



# FCC/IC Test Report

**FOR:**

**Company: Trimble Navigation Limited**

**Model Name: 88951**

**FCC ID: JUP616**

**IC ID: 1756A-616**

**47 CFR Part 15.247 for DTS Systems**

**IC RSS-210 Issue 8**

**TEST REPORT #: EMC\_TRIM2\_001\_09001\_15.247WLAN\_616\_rev1**

**DATE: 2013-10-09**



**FCC listed  
A2LA Accredited**

**IC recognized #  
3462B**

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**1 Assessment**

**The following device was tested against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and Industry Canada Standards RSS 210 Issue 7 and no deviations were ascertained during the course of the tests performed.**

Company	Description	Model #
Trimble Navigation Limited	GeoExplorer 6000 Series: GeoXH / GeoXT Handheld	88951

**Responsible for Testing Laboratory:**

2013-10-09	Compliance	Franz Engert (Manager of Compliance)	
Date	Section	Name	Signature

**Responsible for the Report:**

2013-10-09	Compliance	Josie Sabado (Project Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section 3. CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

## 2 Administrative Data

### 2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

<b>Company Name:</b>	CETECOM Inc.
<b>Department:</b>	Compliance
<b>Address:</b>	411 Dixon Landing Road Milpitas, CA 95035 U.S.A.
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<b>Test Lab Director:</b>	Heiko Strehlow
<b>Responsible Project Leader:</b>	Josie Sabado

### 2.2 Identification of the Client

<b>Applicant's Name:</b>	Trimble Navigation Limited
<b>Street Address:</b>	935 Stewart Drive
<b>City/Zip Code</b>	Sunnyvale, CA 94088-3642
<b>Country</b>	United States
<b>Contact Person:</b>	Roy Cann
<b>Phone No.</b>	+1-408-481-8284
<b>e-mail:</b>	Roy.Cann@Trimble.com

### 2.3 Identification of the Manufacturer

<b>Manufacturer's Name:</b>	Trimble Navigation New Zealand Ltd
<b>Manufacturers Address:</b>	11 Birmingham Drive, Riccarton
<b>City/Zip Code</b>	Christchurch, Canterbury 8024
<b>Country</b>	New Zealand



### 3 Equipment under Test (EUT)

#### 3.1 Specification of the Equipment under Test

<b>Marketing Name:</b>	GeoExplorer 6000 Series
<b>Model No:</b>	88951
<b>Product Type:</b>	Portable
<b>Product Description:</b>	GeoExplorer 6000 Series: GeoXH / GeoXT Handheld
<b>Modes of Operation:</b>	GSM/(E)GPRS/WCDMA 802.11 b/g Bluetooth + 2.1 EDR GPS (Receive only)
<b>Hardware Revision :</b>	1
<b>Software Revision :</b>	OS 6.5.1 (Build 20192) Nov 8 2010
<b>FCC-ID:</b>	JUP616
<b>IC-ID :</b>	1756A-616
<b>Frequency:</b>	GSM 850: 824.2-848.8MHz PCS 1900: 1850.2-1909.8MHz FDD V: 826.4-846.6MHz FDD II: 1852.4-1907.6MHz 802.11 b/g: 2400-2483.5MHz Bluetooth: 2400-2483.5MHz GPS: 1575.42MHz, 1227.60MHz
<b>Type(s) of Modulation:</b>	802.11b/g: CCK, BPSK, QPSK, 16QAM, 64QAM Bluetooth: GFSK, DQPSK, 8DPSK WWAN 2G: GMSK, 8PSK WWAN 3G: QPSK, 16QAM
<b>Number of channels:</b>	GSM850: 125 PCS 1900: 300 FDD II: 278 FDD V: 103 802.11 b/g: 11 Bluetooth: 79
<b>Antenna Type:</b>	Cellular: Cirocom PiFA Foil Antenna 802.11 b/g, Bluetooth: Pulse Antenna W3008 Omnidirectional, 1.7dBi
<b>Power Supply:</b>	11.1 VDC Li Ion Batt, AC Adapter
<b>Prototype /Production Unit:</b>	Production



**3.2 Identification of the Equipment under Test (EUT)**

EUT #	Serial Number	HW Version	SW Version
1	5043452638	1	OS 6.5.7 (Build 20192) Dec 20 2010

**3.3 Identification of Accessory equipment**

No accessory equipment.

**3.4 Test modes of operation:**

Worst case operation was determined for these data rates and modulations.

Mode	Data rate (Mbps)	Modulation scheme
802.11b	1.0	CCK
802.11g	6.0	BPSK

#### 4 Subject Of Investigation

The objective of the measurements done by Cetecom Inc. was to measure the performance of the EUT as specified by requirements listed in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Industry Canada rules RSS-210 Issue 7.

This test report is to support a request for new equipment authorization under the FCC ID **JUP616** and IC ID **1756A-616**.

All testing was performed on the product referred to in Section 3 as EUT.

This test report contains full radiated and conducted testing results as per

- 47 CFR Part 15: Title 47 of the Code of Federal Regulations: Chapter I-Federal Communications Commission subchapter A- General, Part 15- Radio Frequency Devices.
- RSS-210 Issue 7: Spectrum Management and Telecommunications- Radio Standards Specification. Low-power Licence-exempt radio communication devices (All frequency bands): Category 1 equipment.

During the testing process the EUT was tested on low, mid and high channels for all the supported modes of operation. For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.





**5 Summary of Measurement Results**

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§15.247(b)(4) RSS210 A8.4(2)	Antenna Gain	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(e) RSS210 A8.2(b)	Power Spectral Density	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(a)(1) RSS210 A8.1(b)	Carrier Frequency Separation	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(a)(1) RSS210 A8.1(d)	Number of Hopping Channels	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(a)(1)(iii) RSS210 A8.3(1)	Time of occupancy	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(a)(1) RSS210 A8.2(a)	Spectrum Bandwidth	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(b)(3) RSS210 A8.4(4)	Maximum Output Power	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(d) RSS210 A8.5	Band edge compliance-Conducted	Nominal	802.11b 802.11g	□	□	□	■	-
§15.247(d) RSS-Gen 7.2	Band edge compliance-Radiated	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(d) RSS210 A8.5	TX Spurious emissions-Conducted	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.247(d) RSS-Gen 7.2	TX Spurious emissions-Radiated	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.209(a) RSS Gen 7.2	TX Spurious Emissions Radiated<30MHz	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.109 RSS Gen	RX Spurious Emissions Radiated	Nominal	802.11b 802.11g	■	□	□	□	Complies
§15.107(a)	Conducted Emissions <30MHz	Nominal	802.11b 802.11g	■	□	□	□	Complies

Note: NA= Not Applicable; NP= Not Performed.

1. Band Edge compliance-conducted is NOT PERFORMED as the device passes radiated measurement.

## **6 Measurements**

### **6.1 Radiated Measurement Procedure**

#### **ANSI C63.4 Section 8.3.1.1: Exploratory radiated emission measurements**

Exploratory radiated measurements shall be performed at the measurement distance or at a closer distance than that specified for compliance to determine the emission characteristics of the EUT. At near distances, for EUTs of comparably small size, it is relatively easy to determine the spectrum signature of the EUT and, if applicable, the EUT configuration that produces the maximum level of emissions. A shielded room may be used for exploratory testing, but may have anomalies that can lead to significant errors in amplitude measurements.

Broadband antennas and a spectrum analyzer or a radio-noise meter with a panoramic display are often useful in this type of testing. It is recommended that either a headset or loudspeaker be connected as an aid in detecting ambient signals and finding frequencies of significant emission from the EUT when the exploratory and final testing is performed in an OATS with strong ambient signals. Caution should be taken if either antenna height between 1 and 4 meters or EUT azimuth is not fully explored. Not fully exploring these parameters during exploratory testing may require complete testing at the OATS or semi-anechoic chamber when the final full spectrum testing is conducted.

The EUT should be set up in its typical configuration and arrangement, and operated in its various modes. For tabletop systems, cables or wires should be manipulated within the range of likely arrangements. For floor-standing equipment, the cables or wires should be located in the same manner as the user would install them and no further manipulation is made. For combination EUTs, the tabletop and floor-standing portions of the EUT shall follow the procedures for their respective setups and cable manipulation. If the manner of cable installation is not known, or if it changes with each installation, cables or wires for floor-standing equipment shall be manipulated to the extent possible to produce the maximum level of emissions.

For each mode of operation required to be tested, the frequency spectrum shall be monitored. Variations in antenna height between 1 and 4 m, antenna polarization, EUT azimuth, and cable or wire placement (each variable within bounds specified elsewhere) shall be explored to produce the emission that has the highest amplitude relative to the limit. A step-by-step technique for determining this emission can be found in Annex C.

When measuring emissions above 1 GHz, the frequencies of maximum emission shall be determined by manually positioning the antenna close to the EUT and by moving the antenna over all sides of the EUT while observing a spectral display. It will be advantageous to have prior knowledge of the frequencies of emissions above 1 GHz. If the EUT is a device with dimensions approximately equal to that of the measurement antenna beamwidth, the measurement antenna shall be aligned with the EUT.

### **ANSI C63.4 Section 8.3.1.2: Final radiated emission measurements**

Based on the measurement results in 8.3.1.1, the one EUT, cable and wire arrangement, and mode of operation that produces the emission that has the highest amplitude relative to the limit is selected for the final measurement. The final measurement is then performed on a site meeting the requirements of 5.3, 5.4, or 5.5 as appropriate without variation of the EUT arrangement or EUT mode of operation. If the EUT is relocated from an exploratory test site to a final test site, the highest emission shall be remaximized at the final test location before final radiated emissions measurements are performed. However, antenna height and polarity and EUT azimuth are to be varied. In addition, the full frequency spectrum (for the range to be checked for meeting compliance) shall be investigated.

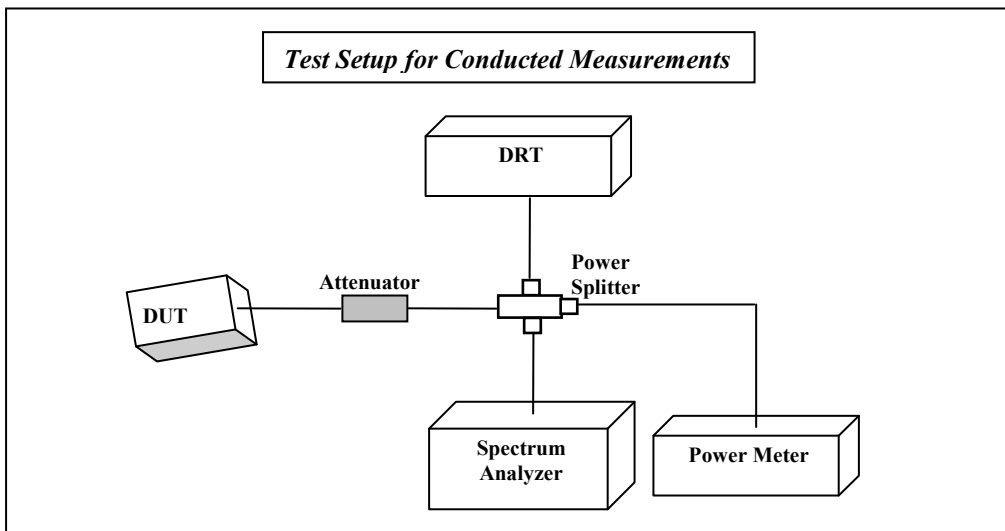
This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. During the full frequency spectrum investigation, particular focus should be made on those frequencies found in exploratory testing that were used to find the final test configuration, mode of operation, and arrangement (associated with achieving the least margin with respect to the limit). This full spectrum test constitutes the compliance measurement.

For measurements above 1 GHz, use the cable, EUT arrangement, and mode of operation determined in the exploratory testing to produce the emission that has the highest amplitude relative to the limit. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the antenna in the “cone of radiation” from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response. The antenna may have to be higher or lower than the EUT, depending on the EUT’s size and mounting height, but the antenna should be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. If the transmission line for the measurement antenna restricts its range of height and polarization, the steps needed to ensure the correct measurement of the maximum emissions, shall be described in detail in the report of measurements. Data collected shall satisfy the report requirements of Clause 10.

### **NOTES**

- 1— Where limits are specified by agencies for both average and peak (or quasi-peak) detection, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 2—Use of waveguide and flexible waveguide may be necessary at frequencies above 10 GHz to achieve usable signal-to noise ratios at required measurement distances. If so, it may be necessary to restrict the height search of the antenna, and special care should be taken to ensure that maximum emissions are correctly measured.
- 3—All presently known devices causing emissions above 10 GHz are physically small compared with the beam-widths of typical horn antennas used for EMC measurements. For such EUTs and frequencies, it may be preferable to vary the height and polarization of the EUT instead of the receiving antenna to maximize the measured emissions.

## 6.2 Conducted Measurement Procedure



1. Connect the equipment as shown in the above diagram.
2. Adjust the settings of the Digital Radio Communication Tester (DRT) to connect the EUT at the required channel (OR) alternatively use the EUT to set to transmit at a specific mode.
3. Measurements are to be performed with the EUT set to the low, middle and high channels.

### **6.3 Maximum Peak Output Power**

#### **6.3.1 Limits:**

##### **§15.247 (b)(3)**

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on antenna gain < 6dBi.

##### **RSS 210- A8.4(4)**

For systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

#### **6.3.2 Test Conditions:**

Tnom: 25°C; Vnom: AC

##### **Spectrum Analyzer settings:**

RBW=20MHz, VBW=30MHz, Detector: Peak- Max Hold.

Sweep Time: Auto

Span=40MHz

**Declared Antenna Gain (dBi): 1.7 dBi**



**6.3.3 Test Result:**

<b>Max Peak Output Power - Conducted (dBm)</b>			
<b>Mode</b>	<b>Frequency (MHz)</b>		
	<b>2412 Channel 1</b>	<b>2437 Channel 6</b>	<b>2462 Channel 11</b>
<b>802.11b</b>	20.78	20.81	20.72
<b>802.11g</b>	25.01	25.07	25.00
Measurement Uncertainty: ±0.5dB			

<b>Max Peak Output Power - Radiated (dBm)</b>			
<b>Mode</b>	<b>Frequency (MHz)</b>		
	<b>2412 Channel 1</b>	<b>2437 Channel 6</b>	<b>2462 Channel 11</b>
<b>802.11b</b>	22.48	22.51	22.42
<b>802.11g</b>	26.71	26.77	26.70
Measurement Uncertainty: ±3dB			

Note: Radiated EIRP is calculated as  
*Conducted Measurement + Antenna Gain*

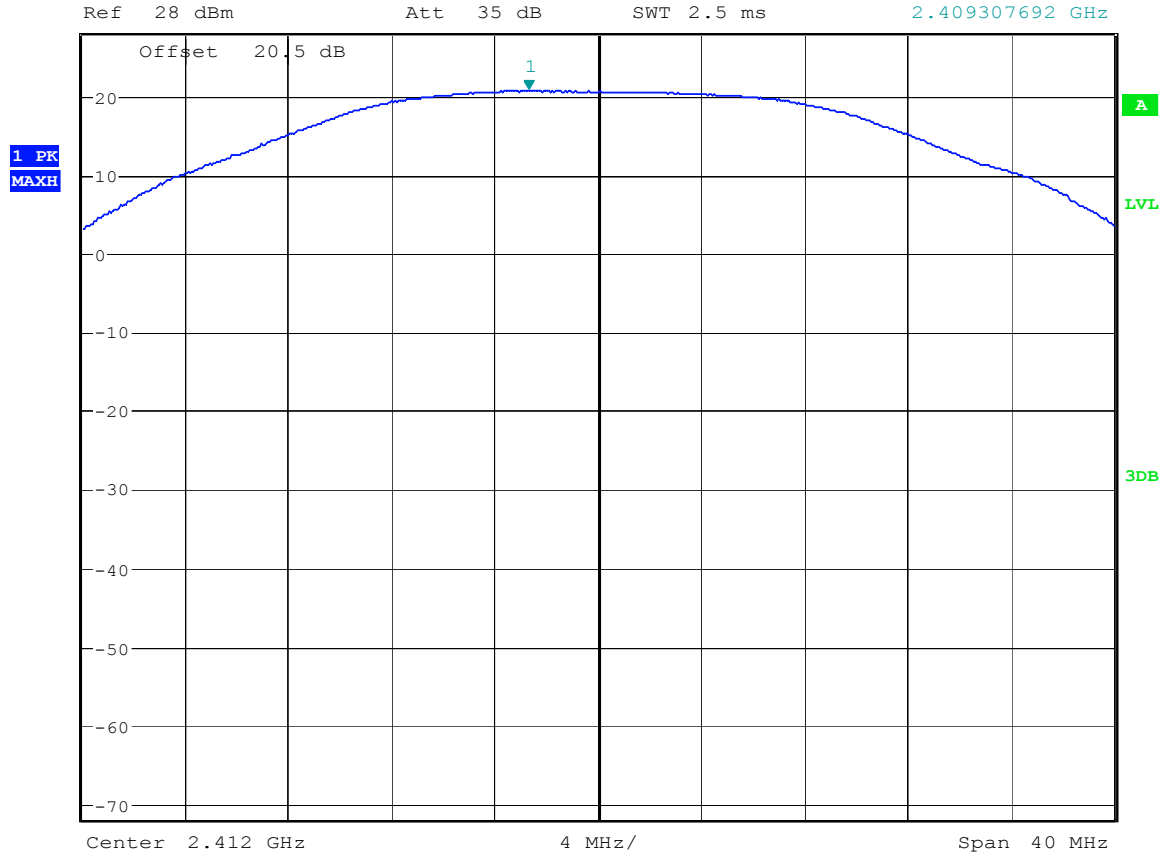
**6.3.4 Test Verdict**  
 Pass.



### 6.3.5 Test Data/plots: Conducted Peak Power 802.11b 2412 MHz



\* RBW 20 MHz      Marker 1 [T1 ]  
\* VBW 30 MHz      20.78 dBm  
SWT 2.5 ms      2.409307692 GHz



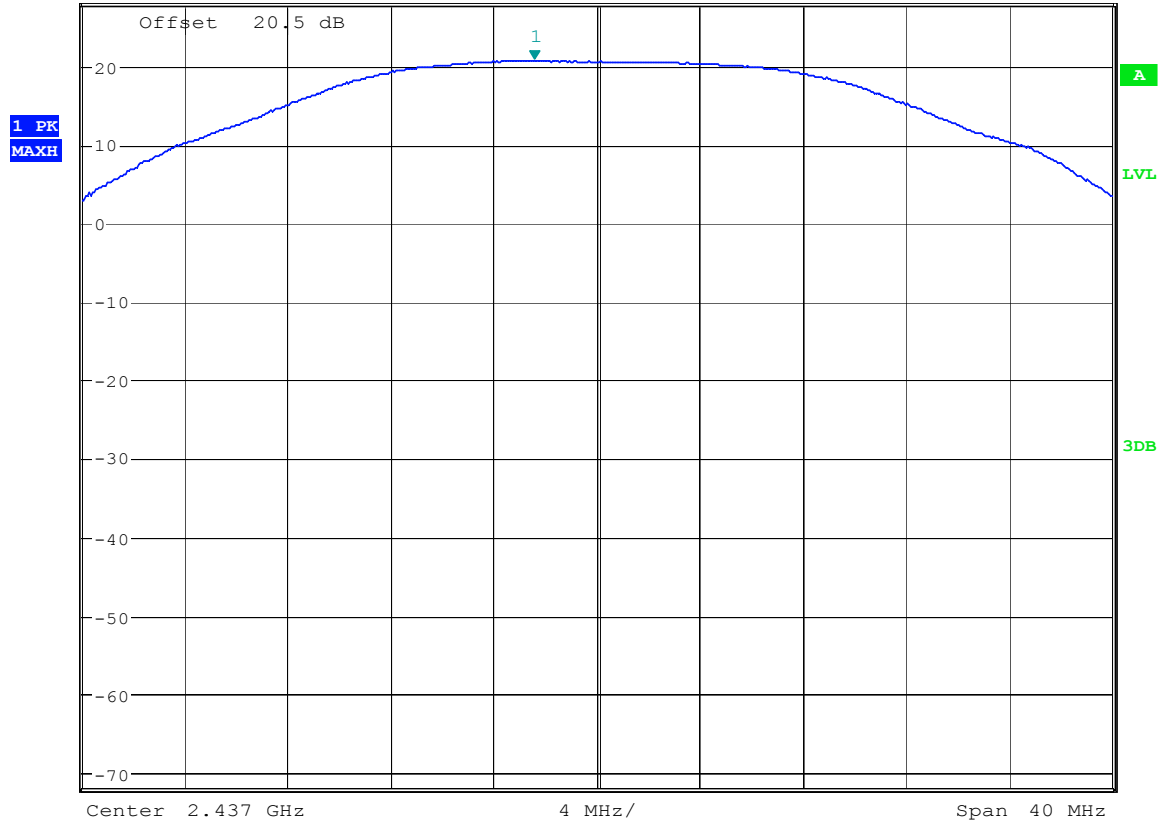
Date: 16.DEC.2010 13:08:28



### Conducted Peak Power 802.11b 2437 MHz



\* RBW 20 MHz      Marker 1 [T1 ]  
\* VBW 30 MHz      20.81 dBm  
Ref 28 dBm      Att 35 dB      SWT 2.5 ms      2.434564103 GHz



Date: 16.DEC.2010 13:10:35

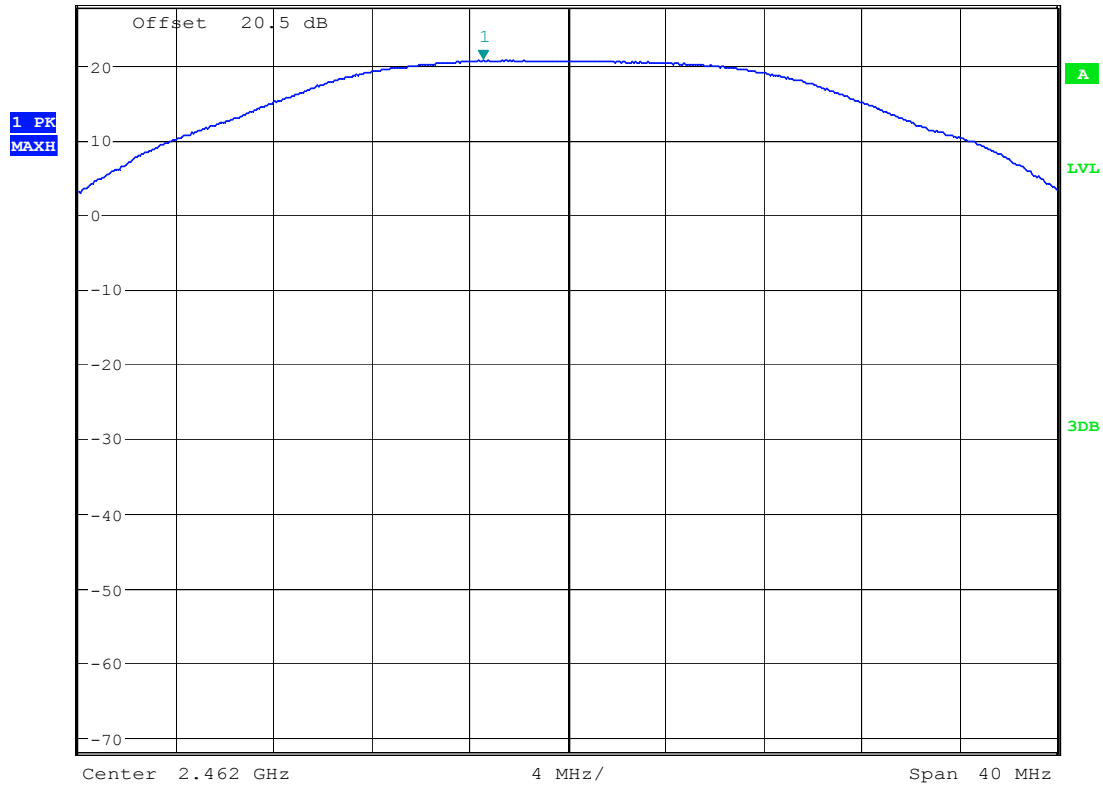




### Conducted Peak Power 802.11b 2462 MHz



\* RBW 20 MHz      Marker 1 [T1 ]  
\* VBW 30 MHz      20.72 dBm  
Ref 28 dBm      Att 35 dB      SWT 2.5 ms      2.458538462 GHz



Date: 16.DEC.2010 13:11:25



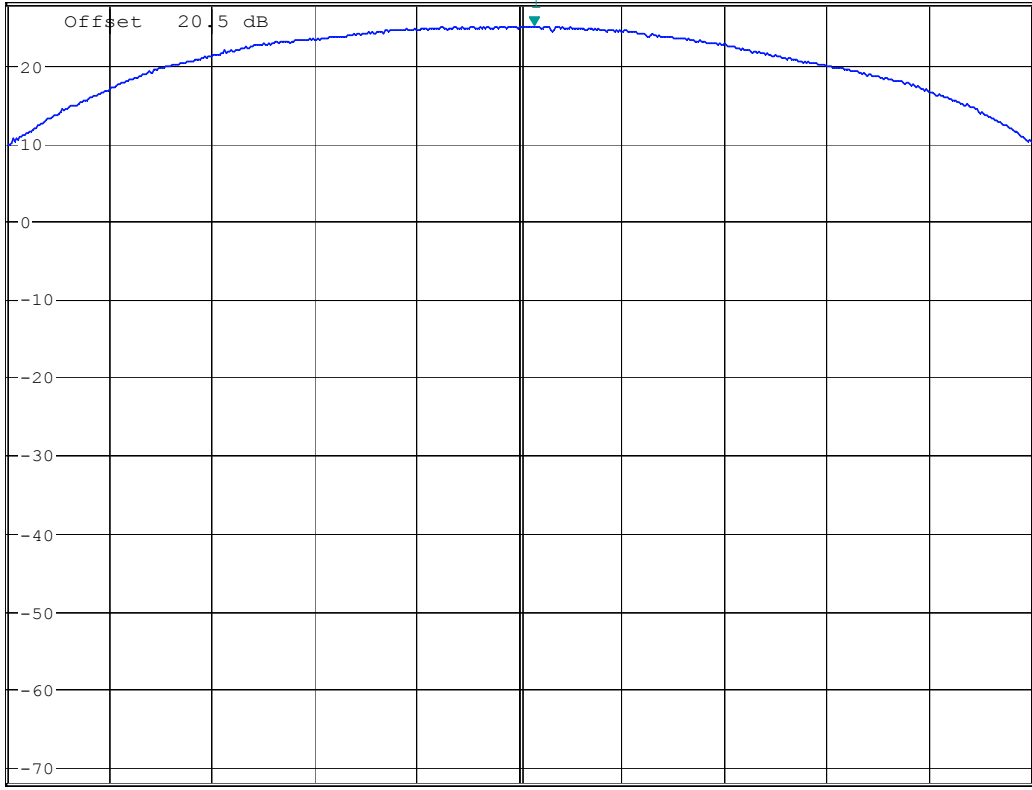
### Conducted Peak Power 802.11g 2412 MHz



\* RBW 20 MHz      Marker 1 [T1 ]  
\* VBW 30 MHz      25.01 dBm  
SWT 2.5 ms      2.412576923 GHz

Ref 28 dBm      Att 35 dB

1 PK  
MAXH

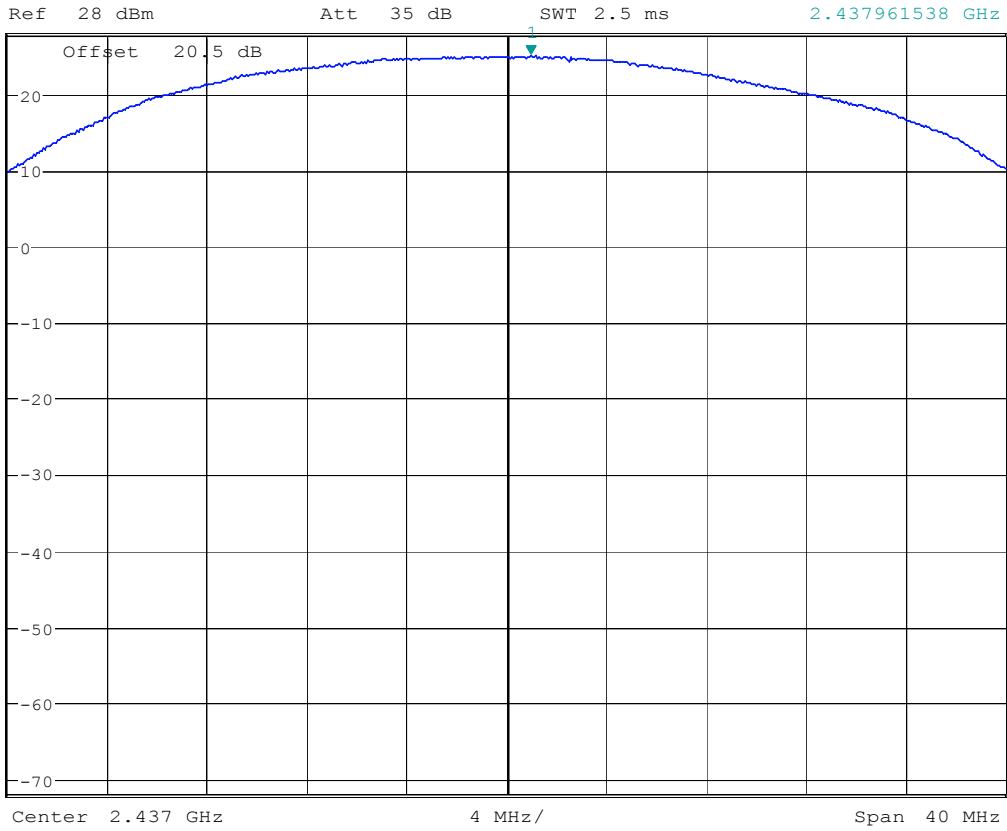




### Conducted Peak Power 802.11g 2437 MHz



\*RBW 20 MHz      Marker 1 [T1 ]  
\*VBW 30 MHz      25.07 dBm  
SWT 2.5 ms      2.437961538 GHz



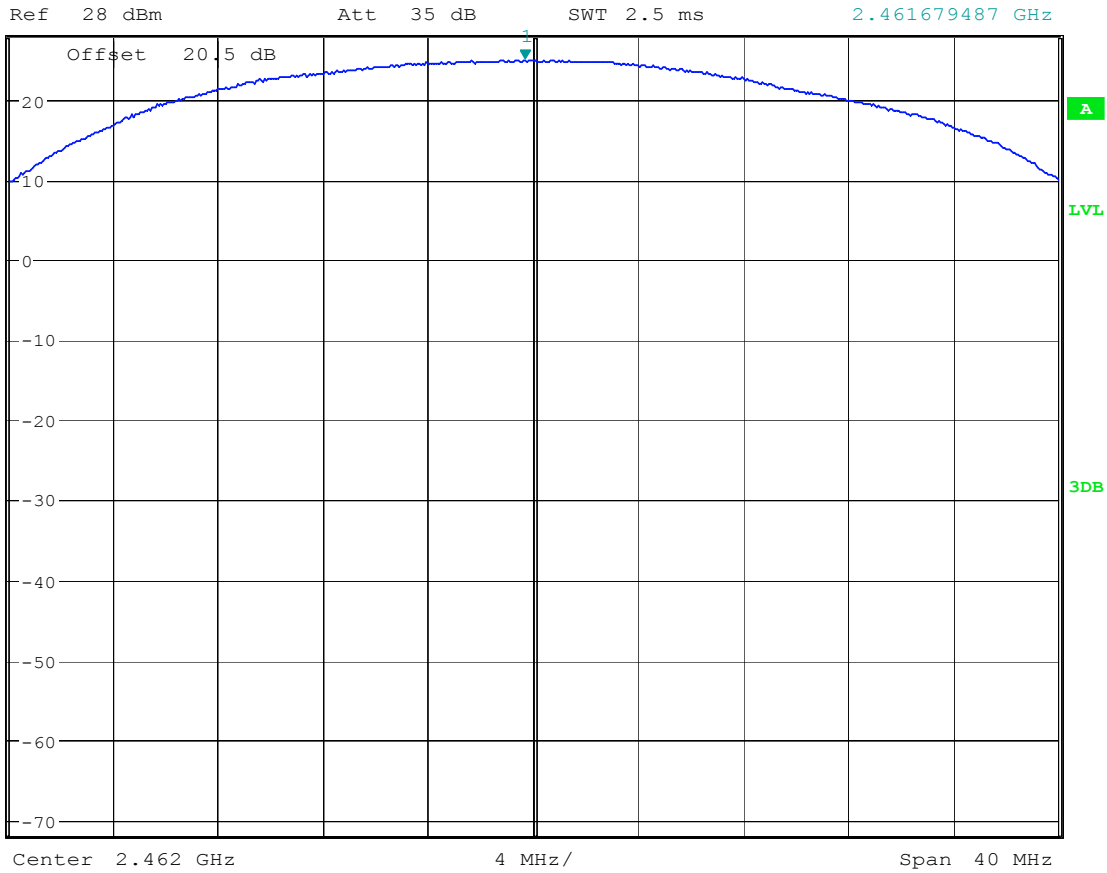
Date: 16.DEC.2010 17:10:20



### Conducted Peak Power 802.11g 2462 MHz



\*RBW 20 MHz      Marker 1 [T1 ]  
\*VBW 30 MHz      25.00 dBm  
SWT 2.5 ms      2.461679487 GHz



Date: 16.DEC.2010 17:10:59



**6.4 Restricted Band Edge Compliance**

**6.4.1 Limits:**

**§15.247 (d)**

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).

**§15.205 (a)**

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			

**§15.209 (a)**

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 (m)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30 (29.5 dBμV/m)	30
30–88	100 (40dBμV/m)	3
88–216	150 (43.5 dBμV/m)	3
216–960	200 (46 dBμV/m)	3
Above 960	500 (54 dBμV/m)	3



**RSS-Gen 7.2.2**

Restricted bands are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands;
- (b) unwanted emissions falling into restricted bands shall comply with the limits specified in RSS-Gen;

**Restrict Frequency Bands**

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

### RSS-Gen 7.2.5

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

#### General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

#### 6.4.2 Measurement Procedure:

Peak measurements are made using a peak detector and RBW=1MHz.

Average measurements performed using a peak detector and according to video averaging procedure with RBW=1MHz and VBW=10Hz.

\*PEAK LIMIT= 74dB $\mu$ V/m

\*AVG. LIMIT= 54dB $\mu$ V/m

Measurement Uncertainty:  $\pm$ 3.0dB

#### 6.4.3 Test Conditions:

Tnom: 25°C; Vnom: AC

#### 6.4.4 Test Verdict

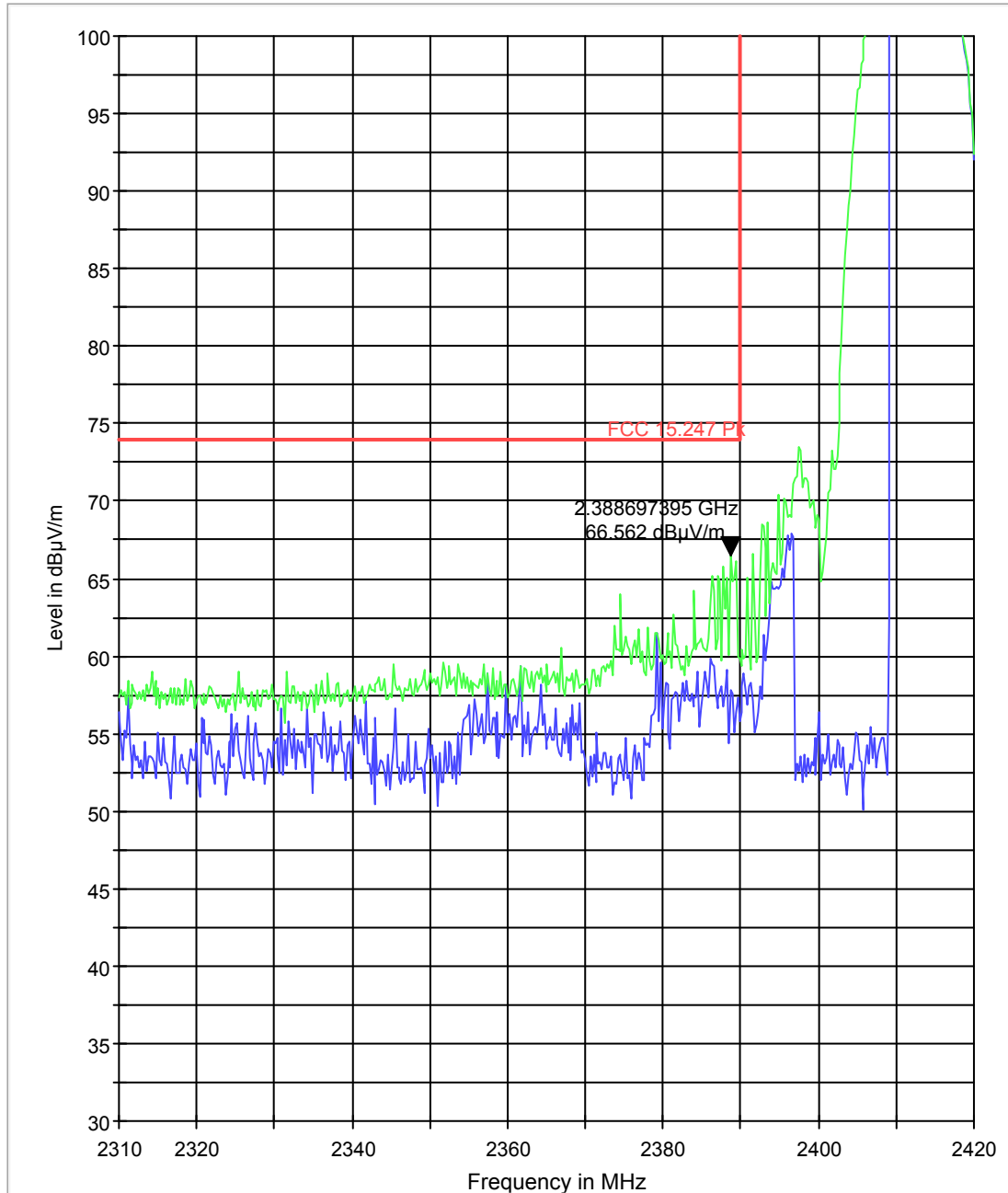
Pass.



### 6.4.5 Test Data/plots:

#### Lower band edge peak -802.11b mode

FCC 15.247 LBE Pk 3m



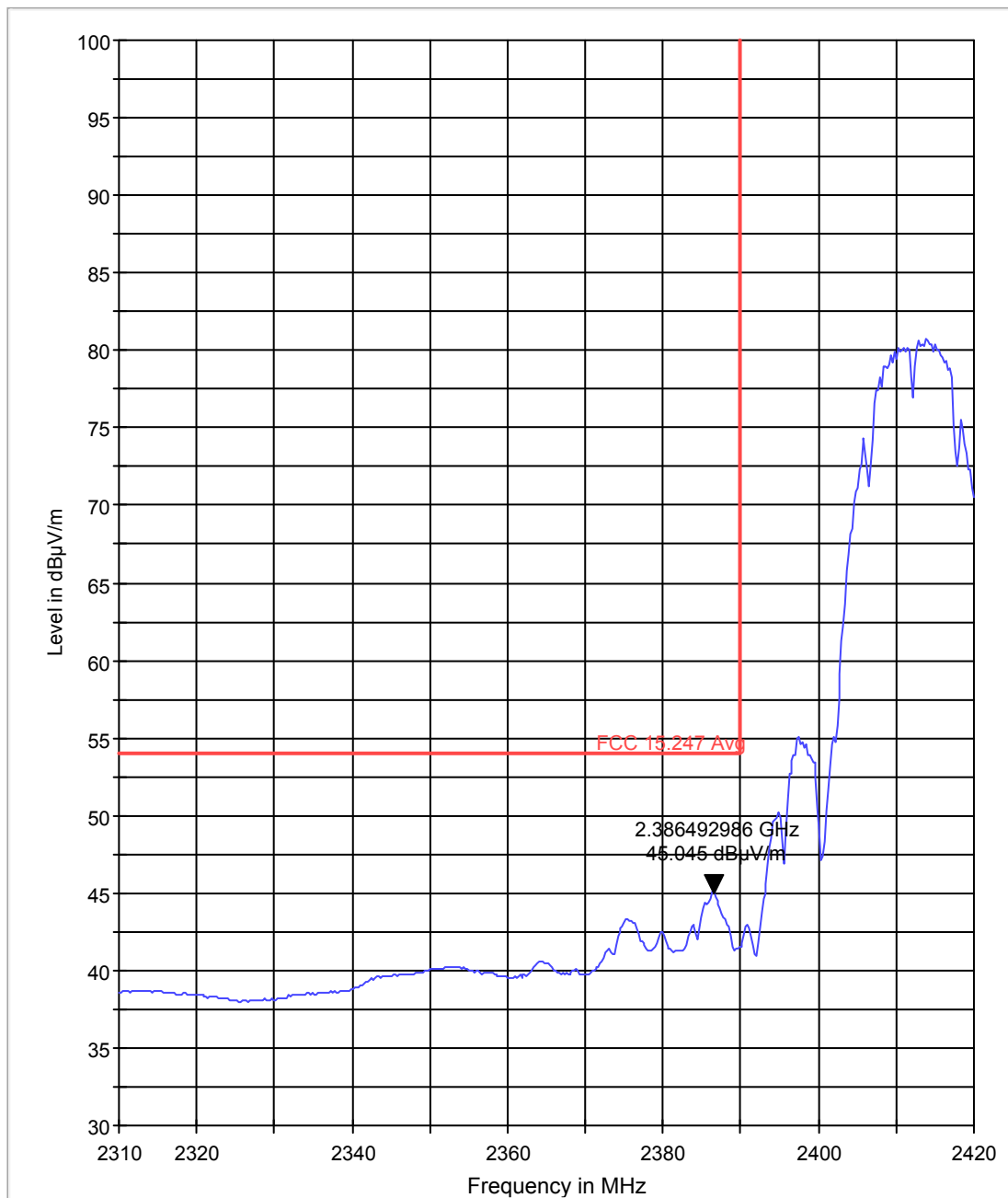
MaxPeak-ClearWrite      MaxPeak-MaxHold      FCC 15.247 Pk





### Lower band edge average -802.11b mode

FCC 15.247 LBE Avg 3m

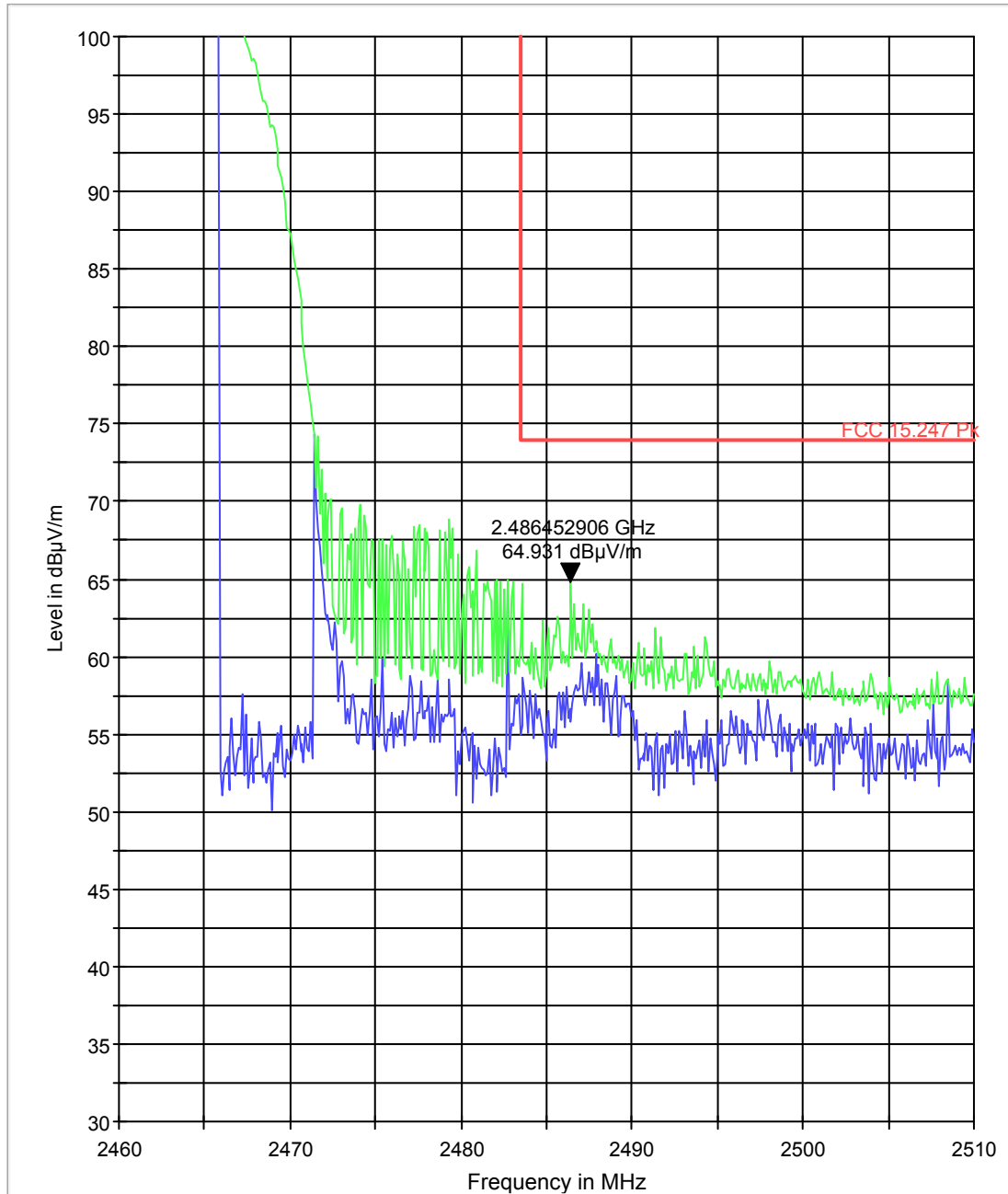


MaxPeak-MaxHold      Average-MaxHold      FCC 15.247 Avg



### Higher band edge peak -802.11b mode

FCC 15.247 HBE Pk 3m

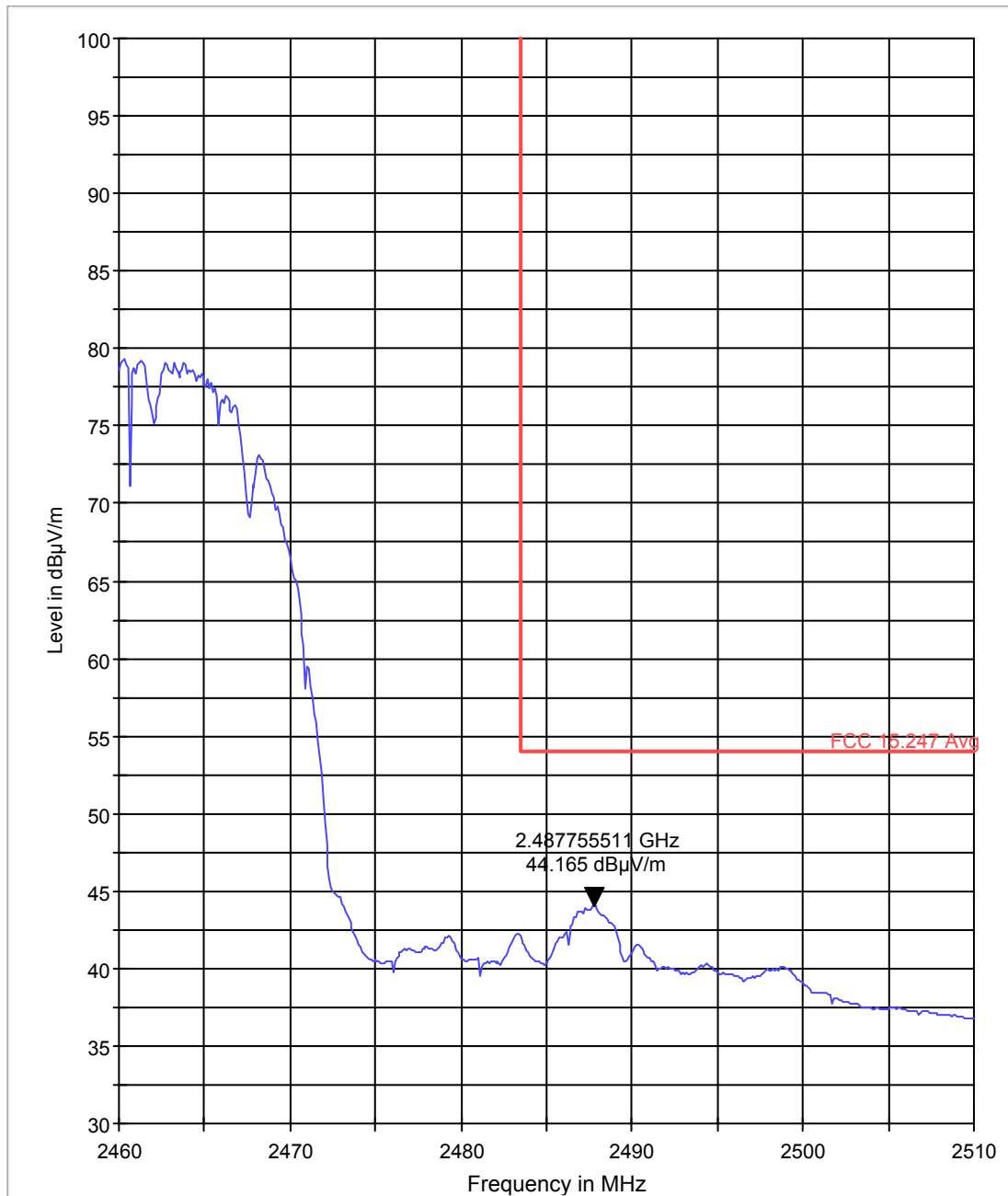


MaxPeak-ClearWrite      MaxPeak-MaxHold      FCC 15.247 Pk



### Higher band edge average-802.11b mode

FCC 15.247 HBE Avg 3m

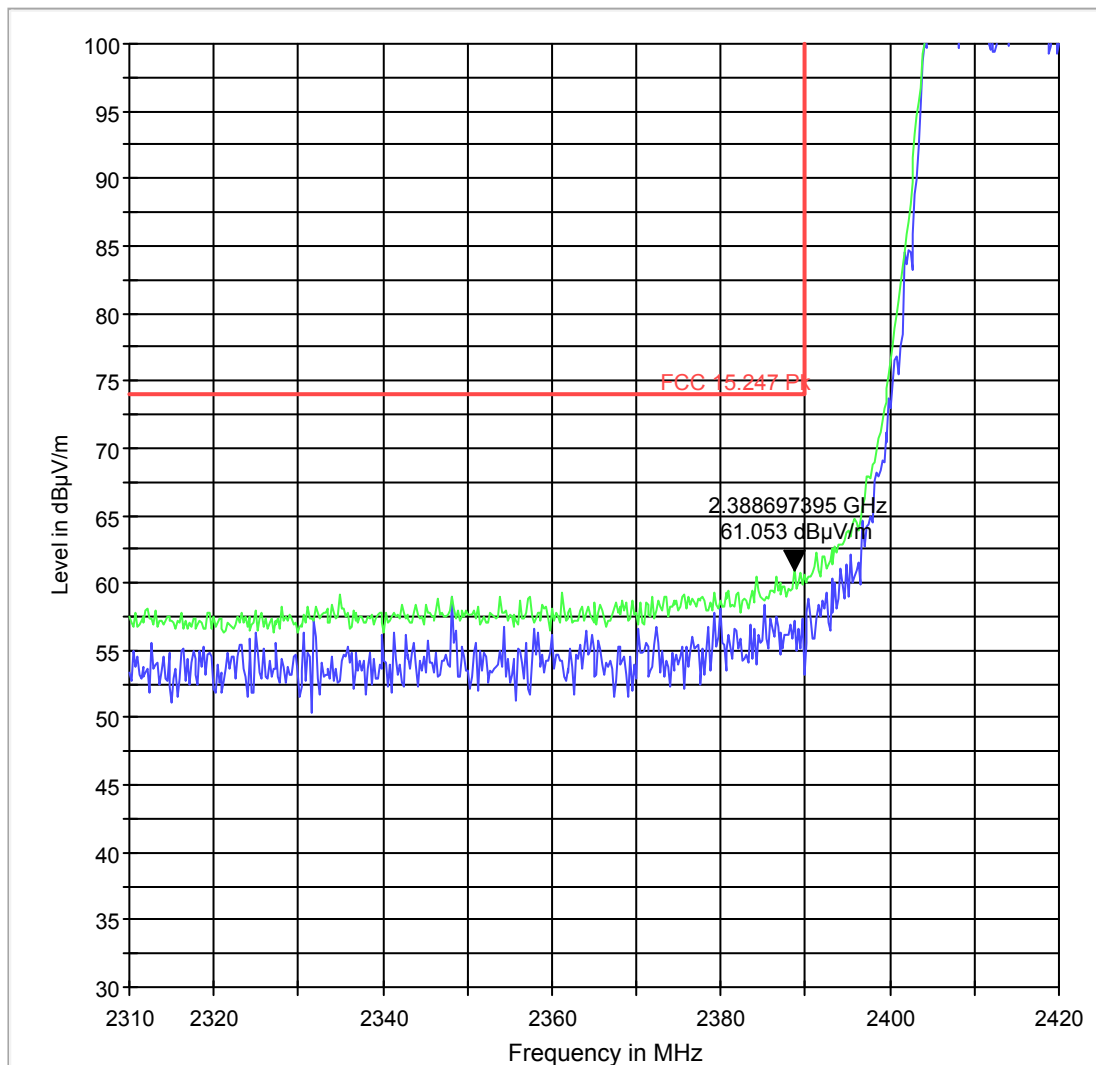


— MaxPeak-MaxHold      — FCC 15.247 Avg



### Lower band edge peak – 802.11g mode

FCC 15.247 LBE Pk 3m

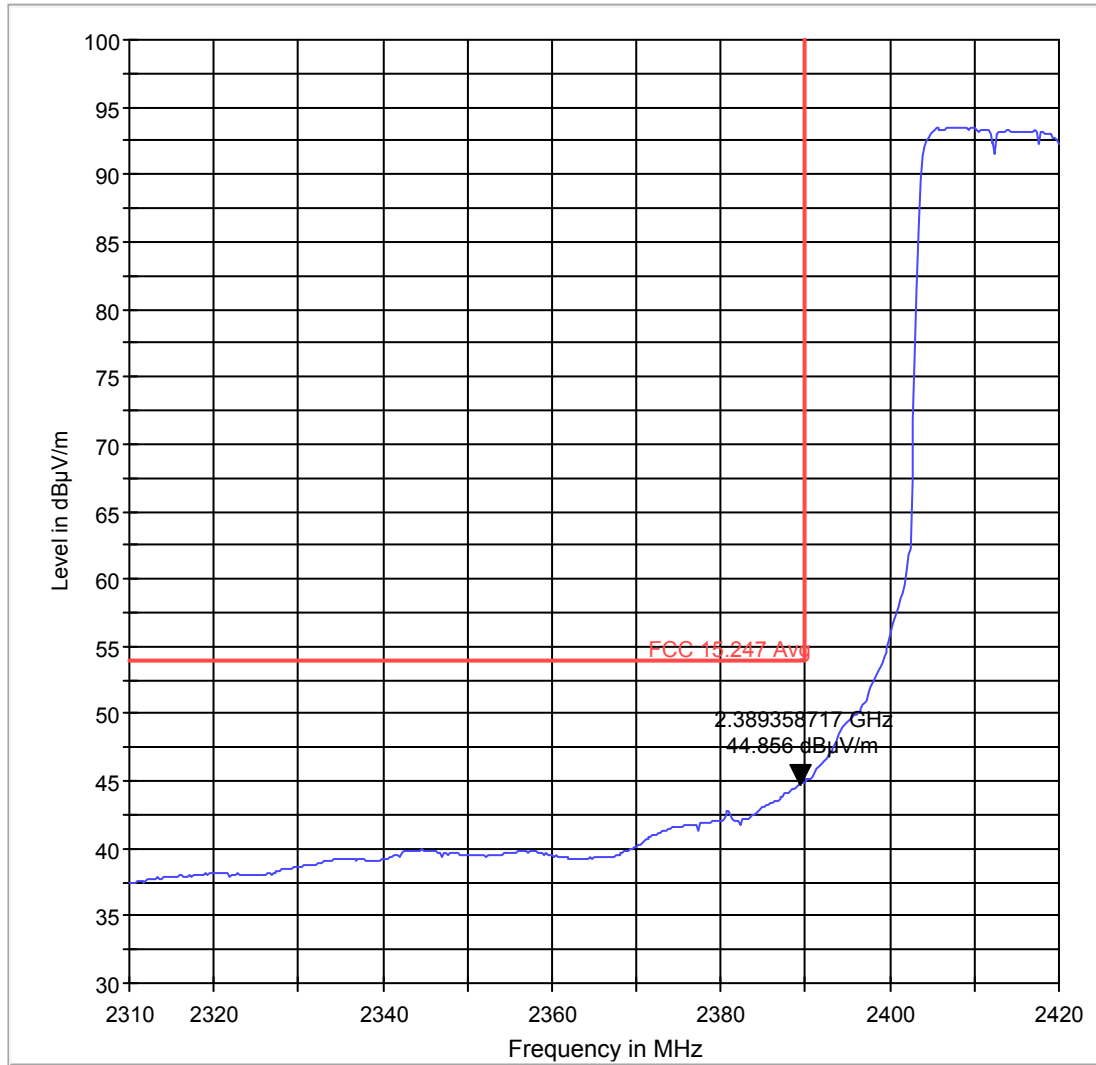


MaxPeak-ClearWrite      MaxPeak-MaxHold      FCC 15.247 Pk



Lower band edge average -802.11g mode

FCC 15.247 LBE Avg 3m

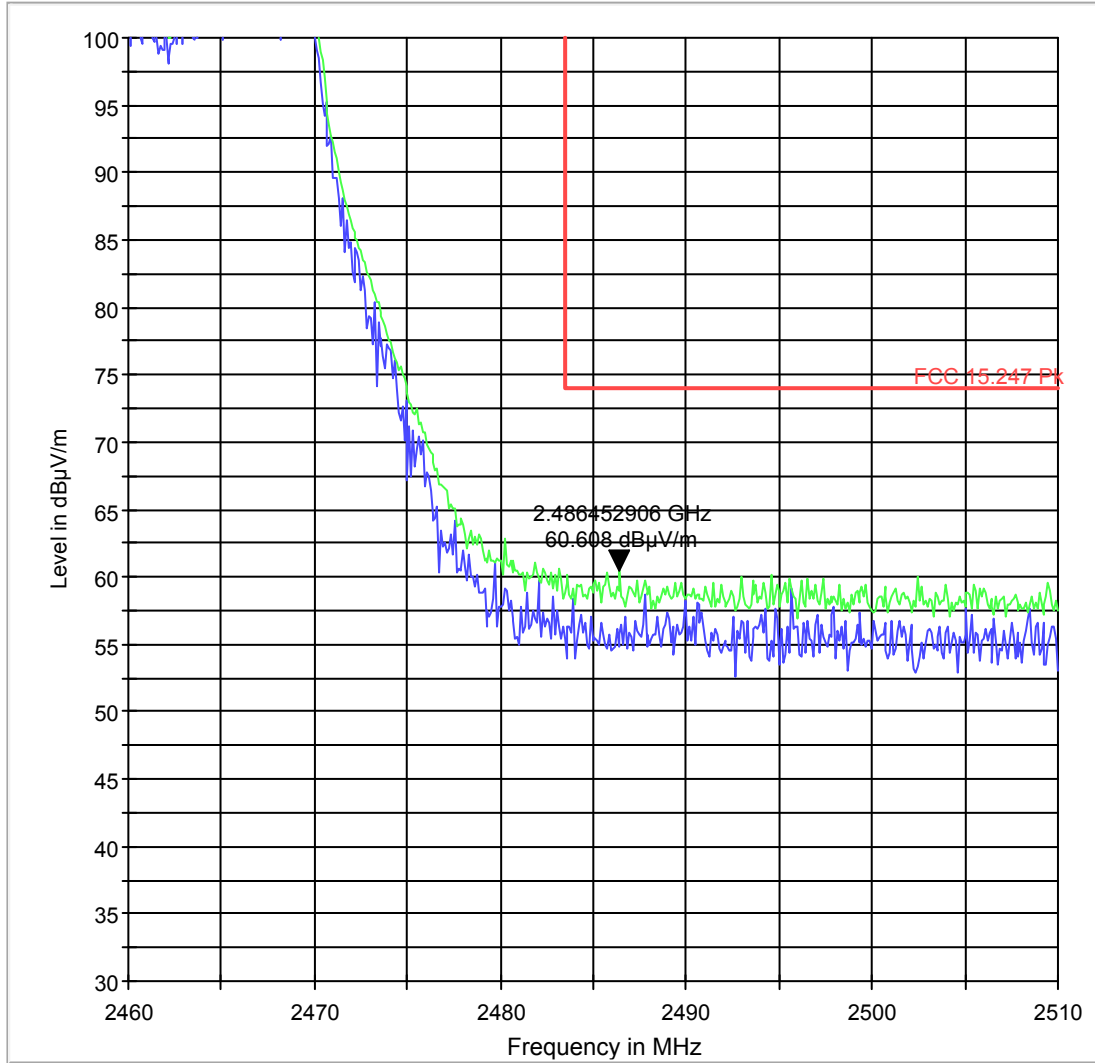


MaxPeak-MaxHold Average-MaxHold FCC 15.247 Avg



### Higher band edge peak -802.11g mode

FCC 15.247 HBE Pk 3m

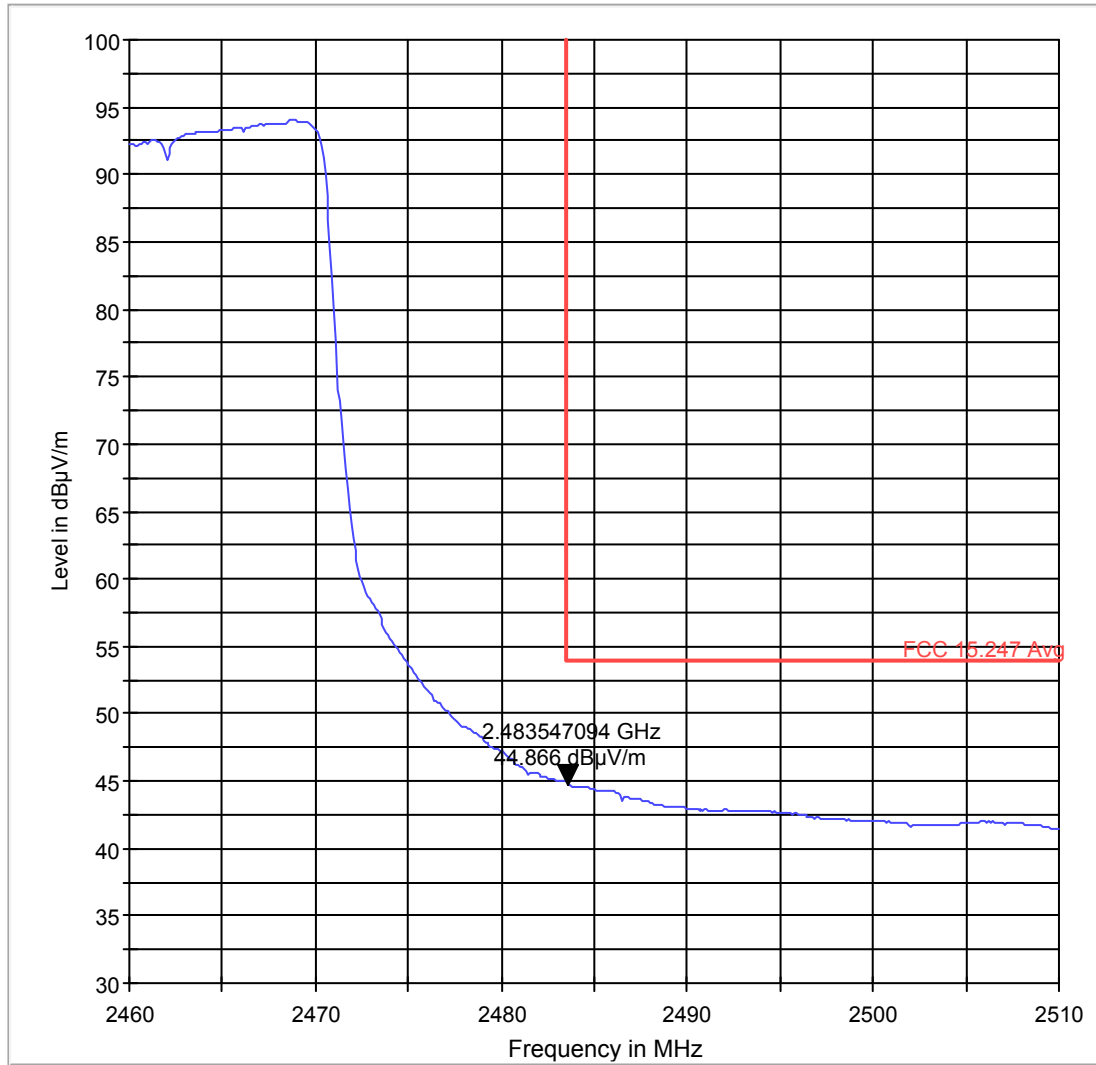


MaxPeak-ClearWrite      MaxPeak-MaxHold      FCC 15.247 Pk



### Higher band edge average- 802.11g mode

FCC 15.247 HBE Avg 3m



— MaxPeak-MaxHold — FCC 15.247 Avg

## **6.5 Occupied Bandwidth/ 20dB Bandwidth**

### **6.5.1 Limits:**

#### **§15.247 (a)(2)**

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

#### **RSS 210- A8.2(a)**

The minimum -6 dB bandwidth shall be at least 500 kHz.

### **6.5.2 Test Conditions:**

Tnom: 25°C; Vnom: AC

#### **Spectrum Analyzer settings:**

RBW=300kHz, VBW=300kHz, Detector: Peak- Max hold;

Sweep Time: Auto

Span=20MHz





**6.5.3 Test Result:**

Occupied Bandwidth (MHz)						
Mode	Frequency (MHz)					
	2412 Channel 1		2437 Channel 6		2462 Channel 11	
	6dB	20dB/ 99%	6dB	20dB/ 99%	6dB	20dB/ 99%
<b>802.11b</b>	10.19	13.85	10.24	13.80	10.14	13.85
<b>802.11g</b>	16.5	16.6	16.5	16.5	16.5	16.6
Measurement Uncertainty: ±100 kHz						

**6.5.4 Test Verdict**

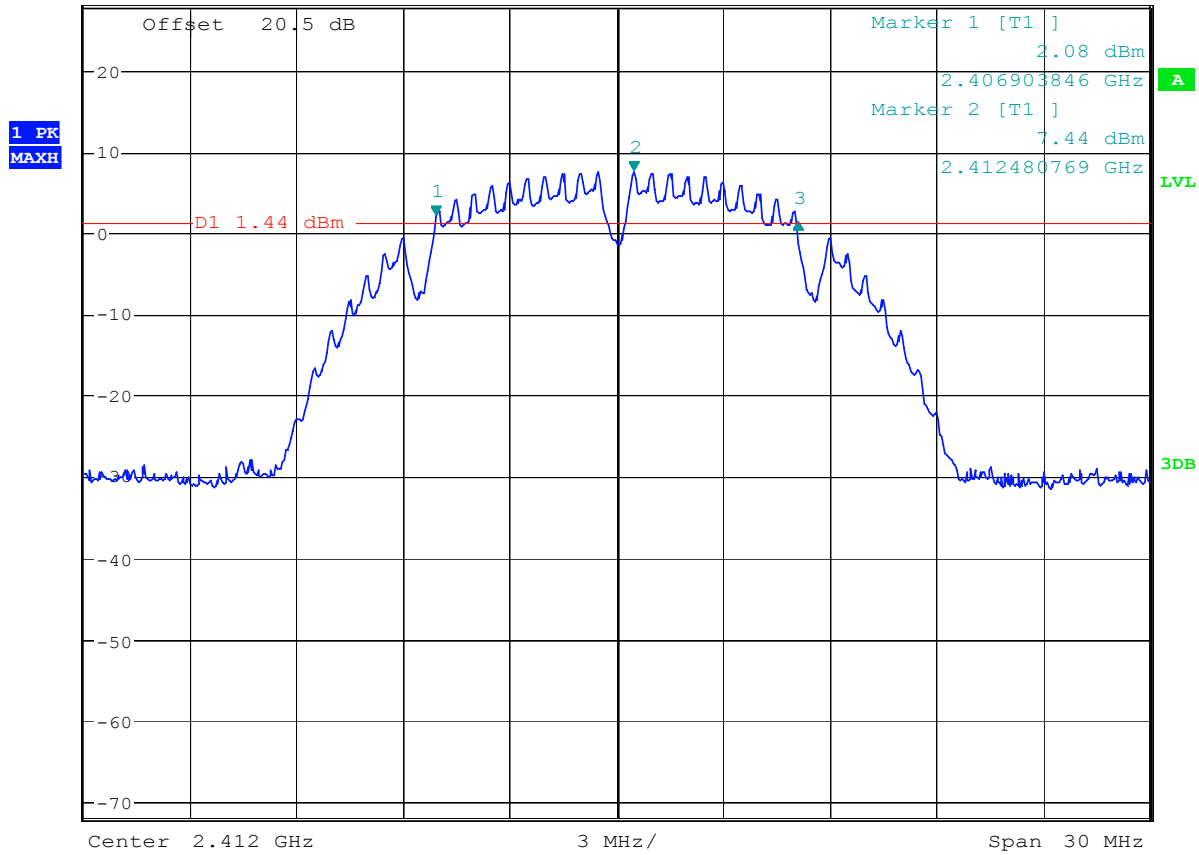
Pass.

6.5.5 Test Data/plots:

6dB Bandwidth 802.11b 2412 MHz



\*RBW 200 kHz Delta 3 [T1 ]  
 \*VBW 200 kHz -0.77 dB  
 Ref 28 dBm Att 35 dB SWT 2.5 ms 10.192307692 MHz

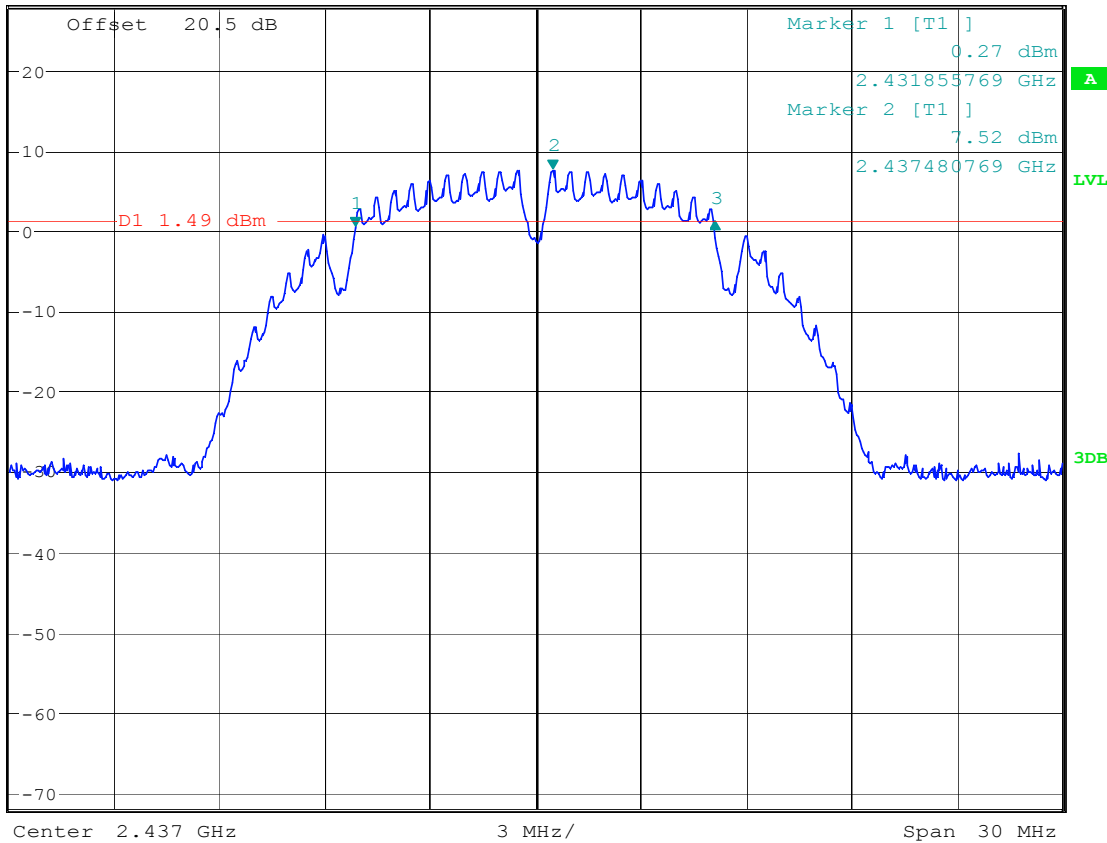




**6dB Bandwidth 802.11b 2437 MHz**



\* RBW 200 kHz Delta 3 [T1 ]  
 \* VBW 200 kHz 0.71 dB  
 Ref 28 dBm Att 35 dB SWT 2.5 ms 10.240384615 MHz



Date: 16.DEC.2010 13:20:17

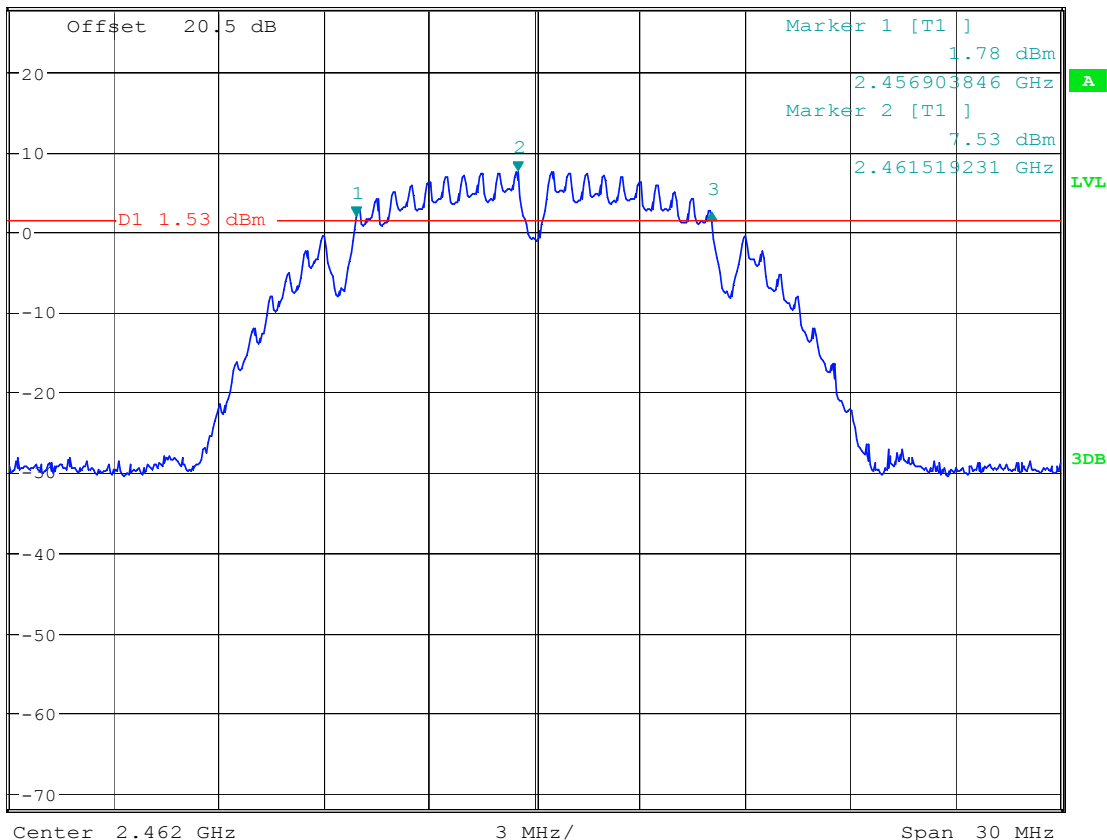


**6dB Bandwidth 802.11b 2462 MHz**



\*RBW 200 kHz Delta 3 [T1 ]  
 \*VBW 200 kHz 0.43 dB  
 Ref 28 dBm Att 35 dB SWT 2.5 ms 10.144230769 MHz

1 PK  
 MAXH

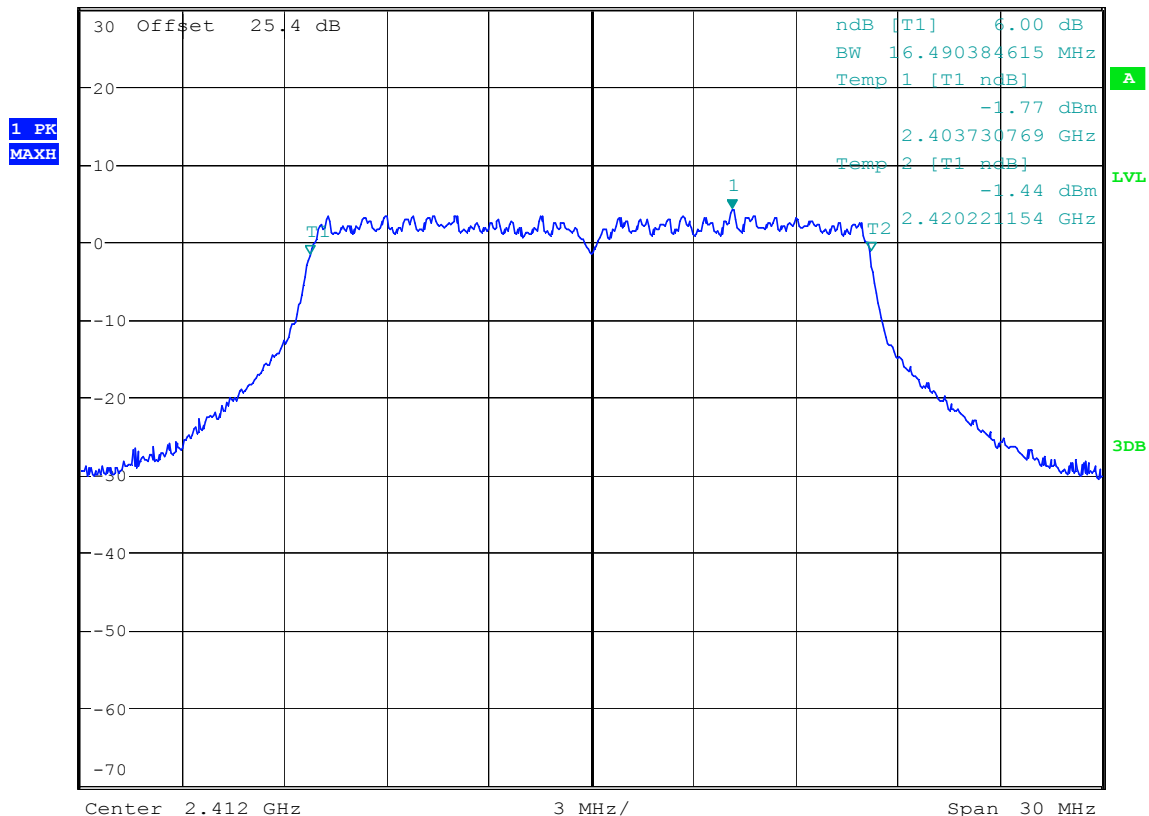




**6dB Bandwidth 802.11g 2412 MHz**



\* RBW 200 kHz      Marker 1 [T1 ]  
 \* VBW 200 kHz      4.12 dBm  
 Ref 30 dBm      Att 30 dB      SWT 2.5 ms      2.416134615 GHz



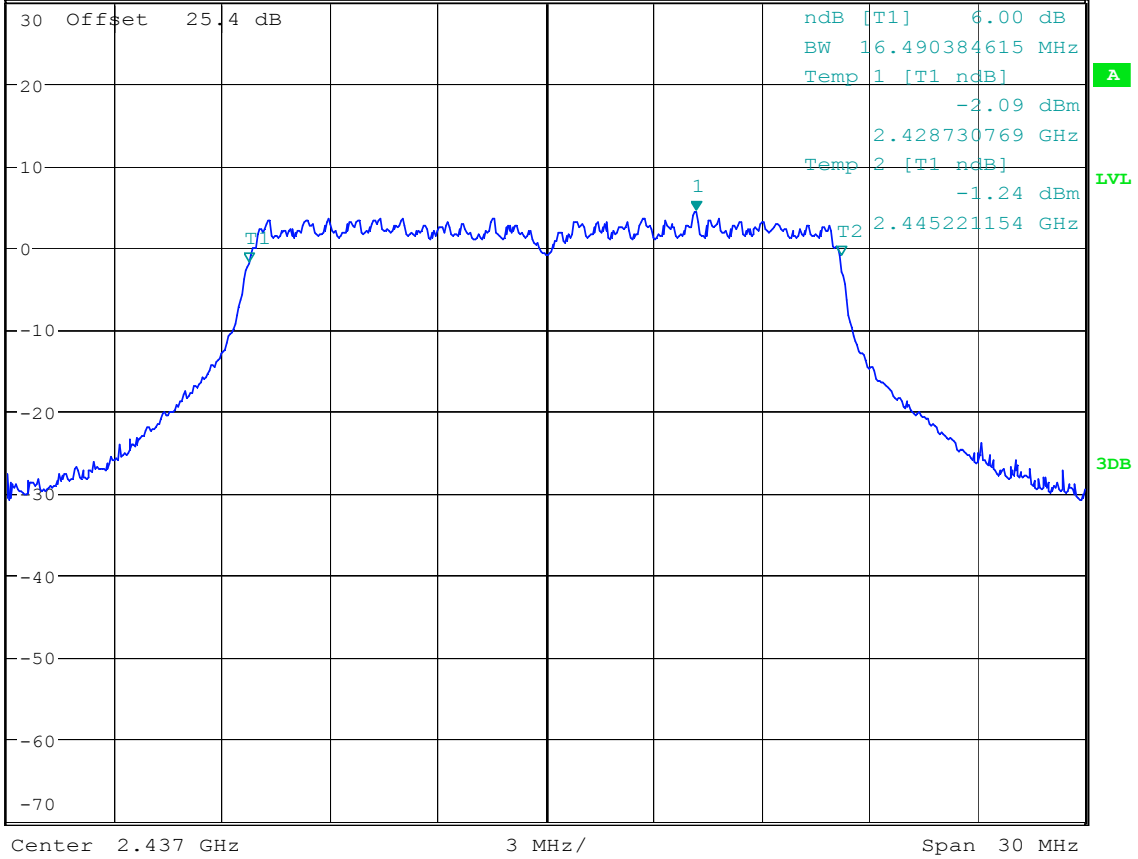
Date: 15.JAN.2011 11:22:12

**6dB Bandwidth 802.11g 2437 MHz**



\* RBW 200 kHz      Marker 1 [T1 ]  
 \* VBW 200 kHz      4.27 dBm  
 Ref 30 dBm      Att 30 dB      SWT 2.5 ms      2.441182692 GHz

1 PK  
 MAXH

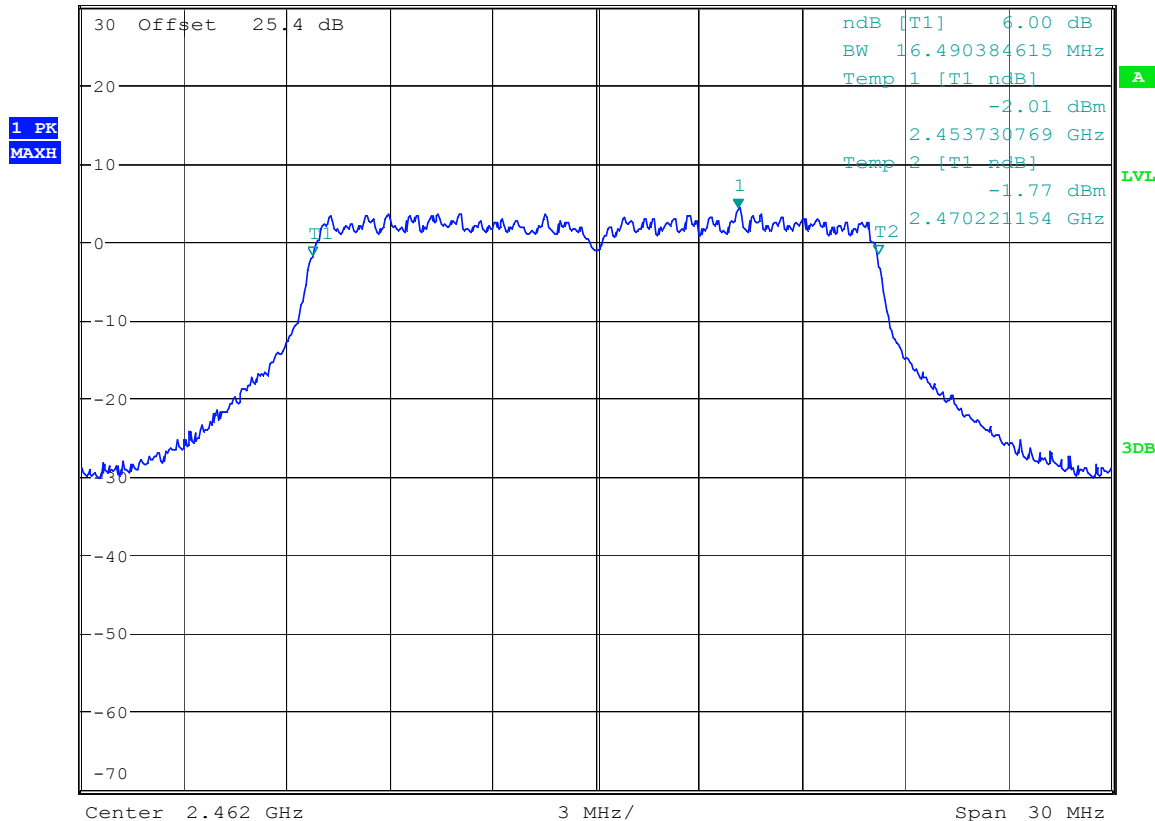




**6dB Bandwidth 802.11g 2462 MHz**



\* RBW 200 kHz Marker 1 [T1 ]  
 \* VBW 200 kHz 4.14 dBm  
 Ref 30 dBm Att 30 dB SWT 2.5 ms 2.466134615 GHz



Date: 15.JAN.2011 11:18:45

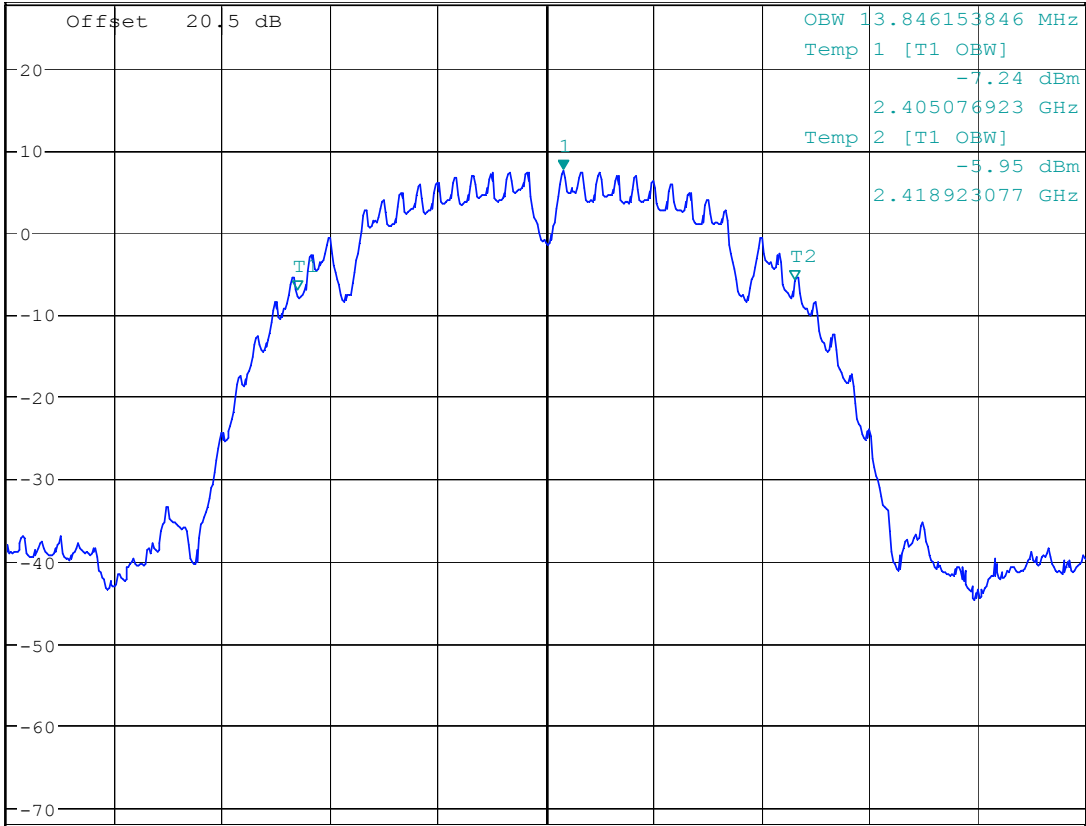
**20dB Bandwidth 802.11b 2412 MHz**



\*RBW 200 kHz      Marker 1 [T1 ]  
 \*VBW 200 kHz      7.43 dBm  
 SWT 2.5 ms      2.412480769 GHz

Ref 28 dBm      Att 15 dB

1 PK  
 MAXH



Center 2.412 GHz      3 MHz/      Span 30 MHz

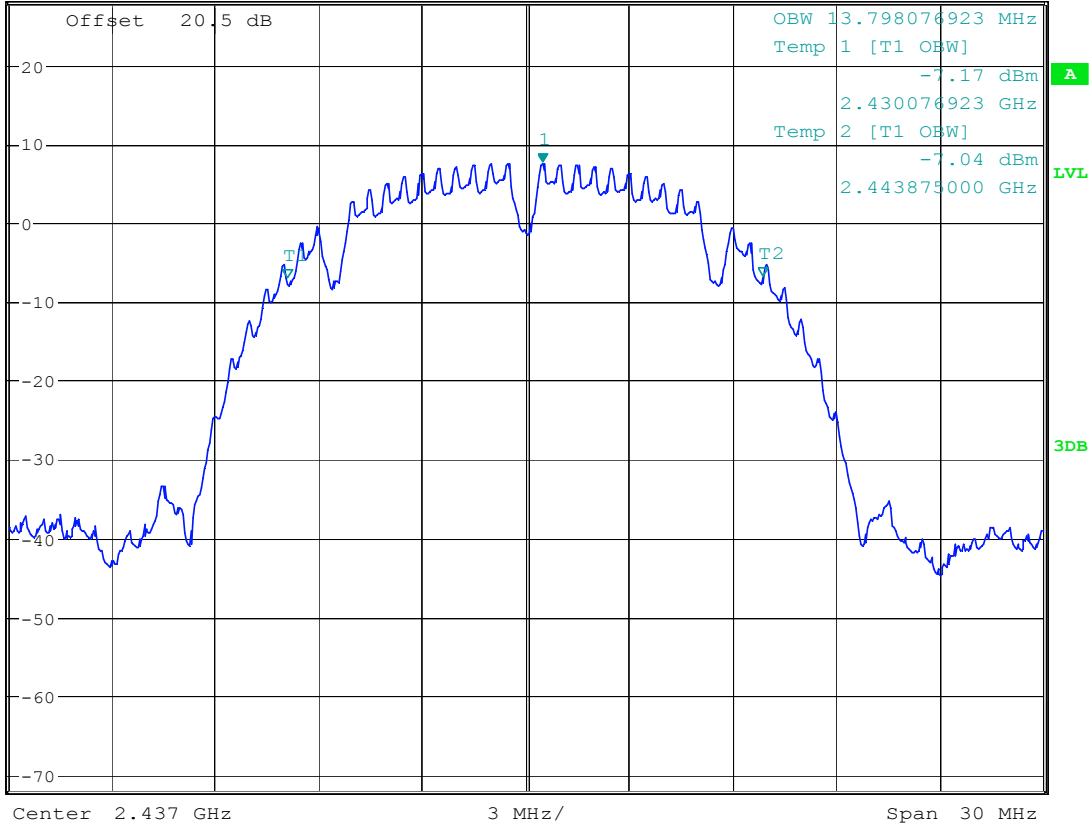


**20dB Bandwidth 802.11b 2437 MHz**



\*RBW 200 kHz Marker 1 [T1 ]  
 \*VBW 200 kHz 7.56 dBm  
 Ref 28 dBm Att 15 dB SWT 2.5 ms 2.437480769 GHz

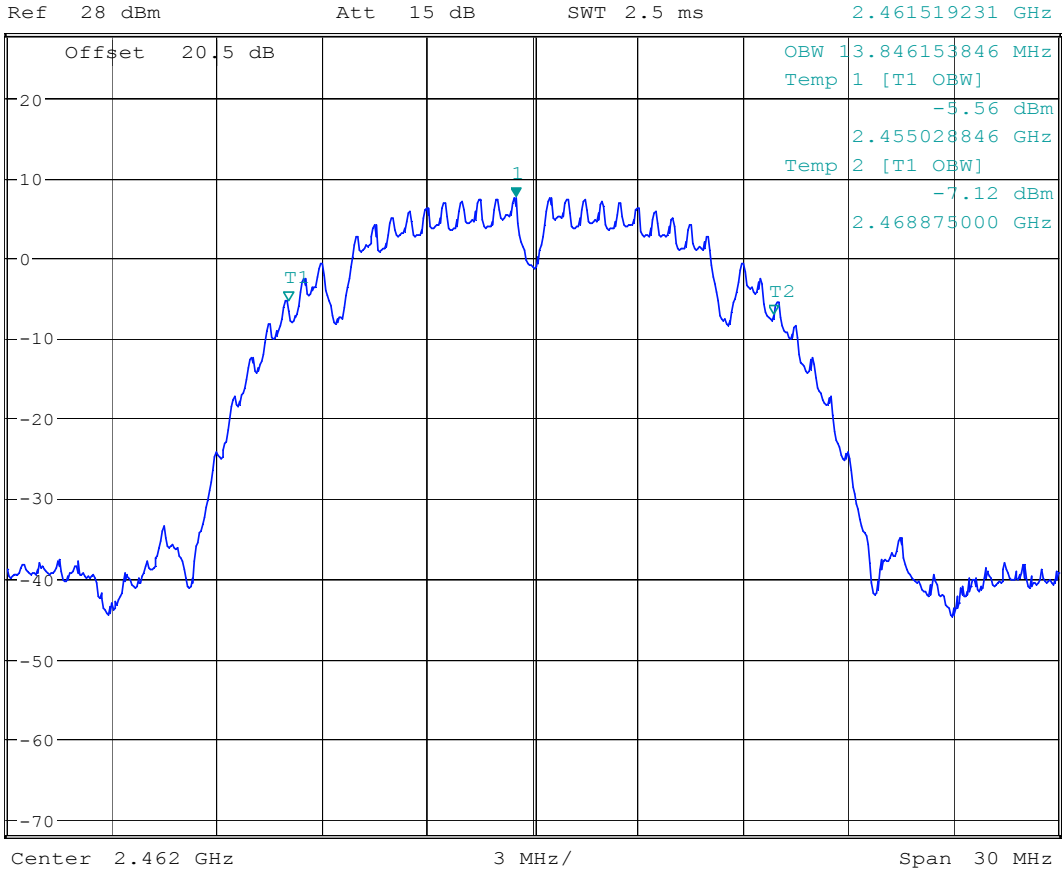
1 PK  
 MAXH



**20dB Bandwidth 802.11b 2462 MHz**



\*RBW 200 kHz Marker 1 [T1 ]  
 \*VBW 200 kHz 7.53 dBm  
 SWT 2.5 ms 2.461519231 GHz



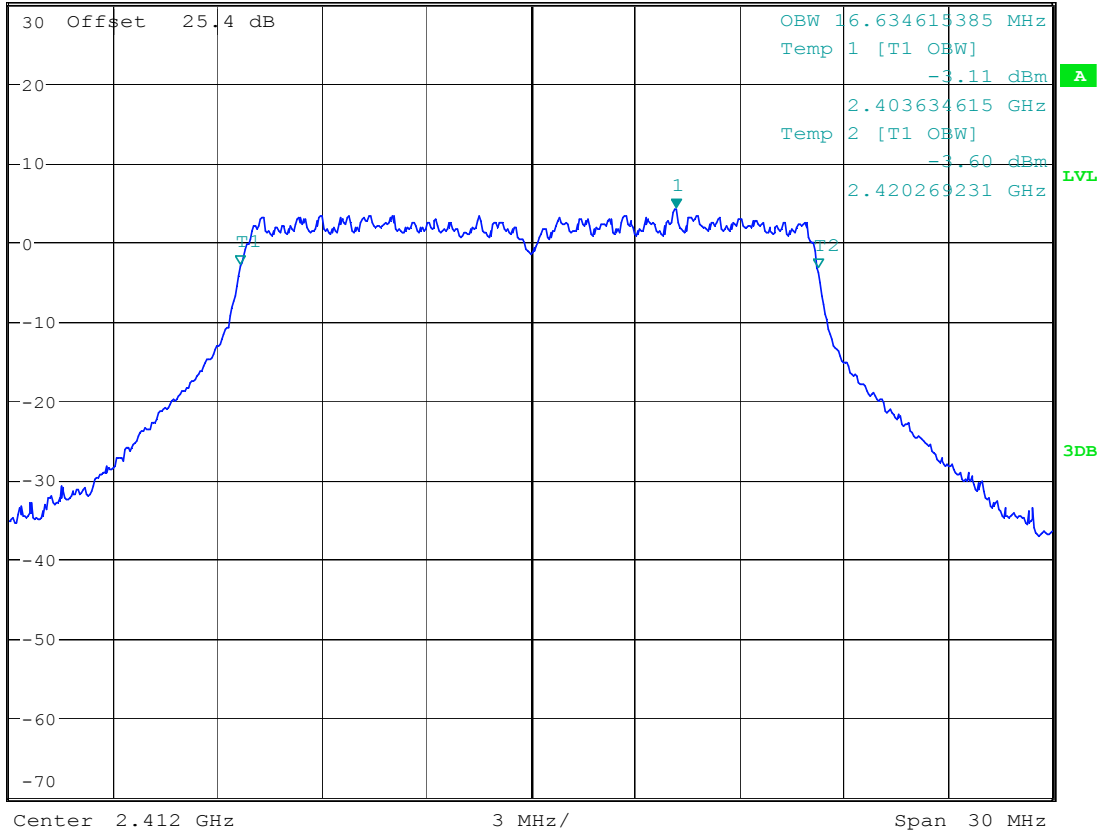


**20dB Bandwidth 802.11g 2412 MHz**



\* RBW 200 kHz      Marker 1 [T1 ]  
 \* VBW 200 kHz      4.15 dBm  
 Ref 30 dBm      Att 10 dB      SWT 2.5 ms      2.416182692 GHz

1 PK  
 MAXH



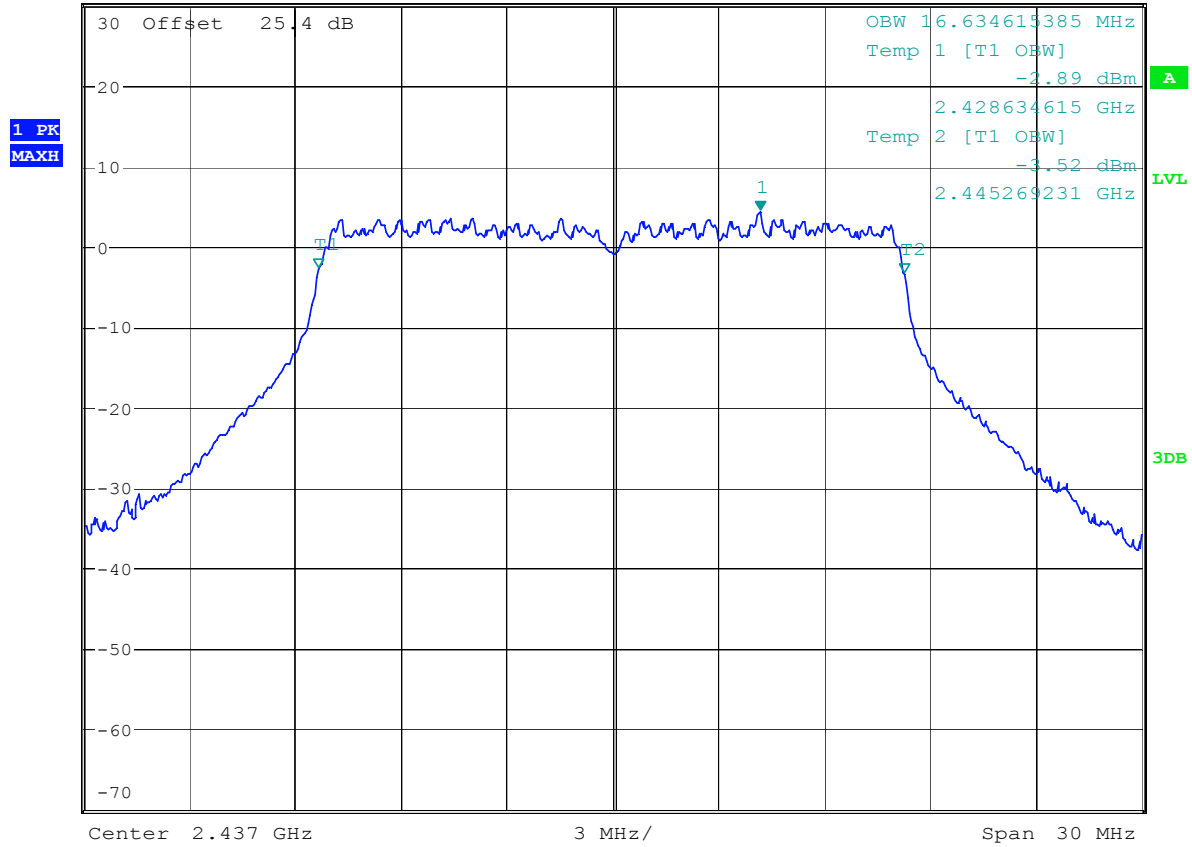
Date: 15.JAN.2011 11:21:30



**20dB Bandwidth 802.11g 2437 MHz**



\*RBW 200 kHz      Marker 1 [T1 ]  
 \*VBW 200 kHz      4.17 dBm  
 Ref 30 dBm      Att 10 dB      SWT 2.5 ms      2.441182692 GHz

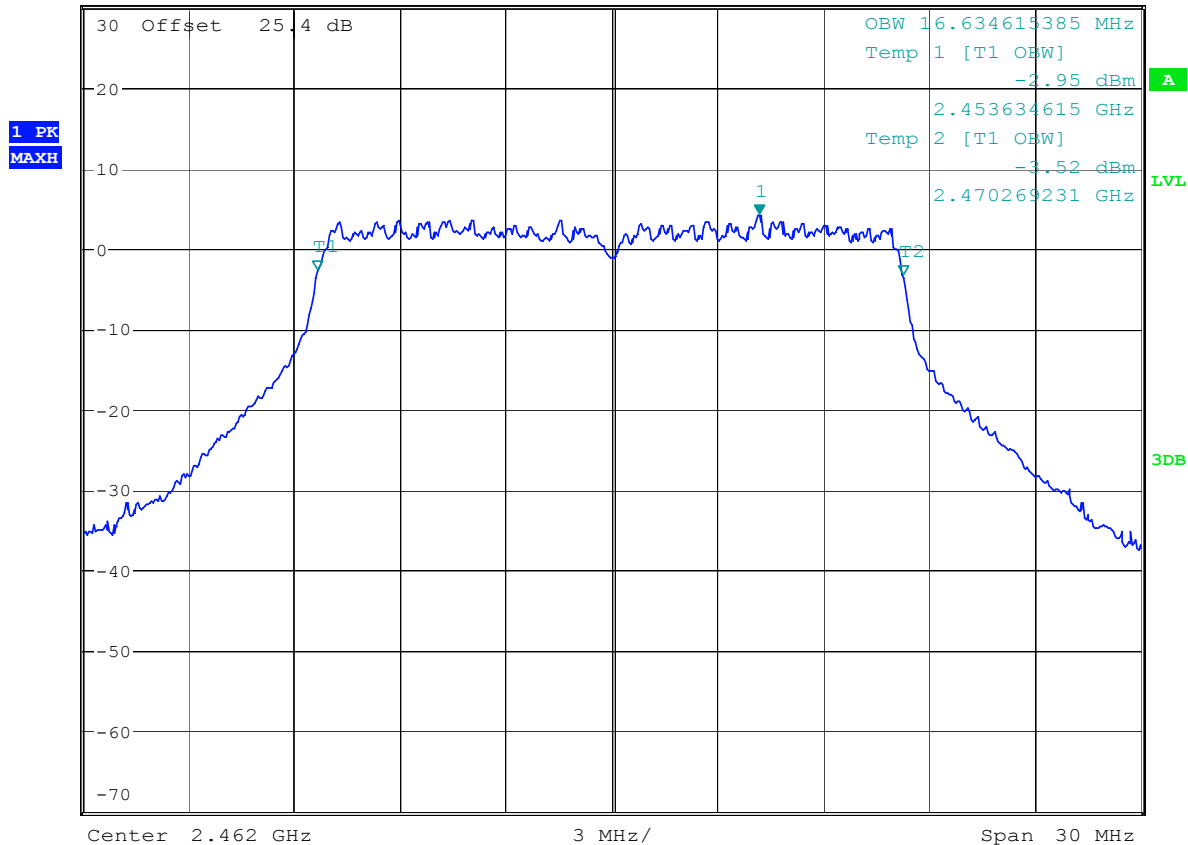




20dB Bandwidth 802.11g 2462 MHz



\*RBW 200 kHz Marker 1 [T1 ] 4.14 dBm  
 \*VBW 200 kHz  
 Ref 30 dBm Att 10 dB SWT 2.5 ms 2.466182692 GHz





**6.6 Power Spectral Density**

**6.6.1 Limits:**

§ 15.247 (e)

**RSS 210- A8.2(b)**

For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

**6.6.2 Measurement procedure:**

1. Determine the highest peak level for a sweep with RBW=VBW=100kHz and span =10MHz.
2. Set the peak level at the center of the screen and sweep again for a span of 5MHz.
3. Repeat step 2 with a span of 1MHz.
4. Set the peak level at the center of the screen and sweep with RBW=3kHz, VBW=10kHz, Span=300kHz and sweep time of 100sec.
5. Allow two sweeps to complete to determine the highest level as the PSD.

**6.6.3 Test results:**

<b>Power Spectral Density (dBm/3kHz)</b>			
<b>Mode</b>	<b>Frequency (MHz)</b>		
	<b>2412 Channel 1</b>	<b>2437 Channel 6</b>	<b>2462 Channel 11</b>
<b>802.11b</b>	-11.66	-11.91	-12.15
<b>802.11g</b>	-14.10	-14.17	-14.33
Measurement Uncertainty: ±0.5dB			

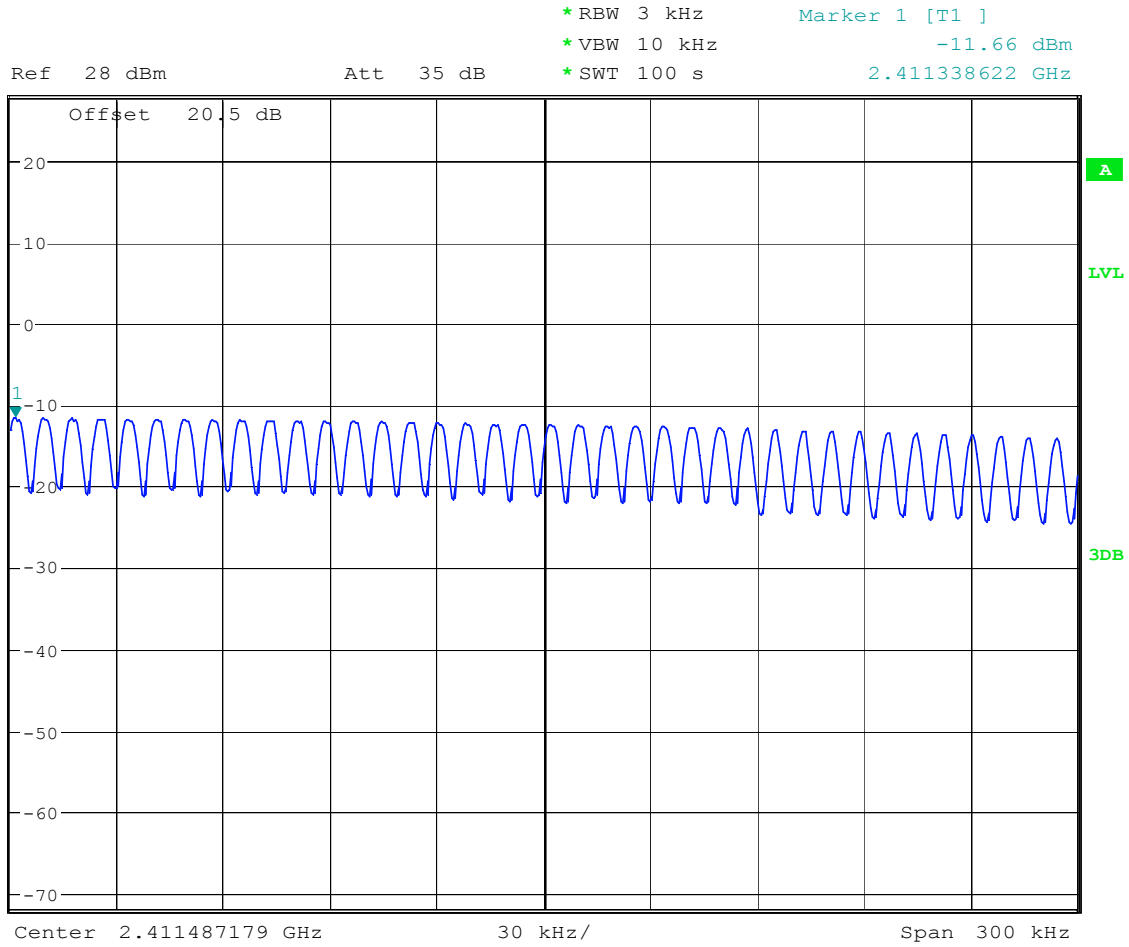
**6.6.4 Test Verdict**

Pass.



### 6.6.5 Test Data/plots:

#### Power Spectral Density 802.11b 2412 MHz





### Power Spectral Density 802.11b 2437 MHz

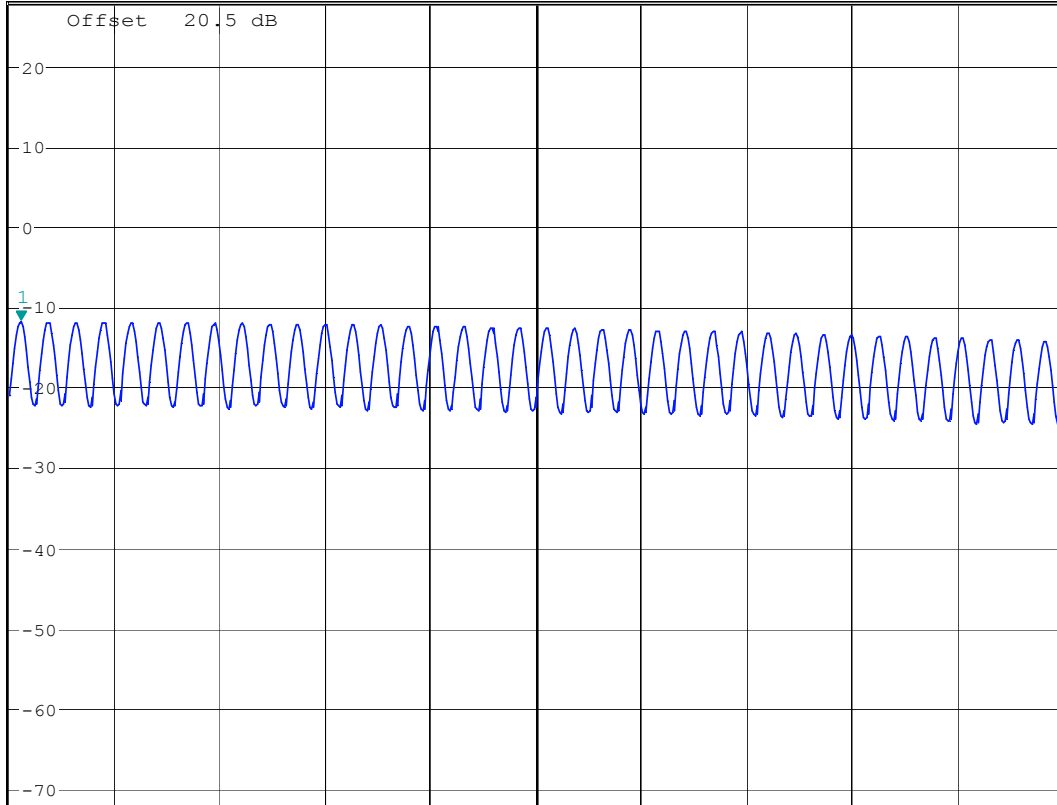


\* RBW 3 kHz      Marker 1 [T1 ]  
\* VBW 10 kHz      -11.91 dBm  
\* SWT 100 s      2.436340545 GHz

Ref 28 dBm

Att 35 dB

1 PK  
MAXH



Center 2.436487179 GHz

30 kHz/

Span 300 kHz



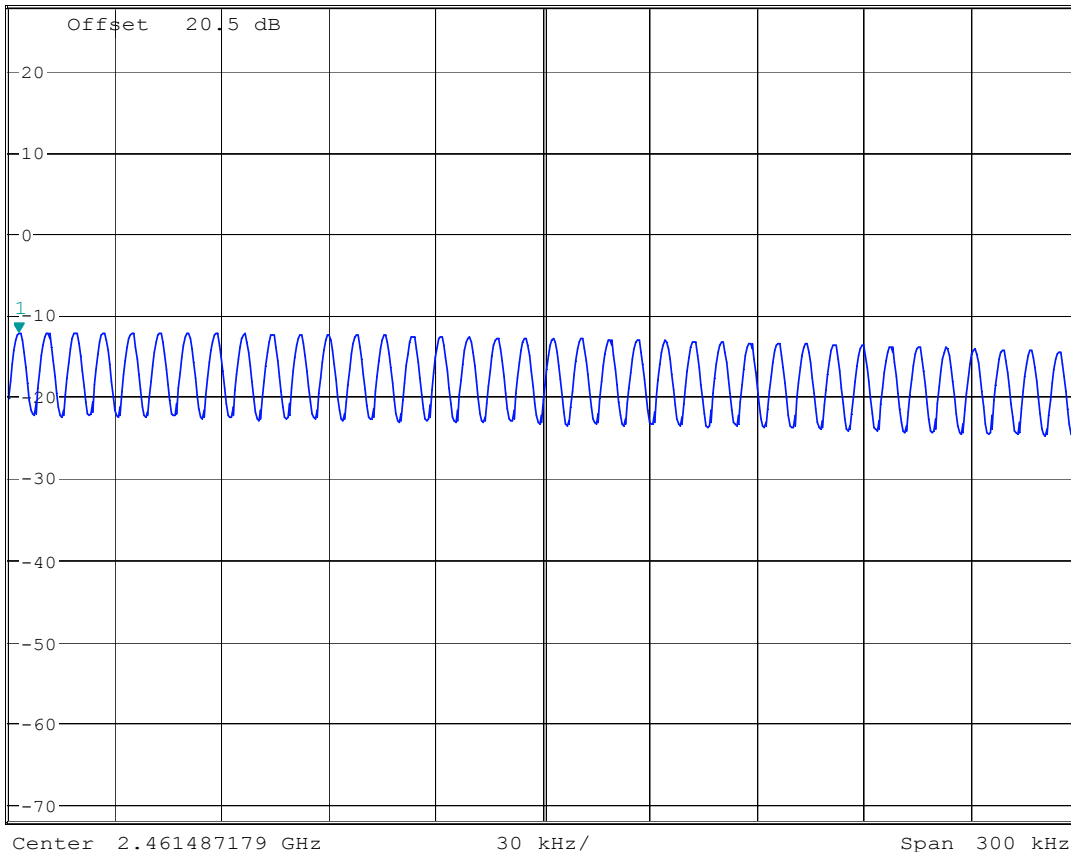


### Power Spectral Density 802.11b 2462 MHz



\* RBW 3 kHz                    Marker 1 [T1 ]  
\* VBW 10 kHz                    -12.15 dBm  
\* SWT 100 s                    2.461340064 GHz

Ref 28 dBm                    Att 35 dB



Date: 16.DEC.2010 16:53:21

### Power Spectral Density 802.11g 2412 MHz

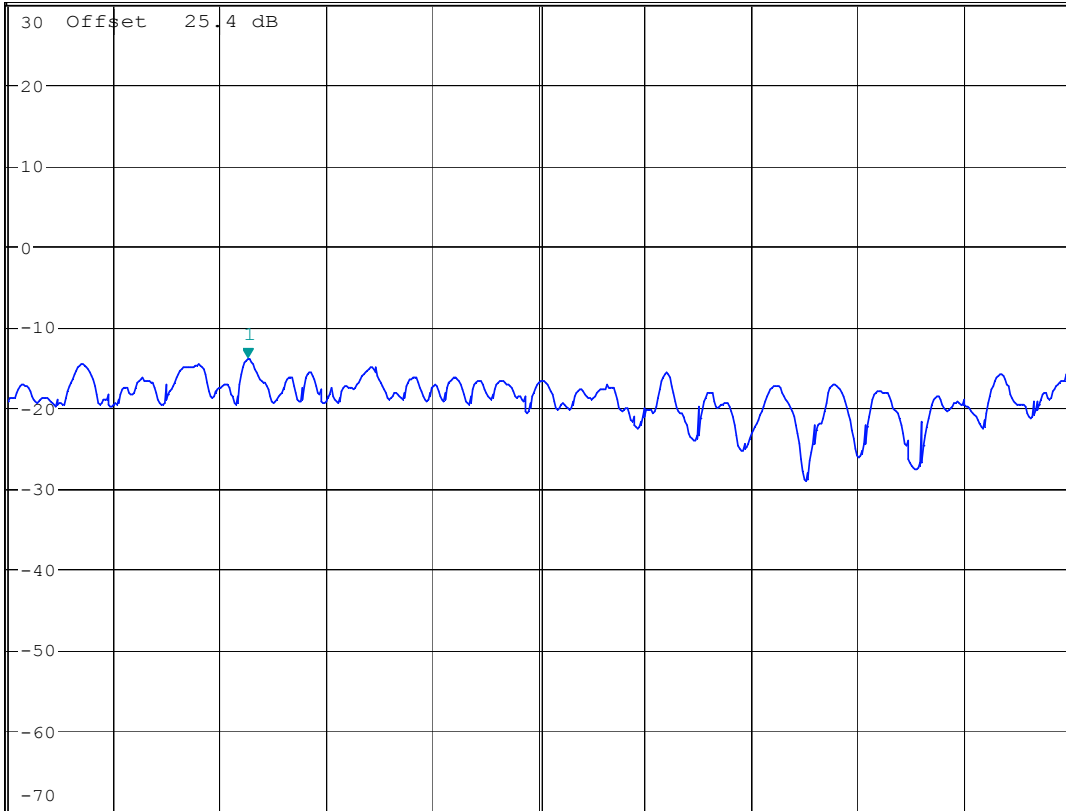


\*RBW 3 kHz      Marker 1 [T1 ]  
\*VBW 10 kHz      -14.10 dBm  
\*SWT 100 s      2.416052404 GHz

Ref 30 dBm

Att 30 dB

1 PK  
MAXH



Center 2.416134615 GHz

30 kHz/

Span 300 kHz



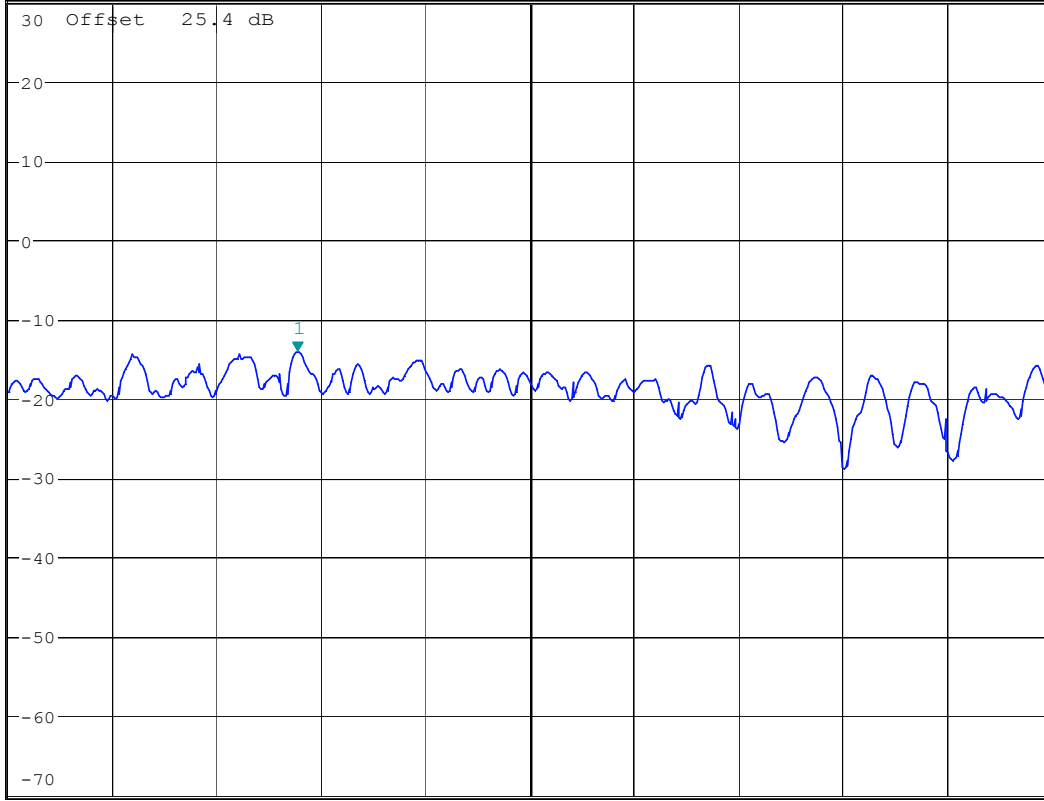
### Power Spectral Density 802.11g 2437 MHz



\* RBW 3 kHz  
\* VBW 10 kHz  
\* SWT 100 s  
Marker 1 [T1 ]  
-14.17 dBm  
2.441051763 GHz

Ref 30 dBm

Att 30 dB



Date: 15.JAN.2011 11:32:30





**6.7 Transmitter Spurious Emissions into non-restrict bands - Conducted**

**6.7.1 Reference and Limits:**

§ 15.247 (d)

**RSS 210-A8.5**

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced 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.

30dBm for the transmitter.

-20dBc in the frequency range 30MHz- 25GHz.

**6.7.2 Test Conditions:**

Tnom: 25°C; Vnom: AC

Operating Mode: 802.11g

**Spectrum Analyzer settings:**

RBW=100kHz, VBW=100kHz, Detector: Peak- Max hold;

Sweep Time: Auto

Span=Full range

**6.7.3 Test results:**

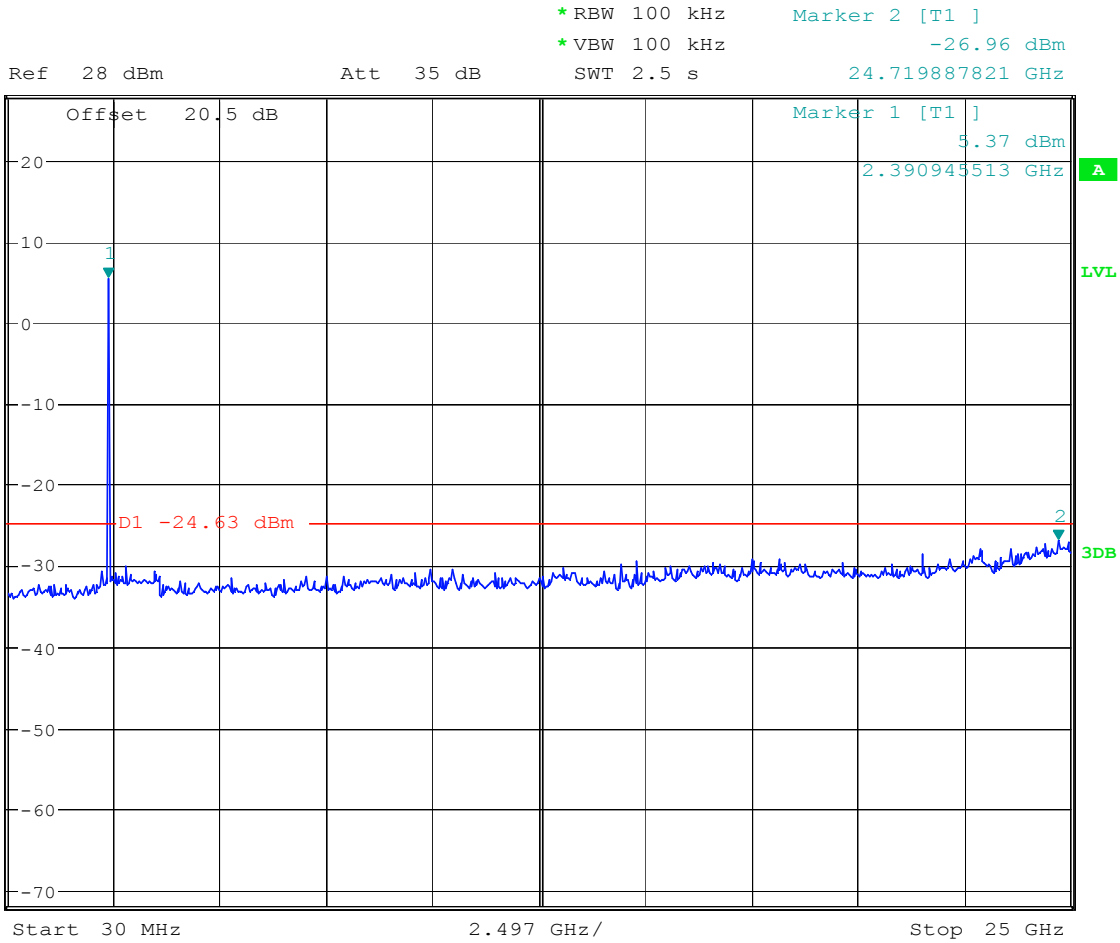
Conducted Spurious Emissions				
Channel	Frequency (MHz)	Amplitude (dBm)		Limits
		802.11b	802.11g	
Low	2412	5.37	-0.25	30dBm
	Spurious	All other peaks >20dB below limit		-20dBc
Mid	2437	5.59	-0.74	30 dBm
	Spurious	All other peaks >20dB below limit		-20dBc
High	2462	5.92	-0.65	30 dBm
	Spurious	All other peaks >20dB below limit		-20dBc
Measurement Uncertainty: ±1.0 dB				

**6.7.4 Test Verdict**

Pass.

### 6.7.5 Test data/ plots:

#### Conducted Spurious Emission 802.11b 2412 MHz



Date: 16.DEC.2010 16:59:46



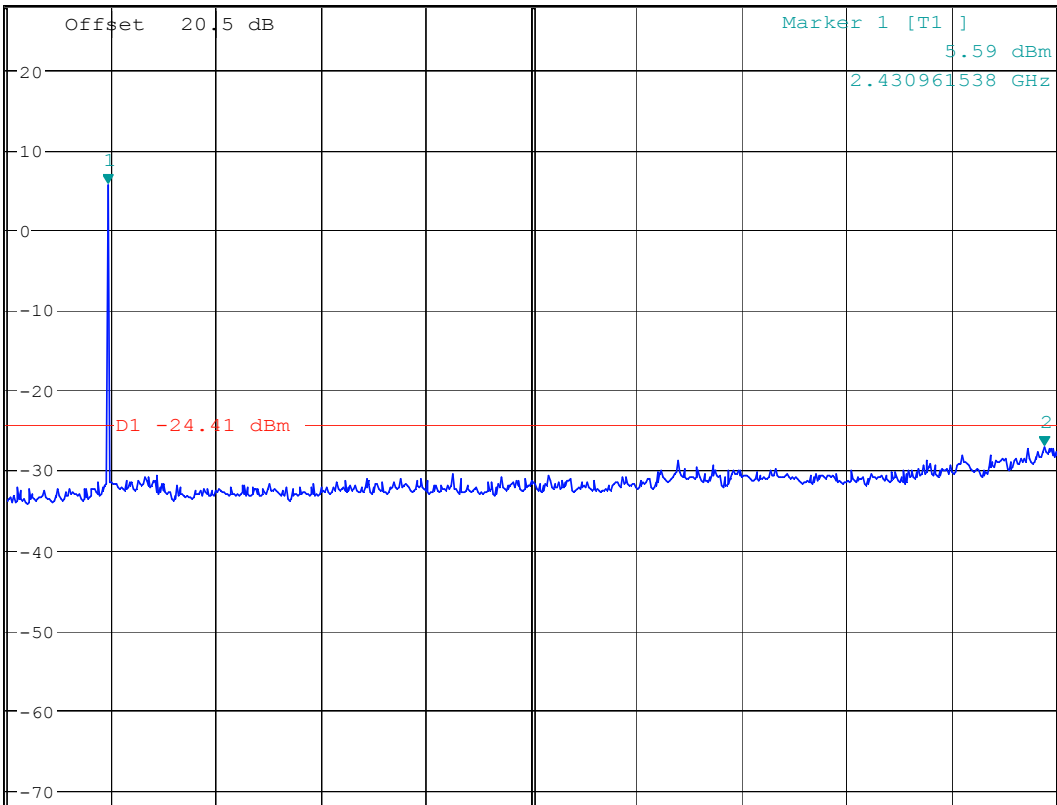
### Conducted Spurious Emission 802.11b 2437 MHz



\*RBW 100 kHz      Marker 2 [T1 ]  
\*VBW 100 kHz      -27.23 dBm  
SWT 2.5 s          24.719887821 GHz

Ref 28 dBm

Att 35 dB



Start 30 MHz

2.497 GHz/

Stop 25 GHz

Date: 16.DEC.2010 16:58:19



### Conducted Spurious Emission 802.11b 2462 MHz

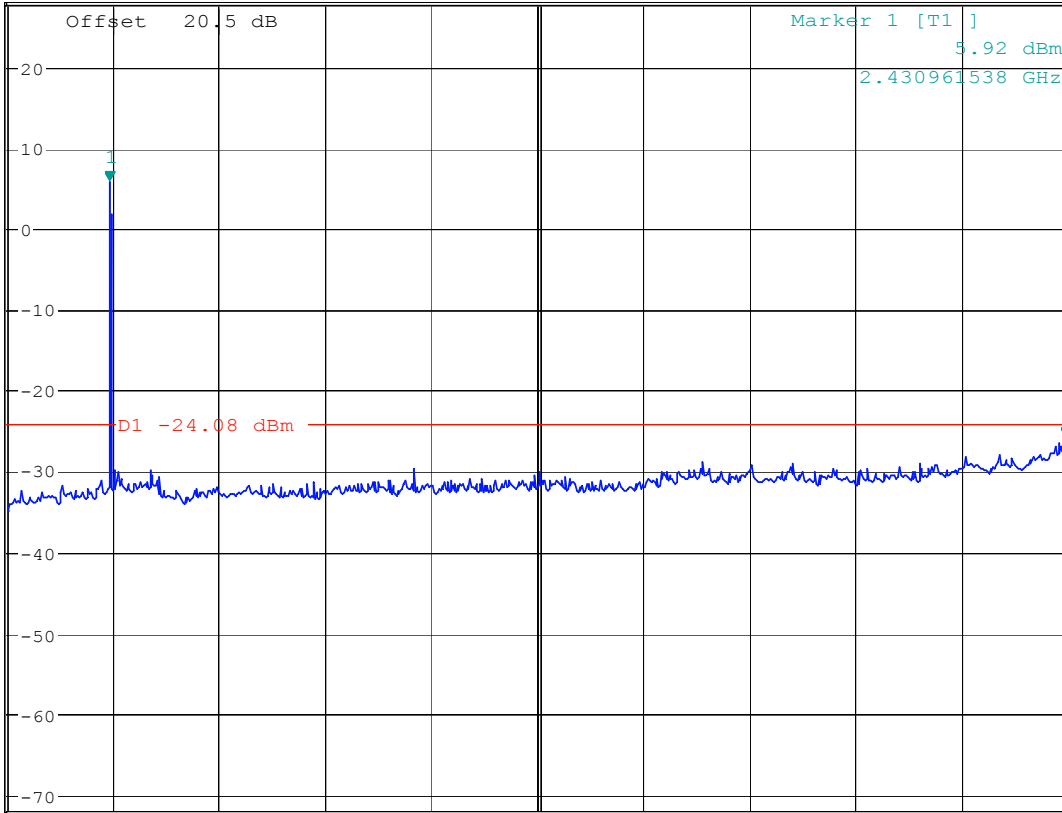


\*RBW 100 kHz      Marker 2 [T1 ]  
\*VBW 100 kHz      -25.94 dBm  
SWT 2.5 s          24.959983974 GHz

Ref 28 dBm

Att 35 dB

1 PK  
MAXH



Start 30 MHz

2.497 GHz/

Stop 25 GHz





### Conducted Spurious Emission 802.11g 2412 MHz

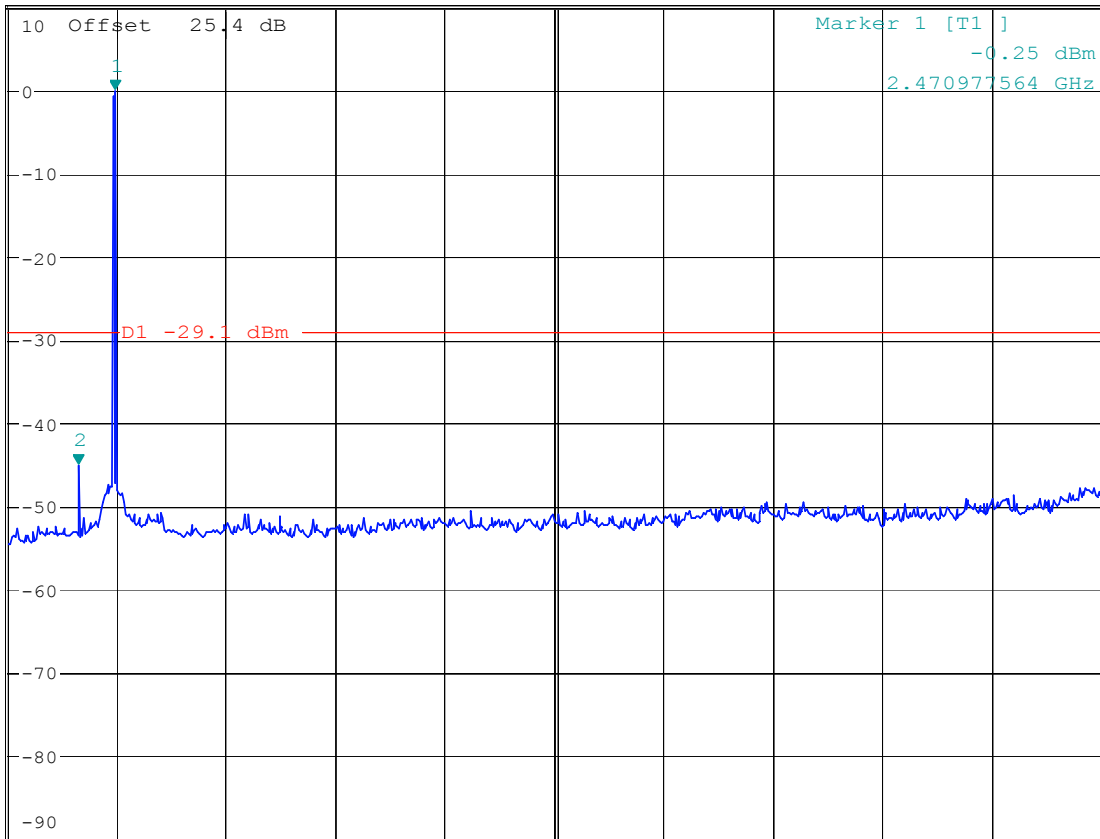


\*RBW 100 kHz      Marker 2 [T1 ]  
\*VBW 100 kHz      -45.08 dBm  
SWT 2.5 s          1.630641026 GHz

Ref 10 dBm

Att 10 dB

1 PK  
MAXH



Start 30 MHz

2.497 GHz/

Stop 25 GHz

Date: 15.JAN.2011 11:47:26

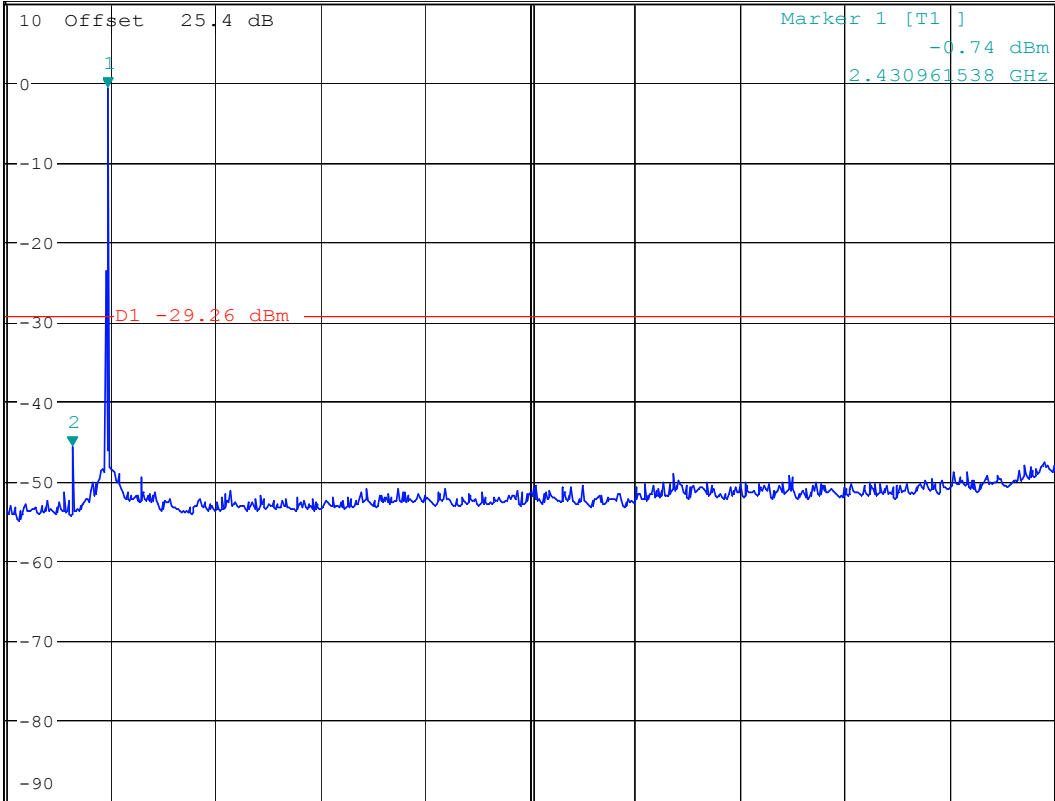
### Conducted Spurious Emission 802.11g 2437 MHz



\*RBW 100 kHz      Marker 2 [T1 ]  
\*VBW 100 kHz      -45.68 dBm  
SWT 2.5 s            1.590625000 GHz

Ref 10 dBm      Att 10 dB

1 PK  
MAXH



Start 30 MHz      2.497 GHz/      Stop 25 GHz



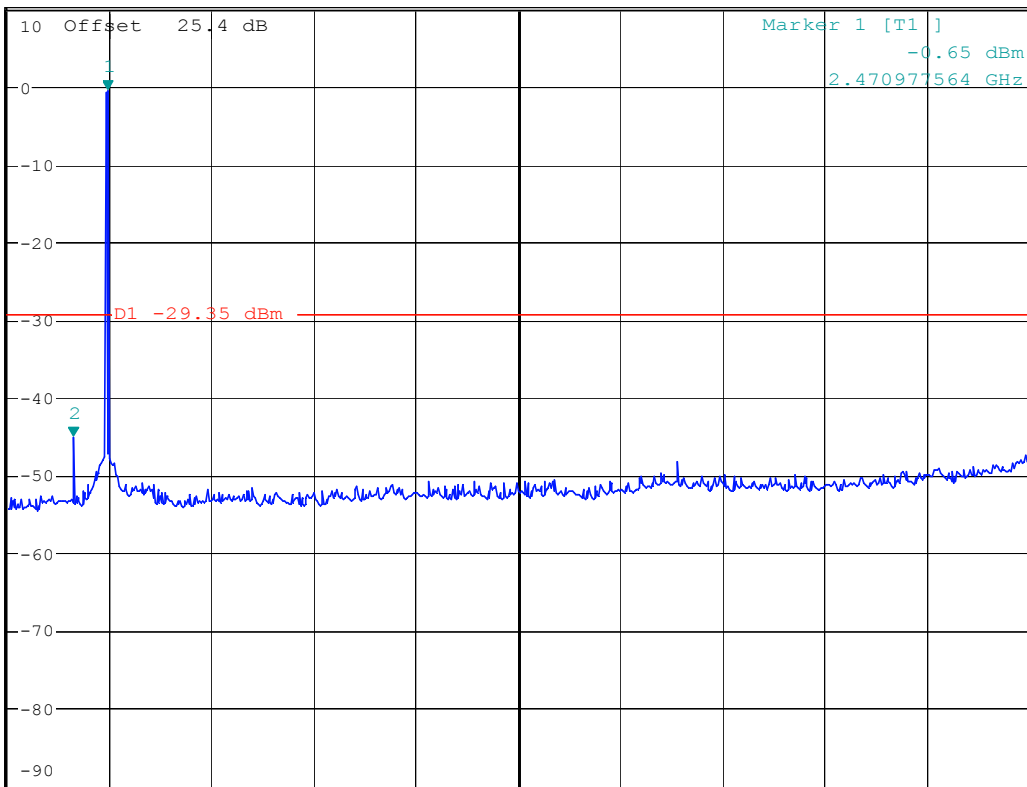
### Conducted Spurious Emission 802.11g 2462 MHz



\*RBW 100 kHz Marker 2 [T1 ]  
\*VBW 100 kHz -45.11 dBm  
SWT 2.5 s 1.630641026 GHz

Ref 10 dBm Att 10 dB

1 PK  
MAXH



Date: 15.JAN.2011 11:49:58



**6.8 Transmitter Spurious Emissions- Radiated**

**6.8.1 Limits:**

**§15.247 (d)**

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).

**§15.205 (a)**

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			

**§15.209 (a)**

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 (m)
0.009–0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30 (29.5 dBμV/m)	30
30–88	100 (40dBμV/m)	3
88–216	150 (43.5 dBμV/m)	3
216–960	200 (46 dBμV/m)	3
Above 960	500 (54 dBμV/m)	3



**RSS-Gen 7.2.2**

Restricted bands are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands;
- (b) unwanted emissions falling into restricted bands shall comply with the limits specified in RSS-Gen;

**Restrict Frequency Bands**

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

### RSS-Gen 7.2.5

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

#### General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

### 6.8.2 Measurement Procedure:

Peak measurements are made using a peak detector and RBW=1MHz.

Average measurements performed using a peak detector and according to video averaging procedure with RBW=1MHz and VBW=10Hz.

\*PEAK LIMIT= 74dB $\mu$ V/m

\*AVG. LIMIT= 54dB $\mu$ V/m

Measurement Uncertainty:  $\pm$ 3.0dB

Unless mentioned otherwise, the emissions outside the limit lines in the plots are from the transmit signal.

Plots reported here represent the worst case emissions for horizontal and vertical antenna polarizations and for three orientations of the EUT.

### 6.8.3 Test Conditions:

Tnom: 25°C; Vnom: AC

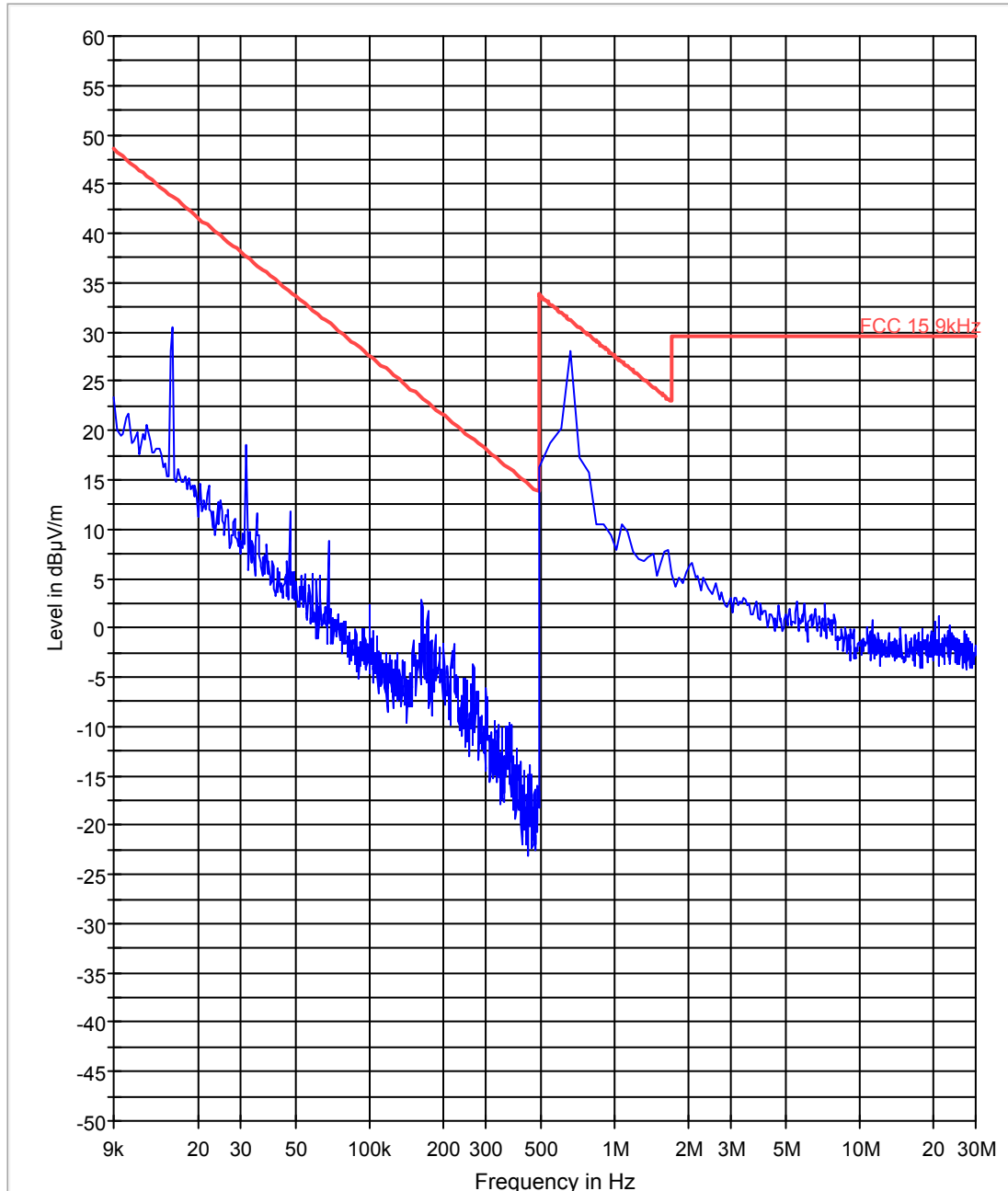
Test mode: Modulation: 802.11g - highest conducted power

### 6.8.4 Test Verdict

Pass.

**6.8.5 Test data/ plots:**  
**Transmitter Radiated Spurious Emission- 9kHz-30MHz**  
**Note: Represents worst case channel**

FCC 15 9kHz - 30 MHz

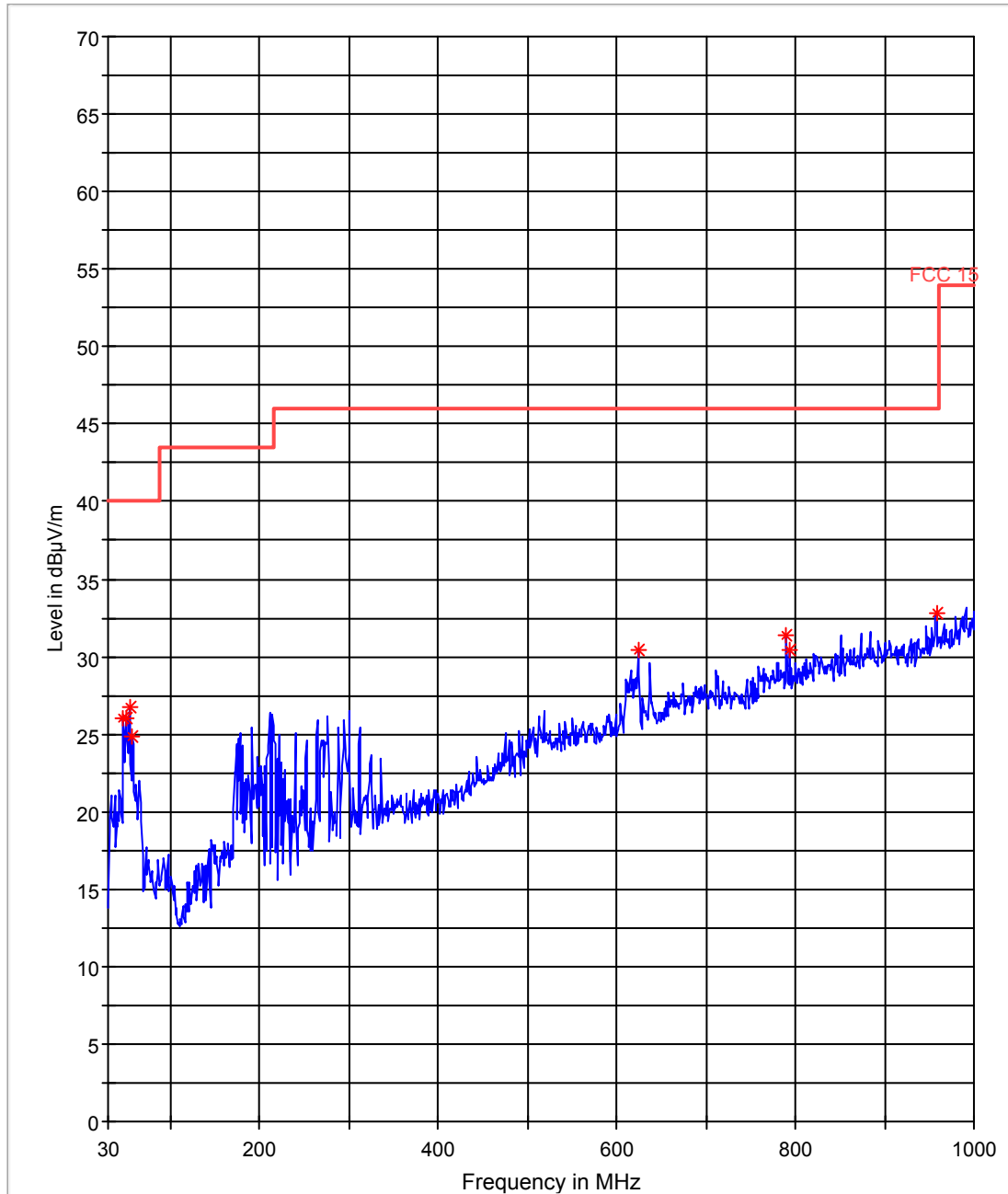


— FCC 15.9kHz.LimitLine — Preview Result 1



### Transmitter Radiated Spurious Emission- Ch1- 30M-1GHz

FCC 15 30-1000MHz



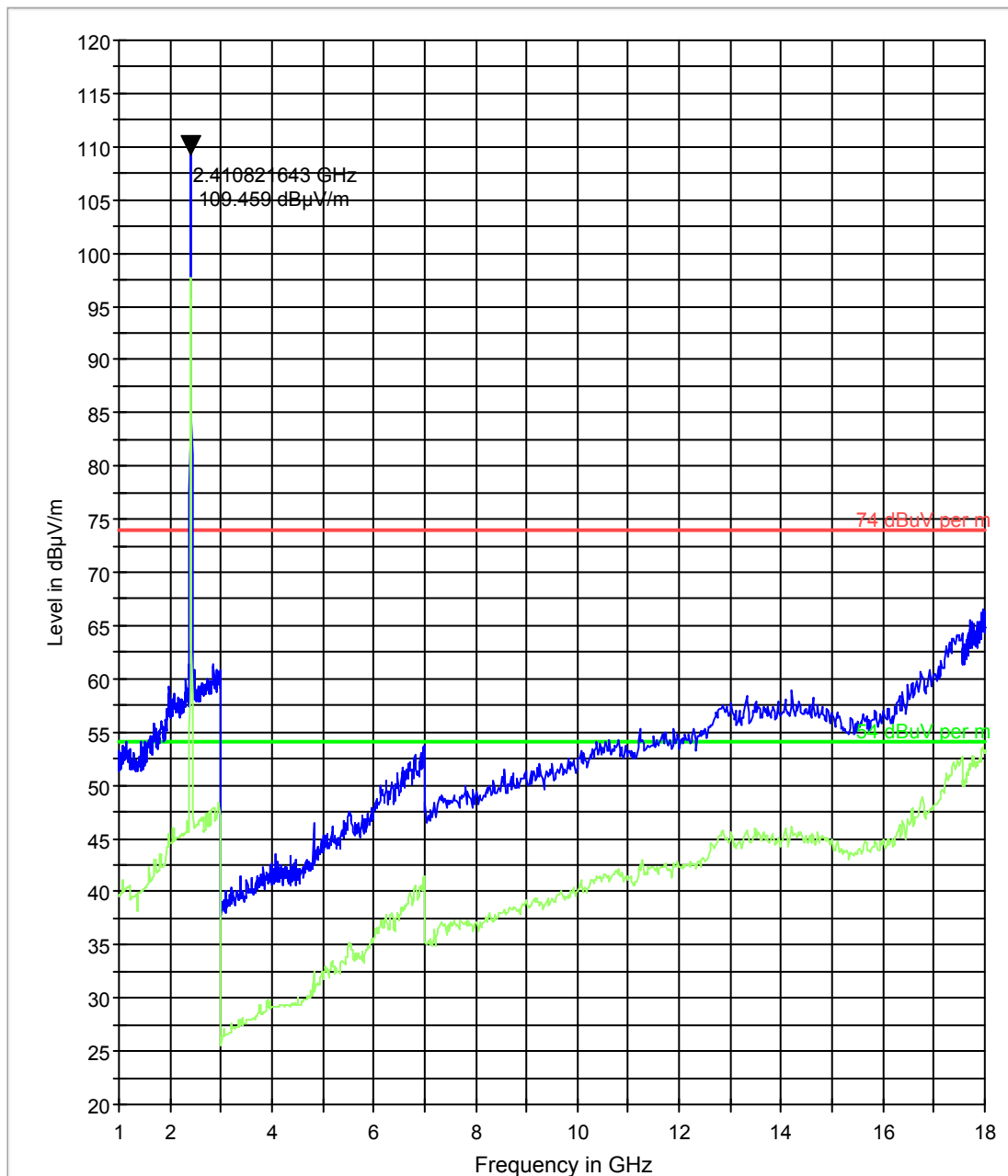
— FCC 15.LimitLine      — Preview Result 1      \* Data Reduction Result 1 [3]





### Transmitter Radiated Spurious Emission- Ch1- 1G-18GHz

FCC 15 1-18GHz

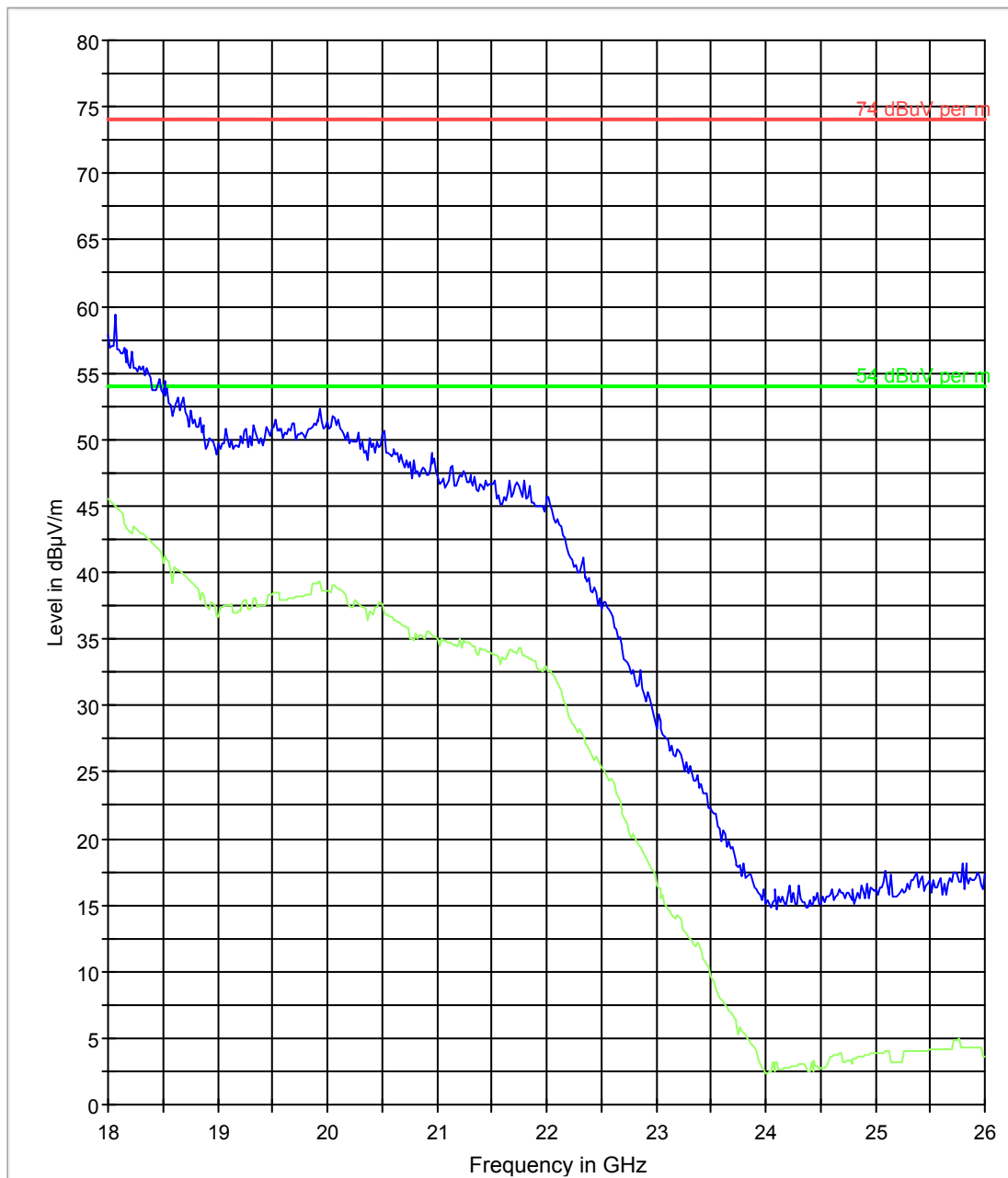


74 dBuV per m.LimitLine  
54 dBuV per m.LimitLine  
Preview Result 1  
Preview Result 2



### Transmitter Radiated Spurious Emission- Ch1- 18G-26GHz

FCC 15 18-26GHz

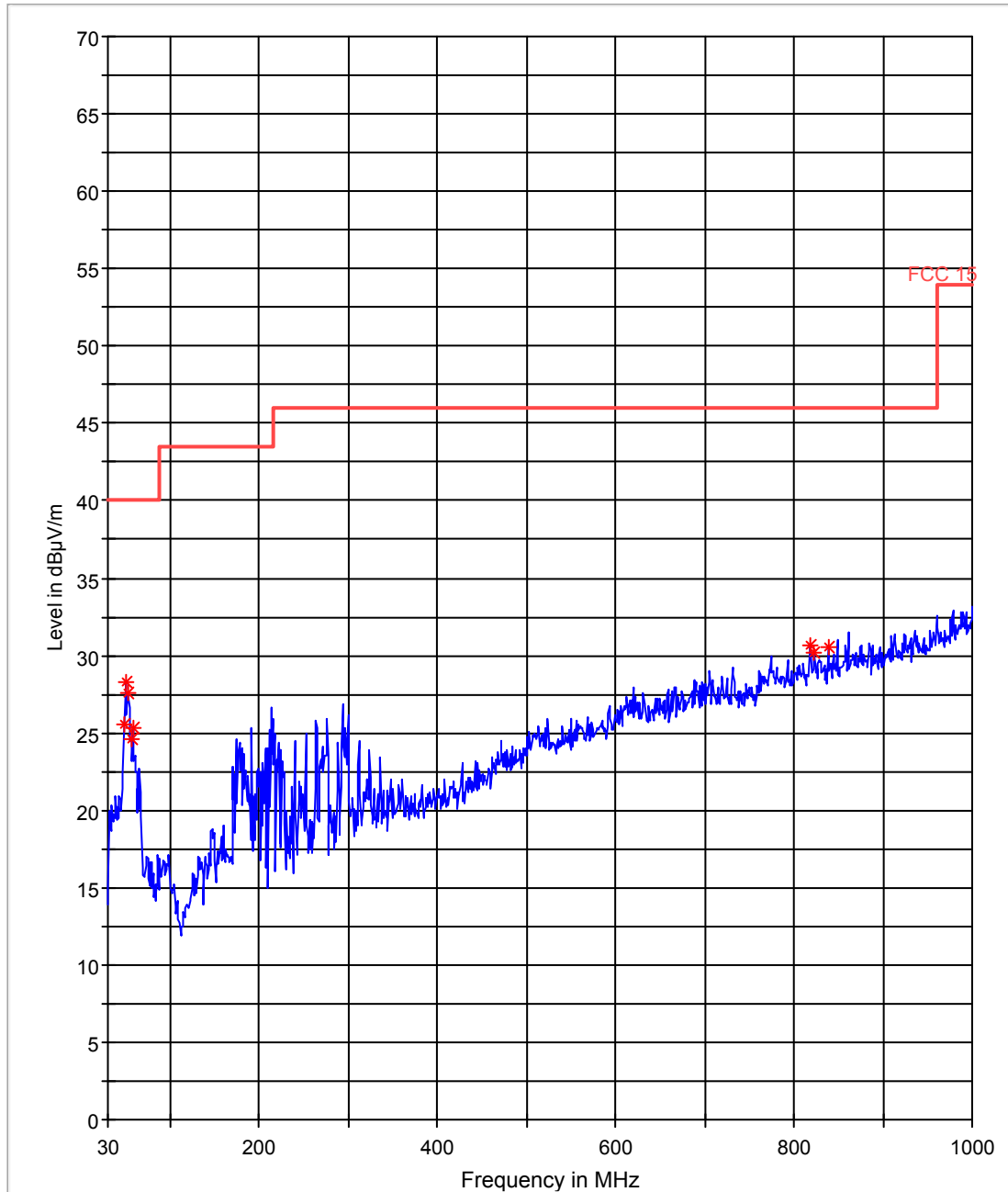


74 dBuV per m.LimitLine  
54 dBuV per m.LimitLine  
Preview Result 1  
Preview Result 2



### Transmitter Radiated Spurious Emission- Ch6- 30M-1GHz

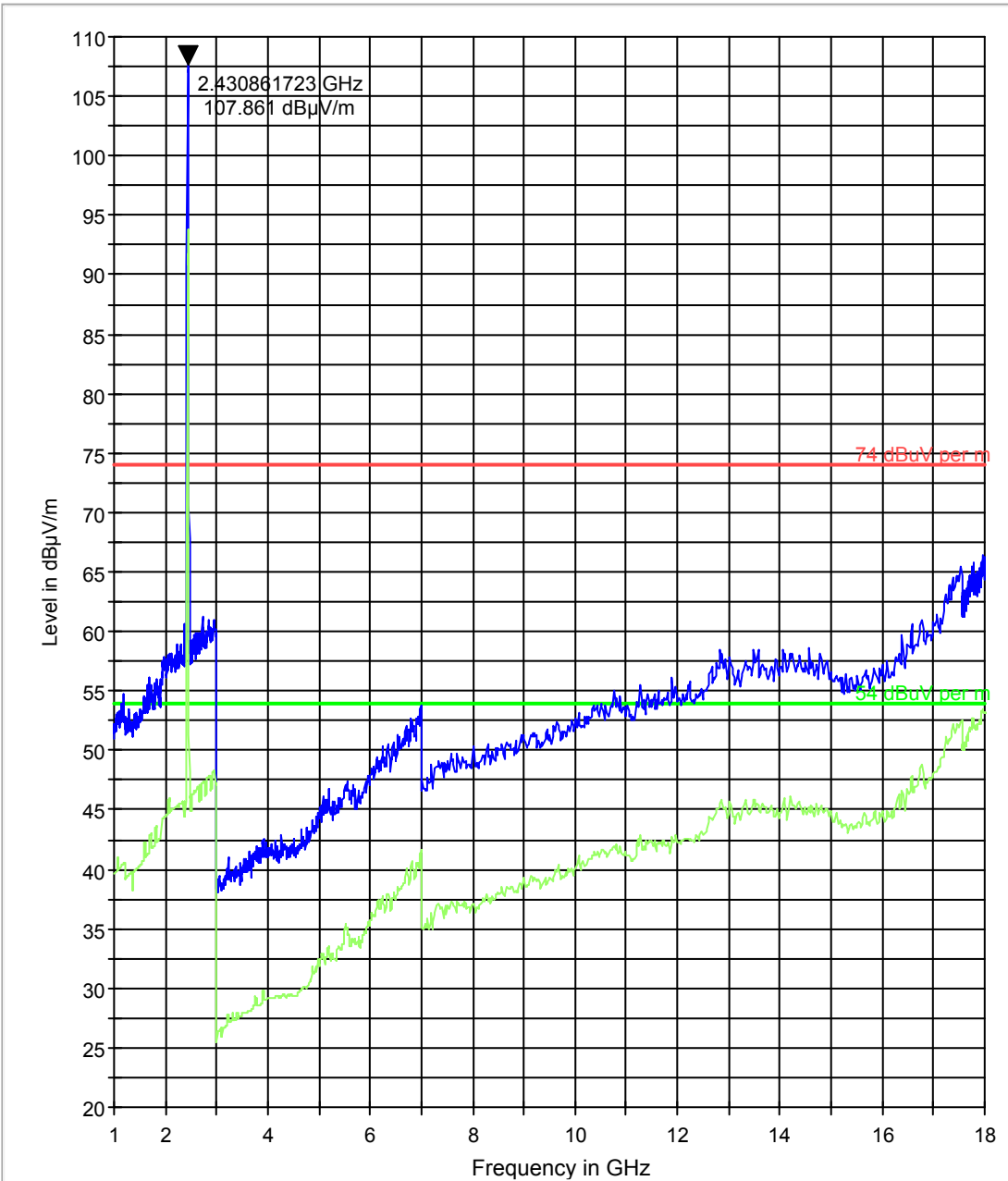
FCC 15 30-1000MHz



— FCC 15.LimitLine      — Preview Result 1      \* Data Reduction Result 1 [3]



### Transmitter Radiated Spurious Emission- Ch6- 1G-18GHz FCC 15 1-18GHz

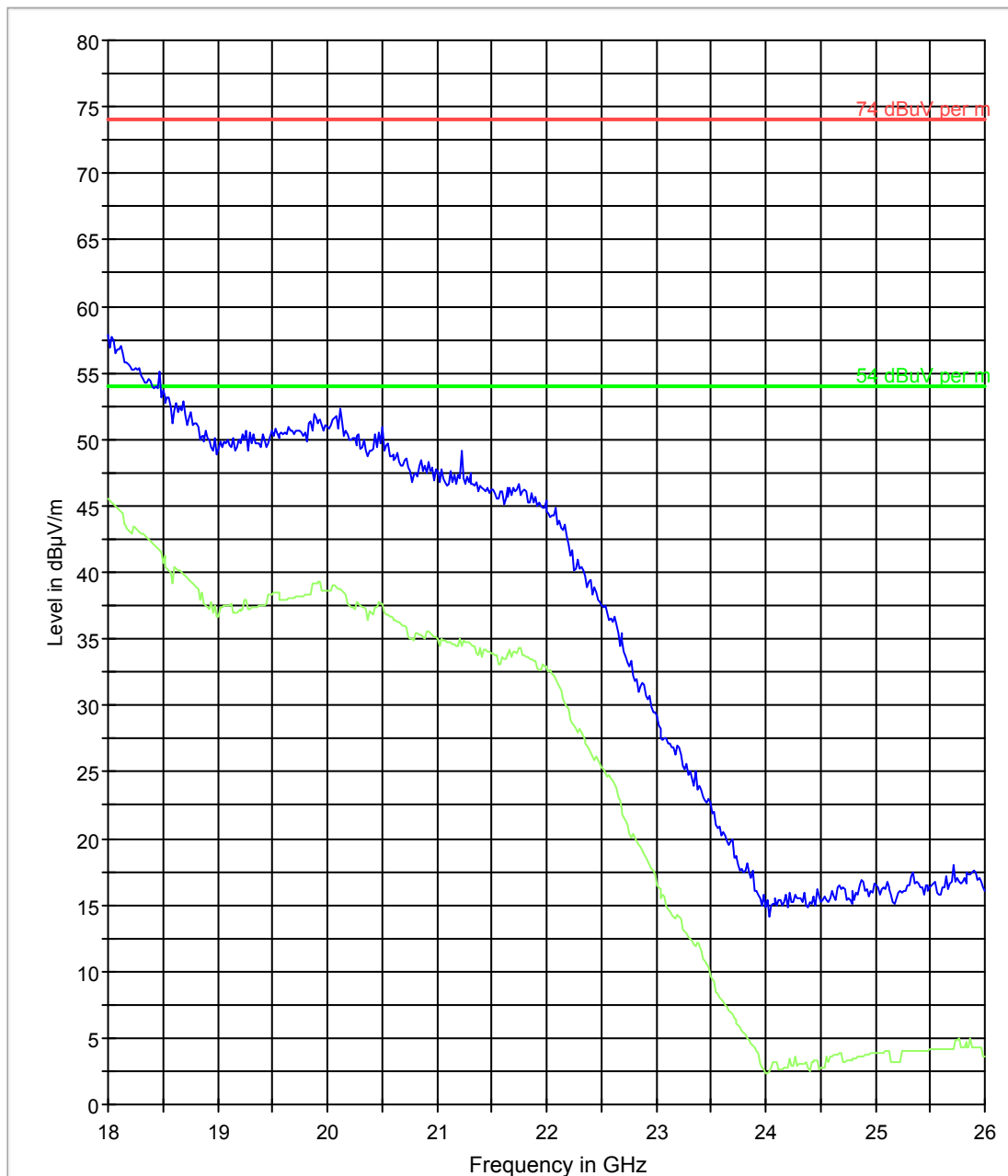


74 dBuV per m.LimitLine  
54 dBuV per m.LimitLine  
Preview Result 1  
Preview Result 2



### Transmitter Radiated Spurious Emission- Ch6- 18G-26GHz

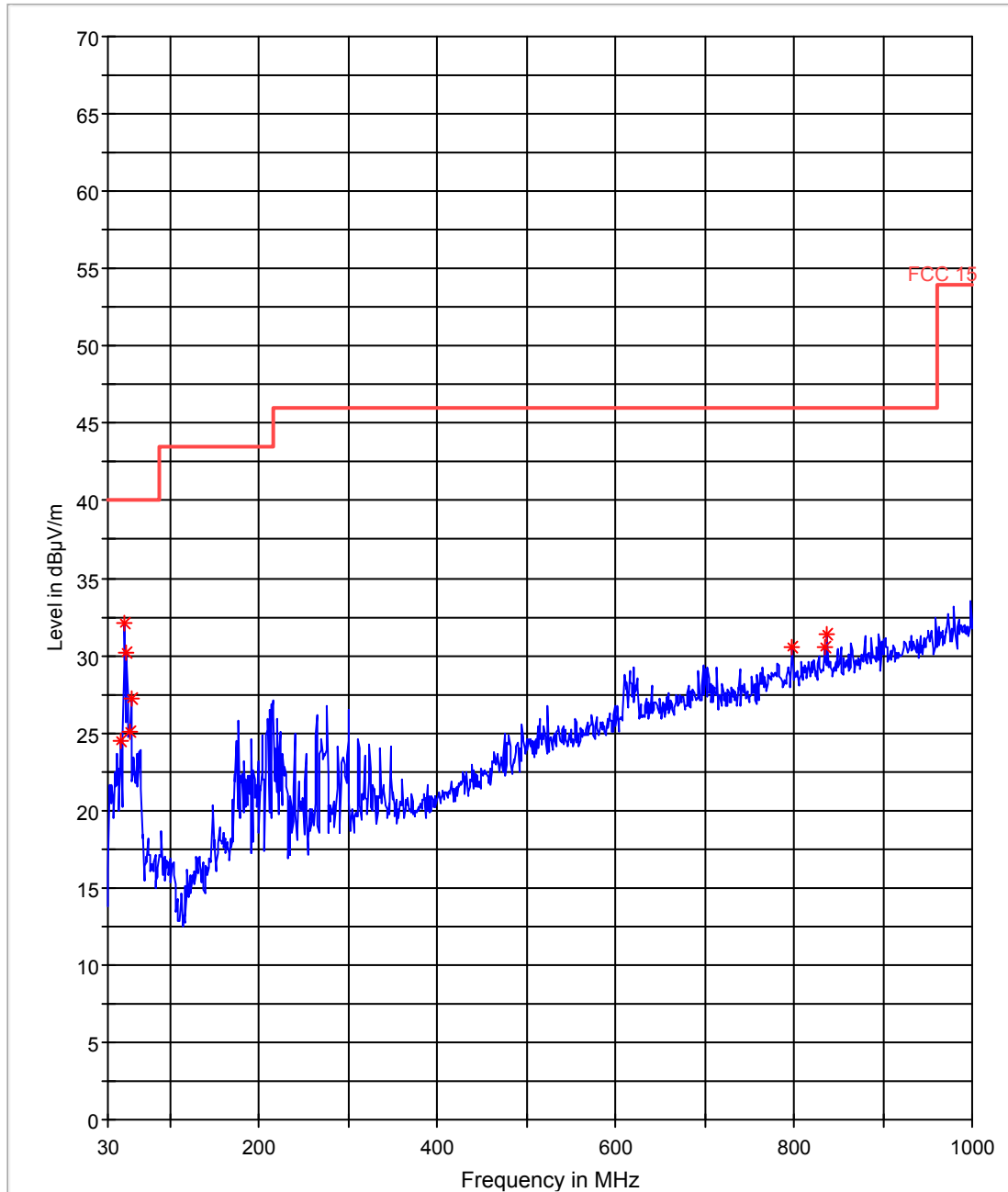
FCC 15 18-26GHz



- 74 dBuV per m.LimitLine
- 54 dBuV per m.LimitLine
- Preview Result 1
- Preview Result 2



### Transmitter Radiated Spurious Emission- Ch11- 30M-1GHz FCC 15 30-1000MHz

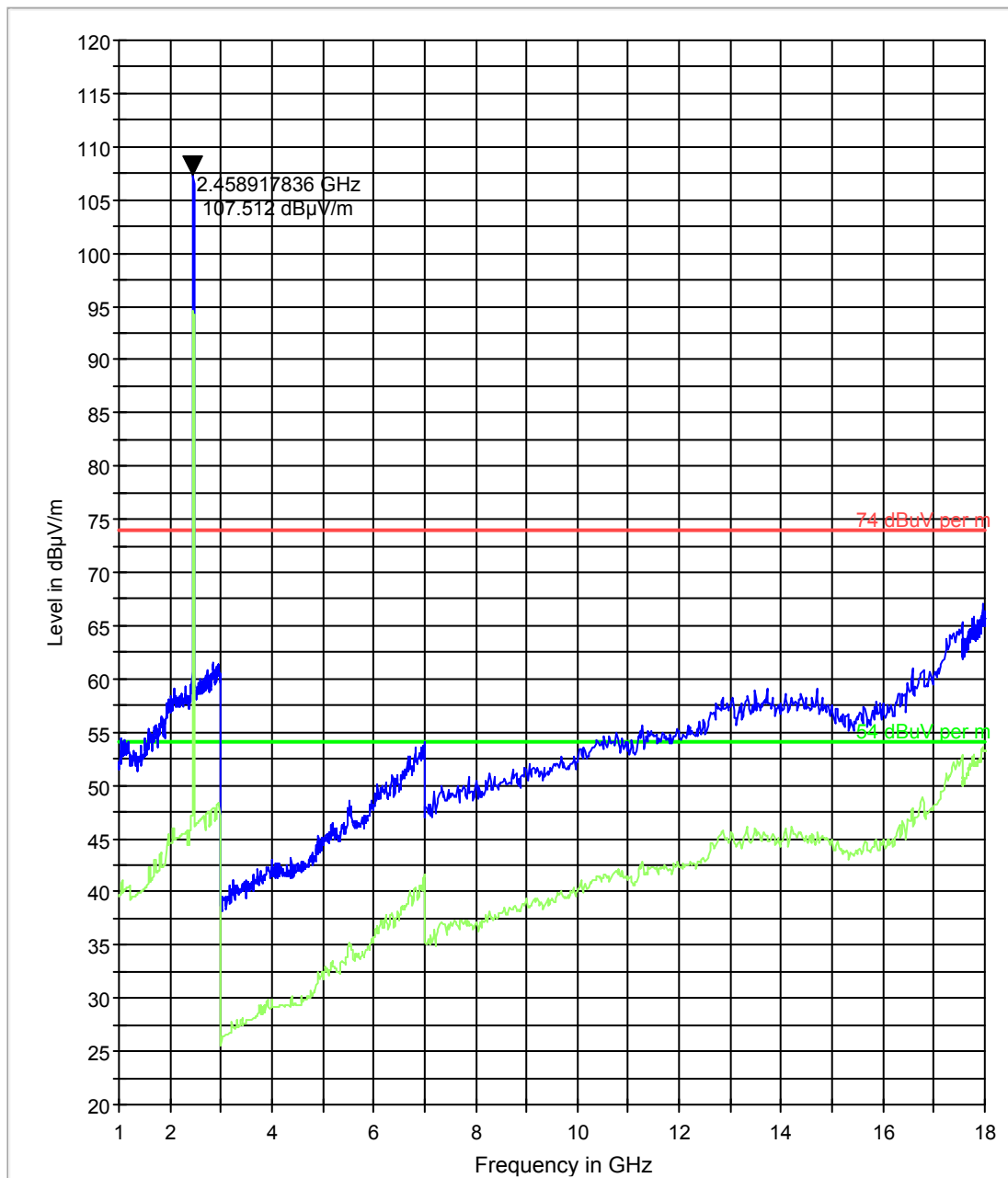


— FCC 15.LimitLine      — Preview Result 1      \* Data Reduction Result 1 [3]



### Transmitter Radiated Spurious Emission- Ch11- 1G-18GHz

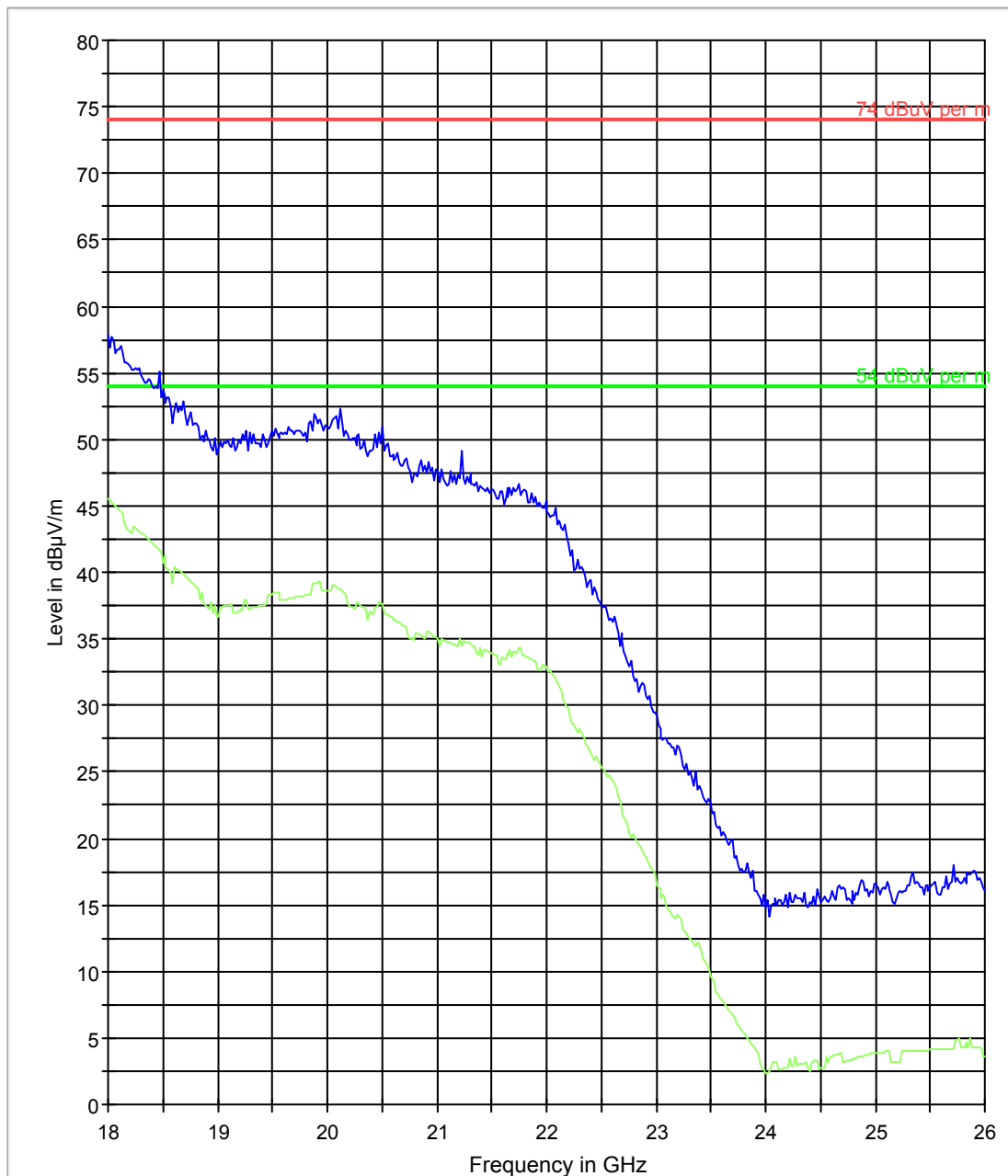
FCC 15 1-18GHz



74 dBuV per m.LimitLine  
54 dBuV per m.LimitLine  
Preview Result 1  
Preview Result 2



### Transmitter Radiated Spurious Emission- Ch11- 18G-26GHz FCC 15 18-26GHz



74 dBuV per m.LimitLine  
54 dBuV per m.LimitLine  
Preview Result 1  
Preview Result 2



## 6.9 Receiver Spurious Emissions- Radiated

### 6.9.1 Limits:

§15.109

RSS-Gen – 6.1

Frequency of emission (MHz)	Field strength ( $\mu\text{V/m}$ )	Measurement Distance (m)
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 (40dB $\mu\text{V/m}$ )	3
88–216	150 (43.5 dB $\mu\text{V/m}$ )	3
216–960	200 (46 dB $\mu\text{V/m}$ )	3
Above 960	500 (54 dB $\mu\text{V/m}$ )	3

### 6.9.2 Test Conditions:

Mode: Receive mode

Measurement Uncertainty:  $\pm 3.0\text{dB}$

### 6.9.3 Test Result:

No significant emissions measurable. Plots reported here represent the worse case emissions for horizontal and vertical antenna polarizations and for three orientations of the EUT.

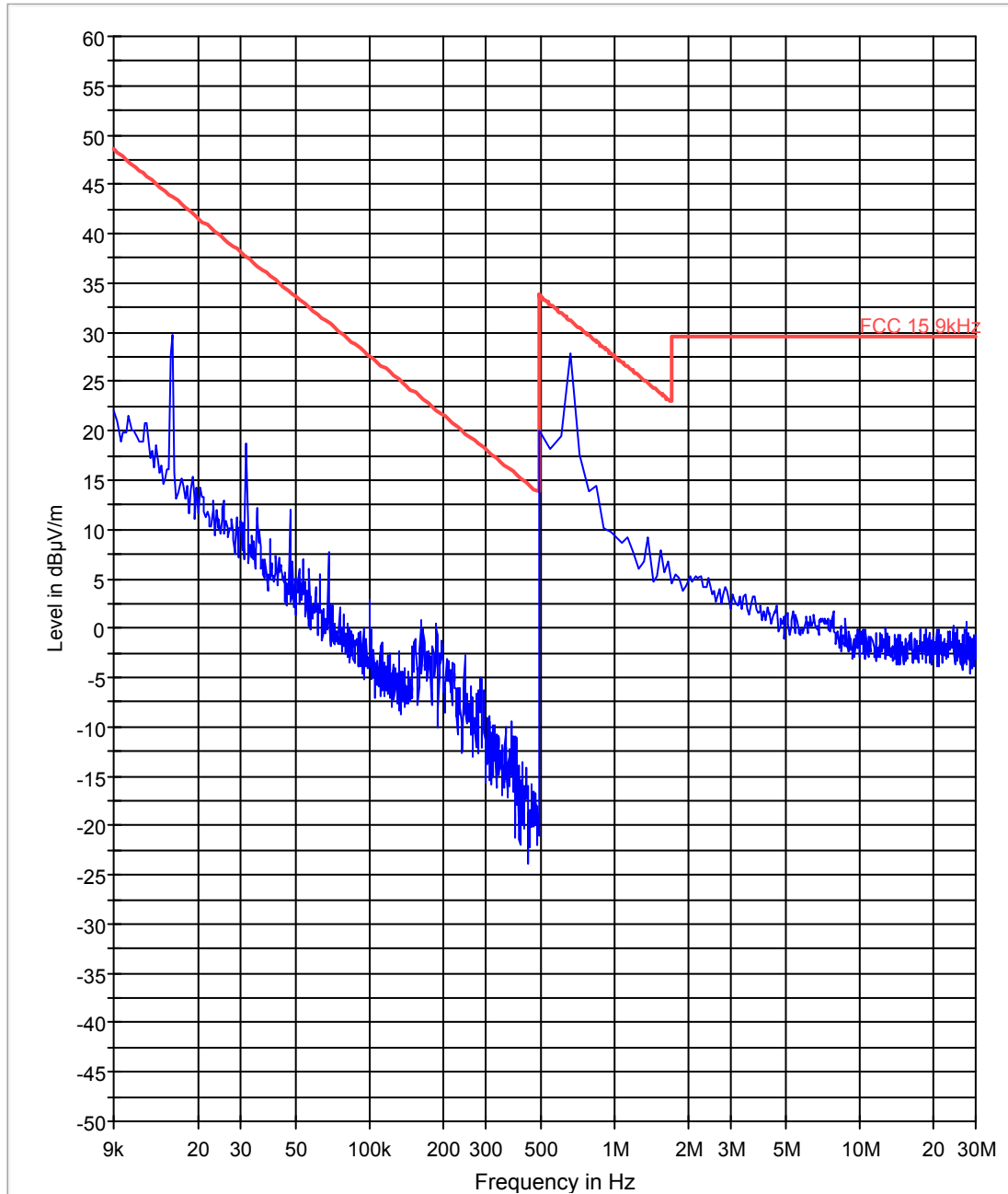
### 6.9.4 Test Verdict

Pass.



**6.9.5 Test data/ plots:**  
**Receive Mode: 30MHz-1GHz**

FCC 15 9kHz - 30 MHz

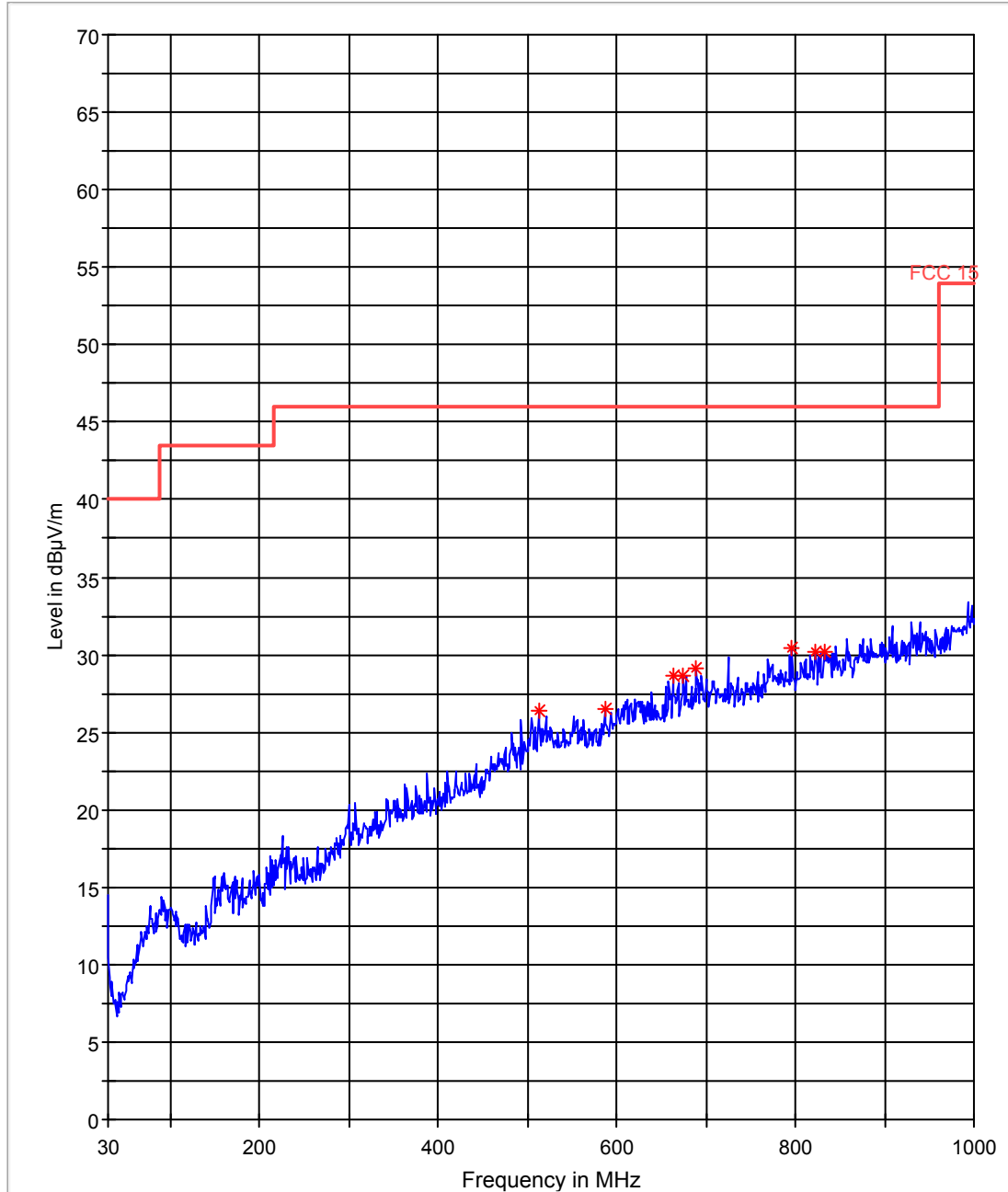


— FCC 15 9kHz.LimitLine      — Preview Result 1



Receive Mode: 30MHz-1GHz

FCC 15 30-1000MHz

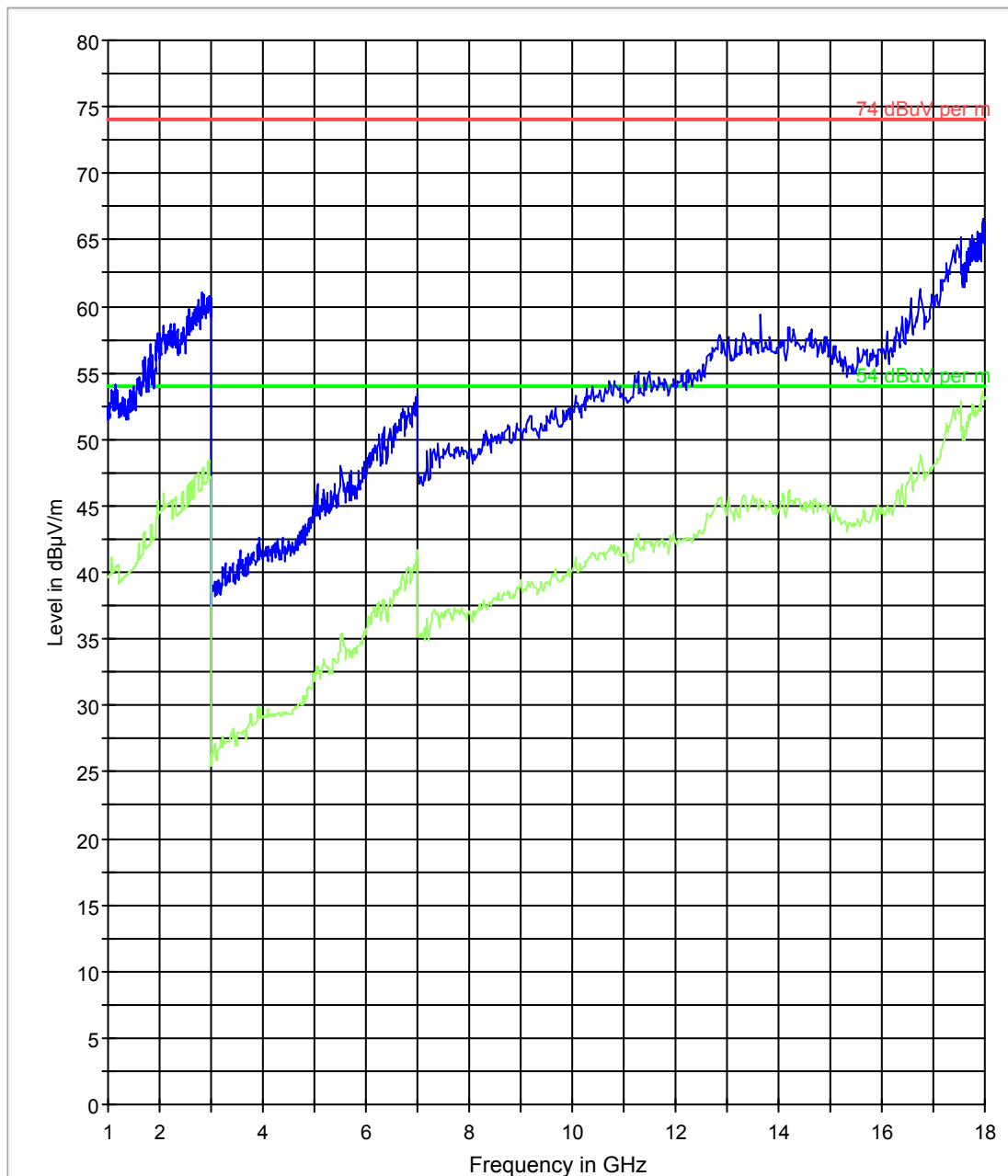


— FCC 15.LimitLine      — Preview Result 1      \* Data Reduction Result 1 [3]



Receive Mode: 1GHz-18GHz

FCC 15 1-18GHz



- 74 dBuV per m.LimitLine
- 54 dBuV per m.LimitLine
- Preview Result 1
- Preview Result 2



**6.10 AC Power Line Conducted Emissions**

**6.10.1 Limits:**

**§15.207**

(a) Except as shown in paragraphs (b) and (c) of this section of the CFR, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table (1), as measured using a 50 μH/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

**RSS-Gen 7.2.2**

Except when the requirements applicable to a given device state otherwise, for any licence-exempt radiocommunication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown below. The tighter limit applies at the frequency range boundaries.

Frequency of emission (MHz)	Conducted limit (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.

**Analyzer Settings: CISPR Bandwidth- 9KHz.**

**6.10.2 Test Conditions:**

Modulation: 802.11g- Transmit and Receive modes of operation

Measurement Uncertainty: ±3.0dB

**6.10.3 Results**

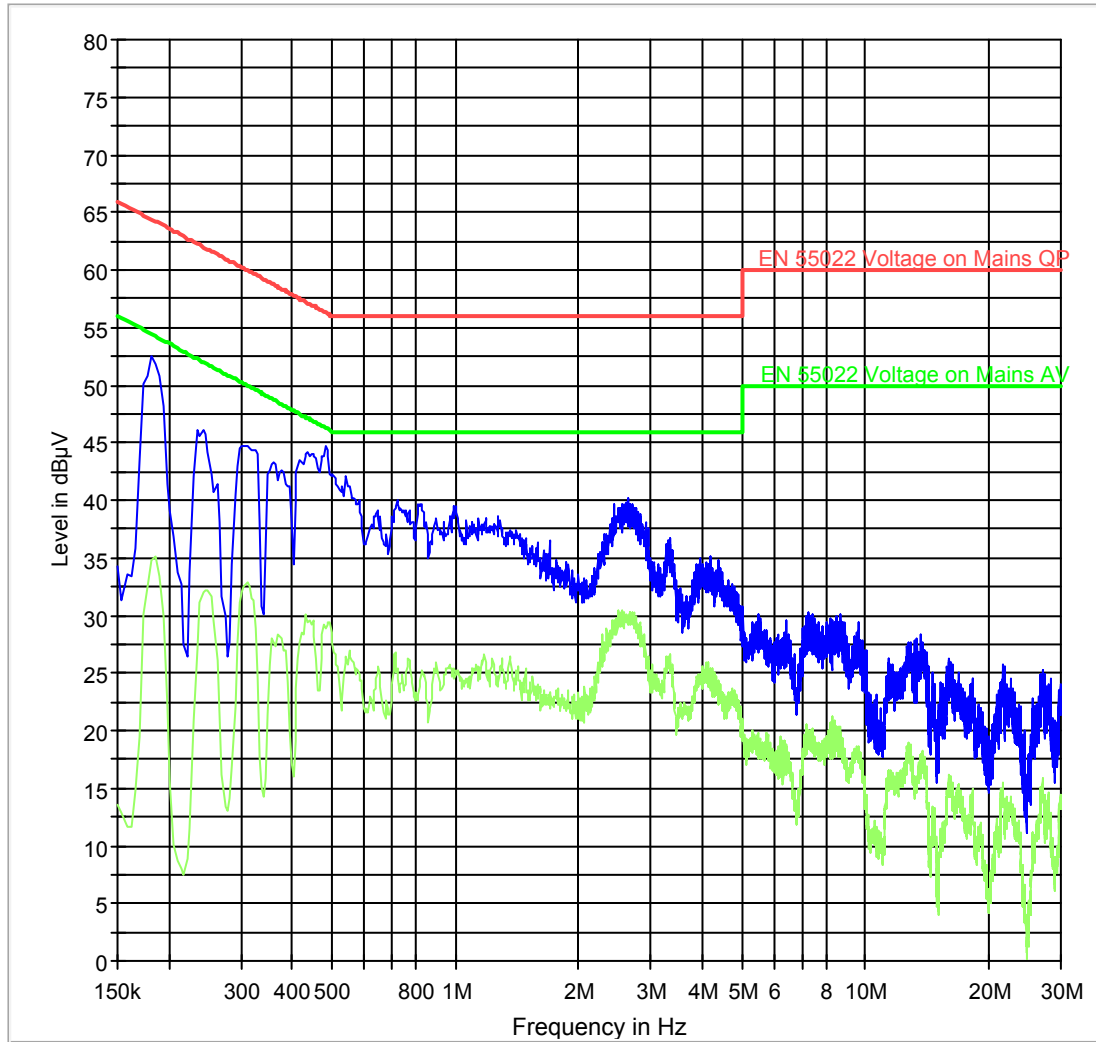
Plots shown here represent the combined worse case emissions for power lines, phases and neutral line.

**6.10.4 Test Verdict**

Pass.

**6.10.5 Test Results:**  
**WLAN TX Mode:**

CISPR 22 Mains Conducted



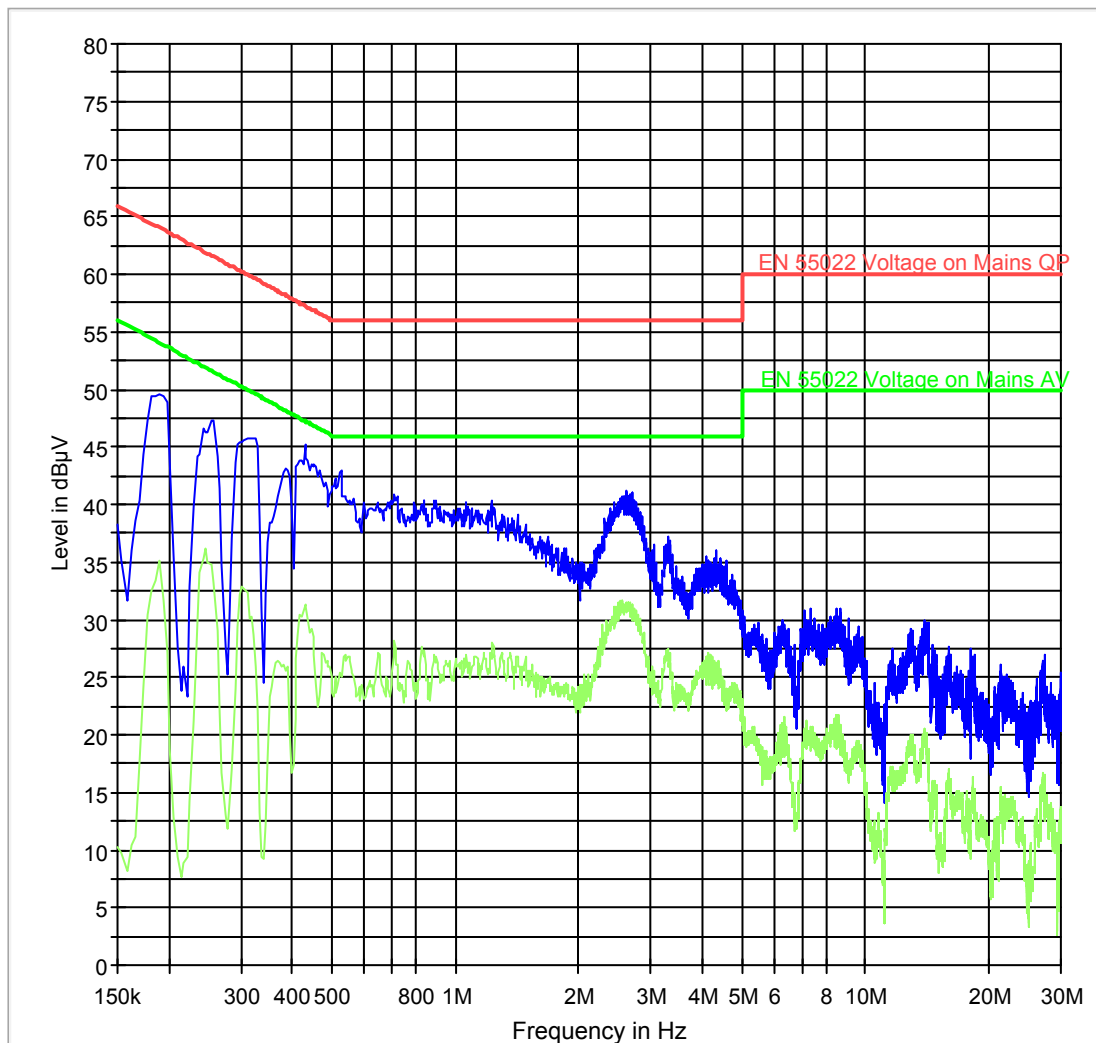
— EN 55022 Voltage on Mains QP.LimitLine  
— Preview Result 1

— EN 55022 Voltage on Mains AV.LimitLine  
— Preview Result 2



**WLAN RX Mode:**

CISPR 22 Mains Conducted



EN 55022 Voltage on Mains QP.LimitLine  
Preview Result 1

EN 55022 Voltage on Mains AV.LimitLine  
Preview Result 2

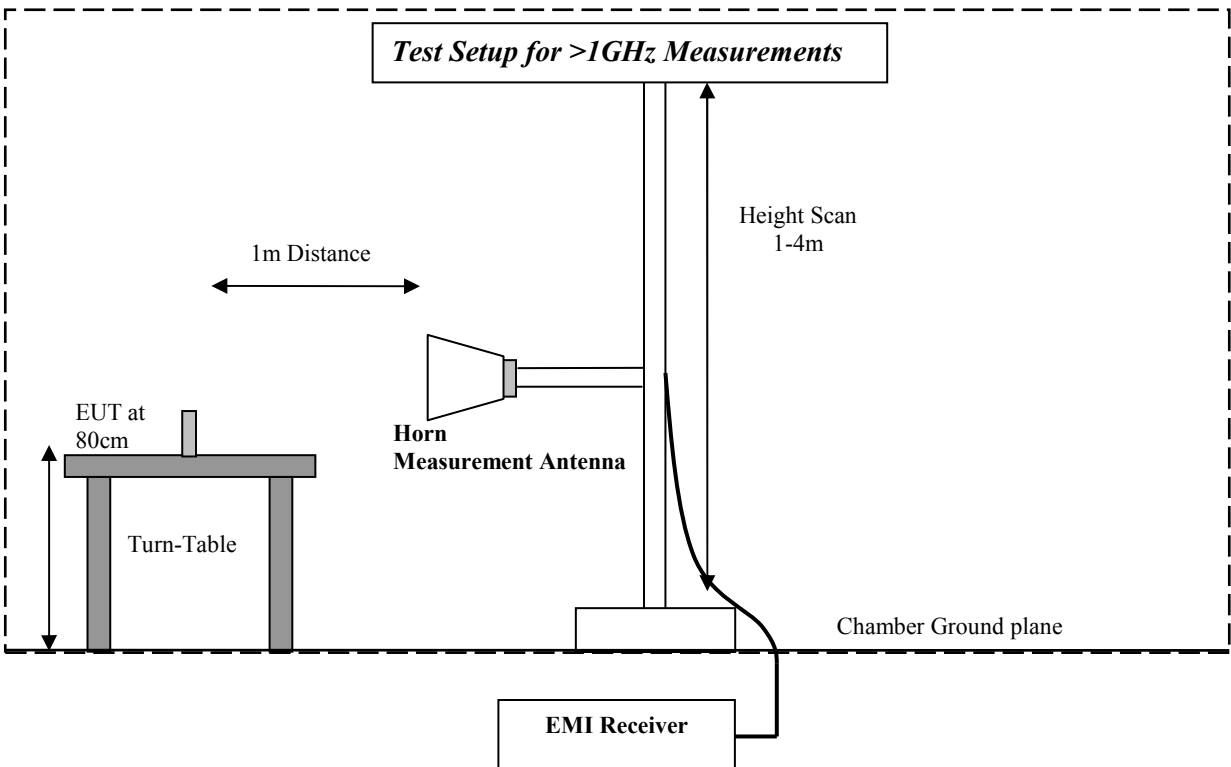
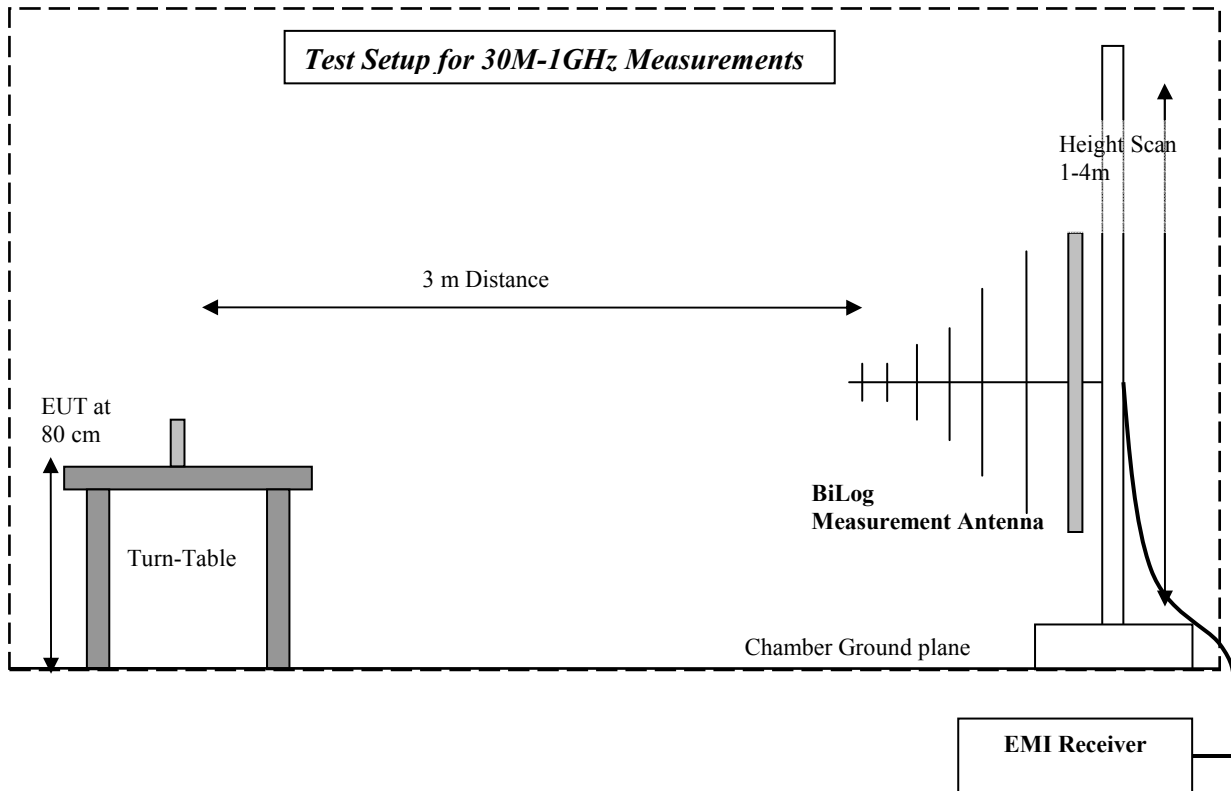


**7 Test Equipment and Ancillaries used for tests**

Instrument/Ancillary	Model	Manufacturer	Serial No.	Cal Date	Cal Interval
Radio Communication Tester	CMU 200	Rohde & Schwarz	101821	June 2010	1 year
EMI Receiver/Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2010	1 year
Spectrum Analyzer	FSU	Rohde & Schwarz	200302	Jul 2010	1 year
Loop Antenna	6512	EMCO	00049838	April 2009	2 years
Biconilog Antenna	3141	EMCO	0005-1186	June 2009	2 years
Horn Antenna (1-18GHz)	3115	ETS	00035111	Jan 2009	3 years
Horn Antenna (18-40GHz)	3116	ETS	00070497	Jan 2009	3 years
Communication Antenna	IBP5-900/1940	Kathrein	n/a	n/a	n/a
High Pass Filter	5HC2700	Trilithic Inc.	9926013	Part of system calibration	
High Pass Filter	4HC1600	Trilithic Inc.	9922307	Part of system calibration	
6GHz High Pass Filter	HPM50106	Microtronics	001	Part of system calibration	
Pre-Amplifier	JS4-00102600	Miteq	00616	Part of system calibration	
LISN	50-25-2-08	FCC	08014	June 2010	1 year
Power Smart Sensor	R&S	NRP-Z81	100161	June 2010	1 Year
Multimeter	179	Fluke	N/A	Feb 2010	1 Year
Temp Hum Logger	TM320	Dickson	03280063	Feb 2010	1 Year
Temp Hum Logger	TM325	Dickson	5285354	Feb 2010	1 Year



### 8 Block Diagrams





**9 Revision History**

<b>Date</b>	<b>Report Name</b>	<b>Changes to report</b>	<b>Report prepared by</b>
<b>2011-01-27</b>	<b>EMC_TRIM2_001_09001_15.247WLAN_616</b>	<b>First Version</b>	<b>Josie Sabado</b>
<b>2011-03-03</b>	<b>EMC_TRIM2_001_09001_15.247WLAN_616_rev1</b>	<b>Updated EUT information. Added measurements for radiated spurious emissions 9kHz to 30MHz. Replaces previous report number.</b>	<b>Josie Sabado</b>
<b>2013-10-09</b>	<b>EMC_TRIM2_001_09001_15.247WLAN_616_rev2</b>	<b>Updated references to FCC and IC standards. Replaces previous report number.</b>	<b>Josie Sabado</b>