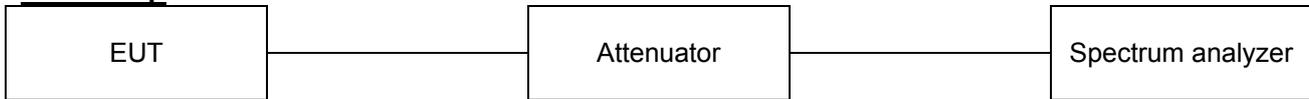


### 7.3. 6 dB Bandwidth(DTS Channel Bandwidth)

#### Test setup



#### Limit

According to §15.247(a)(2) Systems using digital modulation techniques may operate in the 902–928 MHz, 2 400–2 483.5 MHz, and 5 725–5 850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### Test procedure

ANSI C63.10 - Section 11.8

#### Test settings

##### DTS bandwidth

One of the following procedures may be used to determine the modulated DTS bandwidth.

##### Option 1

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

##### Option 2

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW  $\geq 3 \times$  RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be  $\geq 6$  dB.

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**KCTL****Test results**

| Test mode    | Frequency(MHz) | 6 dB bandwidth(MHz) |
|--------------|----------------|---------------------|
| 802.11b      | 2 412          | 8.14                |
|              | 2 437          | 8.74                |
|              | 2 462          | 7.59                |
| 802.11g      | 2 412          | 15.18               |
|              | 2 437          | 15.18               |
|              | 2 462          | 15.88               |
| 802.11n HT20 | 2 412          | 14.94               |
|              | 2 437          | 15.13               |
|              | 2 462          | 15.08               |

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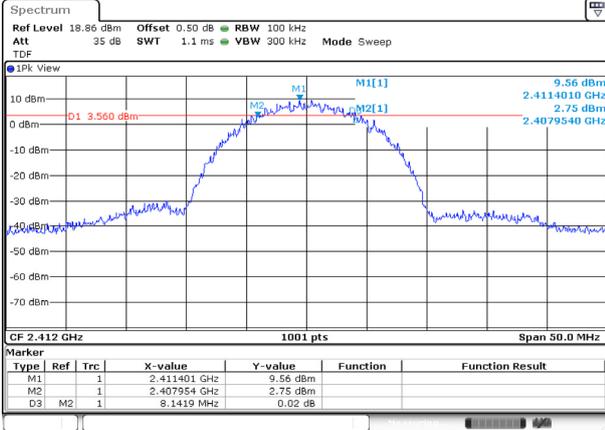
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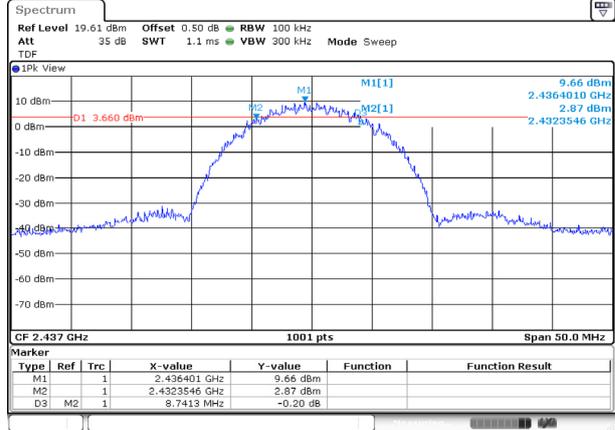


## 6 dB bandwidth(MHz)

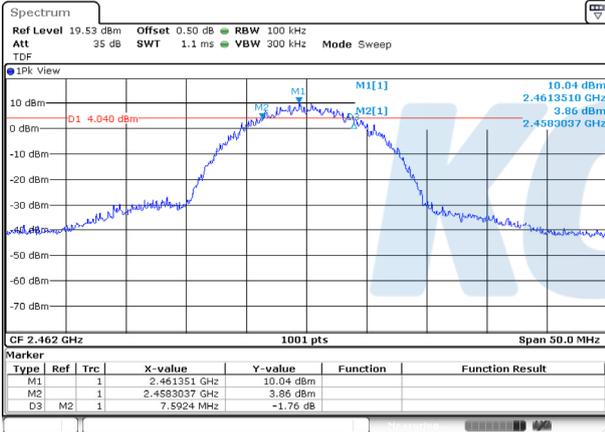
### 802.11b / 2 412 MHz



### 802.11b / 2 437 MHz



### 802.11b / 2 462 MHz



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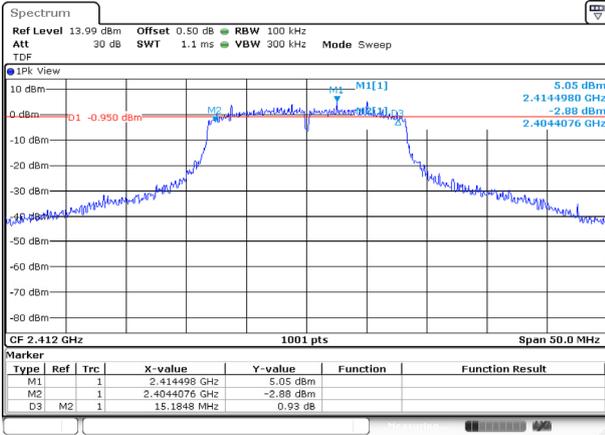
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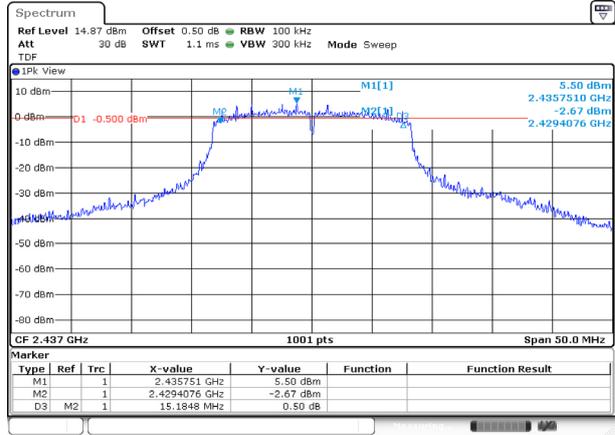
Page (24) of (56)



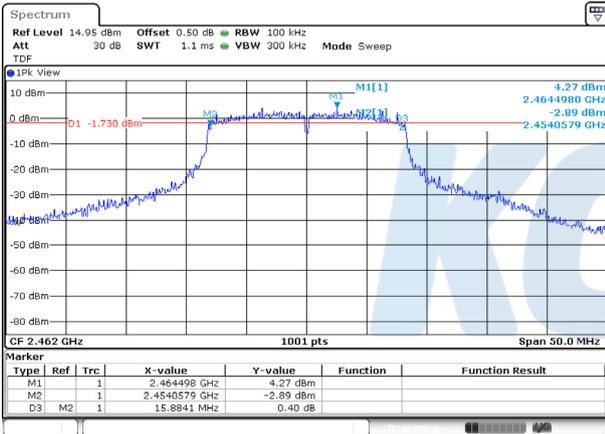
## 802.11g / 2 412 MHz



## 802.11g / 2 437 MHz



## 802.11g / 2 462 MHz



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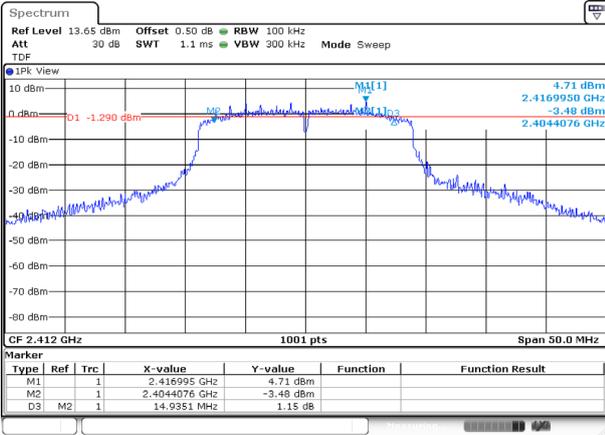
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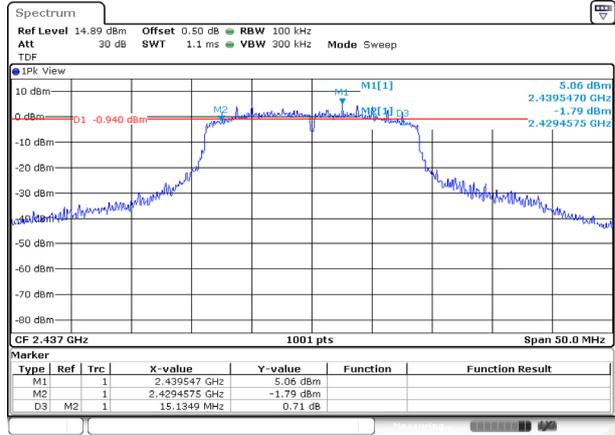
Page (25) of (56)



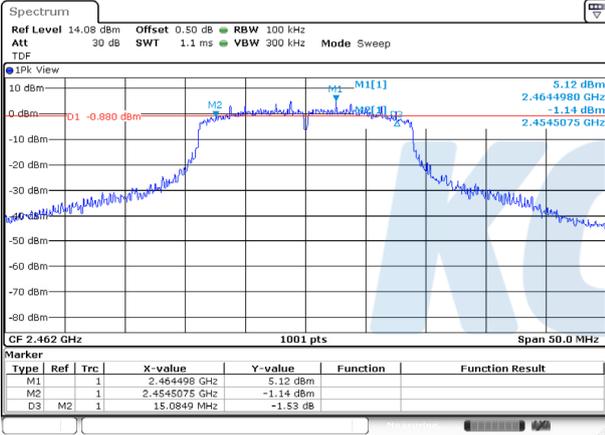
## 802.11n HT20 / 2 412 MHz



## 802.11n HT20 / 2 437 MHz



## 802.11n HT20 / 2 462 MHz

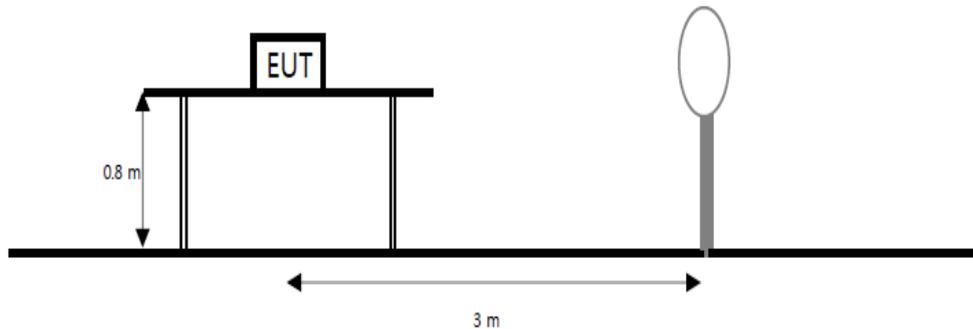


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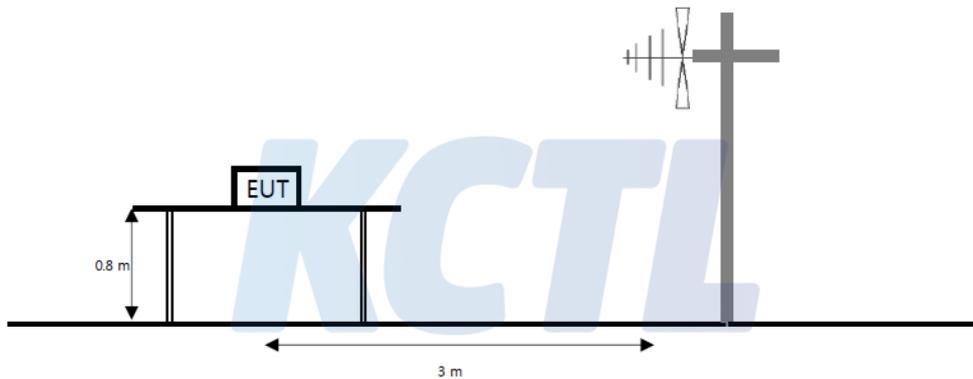
## 7.4. Spurious Emission, Band Edge and Restricted bands

### Test setup

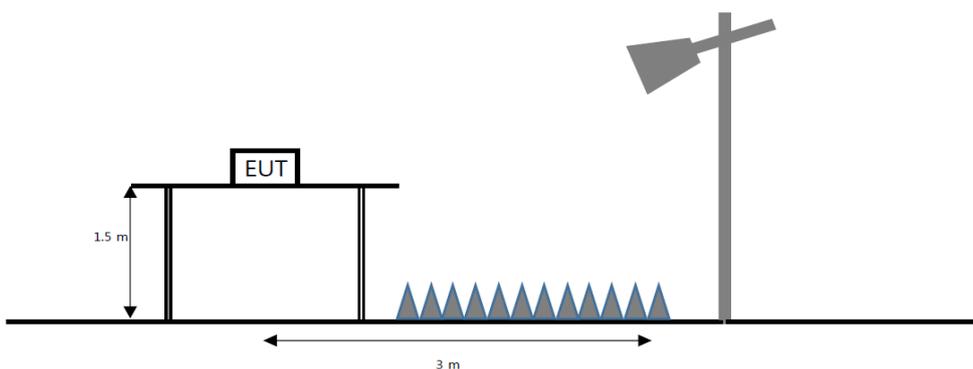
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz emissions, whichever is lower.



**Limit**

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field strength ( $\mu\text{V}/\text{m}$ ) | Measurement distance (m) |
|-----------------|---|--------------------------|
| 0.009 - 0.490   | 2 400/F(kHz)                              | 300                      |
| 0.490 - 1.705   | 24 000/F(kHz)                             | 30                       |
| 1.705 - 30      | 30  | 30                       |
| 30 - 88         | 100**                                     | 3                        |
| 88 - 216        | 150**                                     | 3                        |
| 216 - 960       | 200**                                     | 3                        |
| Above 960       | 500                                       | 3                        |

\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54–72 MHz, 76–88 MHz, 174–216 MHz or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section 15.231 and 15.241.

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                   | MHz                   | MHz               | GHz           |
|-----------------------|-----------------------|-------------------|---------------|
| 0.009 - 0.110         | 16.42 - 16.423        | 399.9 - 410       | 4.5 - 5.15    |
| 0.495 - 0.505         | 16.694 75 - 16.695 25 | 608 - 614         | 5.35 - 5.46   |
| 2.173 5 - 2.190 5     | 16.804 25 - 16.804 75 | 960 - 1 240       | 7.25 - 7.75   |
| 4.125 - 4.128         | 25.5 - 25.67          | 1 300 - 1 427     | 8.025 - 8.5   |
| 4.177 25 - 4.177 75   | 37.5 - 38.25          | 1 435 - 1 626.5   | 9.0 - 9.2     |
| 4.207 25 - 4.207 75   | 73 - 74.6             | 1 645.5 - 1 646.5 | 9.3 - 9.5     |
| 6.215 - 6.218         | 74.8 - 75.2           | 1 660 - 1 710     | 10.6 - 12.7   |
| 6.267 75 - 6.268 25   | 108 - 121.94          | 1 718.8 - 1 722.2 | 13.25 - 13.4  |
| 6.311 75 - 6.312 25   | 123 - 138             | 2 200 - 2 300     | 14.47 - 14.5  |
| 8.291 - 8.294         | 149.9 - 150.05        | 2 310 - 2 390     | 15.35 - 16.2  |
| 8.362 - 8.366         | 156.524 75 - 156.525  | 2 483.5 - 2 500   | 17.7 - 21.4   |
| 8.376 25 - 8.386 75   | 25                    | 2 690 - 2 900     | 22.01 - 23.12 |
| 8.414 25 - 8.414 75   | 156.7 - 156.9         | 3 260 - 3 267     | 23.6 - 24.0   |
| 12.29 - 12.293        | 162.012 5 - 167.17    | 3 332 - 3 339     | 31.2 - 31.8   |
| 12.519 75 - 12.520 25 | 167.72 - 173.2        | 3 345.8 - 3 358   | 36.43 - 36.5  |
| 12.576 75 - 12.577 25 | 240 - 285             | 3 600 - 4 400     | Above 38.6    |
| 13.36 - 13.41         | 322 - 335.4           |                   |               |

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in section 15.209. At frequencies equal to or less than 1 000 MHz, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 MHz, compliance with the emission limits in section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in section 15.35 apply to these measurements.

**Test procedure**

ANSI C63.10-2013

**Test settings****Peak field strength measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW  $\geq$  (3 $\times$ RBW)
4. Detector = peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow sweeps to continue until the trace stabilizes

**Table. RBW as a function of frequency**

| Frequency           | RBW                |
|---------------------|--------------------|
| 9 kHz to 150 kHz    | 200 Hz to 300 Hz   |
| 0.15 MHz to 30 MHz  | 9 kHz to 10 kHz    |
| 30 MHz to 1 000 MHz | 100 kHz to 120 kHz |
| > 1 000 MHz         | 1 MHz              |

**Average field strength measurements****Trace averaging with continuous EUT transmission at full power**

If the EUT can be configured or modified to transmit continuously (D  $\geq$  98%), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

1. RBW = 1 MHz (unless otherwise specified).
2. VBW  $\geq$  (3 $\times$ RBW).
3. Detector = RMS (power averaging), if [span / (# of points in sweep)]  $\leq$  (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
4. Averaging type = power (i.e., rms):
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.

**Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction**

If continuous transmission of the EUT (D  $\geq$  98%) cannot be achieved and the duty cycle is constant (duty cycle variations are less than  $\pm 2\%$ ), then the following procedure shall be used:

1. The EUT shall be configured to operate at the maximum achievable duty cycle.
2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
3. RBW = 1 MHz (unless otherwise specified).
4. VBW  $\geq$  [3  $\times$  RBW].
5. Detector = RMS (power averaging), if [span / (# of points in sweep)]  $\leq$  (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.

6. Averaging type = power (i.e., rms):
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
7. Sweep time = auto.
8. Perform a trace average of at least 100 traces.
9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
  - 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is  $[10 \log (1 / D)]$ , where D is the duty cycle.
  - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is  $[20 \log (1 / D)]$ , where D is the duty cycle.
  - 3) If a specific emission is demonstrated to be continuous ( $D \geq 98\%$ ) rather than turning ON and OFF with with the transmit cycle, then no duty cycle correction is required for that emission.

**Notes:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz ( $\geq 1/T$ ) for Average detection (AV) at frequency above 1 GHz. (where T = pulse width)
2.  $f < 30$  MHz, extrapolation factor of 40 dB/decade of distance.  $F_d = 40 \log(D_m/D_s)$   
 $f \geq 30$  MHz, extrapolation factor of 20 dB/decade of distance.  $F_d = 20 \log(D_m/D_s)$   
Where:
  - $F_d$  = Distance factor in dB
  - $D_m$  = Measurement distance in meters
  - $D_s$  = Specification distance in meters
3. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or  $F_d$ (dB)
4. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
5. Average test would be performed if the peak result were greater than the average limit.
6. <sup>1)</sup> means restricted band.
7. According to part 15.31(f)(2), an extrapolation factor of 40 dB/decade is applied because measured distance of radiated emission is 3 m.

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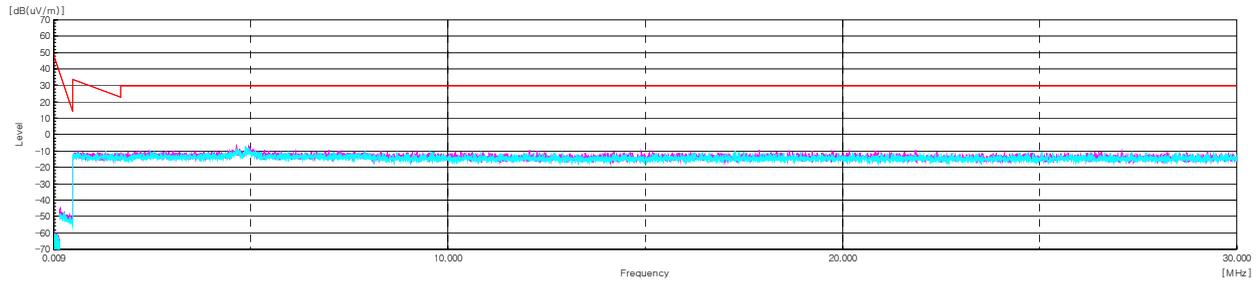


## Test results (Below 30 MHz) – Worst case: 802.11g / 2 437 MHz

| Frequency | Reading         | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result            | Limit             | Margin |
|-----------|-----------------|-------|-------------|--------------|------|-------------------|-------------------|--------|
| (MHz)     | (dB( $\mu V$ )) | (V/H) | (dB)        | (dB)         | (dB) | (dB( $\mu V/m$ )) | (dB( $\mu V/m$ )) | (dB)   |

No spurious emissions were detected within 20 dB of the limit.

### Horizontal/Vertical



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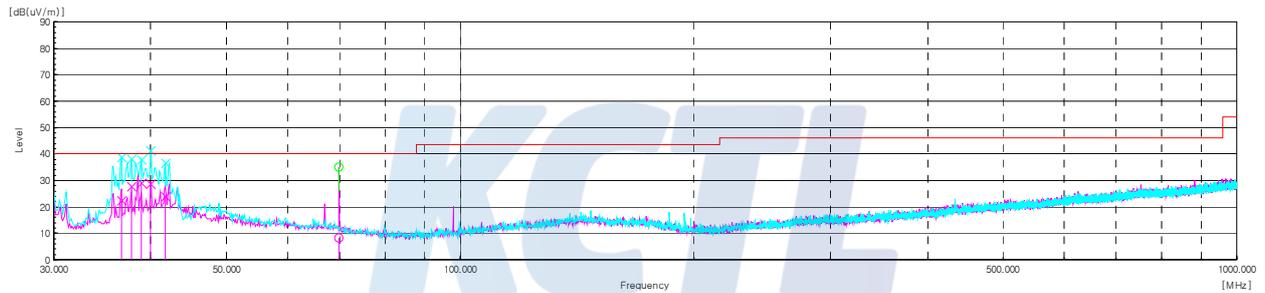
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# KCTL

## Test results (Below 1 000 MHz) – Worst case: 802.11g / 2 437 MHz

| Frequency              | Reading         | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result            | Limit             | Margin |
|------------------------|-----------------|-------|-------------|--------------|------|-------------------|-------------------|--------|
| (MHz)                  | (dB( $\mu V$ )) | (V/H) | (dB)        | (dB)         | (dB) | (dB( $\mu V/m$ )) | (dB( $\mu V/m$ )) | (dB)   |
| <b>Quasi peak data</b> |                 |       |             |              |      |                   |                   |        |
| 36.67                  | 35.40           | V     | 17.73       | -30.52       | -    | 22.61             | 40.00             | 17.39  |
| 37.76                  | 40.30           | V     | 17.95       | -30.49       | -    | 27.76             | 40.00             | 12.24  |
| 38.85                  | 41.40           | V     | 18.17       | -30.47       | -    | 29.10             | 40.00             | 10.90  |
| 39.94                  | 40.70           | V     | 18.39       | -30.45       | -    | 28.64             | 40.00             | 11.36  |
| 41.76                  | 36.00           | V     | 18.40       | -30.41       | -    | 23.99             | 40.00             | 16.01  |
| 69.89                  | 21.80           | H     | 16.42       | -29.94       | -    | 8.28              | 40.00             | 31.72  |

### Horizontal/Vertical



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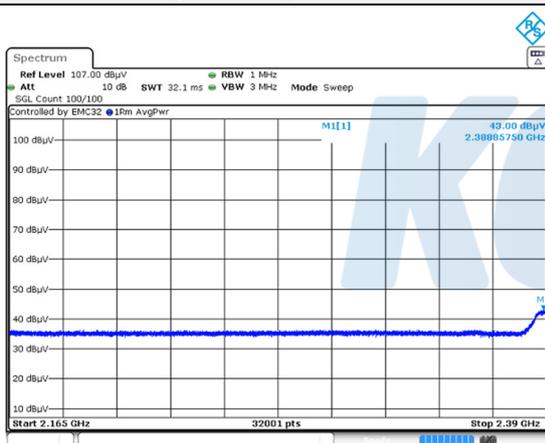
## Test results (Above 1 000 MHz)

### 802.11b

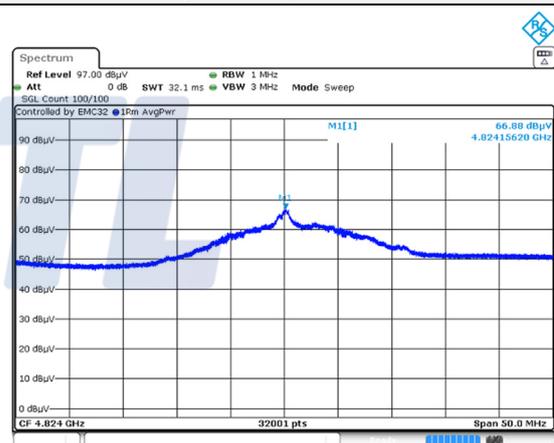
#### 2 412 MHz

| Frequency              | Reading  | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit      | Margin |
|------------------------|----------|-------|-------------|--------------|------|------------|------------|--------|
| (MHz)                  | (dB(μV)) | (V/H) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>       |          |       |             |              |      |            |            |        |
| 2 388.86 <sup>1)</sup> | 51.04    | H     | 31.88       | -29.04       | -    | 53.88      | 74.00      | 20.12  |
| 4 824.16 <sup>1)</sup> | 73.26    | H     | 33.93       | -52.83       | -    | 54.36      | 74.00      | 19.64  |
| 7 237.38               | 65.55    | H     | 35.40       | -51.86       | -    | 49.09      | 74.00      | 24.91  |
| <b>Average Data</b>    |          |       |             |              |      |            |            |        |
| 2 388.86 <sup>1)</sup> | 43.00    | H     | 31.88       | -29.04       | 0.47 | 46.31      | 54.00      | 7.69   |
| 4 824.16 <sup>1)</sup> | 66.88    | H     | 33.93       | -52.83       | 0.47 | 48.45      | 54.00      | 5.55   |

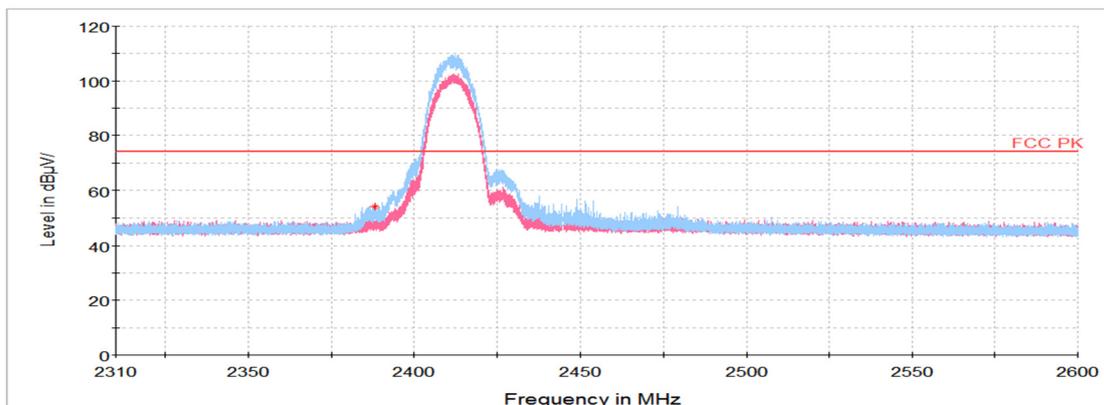
Average data (2 388.86 MHz)



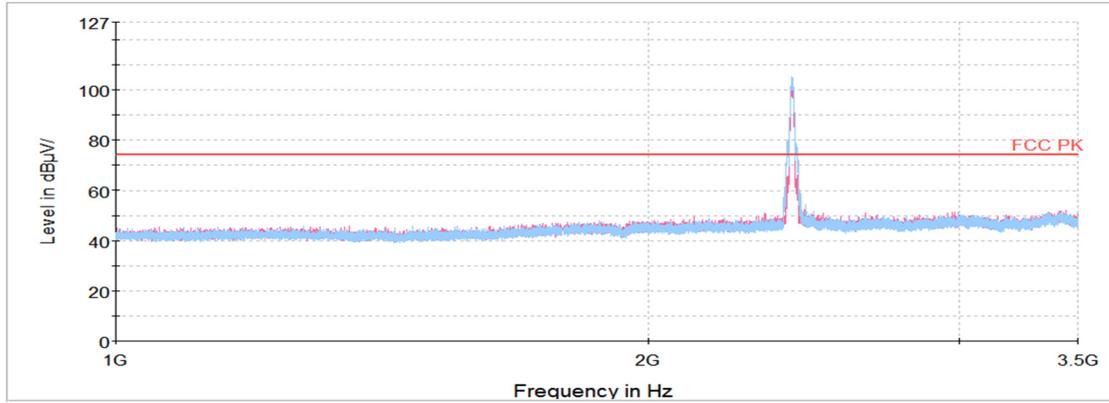
Average data (4 824.16 MHz)



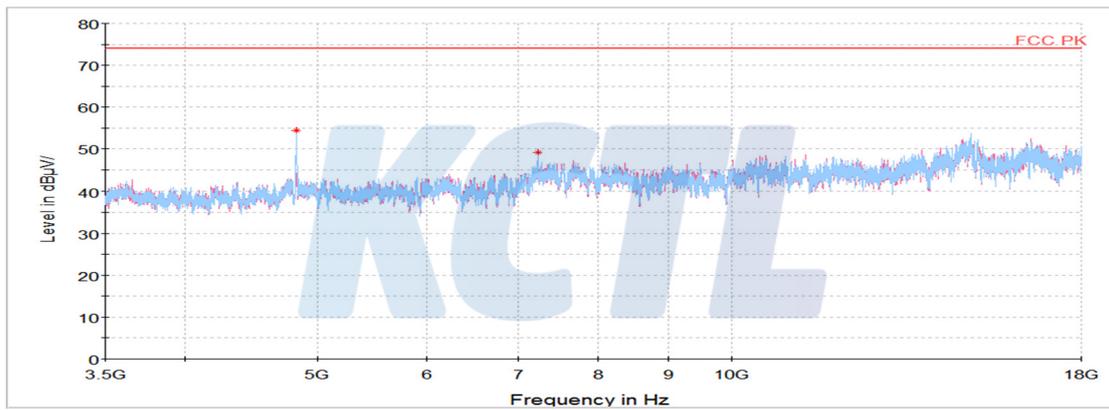
### Horizontal/Vertical for Band-edge



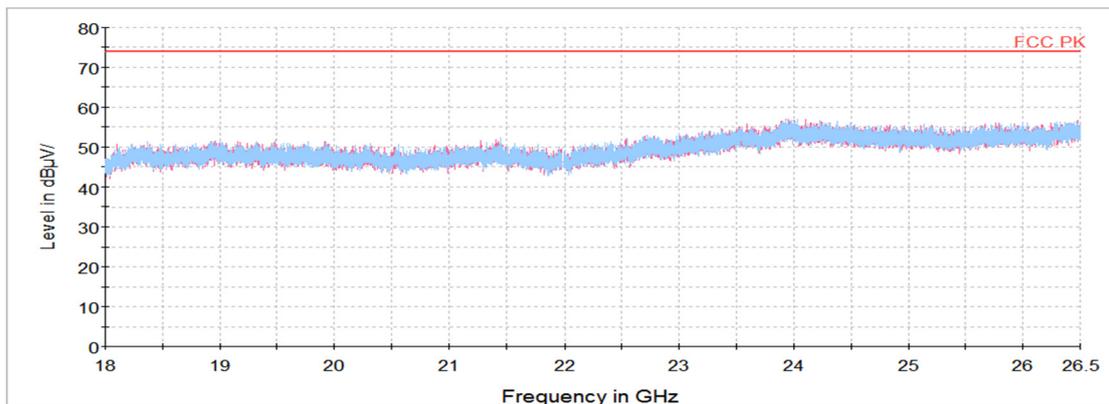
**Horizontal/Vertical for 1 GHz ~ 3.5 GHz**



**Horizontal/Vertical for 3.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 26.5 GHz**



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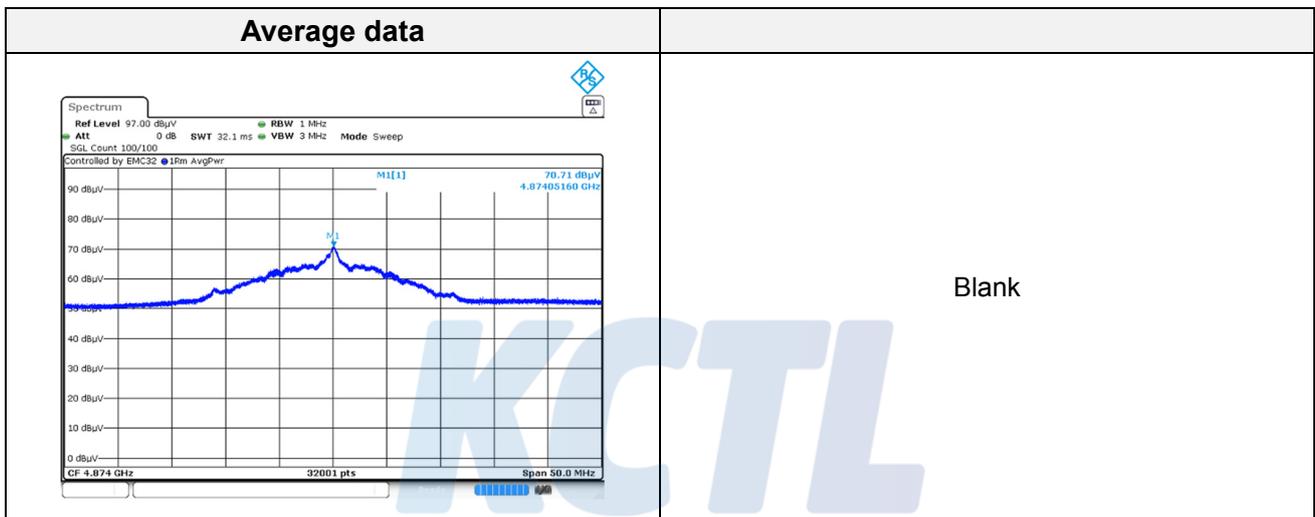
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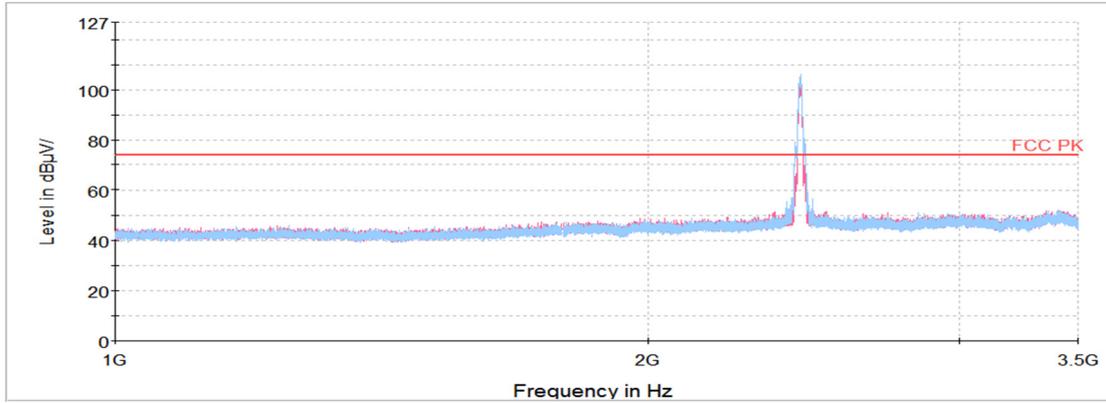


## 2 437 MHz

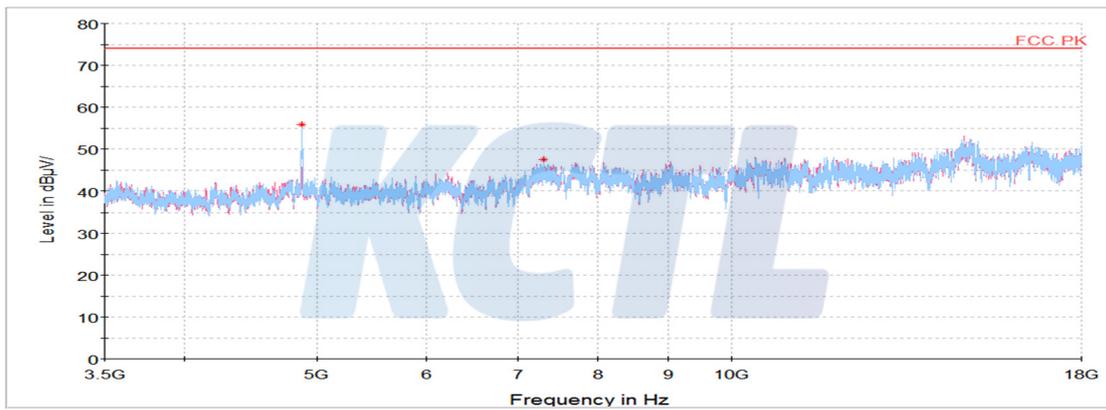
| Frequency               | Reading  | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit      | Margin |
|-------------------------|----------|-------|-------------|--------------|------|------------|------------|--------|
| (MHz)                   | (dB(μV)) | (V/H) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>        |          |       |             |              |      |            |            |        |
| 4 874.05 <sup>(1)</sup> | 76.00    | H     | 33.95       | -54.21       | -    | 55.74      | 74.00      | 18.26  |
| 7 310.33 <sup>(1)</sup> | 63.65    | H     | 35.40       | -51.50       | -    | 47.55      | 74.00      | 26.45  |
| <b>Average Data</b>     |          |       |             |              |      |            |            |        |
| 4 874.05 <sup>(1)</sup> | 70.71    | H     | 33.95       | -54.21       | 0.47 | 50.92      | 54.00      | 3.08   |



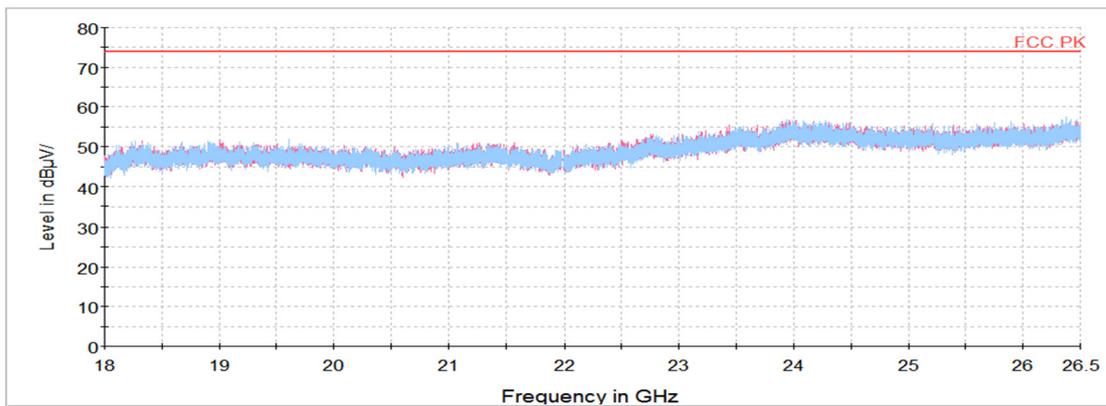
**Horizontal/Vertical for 1 GHz ~ 3.5 GHz**



**Horizontal/Vertical for 3.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 26.5 GHz**



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## 2 462 MHz

| Frequency              | Reading  | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit      | Margin |
|------------------------|----------|-------|-------------|--------------|------|------------|------------|--------|
| (MHz)                  | (dB(μV)) | (V/H) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>       |          |       |             |              |      |            |            |        |
| 2 483.52 <sup>1)</sup> | 49.38    | H     | 32.07       | -29.21       | -    | 52.24      | 74.00      | 21.76  |
| 4 923.97 <sup>1)</sup> | 75.80    | H     | 33.97       | -54.88       | -    | 54.89      | 74.00      | 19.11  |
| 7 386.00 <sup>1)</sup> | 65.59    | H     | 35.40       | -51.13       | -    | 49.86      | 74.00      | 24.14  |
| <b>Average Data</b>    |          |       |             |              |      |            |            |        |
| 2 483.52 <sup>1)</sup> | 43.27    | H     | 32.07       | -29.21       | 0.47 | 46.60      | 54.00      | 7.40   |
| 4 923.97 <sup>1)</sup> | 71.21    | H     | 33.97       | -54.88       | 0.47 | 50.77      | 54.00      | 3.23   |

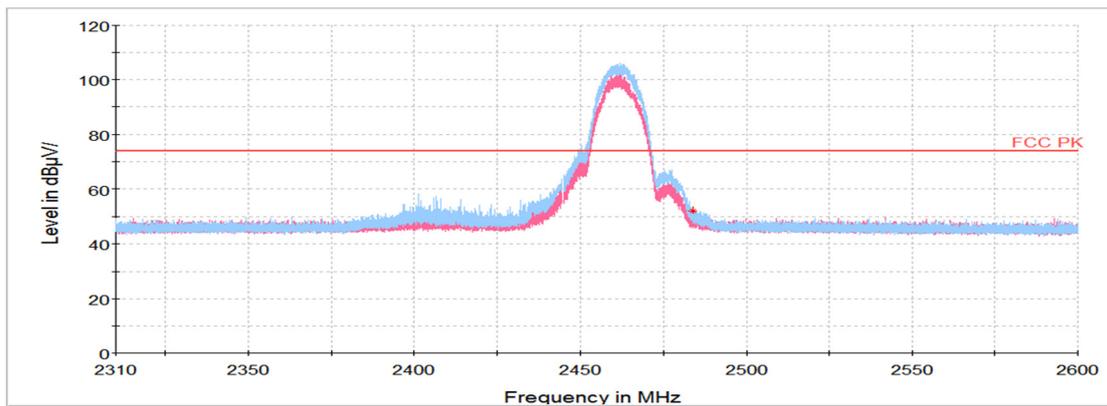
Average data (2 483.52 MHz)



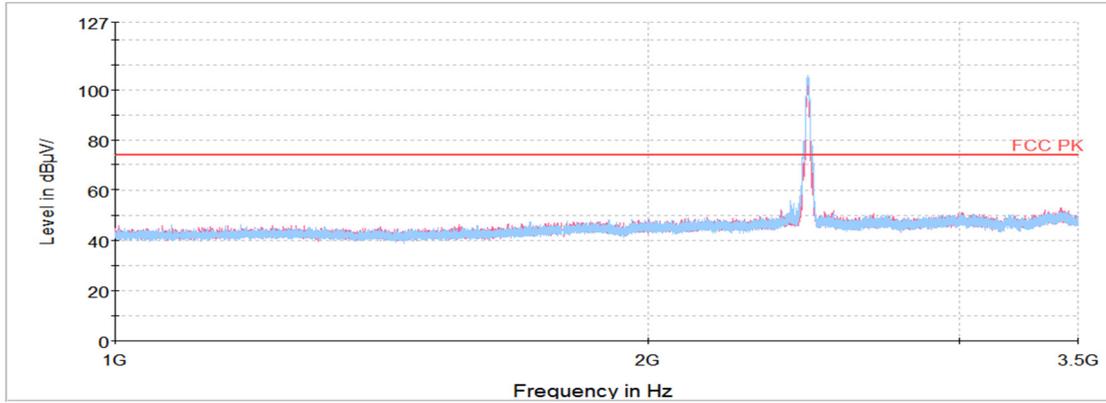
Average data (4 923.97 MHz)



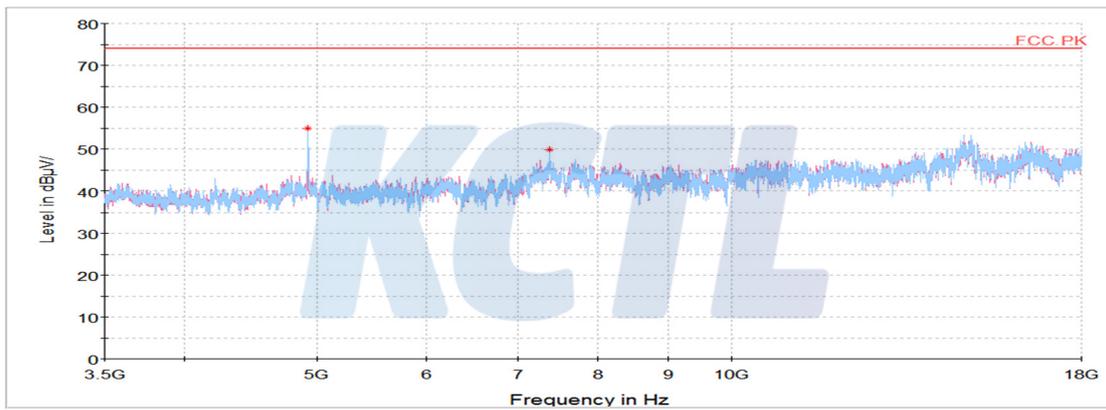
## Horizontal/Vertical for Band-edge



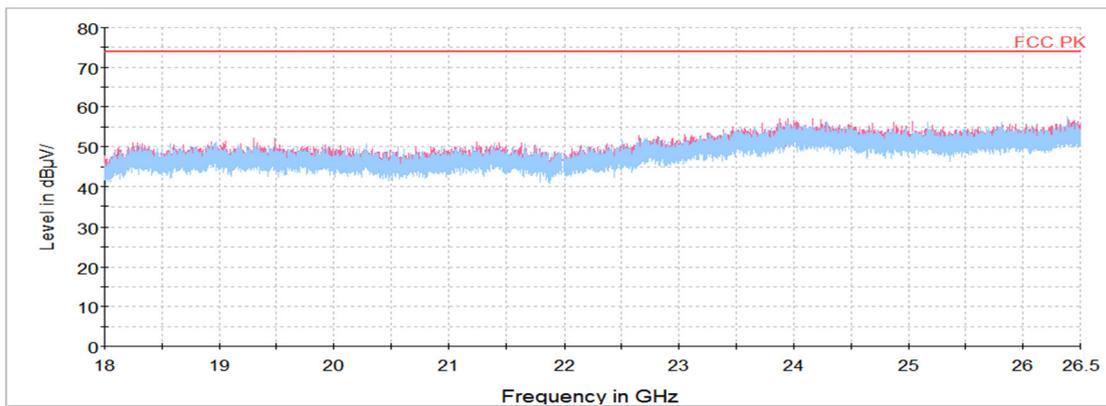
**Horizontal/Vertical for 1 GHz ~ 3.5 GHz**



**Horizontal/Vertical for 3.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 26.5 GHz**



# KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
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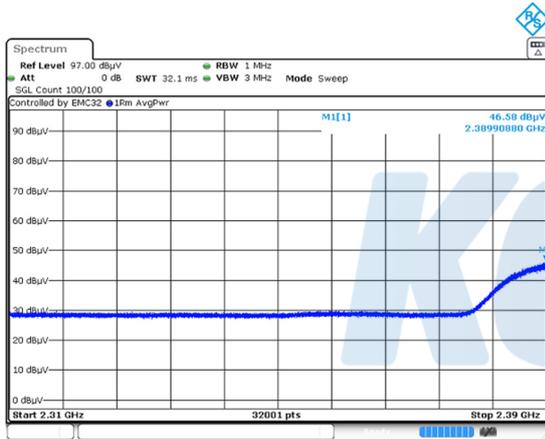


## 802.11g

### 2 412 MHz

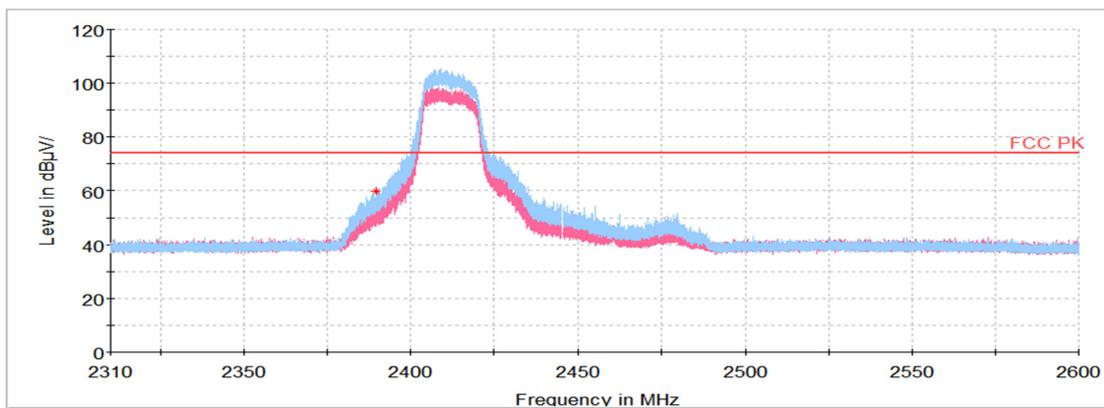
| Frequency              | Reading  | Pol.  | Ant. Factor | Amp. + Cable | DCCF | Result     | Limit      | Margin |
|------------------------|----------|-------|-------------|--------------|------|------------|------------|--------|
| (MHz)                  | (dB(μV)) | (V/H) | (dB)        | (dB)         | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>       |          |       |             |              |      |            |            |        |
| 2 389.91 <sup>1)</sup> | 56.78    | H     | 31.88       | -29.04       | -    | 59.62      | 74.00      | 14.38  |
| 4 824.03 <sup>1)</sup> | 66.58    | H     | 33.93       | -52.83       | -    | 47.68      | 74.00      | 26.32  |
| 7 234.20               | 62.59    | H     | 35.40       | -51.88       | -    | 46.11      | 74.00      | 27.89  |
| <b>Average Data</b>    |          |       |             |              |      |            |            |        |
| 2 389.91 <sup>1)</sup> | 46.58    | H     | 31.88       | -29.04       | -    | 49.42      | 54.00      | 4.58   |

### Average data

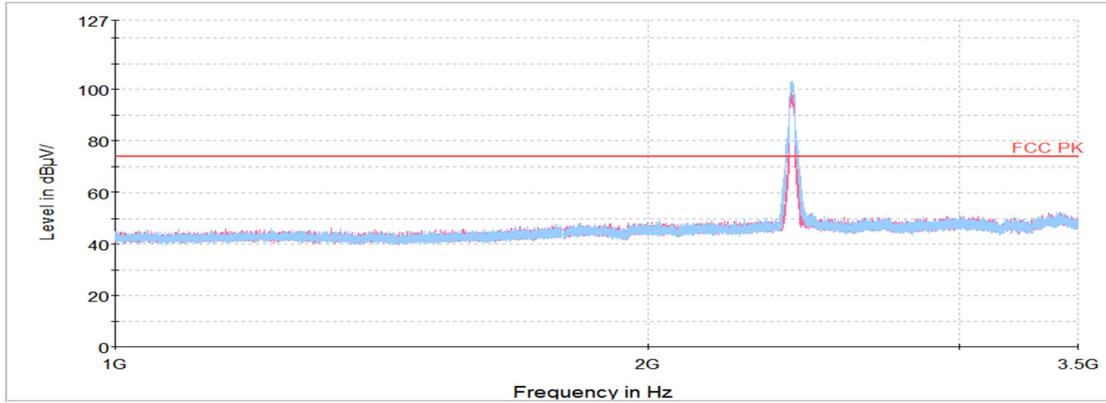


Blank

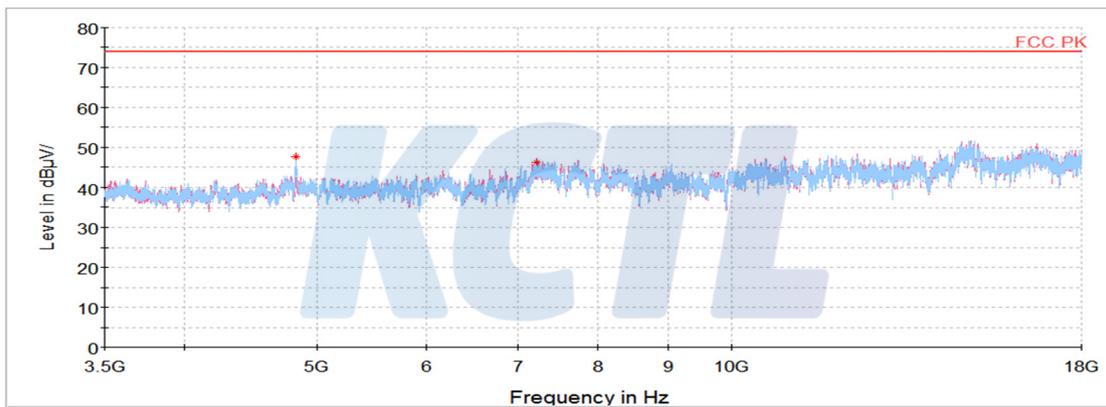
### Horizontal/Vertical for Band-edge



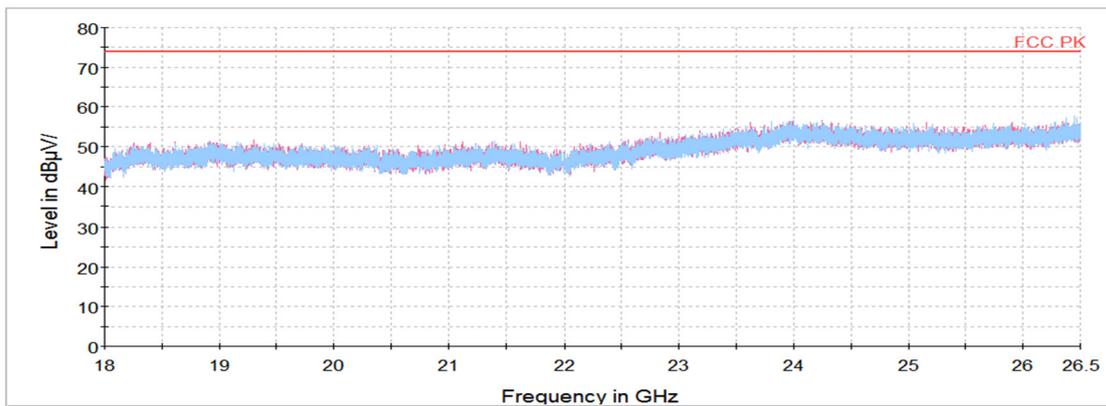
**Horizontal/Vertical for 1 GHz ~ 3.5 GHz**



**Horizontal/Vertical for 3.5 GHz ~ 18 GHz**



**Horizontal/Vertical for 18 GHz ~ 26.5 GHz**



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**KCTL****2 437 MHz**

| Frequency<br>(MHz)   | Reading<br>(dB( $\mu V$ )) | Pol.<br>(V/H) | Ant. Factor<br>(dB) | Amp. + Cable<br>(dB) | DCCF<br>(dB) | Result<br>(dB( $\mu V/m$ )) | Limit<br>(dB( $\mu V/m$ )) | Margin<br>(dB) |
|--|----------------------------|---------------|---------------------|----------------------|--------------|-----------------------------|----------------------------|----------------|
| <b>Peak data</b>   |                            |               |                     |                      |              |                             |                            |                |
| 4 873.88 <sup>1)</sup>   | 67.53                      | H             | 33.95               | -54.20               | -            | 47.28                       | 74.00                      | 26.72          |
| 7 312.14 <sup>1)</sup>   | 60.83                      | V             | 35.40               | -51.50               | -            | 44.73                       | 74.00                      | 29.27          |
| <b>Average Data</b>  |                            |               |                     |                      |              |                             |                            |                |
| No spurious emissions were detected within 20 dB of the limit. |                            |               |                     |                      |              |                             |                            |                |

**KCTL**