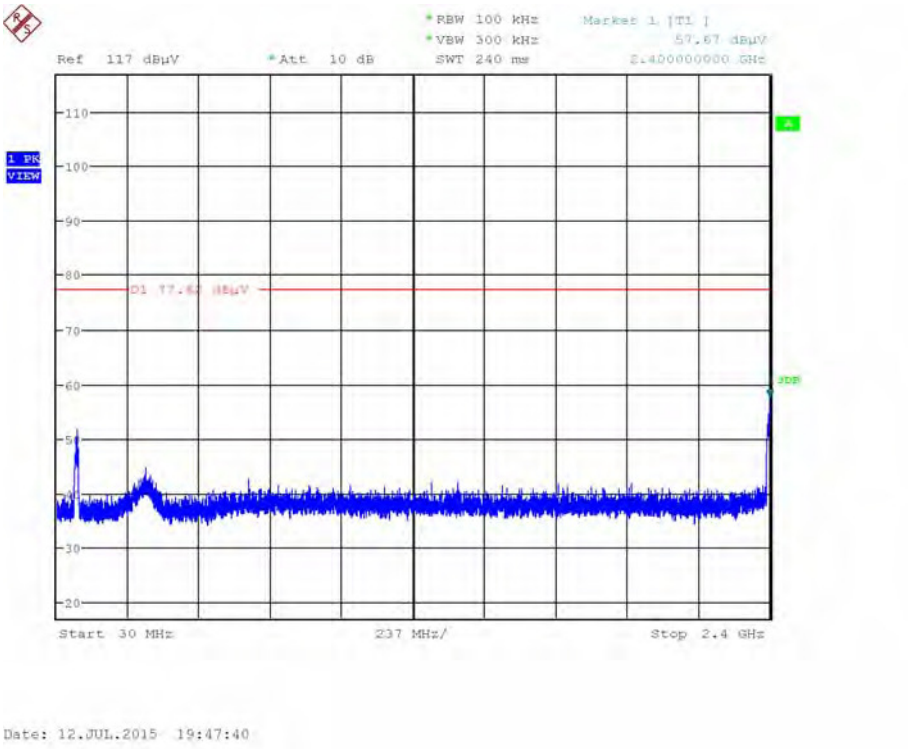
<For Radio 1 Beamforming Mode>: 3TX, 2S

Plot on Configuration IEEE 802. MCS0/Nss2 VHT20 / Reference Level



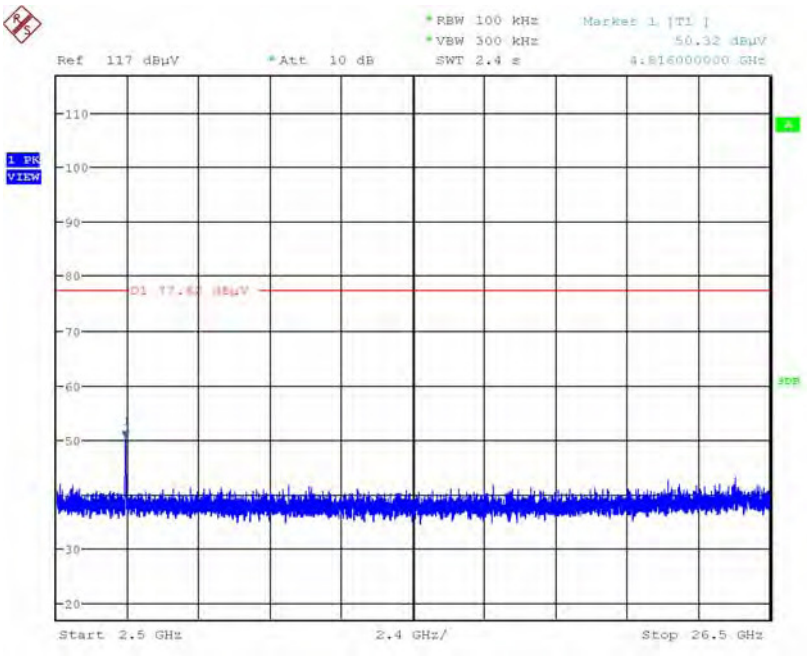

Date: 12.JUL.2015 19:45:52

Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



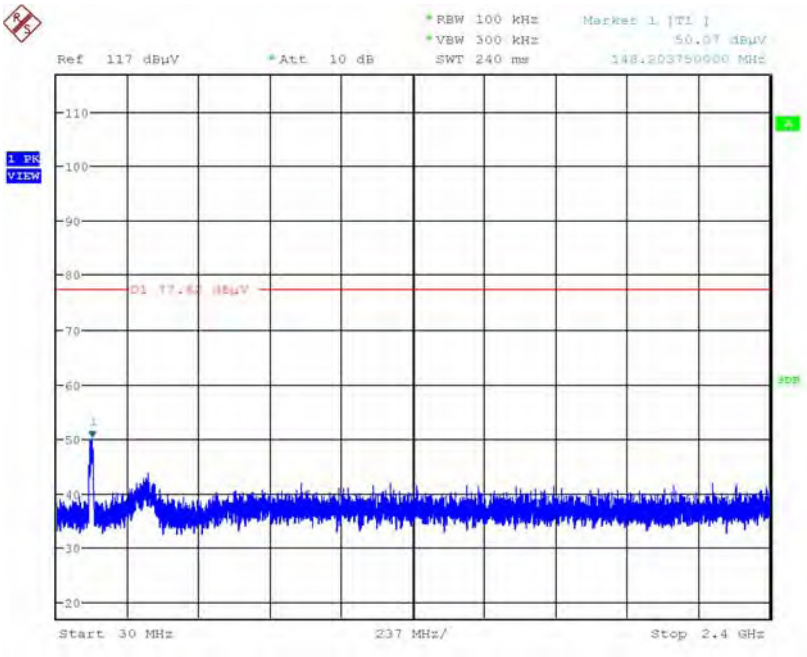

Date: 12.JUL.2015 19:47:40

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



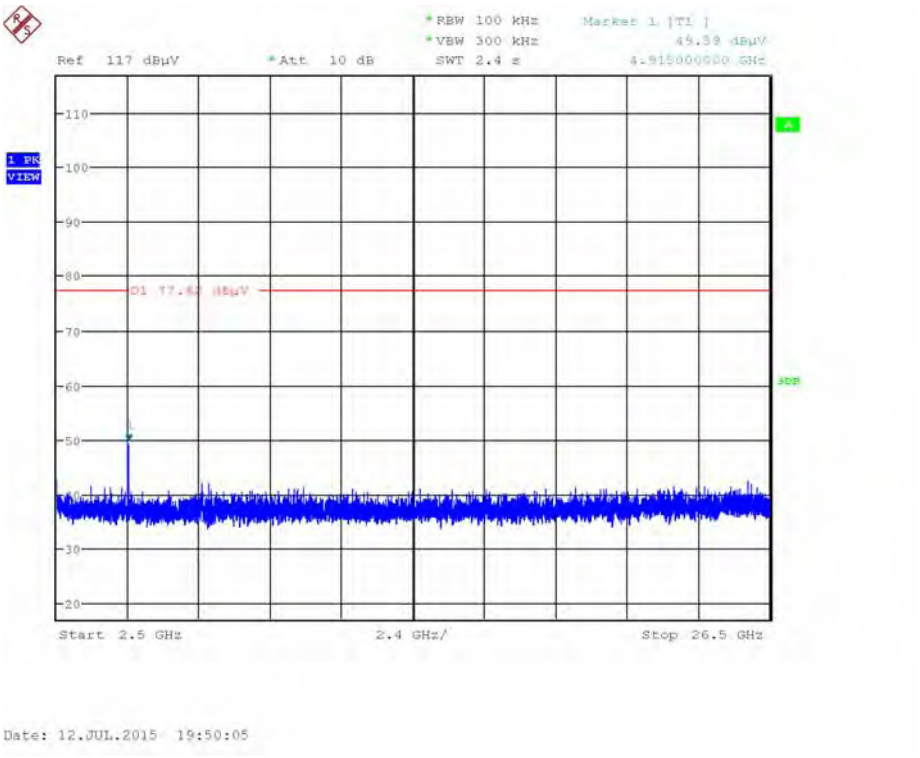

Date: 12.JUL.2015 19:48:11

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)

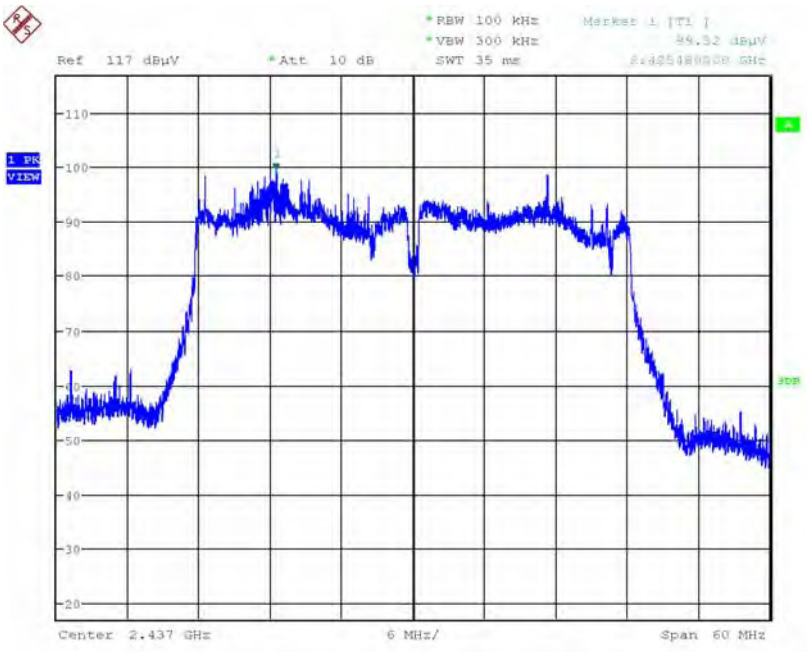



Date: 12.JUL.2015 19:49:35

## Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)

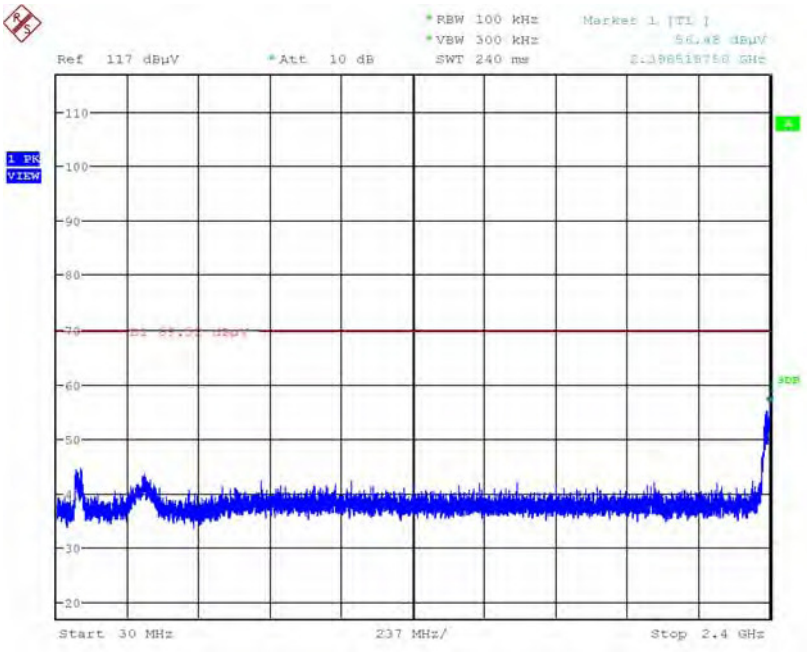


### Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / Reference Level



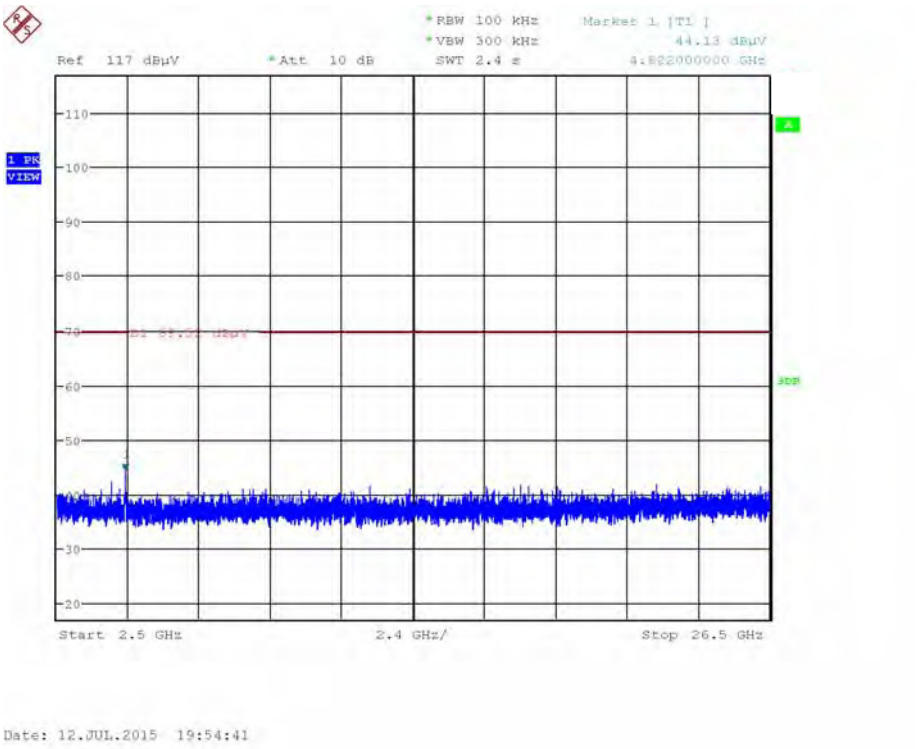

Date: 12.JUL.2015 19:52:43

### Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)

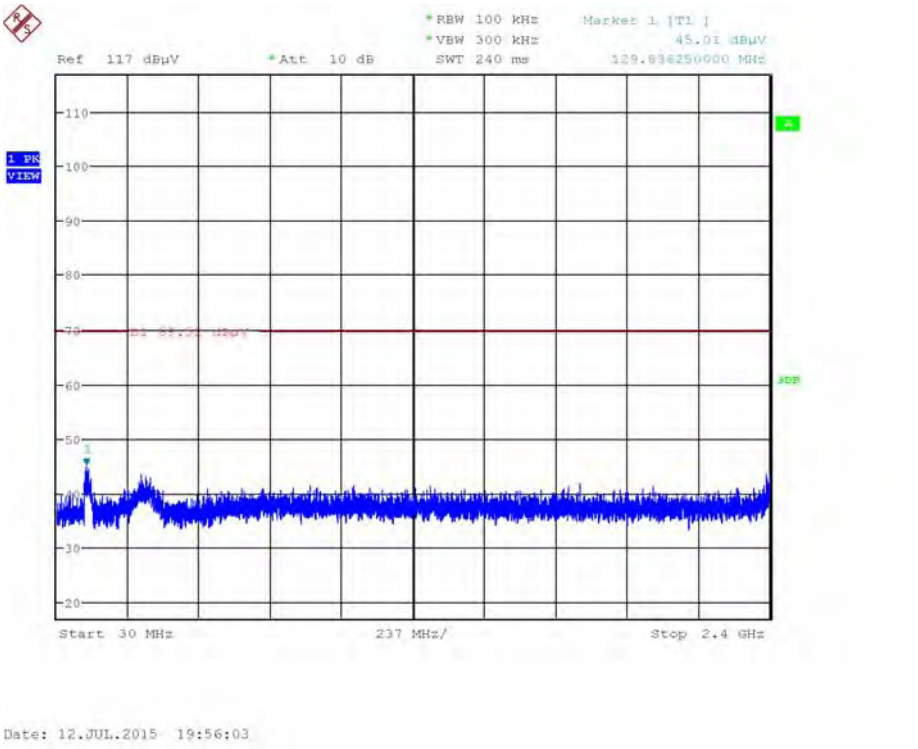



Date: 12.JUL.2015 19:54:18

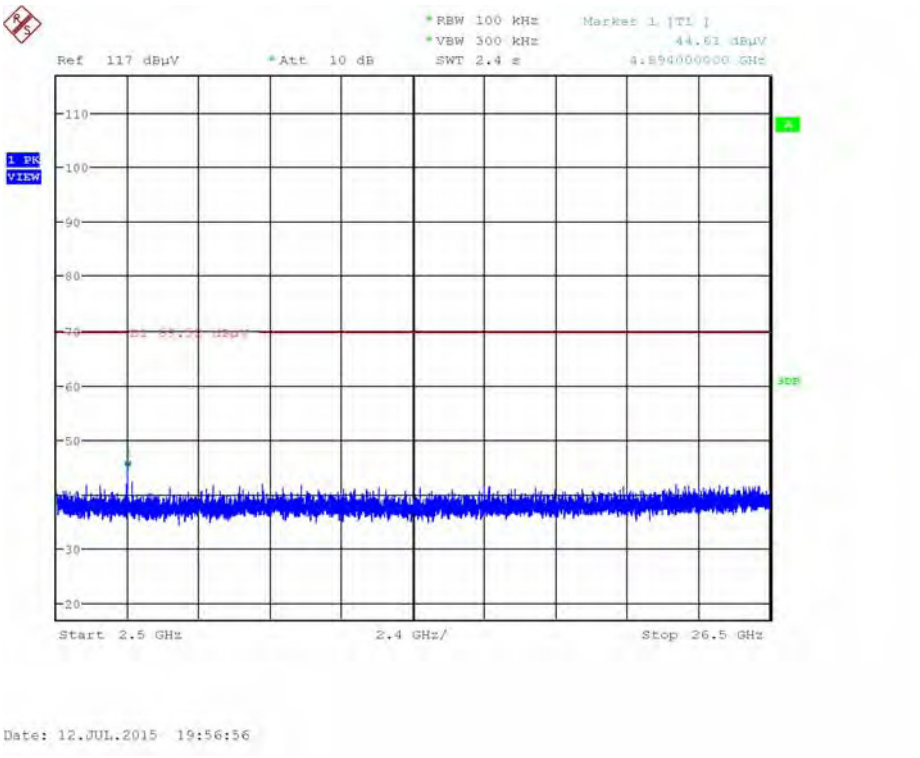
**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)**




**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)**

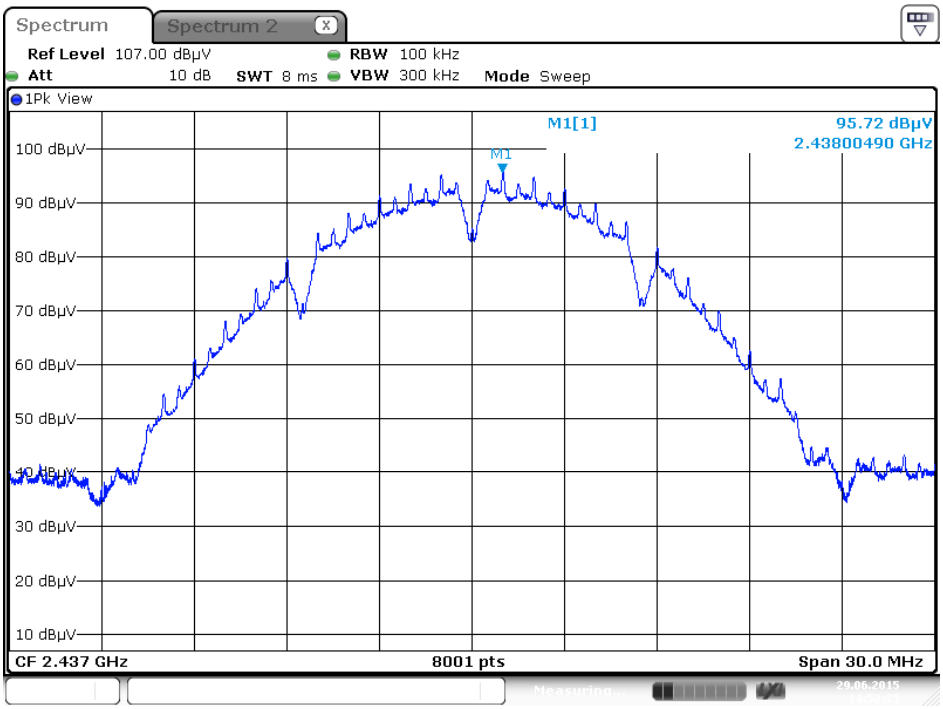


**Plot on Configuration IEEE 802.11ac MCS0/Nss2 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)**



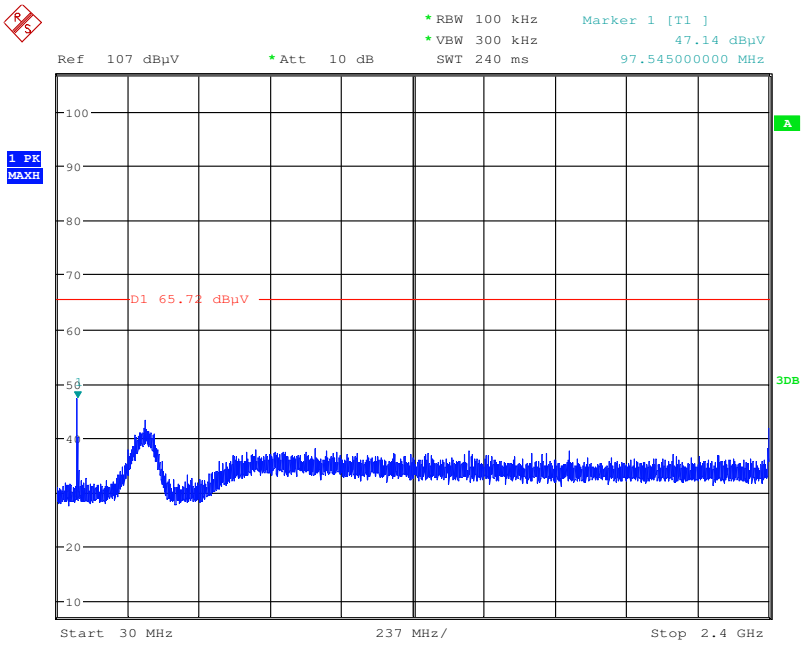
<For Radio 3>

## Plot on Configuration IEEE 802.11b / Reference Level



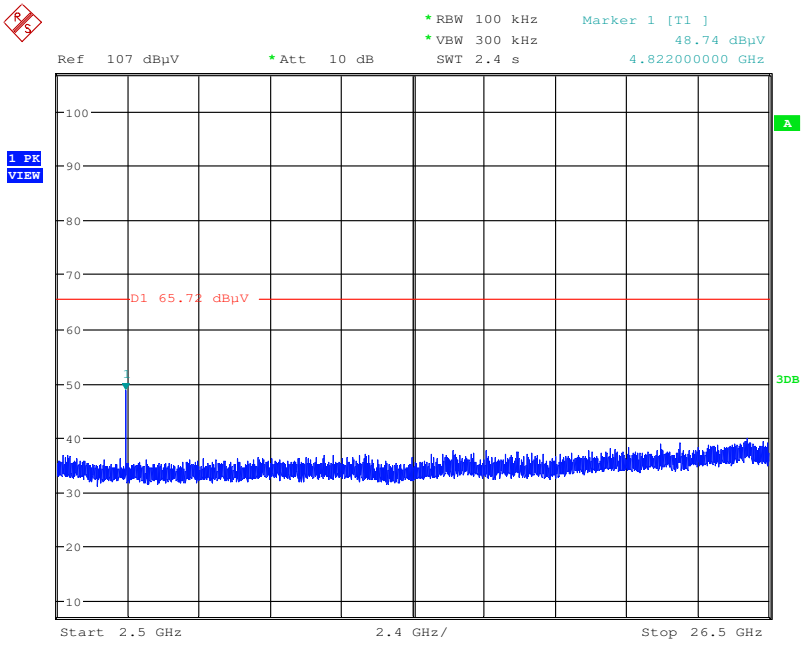

Date: 29.JUN.2015 14:52:25

## Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



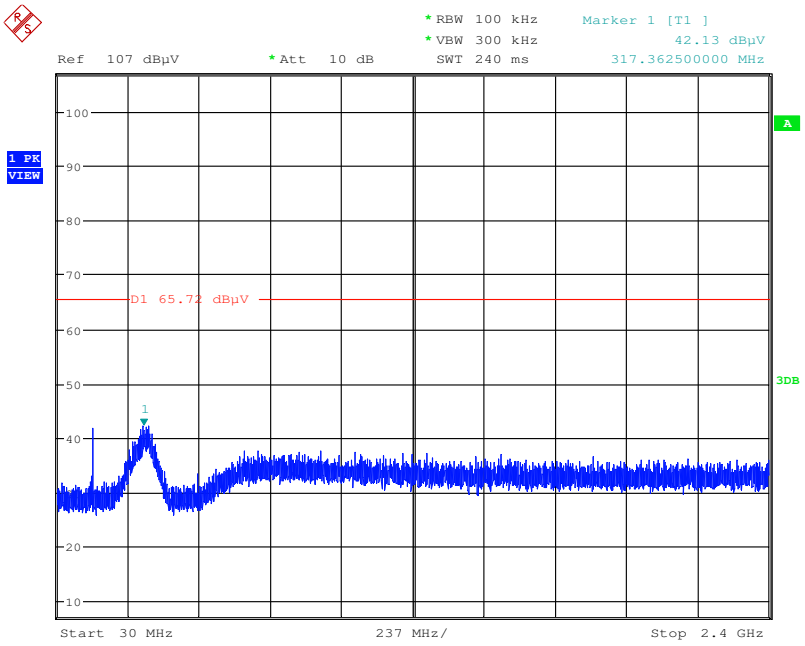

Date: 29.JUN.2015 17:17:41

## Plot on Configuration IEEE 802.11b / CH 1 / 2500MHz~26500MHz (down 30dBc)



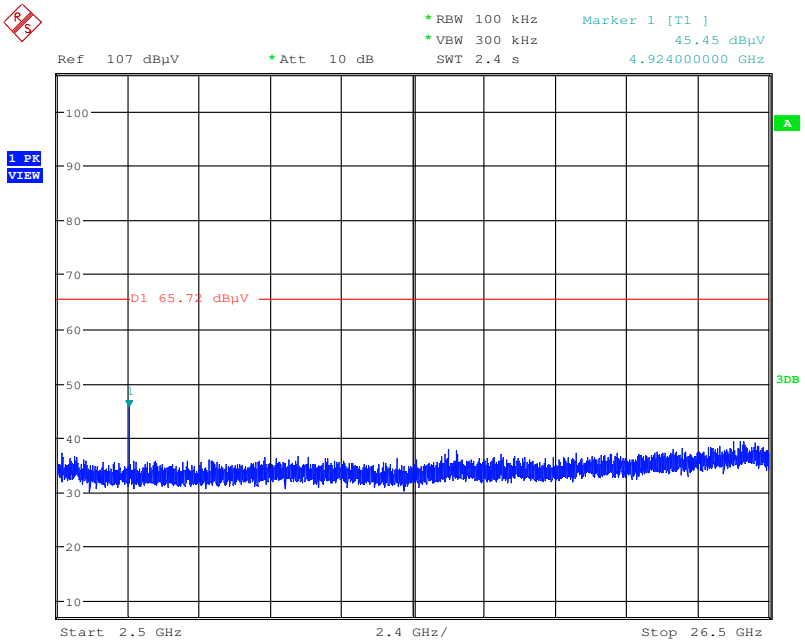

Date: 29.JUN.2015 16:35:17

## Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



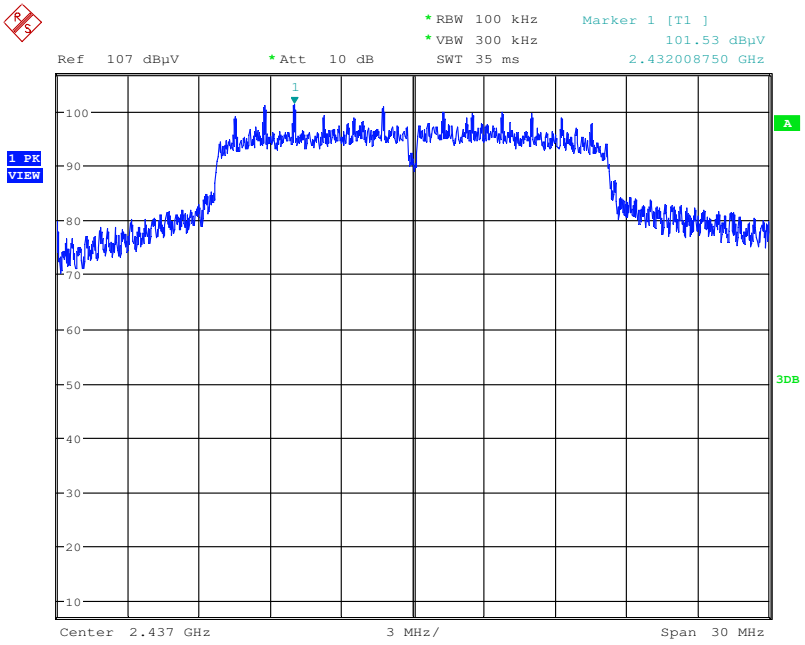

Date: 29.JUN.2015 16:38:28

## Plot on Configuration IEEE 802.11b / CH 11 / 2500MHz~26500MHz (down 30dBc)



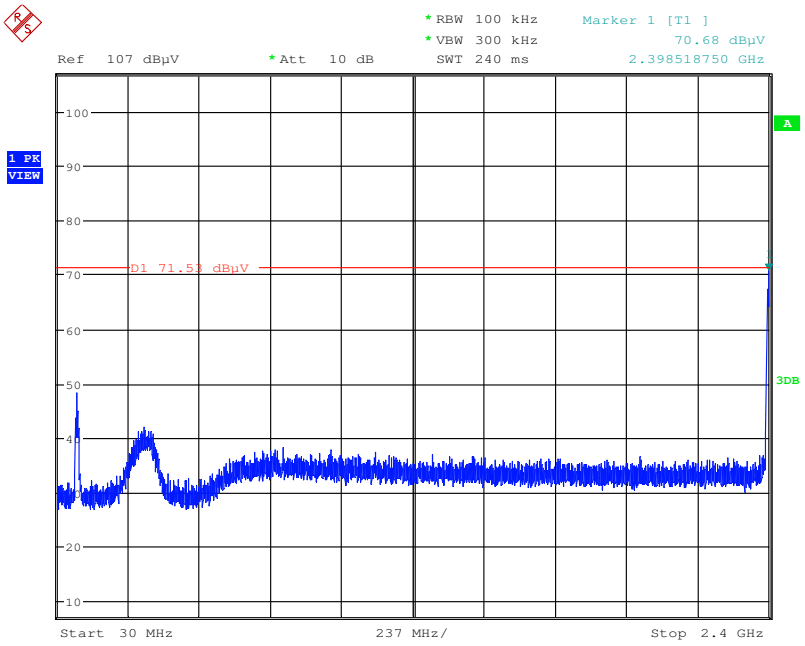

Date: 29.JUN.2015 16:38:02

## Plot on Configuration IEEE 802.11g / Reference Level



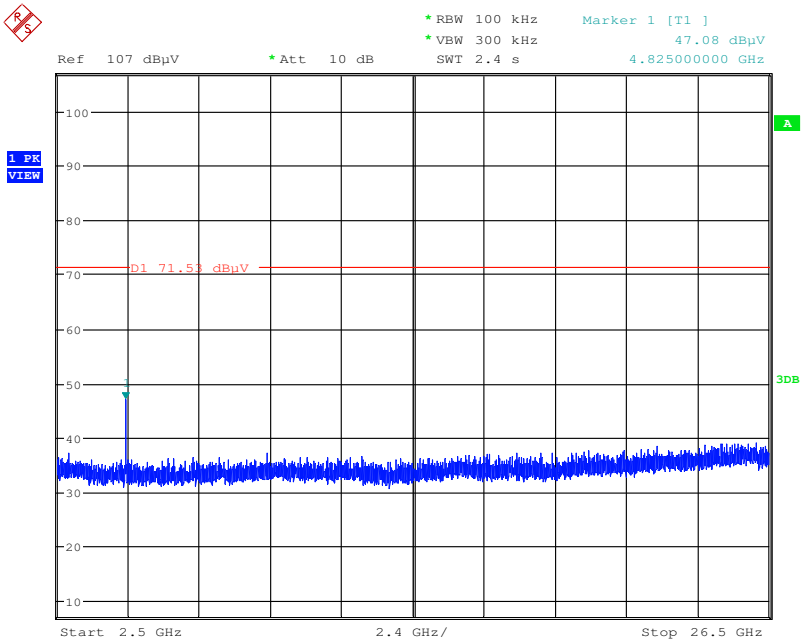

Date: 29.JUN.2015 16:50:28

## Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



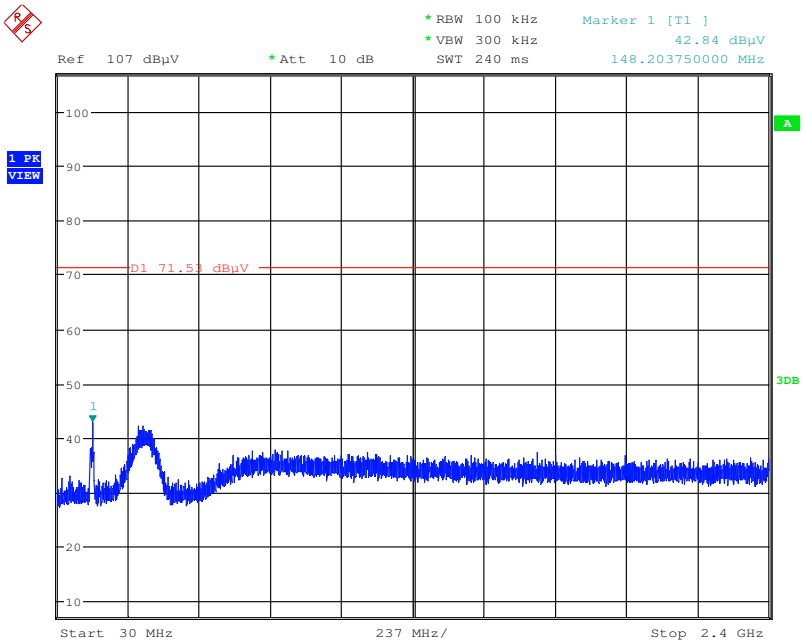

Date: 29.JUN.2015 16:53:50

## Plot on Configuration IEEE 802.11g / CH 1 / 2500MHz~26500MHz (down 30dBc)



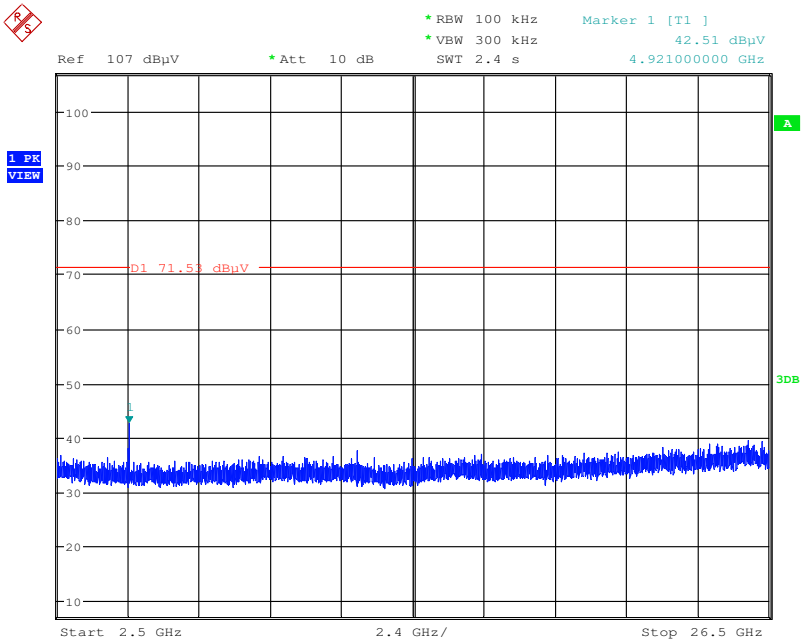

Date: 29.JUN.2015 16:54:56

## Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



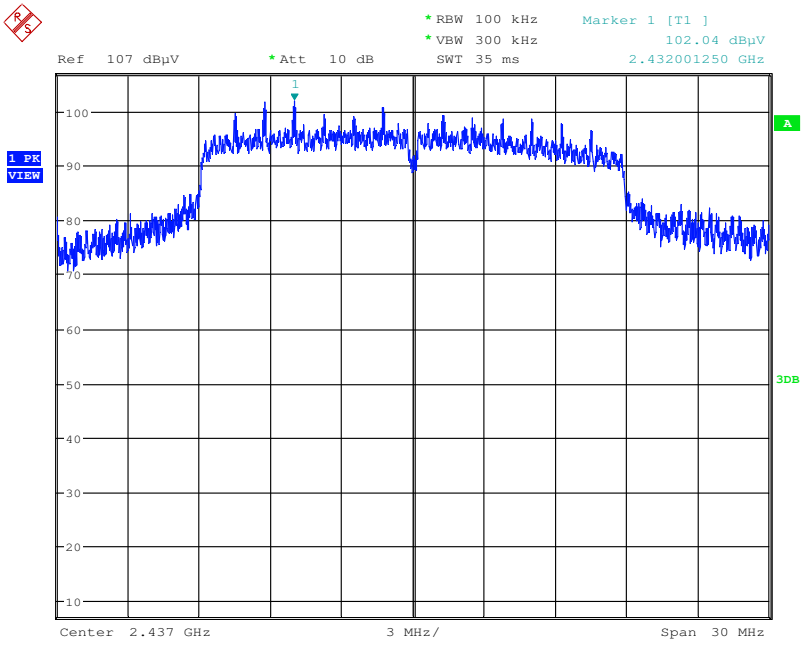

Date: 29.JUN.2015 17:00:34

## Plot on Configuration IEEE 802.11g / CH 11 / 2500MHz~26500MHz (down 30dBc)



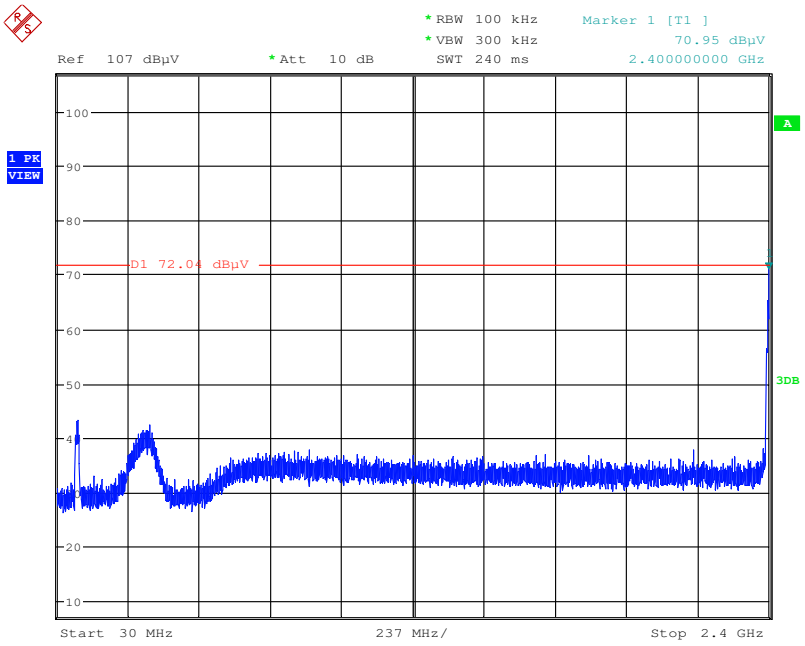

Date: 29.JUN.2015 16:59:55

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



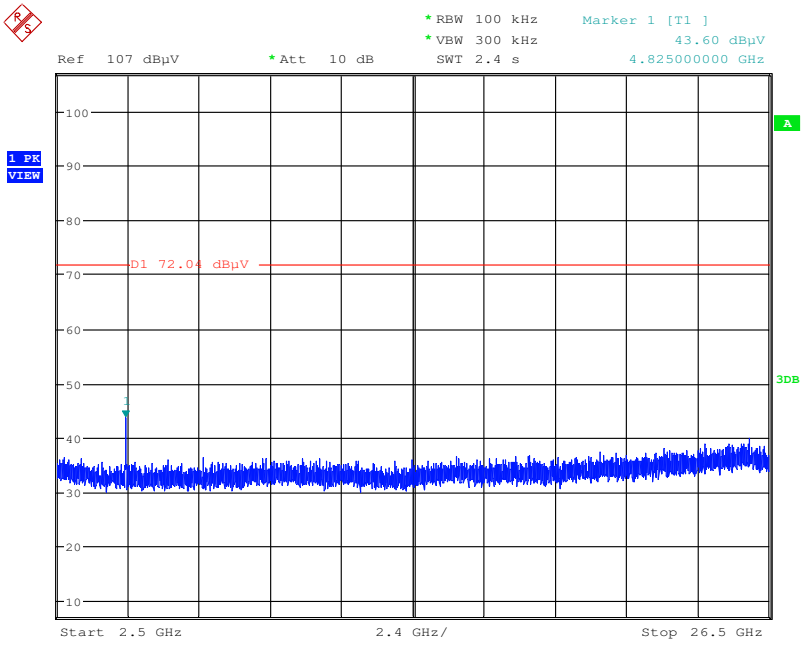

Date: 29.JUN.2015 17:11:21

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



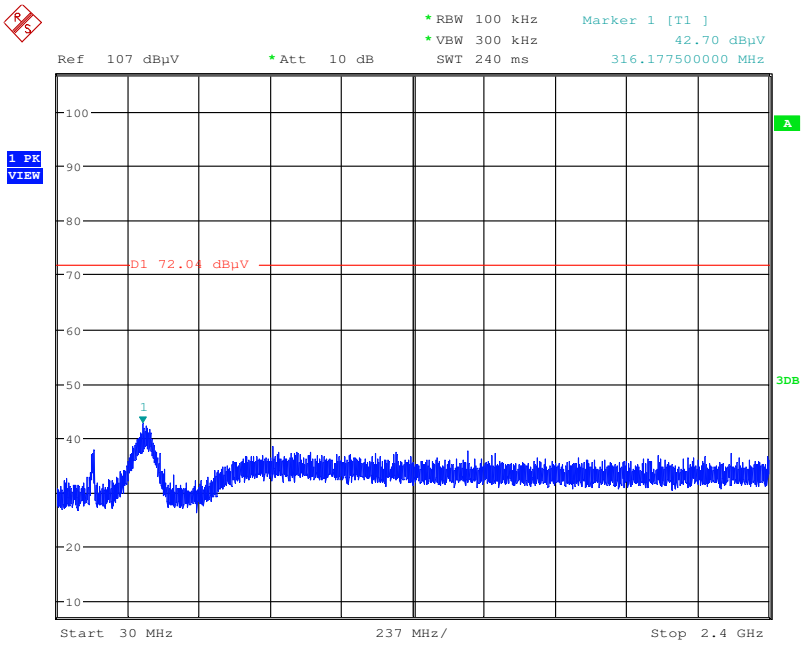

Date: 29.JUN.2015 17:12:53

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2500MHz~26500MHz (down 30dBc)



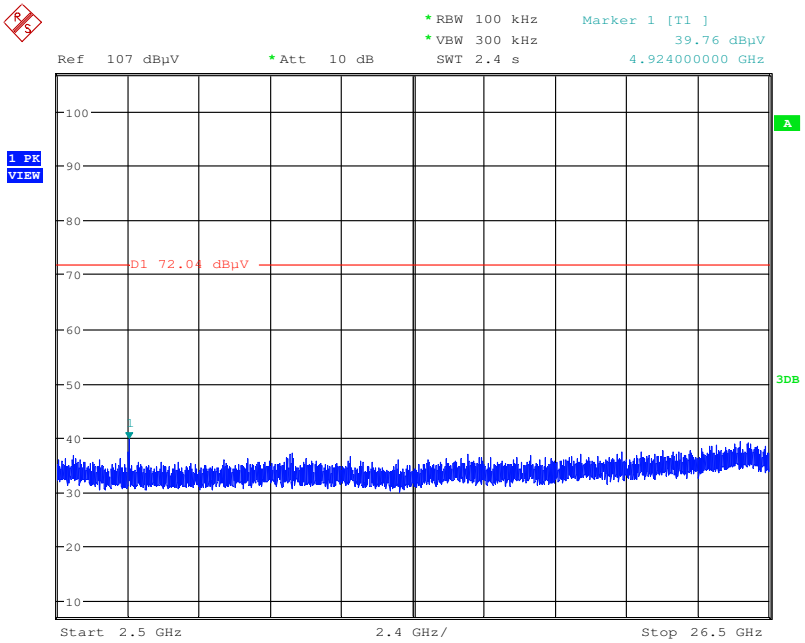

Date: 29.JUN.2015 17:15:06

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



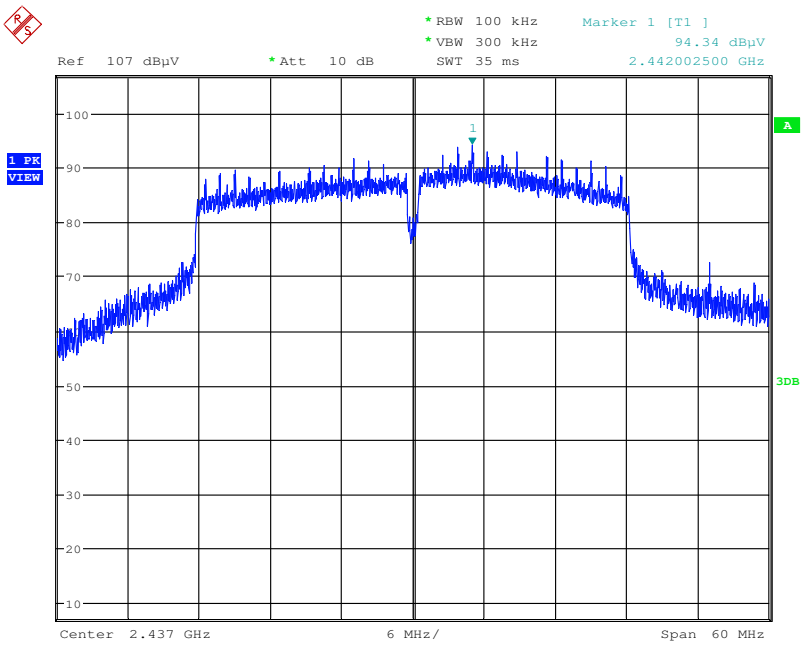

Date: 29.JUN.2015 17:16:21

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2500MHz~26500MHz (down 30dBc)



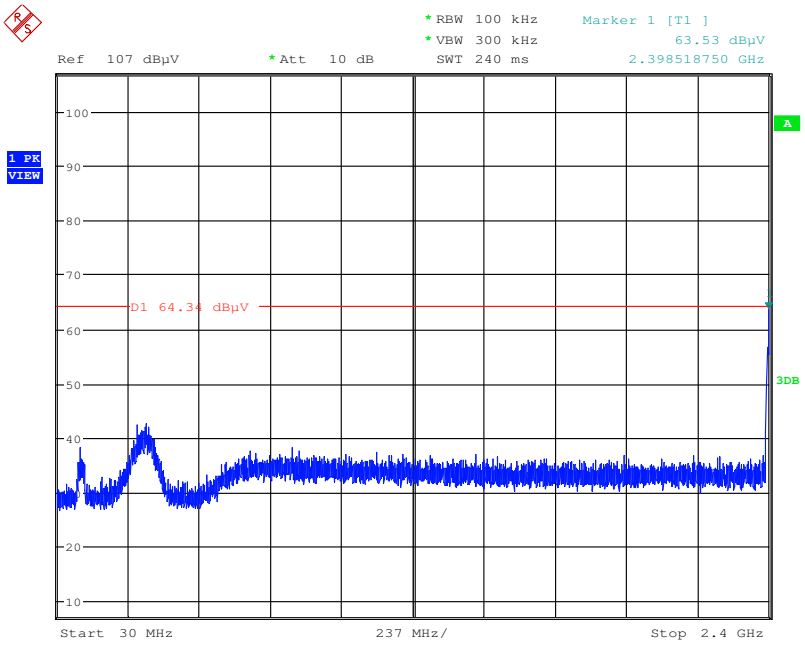

Date: 29.JUN.2015 17:15:57

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



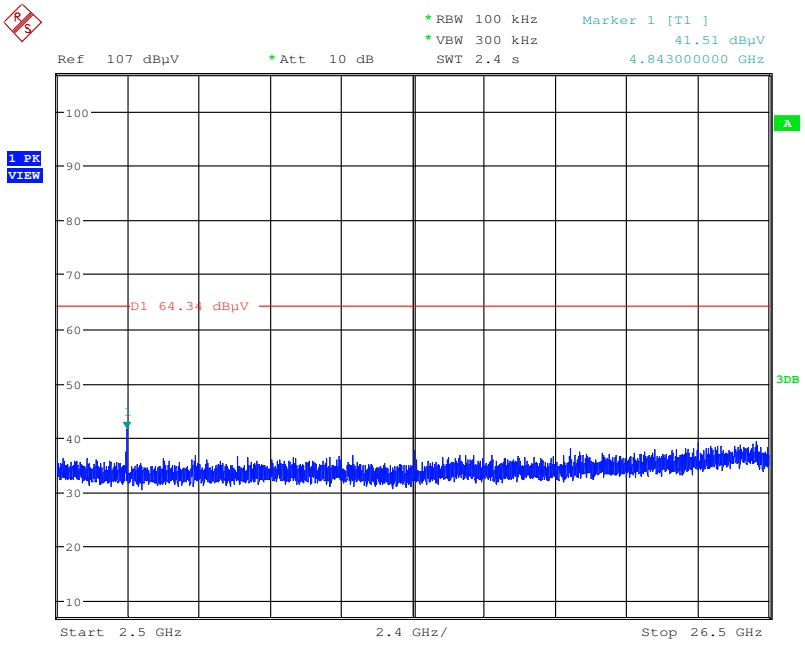

Date: 29.JUN.2015 17:25:14

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



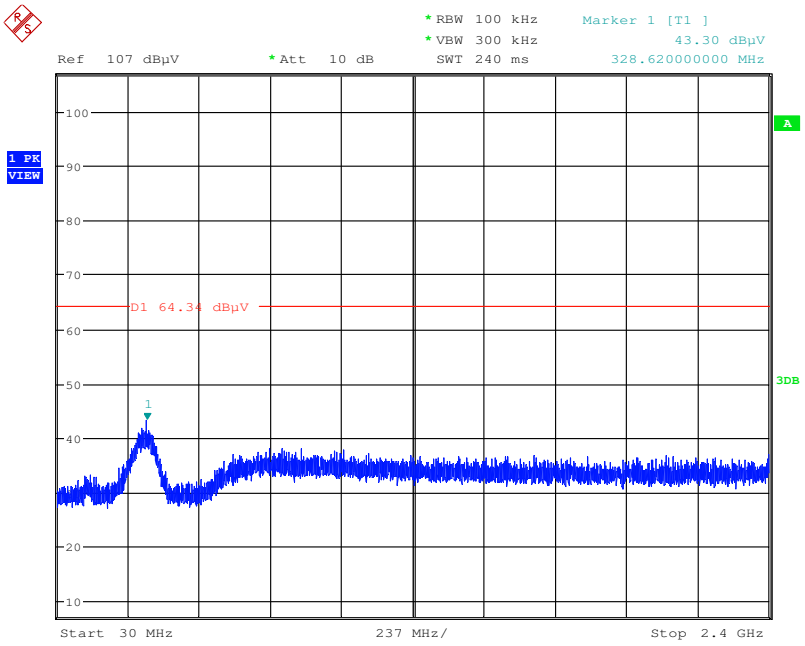

Date: 29.JUN.2015 17:26:27

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2500MHz~26500MHz (down 30dBc)



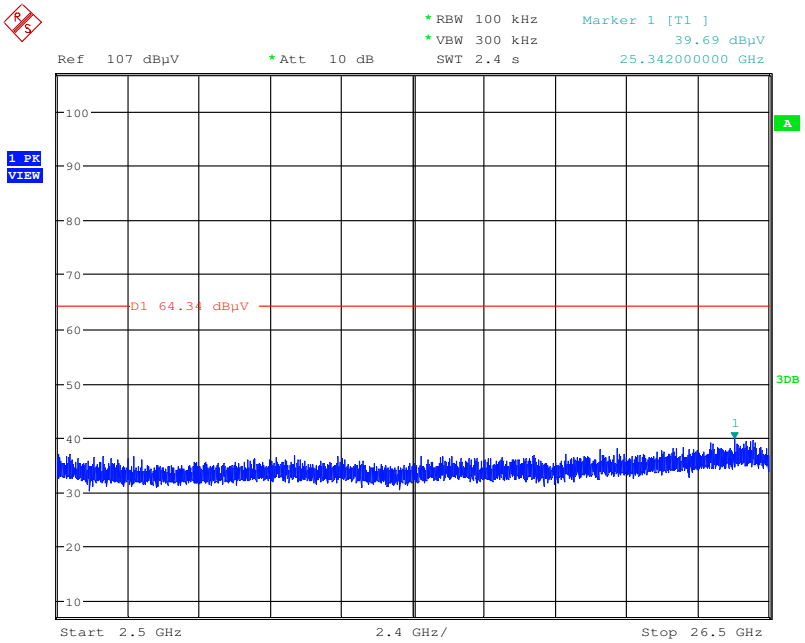

Date: 29.JUN.2015 17:28:41

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)




Date: 29.JUN.2015 17:30:04

## Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2500MHz~26500MHz (down 30dBc)




Date: 29.JUN.2015 17:29:31

## 4.7. Antenna Requirements

### 4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### 4.7.2. Antenna Connector Construction

Please refer to section 3.2 in this test report; antenna connector complied with the requirements.

# 5. LIST OF MEASURING EQUIPMENTS

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|---|---|---|---|---|---|---|
| EMI Test Receiver | R&S | ESCS 30 | 100355 | 9kHz ~ 2.75GHz | Apr. 22, 2015 | Conduction (CO01-CB) |
| LISN | F.C.C. | FCC-LISN-50-16-2 | 04083 | 150kHz ~ 100MHz | Dec. 02, 2014 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127647 | 9kHz ~ 30MHz | Dec. 02, 2014 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | 01 | 150kHz ~ 30MHz | Dec. 03, 2014 | Conduction (CO01-CB) |
| Software | Audix | E3 | 5.410e | - | N.C.R. | Conduction (CO01-CB) |
| BILOG ANTENNA | Schaffner | CBL6112D | 22021 | 20MHz ~ 2GHz | May 06, 2015 | Radiation (03CH01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Mar. 12, 2015 | Radiation (03CH01-CB) |
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Oct. 28, 2014 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Aug. 22, 2014 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8447D | 2944A10991 | 0.1MHz ~ 1.3GHz | Feb. 24, 2015 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 12, 2015 | Radiation (03CH01-CB) |
| Pre-Amplifier | WM | TF-130N-R1 | 923365 | 26GHz ~ 40GHz | Nov. 25, 2014 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Nov. 06, 2014 | Radiation (03CH01-CB) |
| EMI Receiver | Agilent | N9038A | MY52260123 | 9kHz ~ 8.4GHz | Jan. 21, 2015 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | Low Cable-1 | N/A | 30 MHz ~ 1 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-1 | N/A | 1 GHz ~ 40 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-2 | N/A | 1 GHz ~ 40 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 12, 2014 | Conducted (TH01-CB) |
| RF Power Divider | Woken | 2 Way | TH01-DV-02 | 1GHz ~ 6GHz | Jan. 10, 2015 | Conducted (TH01-CB) |
| RF Power Divider | Woken | 4 Way | TH01-DV-01 | 1GHz ~ 6GHz | Jan. 10, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-7 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-8 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-9 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-6 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 03, 2014 | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.

N.C.R. means Non-Calibration required.

# 6. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty | Remark |
|---|---|---|
| Conducted Emission (150kHz ~ 30MHz) | 2.4 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |