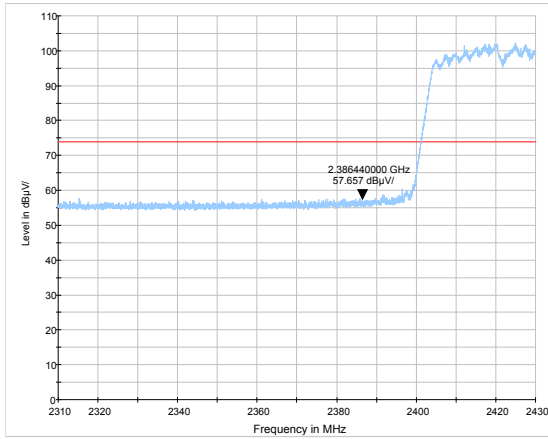
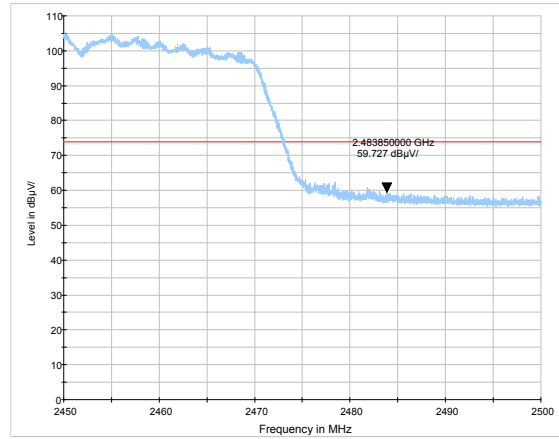


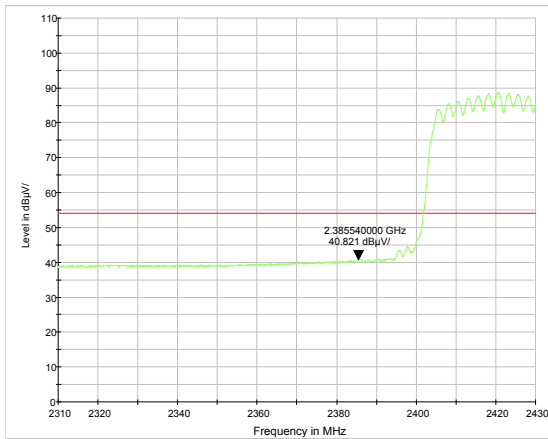
802.11n HT40 -Channel 3: Peak



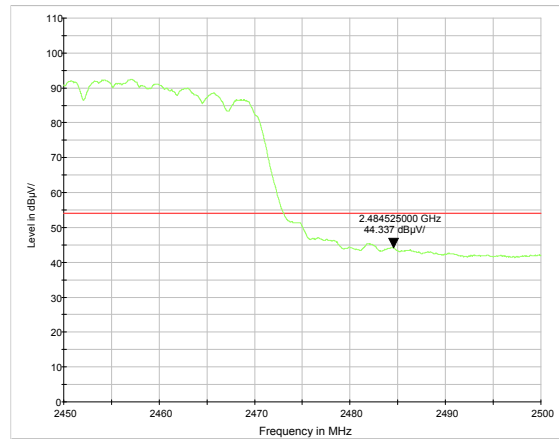
802.11n HT40-Channel 9: Peak



802.11n HT40-Channel 3: Average



802.11n HT40-Channel 9: Average



## 5.7. Radiates Emission

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 102.5kPa |

### Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10-2013. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, below 30MHz, the center of the loop shall be 1 meters; above 30MHz, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

Below 1GHz (detector: Peak and Quasi-Peak)

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz (detector: Peak):

(a) PEAK: RBW=1MHz / VBW=3MHz/ Sweep=AUTO

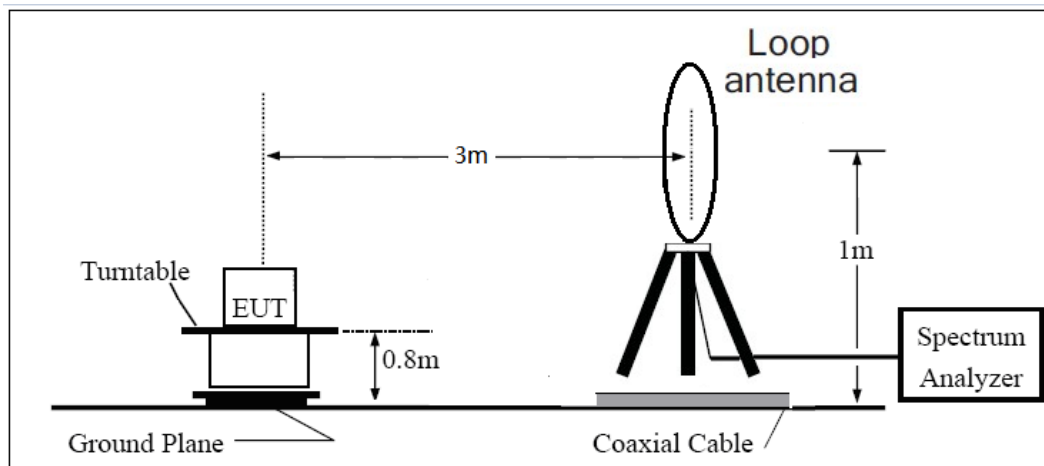
(b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

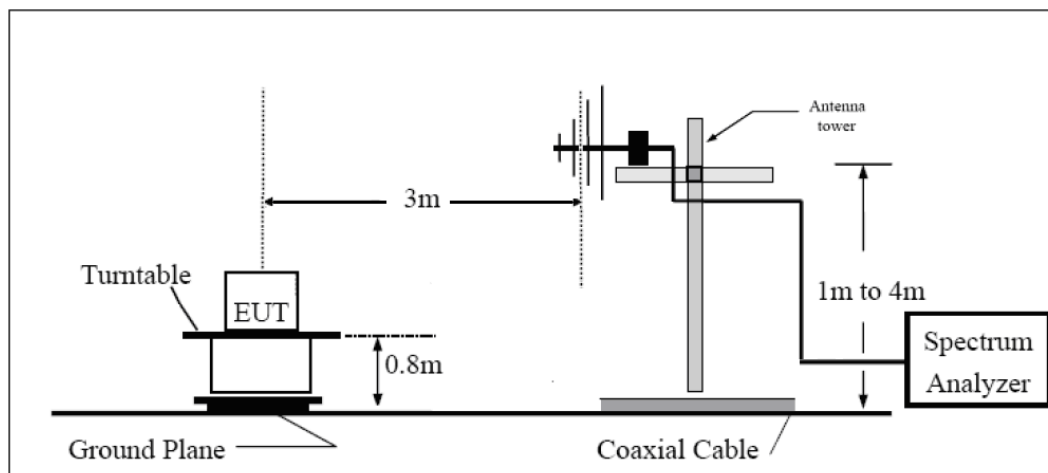
The test is in transmitting mode.

## Test setup

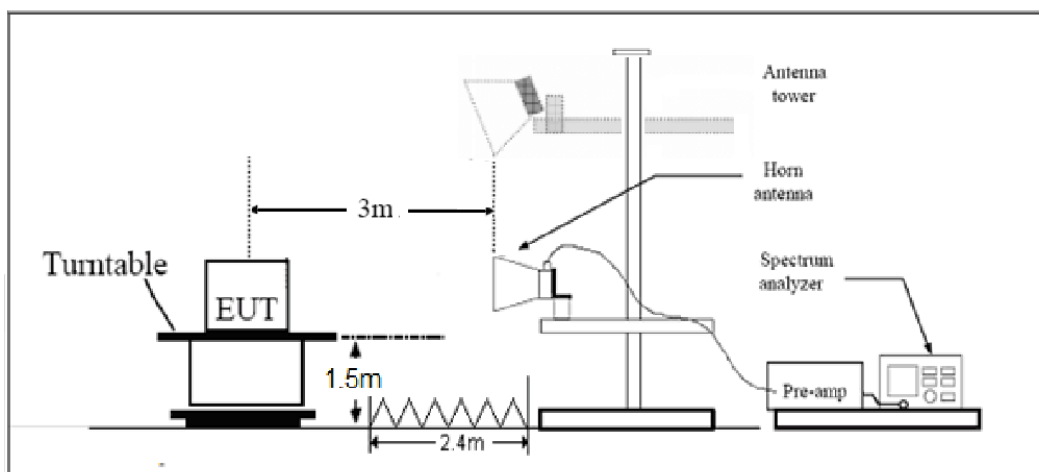
### 9KHz ~ 30MHz



### 30MHz ~ 1GHz



### Above 1GHz



Note: Area side:2.4mX3.6m

## Limits

Rule Part 15.247(d) specifies that “In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).”

Limit in restricted band

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009–0.490                 | 2400/F(kHz)          | /                      |
| 0.490–1.705                 | 24000/F(kHz)         | /                      |
| 1.705–30.0                  | 30                   | /                      |
| 30-88                       | 100                  | 40                     |
| 88-216                      | 150                  | 43.5                   |
| 216-960                     | 200                  | 46                     |
| Above960                    | 500                  | 54                     |

## §15.35(b)

There is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

## Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

| Frequency    | Uncertainty |
|--------------|-------------|
| 9KHz-30MHz   | 3.55 dB     |
| 30MHz-200MHz | 4.19 dB     |
| 200MHz-1GHz  | 3.63 dB     |
| Above 1GHz   | 3.68 dB     |

**Test result**

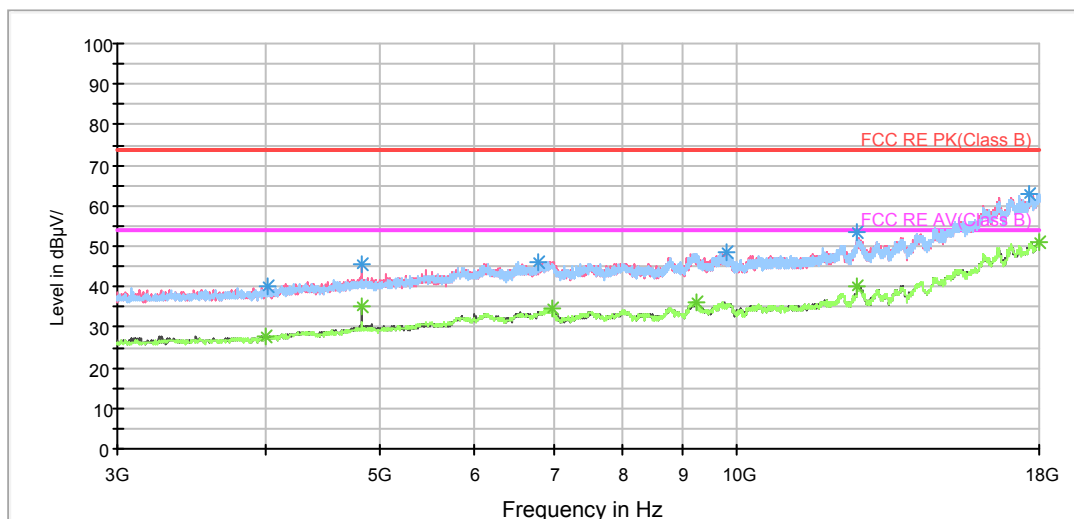
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

The following graphs display the maximum values of horizontal and vertical by software.

For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

**SISO Antenna 1**

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 4016.250000     | 40.3          | 102.0       | V            | 348.0         | 41.5                   | -1.2                | 33.7        | 74             |
| 4824.375000     | 45.4          | 202.0       | V            | 291.0         | 44.0                   | 1.4                 | 28.6        | 74             |
| 6804.375000     | 46.2          | 102.0       | H            | 153.0         | 40.4                   | 5.8                 | 27.8        | 74             |
| 9796.875000     | 48.4          | 102.0       | V            | 96.0          | 38.4                   | 10.0                | 25.6        | 74             |
| 12639.375000    | 53.6          | 202.0       | H            | 322.0         | 39.1                   | 14.5                | 20.4        | 74             |
| 17675.625000    | 63.0          | 102.0       | V            | 211.0         | 38.5                   | 24.5                | 11.0        | 74             |

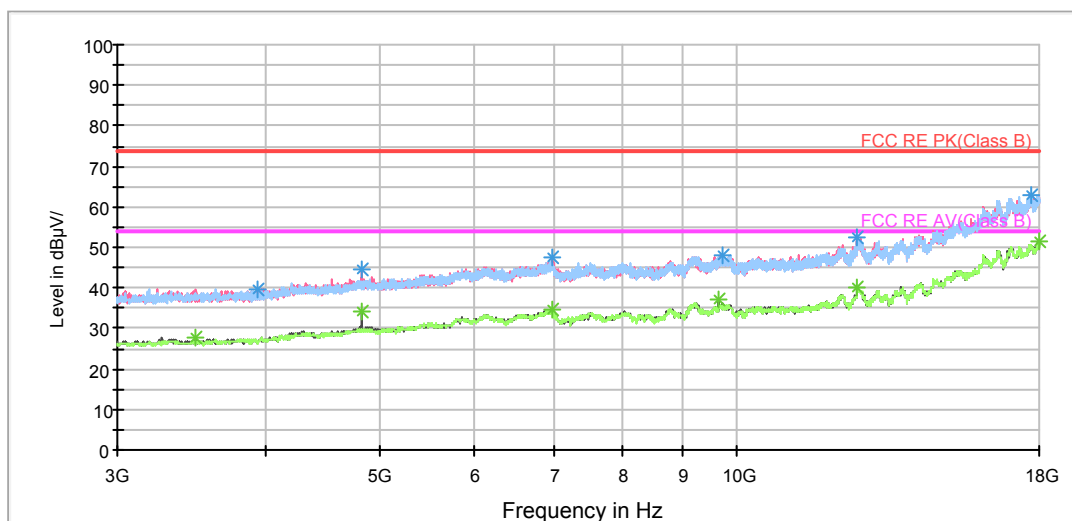
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3999.375000     | 28.0             | 102.0       | V            | 0.0           | 29.1                   | -1.1                | 26.0        | 54             |
| 4822.500000     | 35.4             | 202.0       | V            | 0.0           | 34.1                   | 1.3                 | 18.6        | 54             |
| 6997.500000     | 34.6             | 202.0       | V            | 244.0         | 28.1                   | 6.5                 | 19.4        | 54             |
| 9232.500000     | 36.2             | 202.0       | H            | 0.0           | 26.3                   | 9.9                 | 17.8        | 54             |
| 12648.750000    | 40.1             | 102.0       | H            | 0.0           | 25.9                   | 14.2                | 13.9        | 54             |
| 18000.000000    | 51.2             | 102.0       | V            | 234.0         | 25.7                   | 25.5                | 2.8         | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## SISO Antenna 2

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3933.750000     | 39.8          | 202.0       | V            | 57.0          | 40.9                   | -1.1                | 34.2        | 74             |
| 4822.500000     | 44.7          | 202.0       | V            | 218.0         | 43.4                   | 1.3                 | 29.3        | 74             |
| 6995.625000     | 47.6          | 202.0       | V            | 0.0           | 41.1                   | 6.5                 | 26.4        | 74             |
| 9736.875000     | 47.9          | 202.0       | H            | 342.0         | 38.0                   | 9.9                 | 26.1        | 74             |
| 12650.625000    | 52.4          | 202.0       | V            | 0.0           | 38.3                   | 14.1                | 21.6        | 74             |
| 17692.500000    | 62.7          | 102.0       | V            | 114.0         | 38.1                   | 24.6                | 11.3        | 74             |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 3498.750000     | 27.9             | 202.0       | V            | 293.0         | 30.0                   | -2.1                | 26.1        | 54             |
| 4822.500000     | 34.4             | 202.0       | V            | 218.0         | 33.1                   | 1.3                 | 19.6        | 54             |
| 6993.750000     | 34.7             | 202.0       | V            | 126.0         | 28.2                   | 6.5                 | 19.3        | 54             |
| 9648.750000     | 36.9             | 202.0       | V            | 0.0           | 27.1                   | 9.8                 | 17.1        | 54             |
| 12648.750000    | 40.1             | 102.0       | V            | 0.0           | 25.9                   | 14.2                | 13.9        | 54             |
| 17998.125000    | 51.4             | 102.0       | H            | 199.0         | 26.0                   | 25.4                | 2.6         | 54             |

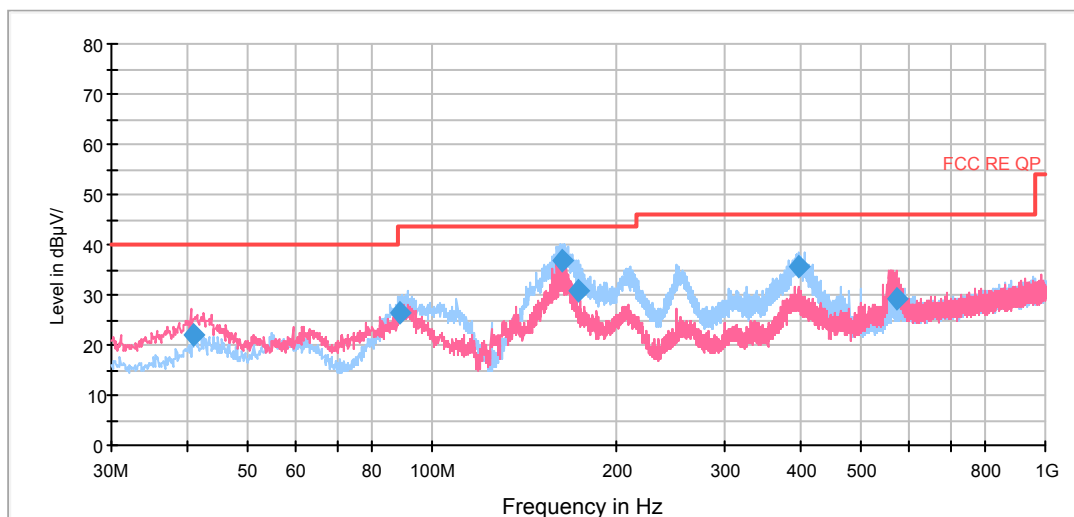
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

After the pre test, Antenna 2 was selected as the worst antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

**Continuous TX mode:**

FCC RE 0.03-1GHz QP Class B



Radiates Emission from 30MHz to 1GHz



## Antenna 1 802.11b CH1

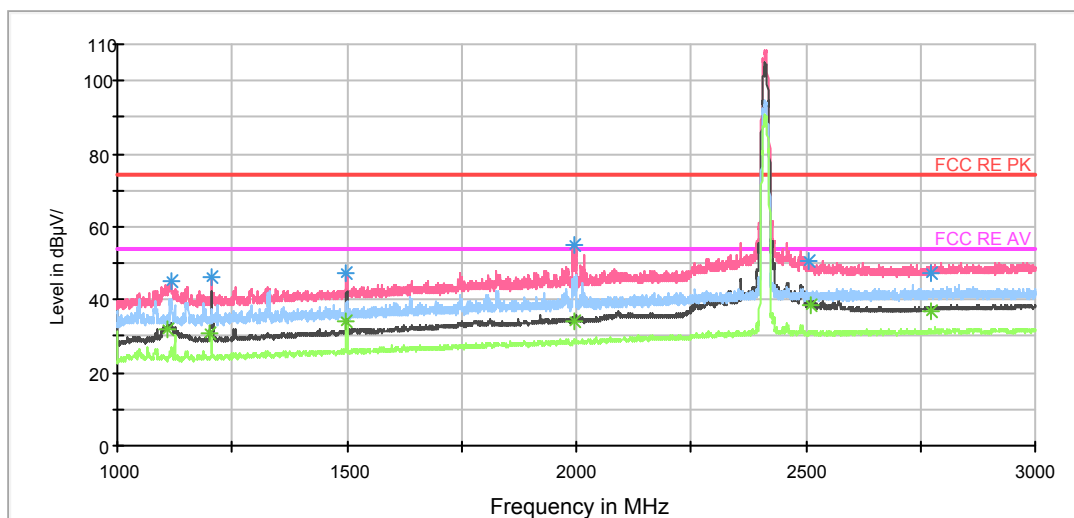
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1116.250000     | 44.9          | 100.0       | V            | 0.0           | 53.5                   | -8.6                | 29.1        | 74             |
| 1206.250000     | 46.2          | 100.0       | V            | 234.0         | 54.3                   | -8.1                | 27.8        | 74             |
| 1499.750000     | 47.5          | 100.0       | V            | 0.0           | 53.9                   | -6.4                | 26.5        | 74             |
| 1996.250000     | 55.1          | 100.0       | V            | 291.0         | 58.7                   | -3.6                | 18.9        | 74             |
| 2506.500000     | 50.4          | 100.0       | V            | 322.0         | 51.3                   | -0.9                | 23.6        | 74             |
| 2772.000000     | 47.1          | 100.0       | V            | 0.0           | 47.7                   | -0.6                | 26.9        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1108.500000     | 32.1             | 100.0       | V            | 359.0         | 40.8                   | -8.7                | 21.9        | 54             |
| 1201.500000     | 31.0             | 100.0       | V            | 322.0         | 39.2                   | -8.2                | 23.0        | 54             |
| 1499.000000     | 34.3             | 100.0       | V            | 357.0         | 40.7                   | -6.4                | 19.7        | 54             |
| 1995.250000     | 34.3             | 100.0       | V            | 336.0         | 37.9                   | -3.6                | 19.7        | 54             |
| 2509.750000     | 38.3             | 100.0       | V            | 312.0         | 39.2                   | -0.9                | 15.7        | 54             |
| 2775.000000     | 37.1             | 100.0       | V            | 0.0           | 37.6                   | -0.5                | 16.9        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B

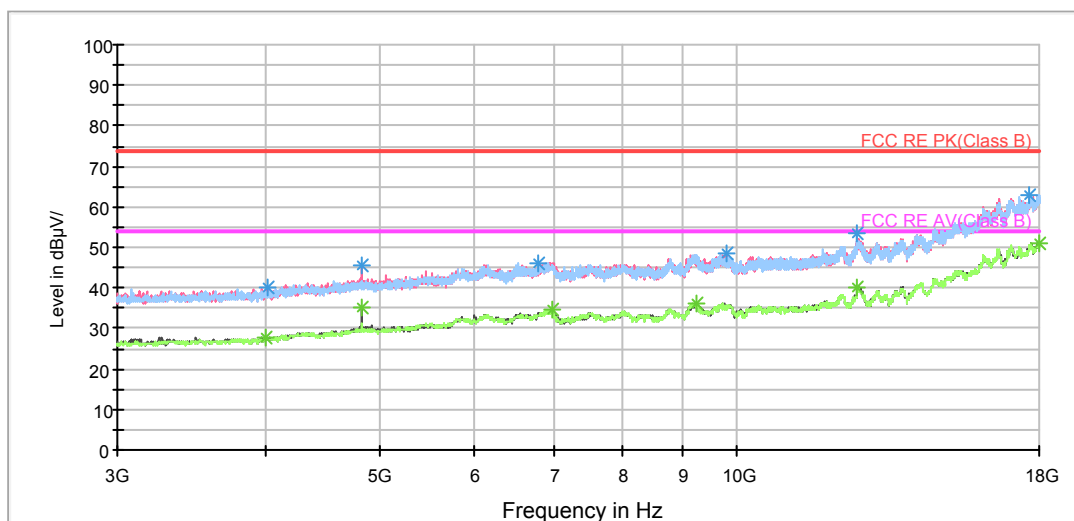


Note: The signal beyond the limit is carrier.



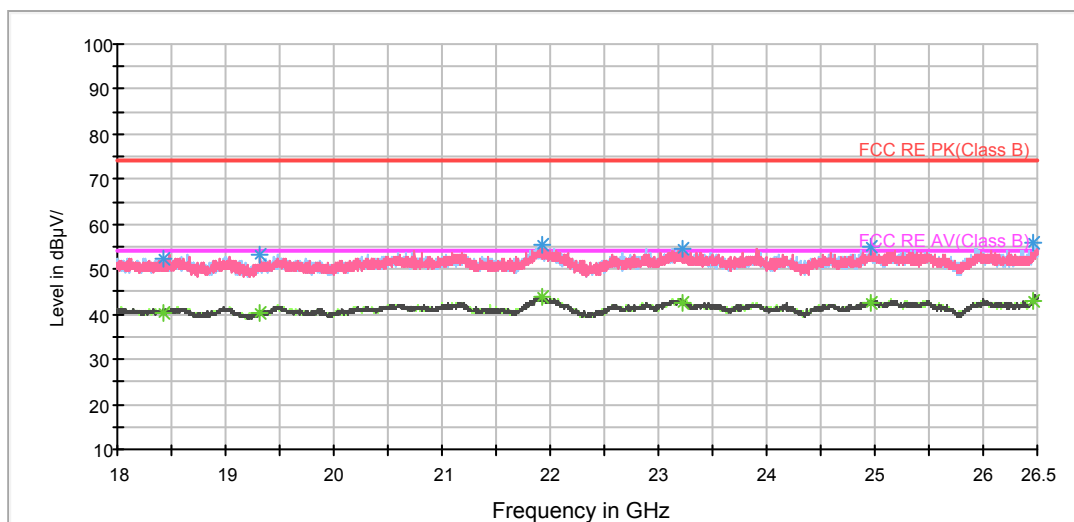
# Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



# Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



# Radiates Emission from 18GHz to 26.5GHz



## 802.11b CH6

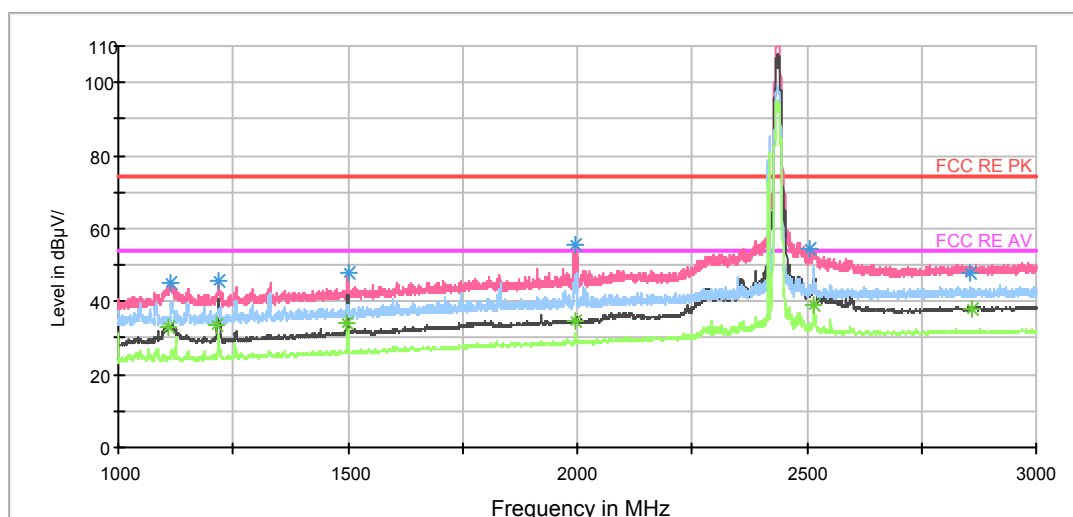
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1115.250000     | 45.3          | 100.0       | V            | 0.0           | 53.9                   | -8.6                | 28.7        | 74             |
| 1218.500000     | 45.4          | 100.0       | V            | 229.0         | 53.5                   | -8.1                | 28.6        | 74             |
| 1500.000000     | 47.9          | 100.0       | V            | 0.0           | 54.3                   | -6.4                | 26.1        | 74             |
| 1995.250000     | 55.4          | 100.0       | V            | 298.0         | 59.0                   | -3.6                | 18.6        | 74             |
| 2506.250000     | 54.2          | 100.0       | V            | 250.0         | 55.1                   | -0.9                | 19.8        | 74             |
| 2856.000000     | 48.0          | 100.0       | V            | 53.0          | 48.5                   | -0.5                | 26.0        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1110.750000     | 33.2             | 100.0       | V            | 0.0           | 41.8                   | -8.6                | 20.8        | 54             |
| 1215.500000     | 33.5             | 100.0       | V            | 0.0           | 41.6                   | -8.1                | 20.5        | 54             |
| 1499.000000     | 34.0             | 100.0       | V            | 0.0           | 40.4                   | -6.4                | 20.0        | 54             |
| 1994.250000     | 34.7             | 100.0       | V            | 298.0         | 38.3                   | -3.6                | 19.3        | 54             |
| 2515.500000     | 39.3             | 100.0       | H            | 161.0         | 40.2                   | -0.9                | 14.7        | 54             |
| 2859.000000     | 37.9             | 100.0       | V            | 357.0         | 38.3                   | -0.4                | 16.1        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

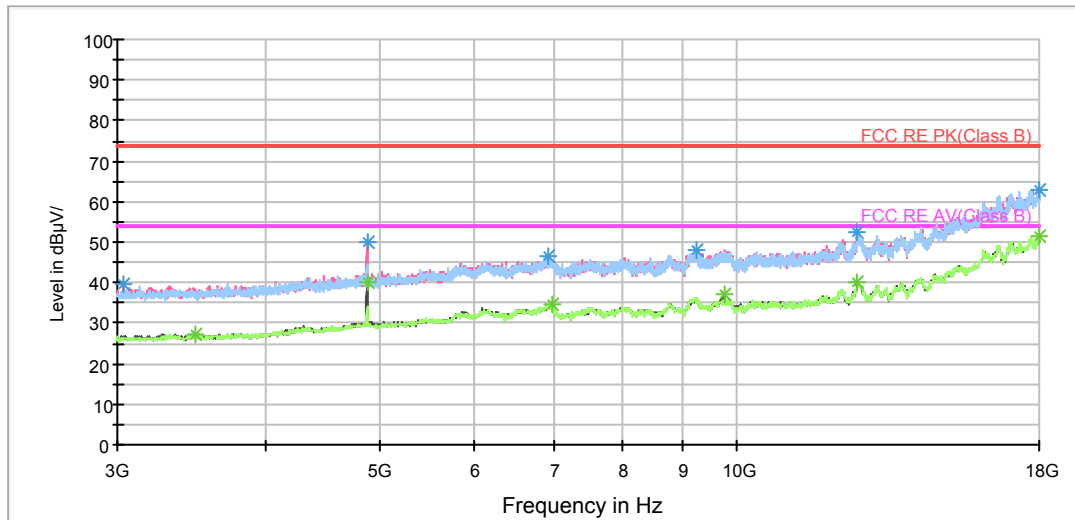
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

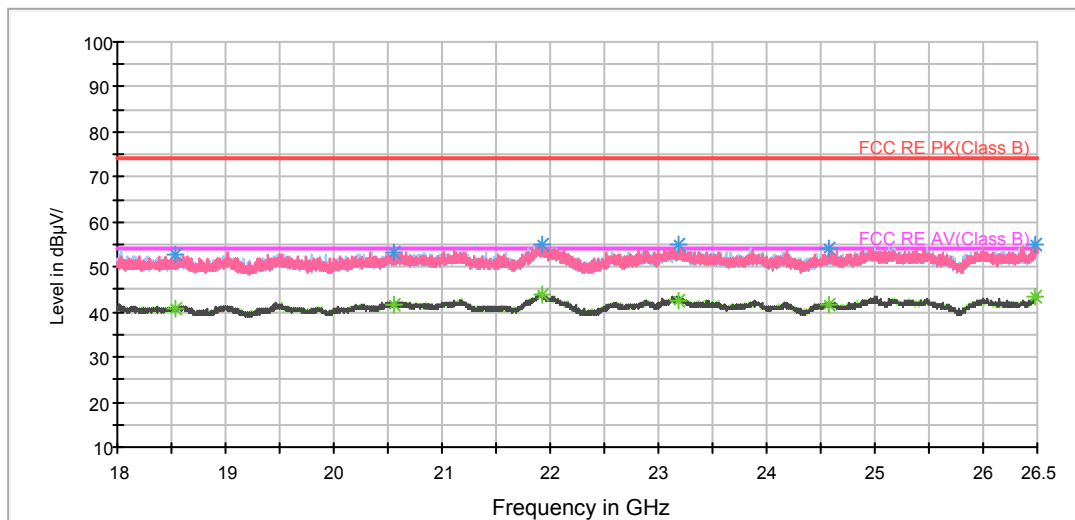
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11b CH11

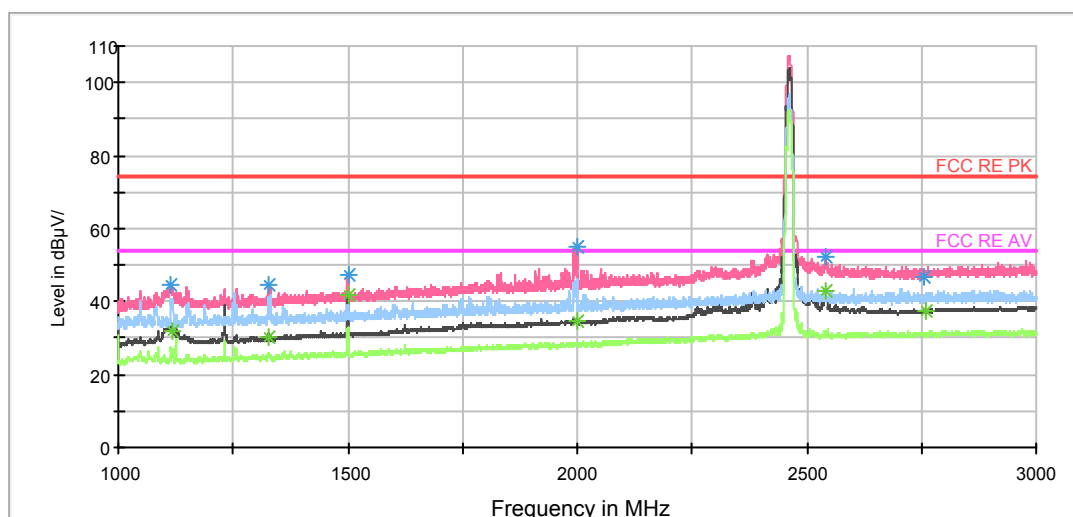
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1115.250000     | 44.5          | 100.0       | V            | 359.0         | 53.1                   | -8.6                | 29.5        | 74             |
| 1327.750000     | 44.7          | 100.0       | V            | 292.0         | 52.2                   | -7.5                | 29.3        | 74             |
| 1500.000000     | 47.1          | 100.0       | V            | 359.0         | 53.5                   | -6.4                | 26.9        | 74             |
| 1999.750000     | 54.9          | 100.0       | V            | 357.0         | 58.5                   | -3.6                | 19.1        | 74             |
| 2540.000000     | 52.1          | 100.0       | V            | 304.0         | 53.0                   | -0.9                | 21.9        | 74             |
| 2755.500000     | 46.9          | 100.0       | V            | 359.0         | 47.5                   | -0.6                | 27.1        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1119.250000     | 32.0             | 100.0       | V            | 359.0         | 40.6                   | -8.6                | 22.0        | 54             |
| 1327.750000     | 30.2             | 100.0       | V            | 292.0         | 37.7                   | -7.5                | 23.8        | 54             |
| 1500.000000     | 41.8             | 100.0       | V            | 359.0         | 48.2                   | -6.4                | 12.2        | 54             |
| 1999.500000     | 34.9             | 100.0       | V            | 0.0           | 38.5                   | -3.6                | 19.1        | 54             |
| 2540.000000     | 43.0             | 100.0       | V            | 304.0         | 43.9                   | -0.9                | 11.0        | 54             |
| 2758.500000     | 37.3             | 100.0       | V            | 316.0         | 37.9                   | -0.6                | 16.7        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

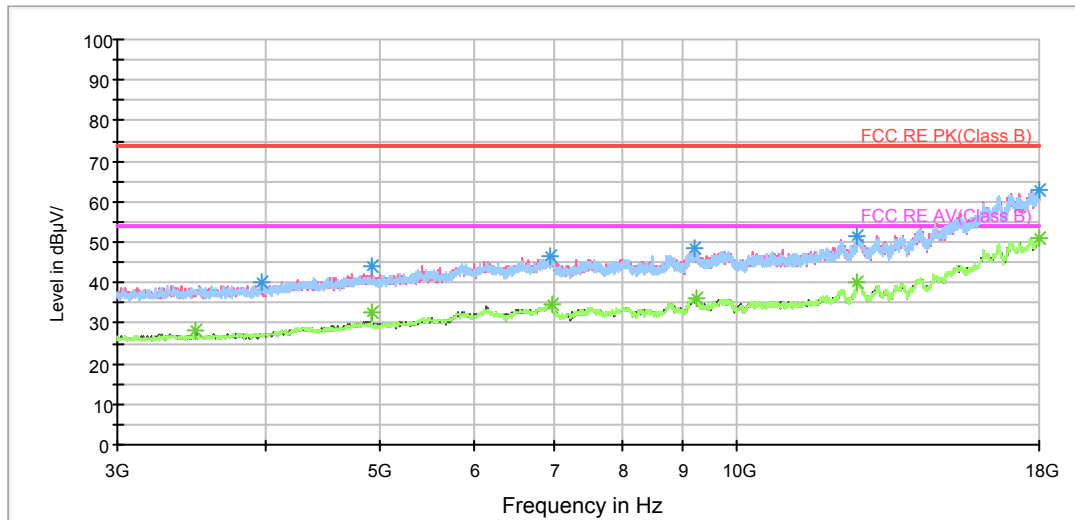
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

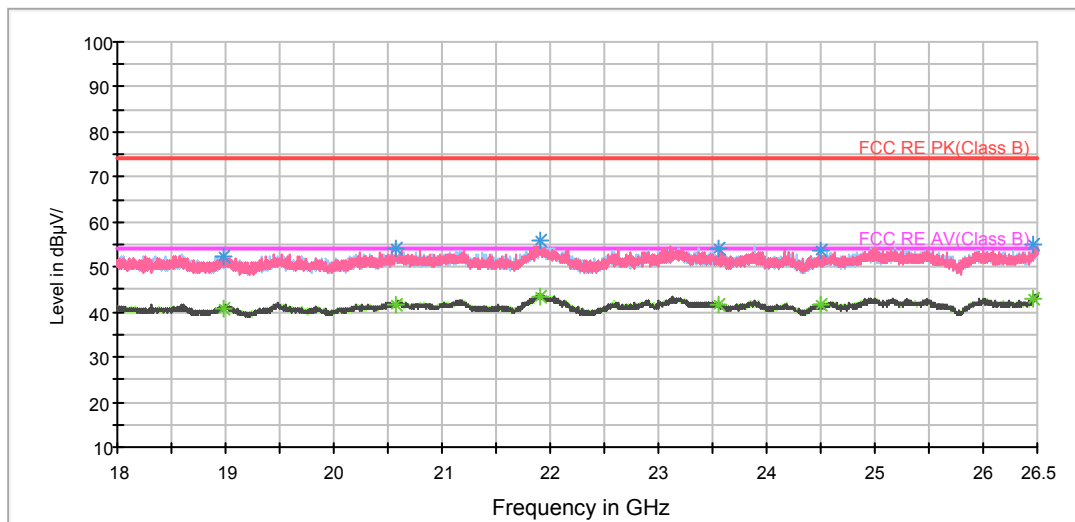
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11g CH1

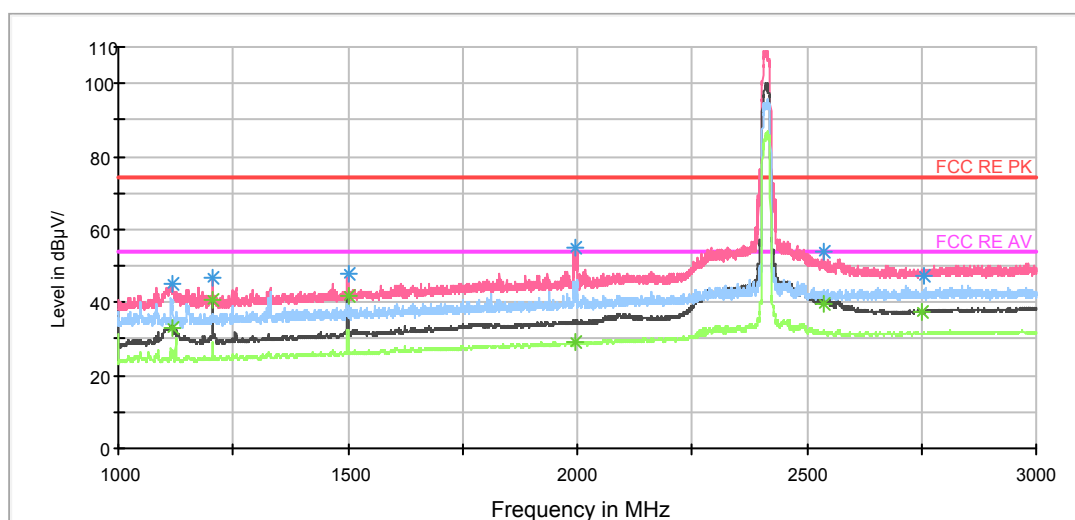
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1118.250000     | 45.3          | 100.0       | V            | 0.0           | 53.9                   | -8.6                | 28.7        | 74             |
| 1205.750000     | 46.8          | 100.0       | V            | 230.0         | 54.9                   | -8.1                | 27.2        | 74             |
| 1500.250000     | 47.8          | 100.0       | V            | 0.0           | 54.2                   | -6.4                | 26.2        | 74             |
| 1993.750000     | 54.9          | 100.0       | V            | 359.0         | 58.5                   | -3.6                | 19.1        | 74             |
| 2535.500000     | 53.8          | 100.0       | V            | 251.0         | 54.7                   | -0.9                | 20.2        | 74             |
| 2753.750000     | 47.1          | 100.0       | V            | 251.0         | 47.7                   | -0.6                | 26.9        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1118.000000     | 33.0             | 100.0       | V            | 0.0           | 41.6                   | -8.6                | 21.0        | 54             |
| 1205.750000     | 40.6             | 100.0       | V            | 230.0         | 48.7                   | -8.1                | 13.4        | 54             |
| 1500.000000     | 41.8             | 100.0       | V            | 0.0           | 48.2                   | -6.4                | 12.2        | 54             |
| 1994.000000     | 29.0             | 100.0       | H            | 98.0          | 32.6                   | -3.6                | 25.0        | 54             |
| 2536.000000     | 39.8             | 100.0       | V            | 251.0         | 40.7                   | -0.9                | 14.2        | 54             |
| 2752.250000     | 37.3             | 100.0       | V            | 353.0         | 37.9                   | -0.6                | 16.7        | 54             |

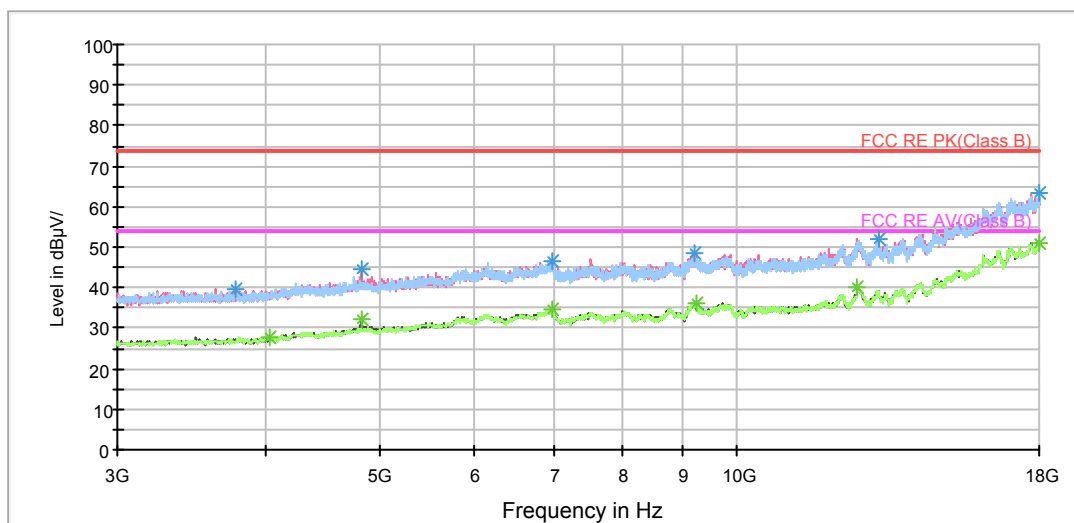
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B



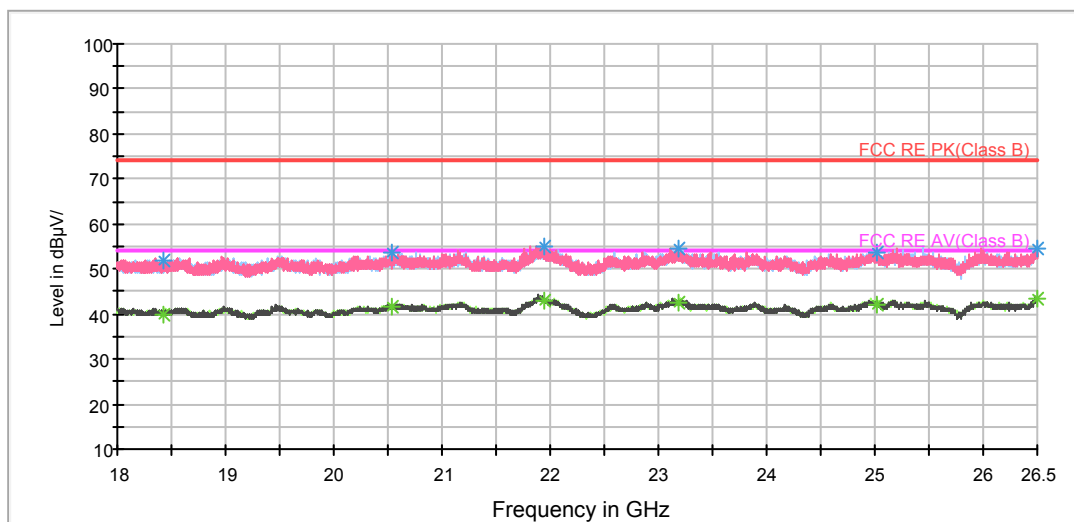
Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11g CH6

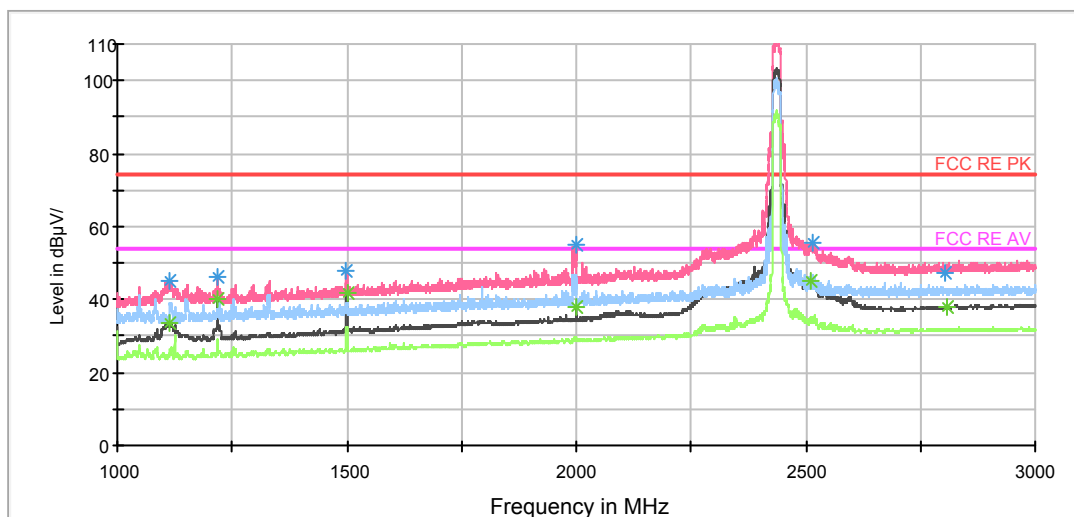
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1113.250000     | 45.1          | 100.0       | V            | 0.0           | 53.7                   | -8.6                | 28.9        | 74             |
| 1218.000000     | 46.3          | 100.0       | V            | 235.0         | 54.4                   | -8.1                | 27.7        | 74             |
| 1499.750000     | 47.6          | 100.0       | V            | 0.0           | 54.0                   | -6.4                | 26.4        | 74             |
| 1999.500000     | 54.8          | 100.0       | V            | 295.0         | 58.4                   | -3.6                | 19.2        | 74             |
| 2514.500000     | 55.4          | 100.0       | V            | 245.0         | 56.3                   | -0.9                | 18.6        | 74             |
| 2805.500000     | 47.5          | 100.0       | V            | 325.0         | 48.1                   | -0.6                | 26.5        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1114.500000     | 33.4             | 100.0       | V            | 0.0           | 42.0                   | -8.6                | 20.6        | 54             |
| 1218.500000     | 40.3             | 100.0       | V            | 354.0         | 48.4                   | -8.1                | 13.7        | 54             |
| 1500.000000     | 41.8             | 100.0       | V            | 0.0           | 48.2                   | -6.4                | 12.2        | 54             |
| 1999.250000     | 37.7             | 100.0       | V            | 295.0         | 41.3                   | -3.6                | 16.3        | 54             |
| 2511.000000     | 45.0             | 100.0       | V            | 245.0         | 45.9                   | -0.9                | 9.0         | 54             |
| 2808.500000     | 37.9             | 100.0       | V            | 343.0         | 38.5                   | -0.6                | 16.1        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B

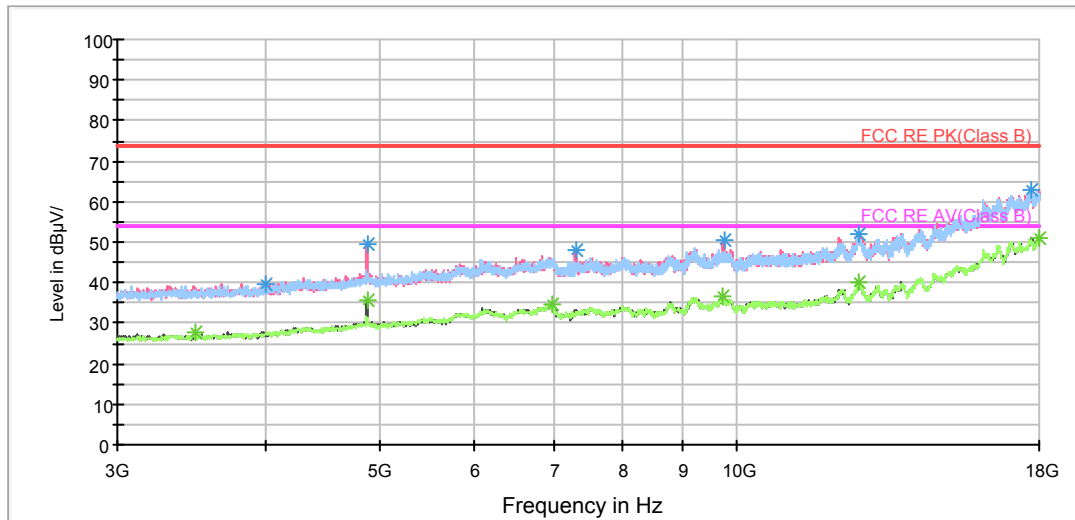


Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 3GHz

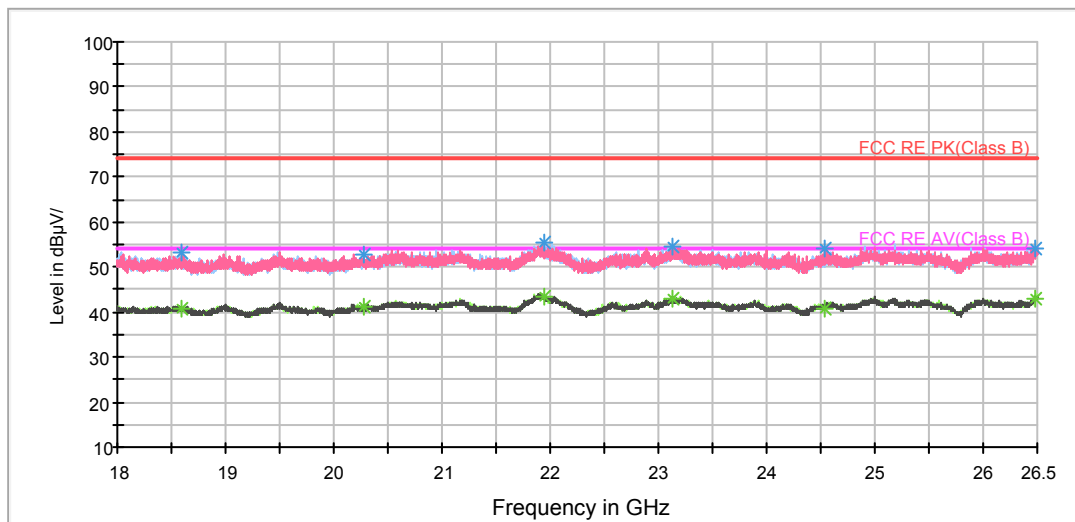


RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11g CH11

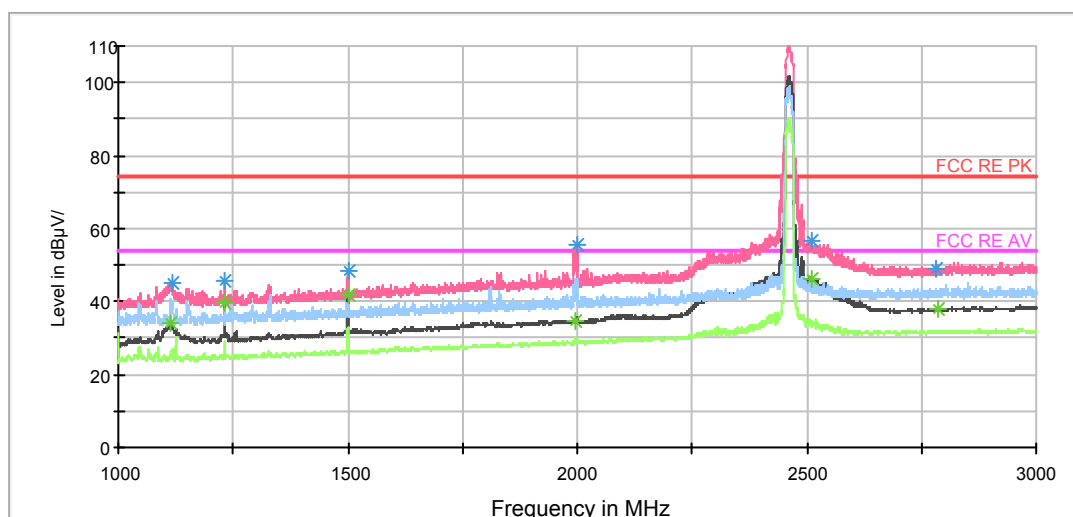
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1116.750000     | 45.0          | 100.0       | V            | 0.0           | 53.6                   | -8.6                | 29.0        | 74             |
| 1230.750000     | 45.4          | 100.0       | V            | 144.0         | 53.4                   | -8.0                | 28.6        | 74             |
| 1500.000000     | 48.3          | 100.0       | V            | 359.0         | 54.7                   | -6.4                | 25.7        | 74             |
| 1999.750000     | 55.7          | 100.0       | V            | 352.0         | 59.3                   | -3.6                | 18.3        | 74             |
| 2511.500000     | 56.6          | 100.0       | V            | 249.0         | 57.5                   | -0.9                | 17.4        | 74             |
| 2783.500000     | 48.7          | 100.0       | V            | 0.0           | 49.2                   | -0.5                | 25.3        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1114.000000     | 34.2             | 100.0       | V            | 0.0           | 42.8                   | -8.6                | 19.8        | 54             |
| 1230.750000     | 39.5             | 100.0       | V            | 144.0         | 47.5                   | -8.0                | 14.5        | 54             |
| 1500.000000     | 41.9             | 100.0       | V            | 359.0         | 48.3                   | -6.4                | 12.1        | 54             |
| 1994.250000     | 34.5             | 100.0       | V            | 290.0         | 38.1                   | -3.6                | 19.5        | 54             |
| 2508.750000     | 46.4             | 100.0       | V            | 249.0         | 47.3                   | -0.9                | 7.6         | 54             |
| 2784.750000     | 37.8             | 100.0       | V            | 239.0         | 38.3                   | -0.5                | 16.2        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

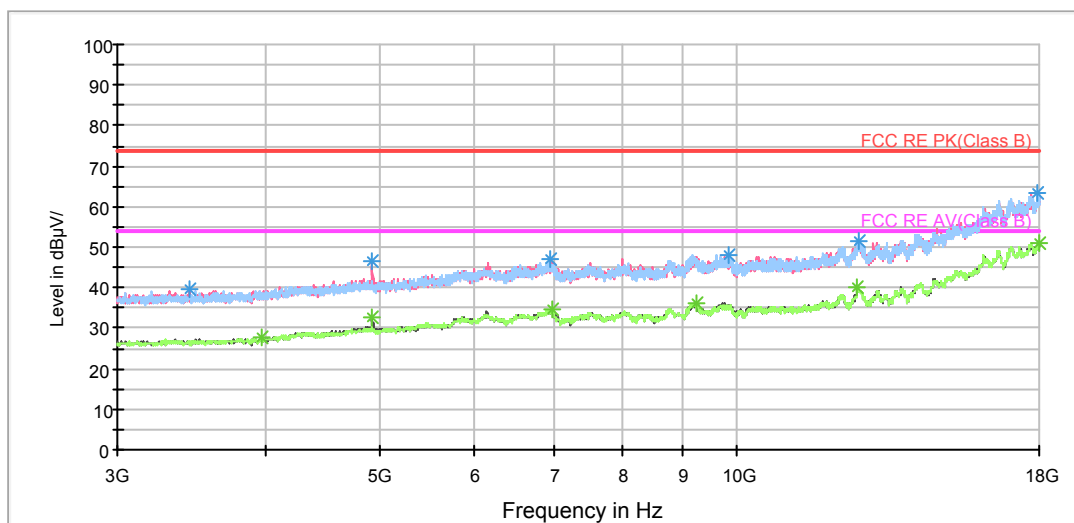
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

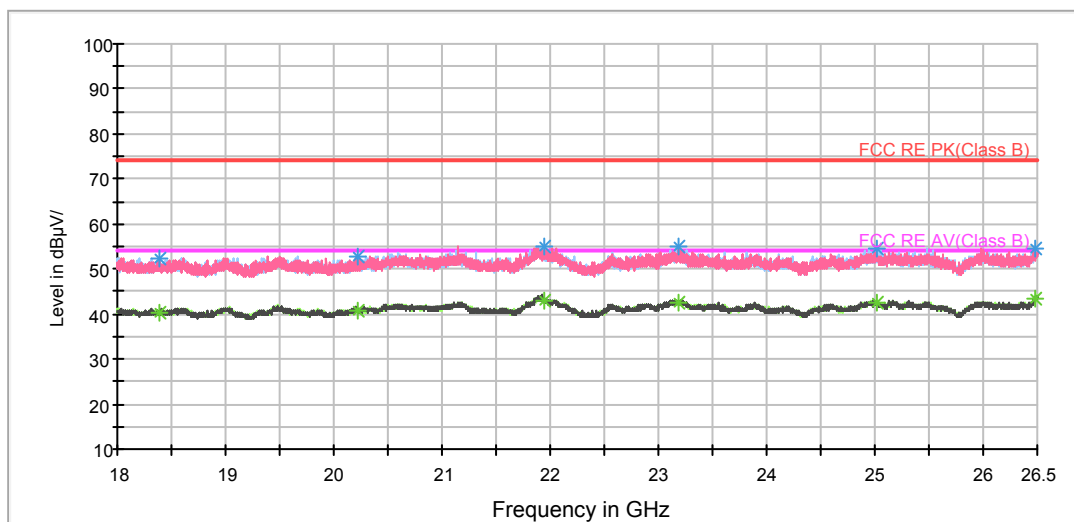
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT20) CH1

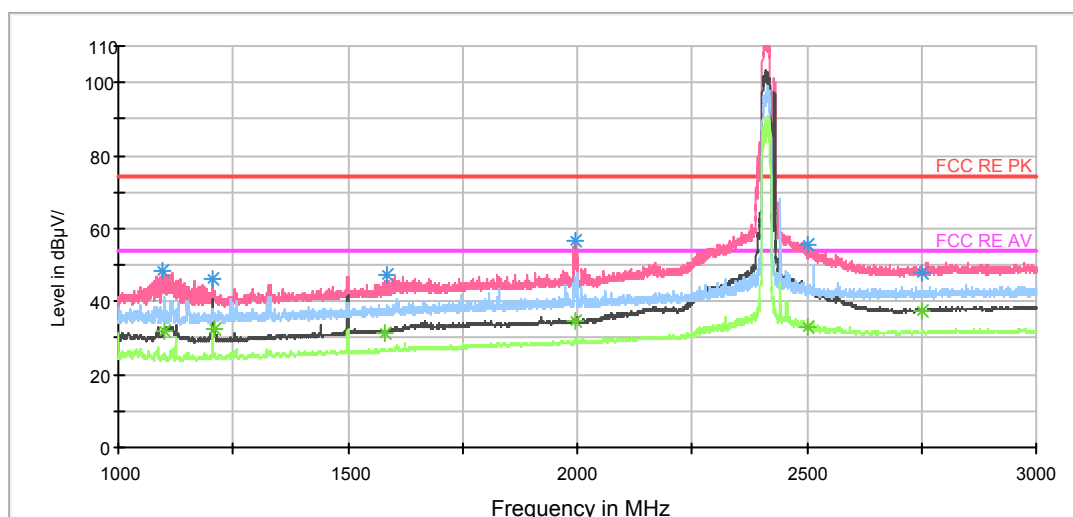
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1098.250000     | 48.2          | 100.0       | V            | 0.0           | 57.0                   | -8.8                | 25.8        | 74             |
| 1206.000000     | 46.0          | 100.0       | V            | 202.0         | 54.1                   | -8.1                | 28.0        | 74             |
| 1583.500000     | 47.1          | 100.0       | V            | 192.0         | 53.1                   | -6.0                | 26.9        | 74             |
| 1995.500000     | 56.5          | 100.0       | V            | 292.0         | 60.1                   | -3.6                | 17.5        | 74             |
| 2502.750000     | 55.5          | 100.0       | V            | 202.0         | 56.4                   | -0.9                | 18.5        | 74             |
| 2749.500000     | 48.0          | 100.0       | V            | 323.0         | 48.6                   | -0.6                | 26.0        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1101.500000     | 31.9             | 100.0       | V            | 0.0           | 40.6                   | -8.7                | 22.1        | 54             |
| 1208.250000     | 32.4             | 100.0       | V            | 233.0         | 40.5                   | -8.1                | 21.6        | 54             |
| 1582.250000     | 31.5             | 100.0       | V            | 202.0         | 37.5                   | -6.0                | 22.5        | 54             |
| 1996.500000     | 34.9             | 100.0       | V            | 302.0         | 38.5                   | -3.6                | 19.1        | 54             |
| 2501.250000     | 32.8             | 100.0       | H            | 43.0          | 33.7                   | -0.9                | 21.2        | 54             |
| 2752.250000     | 37.3             | 100.0       | V            | 283.0         | 37.9                   | -0.6                | 16.7        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

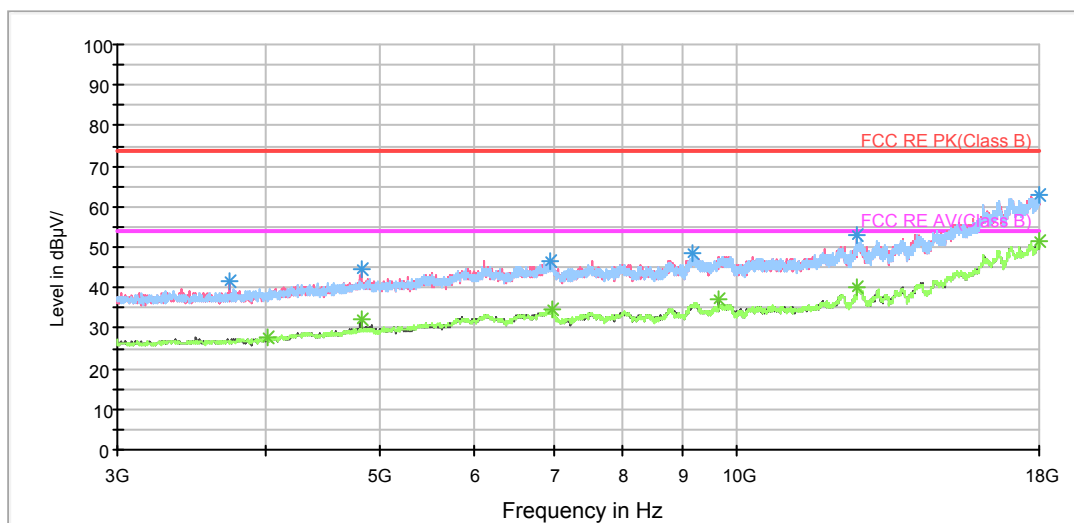
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

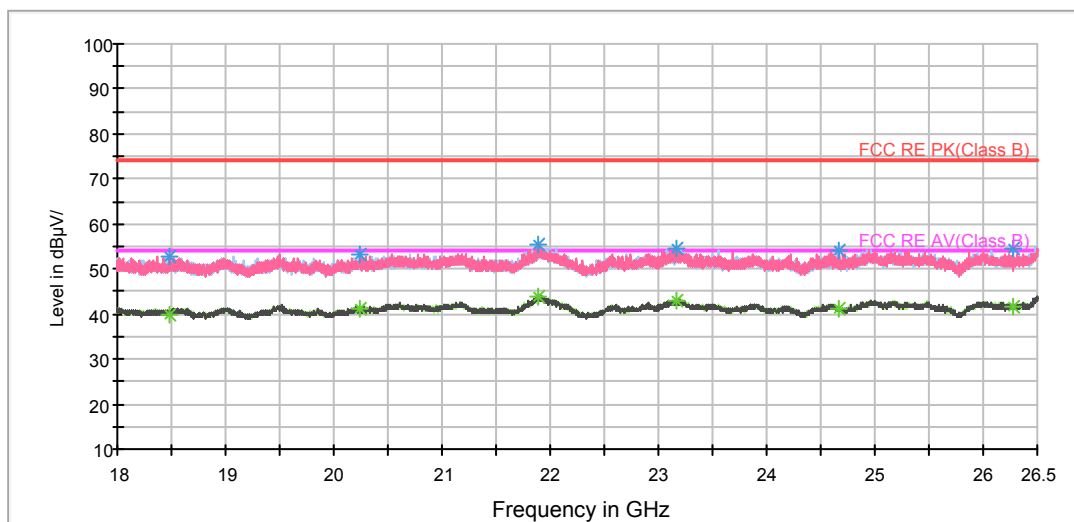
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT20) CH6

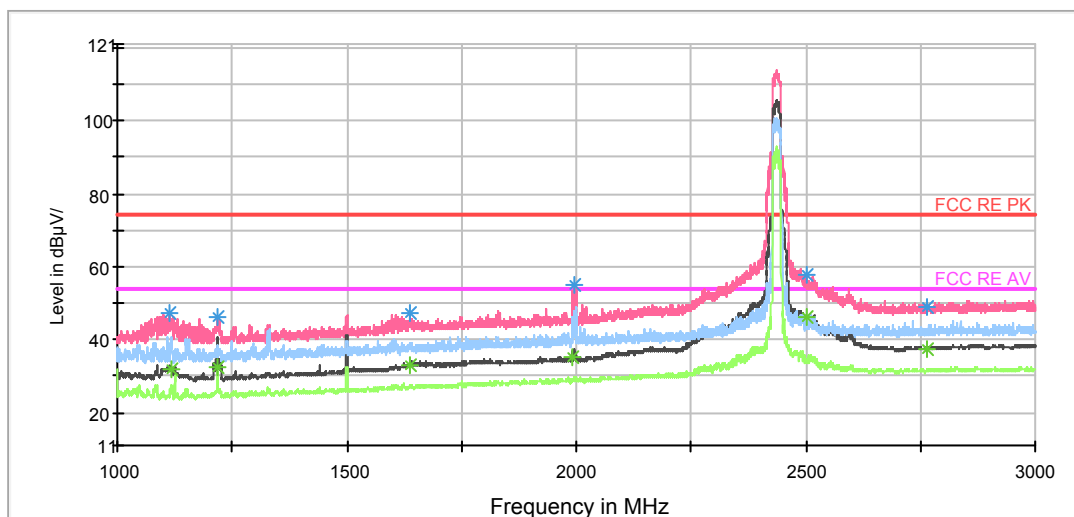
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1114.250000     | 47.3          | 100.0       | V            | 0.0           | 55.9                   | -8.6                | 26.7        | 74             |
| 1218.500000     | 46.4          | 100.0       | V            | 358.0         | 54.5                   | -8.1                | 27.6        | 74             |
| 1636.500000     | 47.1          | 100.0       | V            | 180.0         | 52.8                   | -5.7                | 26.9        | 74             |
| 1996.750000     | 54.9          | 100.0       | V            | 291.0         | 58.5                   | -3.6                | 19.1        | 74             |
| 2500.500000     | 57.6          | 100.0       | V            | 252.0         | 58.5                   | -0.9                | 16.4        | 74             |
| 2763.750000     | 49.1          | 100.0       | V            | 310.0         | 49.7                   | -0.6                | 24.9        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| ---             | ---              | ---         |              | ---           | ---                    | ---                 | ---         | 54             |
| 1117.500000     | 32.0             | 100.0       | V            | 356.0         | 40.6                   | -8.6                | 22.0        | 54             |
| 1220.000000     | 32.7             | 100.0       | V            | 149.0         | 40.8                   | -8.1                | 21.3        | 54             |
| 1639.500000     | 32.9             | 100.0       | V            | 212.0         | 38.6                   | -5.7                | 21.1        | 54             |
| 1992.750000     | 35.4             | 100.0       | V            | 301.0         | 39.0                   | -3.6                | 18.6        | 54             |
| 2500.500000     | 46.1             | 100.0       | V            | 252.0         | 47.0                   | -0.9                | 7.9         | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

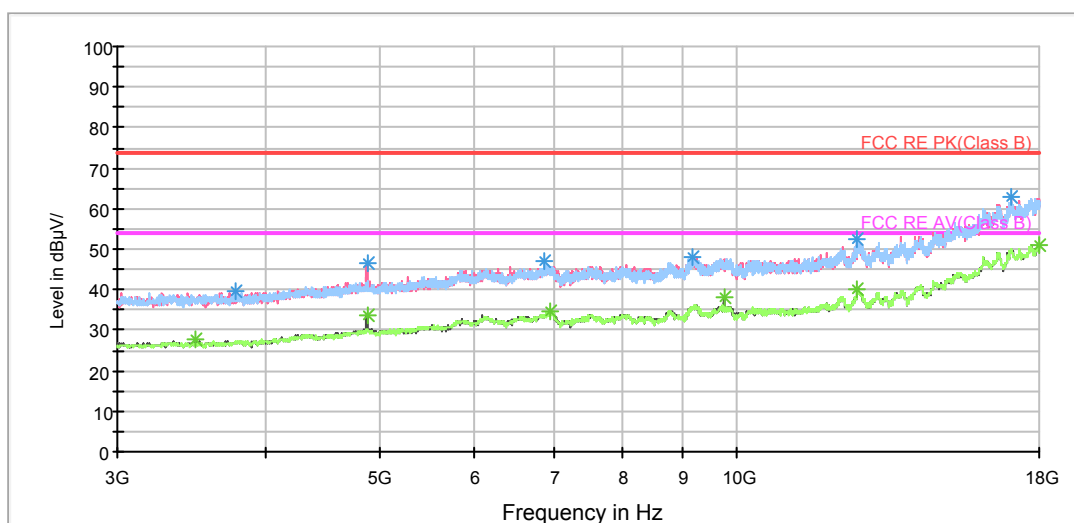
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.

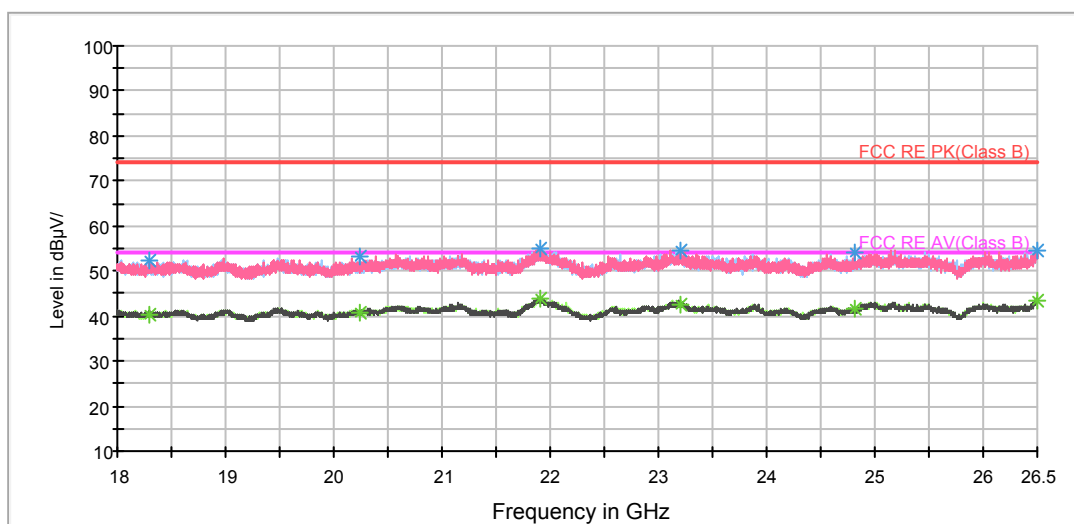
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT20) CH11

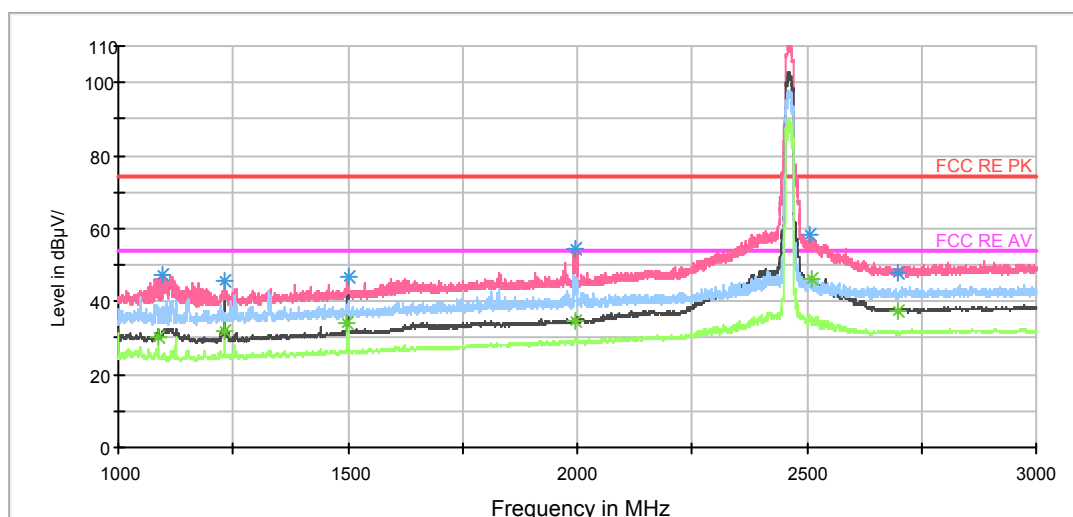
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1095.500000     | 47.5          | 30.8        | 100.0        | V             | 56.3                   | -8.8                | 26.5        | 74             |
| 1230.750000     | 45.7          | 39.9        | 100.0        | V             | 53.7                   | -8.0                | 28.3        | 74             |
| 1500.000000     | 47.0          | 41.7        | 100.0        | V             | 53.4                   | -6.4                | 27.0        | 74             |
| 1994.000000     | 54.3          | 34.8        | 100.0        | V             | 57.9                   | -3.6                | 19.7        | 74             |
| 2505.750000     | 58.2          | 46.4        | 100.0        | V             | 59.1                   | -0.9                | 15.8        | 74             |
| 2696.750000     | 47.7          | 37.4        | 100.0        | V             | 48.5                   | -0.8                | 26.3        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1095.500000     | 30.8             | 30.8        | 100.0        | V             | 39.6                   | -8.8                | 23.2        | 54             |
| 1230.750000     | 39.9             | 39.9        | 100.0        | V             | 47.9                   | -8.0                | 14.1        | 54             |
| 1500.000000     | 41.7             | 41.7        | 100.0        | V             | 48.1                   | -6.4                | 12.3        | 54             |
| 1994.000000     | 34.8             | 34.8        | 100.0        | V             | 38.4                   | -3.6                | 19.2        | 54             |
| 2505.750000     | 46.4             | 46.4        | 100.0        | V             | 47.3                   | -0.9                | 7.6         | 54             |
| 2696.750000     | 37.4             | 37.4        | 100.0        | V             | 38.2                   | -0.8                | 16.6        | 54             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

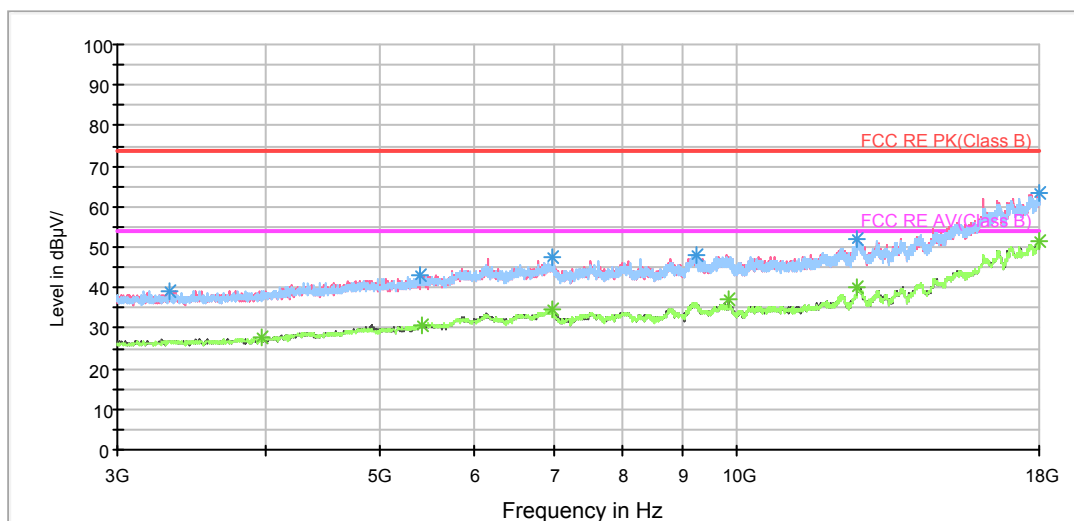
FCC RE 1G-18GHz PK+AV Class B



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 3GHz

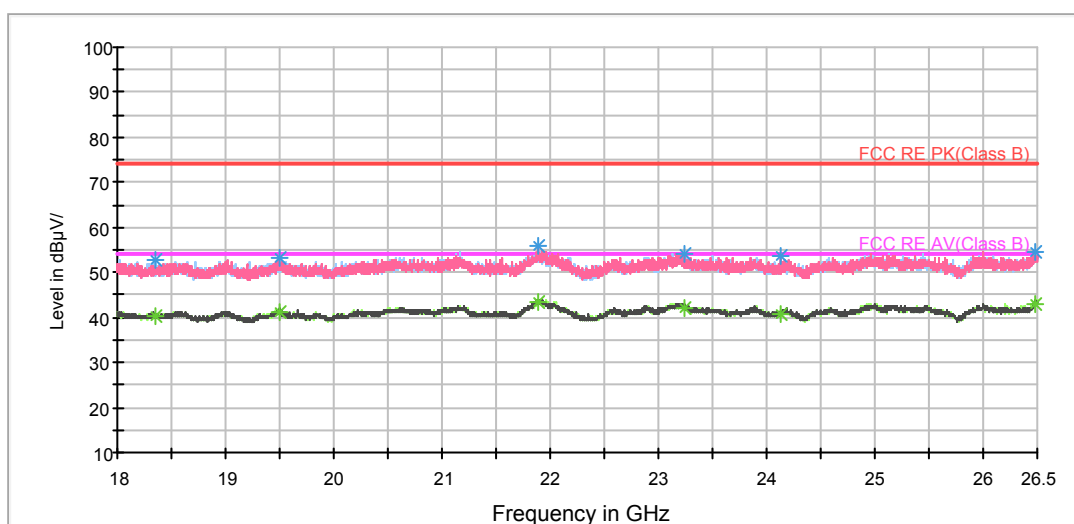


RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT40) CH3

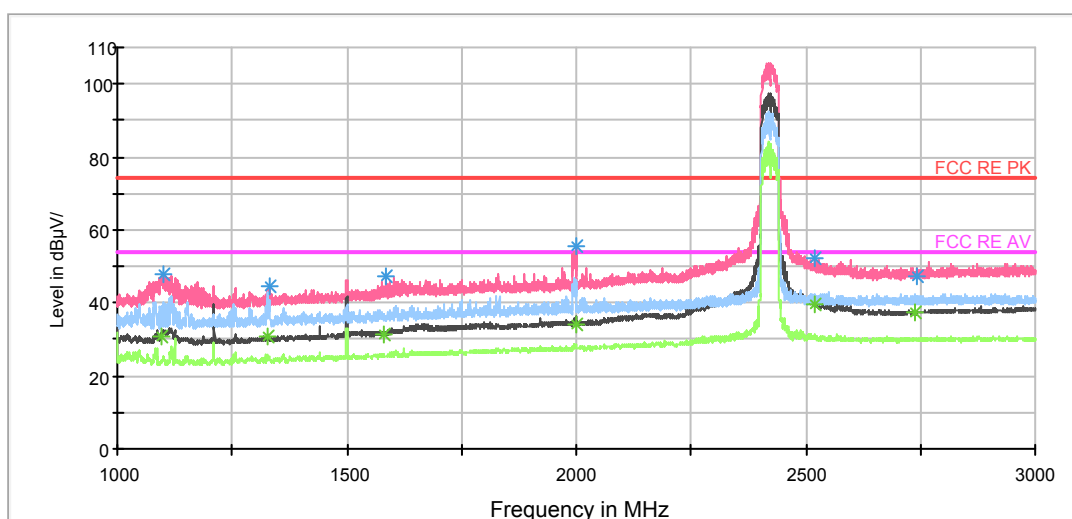
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1102.500000     | 48.0          | 100.0       | V            | 0.0           | 56.7                   | -8.7                | 26.0        | 74             |
| 1329.750000     | 44.7          | 100.0       | V            | 326.0         | 52.2                   | -7.5                | 29.3        | 74             |
| 1585.250000     | 47.2          | 100.0       | V            | 276.0         | 53.1                   | -5.9                | 26.8        | 74             |
| 1998.000000     | 55.5          | 100.0       | V            | 296.0         | 59.1                   | -3.6                | 18.5        | 74             |
| 2520.000000     | 52.2          | 100.0       | V            | 246.0         | 53.1                   | -0.9                | 21.8        | 74             |
| 2741.250000     | 47.1          | 100.0       | V            | 0.0           | 47.7                   | -0.6                | 26.9        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1097.250000     | 30.9             | 100.0       | V            | 0.0           | 39.7                   | -8.8                | 23.1        | 54             |
| 1325.750000     | 30.9             | 100.0       | V            | 326.0         | 38.4                   | -7.5                | 23.1        | 54             |
| 1582.250000     | 31.5             | 100.0       | V            | 202.0         | 37.5                   | -6.0                | 22.5        | 54             |
| 1998.250000     | 34.4             | 100.0       | V            | 296.0         | 38.0                   | -3.6                | 19.6        | 54             |
| 2518.750000     | 39.6             | 100.0       | V            | 0.0           | 40.5                   | -0.9                | 14.4        | 54             |
| 2739.500000     | 37.3             | 100.0       | V            | 276.0         | 37.9                   | -0.6                | 16.7        | 54             |

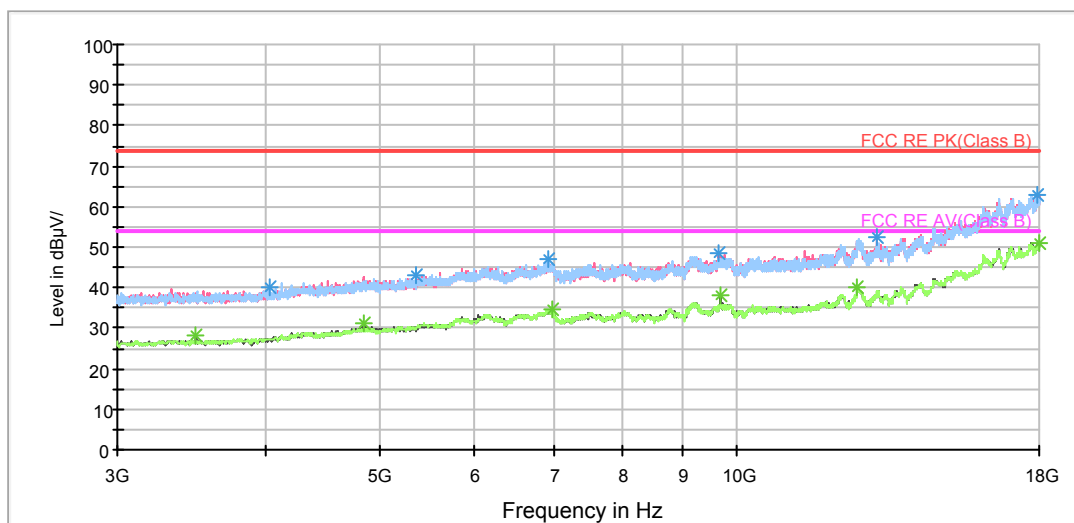
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B



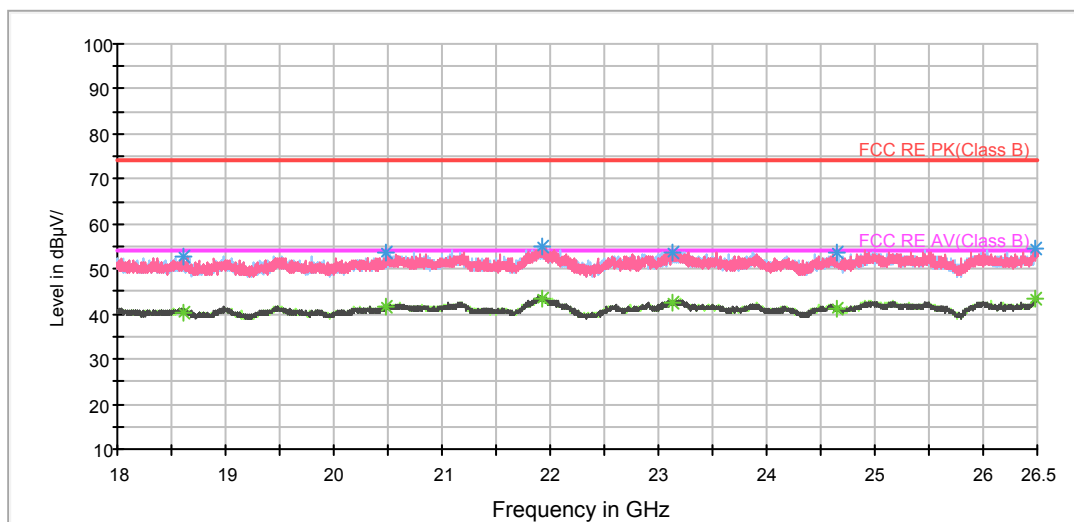
Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT40) CH6

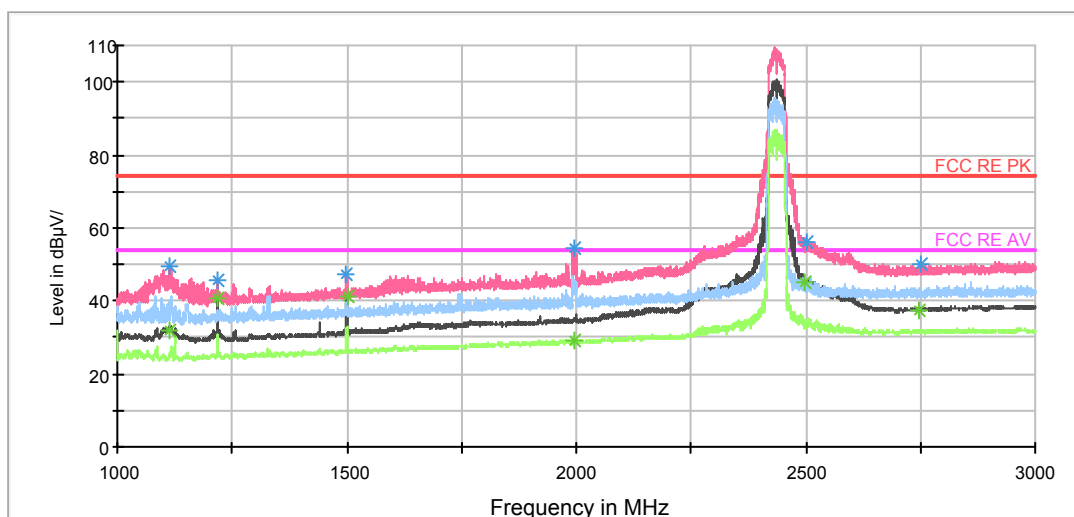
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1114.750000     | 49.3          | 100.0       | V            | 0.0           | 57.9                   | -8.6                | 24.7        | 74             |
| 1218.250000     | 45.4          | 100.0       | V            | 0.0           | 53.5                   | -8.1                | 28.6        | 74             |
| 1499.500000     | 47.4          | 100.0       | V            | 0.0           | 53.8                   | -6.4                | 26.6        | 74             |
| 1993.750000     | 54.6          | 100.0       | V            | 294.0         | 58.2                   | -3.6                | 19.4        | 74             |
| 2500.000000     | 56.1          | 100.0       | V            | 246.0         | 57.0                   | -0.9                | 17.9        | 74             |
| 2753.250000     | 50.3          | 100.0       | V            | 0.0           | 50.9                   | -0.6                | 23.7        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1112.250000     | 32.1             | 100.0       | V            | 0.0           | 40.7                   | -8.6                | 21.9        | 54             |
| 1218.500000     | 40.9             | 100.0       | V            | 353.0         | 49.0                   | -8.1                | 13.1        | 54             |
| 1500.000000     | 41.3             | 100.0       | V            | 0.0           | 47.7                   | -6.4                | 12.7        | 54             |
| 1993.750000     | 29.1             | 100.0       | H            | 156.0         | 32.7                   | -3.6                | 24.9        | 54             |
| 2499.750000     | 44.9             | 100.0       | V            | 246.0         | 45.8                   | -0.9                | 9.1         | 54             |
| 2746.500000     | 37.4             | 100.0       | V            | 215.0         | 38.0                   | -0.6                | 16.6        | 54             |

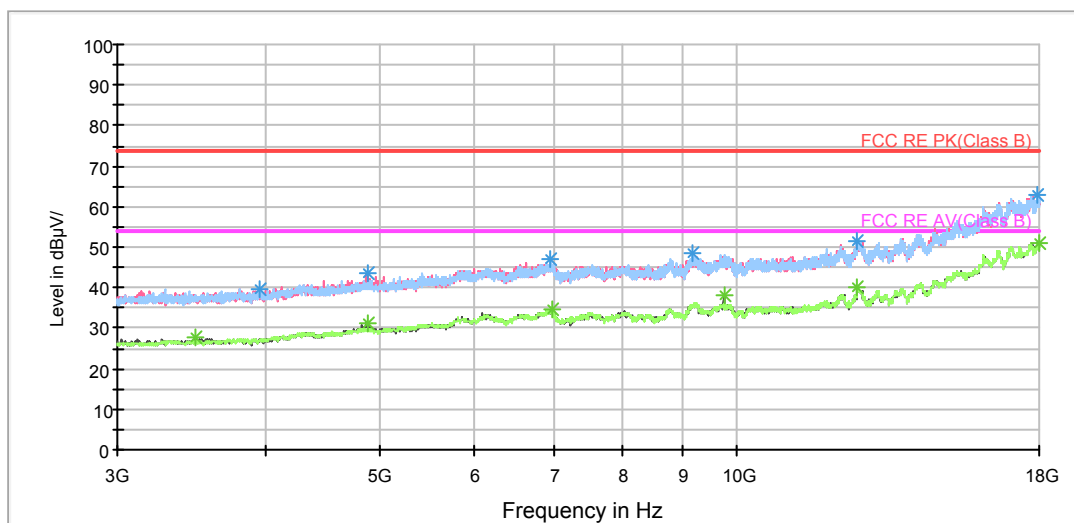
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B



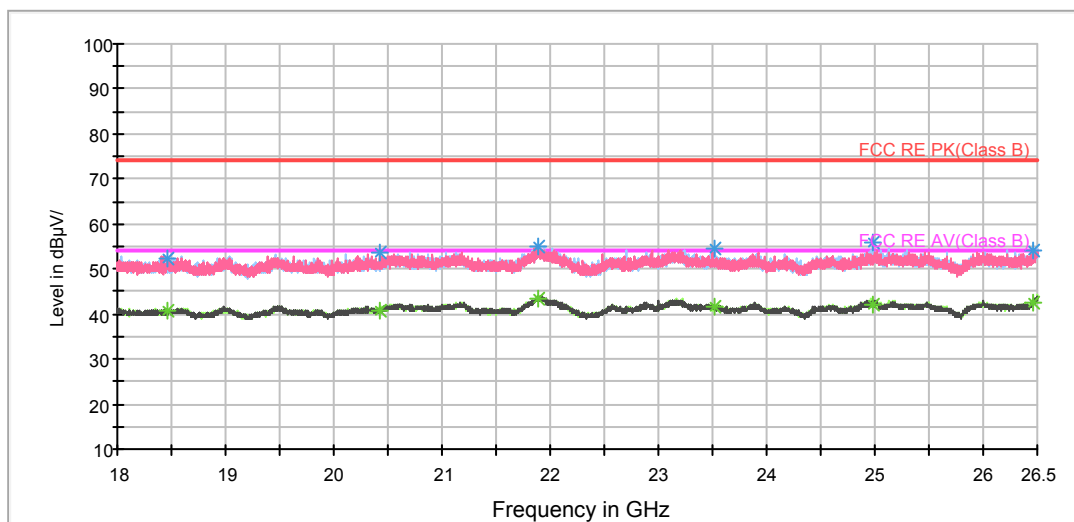
Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz



## 802.11n (HT40) CH9

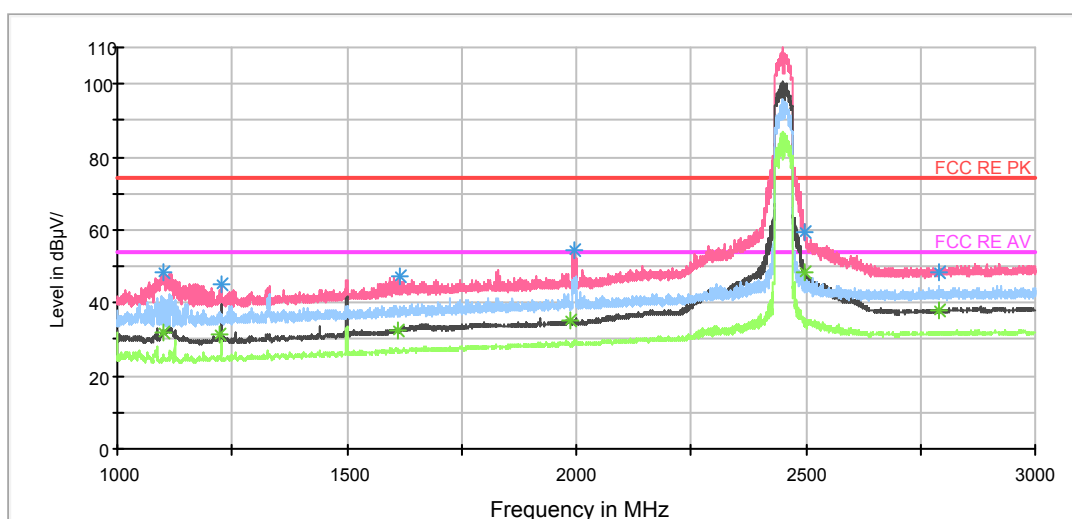
| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1101.750000     | 48.6          | 100.0       | V            | 0.0           | 57.3                   | -8.7                | 25.4        | 74             |
| 1226.250000     | 45.2          | 100.0       | V            | 206.0         | 53.3                   | -8.1                | 28.8        | 74             |
| 1615.250000     | 47.0          | 100.0       | V            | 358.0         | 52.7                   | -5.7                | 27.0        | 74             |
| 1993.500000     | 54.4          | 100.0       | V            | 302.0         | 58.0                   | -3.6                | 19.6        | 74             |
| 2498.750000     | 59.5          | 100.0       | V            | 246.0         | 60.4                   | -0.9                | 14.5        | 74             |
| 2790.500000     | 48.6          | 100.0       | V            | 0.0           | 49.1                   | -0.5                | 25.4        | 74             |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Reading value (dBuV/m) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|------------------|-------------|--------------|---------------|------------------------|---------------------|-------------|----------------|
| 1099.250000     | 32.0             | 100.0       | V            | 0.0           | 40.8                   | -8.8                | 22.0        | 54             |
| 1223.000000     | 31.1             | 100.0       | V            | 236.0         | 39.2                   | -8.1                | 22.9        | 54             |
| 1610.750000     | 32.3             | 100.0       | V            | 184.0         | 38.1                   | -5.8                | 21.7        | 54             |
| 1989.000000     | 35.1             | 100.0       | V            | 195.0         | 38.7                   | -3.6                | 18.9        | 54             |
| 2497.750000     | 48.6             | 100.0       | V            | 246.0         | 49.5                   | -0.9                | 5.4         | 54             |
| 2789.500000     | 37.9             | 100.0       | V            | 216.0         | 38.4                   | -0.5                | 16.1        | 54             |

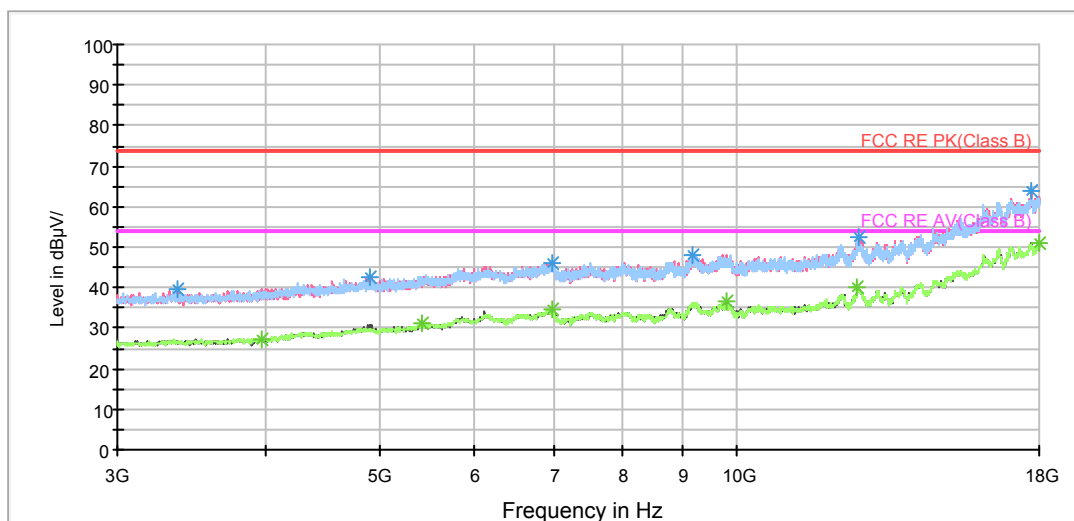
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

FCC RE 1G-18GHz PK+AV Class B



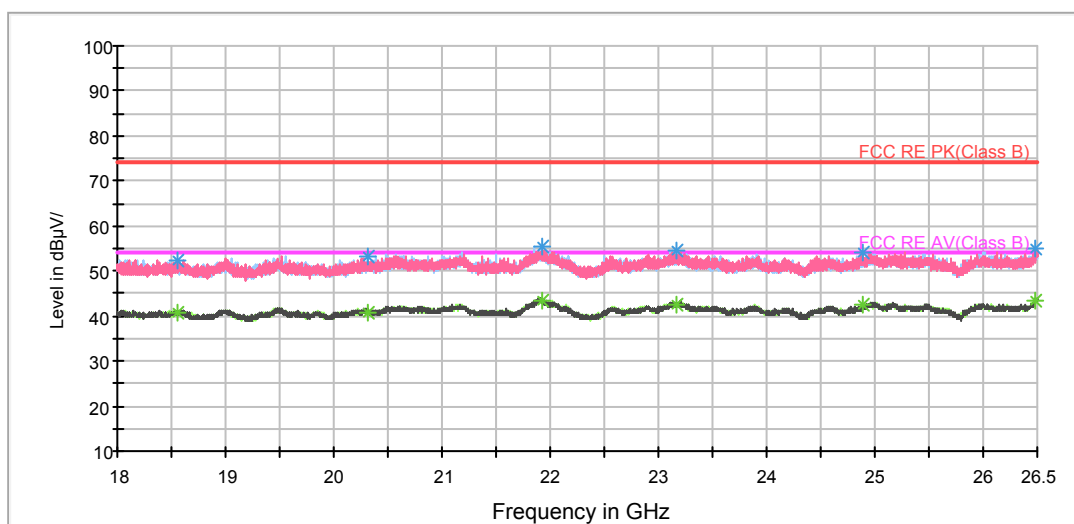
Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 3GHz

RE 3-18GHz PK+AV



Radiates Emission from 3GHz to 18GHz

BELL\_RE 18-26.5GHz PK+AV



Radiates Emission from 18GHz to 26.5GHz

## 5.8. Conducted Emission

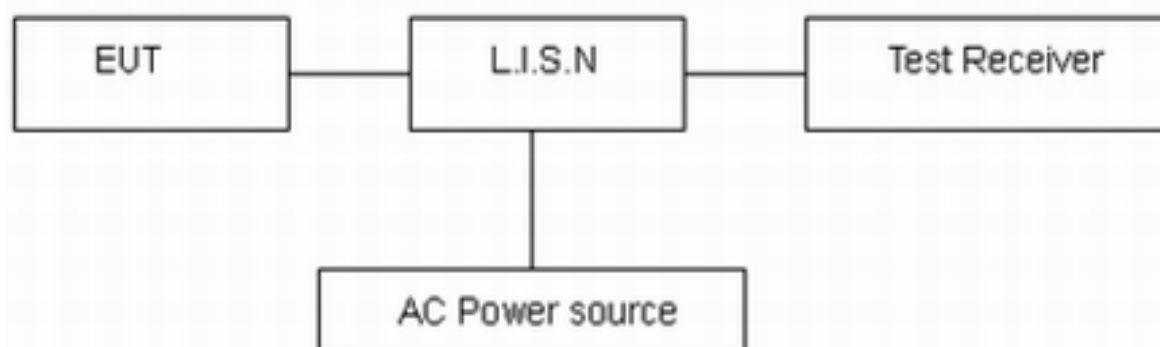
### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.10-2013. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.  
The test is in transmitting mode.

### Test Setup



Note: AC Power source is used to change the voltage 110V/60Hz.

### Limits

| Frequency<br>(MHz)                                | Conducted Limits(dBμV) |            |
|---|------------------------|------------|
|   | Quasi-peak             | Average    |
| 0.15 - 0.5  | 66 to 56 *             | 56 to 46 * |
| 0.5 - 5   | 56                     | 46         |
| 5 - 30  | 60                     | 50         |
| *: Decreases with the logarithm of the frequency. |                        |            |

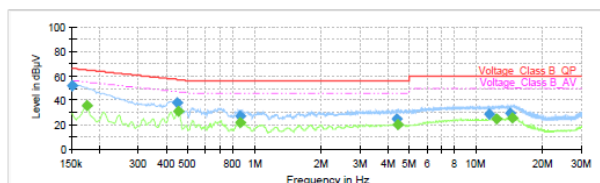
### Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ ,  $U = 2.69$  dB.

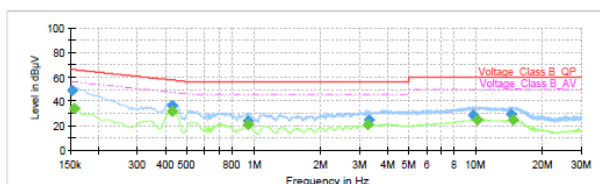


**Test Results:**

Following plots, Blue trace uses the peak detection and Green trace uses the average detection. During the test, the Conducted Emission was performed in all modes with all channels, 802.11b, Channel 11 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

**802.11b, Channel No.: 11****L Line**

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.150000        | 51.81            | ---            | 66.00        | 14.19       | 1000.0          | 9.000           | L1   | ON     | 19.1       |
| 0.174750        | ---              | 35.85          | 54.73        | 18.88       | 1000.0          | 9.000           | L1   | ON     | 19.2       |
| 0.447000        | 37.67            | ---            | 56.93        | 19.26       | 1000.0          | 9.000           | L1   | ON     | 19.2       |
| 0.451500        | ---              | 31.12          | 46.85        | 15.73       | 1000.0          | 9.000           | L1   | ON     | 19.2       |
| 0.858750        | 27.46            | ---            | 56.00        | 28.54       | 1000.0          | 9.000           | L1   | ON     | 19.2       |
| 0.861000        | ---              | 21.64          | 46.00        | 24.36       | 1000.0          | 9.000           | L1   | ON     | 19.2       |
| 4.391250        | 24.67            | ---            | 56.00        | 31.33       | 1000.0          | 9.000           | L1   | ON     | 19.1       |
| 4.431750        | ---              | 19.95          | 46.00        | 26.05       | 1000.0          | 9.000           | L1   | ON     | 19.1       |
| 11.447250       | 28.68            | ---            | 60.00        | 31.32       | 1000.0          | 9.000           | L1   | ON     | 19.4       |
| 12.358500       | ---              | 24.51          | 50.00        | 25.49       | 1000.0          | 9.000           | L1   | ON     | 19.4       |
| 14.298000       | 29.77            | ---            | 60.00        | 30.23       | 1000.0          | 9.000           | L1   | ON     | 19.5       |
| 14.640000       | ---              | 25.28          | 50.00        | 24.72       | 1000.0          | 9.000           | L1   | ON     | 19.5       |

**N Line**

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|-----------------|------------------|----------------|--------------|-------------|-----------------|-----------------|------|--------|------------|
| 0.152250        | 48.62            | ---            | 65.88        | 17.26       | 1000.0          | 9.000           | N    | ON     | 19.1       |
| 0.154500        | ---              | 33.95          | 55.75        | 21.81       | 1000.0          | 9.000           | N    | ON     | 19.1       |
| 0.429000        | ---              | 31.95          | 47.27        | 15.32       | 1000.0          | 9.000           | N    | ON     | 19.2       |
| 0.429000        | 36.10            | ---            | 57.27        | 21.17       | 1000.0          | 9.000           | N    | ON     | 19.2       |
| 0.935250        | ---              | 20.56          | 46.00        | 25.44       | 1000.0          | 9.000           | N    | ON     | 19.2       |
| 0.942000        | 24.20            | ---            | 56.00        | 31.80       | 1000.0          | 9.000           | N    | ON     | 19.2       |
| 3.257250        | ---              | 20.61          | 46.00        | 25.39       | 1000.0          | 9.000           | N    | ON     | 19.1       |
| 3.304500        | 24.80            | ---            | 56.00        | 31.20       | 1000.0          | 9.000           | N    | ON     | 19.1       |
| 9.717000        | 28.85            | ---            | 60.00        | 31.15       | 1000.0          | 9.000           | N    | ON     | 19.4       |
| 10.160250       | ---              | 24.62          | 50.00        | 25.38       | 1000.0          | 9.000           | N    | ON     | 19.4       |
| 14.433000       | 29.26            | ---            | 60.00        | 30.74       | 1000.0          | 9.000           | N    | ON     | 19.5       |
| 14.790250       | ---              | 24.98          | 50.00        | 25.02       | 1000.0          | 9.000           | N    | ON     | 19.5       |



## 6. Main Test Instruments

| Name                                 | Manufacturer | Type      | Serial Number | Calibration Date | Expiration Time |
|--------------------------------------|--------------|-----------|---------------|------------------|-----------------|
| BT Base Station Simulator            | R&S          | CBT       | 100271        | 2017-05-14       | 2018-05-13      |
| Spectrum Analyzer                    | R&S          | FSV30     | 100815        | 2016-12-16       | 2017-12-15      |
| EMI Test Receiver                    | R&S          | ESCI      | 100948        | 2017-05-20       | 2018-05-19      |
| TRILOG Broadband Antenna             | Schwarzbeck  | VULB 9163 | 9163-201      | 2014-12-06       | 2017-12-05      |
| Double Ridged Waveguide Horn Antenna | R&S          | HF907     | 100126        | 2014-12-06       | 2017-12-05      |
| Loop Antenna                         | SCHWARZBECK  | FMZB1519  | 1519-047      | 2017-02-18       | 2020-02-17      |
| Standard Gain Horn                   | ETS-Lindgren | 3160-09   | 00102644      | 2015-01-30       | 2018-01-29      |
| EMI Test Receiver                    | R&S          | ESCS30    | 100138        | 2016-12-16       | 2017-12-15      |
| LISN                                 | R&S          | ENV216    | 101171        | 2016-12-16       | 2019-12-15      |
| Spectrum Analyzer                    | Agilent      | N9010A    | MY47191109    | 2017-05-20       | 2018-05-19      |
| RF Cable                             | Agilent      | SMA 15cm  | 0001          | 2017-08-04       | 2018-02-03      |

\*\*\*\*\*END OF REPORT \*\*\*\*\*

## ANNEX A: EUT Appearance and Test Setup

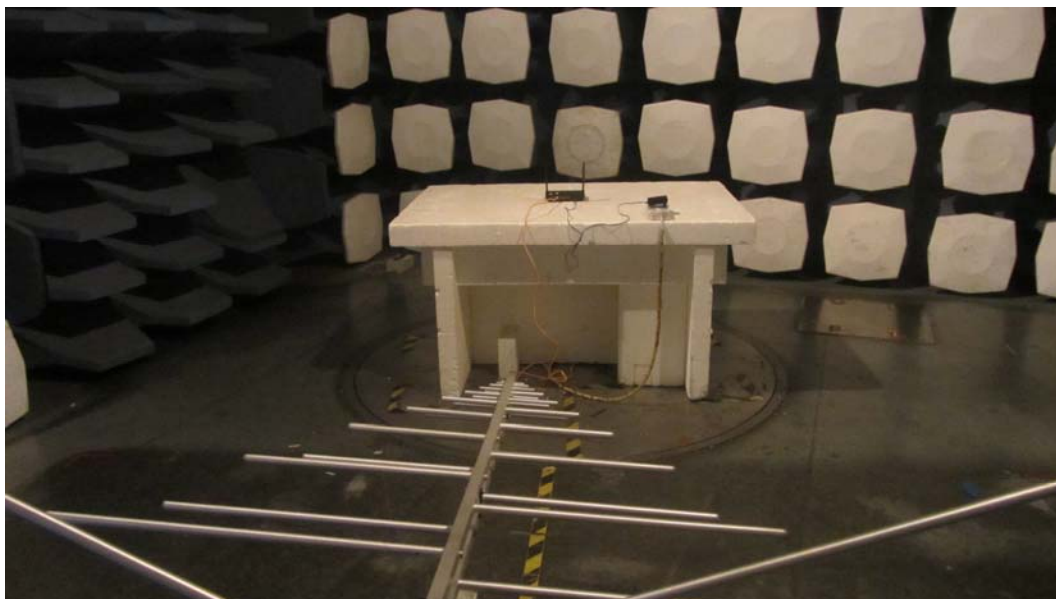
### A.1 EUT Appearance



Picture 1-1: EUT

Picture 1 EUT and Accessory

## A.2 Test Setup



30M Hz-1GHz



Above 1GHz

**Picture 2 Radiated Emission Test Setup**





**Picture 3 Conducted Emission Test Setup**