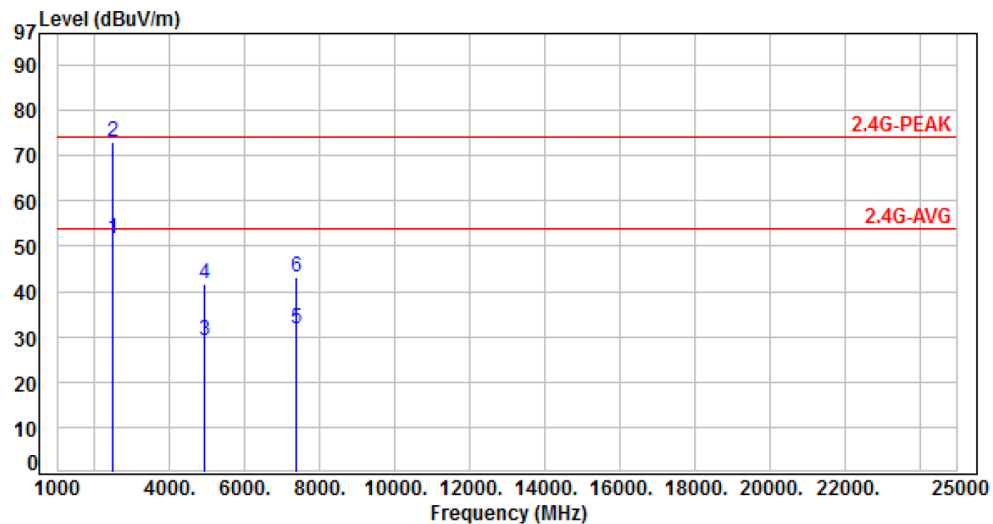




|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 3, CH11  | Temperature | : 21 °C      |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %       |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2483.50         | -15.65      | 67.20          | 51.55        | 54.00        | -2.45       | Average  | 100         | 275           | P   |
| 2   | 2483.50         | -15.65      | 88.60          | 72.95        | 74.00        | -1.05       | Peak     | 100         | 275           | P   |
| 3   | 4924.00         | -8.49       | 37.54          | 29.05        | 54.00        | -24.95      | Average  | 177         | 82            | P   |
| 4   | 4924.00         | -8.49       | 50.19          | 41.70        | 74.00        | -32.30      | Peak     | 177         | 82            | P   |
| 5   | 7386.00         | -4.48       | 36.22          | 31.74        | 54.00        | -22.26      | Average  | 104         | 188           | P   |
| 6   | 7386.00         | -4.48       | 47.50          | 43.02        | 74.00        | -30.98      | Peak     | 104         | 188           | P   |

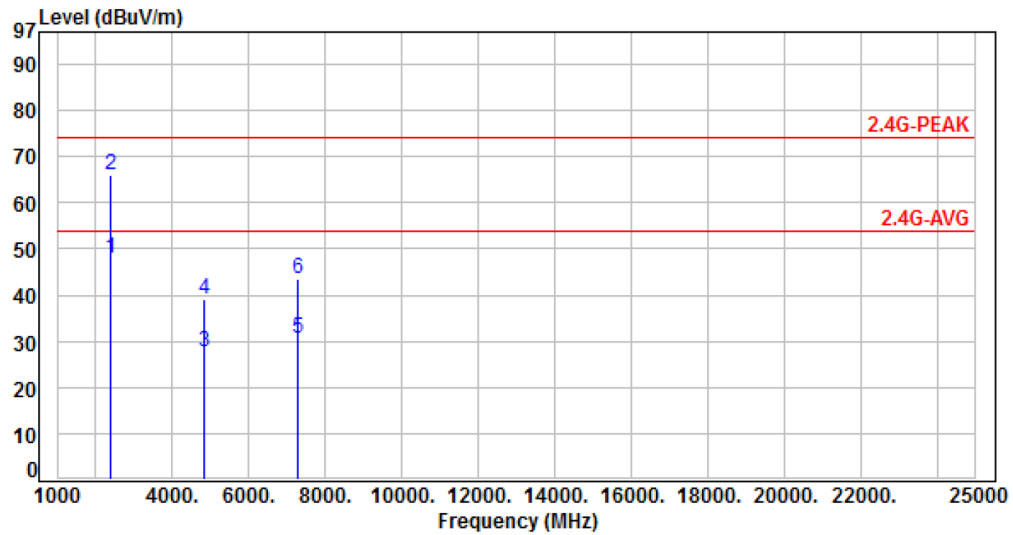
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 4, CH03  | Temperature | : 21 °C    |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %     |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2385.60         | -15.97      | 63.90          | 47.93        | 54.00        | -6.07       | Average  | 356         | 111           | P   |
| 2   | 2385.60         | -15.97      | 82.10          | 66.13        | 74.00        | -7.87       | Peak     | 356         | 111           | P   |
| 3   | 4844.00         | -8.74       | 36.50          | 27.76        | 54.00        | -26.24      | Average  | 107         | 133           | P   |
| 4   | 4844.00         | -8.74       | 47.92          | 39.18        | 74.00        | -34.82      | Peak     | 107         | 133           | P   |
| 5   | 7266.00         | -4.83       | 35.31          | 30.48        | 54.00        | -23.52      | Average  | 100         | 251           | P   |
| 6   | 7266.00         | -4.83       | 48.34          | 43.51        | 74.00        | -30.49      | Peak     | 100         | 251           | P   |

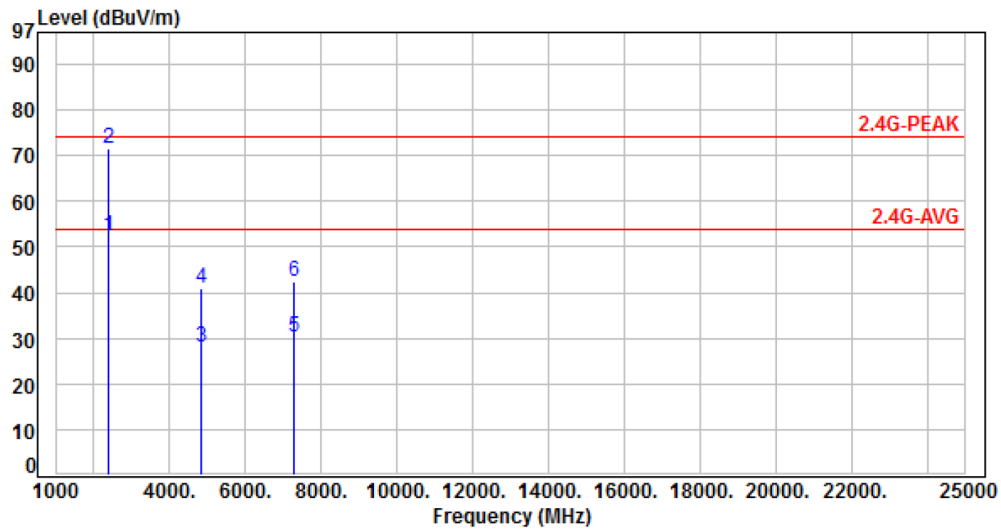
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH03  | Temperature | : 21 °C      |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %       |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2385.60         | -15.97      | 68.50          | 52.53        | 54.00        | -1.47       | Average  | 100         | 278           | P   |
| 2   | 2385.60         | -15.97      | 87.70          | 71.73        | 74.00        | -2.27       | Peak     | 100         | 278           | P   |
| 3   | 4844.00         | -8.74       | 36.88          | 28.14        | 54.00        | -25.86      | Average  | 100         | 299           | P   |
| 4   | 4844.00         | -8.74       | 49.50          | 40.76        | 74.00        | -33.24      | Peak     | 100         | 299           | P   |
| 5   | 7266.00         | -4.83       | 35.21          | 30.38        | 54.00        | -23.62      | Average  | 104         | 211           | P   |
| 6   | 7266.00         | -4.83       | 47.31          | 42.48        | 74.00        | -31.52      | Peak     | 104         | 211           | P   |

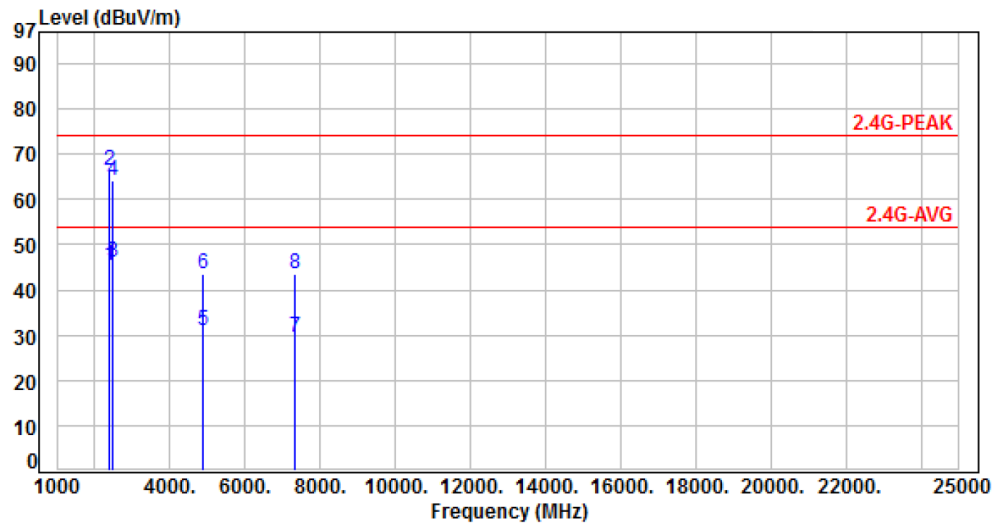
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 4, CH06  | Temperature | : 21 °C    |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %     |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -15.96      | 61.51          | 45.55        | 54.00        | -8.45       | Average  | 375         | 150           | P   |
| 2   | 2390.00         | -15.96      | 82.41          | 66.45        | 74.00        | -7.55       | Peak     | 375         | 150           | P   |
| 3   | 2483.50         | -15.65      | 61.80          | 46.15        | 54.00        | -7.85       | Average  | 375         | 150           | P   |
| 4   | 2483.50         | -15.65      | 79.90          | 64.25        | 74.00        | -9.75       | Peak     | 375         | 150           | P   |
| 5   | 4874.00         | -8.65       | 39.60          | 30.95        | 54.00        | -23.05      | Average  | 100         | 260           | P   |
| 6   | 4874.00         | -8.65       | 52.20          | 43.55        | 74.00        | -30.45      | Peak     | 100         | 260           | P   |
| 7   | 7311.00         | -4.69       | 34.14          | 29.45        | 54.00        | -24.55      | Average  | 110         | 158           | P   |
| 8   | 7311.00         | -4.69       | 48.29          | 43.60        | 74.00        | -30.40      | Peak     | 110         | 158           | P   |

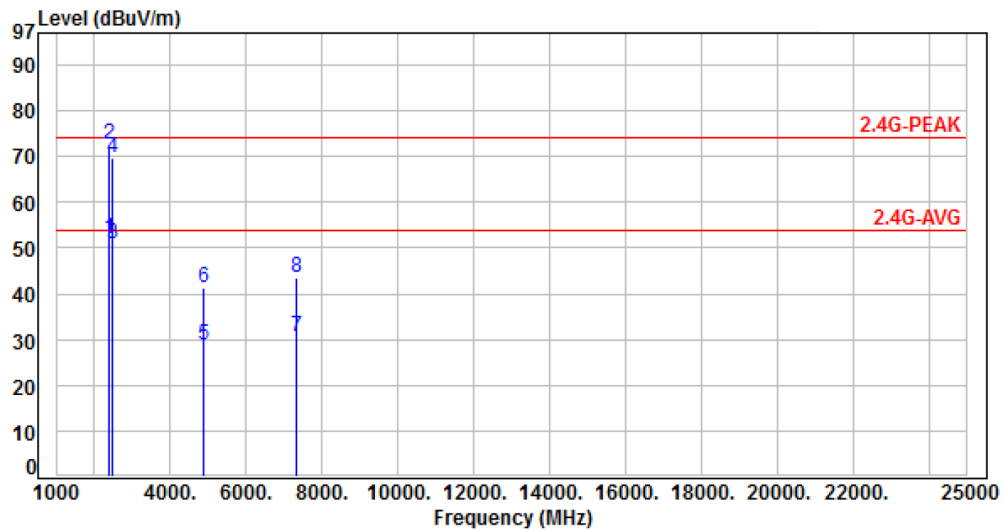
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120V       | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH06  | Temperature | : 21 °C      |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %       |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2390.00         | -15.96      | 67.81          | 51.85        | 54.00        | -2.15       | Average  | 100         | 267           | P   |
| 2   | 2390.00         | -15.96      | 88.61          | 72.65        | 74.00        | -1.35       | Peak     | 100         | 267           | P   |
| 3   | 2483.50         | -15.65      | 66.70          | 51.05        | 54.00        | -2.95       | Average  | 100         | 267           | P   |
| 4   | 2483.50         | -15.65      | 85.20          | 69.55        | 74.00        | -4.45       | Peak     | 100         | 267           | P   |
| 5   | 4874.00         | -8.65       | 37.56          | 28.91        | 54.00        | -25.09      | Average  | 105         | 88            | P   |
| 6   | 4874.00         | -8.65       | 50.10          | 41.45        | 74.00        | -32.55      | Peak     | 105         | 88            | P   |
| 7   | 7311.00         | -4.69       | 35.21          | 30.52        | 54.00        | -23.48      | Average  | 100         | 274           | P   |
| 8   | 7311.00         | -4.69       | 48.19          | 43.50        | 74.00        | -30.50      | Peak     | 100         | 274           | P   |

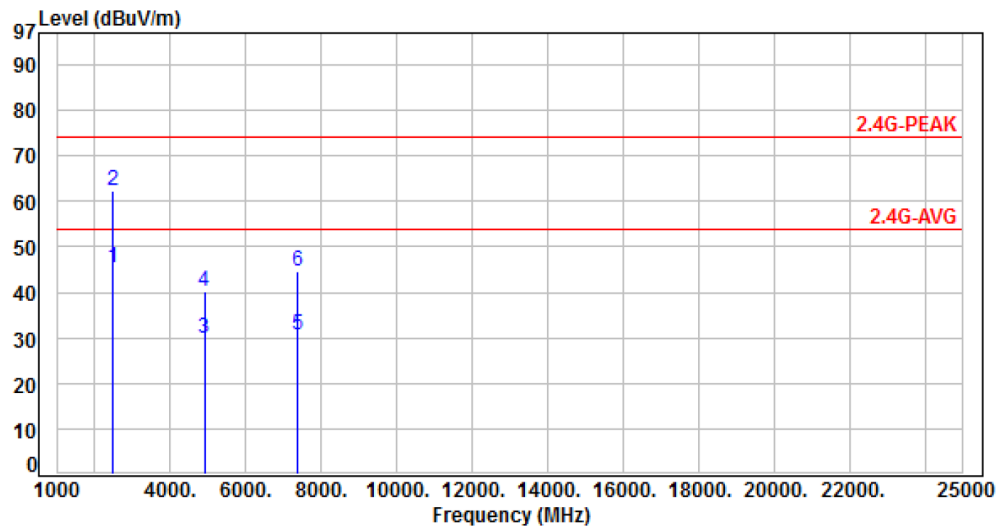
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |            |
|-----------|-----------------|-------------|------------|
| Power     | : AC 120V       | Pol/Phase   | : VERTICAL |
| Test Mode | : Mode 4, CH09  | Temperature | : 21 °C    |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %     |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2483.50         | -15.65      | 61.20          | 45.55        | 54.00        | -8.45       | Average  | 400         | 300           | P   |
| 2   | 2483.50         | -15.65      | 78.10          | 62.45        | 74.00        | -11.55      | Peak     | 400         | 300           | P   |
| 3   | 4904.00         | -8.56       | 38.53          | 29.97        | 54.00        | -24.03      | Average  | 133         | 125           | P   |
| 4   | 4904.00         | -8.56       | 48.61          | 40.05        | 74.00        | -33.95      | Peak     | 133         | 125           | P   |
| 5   | 7356.00         | -4.57       | 35.02          | 30.45        | 54.00        | -23.55      | Average  | 106         | 311           | P   |
| 6   | 7356.00         | -4.57       | 49.22          | 44.65        | 74.00        | -29.35      | Peak     | 106         | 311           | P   |

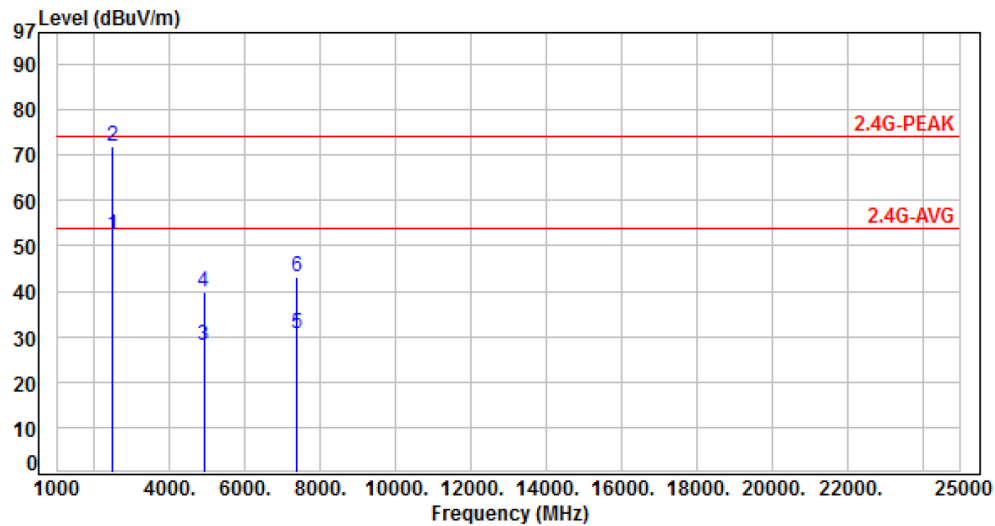
Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



|           |                 |             |              |
|-----------|-----------------|-------------|--------------|
| Power     | : AC 120        | Pol/Phase   | : HORIZONTAL |
| Test Mode | : Mode 4, CH09  | Temperature | : 21 °C      |
| Test Date | : Apr. 30, 2018 | Humidity    | : 62 %       |



| No. | Frequency (MHz) | Factor (dB) | Reading (dBuV) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | Height (cm) | Azimuth (deg) | P/F |
|-----|-----------------|-------------|----------------|--------------|--------------|-------------|----------|-------------|---------------|-----|
| 1   | 2483.50         | -15.65      | 68.00          | 52.35        | 54.00        | -1.65       | Average  | 100         | 267           | P   |
| 2   | 2483.50         | -15.65      | 87.50          | 71.85        | 74.00        | -2.15       | Peak     | 100         | 267           | P   |
| 3   | 4904.00         | -8.56       | 36.50          | 27.94        | 54.00        | -26.06      | Average  | 122         | 67            | P   |
| 4   | 4904.00         | -8.56       | 48.22          | 39.66        | 74.00        | -34.34      | Peak     | 122         | 67            | P   |
| 5   | 7356.00         | -4.57       | 35.33          | 30.76        | 54.00        | -23.24      | Average  | 100         | 153           | P   |
| 6   | 7356.00         | -4.57       | 47.63          | 43.06        | 74.00        | -30.94      | Peak     | 100         | 153           | P   |

Note: Level=Reading+Factor

Margin=Level-Limit

Factor=Antenna Factor + cable loss - Amplifier Factor



## 6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                   | MHz             | GHz             |
|---------------------|-----------------------|-----------------|-----------------|
| 0.09000 – 0.11000   | 16.42000 – 16.42300   | 399.9 – 410.0   | 4.500 – 5.250   |
| 0.49500 – 0.505**   | 16.69475 – 16.69525   | 608.0 – 614.0   | 5.350 – 5.460   |
| 2.17350 – 2.19050   | 16.80425 – 16.80475   | 960.0 – 1240.0  | 7.250 – 7.750   |
| 4.12500 – 4.12800   | 25.50000 – 25.67000   | 1300.0 – 1427.0 | 8.025 – 8.500   |
| 4.17725 – 4.17775   | 37.50000 – 38.25000   | 1435.0 – 1626.5 | 9.000 – 9.200   |
| 4.20725 – 4.20775   | 73.00000 – 74.60000   | 1645.5 – 1646.5 | 9.300 – 9.500   |
| 6.21500 – 6.21800   | 74.80000 – 75.20000   | 1660.0 – 1710.0 | 10.600 – 12.700 |
| 6.26775 – 6.26825   | 108.00000 – 121.94000 | 1718.8 – 1722.2 | 13.250 – 13.400 |
| 6.31175 – 6.31225   | 123.00000 – 138.00000 | 2200.0 – 2300.0 | 14.470 – 14.500 |
| 8.29100 – 8.29400   | 149.90000 – 150.05000 | 2310.0 – 2390.0 | 15.350 – 16.200 |
| 8.36200 – 8.36600   | 156.52475 – 156.52525 | 2483.5 – 2500.0 | 17.700 – 21.400 |
| 8.37625 – 8.38675   | 156.70000 – 156.90000 | 2655.0 – 2900.0 | 22.010 – 23.120 |
| 8.41425 – 8.41475   | 162.01250 – 167.17000 | 3260.0 – 3267.0 | 23.600 – 24.000 |
| 12.29000 – 12.29300 | 167.72000 – 173.20000 | 3332.0 – 3339.0 | 31.200 – 31.800 |
| 12.51975 – 12.52025 | 240.00000 – 285.00000 | 3345.8 – 3358.0 | 36.430 – 36.500 |
| 12.57675 – 12.57725 | 322.00000 – 335.40000 | 3600.0 – 4400.0 | Above 38.6      |
| 13.36000 – 13.41000 |                       |                 |                 |

\*\* : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



## 7. Test of Conducted Spurious Emission

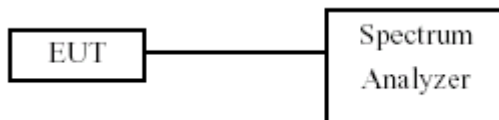
### 7.1 Test Limit

Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

### 7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low lose cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

### 7.3 Test Setup Layout



### 7.4 Test Result and Data

Test Result : PASS

Test Date : May 03, 2018

Temperature : 21°C

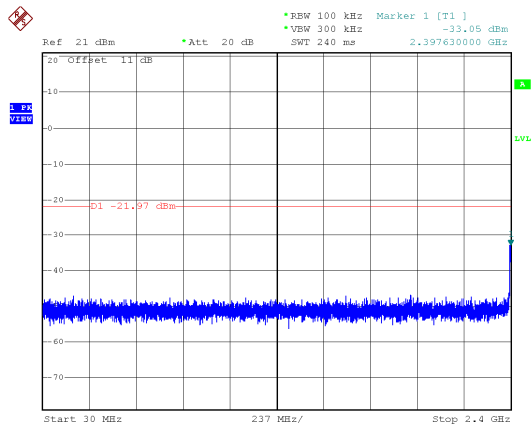
Humidity : 62%

Note: Test plots refers to the following pages.

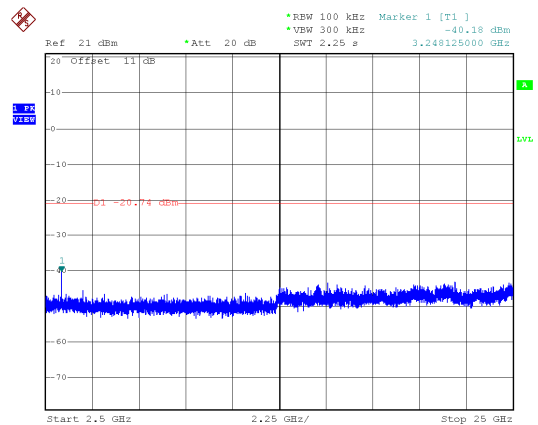
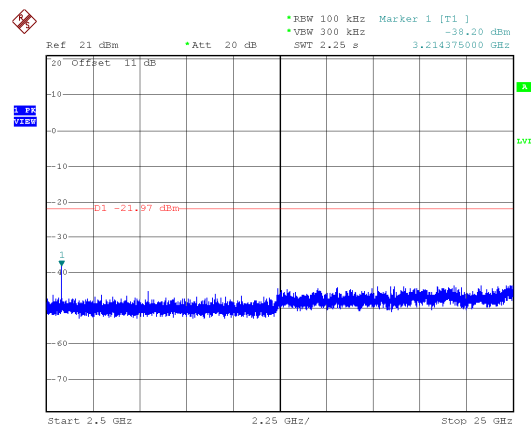
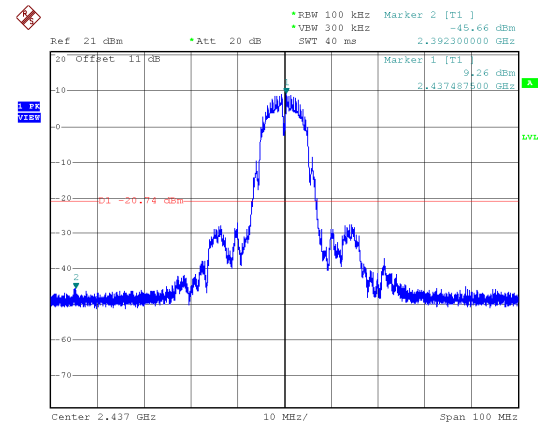
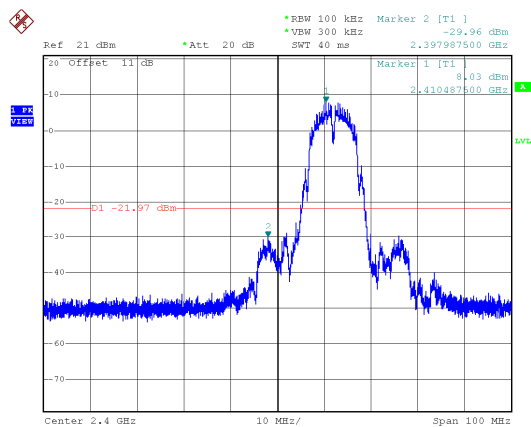
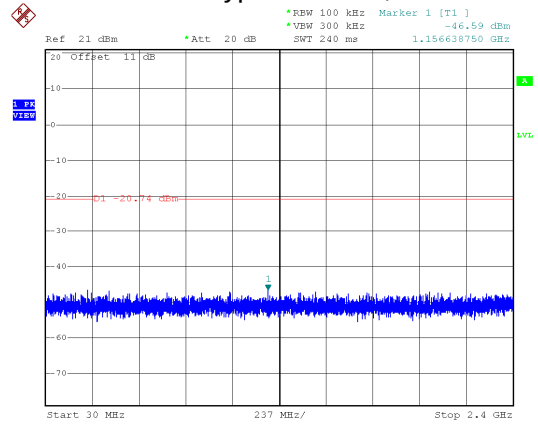


ANT A

Modulation Type: 802.11b, CH 01



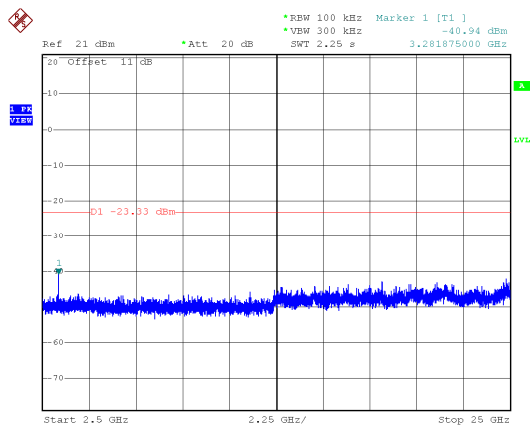
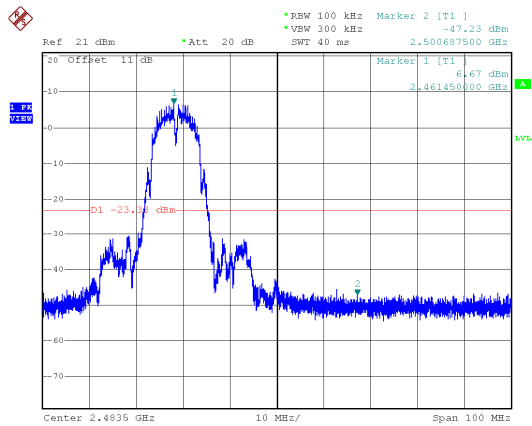
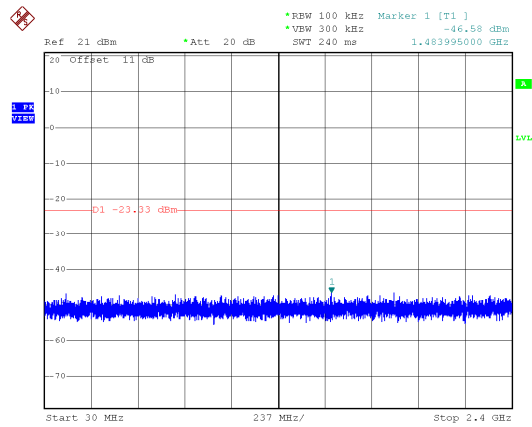
Modulation Type: 802.11b, CH 06





ANT A

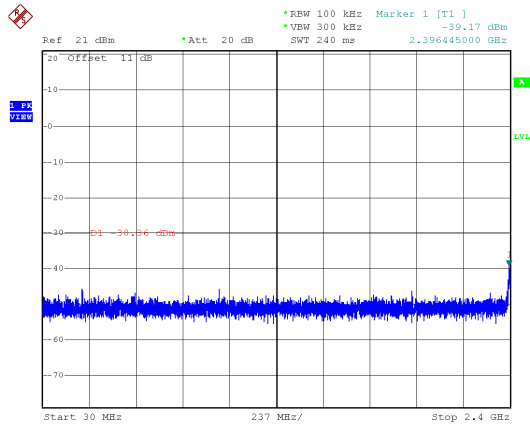
Modulation Type: 802.11b, CH 11



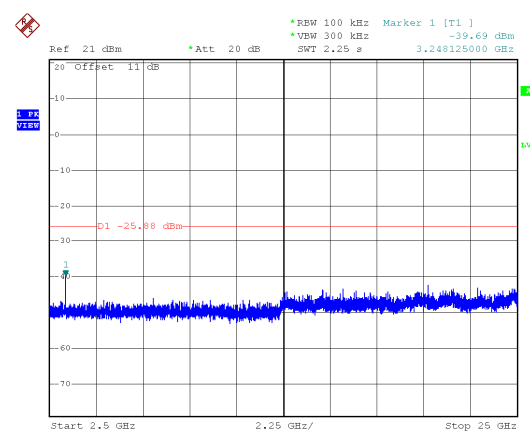
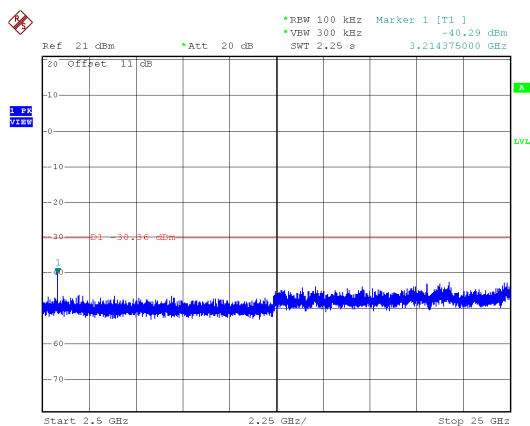
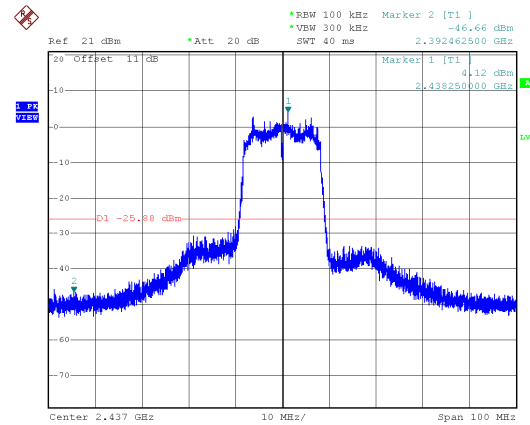
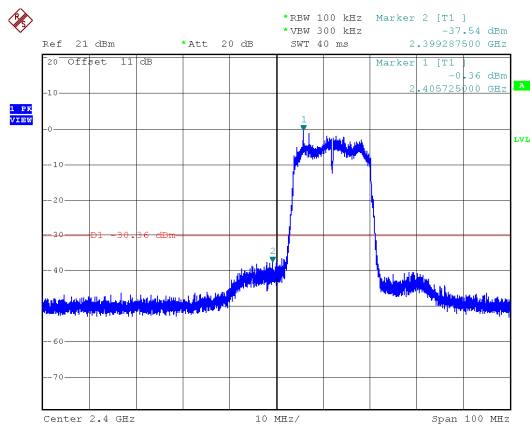
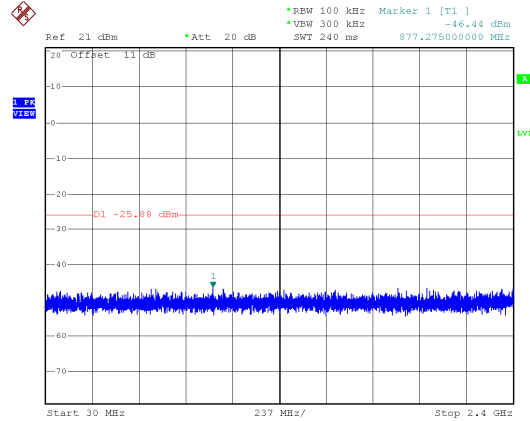


ANT A

Modulation Type: 802.11g, CH 01



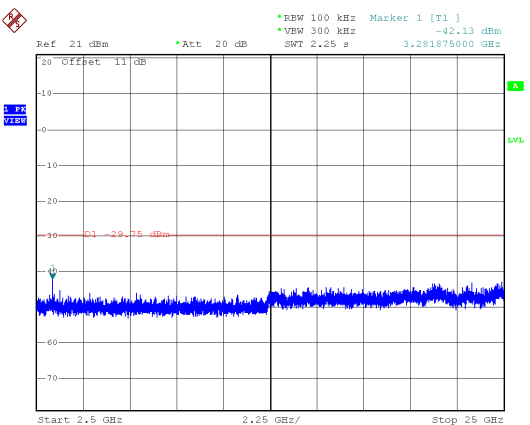
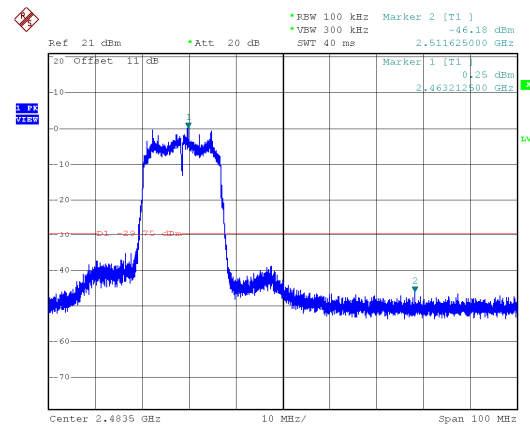
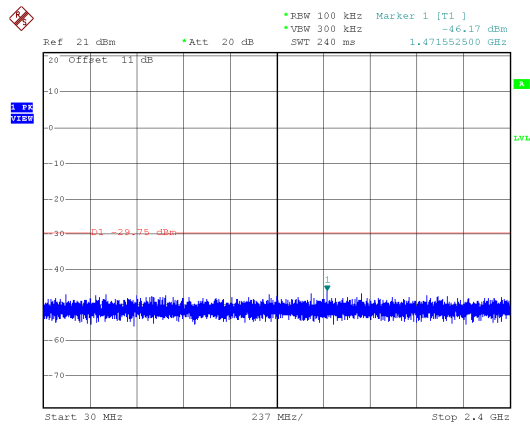
Modulation Type: 802.11g, CH 06





ANT A

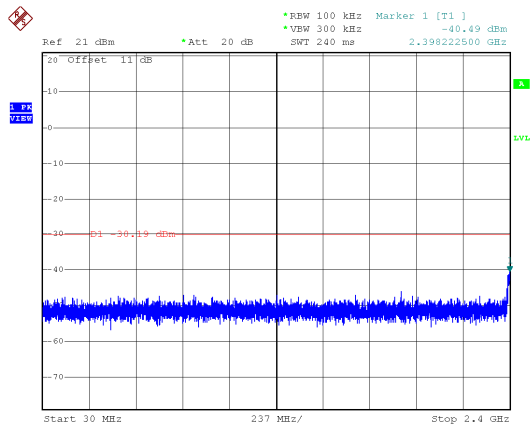
Modulation Type: 802.11g, CH 11



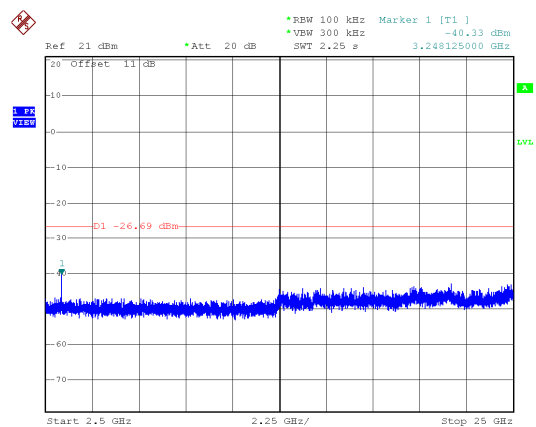
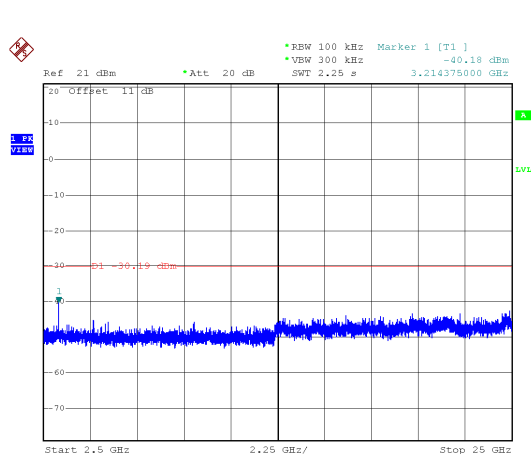
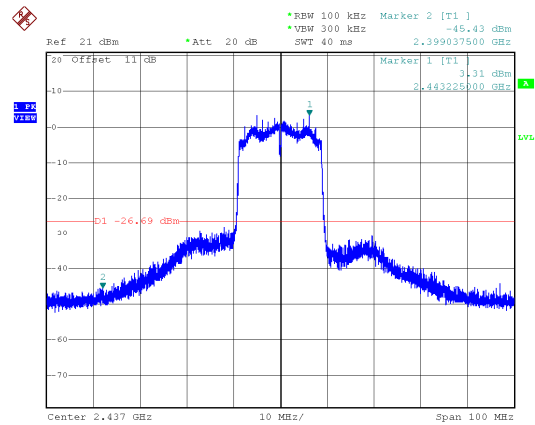
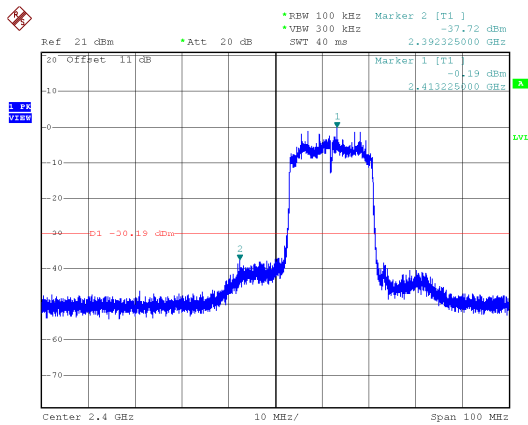
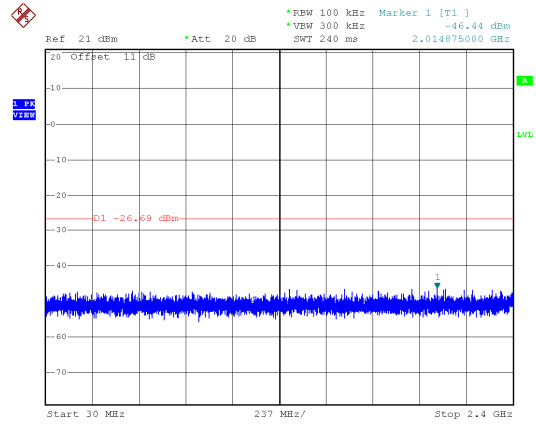


## ANT A

Modulation Type: 802.11n HT20, CH01



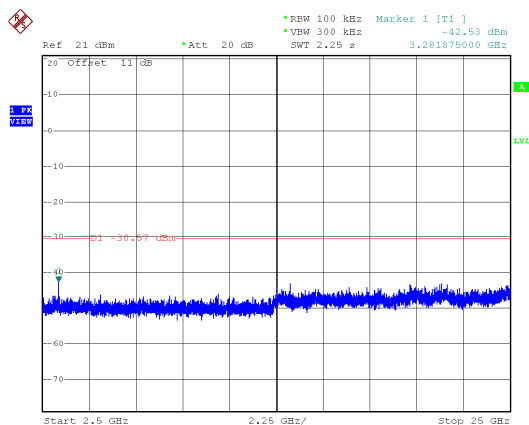
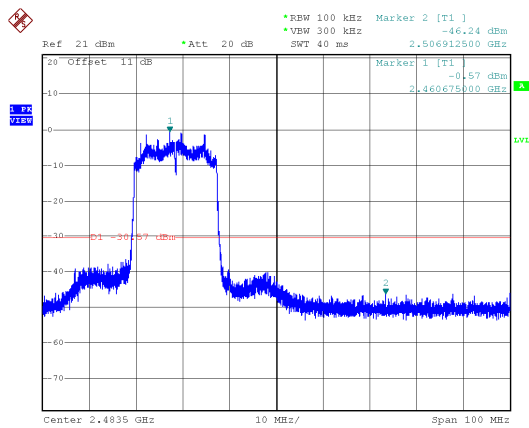
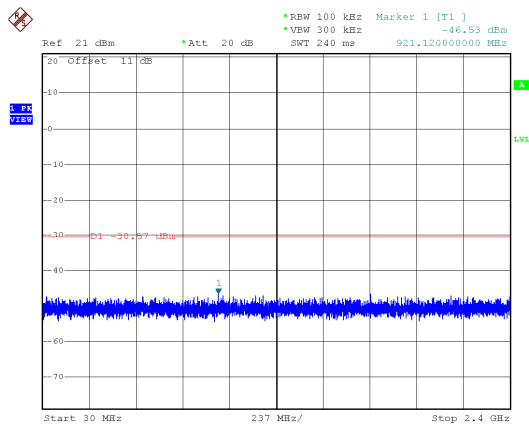
Modulation Type: 802.11n HT20, CH06





ANT A

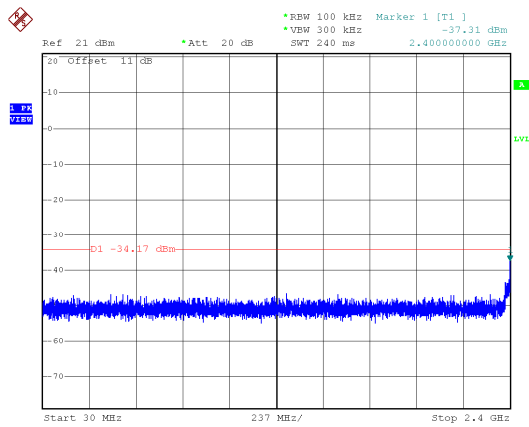
Modulation Type: 802.11n HT20, CH11



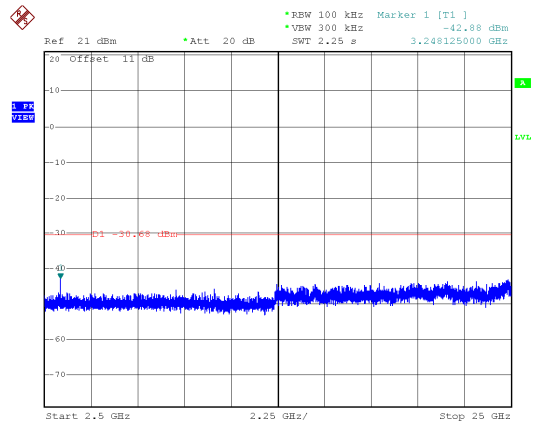
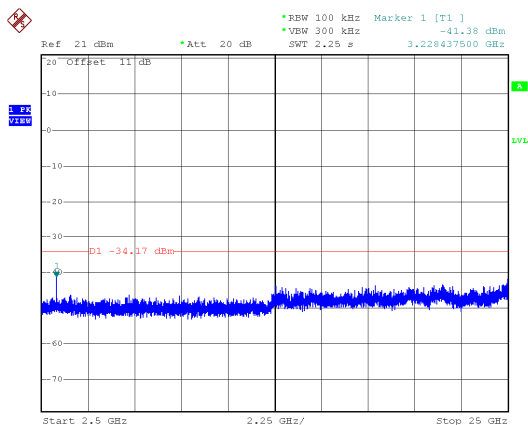
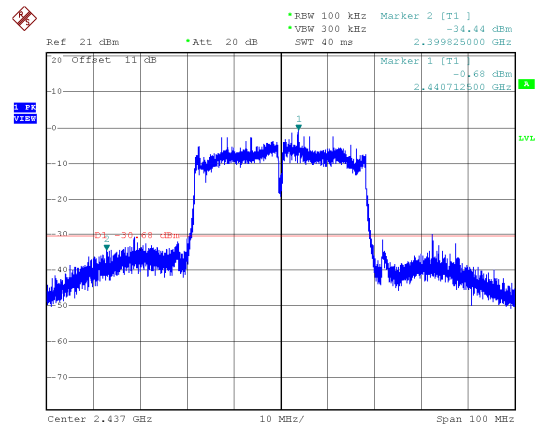
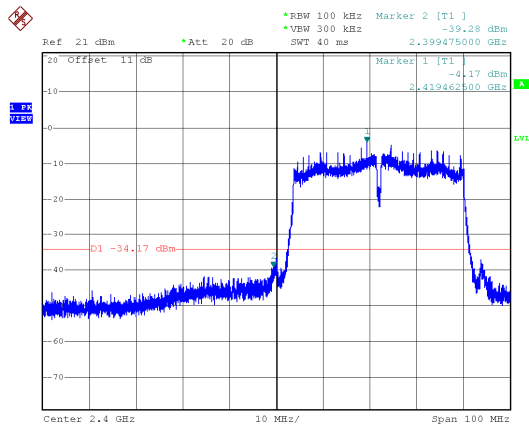
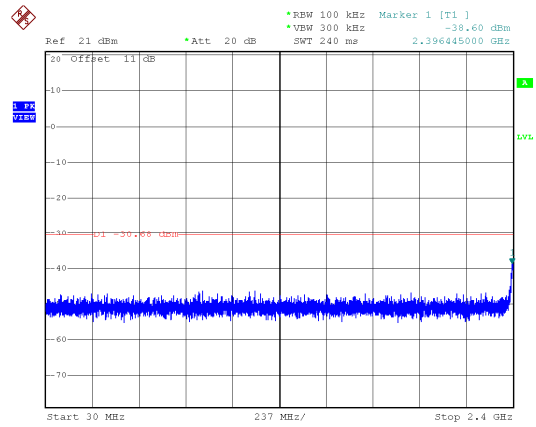


## ANT A

Modulation Type: 802.11n HT40, CH03



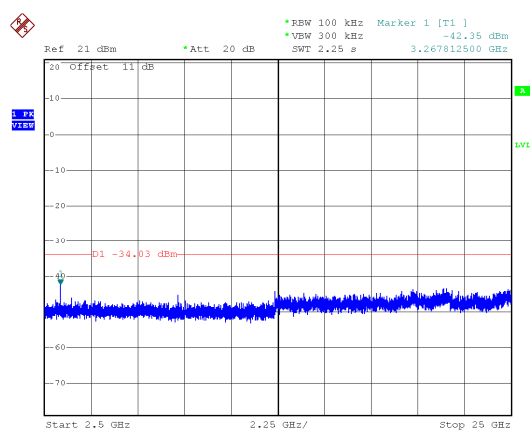
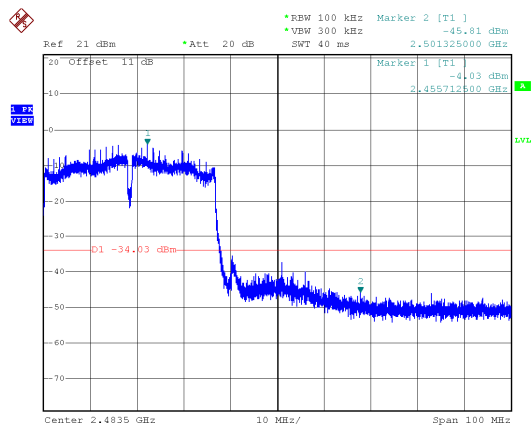
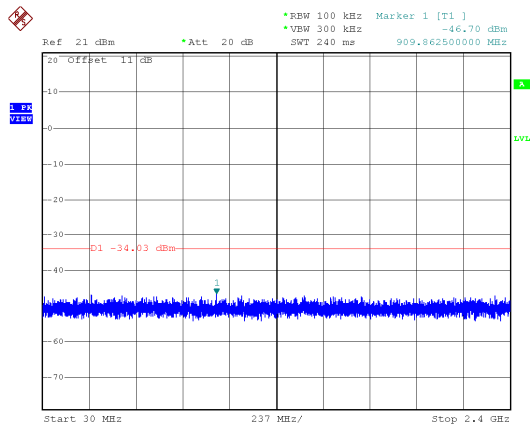
Modulation Type: 802.11n HT40, CH06





ANT A

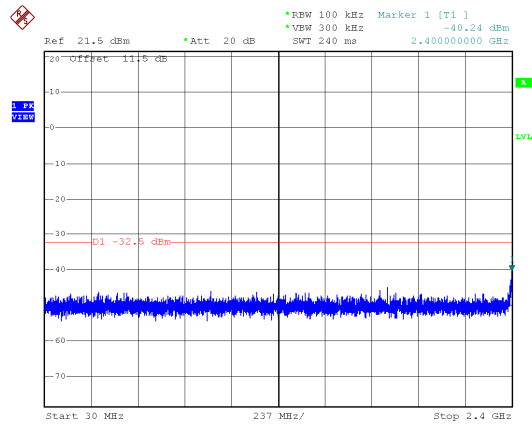
Modulation Type: 802.11n HT40, CH09



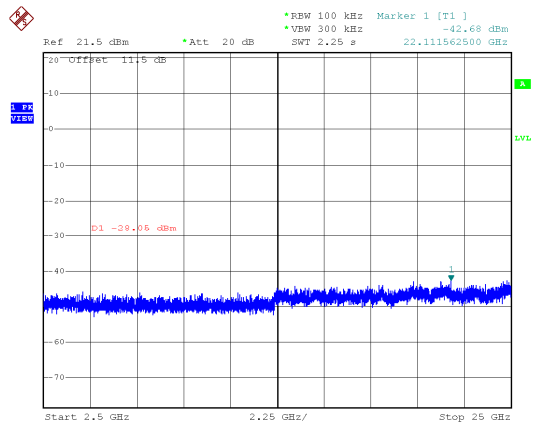
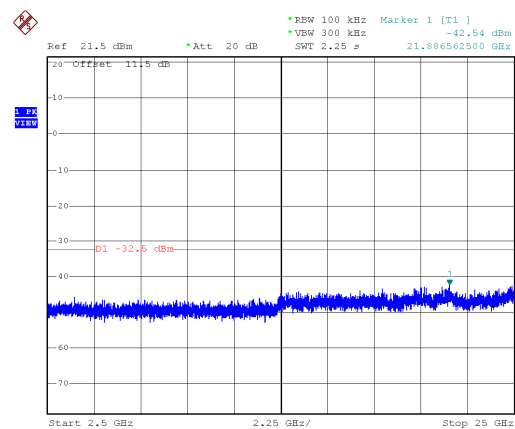
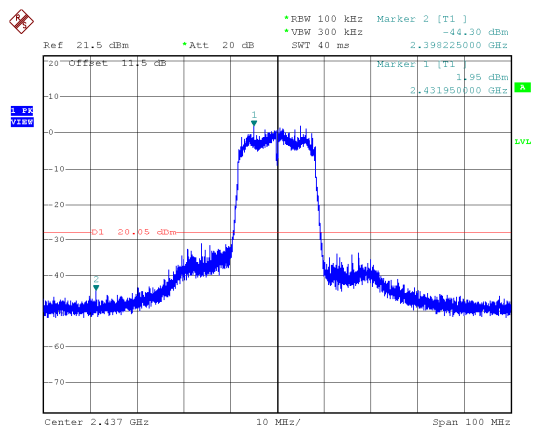
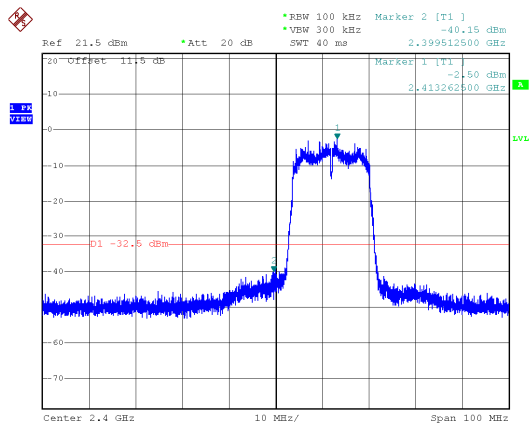
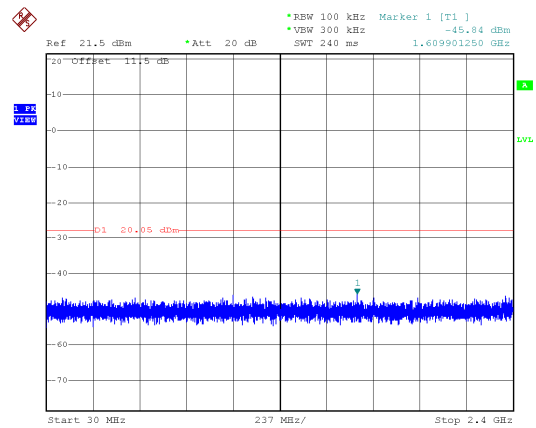


## ANT B

Modulation Type: 802.11g, CH 01



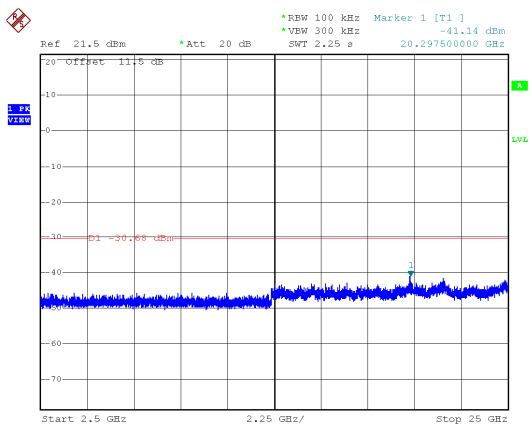
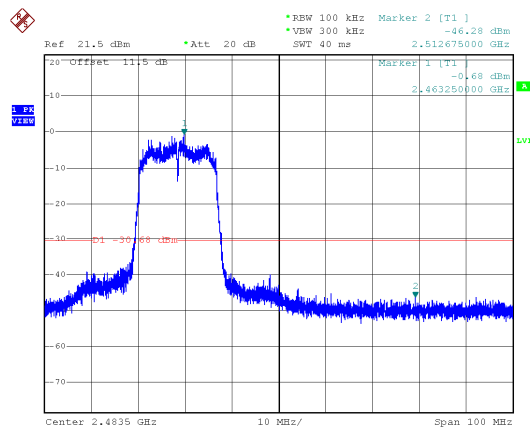
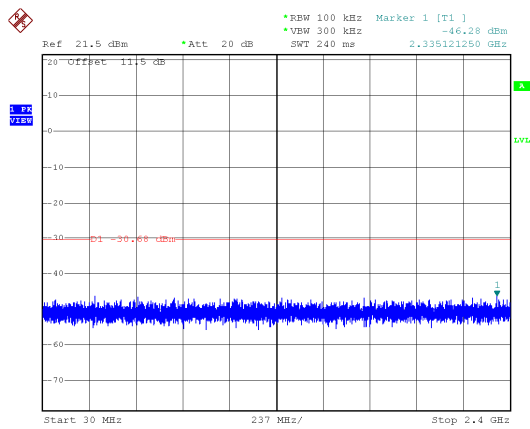
Modulation Type: 802.11g, CH 06





ANT B

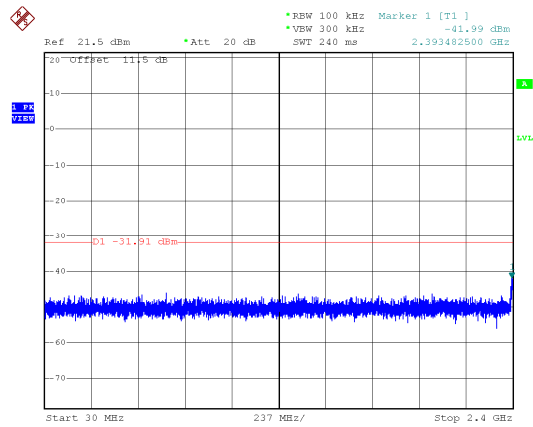
Modulation Type: 802.11g, CH 11



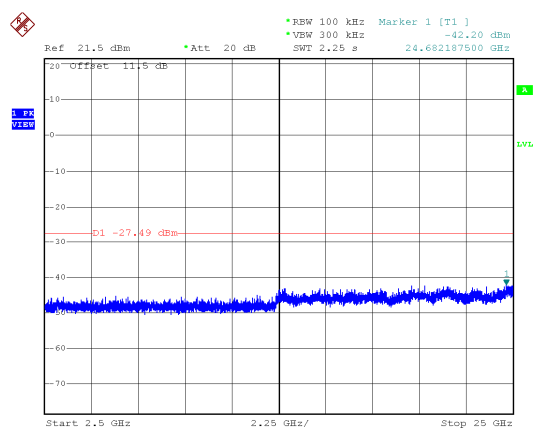
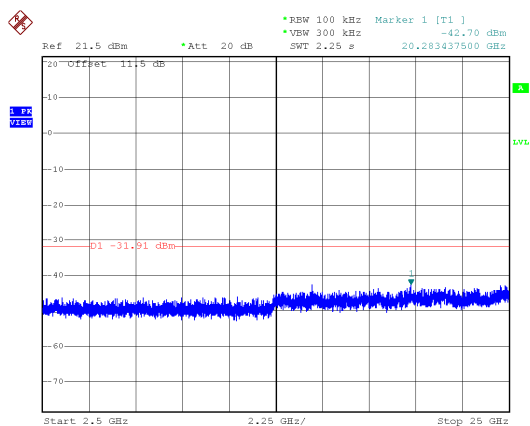
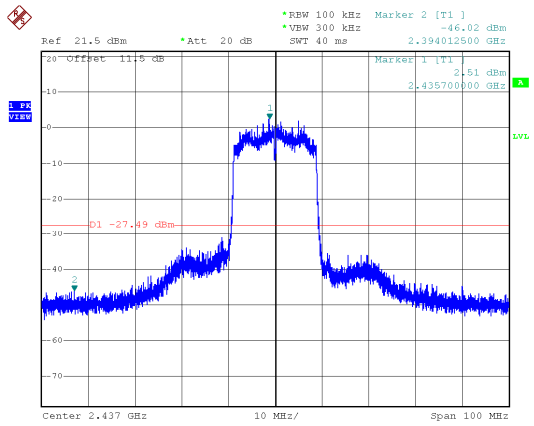
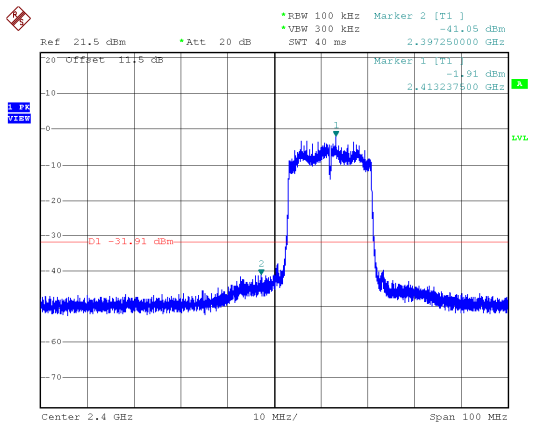
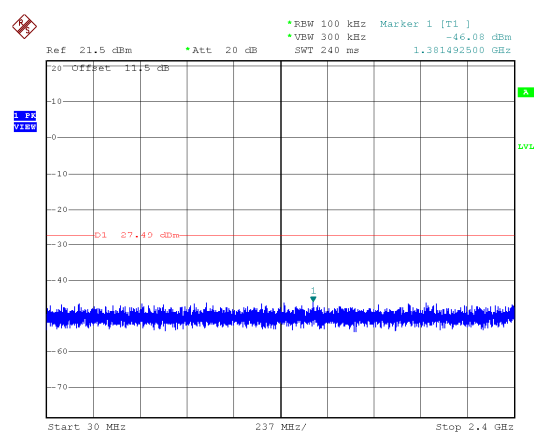


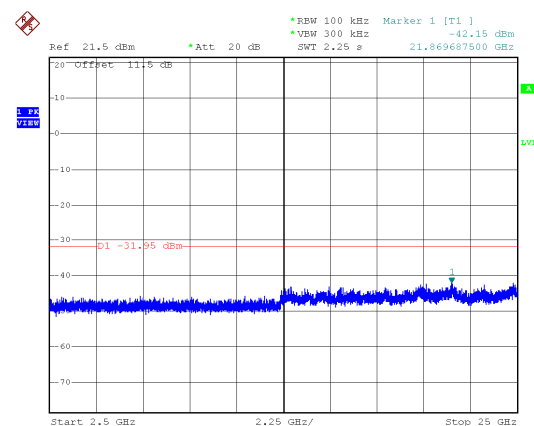
## ANT B

Modulation Type: 802.11n HT20, CH01



Modulation Type: 802.11n HT20, CH06

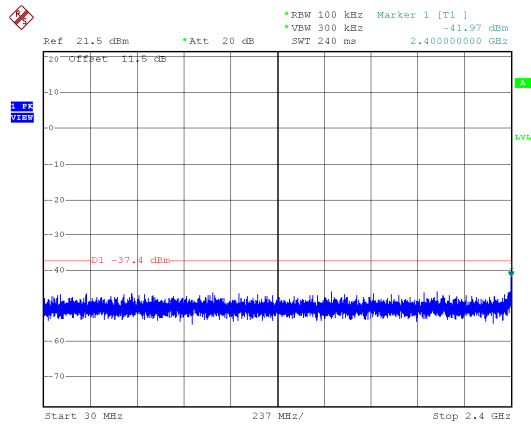




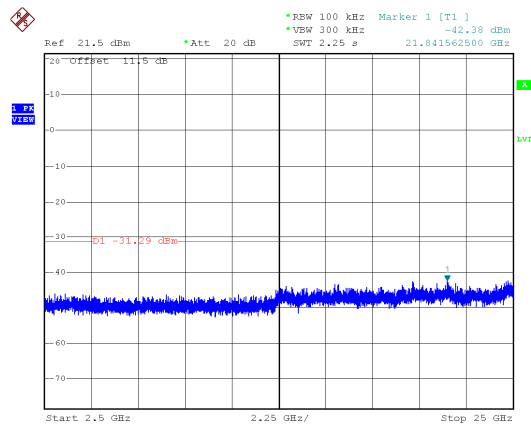
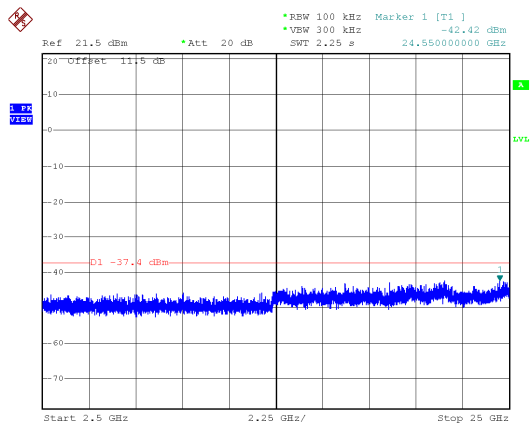
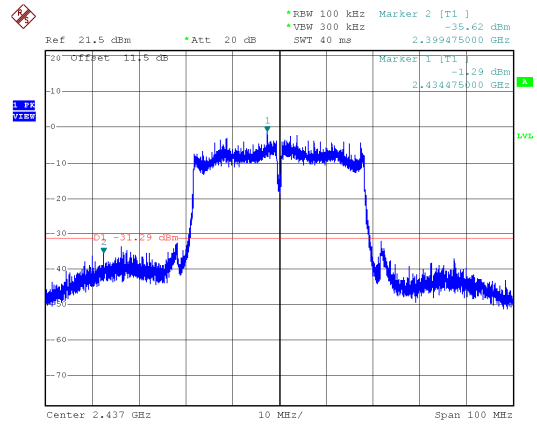
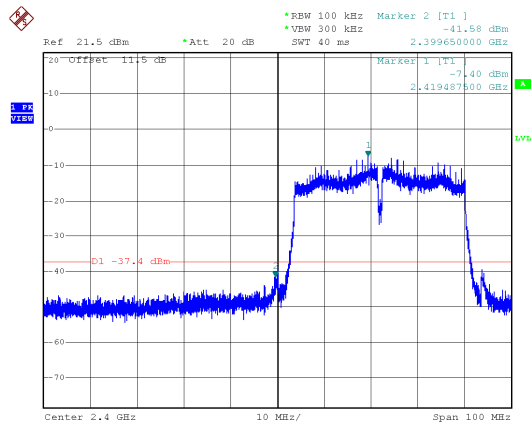
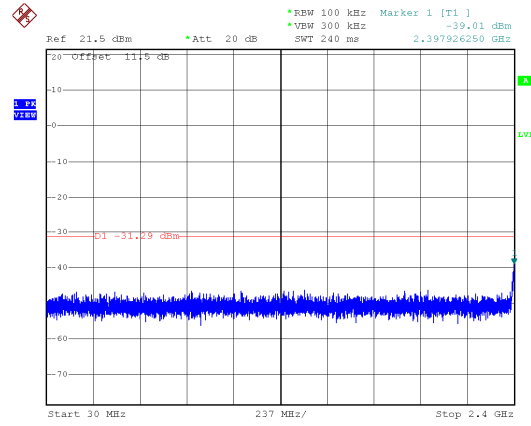


ANT B

Modulation Type: 802.11n HT40, CH03



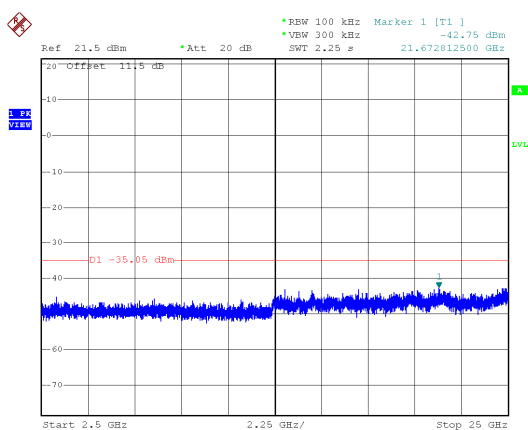
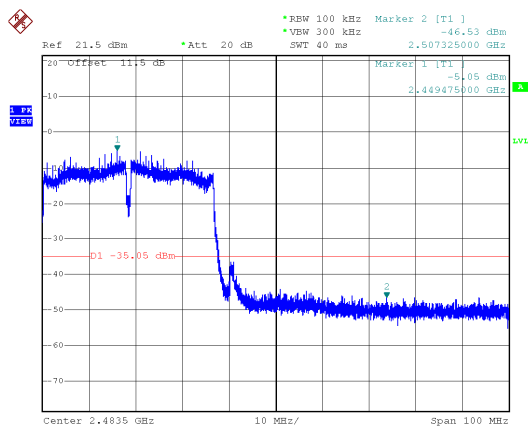
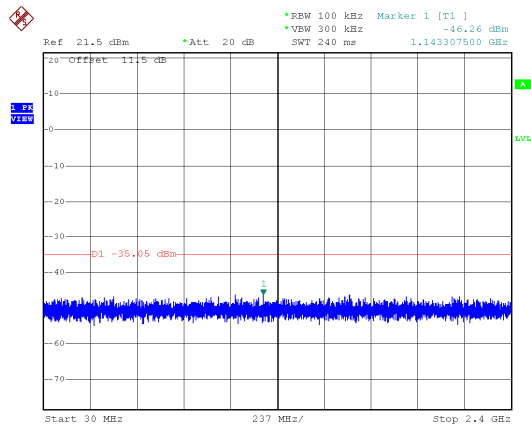
Modulation Type: 802.11n HT40, CH06





ANT B

Modulation Type: 802.11n HT40, CH09





## 8. 6dB Bandwidth Measurement Data

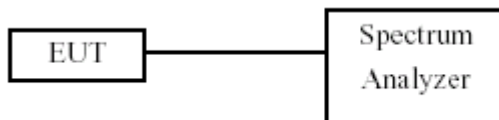
### 8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

### 8.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW  $\geq 3 \times$  RBW.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

### 8.3 Test Setup Layout



### 8.4 Test Result and Data

Temperature : 21°C

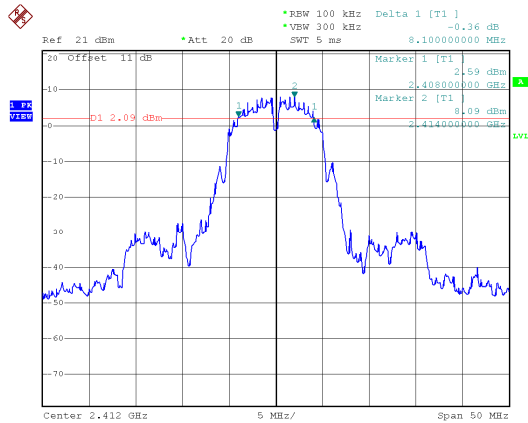
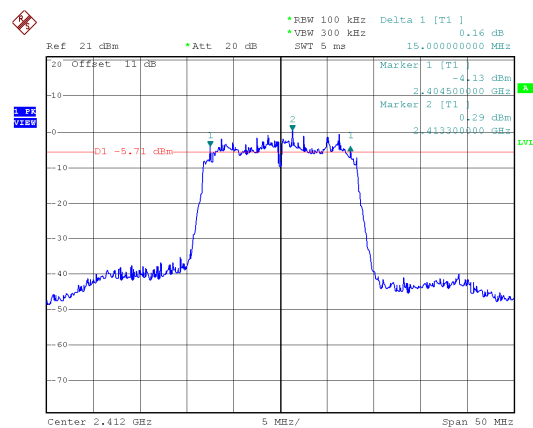
Humidity : 62%

Test Date : May 03, 2018

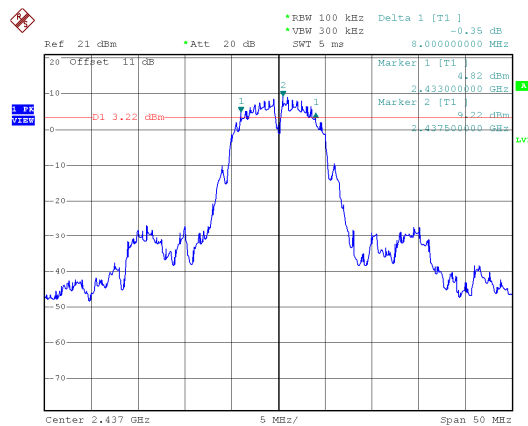
| Modulation Type              | Channel | Frequency (MHz) | 6dB Bandwidth (MHz) |       | Limit (MHz) |
|------------------------------|---------|-----------------|---------------------|-------|-------------|
|                              |         |                 | ANT A               | ANT B |             |
| IEEE 802.11b (1Mbps)         | 01      | 2412            | 8.10                | ---   | 0.5         |
|                              | 06      | 2437            | 8.00                | ---   | 0.5         |
|                              | 11      | 2462            | 8.10                | ---   | 0.5         |
| IEEE 802.11g (6Mbps)         | 01      | 2412            | 15.00               | 15.10 | 0.5         |
|                              | 06      | 2437            | 14.80               | 15.60 | 0.5         |
|                              | 11      | 2462            | 13.80               | 15.10 | 0.5         |
| IEEE 802.11n HT20 (6.5Mbps)  | 01      | 2412            | 16.00               | 15.10 | 0.5         |
|                              | 06      | 2437            | 14.50               | 15.20 | 0.5         |
|                              | 11      | 2462            | 15.00               | 15.70 | 0.5         |
| IEEE 802.11n HT40 (13.5Mbps) | 03      | 2422            | 35.30               | 35.10 | 0.5         |
|                              | 06      | 2437            | 36.10               | 36.30 | 0.5         |
|                              | 09      | 2452            | 35.10               | 36.50 | 0.5         |



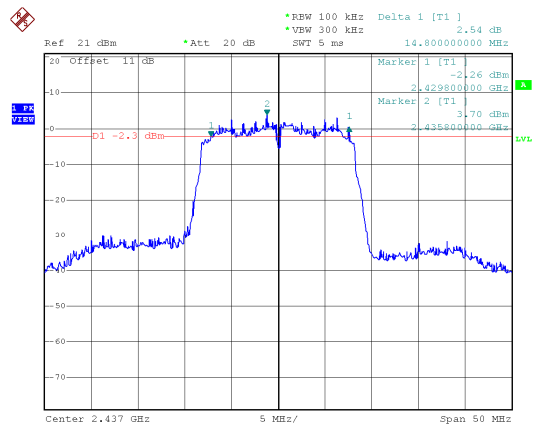
## ANT A

Modulation Type: 802.11b  
CH01Modulation Type: 802.11g  
CH01

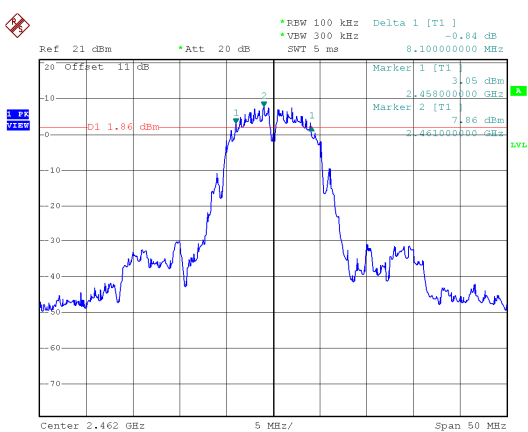
## CH06



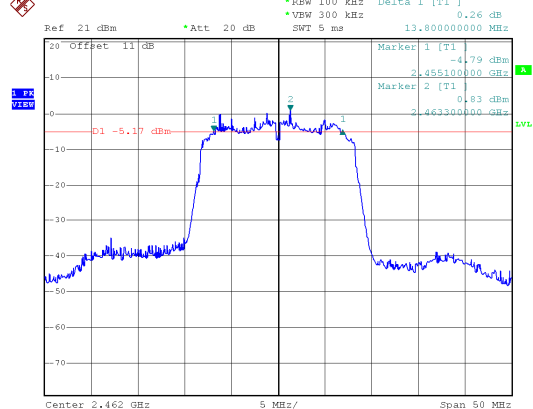
## CH06



## CH11

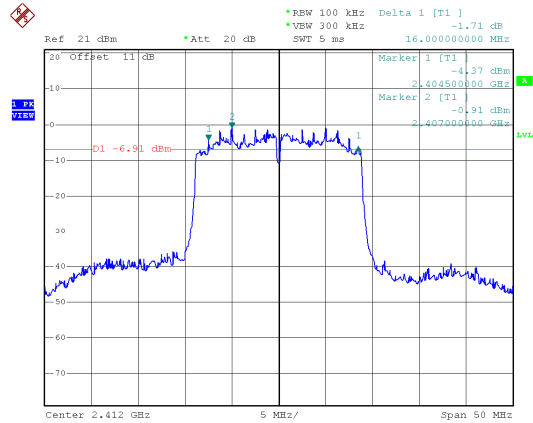
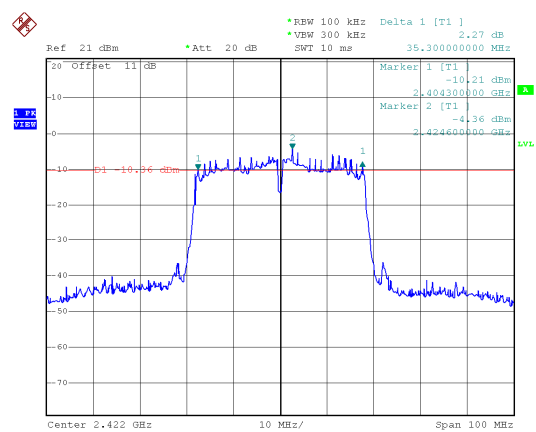


## CH11

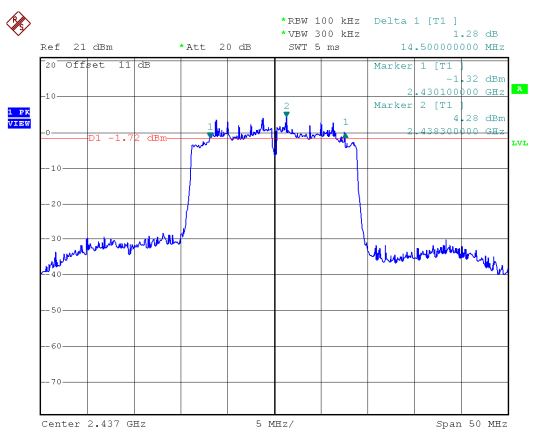




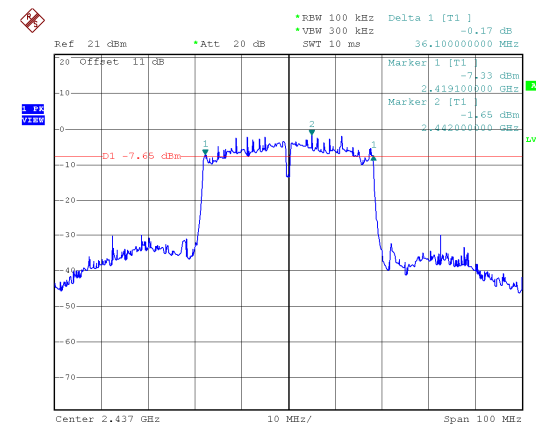
## ANT A

Modulation Type: 802.11n HT20  
CH01Modulation Type: 802.11n HT40  
CH03

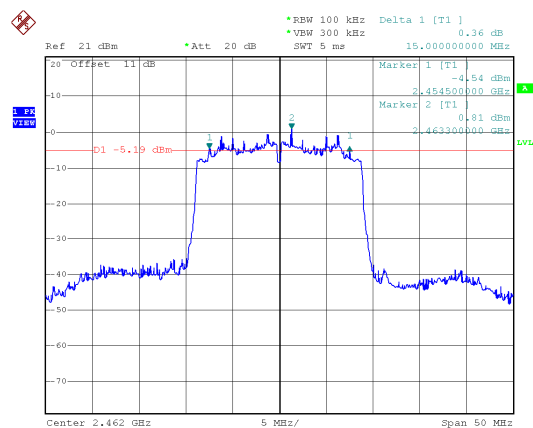
## CH06



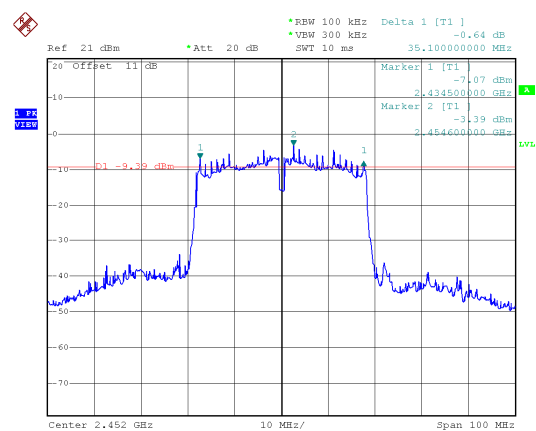
## CH06



## CH11



## CH09

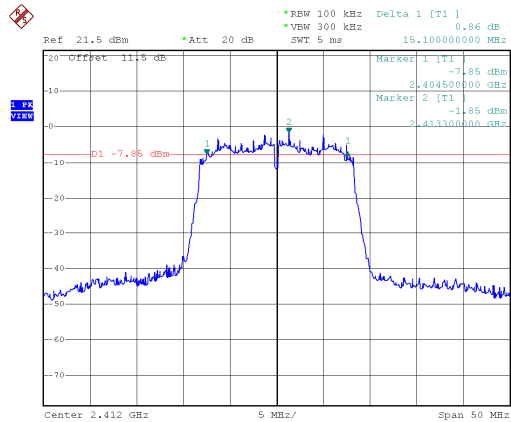




## ANT B

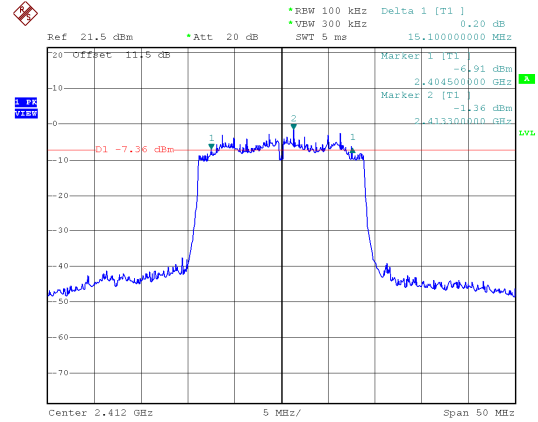
Modulation Type: 802.11g

CH01

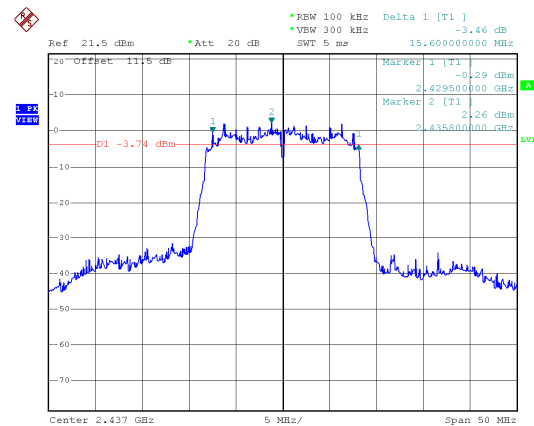


Modulation Type: 802.11n HT20

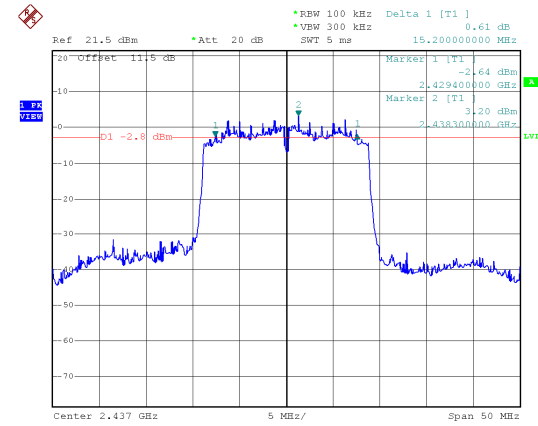
CH01



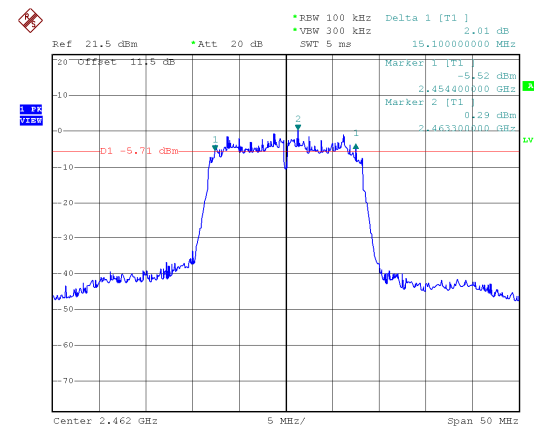
CH06



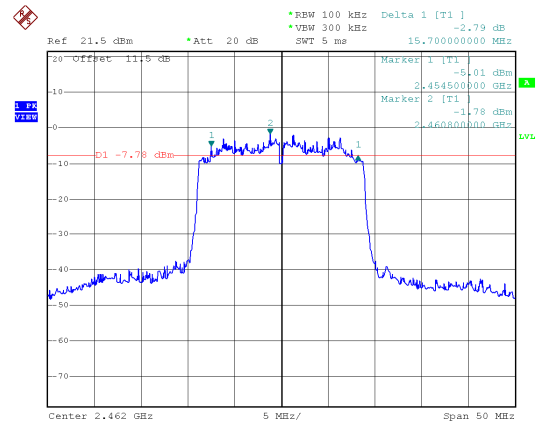
CH06



CH11



CH11

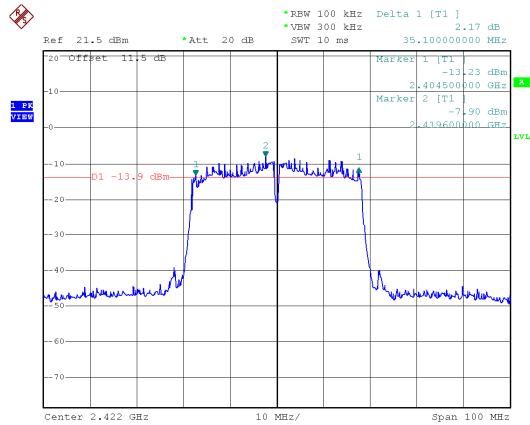




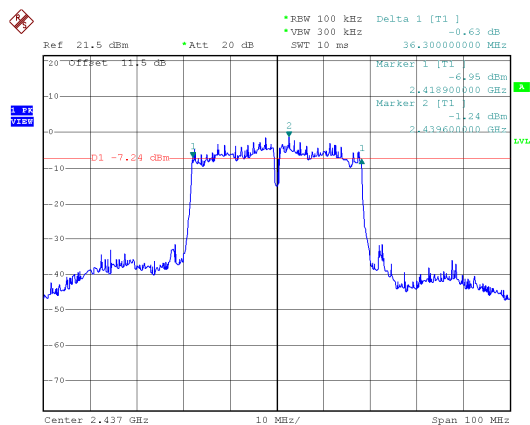
## ANT B

Modulation Type: 802.11n HT40

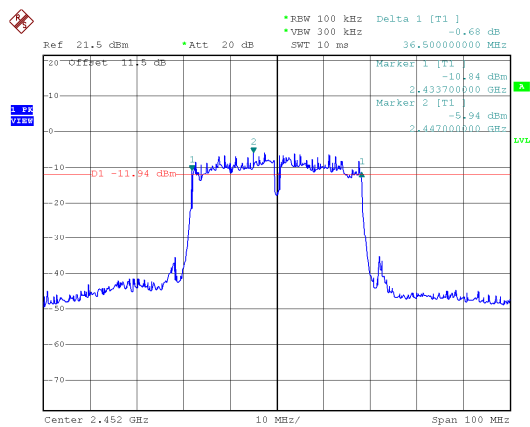
## CH03



## CH06



## CH09





## 9. Maximum Average Output Power

### 9.1 Test Limit

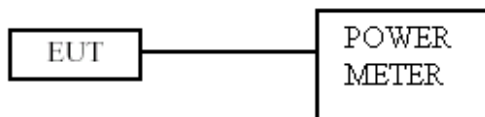
The Maximum Average Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

### 9.3 Test Setup Layout



### 9.4 Test Result and Data

Temperature : 21°C  
Test Date : May 03, 2018

Humidity : 62%

| Modulation Type              | Channel | Freq. (MHz) | Average Power Output (dBm) |       | Total Power (dBm) | Total Power (mW) | Power Limit (dBm) | Total e.i.r.p. Power (dBm) | Total e.i.r.p. Power (mW) | e.i.r.p. Limit (dBm) |
|------------------------------|---------|-------------|----------------------------|-------|-------------------|------------------|-------------------|----------------------------|---------------------------|----------------------|
|                              |         |             | ANT A                      | ANT B |                   |                  |                   |                            |                           |                      |
| IEEE 802.11b (1Mbps)         | 01      | 2412        | 17.19                      | ---   | 17.19             | 52.36            | 30.00             | 20.97                      | 125.03                    | 36.00                |
|                              | 06      | 2437        | 17.71                      | ---   | 17.71             | 59.02            | 30.00             | 21.49                      | 140.93                    | 36.00                |
|                              | 11      | 2462        | 16.39                      | ---   | 16.39             | 43.55            | 30.00             | 20.17                      | 103.99                    | 36.00                |
| IEEE 802.11g (6Mbps)         | 01      | 2412        | 10.84                      | 9.81  | 13.37             | 21.71            | 30.00             | 17.15                      | 51.83                     | 36.00                |
|                              | 06      | 2437        | 14.52                      | 14.39 | 17.47             | 55.79            | 30.00             | 21.25                      | 133.22                    | 36.00                |
|                              | 11      | 2462        | 11.51                      | 10.81 | 14.18             | 26.21            | 30.00             | 17.96                      | 62.58                     | 36.00                |
| IEEE 802.11n HT20 (6.5Mbps)  | 01      | 2412        | 10.72                      | 9.14  | 13.01             | 20.01            | 30.00             | 16.79                      | 47.77                     | 36.00                |
|                              | 06      | 2437        | 14.79                      | 13.97 | 17.41             | 55.08            | 30.00             | 21.19                      | 131.51                    | 36.00                |
|                              | 11      | 2462        | 10.59                      | 9.62  | 13.14             | 20.62            | 30.00             | 16.92                      | 49.23                     | 36.00                |
| IEEE 802.11n HT40 (13.5Mbps) | 03      | 2422        | 9.07                       | 7.91  | 11.54             | 14.25            | 30.00             | 11.54                      | 14.25                     | 36.00                |
|                              | 06      | 2437        | 12.77                      | 12.16 | 15.49             | 35.37            | 30.00             | 15.49                      | 35.37                     | 36.00                |
|                              | 09      | 2452        | 9.56                       | 8.81  | 12.21             | 16.64            | 30.00             | 12.21                      | 16.64                     | 36.00                |



## 10. Power Spectral Density

### 10.1 Test Limit

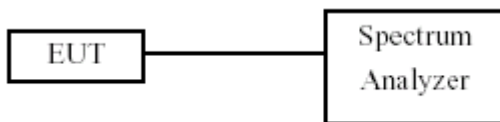
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

### 10.2 Test Procedures

KDB 558074 Method AVGPSD-2 (trace averaging across on- and off-times of the EUT transmissions, followed by duty cycle correction).

### 10.3 Test Setup Layout



### 10.4 Test Result and Data

Temperature : 21°C

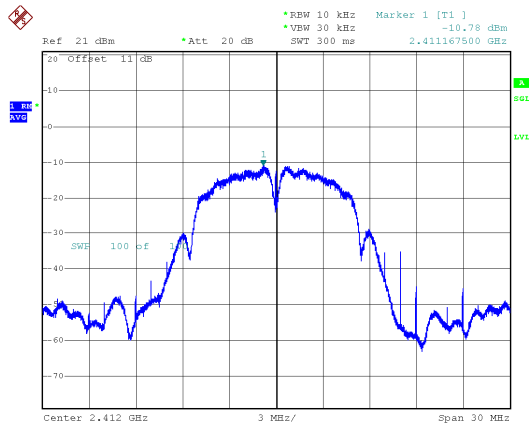
Humidity : 62%

Test Date : May 03, 2018

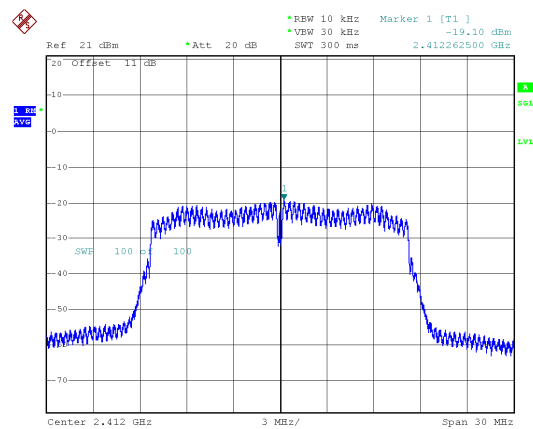
| Modulation Type              | Channel | Frequency (MHz) | Maximum Power Density (dBm) |        | Sum chain (dBm) | Duty Cycle CF(dB) | Total PSD (dBm) | Limit (dBm) |
|------------------------------|---------|-----------------|-----------------------------|--------|-----------------|-------------------|-----------------|-------------|
|                              |         |                 | ANT A                       | ANT B  |                 |                   |                 |             |
| IEEE 802.11b (1Mbps)         | 01      | 2412            | -10.78                      | ---    | -10.78          | 0.00              | -10.78          | 8.00        |
|                              | 06      | 2437            | -10.02                      | ---    | -10.02          | 0.00              | -10.02          | 8.00        |
|                              | 11      | 2462            | -11.61                      | ---    | -11.61          | 0.00              | -11.61          | 8.00        |
| IEEE 802.11g (6Mbps)         | 01      | 2412            | -19.1                       | -20.58 | -16.77          | 0.00              | -16.77          | 7.87        |
|                              | 06      | 2437            | -14.83                      | -15.66 | -12.21          | 0.00              | -12.21          | 7.87        |
|                              | 11      | 2462            | -18.07                      | -19.12 | -15.55          | 0.00              | -15.55          | 7.87        |
| IEEE 802.11n HT20 (6.5Mbps)  | 01      | 2412            | -19.21                      | -21.01 | -17.01          | 0.00              | -17.01          | 7.87        |
|                              | 06      | 2437            | -15.12                      | -16.23 | -12.63          | 0.00              | -12.63          | 7.87        |
|                              | 11      | 2462            | -19.46                      | -20.63 | -17.00          | 0.00              | -17.00          | 7.87        |
| IEEE 802.11n HT40 (13.5Mbps) | 03      | 2422            | -19.23                      | -20.6  | -16.85          | 0.00              | -16.85          | 7.87        |
|                              | 06      | 2437            | -15.21                      | -16.21 | -12.67          | 0.00              | -12.67          | 7.87        |
|                              | 09      | 2452            | -18.41                      | -21.46 | -16.66          | 0.00              | -16.66          | 7.87        |



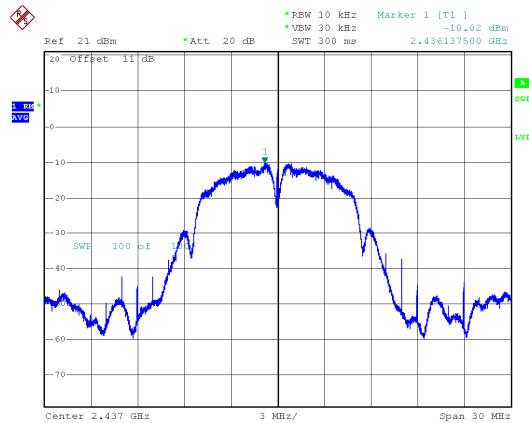
ANT A  
Modulation Type: 802.11b  
CH01



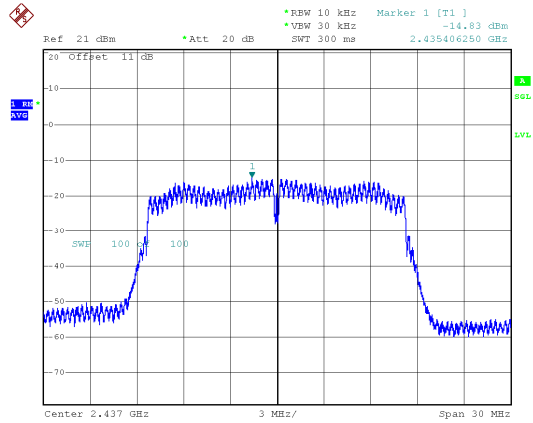
Modulation Type: 802.11g  
CH01



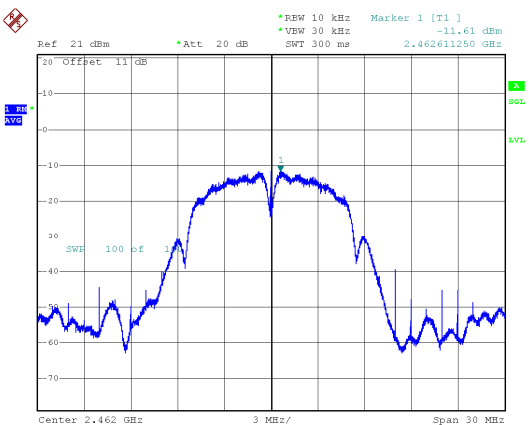
CH06



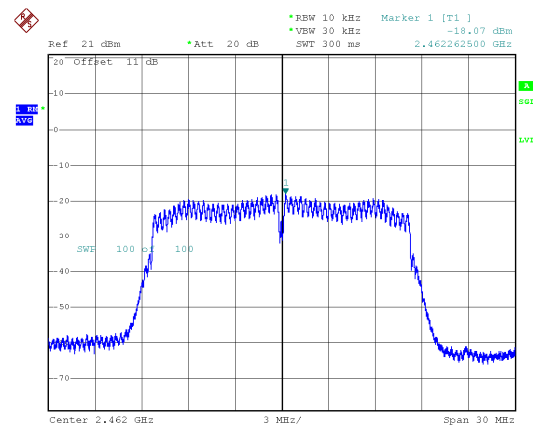
CH06



CH11

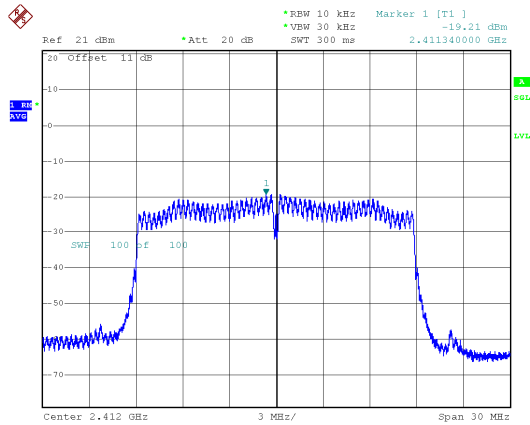


CH11

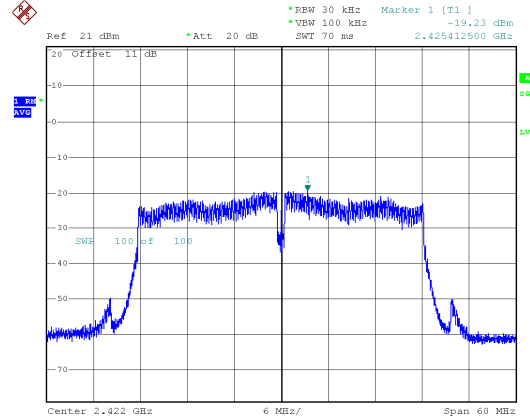




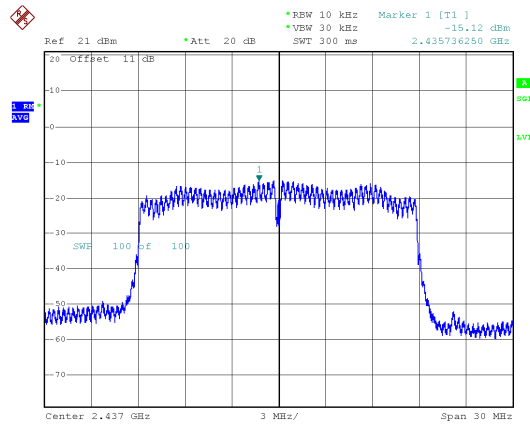
ANT A  
Modulation Type: 802.11n HT20  
CH01



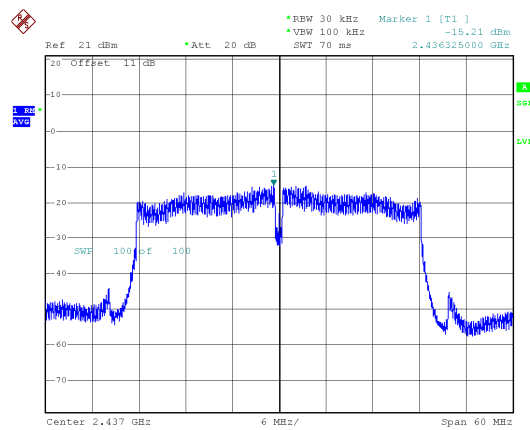
Modulation Type: 802.11n HT40  
CH03



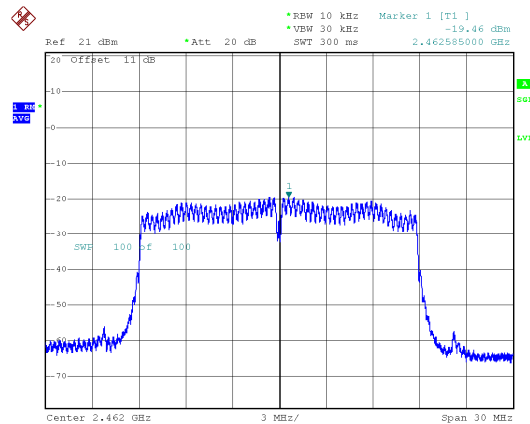
CH06



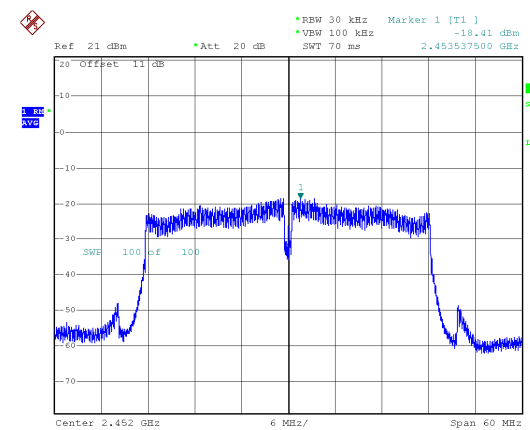
CH06



CH11

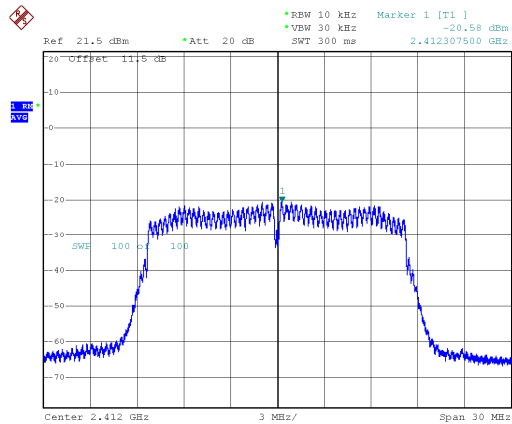


CH09

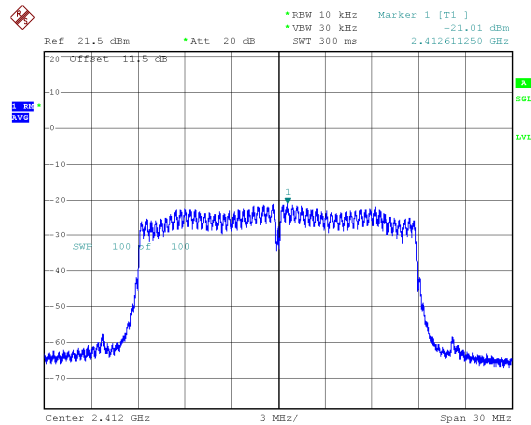




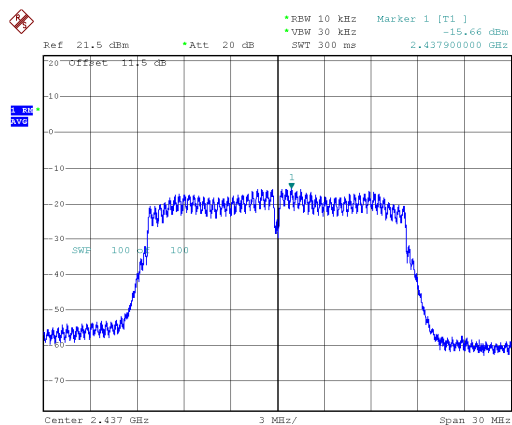
ANT B  
Modulation Type: 802.11g  
CH01



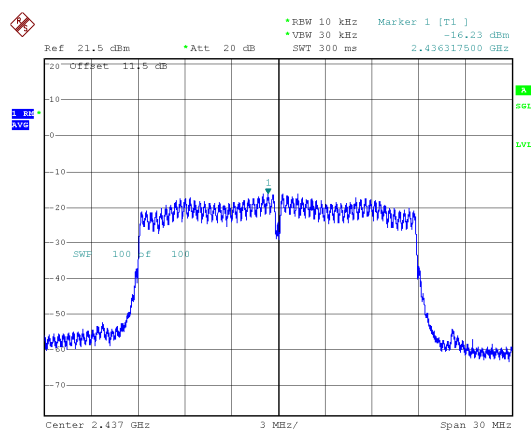
Modulation Type: 802.11n HT20  
CH01



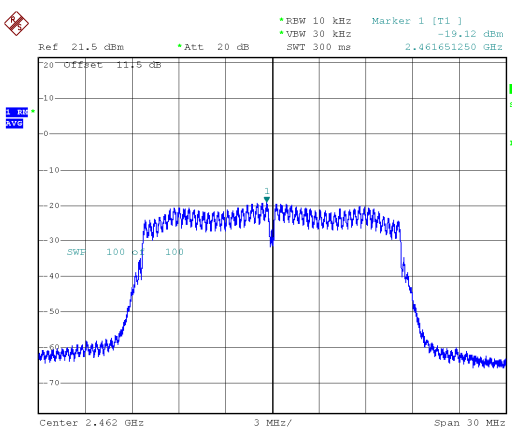
CH06



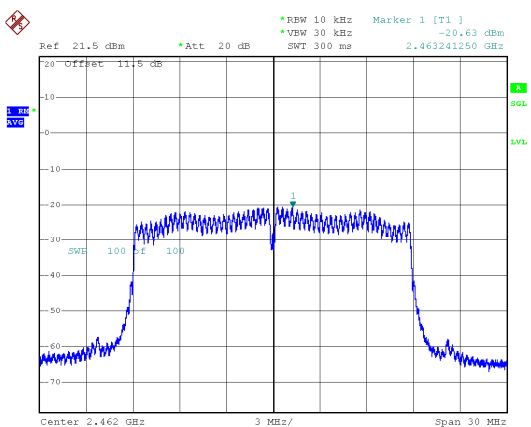
CH06



CH11

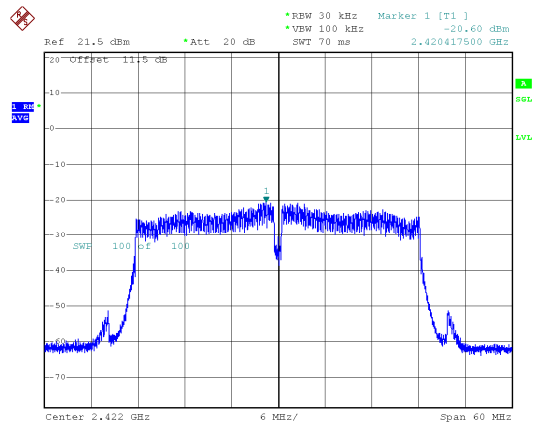


CH11

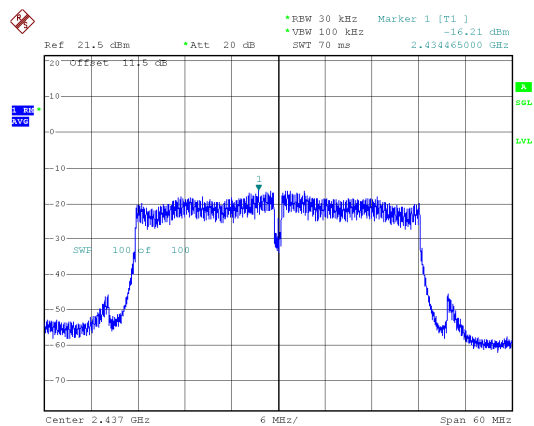




ANT B  
Modulation Type: 802.11n HT40  
CH03



CH06



CH09

