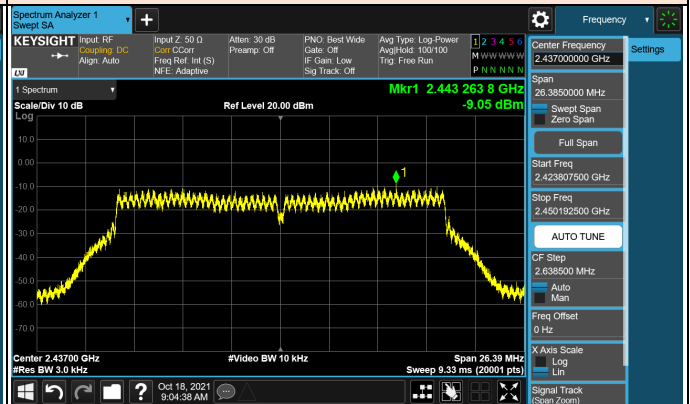
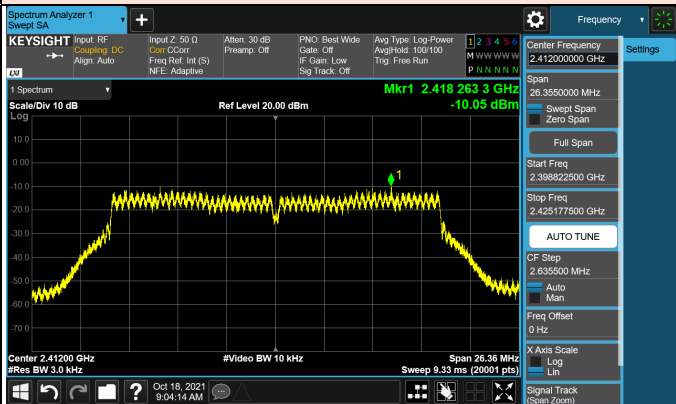




### 802.11n(HT20)

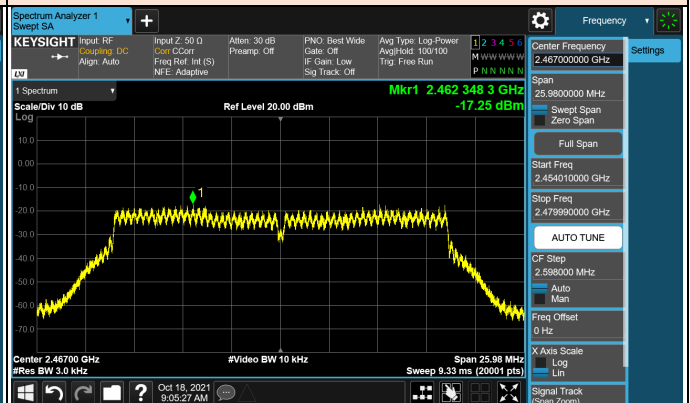
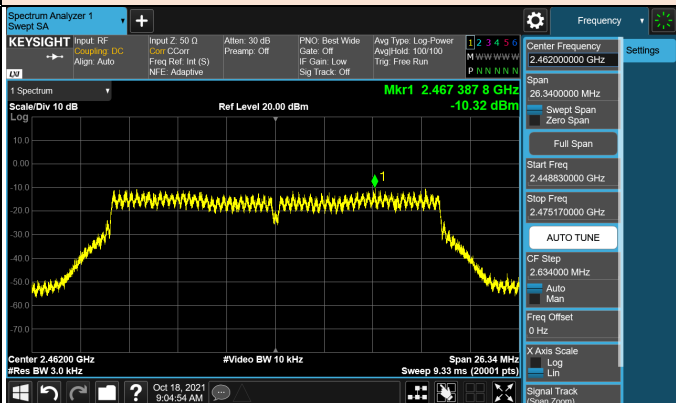
#### 2 412 MHz

#### 2 437 MHz

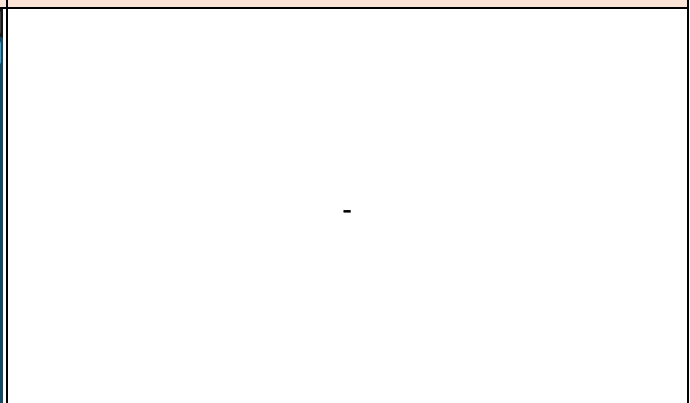
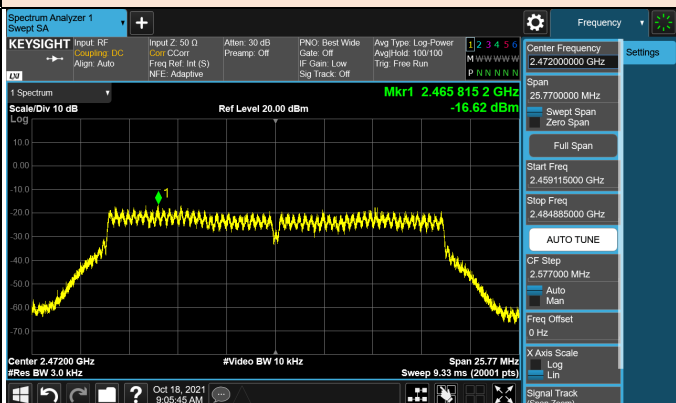


#### 2 462 MHz

#### 2 467 MHz



#### 2 472 MHz



## 3.5 Spurious Emission, Band edge and Restricted Bands

### 3.5.1 Regulation

§15.247(d) : In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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)).

§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 (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

\*\*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., §§15.231 and 15.241.



§15.205(a) : Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6

§15.205 (b) : Except as provided in paragraphs (d) and (e) of this section, the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

### 3.5.2 Test Procedure

#### Band-edge Compliance for RF Conducted Emissions

These procedures are applicable for determining compliance at authorized-band band-edges where the requirements are expressed as a value relative to the in-band signal level. Procedures for determining compliance with field strength limits at or close to the band-edges are given in 6.10.6 (see also Table A.2).

Band-edge tests are typically performed as a conducted test but may be performed as radiated measurements on a test site meeting the specifications in 5.2, at the measurement distances specified in 5.3. The instrumentation shall meet the requirements in 4.1.1 using the bandwidths and detectors specified in 4.1.4.2.

When performing radiated measurements, the measurement antenna(s) shall meet the specifications in 4.3. The EUT shall be connected to an antenna and operated at the highest power settings following procedures in 6.3.

For other than frequency-hopping devices, this test sequence shall be performed once. For devices that support frequency hopping, this test sequence shall be performed twice: once with the hopping function turned OFF and then repeated with the hopping function turned ON. The purpose of the test with the hopping function turned on is to confirm that the RF power remains OFF while the device is changing frequencies, and that the oscillator stabilizes at the new frequency before RF power is turned back ON. Overshoot of any oscillator, including phase-lock-loop stabilized oscillators, can cause the device to be temporarily tuned to frequencies outside the authorized band, and it is important that no transmissions occur during such temporary periods. Particular attention to the hopping sequence requirements specified below is needed in the case of adaptive frequency-hopping devices:

- a) Connect the EMI receiver or spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described in step e) (be sure to enter all losses between the unlicensed wireless device output and the spectrum analyzer).
- b) Set the EUT to the lowest frequency channel (for the hopping on test, the hopping sequence shall include the lowest frequency channel).
- c) Set the EUT to operate at maximum output power and 100% duty cycle, or equivalent “normalmode of operation” as specified in 6.10.3.
- d) If using the radiated method, then use the applicable procedure(s) of 6.4, 6.5, or 6.6, and orient the EUT and measurement antenna positions to produce the highest emission level.
- e) Perform the test as follows:
  - 1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.
  - 2) Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
  - 3) Attenuation: Auto (at least 10 dB preferred).
  - 4) Sweep time: Coupled.
  - 5) Resolution bandwidth: 100 kHz.
  - 6) Video bandwidth: 300 kHz.
  - 7) Detector: Peak.
  - 8) Trace: Max hold.
- f) Allow the trace to stabilize. For the test with the hopping function turned ON, this can take several minutes to achieve a reasonable probability of intercepting any emissions due to oscillator overshoot.

- g) Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, and then use the marker-to-peak function to move the marker to the peak of the in-band emission.
- h) Repeat step c) through step e) for every applicable modulation.
- i) Set the EUT to the highest frequency channel (for the hopping on test, the hopping sequence shall include the highest frequency channel) and repeat step c) through step d).
- j) The band-edge measurement shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

### **Spurious RF Conducted Emissions**

Conducted spurious emissions shall be measured for the transmit frequency, per 5.5 and 5.6, and at the maximum transmit powers.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The instrument shall span 30 MHz to 10 times the operating frequency in GHz, with a resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector. The band 30 MHz to the highest frequency may be split into smaller spans, as long as the entire spectrum is covered.

### **Spurious Radiated Emissions**

1. The preliminary radiated measurement were performed to determine the frequency producing the maximum emissions in an semi-anechoic chamber at a distance of 3 meters.
2. The EUT was placed on the top of the 0.8-meter height, 1 x 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
3. The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, and from 30 to 1000 MHz using the Bi-Log antenna, and from 1000 MHz to 26500 MHz using the horn antenna.
4. To obtain the final measurement data, the EUT was arranged on a turntable situated on a 4 x 4 meter in an semi-anechoic chamber. The EUT was tested at a distance 3 meters.
5. Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector fuction with specified bandwidth.
6. The 0.8 m height is for below 1 GHz testing, and 1.5 m is for above 1GHz testing.

### **- Procedure for unwanted emissions measurements below 1 000 MHz**

The procedure for unwanted emissions measurements below 1 000 MHz is as follows:

- a) Follow the requirements in 12.7.4.
- b) Compliance shall be determined using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

### **- Procedure for peak unwanted emissions measurements above 1 000 MHz**

The procedure for peak unwanted emissions measurements above 1 000 MHz is as follows:

- a) Follow the requirements in 12.7.4.
- b) Peak emission levels are measured by setting the instrument as follows:
  - 1) RBW = 1 MHz.
  - 2) VBW  $\geq$  [3  $\times$  RBW].
  - 3) Detector = peak.
  - 4) Sweep time = auto.
  - 5) Trace mode = max hold.
  - 6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately 1 / D, where D is the duty cycle. For example, at 50 % duty cycle, the measurement time will increase by a factor of two, relative to measurement time for continuous transmission.

### **- Procedure for average unwanted emissions measurements above 1 000 MHz**

#### **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):

- a) RBW = 1 MHz (unless otherwise specified).
- b) VBW  $\geq$  (3 $\times$ RBW).
- c) 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.
- d) 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.
- e) Sweep time = auto.

- f) 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:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle  $D$  of the transmitter output signal as described in 2.4
- c)  $RBW = 1 \text{ MHz}$  (unless otherwise specified).
- d)  $VBW \geq [3 \times RBW]$ .
- e) Detector = RMS (power averaging), if  $[\text{span} / (\# \text{ of points in sweep})] \leq (RBW / 2)$ . 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.
- f) 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.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) 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:
  - 3) 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.
  - 4) 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.
  - 5) 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.

#### **- Sample Calculation**

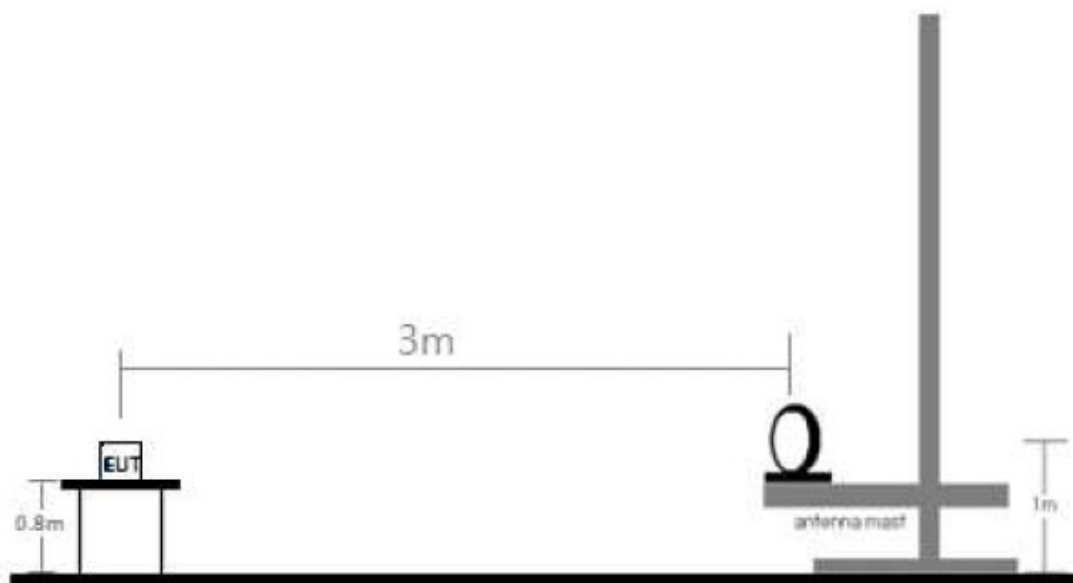
- Field Strength Level  $[\text{dB}\mu\text{V}/\text{m}] = \text{Analyzer Level} [\text{dBm}] + 107 + \text{AFCL} [\text{dB}/\text{m}] + \text{Duty Cycle Correction} [\text{dB}]$

- $AFCL [dB/m] = Antenna\ Factor [dB/m] + Cable\ loss [dB]$
- $Margin [dB] = Field\ Strength\ Level [dB\mu V/m] - Limit [dB\mu V/m]$

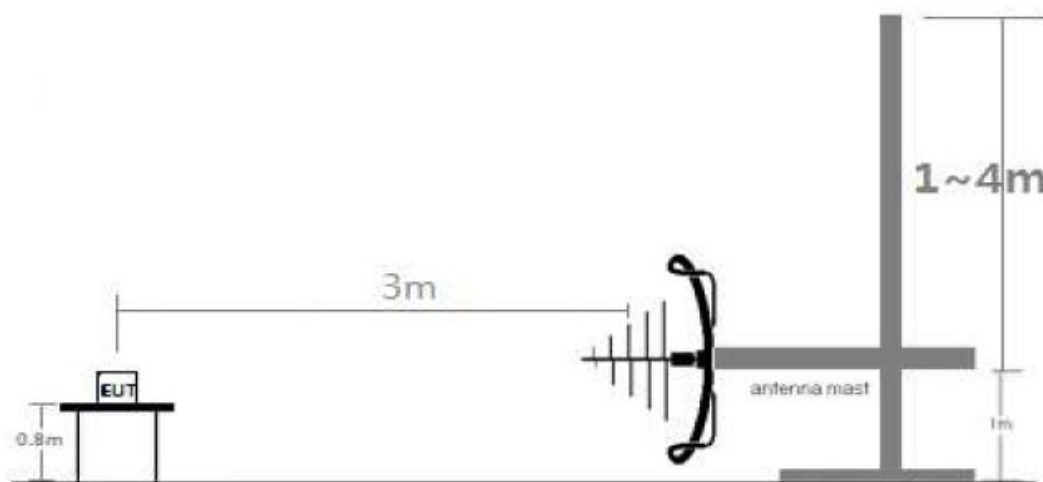
### 3.5.3 Deviation from Test Standard

No deviation.

### 3.5.4 Test Setup

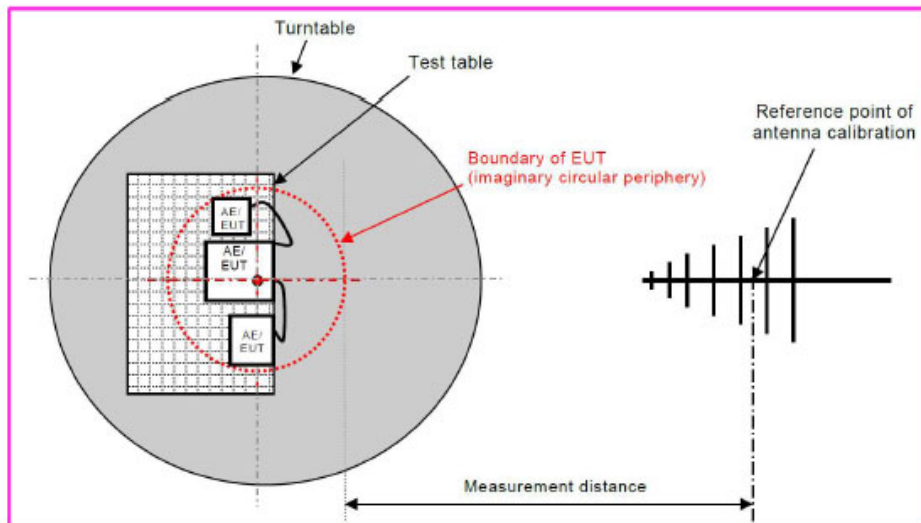
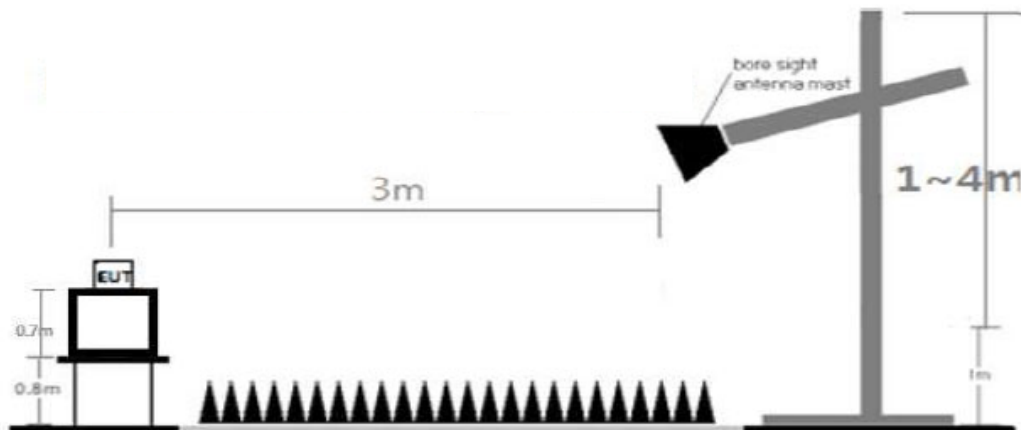


**[Radiated Emission Test Setup Below 30 MHz]**



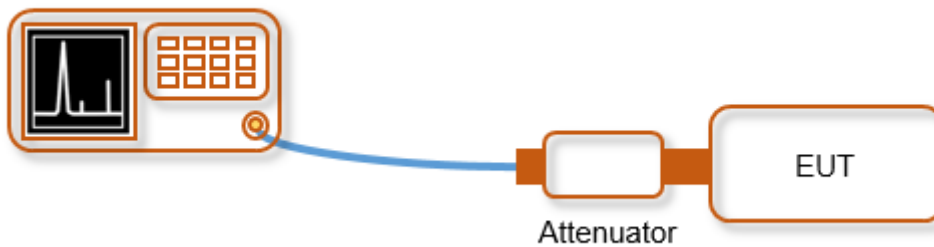
**[Radiated Emission Test Setup Below 1 GHz]**





[Radiated Emission Test Setup Above 1 GHz]

Spectrum Analyzer



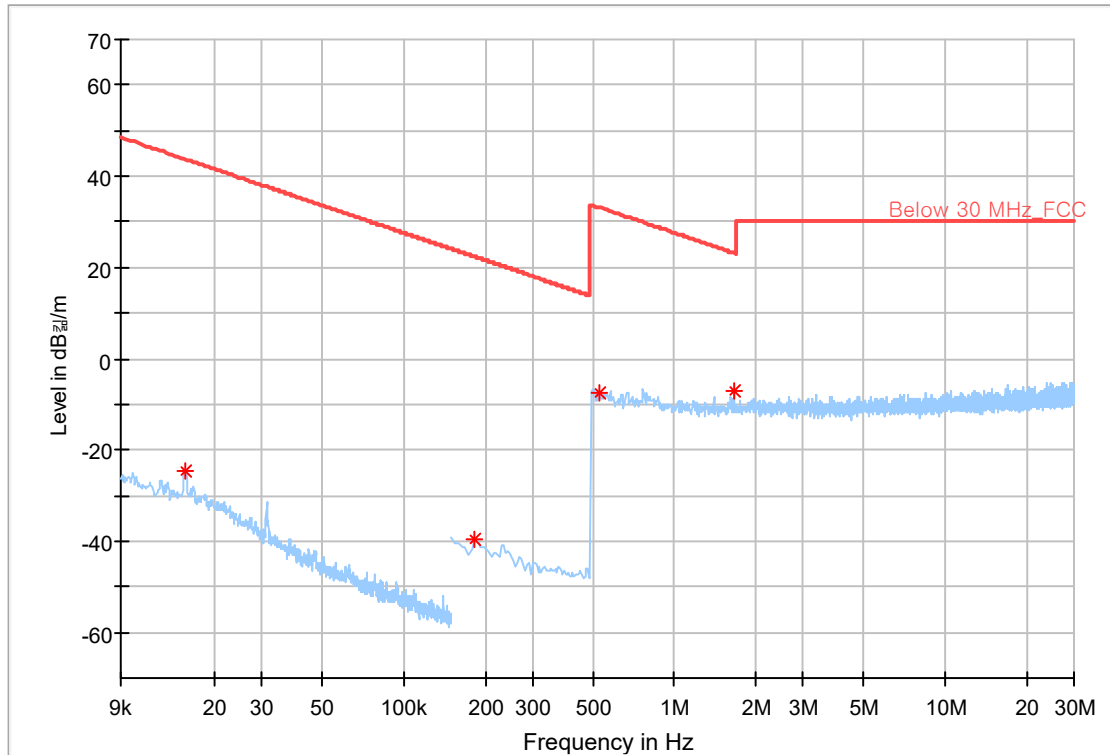
[Conducted Spurious Emission]



### 3.5.5 Test Result of Radiated Spurious Emission

#### 3.5.5.1 Radiated Emissions (Below 30 MHz)

**Worst case - RSE(Below 30 MHz)\_2.4GHz WLAN\_802.11b\_2437\_Z**



Frequency [MHz]	Peak Reading Value [dBuV]	Peak [dBuV/m]	Distance Correction Factor [dB]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB/m]
0.02	34.68	-24.82	-80.00	43.67	68.49	100.00	Ground parallel	270.00	-59.50
0.18	19.88	-39.52	-80.00	22.37	61.89	100.00	Ground parallel	317.00	-59.40
0.53	11.83	-7.47	-40.00	33.15	40.62	100.00	Ground parallel	314.00	-19.30
1.66	12.10	-7.00	-40.00	23.20	30.20	100.00	Ground parallel	233.00	-19.10

Frequency [MHz]	Peak Reading Value [dBuA]	Peak [dBuA/m]	Distance Correction Factor [dB]	Limit [dBuA/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB/m]
0.02	-16.82	-76.32	-80.00	-7.83	68.49	100.00	Ground parallel	270.00	-59.50
0.18	-31.62	-91.02	-80.00	-29.13	61.89	100.00	Ground parallel	317.00	-59.40
0.53	-39.67	-58.97	-40.00	-18.35	40.62	100.00	Ground parallel	314.00	-19.30
1.66	-39.40	-58.50	-40.00	-28.30	30.20	100.00	Ground parallel	233.00	-19.10

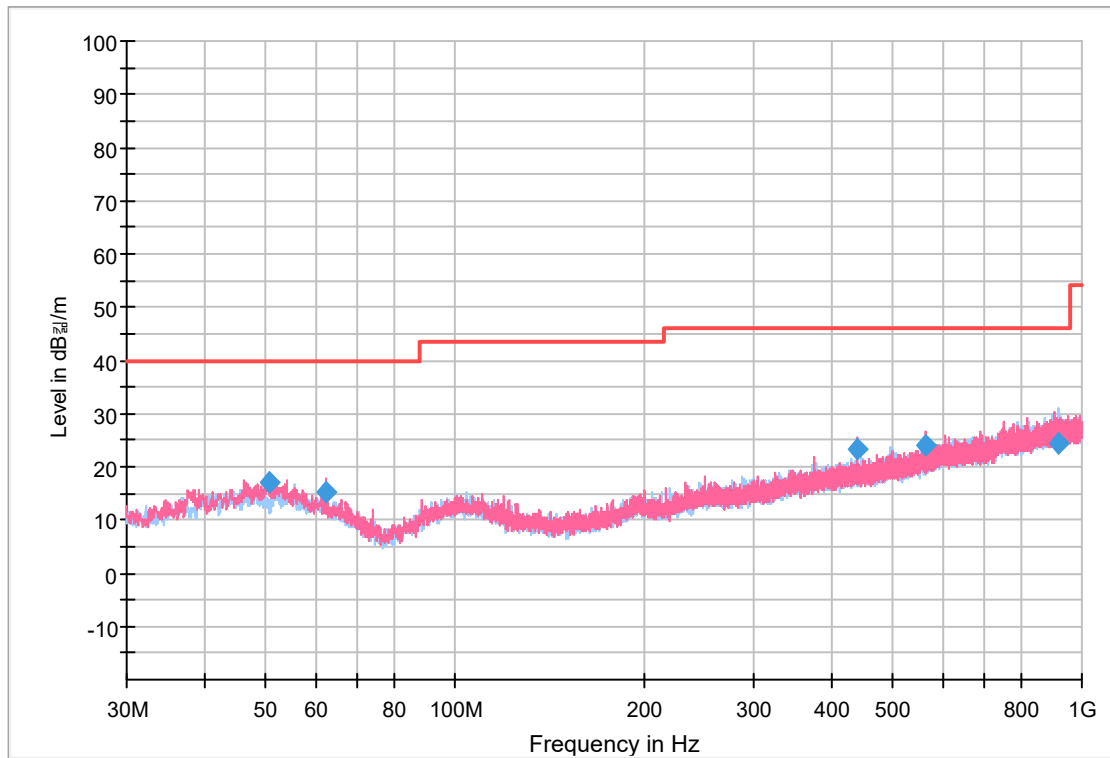
**Remarks**

1. Peak(dBuV/m) = Peak Reading Value(dBuV/m) + Correction Factor(dB) + Distance Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Peak) Result (dBuV/m) – (Peak) Limit (dBuV/m)



### 3.5.5.2 Radiated Emissions (Below 1 GHz)

**Worst case - RSE(Below 1 GHz)\_2.4GHz WLAN\_802.11b\_2437**



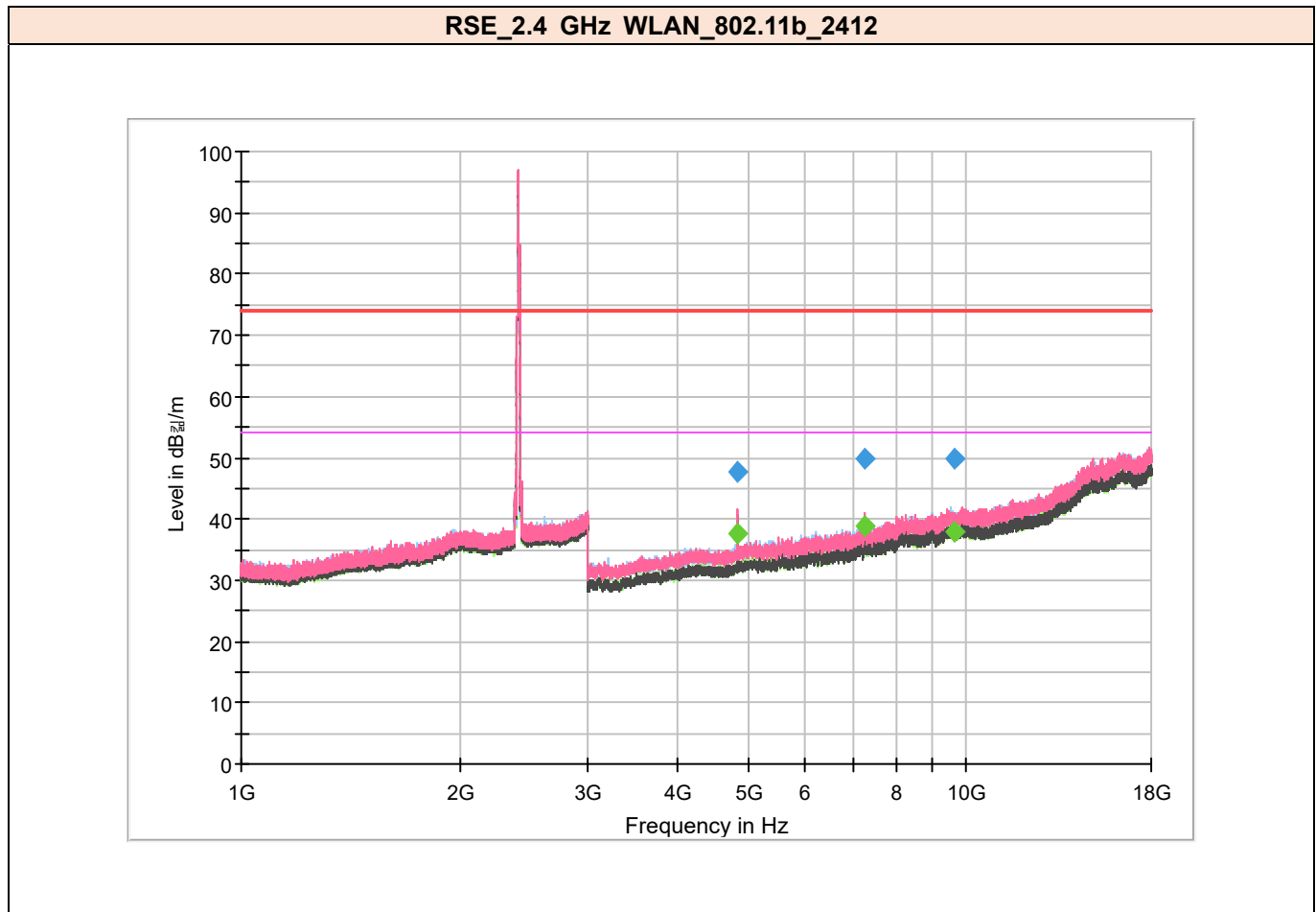
Frequency [MHz]	Quasi Reading Value [dBuV]	Quasi Peak [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Pol	Azimuth [deg]	Correction Factor [dB/m]
50.61	35.80	16.90	40.00	23.10	150	V	323	-18.90
62.50	36.10	15.40	40.00	24.60	100	V	18	-20.70
437.50	37.78	23.38	46.02	22.64	105	V	168	-14.40
562.53	36.27	23.97	46.02	22.05	254	V	28	-12.30
919.05	31.93	24.33	46.02	21.69	350	H	2	-7.60

**Remarks**

1. Quasi Peak(dBμV/m) = Quasi Peak Reading Value(dBμV/m) + Correction Factor(dB)
2. Correction Factor(dB) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin(dB) = (Quasi Peak) Result (dBμV/m) – (Quasi Peak) Limit (dBμV/m)



### 3.5.5.3 Radiated Emissions (Above 1 GHz)



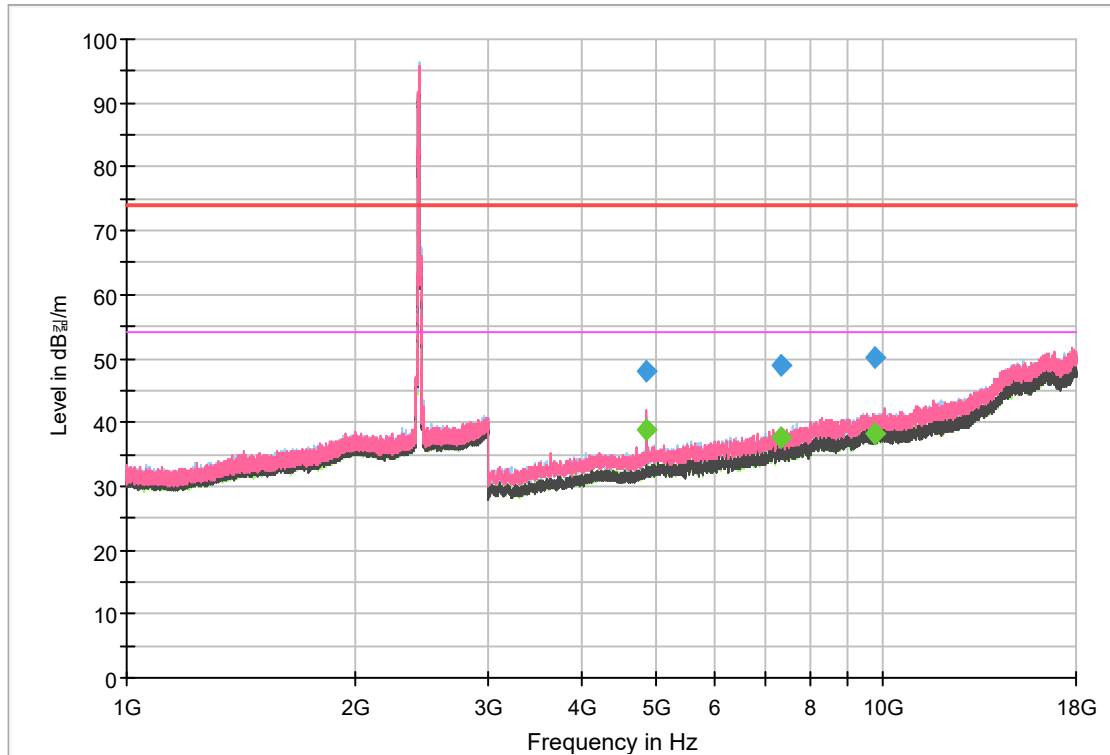
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 823.44	44.97	47.77	---	---	---	250	V	264	2.80	26.23	74.00	---	54.00
4 823.44	---	---	34.83	37.63	---	250	V	264	2.80	---	74.00	16.37	54.00
7 237.50	41.69	49.79	---	---	---	265	V	264	8.10	24.21	74.00	---	54.00
7 237.50	---	---	30.73	38.83	---	265	V	264	8.10	---	74.00	15.17	54.00
9 645.00	39.13	49.93	---	---	---	250	H	84	10.80	24.07	74.00	---	54.00
9 645.00	---	---	27.20	38.00	---	250	H	84	10.80	---	74.00	16.00	54.00

#### Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11b\_2437**



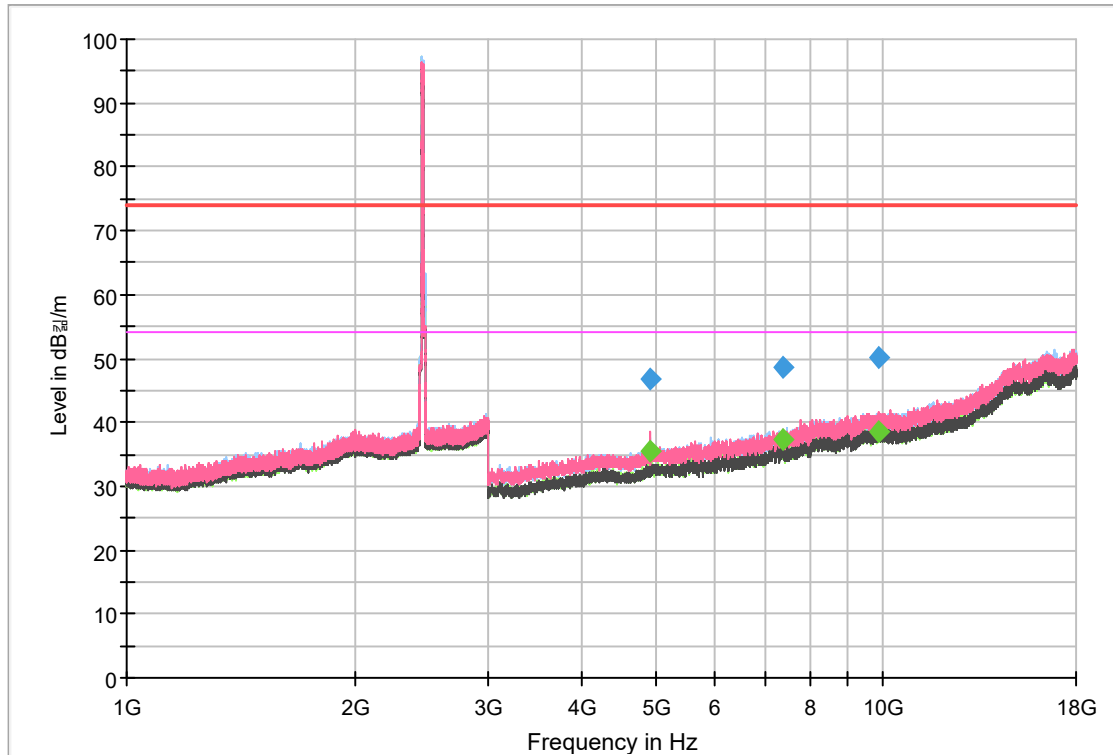
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 873.59	44.95	48.05	---	---	---	308	V	290	3.10	25.95	74.00	---	54.00
4 873.59	---	---	35.62	38.72	---	308	V	290	3.10	---	74.00	15.28	54.00
7 312.03	40.60	48.90	---	---	---	350	V	212	8.30	25.10	74.00	---	54.00
7 312.03	---	---	29.38	37.68	---	350	V	212	8.30	---	74.00	16.32	54.00
9 749.53	39.31	50.11	---	---	---	227	V	189	10.80	23.89	74.00	---	54.00
9 749.53	---	---	27.51	38.31	---	227	V	189	10.80	---	74.00	15.69	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11b\_2462**



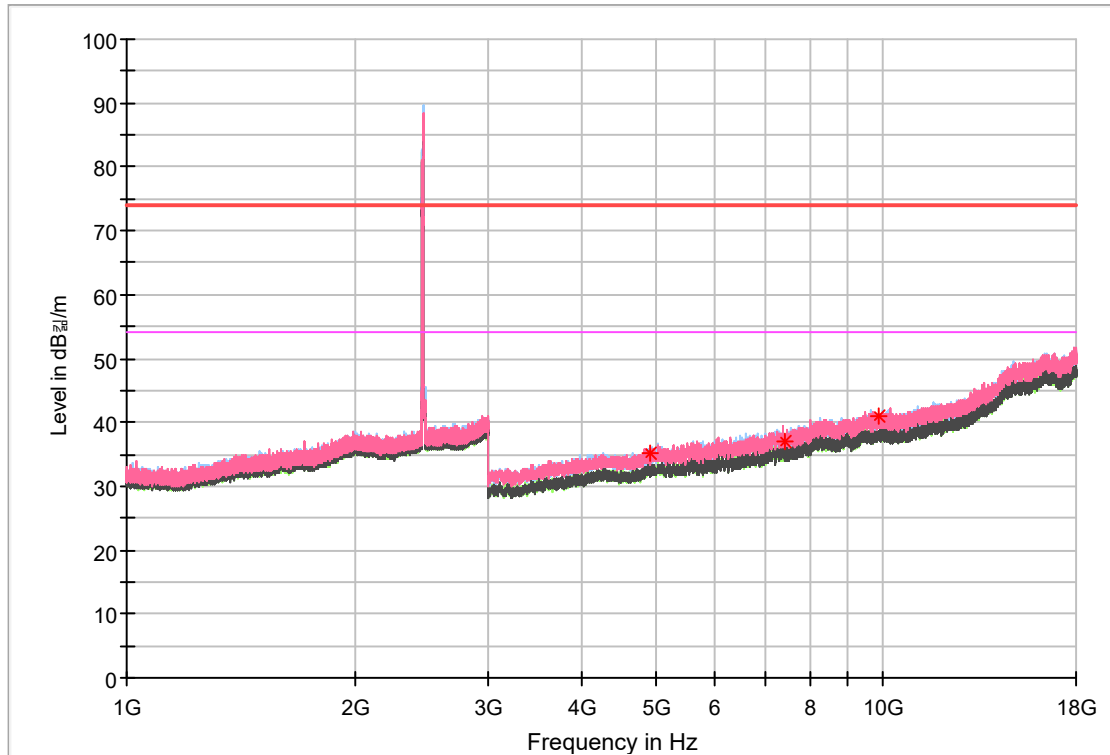
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 924.14	43.61	46.81	---	---	---	250	V	264	3.20	27.19	74.00	---	54.00
4 924.14	---	---	32.37	35.57	---	250	V	264	3.20	---	74.00	18.43	54.00
7 385.26	40.42	48.72	---	---	---	272	V	182	8.30	25.28	74.00	---	54.00
7 385.26	---	---	29.02	37.32	---	272	V	182	8.30	---	74.00	16.68	54.00
9 852.64	39.02	50.22	---	---	---	296	H	-4	11.20	23.78	74.00	---	54.00
9 852.64	---	---	27.38	38.58	---	296	H	-4	11.20	---	74.00	15.42	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11b\_2467**



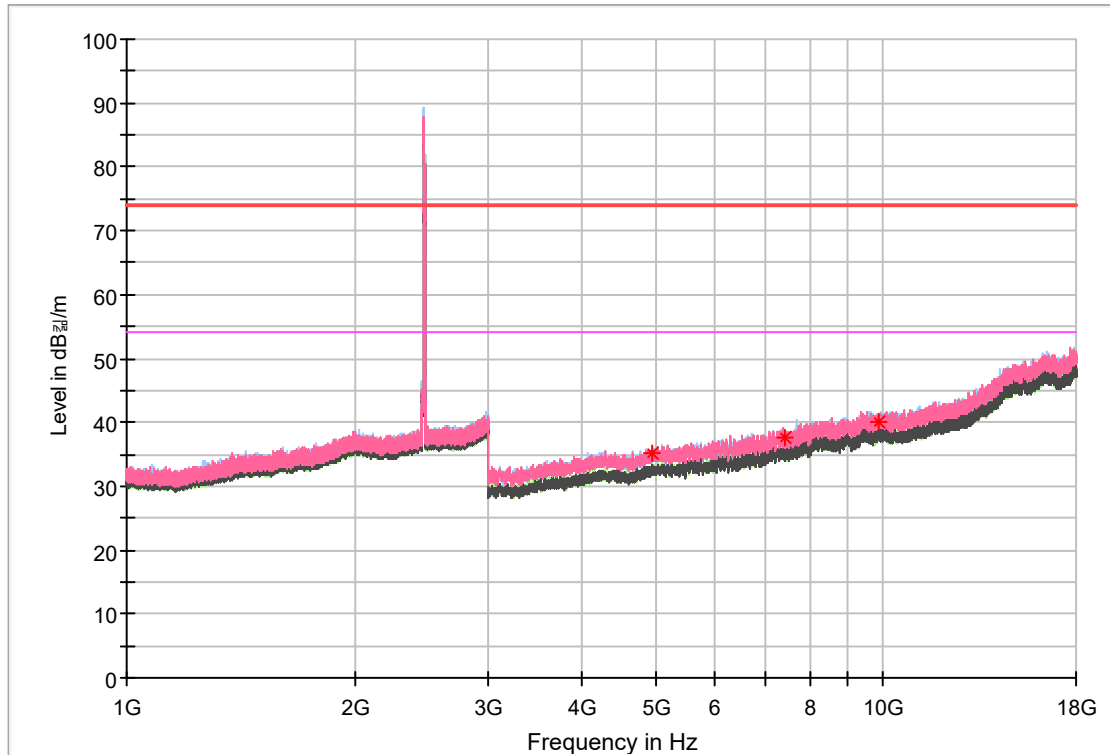
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 934.06	32.04	35.24	---	---	---	200	V	284	3.20	38.76	74.00	---	54.00
7 401.09	28.68	36.88	---	---	---	300	V	137	8.20	37.12	74.00	---	54.00
9 868.13	29.73	40.93	---	---	---	200	H	2	11.20	33.07	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11b\_2472**



Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 943.91	31.97	35.27	---	---	---	200	V	285	3.30	38.73	74.00	---	54.00
7 416.09	29.27	37.57	---	---	---	200	H	308	8.30	36.43	74.00	---	54.00
9 888.28	28.74	40.04	---	---	---	200	H	38	11.30	33.96	74.00	---	54.00

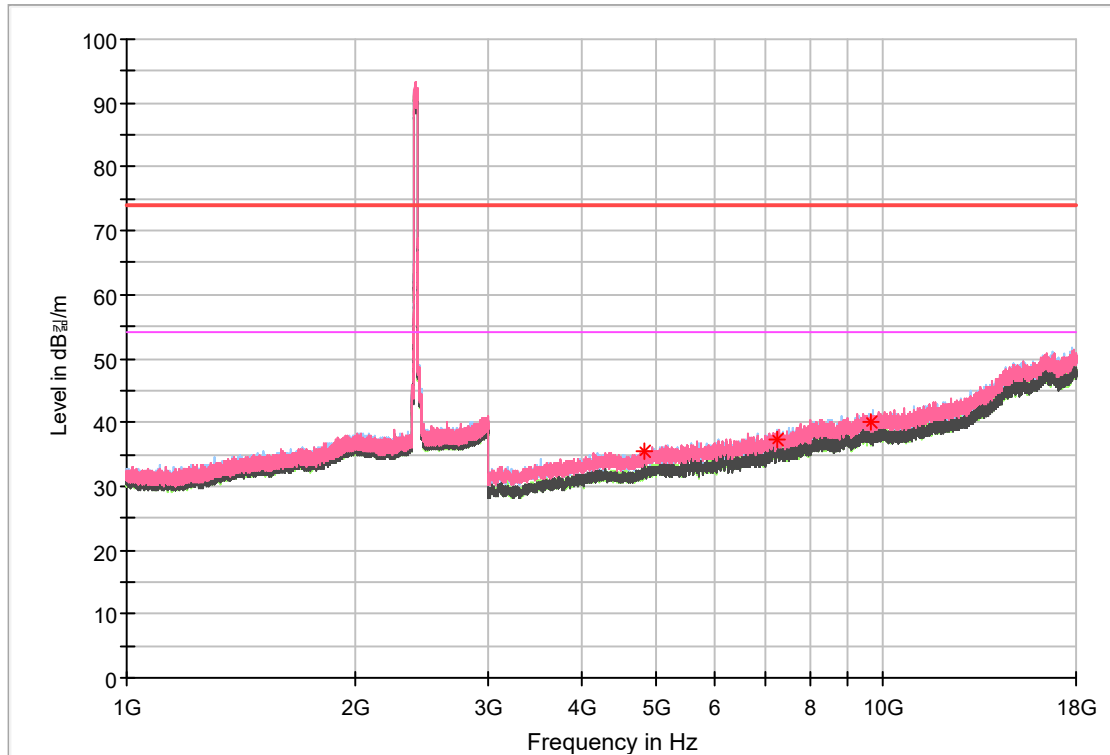
**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)





**RSE\_2.4 GHz WLAN\_802.11g\_2412**



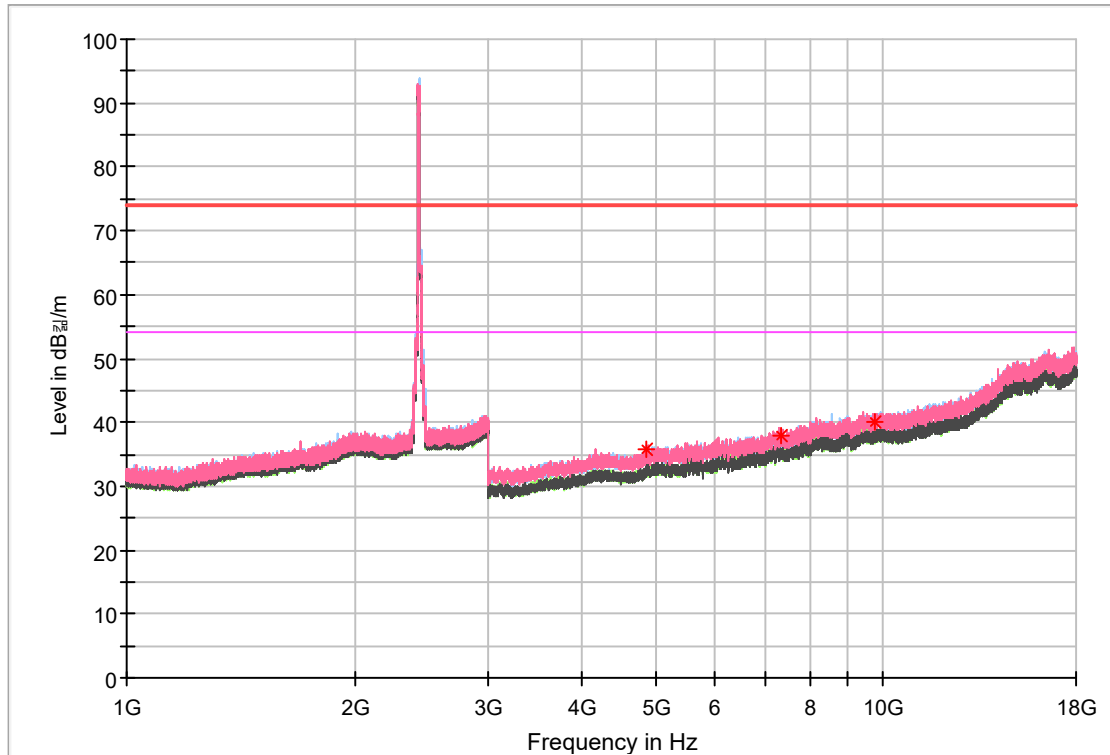
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 825.31	32.60	35.40	---	---	---	300	V	44	2.80	38.60	74.00	---	54.00
7 236.09	29.33	37.43	---	---	---	200	V	232	8.10	36.57	74.00	---	54.00
9 648.28	29.16	40.06	---	---	---	200	H	336	10.90	33.94	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11g\_2437**



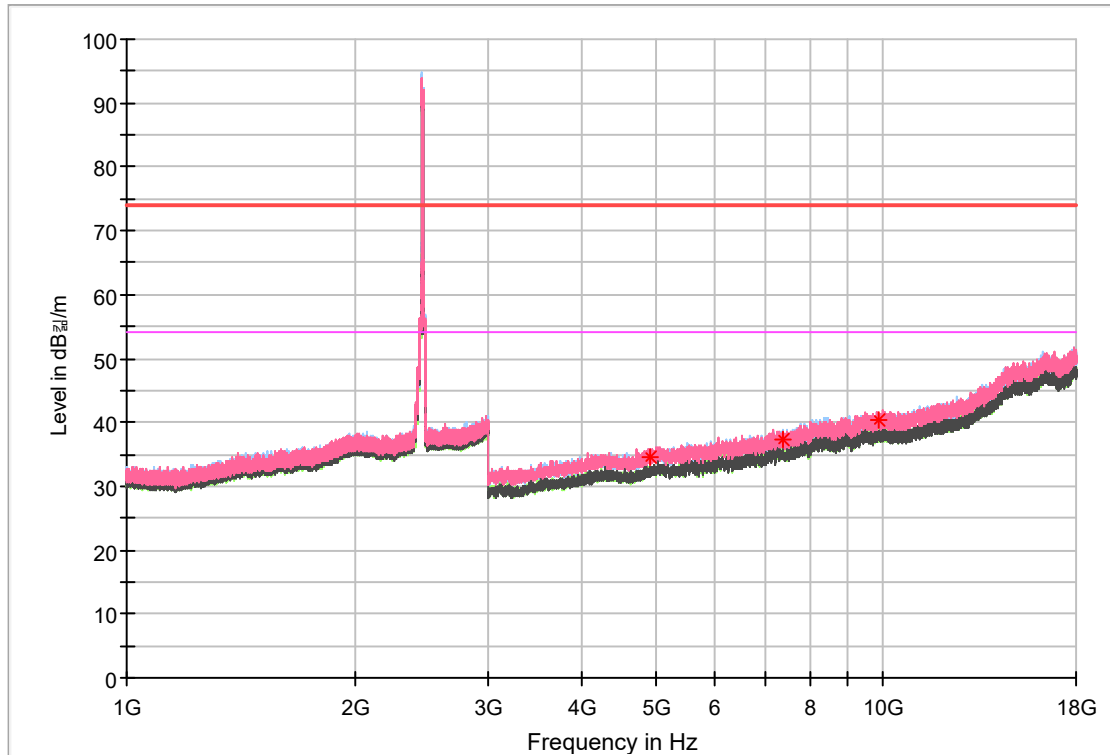
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 874.06	32.70	35.80	---	---	---	200	V	56	3.10	38.20	74.00	---	54.00
7 311.09	29.71	38.01	---	---	---	300	V	200	8.30	35.99	74.00	---	54.00
9 748.13	29.25	40.05	---	---	---	200	H	0	10.80	33.95	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11g\_2462**



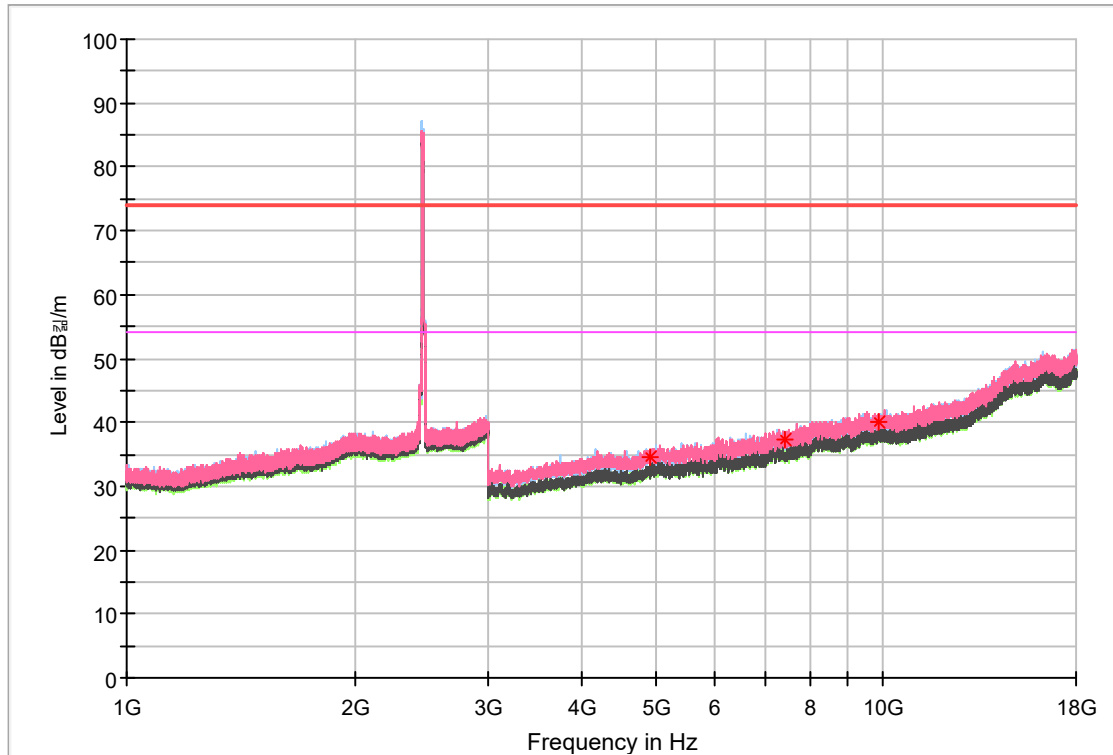
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 924.22	31.39	34.59	---	---	---	300	V	335	3.20	39.41	74.00	---	54.00
7 386.09	29.12	37.42	---	---	---	200	V	256	8.30	36.58	74.00	---	54.00
9 848.44	29.35	40.45	---	---	---	200	V	208	11.10	33.55	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11g\_2467**



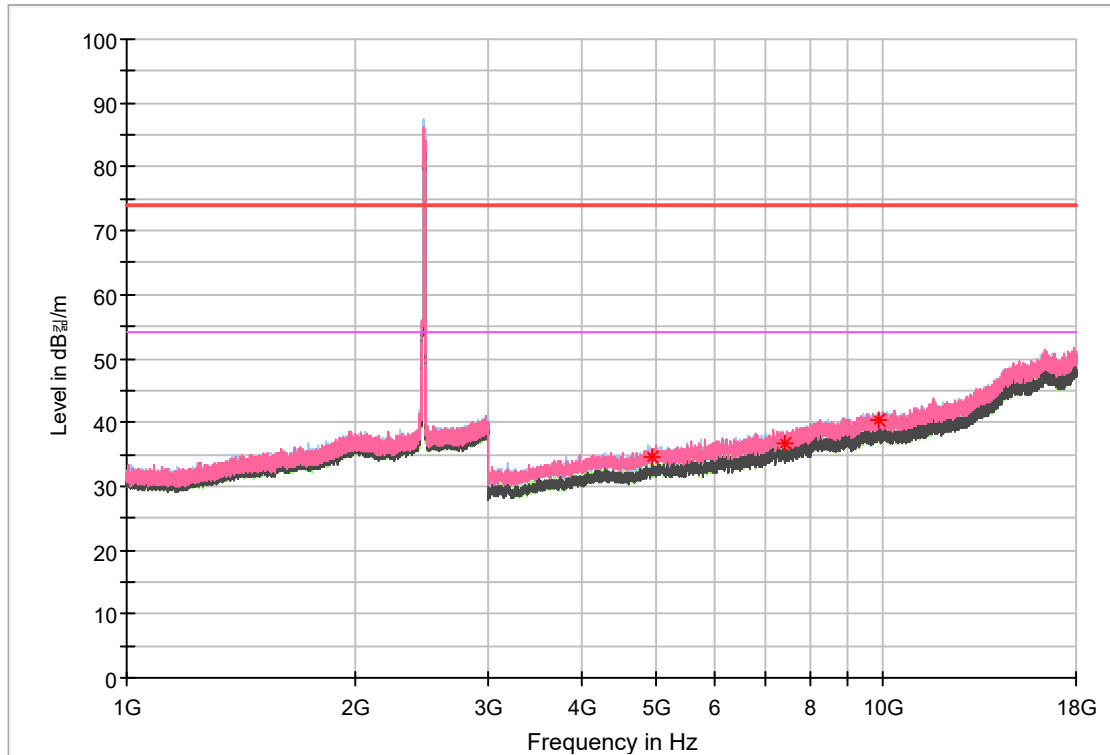
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 934.06	31.33	34.53	---	---	---	200	H	1	3.20	39.47	74.00	---	54.00
7 401.09	29.03	37.23	---	---	---	200	H	261	8.20	36.77	74.00	---	54.00
9 868.13	28.86	40.06	---	---	---	300	V	204	11.20	33.94	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11g\_2472**



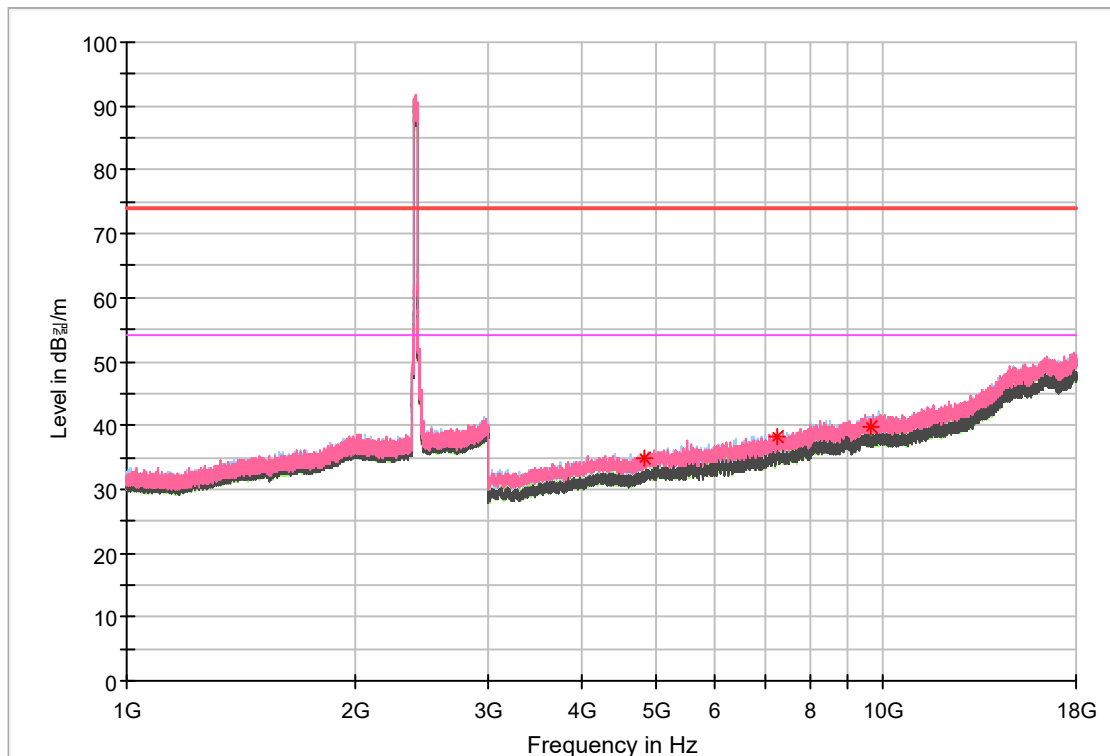
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 943.91	31.11	34.41	---	---	---	300	V	309	3.30	39.59	74.00	---	54.00
7 416.09	28.45	36.75	---	---	---	200	V	0	8.30	37.25	74.00	---	54.00
9 888.28	29.14	40.44	---	---	---	300	H	64	11.30	33.56	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11n(HT20)\_2412**



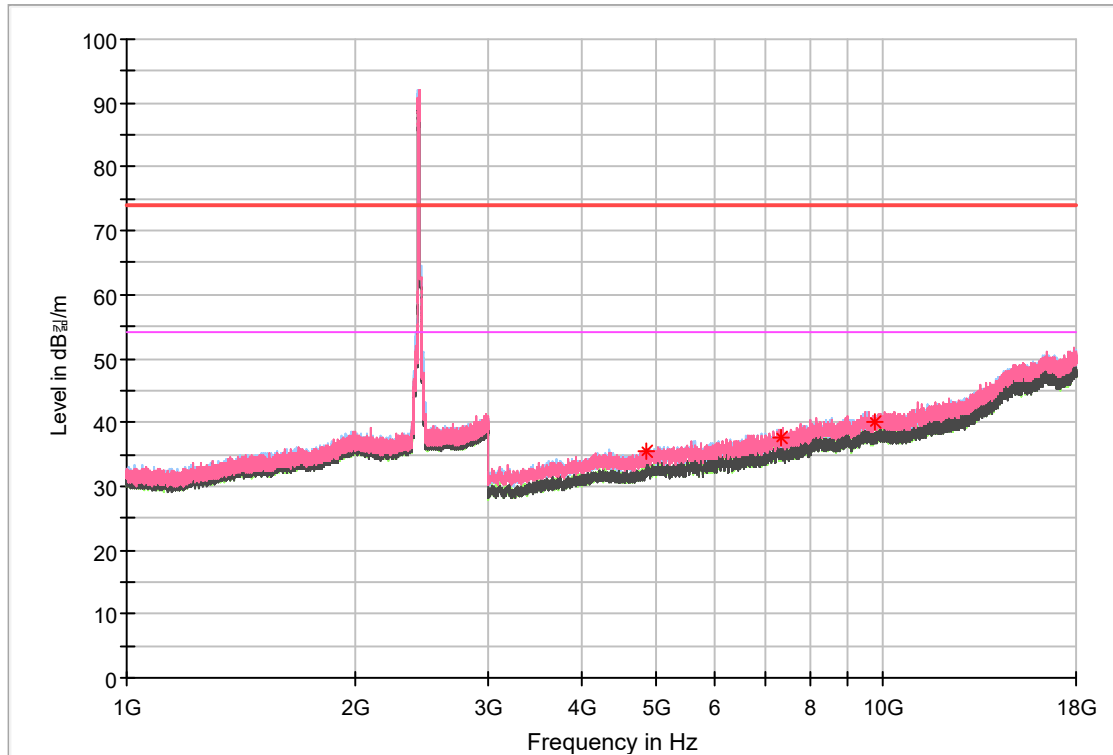
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 823.44	32.07	34.87	---	---	---	300	V	330	2.80	39.13	74.00	---	54.00
7 236.09	30.24	38.34	---	---	---	300	H	158	8.10	35.66	74.00	---	54.00
9 648.28	28.91	39.81	---	---	---	200	V	158	10.90	34.19	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11n(HT20)\_2437**



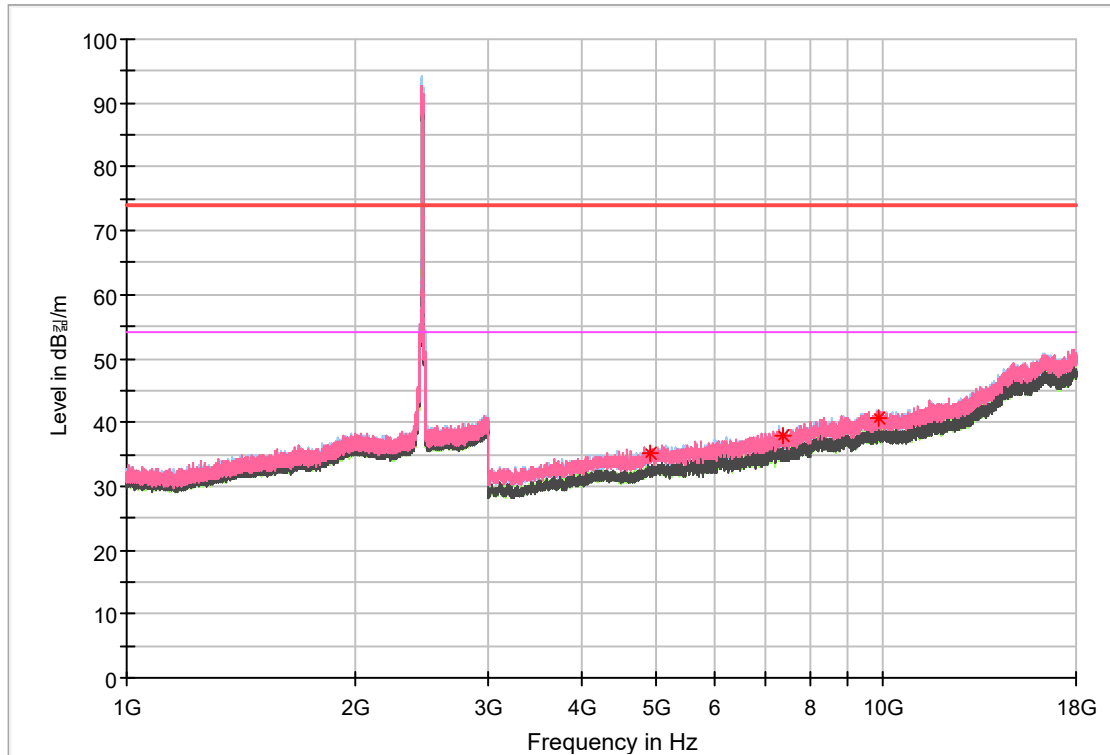
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 873.59	32.42	35.52	---	---	---	200	V	127	3.10	38.48	74.00	---	54.00
7 311.56	29.37	37.67	---	---	---	300	H	111	8.30	36.33	74.00	---	54.00
9 748.13	29.12	39.92	---	---	---	200	V	231	10.80	34.08	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11n(HT20)\_2462**



Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 923.28	32.11	35.31	---	---	---	200	V	286	3.20	38.69	74.00	---	54.00
7 386.56	29.55	37.85	---	---	---	200	H	255	8.30	36.15	74.00	---	54.00
9 848.44	29.60	40.70	---	---	---	200	H	255	11.10	33.30	74.00	---	54.00

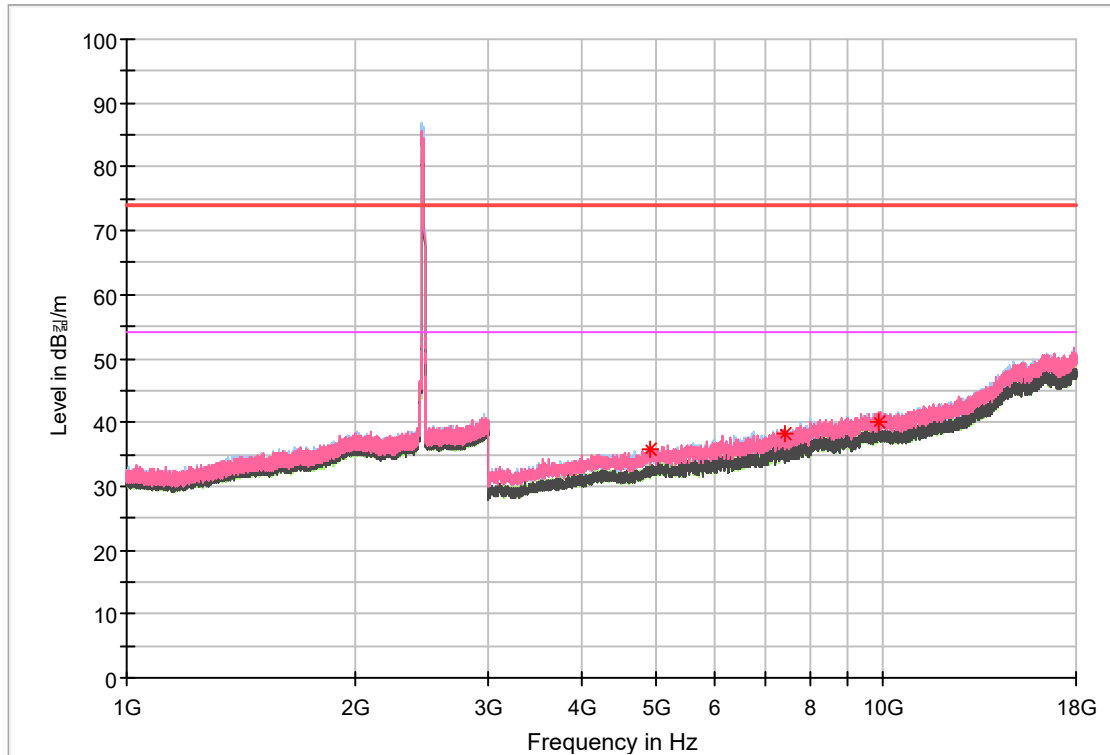
**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)





**RSE\_2.4 GHz WLAN\_802.11n(HT20)\_2467**



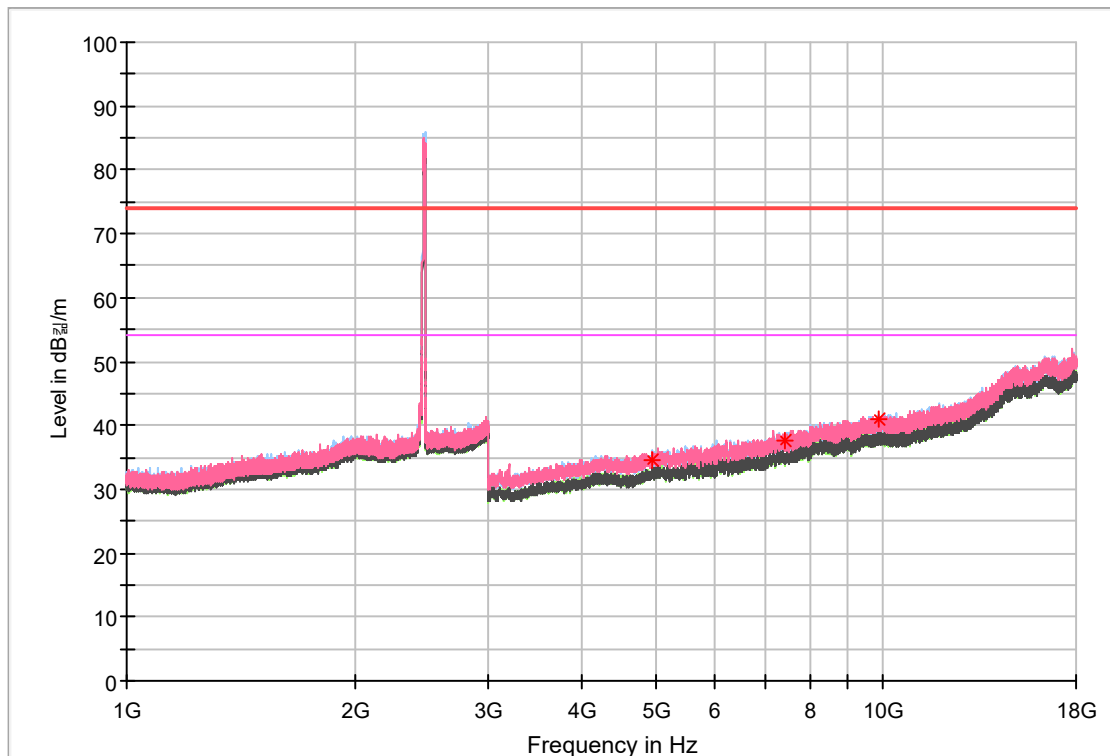
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 934.06	32.50	35.70	---	---	---	200	V	76	3.20	38.30	74.00	---	54.00
7 400.63	30.12	38.32	---	---	---	200	V	53	8.20	35.68	74.00	---	54.00
9 868.13	28.95	40.15	---	---	---	200	V	308	11.20	33.85	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**RSE\_2.4 GHz WLAN\_802.11n(HT20)\_2472**



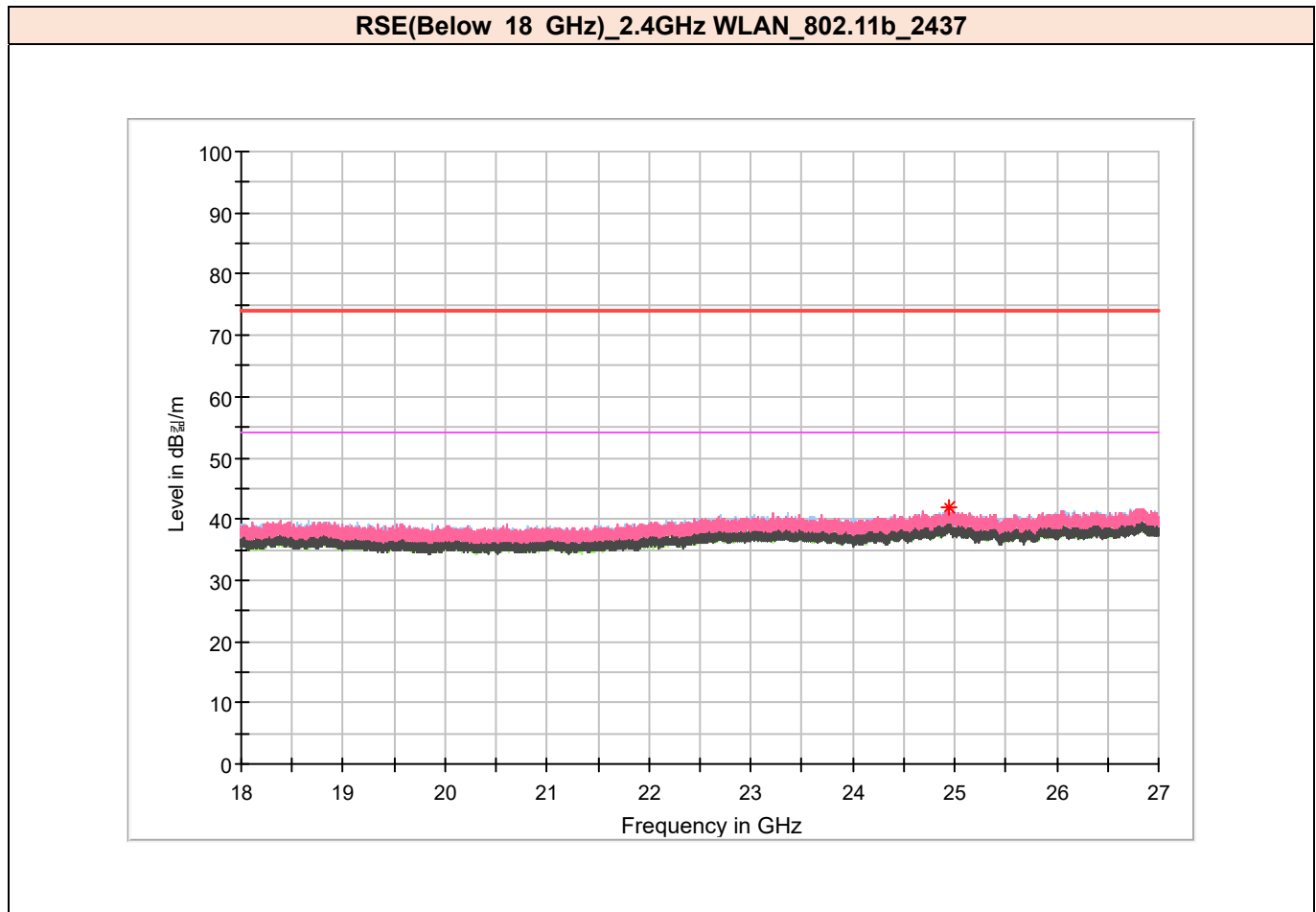
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
4 943.91	31.12	34.42	---	---	---	300	H	16	3.30	39.58	74.00	---	54.00
7 415.63	29.44	37.74	---	---	---	200	V	13	8.30	36.26	74.00	---	54.00
9 888.28	29.63	40.93	---	---	---	300	V	157	11.30	33.07	74.00	---	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



### 3.5.5.4 Radiated Emissions (Above 18 GHz)



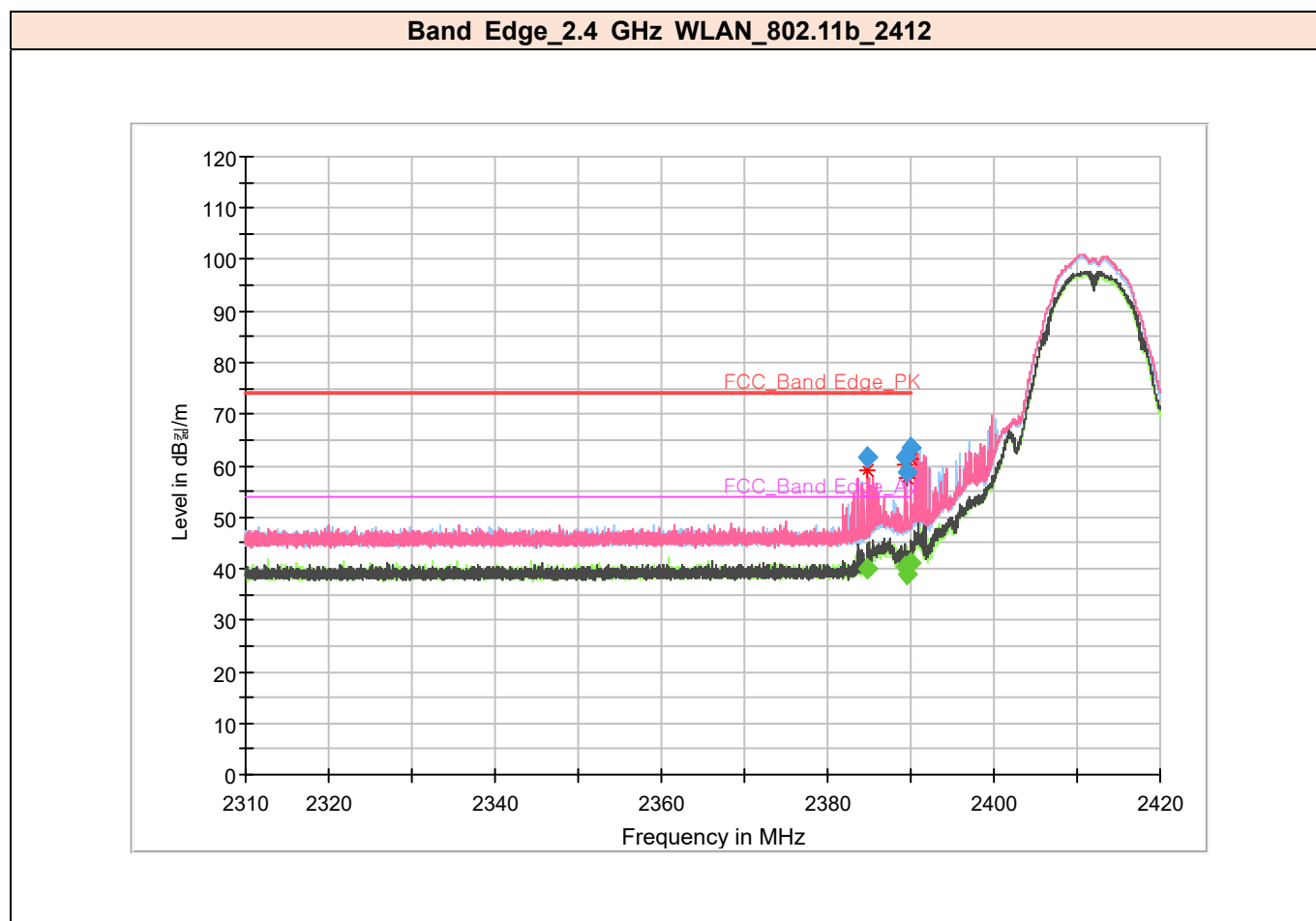
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
24 942.38	40.05	41.85	-	-	-	300	H	152	1.80	32.15	74.00	-	-

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



### 3.5.5.5 Restricted Band Edge Measurements



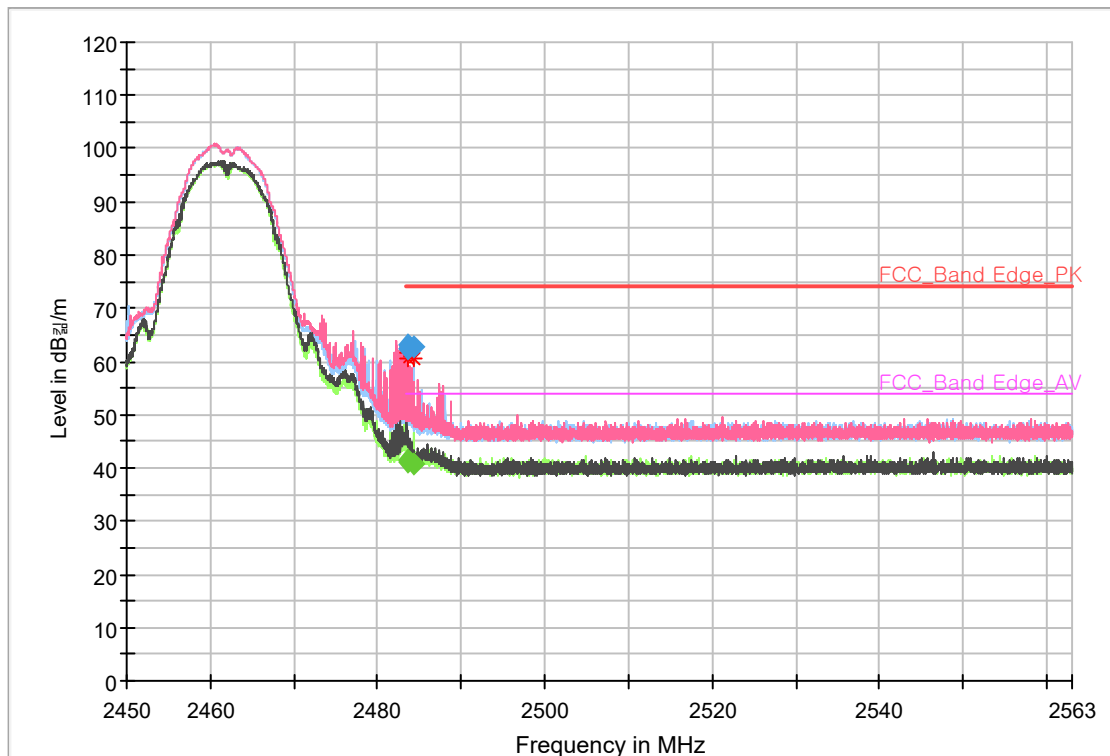
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 384.72	58.30	61.60	---	---	---	175	V	273	3.30	12.40	74.00	---	54.00
2 384.72	---	---	36.70	40.00	---	175	V	273	3.30	---	74.00	14.00	54.00
2 389.33	58.19	61.49	---	---	---	251	V	303	3.30	12.51	74.00	---	54.00
2 389.33	---	---	37.23	40.53	---	251	V	303	3.30	---	74.00	13.47	54.00
2 389.55	55.55	58.85	---	---	---	250	H	130	3.30	15.15	74.00	---	54.00
2 389.55	---	---	35.55	38.85	---	250	H	130	3.30	---	74.00	15.15	54.00
2 389.96	60.15	63.45	---	---	---	164	H	81	3.30	10.55	74.00	---	54.00
2 389.96	---	---	37.85	41.15	---	164	H	81	3.30	---	74.00	12.85	54.00

#### Remarks

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11b\_2462**



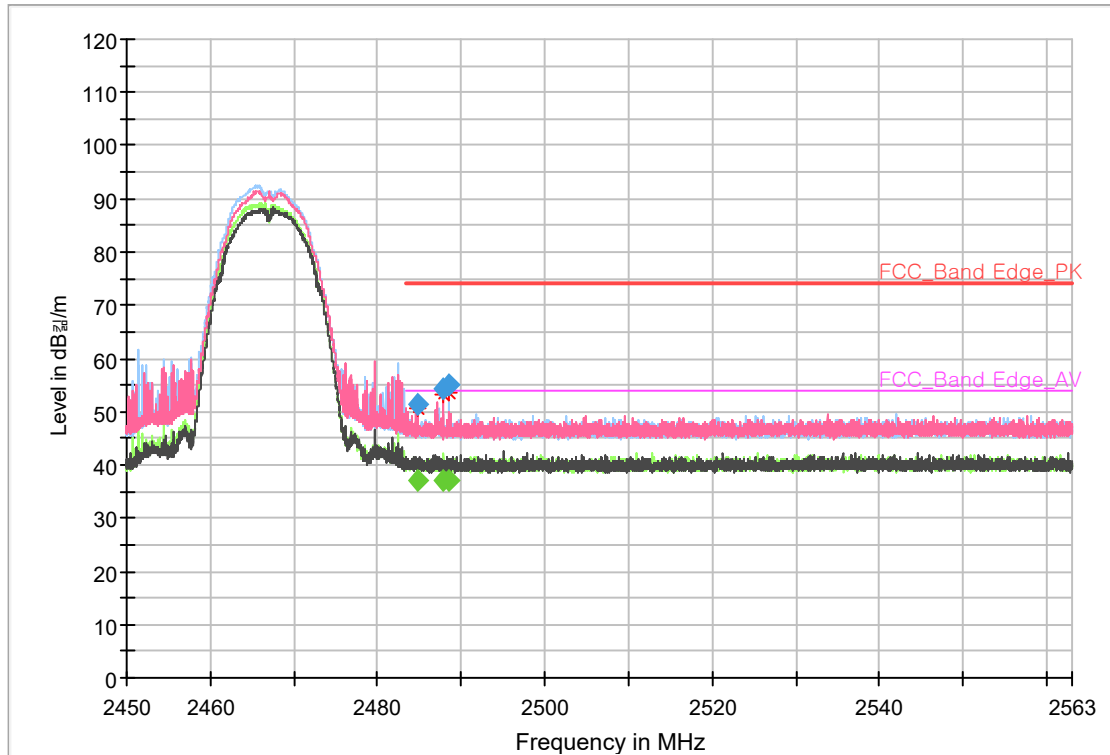
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.53	59.25	63.15	---	---	---	150	H	131	3.90	10.85	74.00	---	54.00
2 483.53	---	---	37.74	41.64	---	150	H	131	3.90	---	74.00	12.36	54.00
2 483.65	58.45	62.35	---	---	---	199	V	342	3.90	11.65	74.00	---	54.00
2 483.65	---	---	37.36	41.26	---	199	V	342	3.90	---	74.00	12.74	54.00
2 484.39	58.87	62.77	---	---	---	163	H	278	3.90	11.23	74.00	---	54.00
2 484.39	---	---	36.78	40.68	---	163	H	278	3.90	---	74.00	13.32	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11b\_2467**



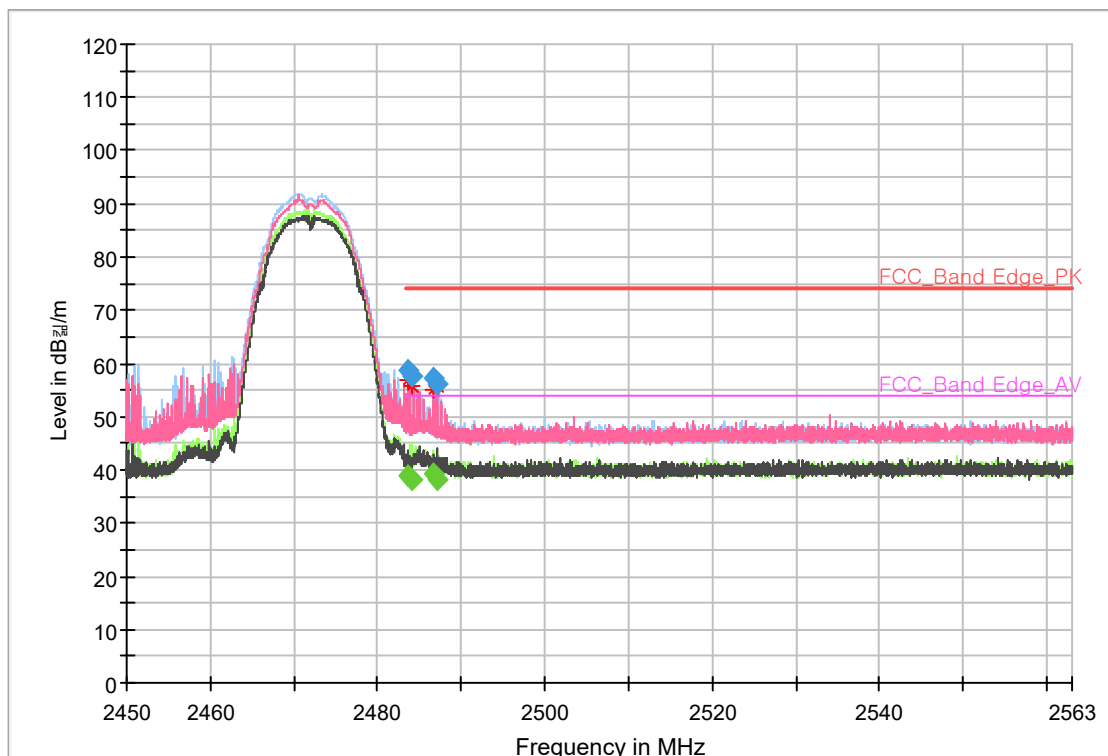
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 484.72	47.50	51.40	---	---	---	316	V	52	3.90	22.60	74.00	---	54.00
2 484.72	---	---	33.29	37.19	---	316	V	52	3.90	---	74.00	16.81	54.00
2 487.74	50.27	54.17	---	---	---	151	V	48	3.90	19.83	74.00	---	54.00
2 487.74	---	---	33.17	37.07	---	151	V	48	3.90	---	74.00	16.93	54.00
2 488.43	51.09	54.99	---	---	---	151	H	96	3.90	19.01	74.00	---	54.00
2 488.43	---	---	33.19	37.09	---	151	H	96	3.90	---	74.00	16.91	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11b\_2472**



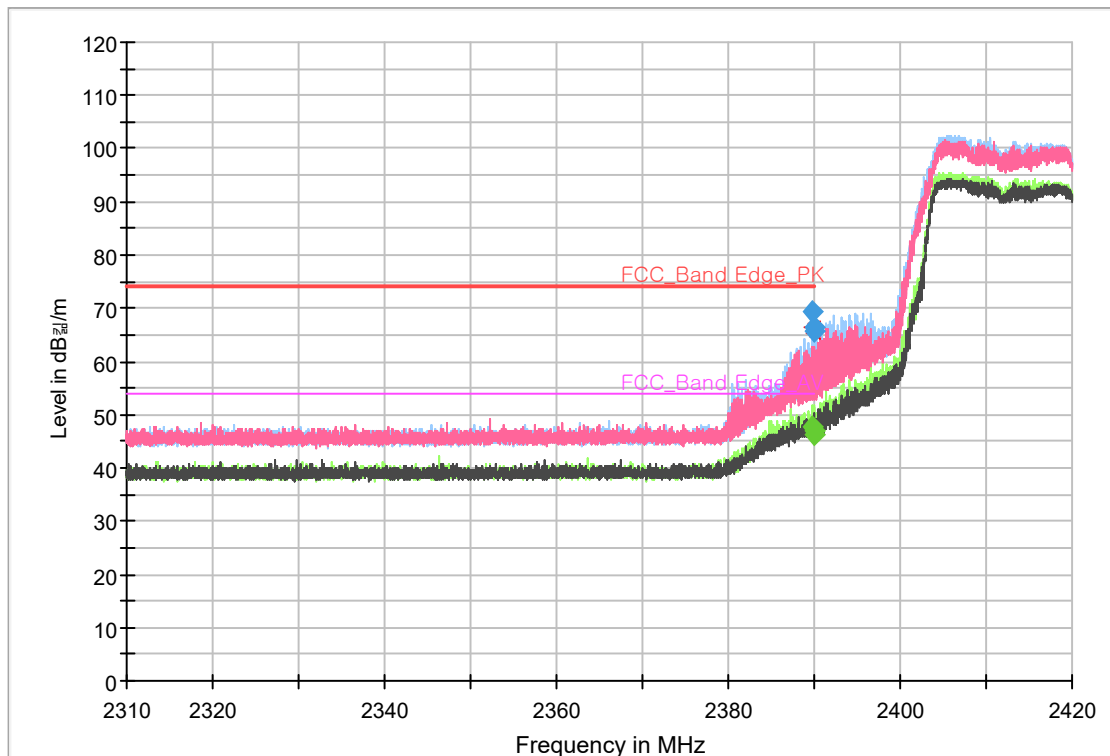
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.72	54.64	58.54	---	---	---	152	V	271	3.90	15.46	74.00	---	54.00
2 483.72	---	---	35.11	39.01	---	152	V	271	3.90	---	74.00	14.99	54.00
2 483.98	53.75	57.65	---	---	---	290	H	57	3.90	16.35	74.00	---	54.00
2 483.98	---	---	34.43	38.33	---	290	H	57	3.90	---	74.00	15.67	54.00
2 486.76	53.29	57.19	---	---	---	250	H	121	3.90	16.81	74.00	---	54.00
2 486.76	---	---	35.24	39.14	---	250	H	121	3.90	---	74.00	14.86	54.00
2 487.08	52.08	55.98	---	---	---	289	V	304	3.90	18.02	74.00	---	54.00
2 487.08	---	---	34.44	38.34	---	289	V	304	3.90	---	74.00	15.66	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11g\_2412**



Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 389.73	66.07	69.37	---	---	---	150	H	260	3.30	4.63	74.00	---	54.00
2 389.73	---	---	44.37	47.99	0.32	150	H	260	3.30	---	74.00	6.01	54.00
2 389.90	63.27	66.57	---	---	---	195	V	278	3.30	7.43	74.00	---	54.00
2 389.90	---	---	43.11	46.73	0.32	195	V	278	3.30	---	74.00	7.27	54.00
2 389.99	62.23	65.53	---	---	---	151	H	288	3.30	8.47	74.00	---	54.00
2 389.99	---	---	43.59	47.21	0.32	151	H	288	3.30	---	74.00	6.79	54.00

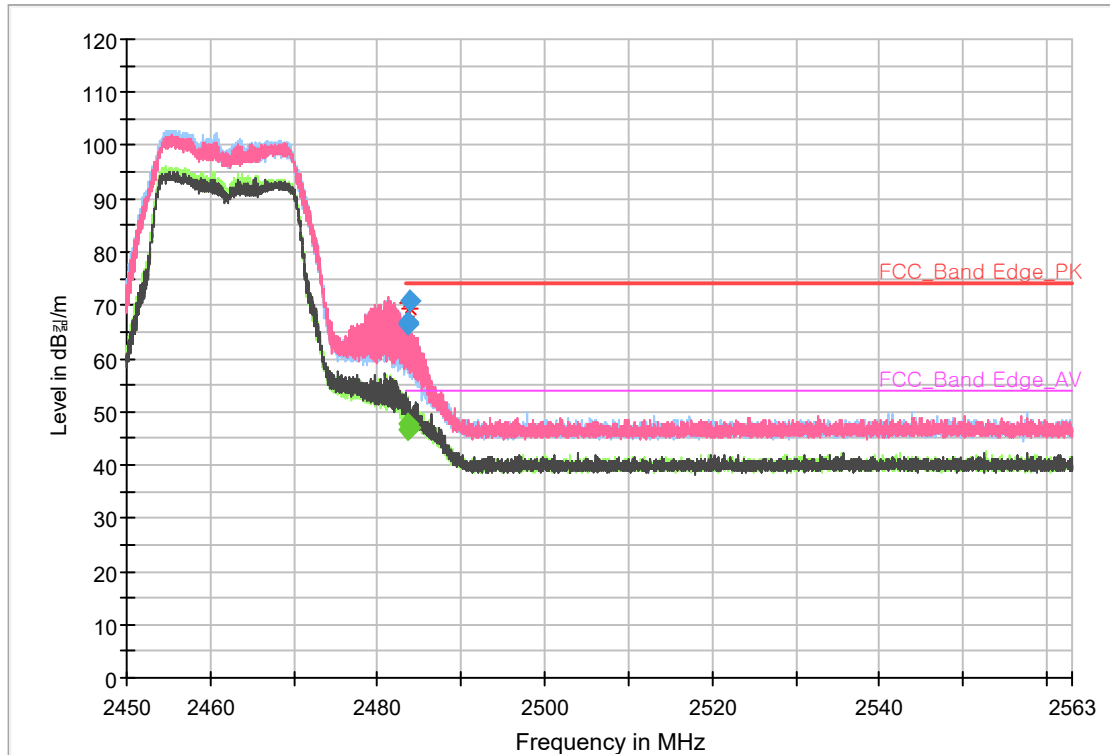
**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)





**Band Edge 2.4 GHz WLAN\_802.11g\_2462**



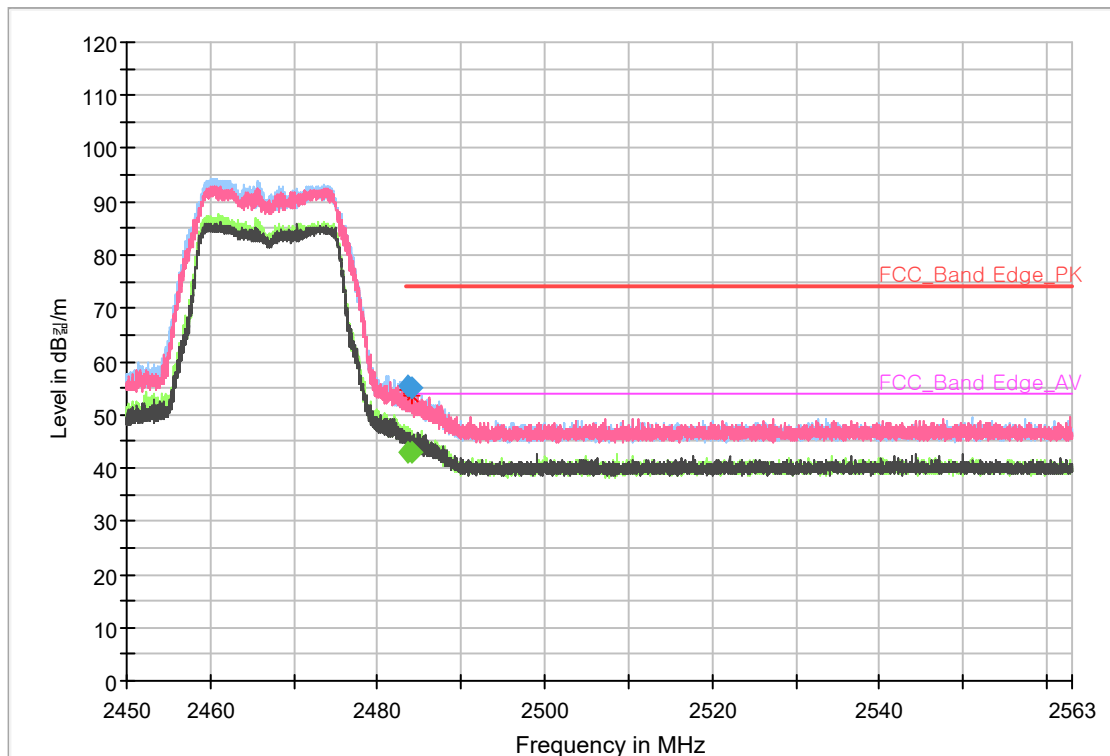
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.50	62.70	66.60	---	---	---	174	V	350	3.90	7.40	74.00	---	54.00
2 483.50	---	---	42.69	46.91	0.32	174	V	350	3.90	---	74.00	7.09	54.00
2 483.54	63.06	66.96	---	---	---	150	V	73	3.90	7.04	74.00	---	54.00
2 483.54	---	---	43.85	48.07	0.32	150	V	73	3.90	---	74.00	5.93	54.00
2 483.75	66.76	70.66	---	---	---	346	H	121	3.90	3.34	74.00	---	54.00
2 483.75	---	---	42.90	47.12	0.32	346	H	121	3.90	---	74.00	6.88	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11g\_2467**



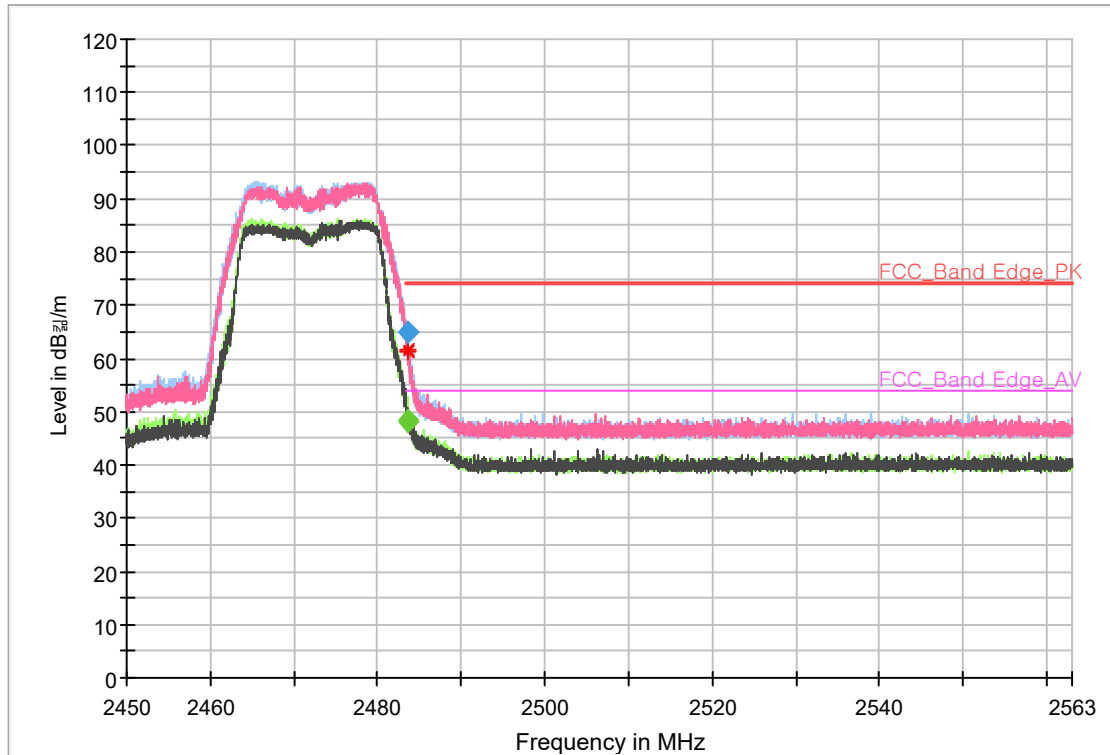
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.52	51.46	55.36	---	---	---	150	H	99	3.90	18.64	74.00	---	54.00
2 483.52	---	---	39.11	43.33	0.32	150	H	99	3.90	---	74.00	10.67	54.00
2 484.08	51.23	55.13	---	---	---	184	V	290	3.90	18.87	74.00	---	54.00
2 484.08	---	---	39.14	43.36	0.32	184	V	290	3.90	---	74.00	10.64	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11g\_2472**



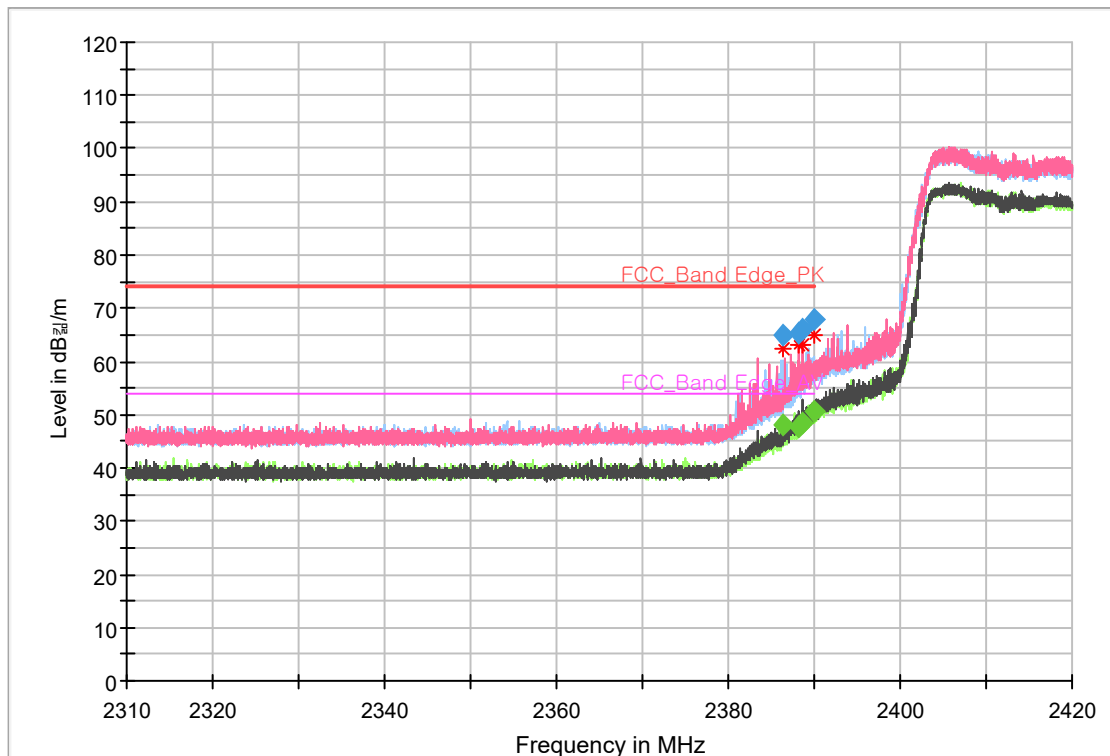
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.52	60.94	64.84	---	---	---	286	H	86	3.90	9.16	74.00	---	54.00
2 483.52	---	---	44.22	48.44	0.32	286	H	86	3.90	---	74.00	5.56	54.00
2 483.57	60.91	64.81	---	---	---	304	V	58	3.90	9.19	74.00	---	54.00
2 483.57	---	---	44.40	48.62	0.32	304	V	58	3.90	---	74.00	5.38	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11n(HT20)\_2412**



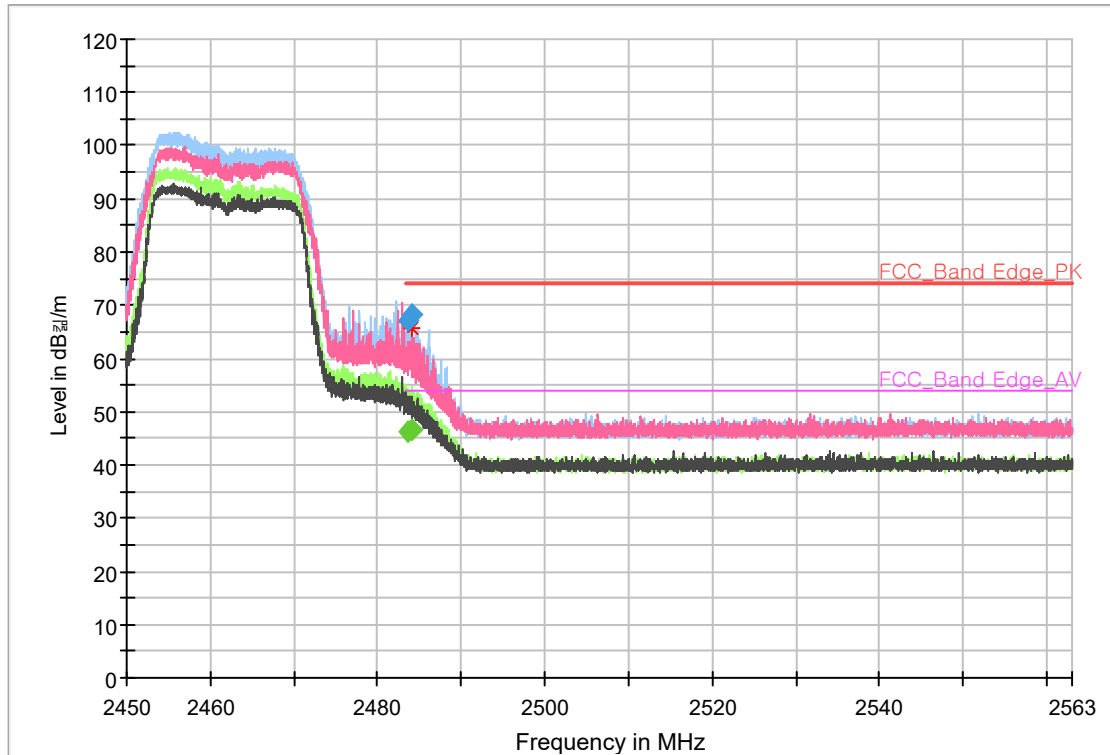
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 386.42	61.78	65.08	---	---	---	163	H	271	3.30	8.92	74.00	---	54.00
2 386.42	---	---	44.68	48.33	0.35	163	H	271	3.30	---	74.00	5.67	54.00
2 388.13	62.11	65.41	---	---	---	251	V	272	3.30	8.59	74.00	---	54.00
2 388.13	---	---	44.46	48.11	0.35	251	V	272	3.30	---	74.00	5.89	54.00
2 388.72	62.59	65.89	---	---	---	263	V	297	3.30	8.11	74.00	---	54.00
2 388.72	---	---	45.29	48.94	0.35	263	V	297	3.30	---	74.00	5.06	54.00
2 389.89	64.62	67.92	---	---	---	162	H	271	3.30	6.08	74.00	---	54.00
2 389.89	---	---	47.34	50.99	0.35	162	H	271	3.30	---	74.00	3.01	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11n(HT20)\_2462**



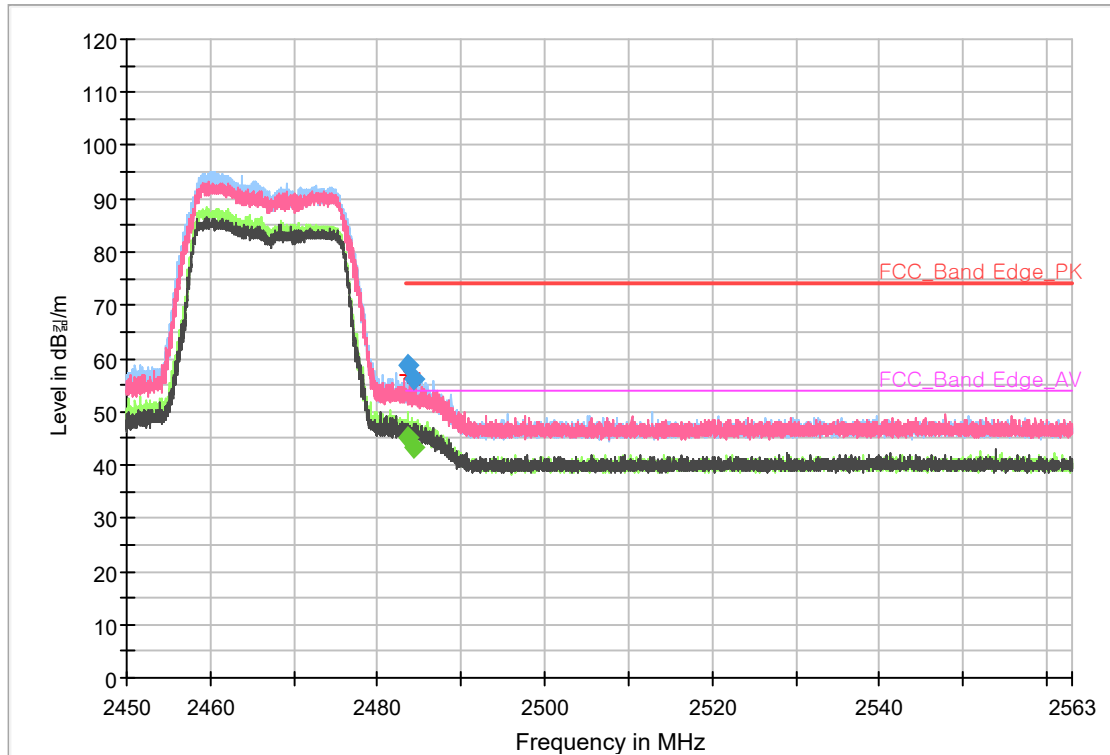
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.54	63.29	67.19	---	---	---	316	H	262	3.90	6.81	74.00	---	54.00
2 483.54	---	---	42.43	46.68	0.35	316	H	262	3.90	---	74.00	7.32	54.00
2 484.10	64.38	68.28	---	---	---	286	V	311	3.90	5.72	74.00	---	54.00
2 484.10	---	---	42.81	47.06	0.35	286	V	311	3.90	---	74.00	6.94	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11n(HT20)\_2467**



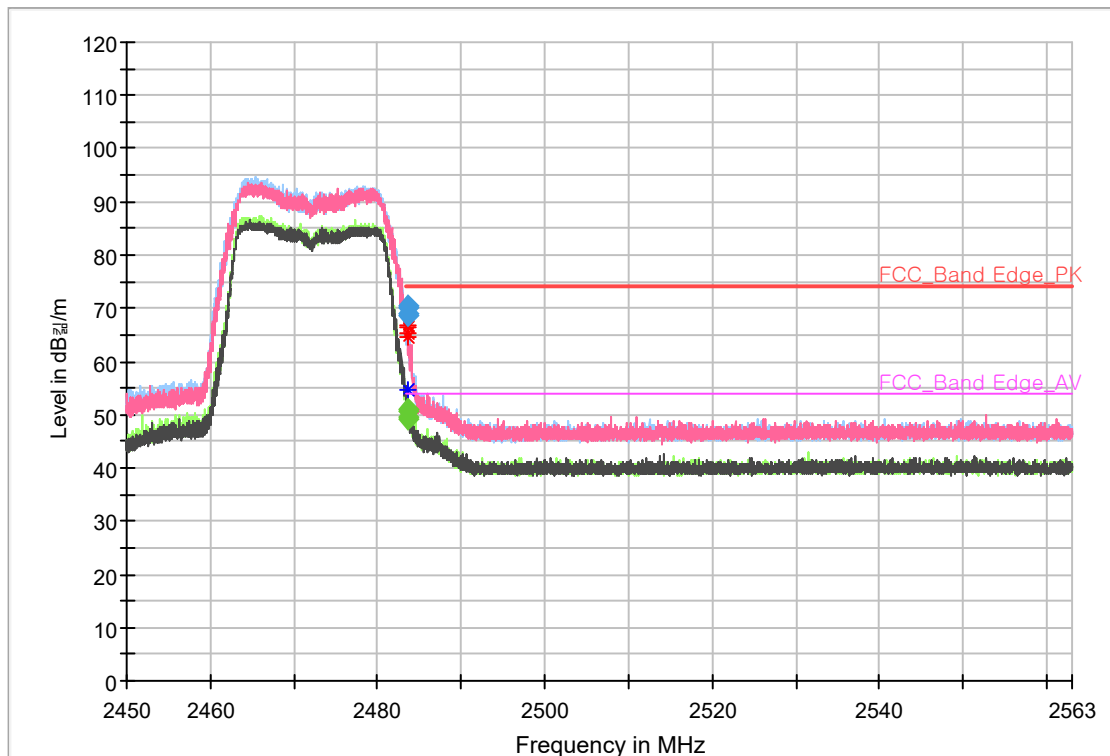
Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.62	54.77	58.67	---	---	---	150	H	269	3.90	15.33	74.00	---	54.00
2 483.62	---	---	41.42	45.67	0.35	150	H	269	3.90	---	74.00	8.33	54.00
2 484.24	52.31	56.21	---	---	---	162	V	272	3.90	17.79	74.00	---	54.00
2 484.24	---	---	39.33	43.58	0.35	162	V	272	3.90	---	74.00	10.42	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



**Band Edge\_2.4 GHz WLAN\_802.11n(HT20)\_2472**



Frequency [MHz]	Peak Reading Value [dBuV]	Peak Result [dBuV/m]	AVG Reading Value [dBuV]	AVG Result [dBuV/m]	DCCF [dB]	Height [cm]	Pol [H/V]	Azimuth [deg]	Correction Factor [dB/m]	Peak Margin [dB]	Peak Limit [dBuV/m]	AVG Margin [dB]	AVG Limit [dBuV/m]
2 483.52	66.61	70.51	---	---	---	150	H	266	3.90	3.49	74.00	---	54.00
2 483.52	---	---	47.25	51.50	0.35	150	H	266	3.90	---	74.00	2.50	54.00
2 483.53	65.15	69.05	---	---	---	285	V	58	3.90	4.95	74.00	---	54.00
2 483.53	---	---	45.69	49.94	0.35	285	V	58	3.90	---	74.00	4.06	54.00
2 483.54	66.14	70.04	---	---	---	151	H	261	3.90	3.96	74.00	---	54.00
2 483.54	---	---	46.91	51.16	0.35	151	H	261	3.90	---	74.00	2.84	54.00
2 483.61	64.61	68.51	---	---	---	175	V	286	3.90	5.49	74.00	---	54.00
2 483.61	---	---	45.28	49.53	0.35	175	V	286	3.90	---	74.00	4.47	54.00

**Remarks**

1. Peak Result(dBuV/m) = Peak Reading Value(dBuV) + Correction Factor(dB/m)
2. AVG Result(dBuV/m) = AVG Reading Value(dBuV) + DCCF + Correction Factor(dB/m)
3. DCCF(Duty Cycle Correction Factor) = 10 x Log(1/Duty Cycle)
4. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + Distance Factor (dB)
5. Margin(dB) = (Peak/AVG) Result (dBuV/m) – (Peak/AVG) Limit (dBuV/m)



### 3.5.6 Test Result of Conducted Spurious Emission

802.11b





