

# Klein Tools Inc.

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING-ET21

**REPORT NUMBER**

250321207GZU-001

**ISSUE DATE**

18-August-2025

**[REVISED DATE]**

[-----]

**PAGES**

70

**DOCUMENT CONTROL NUMBER**

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**TEST REPORT**

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Applicant Name & : Klein Tools Inc.  
Address : 450 Bond Street, LINCOLNSHIRE IL 60069 USA  
Manufacturing Site : See page 4  
Intertek Report No : 250321207GZU-001  
FCC ID : 2AI28-ET21  
IC : 21655-ET21

**Test standards**

**47 CFR PART 15 Subpart C: 2023 section 15.247**

**RSS-247 Issue 3: August 2023**

**RSS-Gen Issue 5: April 2018+A1: March 2019+A2: February 2021**

**Sample Description**

Product : Wireless Borescope  
Model No. : ET21  
Electrical Rating : Powered by: 1 x 3.7V 2600mAh(9.625Wh) Li-ion battery  
Charged by: 5Vdc, 1A  
Serial No. : Test sample 1  
Date Received : 21 March 2025  
Date Test Conducted : 03 June 2025-07 June 2025

Prepared and Checked By

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Approved By:

*Dean Liu*

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Sr. Project Engineer

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**TEST REPORT**
**1.0 TEST RESULT SUMMARY**

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C section 15.247 (c) and Section 15.203 RSS-Gen Clause 8.3	FCC PART 15 C section 15.247 (c) and Section 15.203 RSS-Gen Clause 6.8	PASS
6 dB Bandwidth (DTS bandwidth) 99% Bandwidth	FCC PART 15 C section 15.247 (a)(2) RSS-247 Clause 5.2(a)	ANSI C63.10: Clause 11.8 RSS-Gen clause 6.7	PASS
Maximum Average Conducted Output Power and E.I.R.P	FCC PART 15 C clause 5.247(b)(3) RSS-247 Clause 5.4(d)	ANSI C63.10: Clause 11.9.2.3.1 RSS-Gen clause 6.12	PASS
Peak Power Spectral Density	FCC PART 15 C section 15.247(e) RSS-247 Clause 5.2(b)	ANSI C63.10: Clause 11.10.2 RSS-Gen clause 6.13	PASS
Out of Band Conducted Emissions	FCC PART 15 C section 15.209 &15.247(d) RSS-247 Clause 5.5	ANSI C63.10: Clause 11.11 RSS-Gen clause 6.13	PASS
Radiated Emission	FCC PART 15 C section 15.209 &15.247(d) RSS-247 Clause 3.3 &5.5	ANSI C63.10: Clause 11.11, 11.12.1, 6.4, 6.5 and 6.6 RSS-Gen clause 6.13, 8.10	PASS
Band Edges Measurement	FCC PART 15 C section 15.247 (d) &15.205 RSS-247 Clause 5.5	ANSI C63.10: Clause 11.11 and 11.13 RSS-Gen clause 6.13	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207 RSS-Gen Clause 8.8	ANSI C63.10: Clause 6.2	PASS
<b>Remark:</b> N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2013 in the whole report HVIN: ET21 PMN: Wireless Borescope FVIN: ET21v1.1.7 HMN: N/A			

**Manufacturing Site:**
**1.Uni-Trend Technology (China) Co.,Ltd**
**No. 6, Gong Ye Bei 1st Road, Songshan Lake National High-Tech Industrial Development Zone,  
DONGGUAN Guangdong Province 523808 CHINA**
**2.UNI-TREND TECHNOLOGY (VIETNAM) COMPANY LIMITED**
**Factories RBF.E & RBF.F, Lot D, Thuan Thanh III Industrial Park, Sub-zone B, Gia Dong Ward,  
THUAN THANH TOWN, Bac Ninh Province VIETNAM**

## TEST REPORT

### 2.0 General Description

#### 2.1 Product Description

Operating Frequency:	2412 MHz to 2462 MHz for 802.11b/g/n(HT20)
Type of Modulation:	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n: OFDM (BPSK/QPSK/16QAM/64QAM)
Transmit Data Rate:	802.11b :1/2/5.5/11 Mbps 802.11g :6/9/12/18/24/36/48/54 Mbps 802.11n(HT20): 6.5/13/19.5/26/39/52/58.5/65/72.2Mbps
Number of Channels	11 Channels for 802.11b/g/n(HT20)
Channel Separation:	5 MHz
Antenna Type	FPC antenna
Function:	Wireless Borescope with 2.4 GHz WIFI
EUT Power Supply:	Powered by: 1 x 3.7V 2600mAh(9.625Wh) Li-ion battery Charged by: 5Vdc, 1A
Power cord:	1 m unscreened USB cable

EUT channels and frequencies list:

For 802.11b/g/n(HT20): test frequencies are lowest channel 1: 2412 MHz, middle channel 6: 2437 MHz and highest channel 11: 2462 MHz.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	

#### 2.2 Related Submittal(s) Grants

This is an application for certification of DTS- Digital Transmission System

## TEST REPORT

### 2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

### 2.4 Test Facility

All tests were performed at:

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch  
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

Except Conducted Emissions was performed at:

Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is recognized by ISED, the ISED Conformity Assessment Body Identification Number (CAB ID) is CN0024.

## 3.0 System Test Configuration

### 3.1 Justification

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V/60Hz supply.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

## TEST REPORT

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

### 3.2 EUT Exercising Software

Description	Manufacturer	Model No.	SN/Version	Supplied by
For fixing frequency	TaiXin Semiconductor	WiFiTestTool	Version:V1.1.7	Client

### 3.3 Special Accessories

No special accessories used.

## TEST REPORT

### 3.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	20 dB Bandwidth	2.31%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.31%
3	Dwell Time	1.19%
4	Maximum Peak Conducted Output Power	1.98 dB
5	Peak Power Spectral Density	1.98 dB
6	Out of Band Conducted Emissions	1.98 dB
7	Band edges measurement	1.98 dB
8	Radiated Emissions	3.64 dB (9 kHz-30 MHz)
		4.26 dB (30 MHz-1 GHz)
		4.96 dB (1 GHz-18 GHz)
		5.16 dB (18 GHz-40 GHz)
9	Conducted Emissions at Mains Terminals	2.23 dB
10	Temperature	0.81 °C
11	Humidity	1.73%
12	Time	1.19%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

### 3.5 Equipment Modification

Any modifications installed previous to testing by Klein Tools Inc.  
 will be incorporated in each production model sold / leased in the United States and Canada.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

### 3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:  
 Cable

**TEST REPORT**

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(shielded)	Intertek
USB extension cord	USB-01	USB	1.0 m(shielded)	Intertek
Adapter to EUT	--	USB A to USB C	1 m(unshielded)	applicant

**Support equipment**

Description	Model No.	Rating	Supplied by
NoteBook	Latitude 5420	100-240VAC,50/60Hz	Intertek
Control board	TaiXin Semiconductor	--	Client
Adapter	YTY-12F-0105100US	Input:100-277VAC,50/60Hz Output:DC5V,2A	Intertek

**Remark:**

After the frequency was fixed, Notebook and Fix board were removed out of the Chamber before test.

**TEST REPORT****4.0 Measurement Results****4.1 Antenna Requirement**

Standard requirement:

15.203 requirement:

For intentional device. According to 15.203 an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

RSS-GEN section 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.<sup>9</sup> When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

*This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.*

Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

EUT Antenna

The antenna is an integral antenna and no consideration of replacement. The best case gain of the antenna is -0.3dBi.

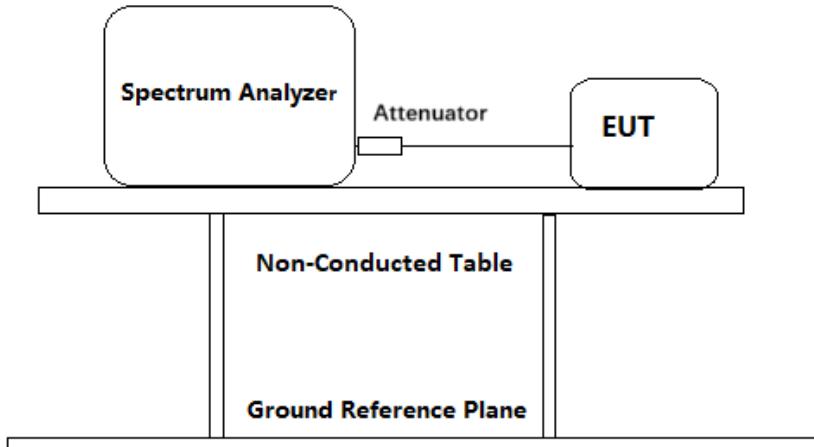


## TEST REPORT

### 4.2 6 dB Bandwidth (DTS bandwidth)

Test Requirement:	FCC Part 15 C section 15.247 RSS-247 Clause 5.2(a)  (a)(2)Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
5.2 Digital transmission systems	DTSS include systems that employ digital modulation techniques resulting in spectral characteristics similar to direct sequence systems. The following applies to the bands 902-928 MHz and 2400-2483.5 MHz:
Test Method:	a) The minimum 6 dB bandwidth shall be 500 kHz.  ANSI C63.10: Clause 11.8 RSS-Gen clause 6.7
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

#### Test Configuration:



#### Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyzer:
  - a) Set RBW = 100 kHz
  - b) Set the VBW  $\geq [3 \times \text{RBW}]$
  - c) Detector = peak.
  - d) Trace mode = max hold.
  - e) Sweep = auto couple

## TEST REPORT

f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

h) Span=2\*BW~5\*BW

3. Repeat until all the test status is investigated.

4. Report the worst case.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

#### 6 dB bandwidth

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured 6dB bandwidth (MHz)	Limit	Result
1	2412	802.11b	1 Mbps	13.02	$\geq 500\text{KHz}$	Pass
6	2437		1 Mbps	11.92		Pass
11	2462		1 Mbps	12.04		Pass
1	2412	802.11g	6 Mbps	16.56	$\geq 500\text{KHz}$	Pass
6	2437		6 Mbps	16.44		Pass
11	2462		6 Mbps	16.32		Pass
1	2412	802.11n (HT20)	6.5 Mbps	17.37	/	Pass
6	2437		6.5 Mbps	17.37		Pass
11	2462		6.5 Mbps	17.48		Pass

#### 99% bandwidth

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured 99%bandwidth (MHz)	Limit	Result
1	2412	802.11b	1 Mbps	16.09	/	Pass
6	2437		1 Mbps	16.15		Pass
11	2462		1 Mbps	16.15		Pass
1	2412	802.11g	6 Mbps	17.02	/	Pass
6	2437		6 Mbps	17.02		Pass
11	2462		6 Mbps	16.90		Pass
1	2412	802.11n	6.5 Mbps	17.95		Pass

## TEST REPORT

6	2437	(HT20)	6.5 Mbps	18.00		Pass
11	2462		6.5 Mbps	17.89		Pass

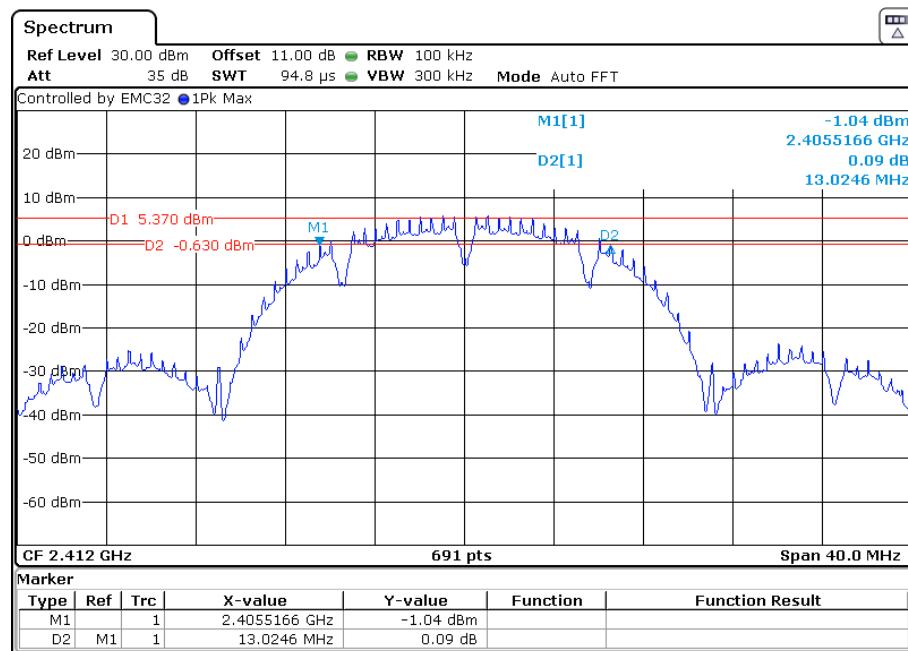
## TEST REPORT

**Result plot as follows:**

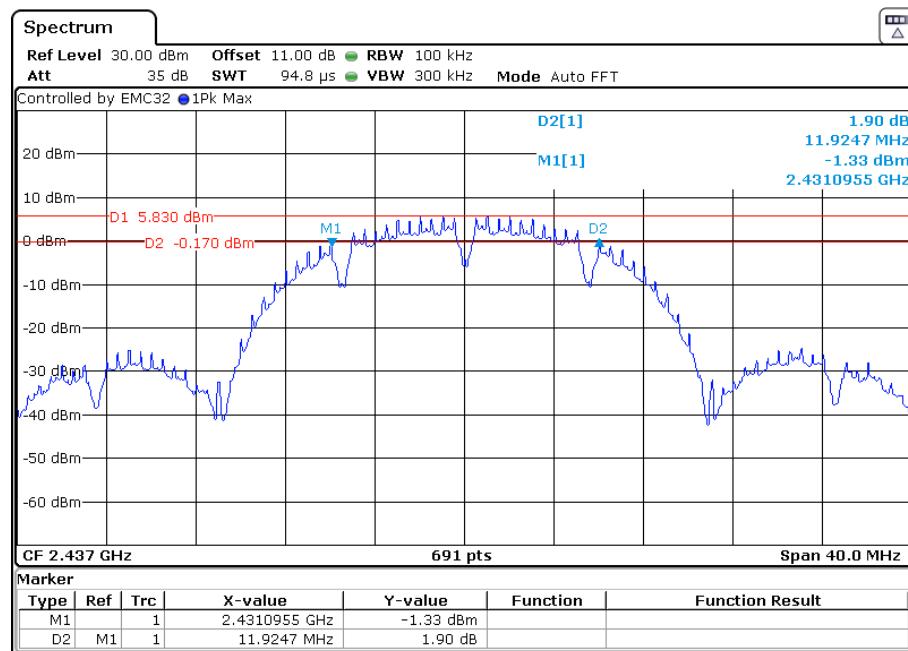
**6dB bandwidth:**

802.11b mode with 1 Mbps data rate

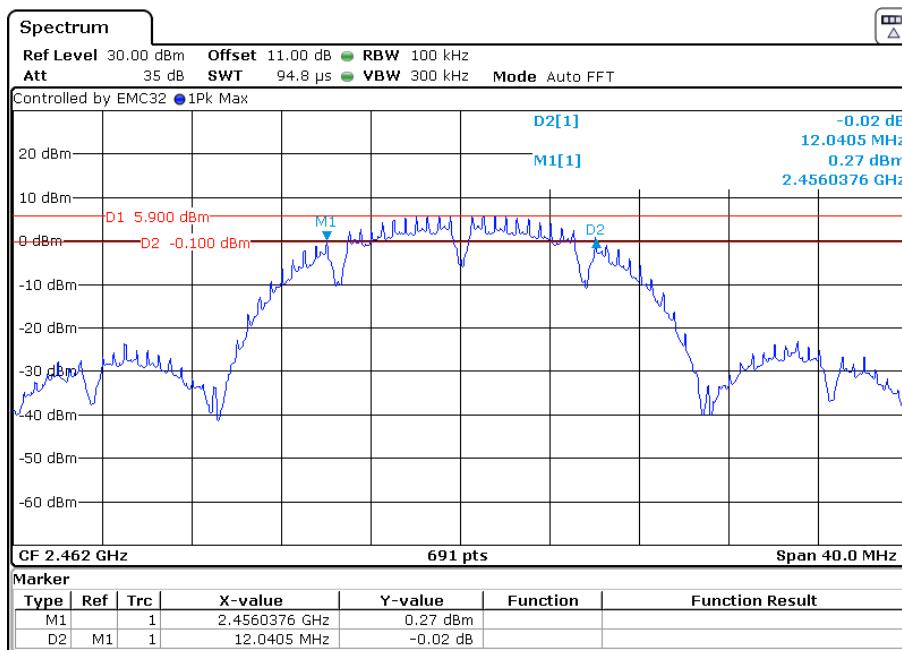
Channel 1: 2.412GHz



Channel 6: 2.437GHz:

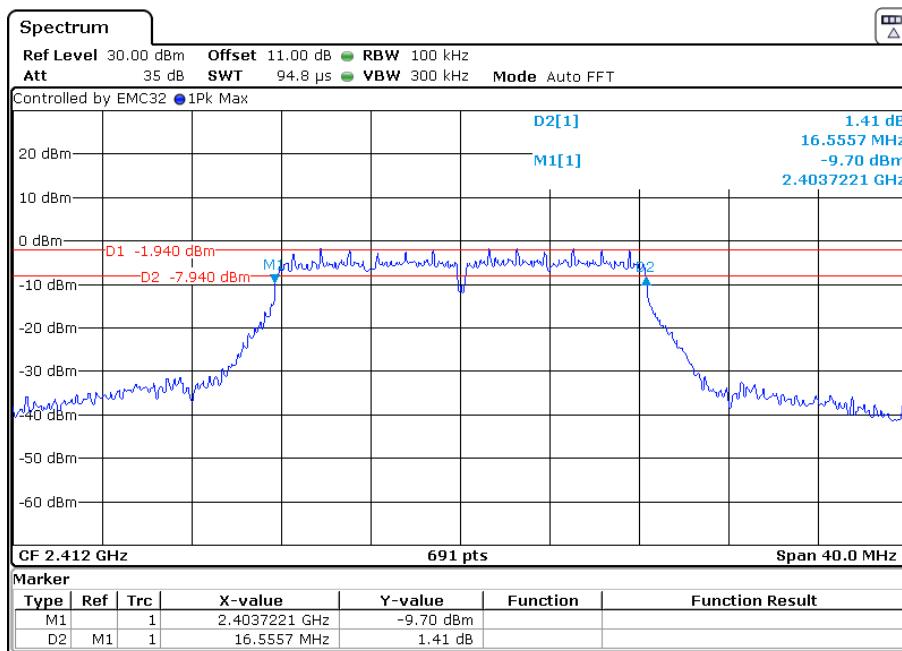


Channel 11: 2.462GHz:

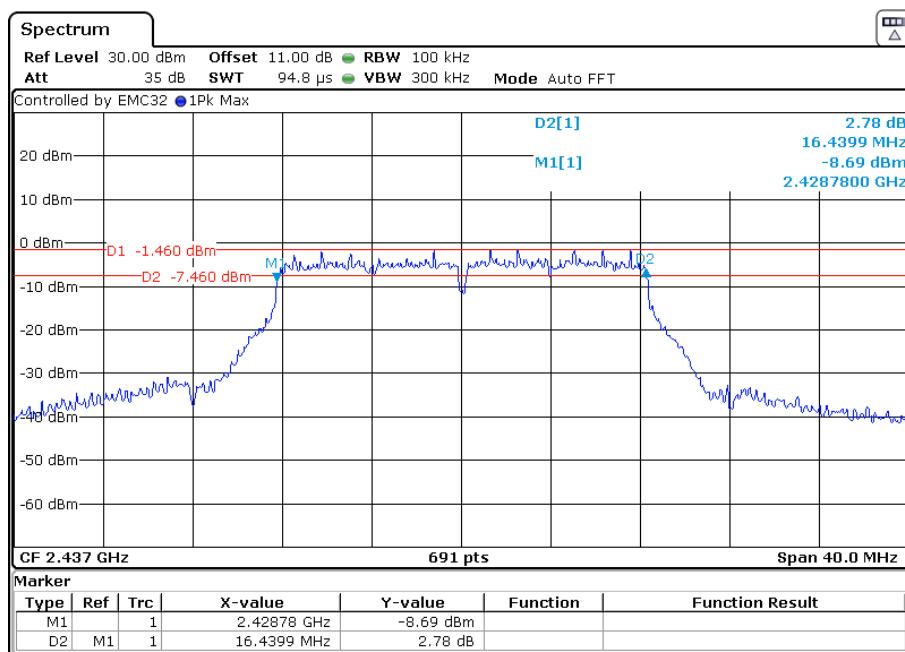
**TEST REPORT**


802.11g mode with 6Mbps data rate

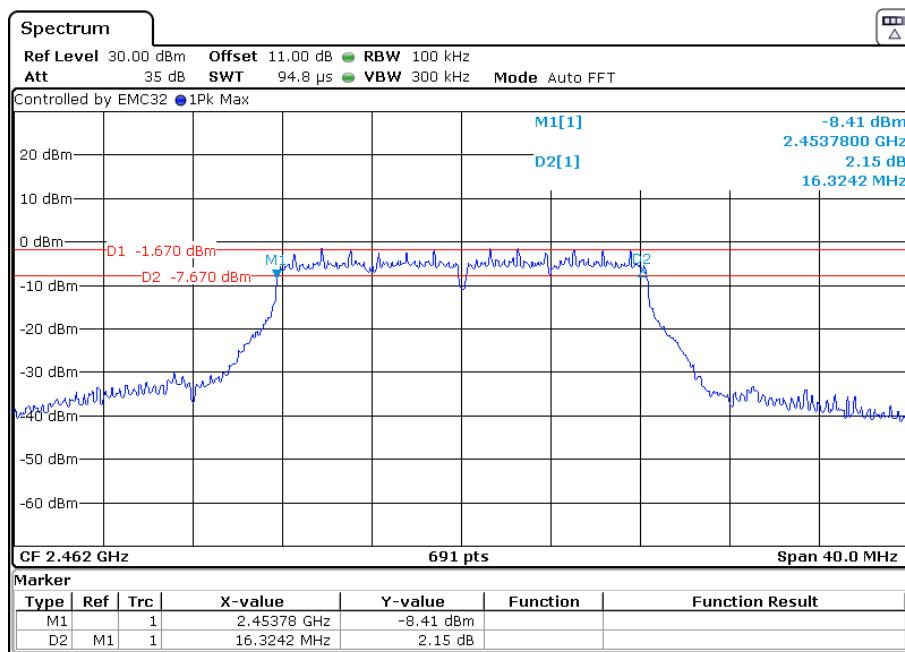
Channel 1: 2.412GHz:



Channel 6: 2.437GHz:

**TEST REPORT**


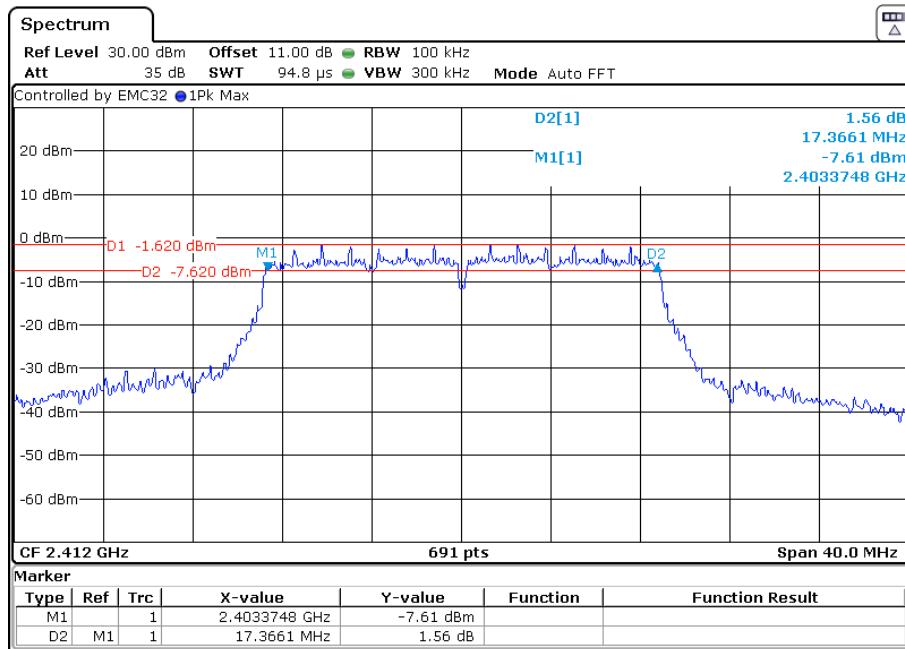
Channel 11: 2.462GHz:



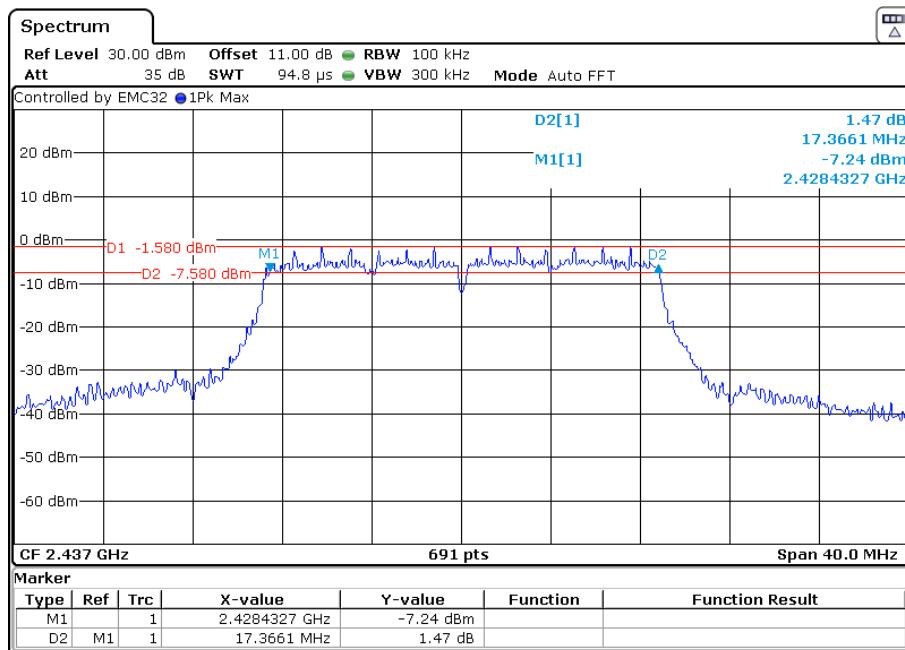
802.11n(HT20) mode with 6.5 Mbps data rate

Channel 1: 2.412GHz:

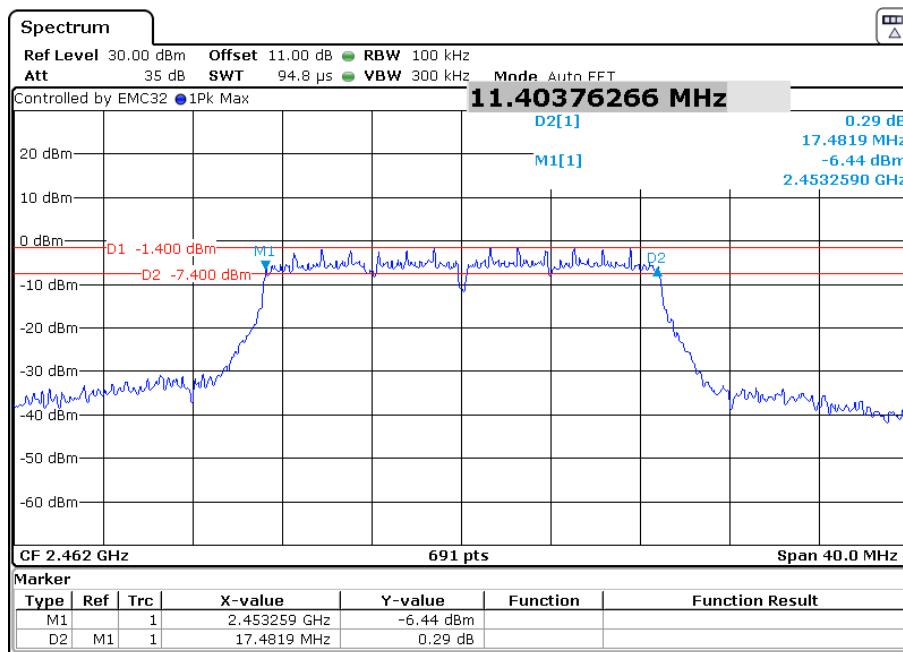
## TEST REPORT



Channel 6: 2.437GHz:

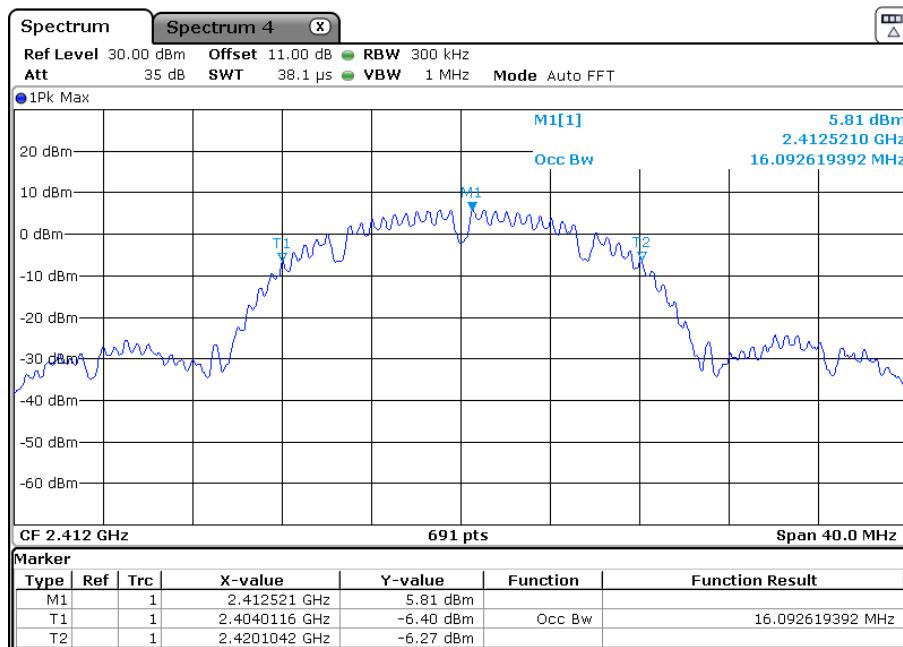


Channel 11: 2.462GHz:

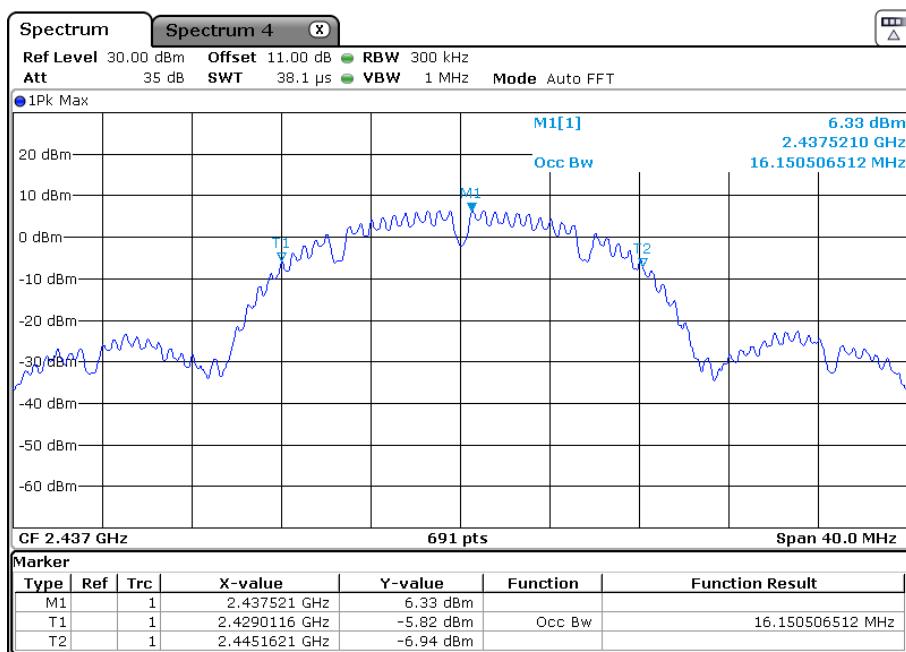
**TEST REPORT**

**Result plot as follows:**
**99% bandwidth:**

802.11b mode with 1 Mbps data rate

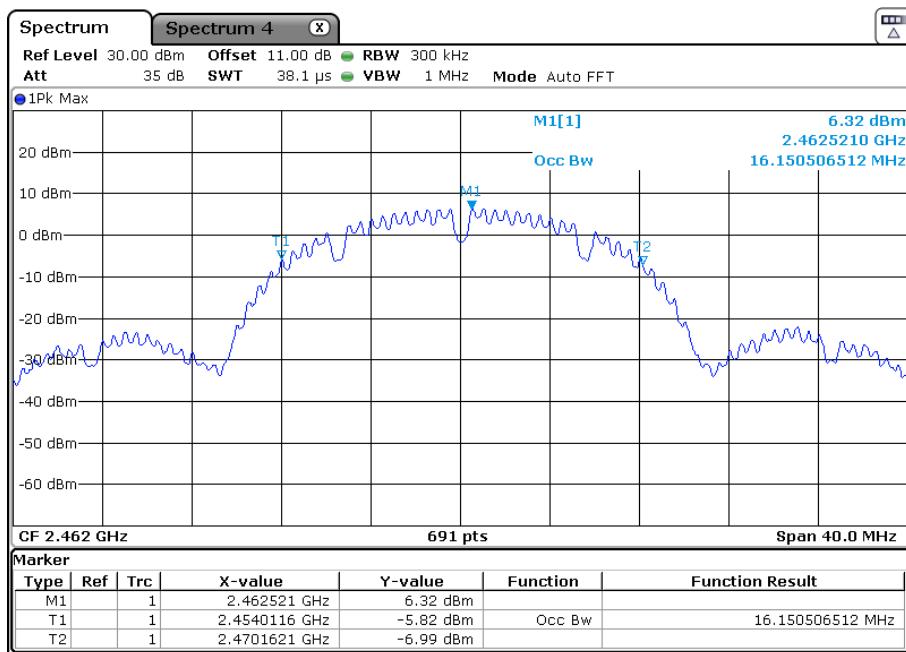
Channel 1: 2.412GHz



Channel 6: 2.437GHz:

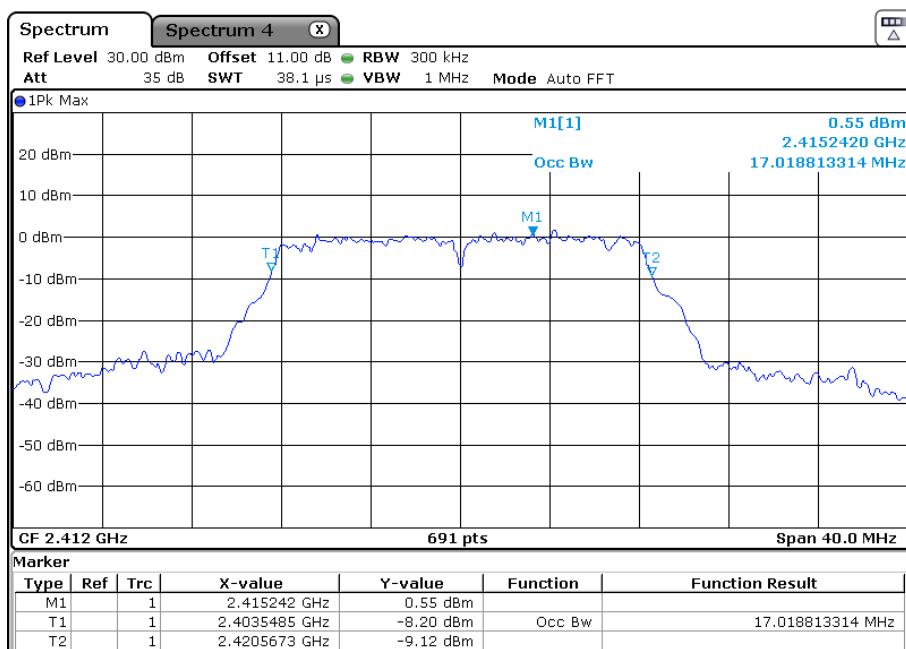
**TEST REPORT**


Channel 11: 2.462GHz:

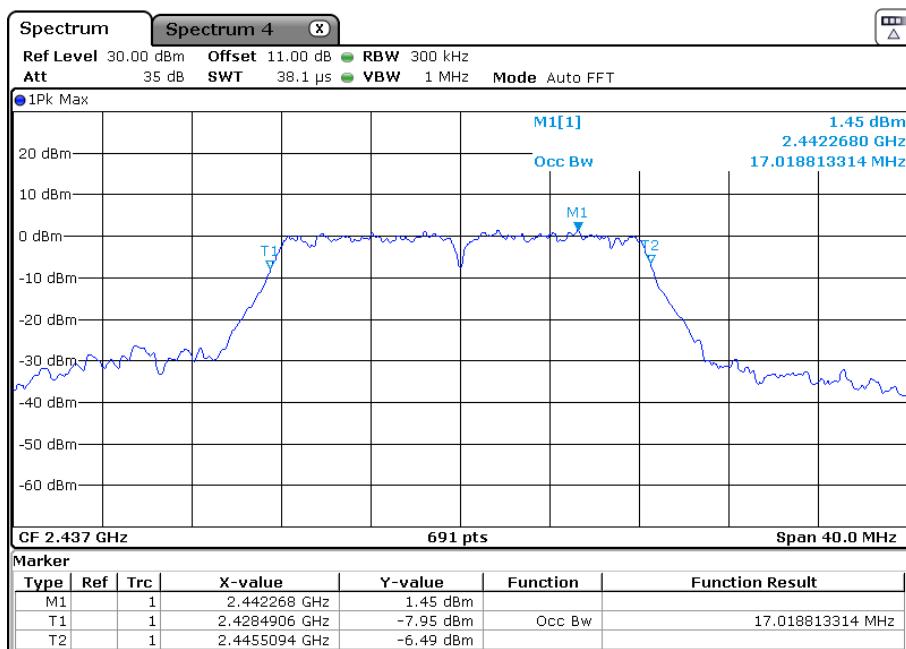


802.11g mode with 6 Mbps data rate

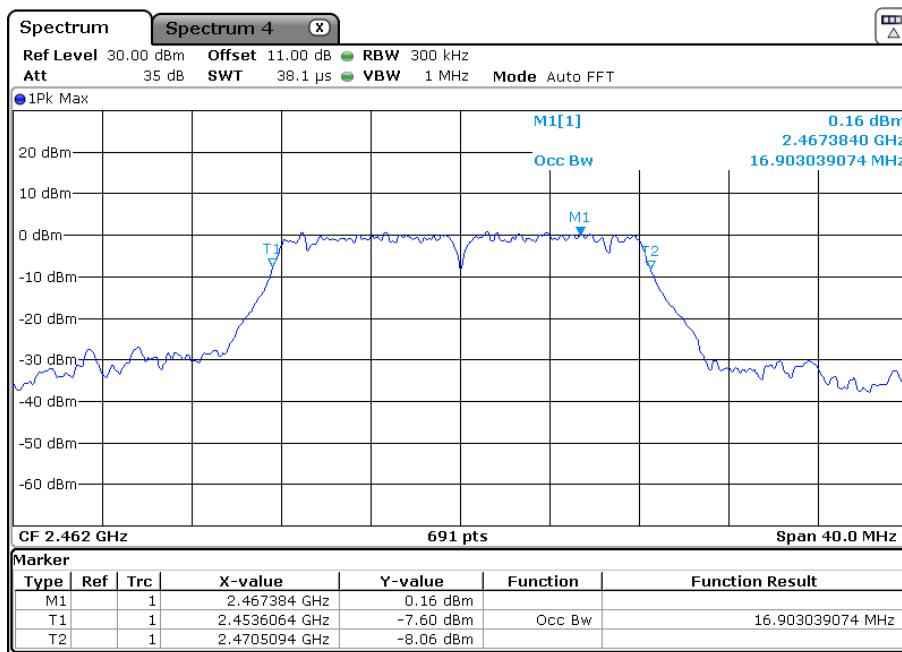
Channel 1: 2.412GHz:

**TEST REPORT**


Channel 6: 2.437GHz:

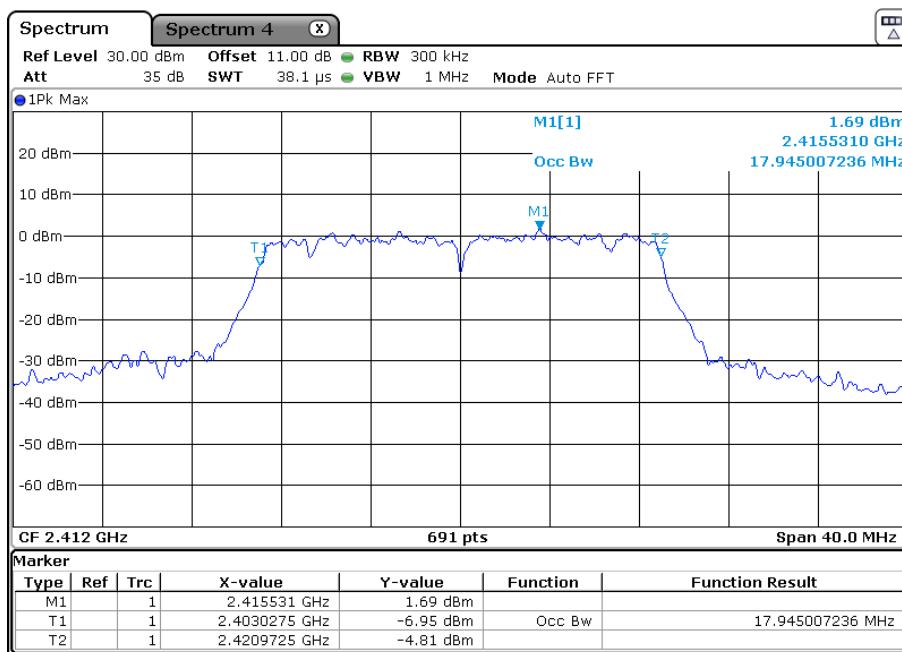


Channel 11: 2.462GHz:

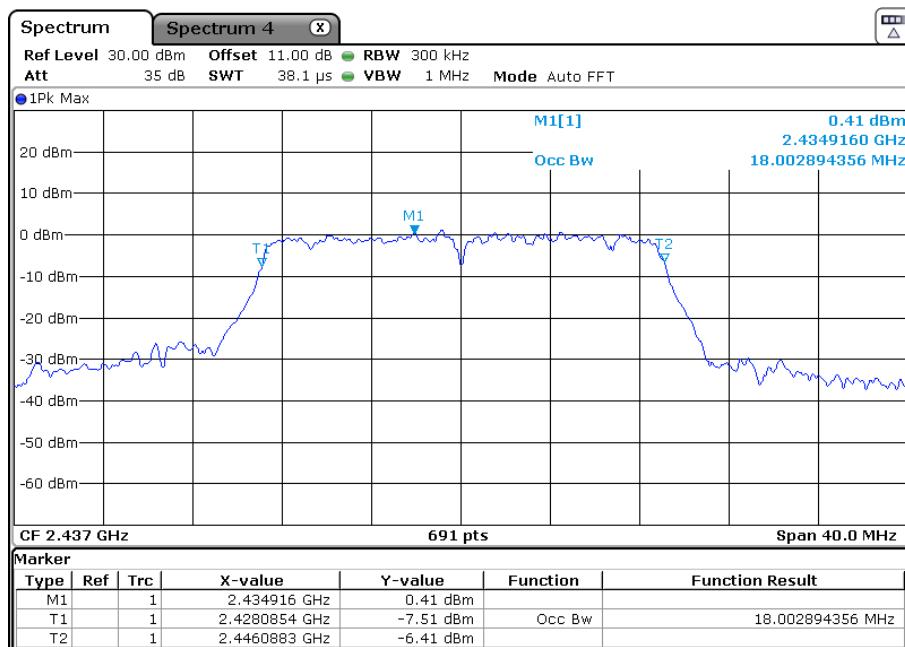
**TEST REPORT**


802.11n(HT20) mode with 6.5 Mbps data rate

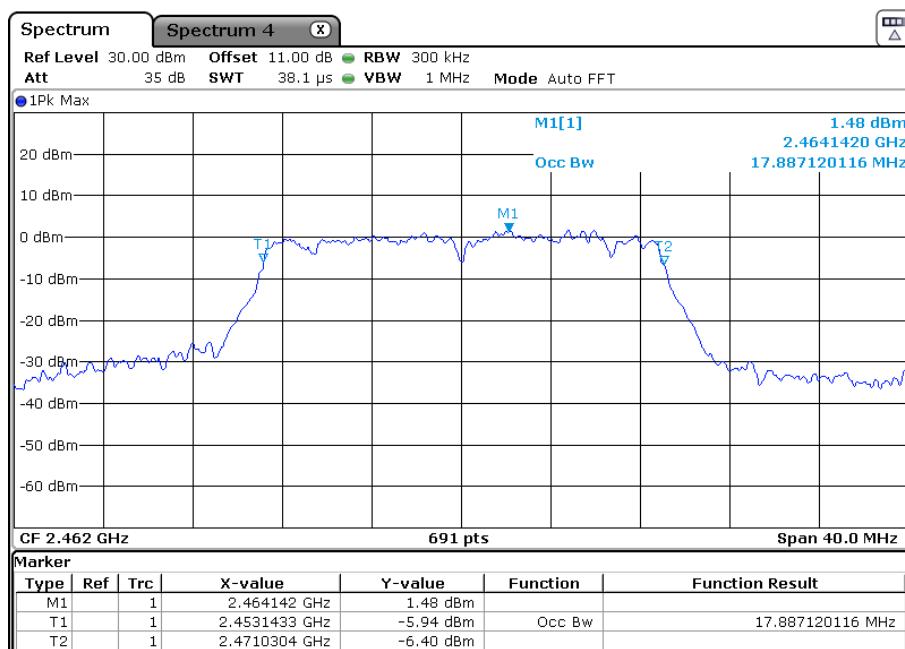
Channel 1: 2.412GHz:



Channel 6: 2.437GHz:

**TEST REPORT**


Channel 11: 2.462GHz:



## TEST REPORT

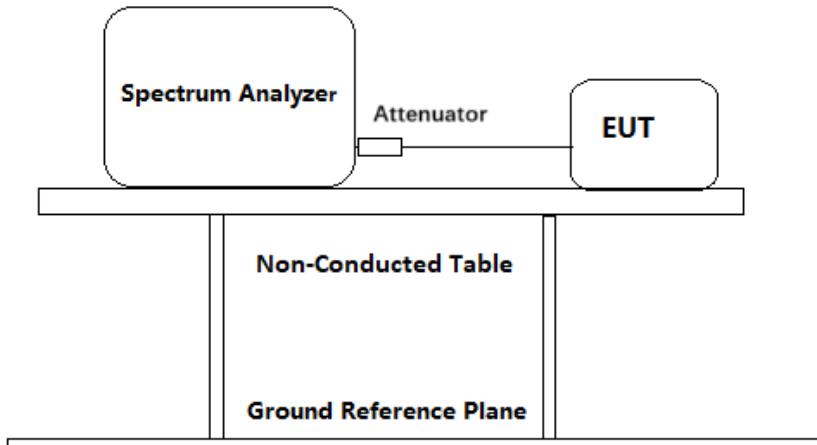
### 4.3 Duty Cycle

Test Requirement: FCC KDB 558074 D01 15.247 Meas Guidance v05r02, Clause 6

Test Method: ANSI C63.10: Clause 11.6

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum.
2. Set the spectrum analyser:
  - a) Set the center frequency of the instrument to the center frequency of the transmission. Set the VBW  $\geq [3 \times \text{RBW}]$
  - b) Set RBW  $\geq \text{OBW}$  if possible; otherwise, set RBW to the largest available value. Span = Zero span
  - c) Set VBW  $\geq \text{RBW}$ . Set detector = peak or average. Trace mode = Free run
3. Report the worst case.

#### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

## TEST REPORT

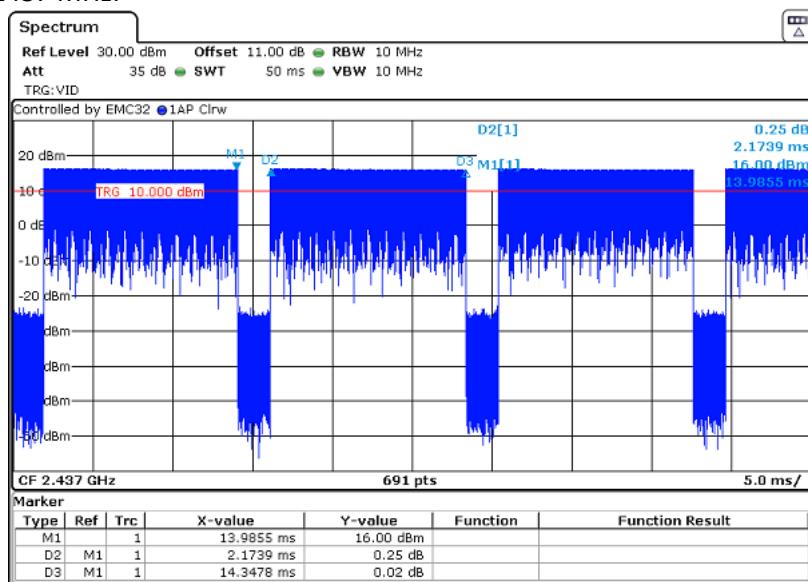
### Test result:

Channel No.	Frequency (MHz)	Mode	On time (ms)	Period (ms)	Duty Cycle (%)
6	2437	802.11b	12.18	14.35	84.88
6	2437	802.11g	2.00	4.06	49.26
6	2437	802.11n (HT20)	1.88	3.91	48.08

Result plot as follows:

802.11b mode

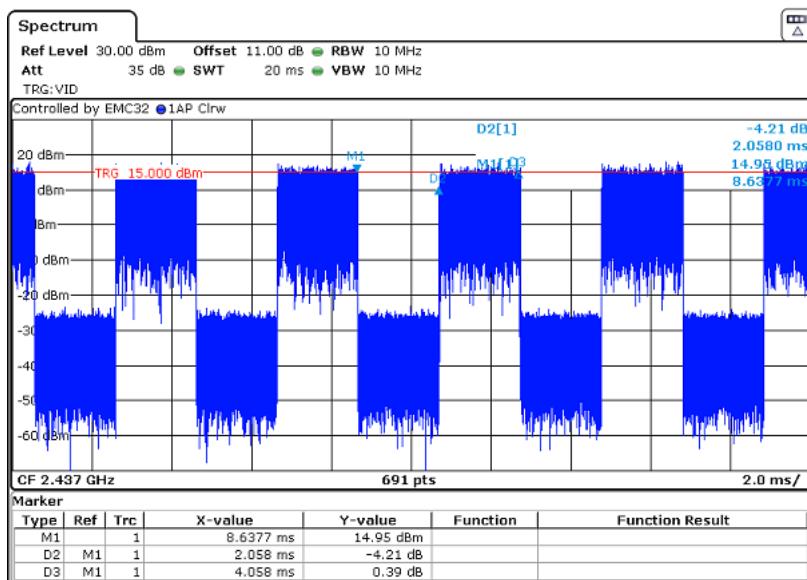
Channel 6: 2437 MHz:



## TEST REPORT

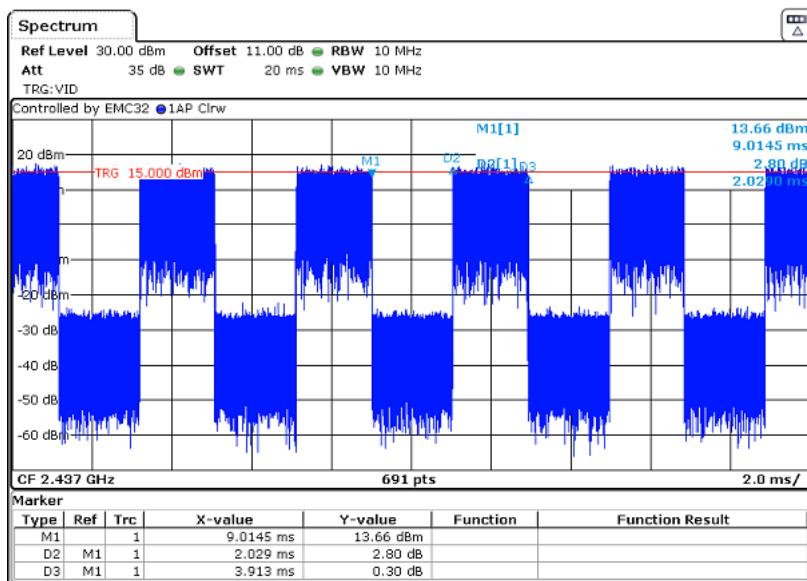
802.11g mode

Channel 6: 2437 MHz:



802.11n(HT 20) mode

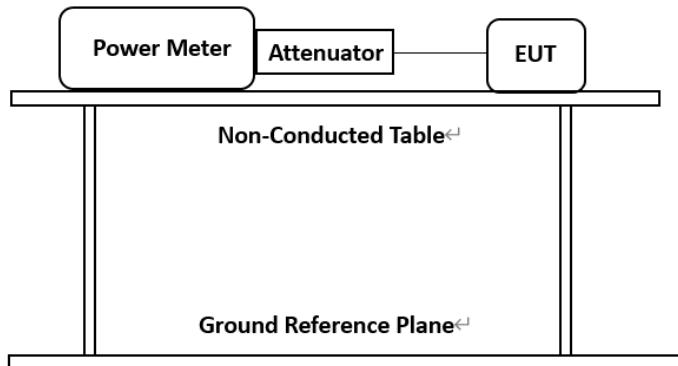
Channel 6: 2437 MHz:



## TEST REPORT

### 4.4 Maximum Average Conducted Output Power and E.I.R.P

Test Requirement:	FCC Part 15 C section 15.247 RSS-247 Clause 5.4(d)
	Section 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.
	Clause 5.4(d): For DTSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W.
	Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b) (1), (b) (2), and (b) (3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Test Method:	ANSI C63.10: Clause 11.9.2.3.1 RSS-Gen clause 6.12
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	



#### Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the power meter.
2. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

## TEST REPORT

3. If the EUT is transmitting at all times, it must be transmitting at its maximum power control level.
4. If the EUT does not transmit continuously, measure the duty cycle and adjust the measurement in dBm by adding  $10\log(1/x)$  where x is the duty cycle of transmitter output signal. This measurement is an average over both the ON and OFF periods of the transmitter.
5. Report the worst case.

### Used Test Equipment List

Power Sensor. Refer to Clause 5 Test Equipment List for details.

#### Test result:

Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Power (dBm)	e.i.r.p (dBm)	Limit		Result
						Measured Channel Power	e.i.r.p	
1	2412	802.11b	1 Mbps	16.84	16.54	1W (30dBm)	4W (36dBm)	Pass
6	2437		1 Mbps	16.66	16.36			Pass
11	2462		1 Mbps	16.96	16.66			Pass
1	2412	802.11g	6 Mbps	11.41	11.11	1W (30dBm)	4W (36dBm)	Pass
6	2437		6 Mbps	11.61	11.31			Pass
11	2462		6 Mbps	11.88	11.58			Pass
1	2412	802.11n (HT20)	6.5 Mbps	11.38	11.08	1W (30dBm)	4W (36dBm)	Pass
6	2437		6.5 Mbps	11.58	11.28			Pass
11	2462		6.5 Mbps	11.67	11.37			Pass

#### Remark:

The measured power in the table has considered the compensation of cable loss, attenuator and duty cycle.

Antenna gain=-0.3 dBi

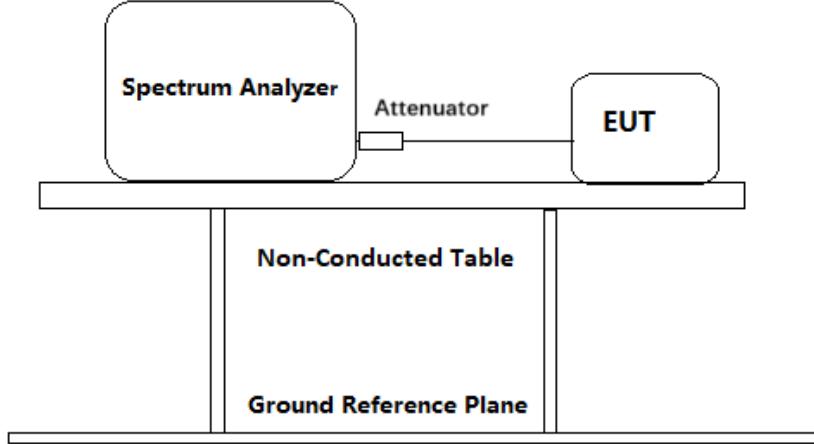
e.i.r.p=output power + antenna gain

## TEST REPORT

### 4.5 Peak Power Spectral Density

Test Requirement:	FCC Part 15 C section 15.247 RSS-247 Clause 5.2(b)
	(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
	5.2(b) The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).
Test Method:	ANSI C63.10: Clause 11.10.2
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

#### Test Configuration:



#### Test Procedure:

1. Remove the antenna from the EUT and then connect a low attention attenuation RF cable (cable loss = 1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Set the spectrum analyzer:
  - a) Set analyzer center frequency to DTS channel center frequency.
  - b) Set the span =  $1.5 \times$  DTS bandwidth.
  - c) Set the RBW to  $3 \text{ kHz} \leqslant \text{RBW} \leqslant 100 \text{ kHz}$ .

## TEST REPORT

- d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
- e) Detector = peak.
- f) Sweep time = auto couple.
- g) Trace mode = max hold.
- h) Allow trace to fully stabilize.
- i) Use the peak marker function to determine the maximum amplitude level within the RBW.
- j) If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

3. Measure the Power Spectral Density of the test frequency with special test status.
4. Repeat until all the test status is investigated.
5. Report the worst case.

### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Test result:

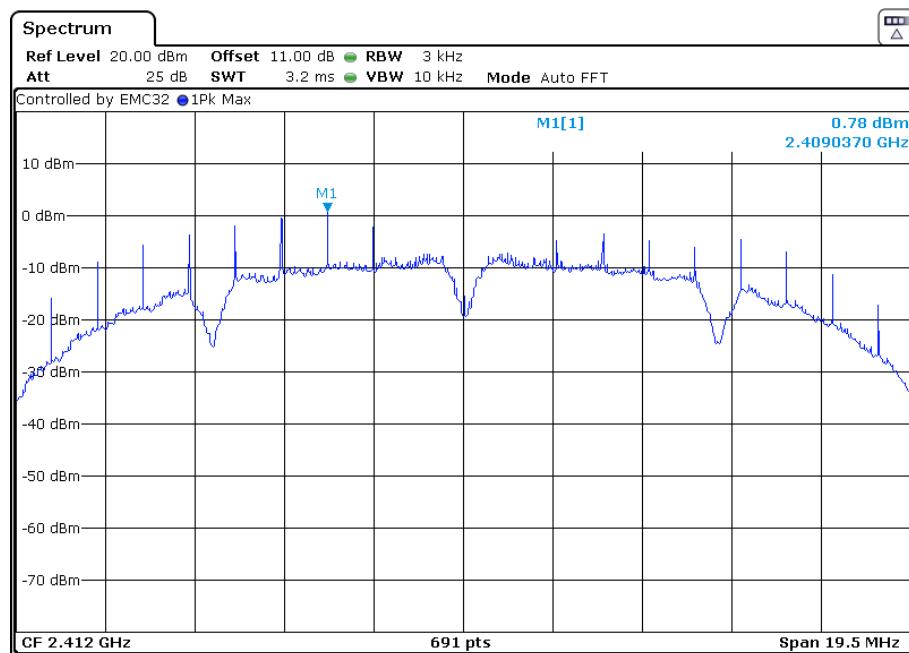
Channel No.	Frequency (MHz)	Mode	Data Rate	Measured Peak Power Spectral Density (dBm/3kHz)	Limit	Result
1	2412	802.11b	1 Mbps	0.78	8dBm/3 KHz	Pass
6	2437		1 Mbps	1.71		Pass
11	2462		1 Mbps	-2.80		Pass
1	2412	802.11g	6 Mbps	-14.18	8dBm/3 KHz	Pass
6	2437		6 Mbps	-14.09		Pass
11	2462		6 Mbps	-14.74		Pass
1	2412	802.11n (HT20)	6.5 Mbps	-15.82	8dBm/3 KHz	Pass
6	2437		6.5 Mbps	-15.42		Pass
11	2462		6.5 Mbps	-15.23		Pass

## TEST REPORT

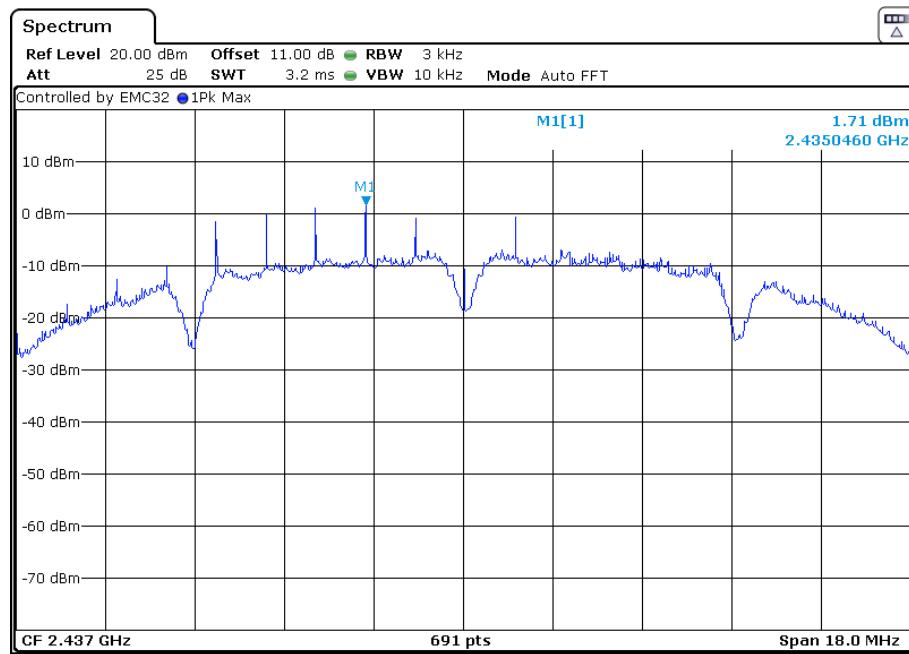
Result plot as follows:

802.11b mode with 1 Mbps data rate

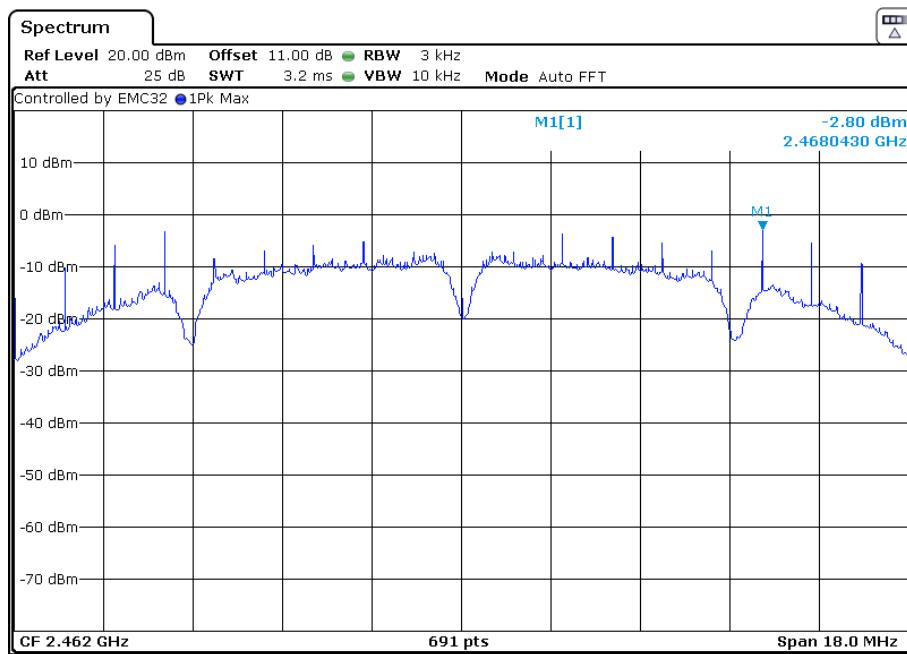
Channel 1: 2.412GHz:



Channel 6: 2.437GHz:

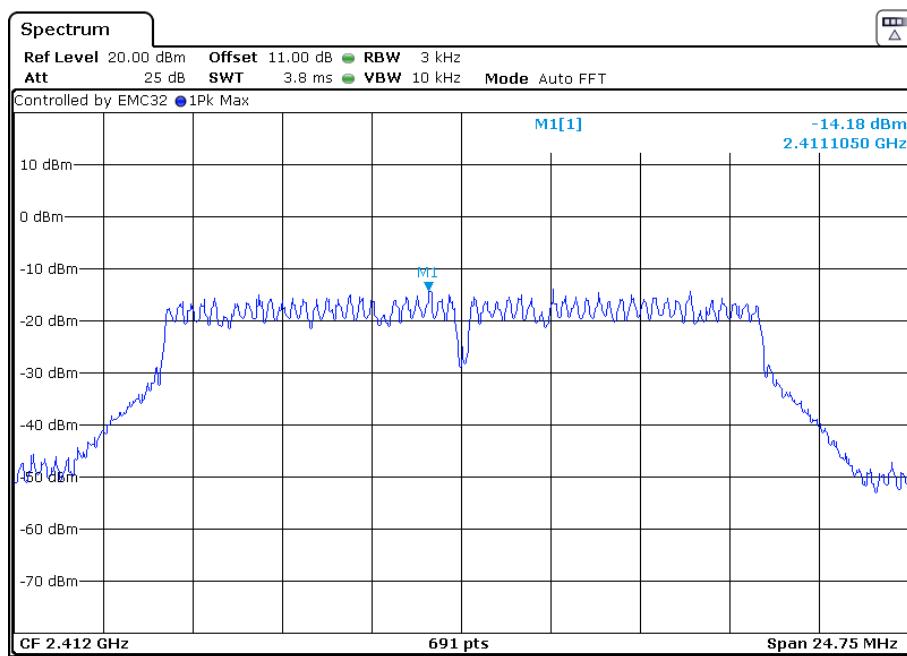


Channel 11: 2.462GHz:

**TEST REPORT**


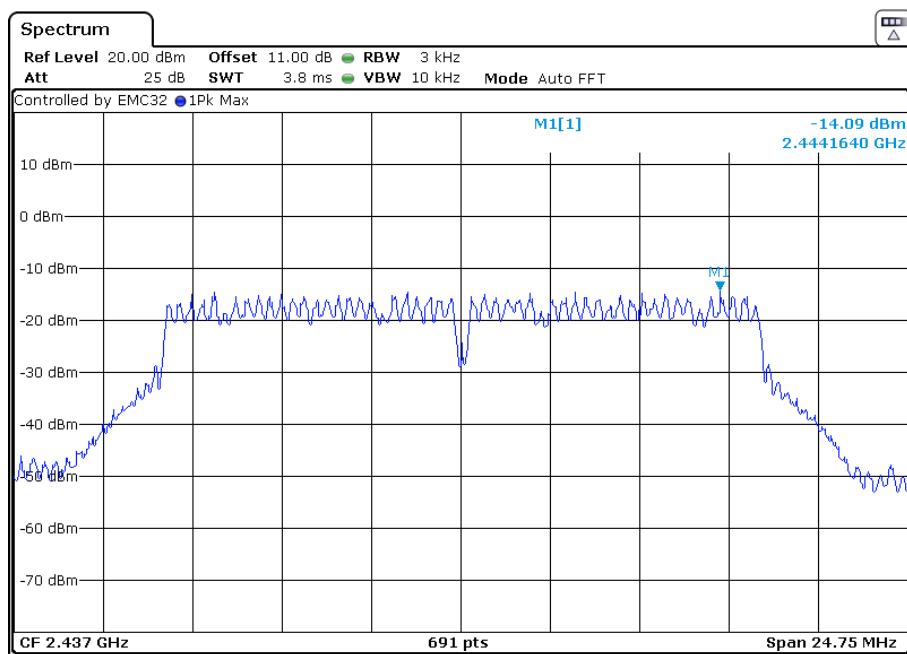
802.11g mode with 6 Mbps data rate

Channel 1: 2.412GHz:

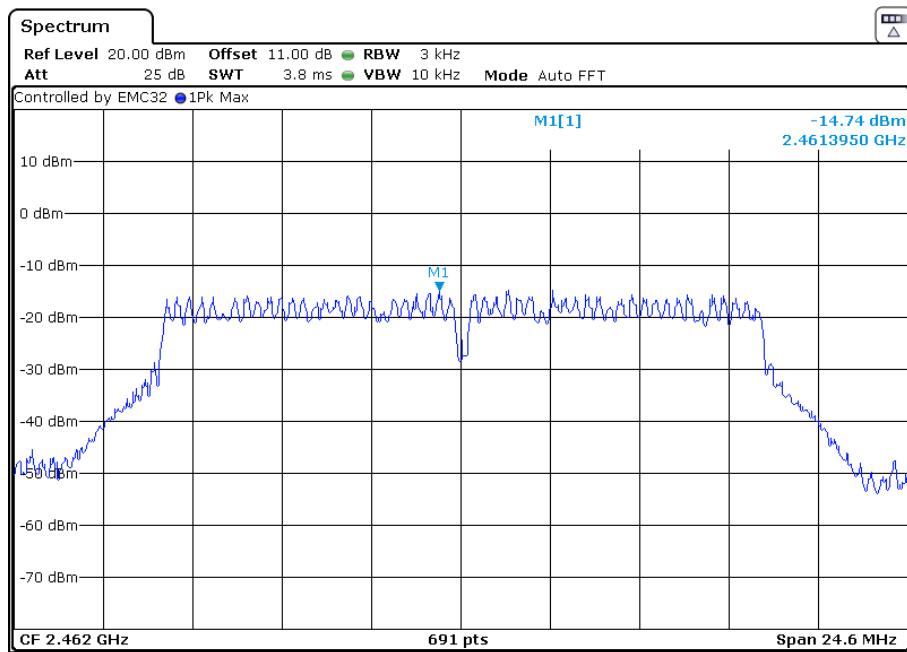


Channel 6: 2.437GHz:

## TEST REPORT



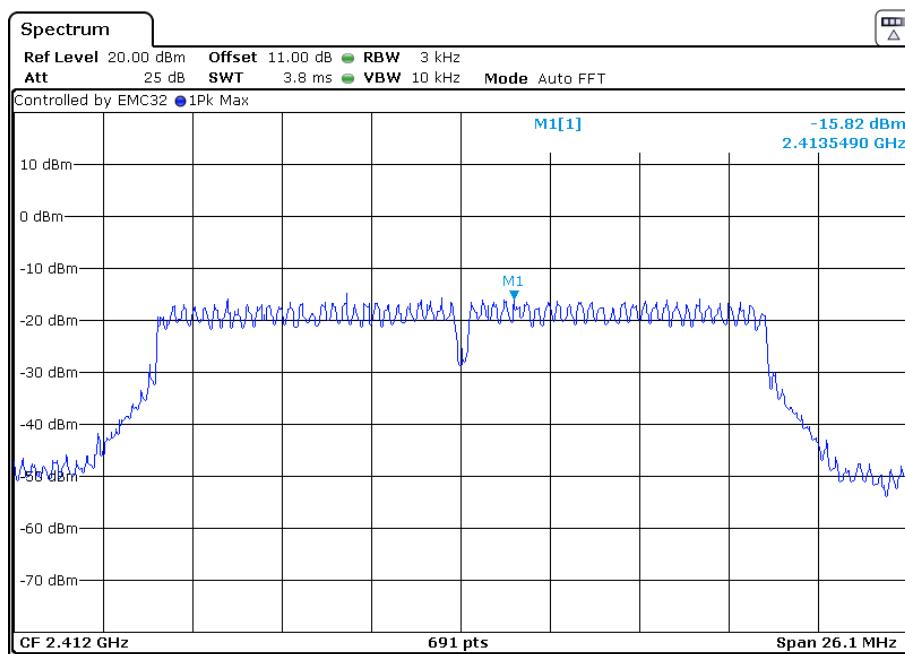
Channel 11: 2.462GHz:



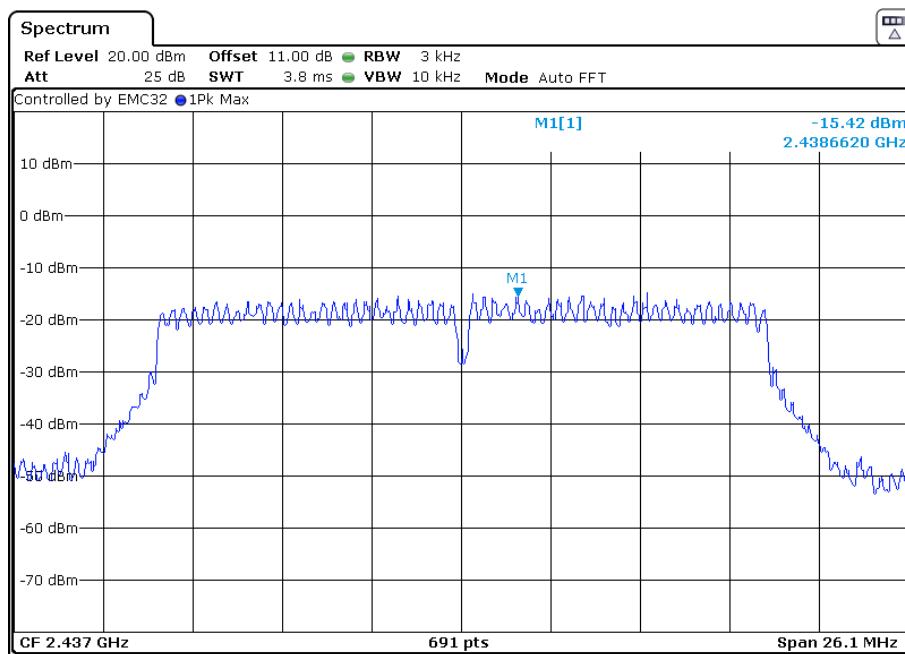
802.11n(HT20) mode with 6.5Mbps data rate

Channel 1: 2.412GHz:

## TEST REPORT

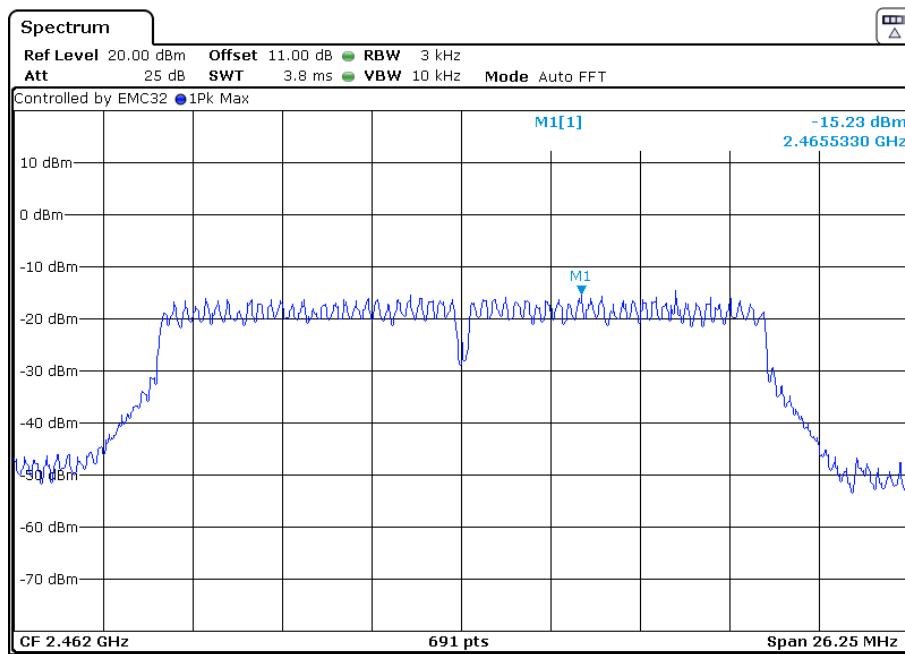


Channel 6: 2.437GHz:



Channel 11: 2.462GHz:

## TEST REPORT



### 4.6 Out of Band Conducted Emissions

Test Requirement: FCC Part 15 C section 15.247

RSS-247 Clause 5.5

(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.

Clause 5.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted

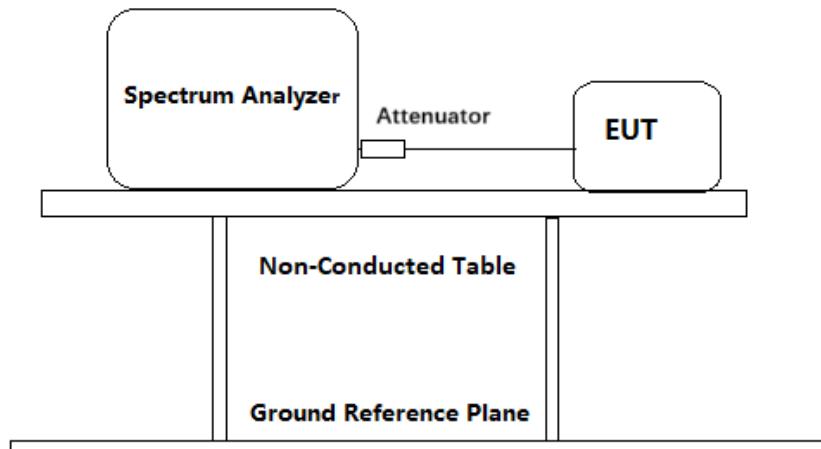
# TEST REPORT

power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Test Method: ANSI C63.10: Clause 11.11  
RSS-Gen clause 6.13

Test Status: Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.

## Test Configuration:



### Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer or power meter.
2. Establish a reference level by using the following procedure:
  - a) Set instrument center frequency to DTS channel center frequency.
  - b) Set the span to  $\geq 1.5 \times$  DTS bandwidth.
  - c) Set the RBW = 100 kHz.
  - d) Set the VBW  $\geq [3 \times \text{RBW}]$ .
  - e) Detector = peak.
  - f) Sweep time = auto couple.
  - g) Trace mode = max hold.
  - h) Allow trace to fully stabilize.
  - i) Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level
3. Emission level measurement
  - a) Set the center frequency and span to encompass frequency range to be measured.
  - b) Set the RBW = 100 kHz.
  - c) Set the VBW  $\geq [3 \times \text{RBW}]$ .

## TEST REPORT

- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

4. Measure the Conducted unwanted Emissions of the test frequency with special test status.
5. Repeat until all the test status is investigated.
6. Report the worst case.

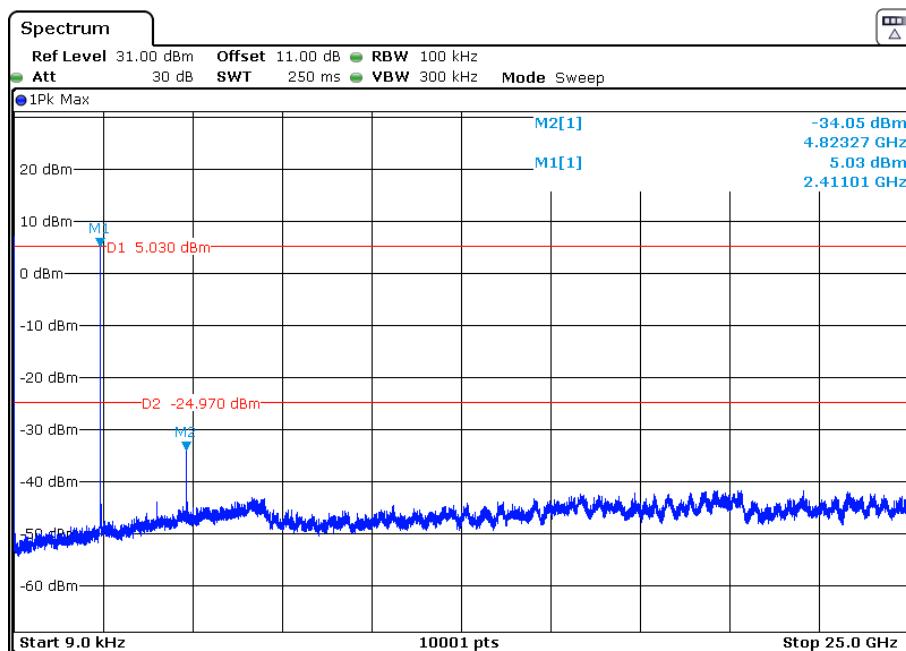
### Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

Result plot as follows:

802.11b mode with 1 Mbps data rate

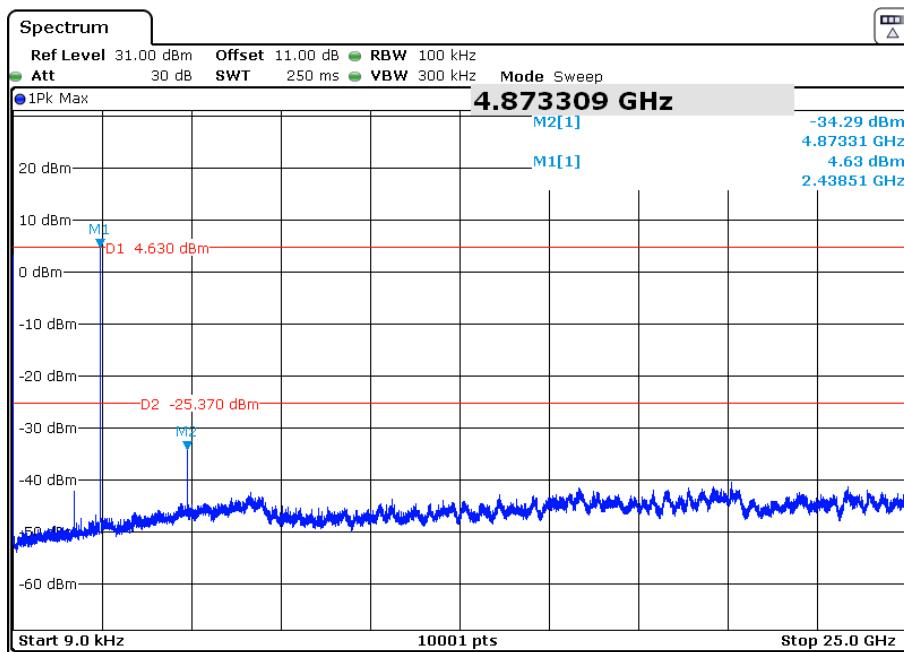
Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

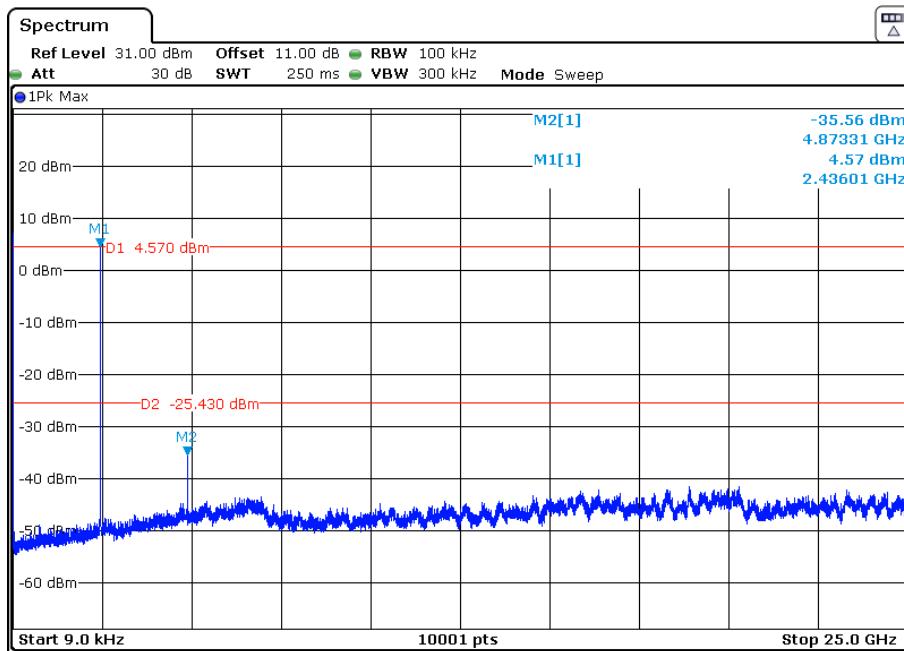
Channel 6: 2.437GHz:

## TEST REPORT



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11:2.462 GHz:

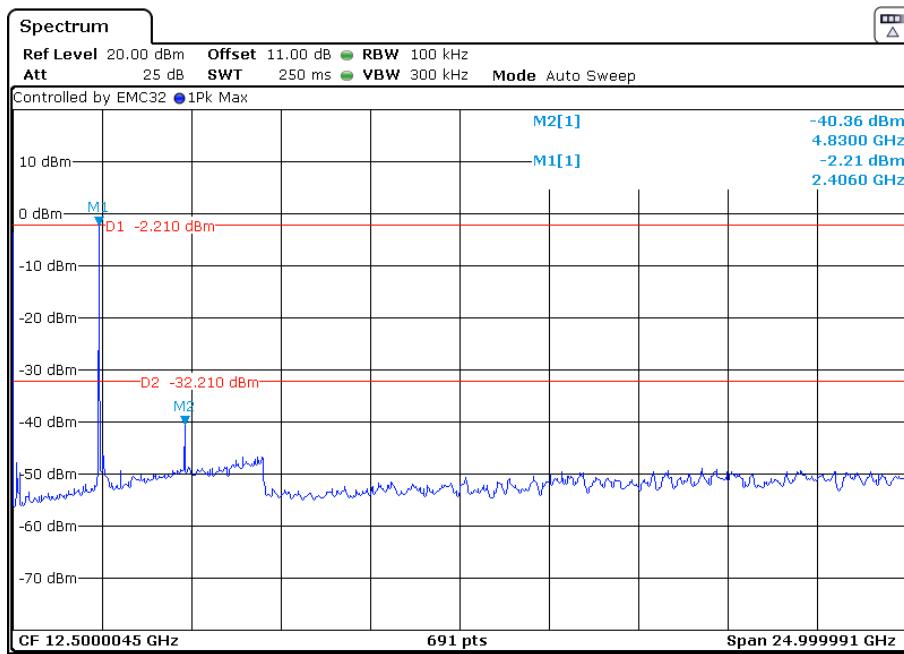


In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

802.11g mode with 6 Mbps data rate

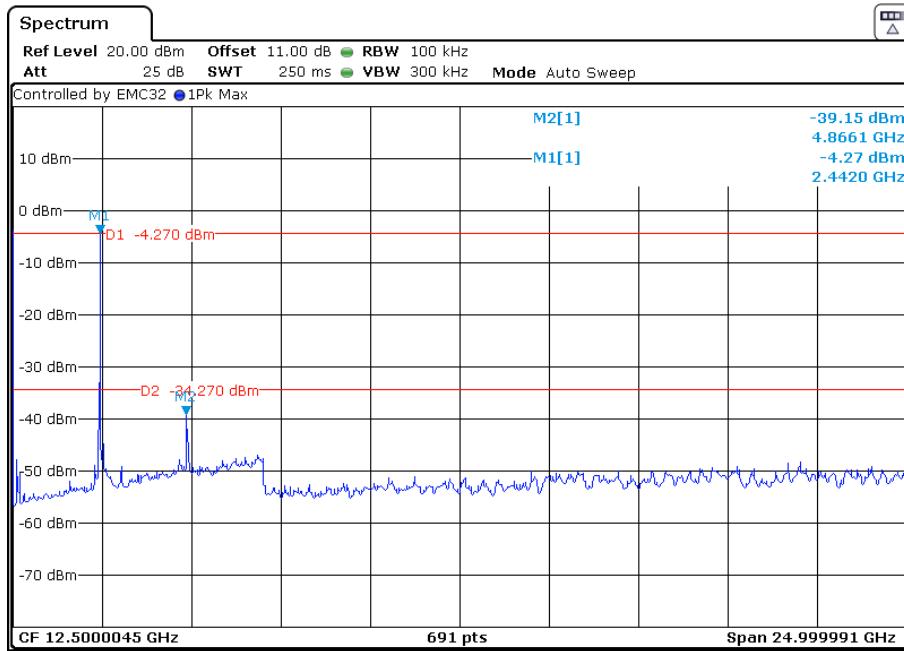
## TEST REPORT

Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

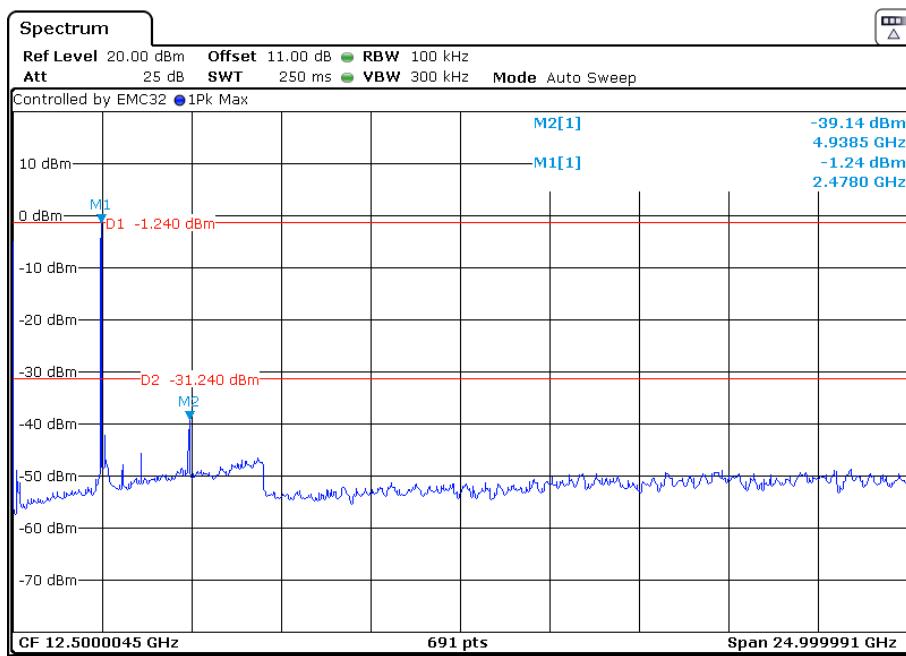
Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

## TEST REPORT

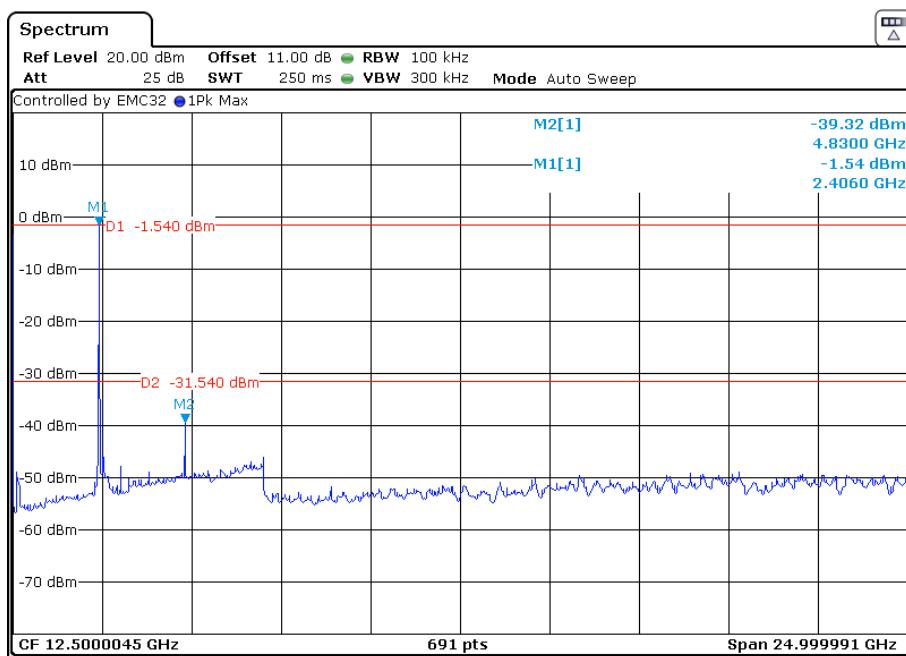
Channel 11: 2.462 GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

802.11n(HT20) mode with 6.5 Mbps data rate

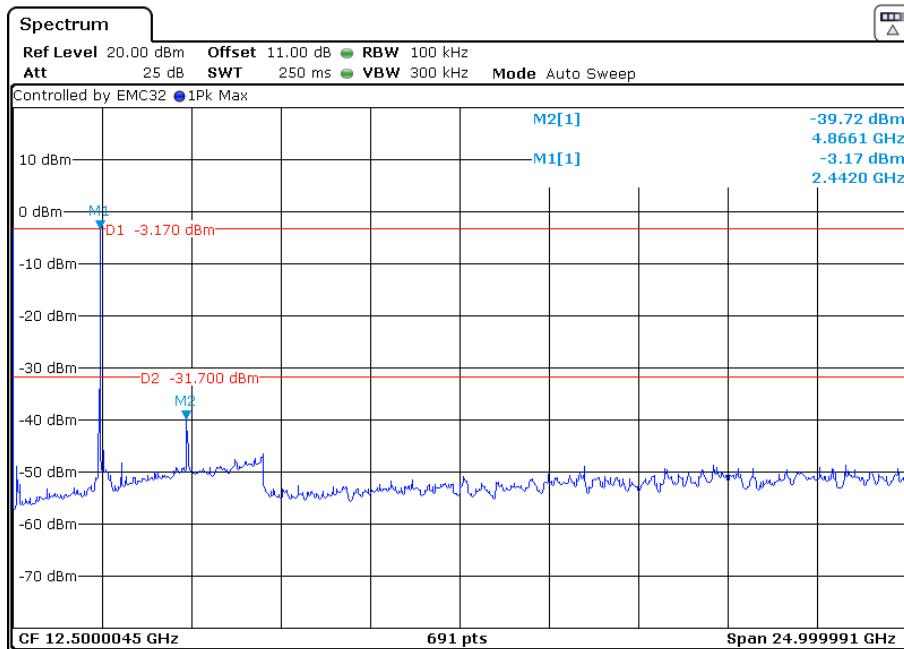
Channel 1: 2.412GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

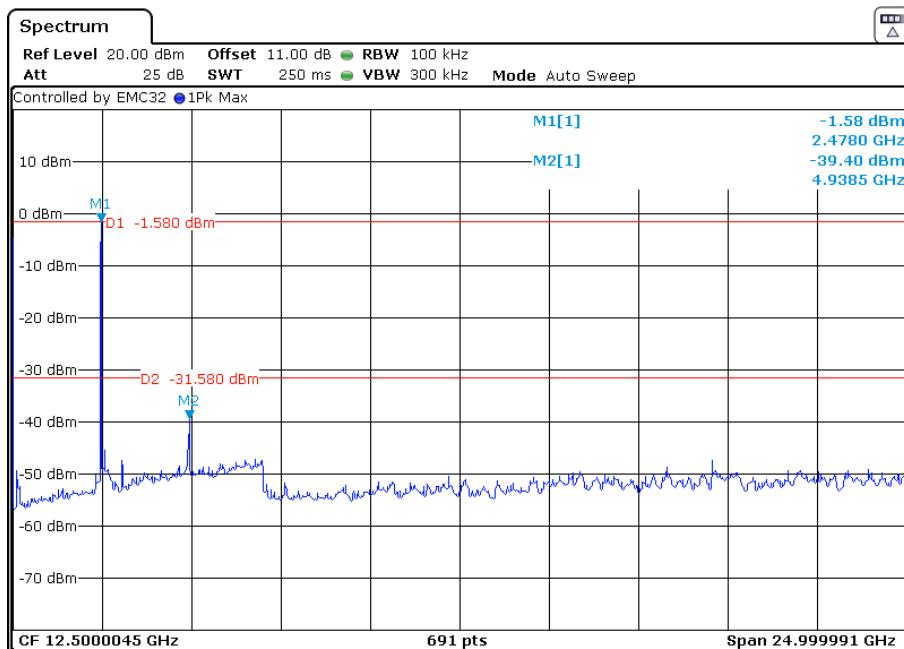
## TEST REPORT

Channel 6: 2.437GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

Channel 11: 2.462 GHz:



In any 100kHz bandwidth, the Conducted Spurious Emissions from 9 kHz to 25 GHz were greater than 30dB below the peak emission within the band that contains the highest level of the desired power.

## TEST REPORT

### 4.7 Radiated Emissions

Test Requirement:

FCC Part 15 C section 15.247

RSS-247 Clause 3.3 & 5.5

section 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)).

Clause 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Clause 3.3 Equipment certified under this standard is required to comply with the provisions in RSS-Gen with respect to emissions falling within restricted frequency bands. These restricted frequency bands are listed in RSS-Gen.

Test Method:

ANSI C63.10: Clause 11.11, 11.12.1, 6.4, 6.5 and 6.6

RSS-Gen clause 6.13 and 8.10

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity)

## TEST REPORT

architecture). Following channel(s) was (were) selected for the final test as listed below.

Test site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Limit: 40.0 dB $\mu$ V/m between 30MHz & 88MHz;  
 43.5 dB $\mu$ V/m between 88MHz & 216MHz;  
 46.0 dB $\mu$ V/m between 216MHz & 960MHz;  
 54.0 dB $\mu$ V/m above 960MHz.

Detector: For Peak and Quasi-Peak value:

RBW =  
 1 MHz for  $f \geq 1$  GHz,  
 200 Hz for 9 kHz to 150 kHz  
 9 kHz for 150 kHz to 30 MHz  
 120 kHz for 30 MHz to 1GHz  
 VBW  $\geq$  RBW  
 Sweep = auto  
 Detector function = peak for  $f \geq 1$  GHz, QP for  $f < 1$  GHz  
 Trace = max hold

For AV value:

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz  
 VBW=10 Hz  
 Sweep = auto  
 Trace = max hold

Field Strength Calculation:

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below:

FS = RA + AF + CF - AG + PD + AV

FS = RA + Correct Factor + AV

FS = Field Strength in dB $\mu$ V/m

RA = Receiver Amplitude (including preamplifier) in dB $\mu$ V

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

Correct Factor = AF + CF - AG + PD

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD + AV

Assume a receiver reading of 62.0 dB $\mu$ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB is added. The

**TEST REPORT**

amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dB $\mu$ V/m.

RA = 62.0 dB $\mu$ V

AF = 7.4 dB/m

CF = 1.6 dB

AG = 29.0 dB

PD = 0 dB

AV = -10 dB

Correct Factor =  $7.4 + 1.6 - 29.0 + 0 = -20$  dB

FS =  $62 + (-20) + (-10) = 32$  dB $\mu$ V/m

**Section 15.205 Restricted bands of operation.**

(a) Except as shown in paragraph (d) of this section. Only spurious emissions are permitted in any of the frequency bands listed below:

**FCC Part 15 C section 15.247**

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
10.495 - 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	17200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2200 - 2300	15.35 - 16.2
8.362 - 8.366	156.52475 -	2310 - 2390	17.7 - 21.4
8.37625 - 8.38675	156.52525	2483.5 - 2500	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	2655 - 2900	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3260 - 3267	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3332 - 3339	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3345.8 - 3358	
13.36 - 13.41	322 - 335.4	3600 - 4400	

**TEST REPORT**

RSS-247 Clause 5.5

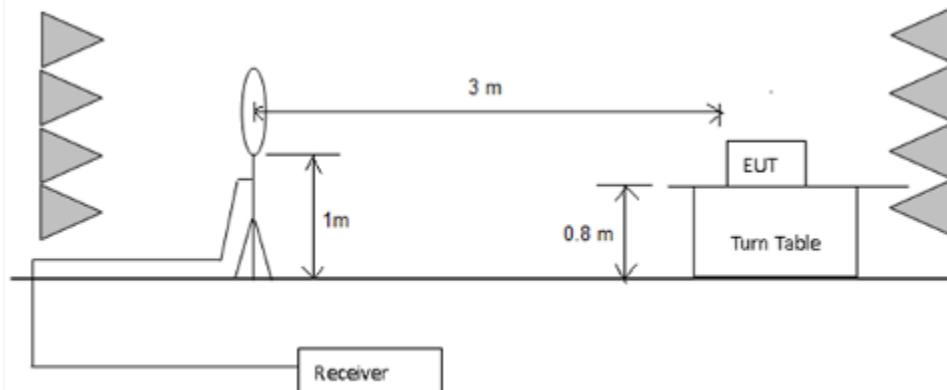
MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 - 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
6.215 - 6.218	608 - 614	23.6 - 24.0
6.26775 - 6.26825	960 - 1427	31.2 - 31.8
6.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1645.5 - 1646.5	Above 38.6
8.362 - 8.366	1660 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3260 - 3267	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 - 138	--	

\* Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

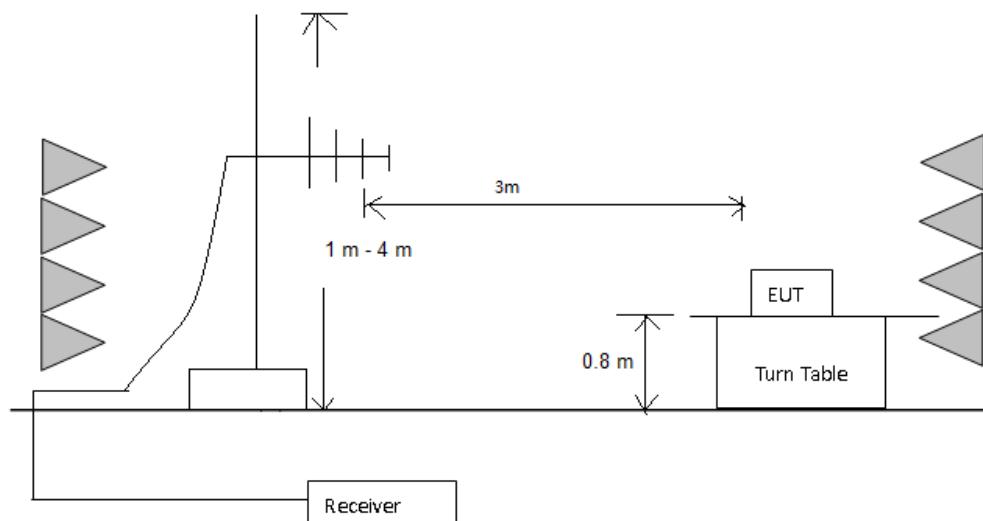
## TEST REPORT

Test Configuration:

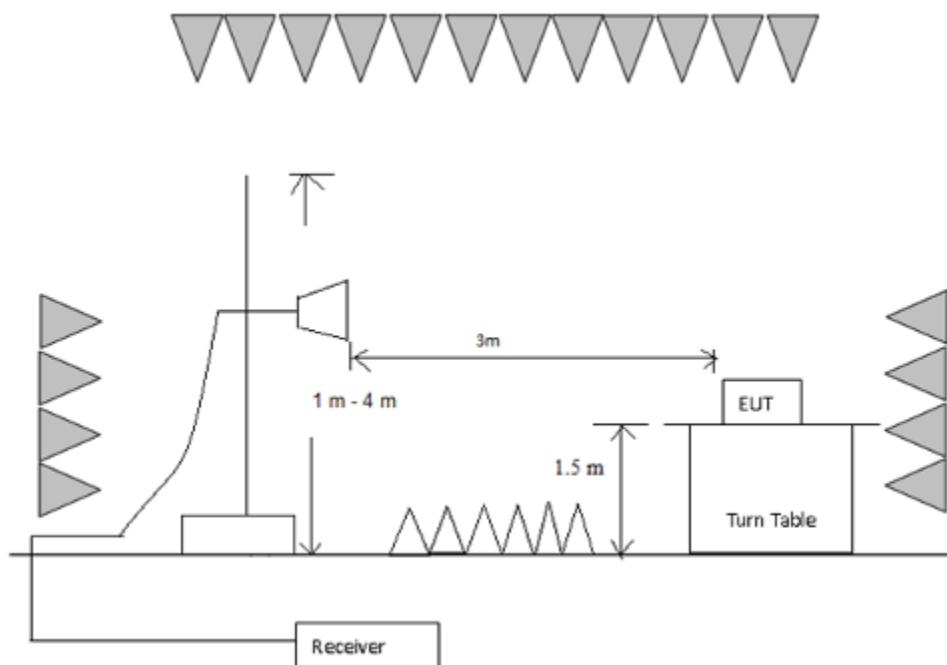
- 1) 9 kHz to 30 MHz emissions:



- 2) 30 MHz to 1 GHz emissions:



- 3) 1 GHz to 40 GHz emissions:

**TEST REPORT**

**Test Procedure:**
**1) 9 kHz to 30 MHz emissions:**

For testing performed with the loop antenna. The lowest of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

**2) 30 MHz to 1 GHz emissions:**

For testing performed with the bi-log type antenna. The measurement was performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

**3) 1 GHz to 25 GHz emissions:**

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

4) The receiver was scanned from 9 kHz to 25 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

**Used Test Equipment List:**

## TEST REPORT

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Double-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

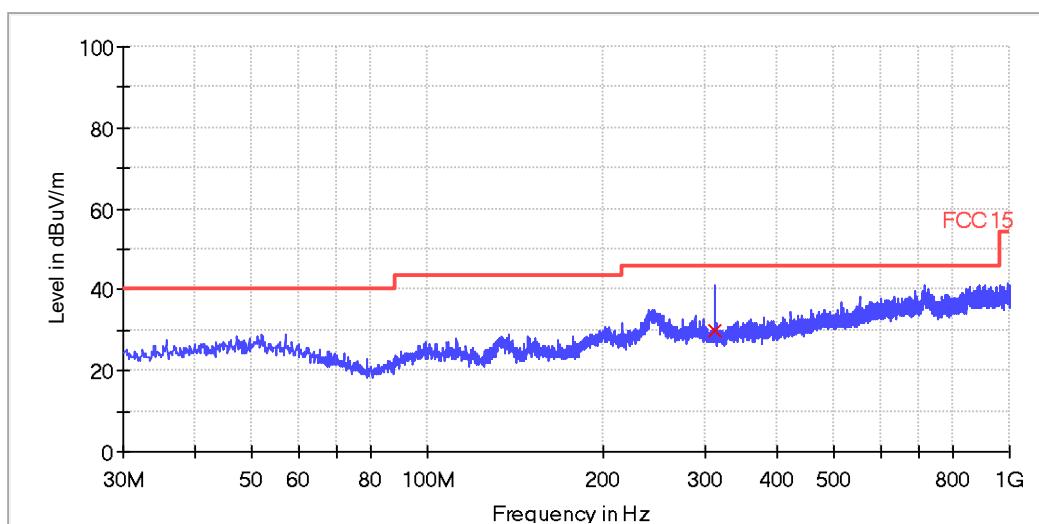
### 9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

### 30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Pre-scan all modes, worst case as below

802.11b mode with 1Mbps data rate Test at Channel 1 (2.412 GHz) in transmitting status  
 Horizontal



### QP

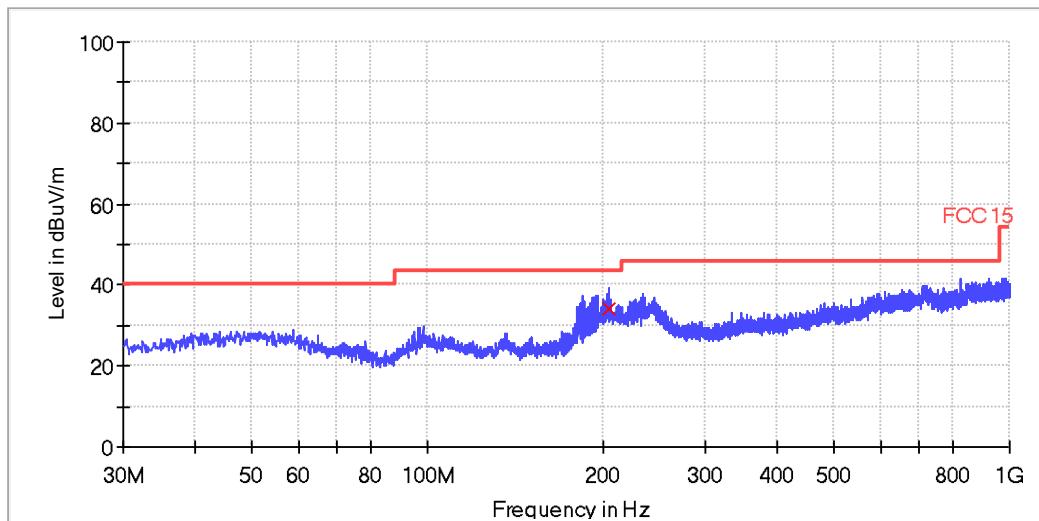
Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
311.960000	30.0	120.000	H	22.1	16.0	46.0

### Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dB $\mu$ V/m) = Corr. (dB) + Read Level (dB $\mu$ V)
3. Margin (dB) = Limit QPK (dB $\mu$ V/m) - Quasi Peak (dB $\mu$ V/m)

**TEST REPORT**

Vertical:


**QP**

Frequency (MHz)	Quasi Peak (dB $\mu$ V/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dB $\mu$ V/m)
205.000000	34.3	120.000	V	19.6	9.2	43.5

Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dB $\mu$ V/m) = Corr. (dB) + Read Level (dB $\mu$ V)
3. Margin (dB) = Limit QPK (dB $\mu$ V/m) – Quasi Peak (dB $\mu$ V/m)

1~25 GHz Radiated Emissions.

802.11b mode with 1Mbps data rate as below

Test at Channel 1 (2.412 GHz) in transmitting status

PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
5476.0	42.3	0.6	42.9	74	H
9668.5	43.7	7.0	50.7	74	H
3638.5	43.2	-3.1	40.1	74	V
7244.5	40.8	3.7	44.5	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

**TEST REPORT**

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

AV Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
5476.0	-	0.6	-	54	H
9668.5	-	7.0	-	54	H
3638.5	-	-3.1	-	54	V
7244.5	-	3.7	-	54	V

Test at Channel 6 (2.437 GHz) in transmitting status

PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2215.0	52.5	-8.3	44.2	74	H
6272.5	41.6	1.9	43.5	74	H
1327.0	54.8	-12.6	42.2	74	V
3020.5	57.3	-5.3	52.0	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

AV Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2215.0	-	-8.3	-	54	H
6272.5	-	1.9	-	54	H
1327.0	-	-12.6	-	54	V
3020.5	-	-5.3	-	54	V

Test at Channel 11 (2.462 GHz) in transmitting status

PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2140.0	49.5	-8.6	40.9	74	H
5536.0	41.4	0.7	42.1	74	H

**TEST REPORT**

2218.0	49.4	-8.3	41.1	74	V
7042.0	41.5	3.5	45.0	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

**AV Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2140.0	-	-8.6	-	54	H
5536.0	-	0.7	-	54	H
2218.0	-	-8.3	-	54	V
7042.0	-	3.5	-	54	V

802.11g mode with 6Mbps data rate as below

Test at Channel 1 (2.412 GHz) in transmitting status

**PK Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3380.5	42.7	-3.9	38.8	74	H
5410.0	41.0	0.5	41.5	74	H
1330.0	53.8	-12.6	41.2	74	V
5207.5	40.5	0.3	40.8	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

**AV Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3380.5	-	-3.9	-	54	H
5410.0	-	0.5	-	54	H
1330.0	-	-12.6	-	54	V
5207.5	-	0.3	-	54	V

Test at Channel 6 (2.437 GHz) in transmitting status

**TEST REPORT**
**PK Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2158.0	43.5	-8.5	35.0	74	H
4790.5	40.7	-0.4	40.3	74	H
1997.5	49.1	-9.1	40.0	74	V
5183.5	42.2	0.2	42.4	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

**AV Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2158.0	-	-8.5	-	54	H
4790.5	-	-0.4	-	54	H
1997.5	-	-9.1	-	54	V
5183.5	-	0.2	-	54	V

**Test at Channel 11 (2.462 GHz) in transmitting status**
**PK Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3446.5	42.6	-3.7	38.9	74	H
5486.5	40.5	0.6	41.1	74	H
1328.5	51.6	-12.6	39.0	74	V
5390.5	40.4	0.5	40.9	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

**AV Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3446.5	-	-3.7	-	54	H
5486.5	-	0.6	-	54	H
1328.5	-	-12.6	-	54	V

**TEST REPORT**

5390.5	-	0.5	-	54	V
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802.11n20 mode with 6.5Mbps data rate as below

Test at Channel 1 (2.412 GHz) in transmitting status

## PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3020.5	63.1	-5.3	57.8	74	H
4834.0	70.3	-0.4	69.9	74	H
3019.0	53.3	-5.3	48.0	74	V
4834.0	66.7	-0.4	66.3	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

## AV Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3020.5	32.8	-5.3	27.5	54	H
4834.0	32.7	-0.4	32.3	54	H
3019.0	-	-5.3	-	54	V
4834.0	32.3	-0.4	31.9	54	V

Test at Channel 6 (2.437 GHz) in transmitting status

## PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
3574.0	43.6	-3.3	40.3	74	H
7043.5	41.3	3.5	44.8	74	H
3727.0	44.0	-2.9	41.1	74	V
6446.5	39.9	2.2	42.1	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

## AV Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization

**TEST REPORT**

3574.0	-	-3.3	-	54	H
7043.5	-	3.5	-	54	H
3727.0	-	-2.9	-	54	V
6446.5	-	2.2	-	54	V

Test at Channel 11 (2.462 GHz) in transmitting status

PK Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2942.5	44.4	-5.6	38.8	74	H
6833.5	40.5	3.1	43.6	74	H
2165.5	50.6	-8.5	42.1	74	V
5173.0	42.8	0.2	43.0	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be record.

All other emissions are more than 30 dB below the fundamental or below the general limits specified in § 15.209(a).

AV Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2942.5	-	-5.6	-	54	H
6833.5	-	3.1	-	54	H
2165.5	-	-8.5	-	54	V
5173.0	-	0.2	-	54	V

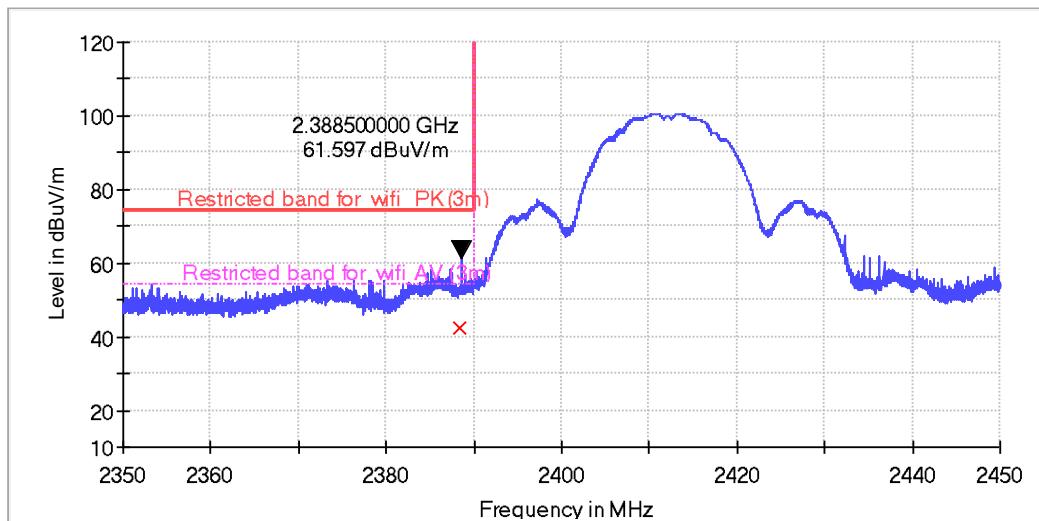
**TEST REPORT**

Band Edges Emission

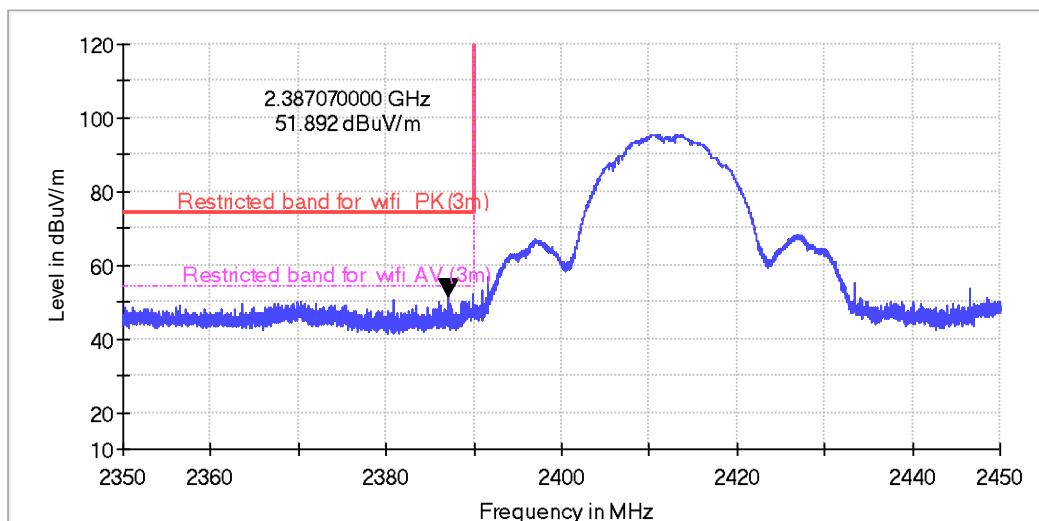
802.11b mode with 1Mbps data rate

Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal



Vertical



Peak Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2388.5	69.3	-7.7	61.6	74	H
2387.1	59.7	-7.8	51.9	74	V

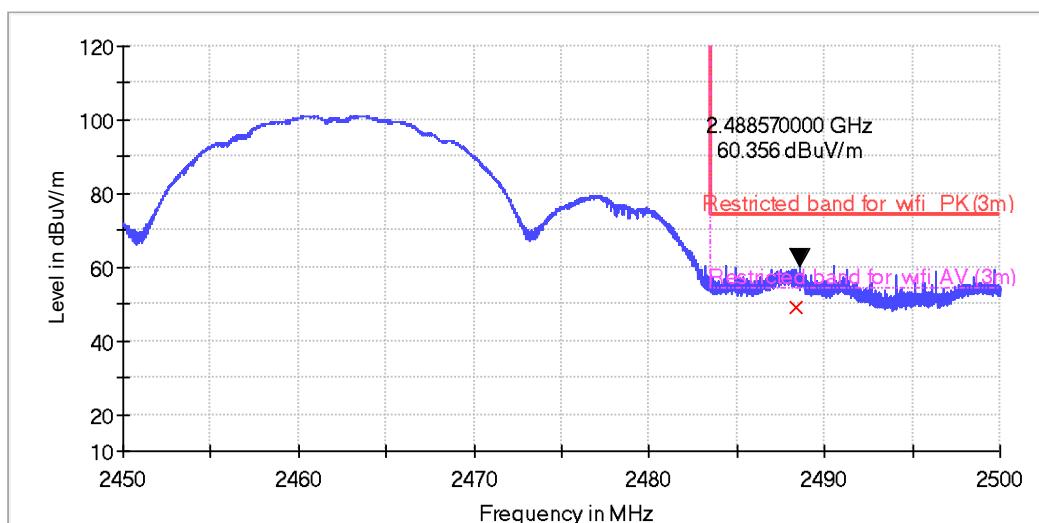
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

**TEST REPORT**
**Average Measurement:**

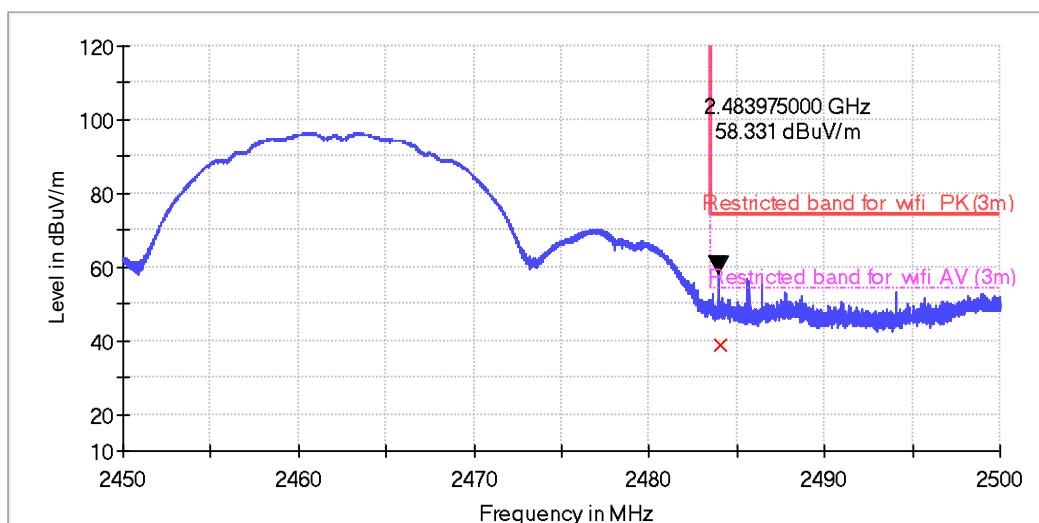
Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2388.5	50.3	-7.7	42.6	54	H
2387.1	-	-7.8	-	54	V

Test at Channel 11 (2.462 GHz) in transmitting status

Horizontal



Vertical



**TEST REPORT**
**Peak Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2488.6	67.8	-7.4	60.4	74	H
2484.0	65.7	-7.4	58.3	74	V

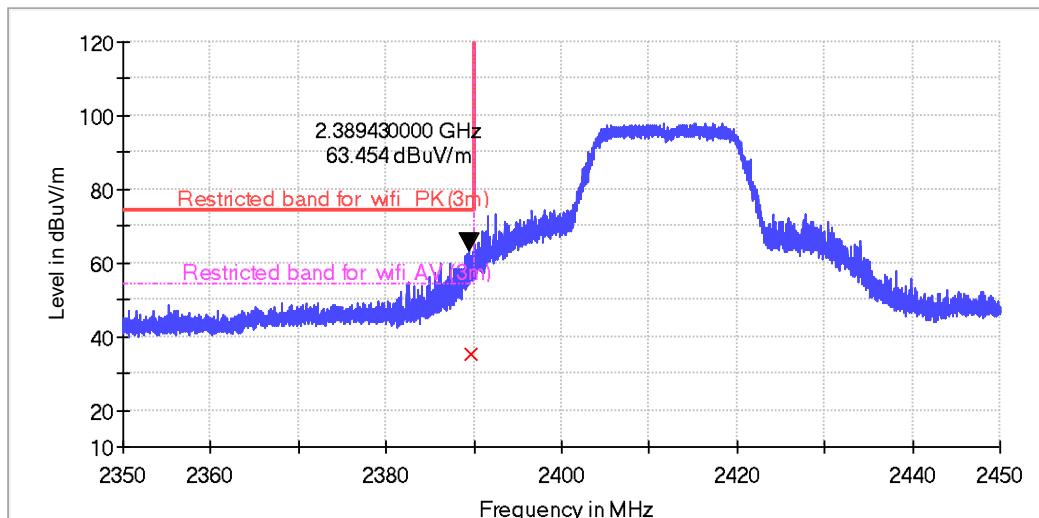
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

**Average Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2488.6	56.3	-7.4	48.9	54	H
2484.0	46.3	-7.4	38.9	54	V

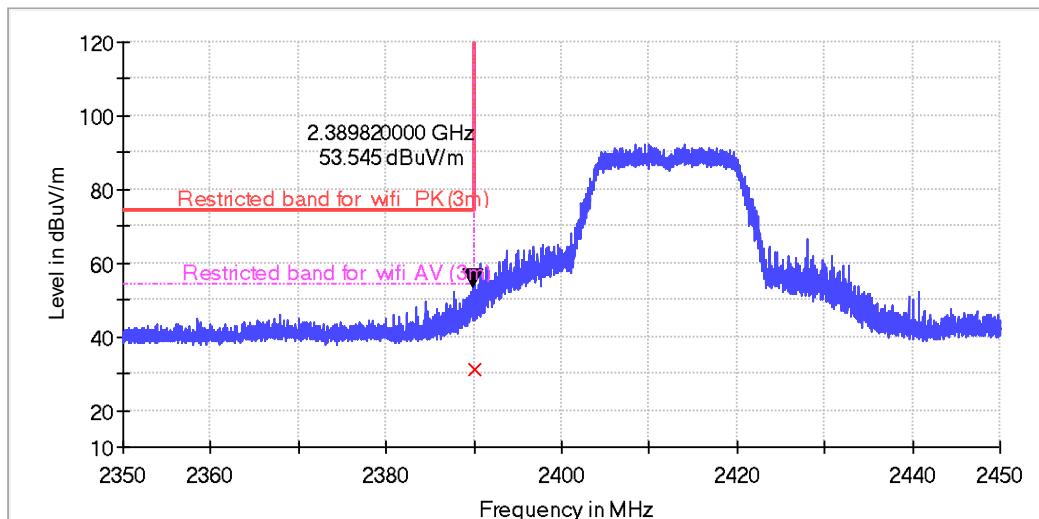
802.11g mode with 6Mbps data rate

Test at Channel 1 (2.412 GHz) in transmitting status  
 Horizontal



**TEST REPORT**

Vertical


**Peak Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2389.4	71.2	-7.7	63.5	74	H
2389.8	61.2	-7.7	53.5	74	V

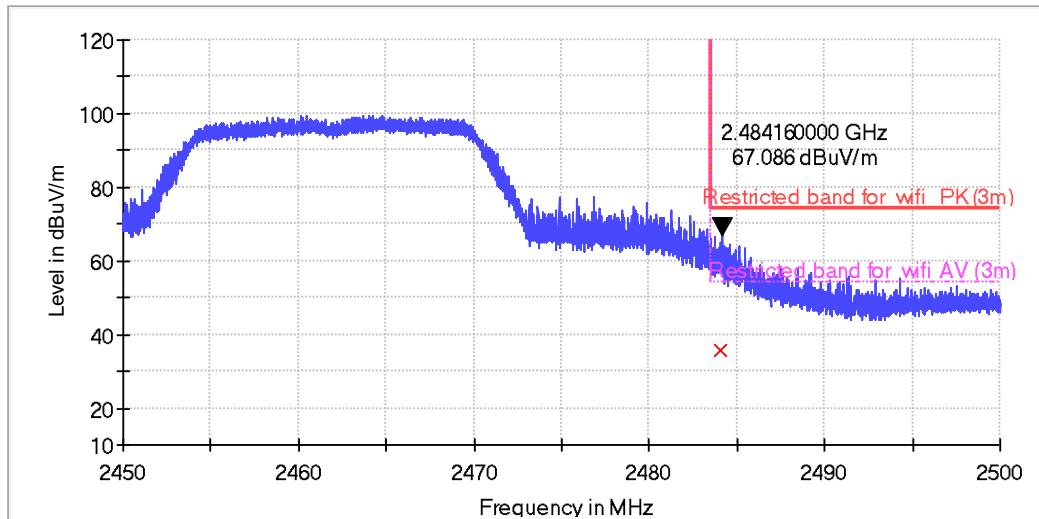
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

**Average Measurement:**

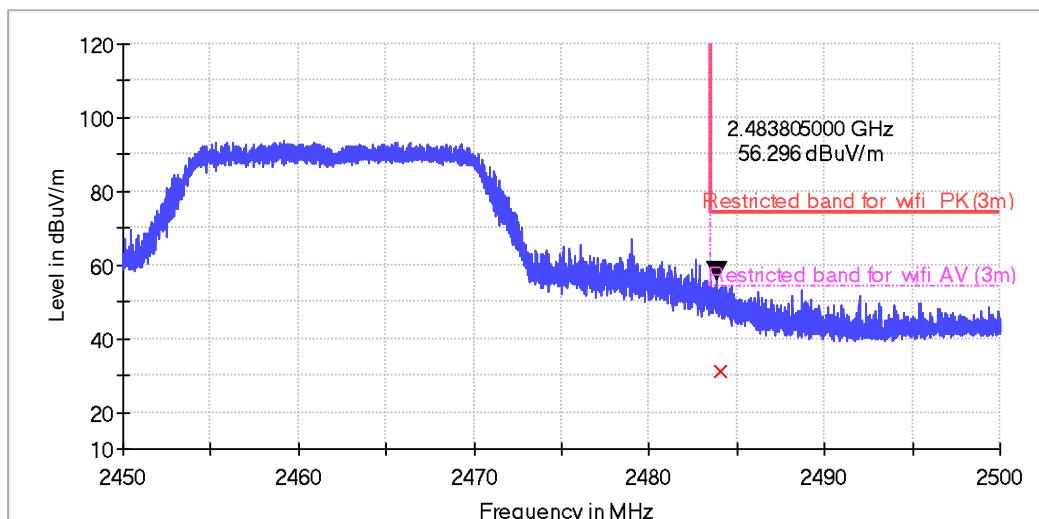
Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2389.4	42.7	-7.7	35.0	54	H
2389.8	38.8	-7.7	31.1	54	V

**TEST REPORT**

Test at Channel 11 (2.462 GHz) in transmitting status  
Horizontal



Vertical



Peak Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2484.2	74.5	-7.4	67.1	74	H
2483.8	63.7	-7.4	56.3	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

## TEST REPORT

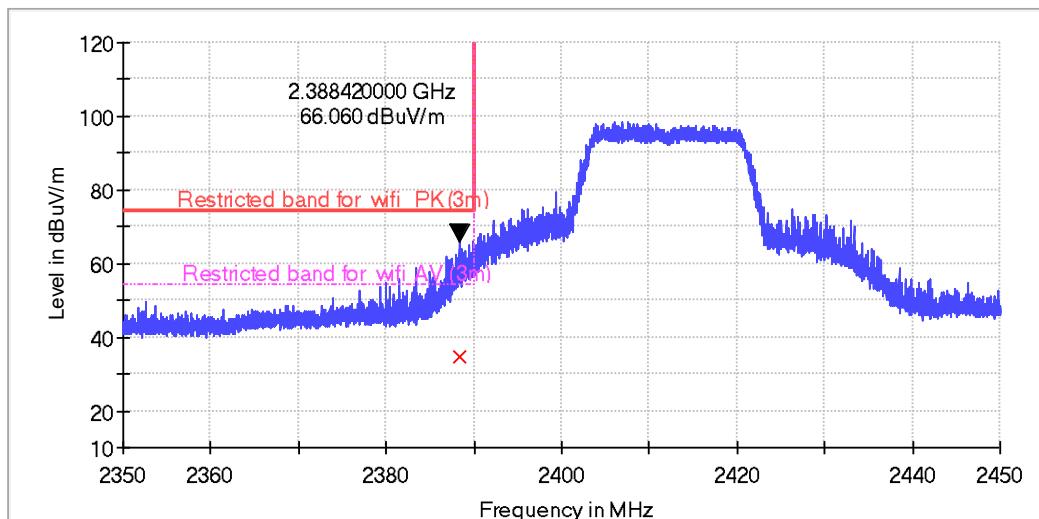
Average Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2484.2	43.0	-7.4	35.6	54	H
2483.8	38.6	-7.4	31.2	54	V

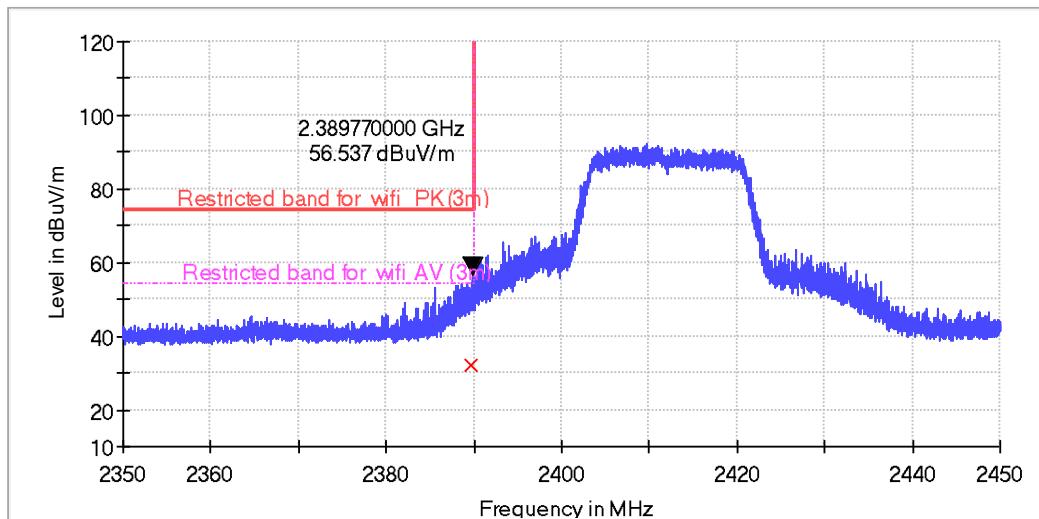
802.11n (HT20) mode with 6.5Mbps data rate

Test at Channel 1 (2.412 GHz) in transmitting status

Horizontal



Vertical



**TEST REPORT**
**Peak Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2388.4	73.8	-7.7	66.1	74	H
2389.8	64.2	-7.7	56.5	74	V

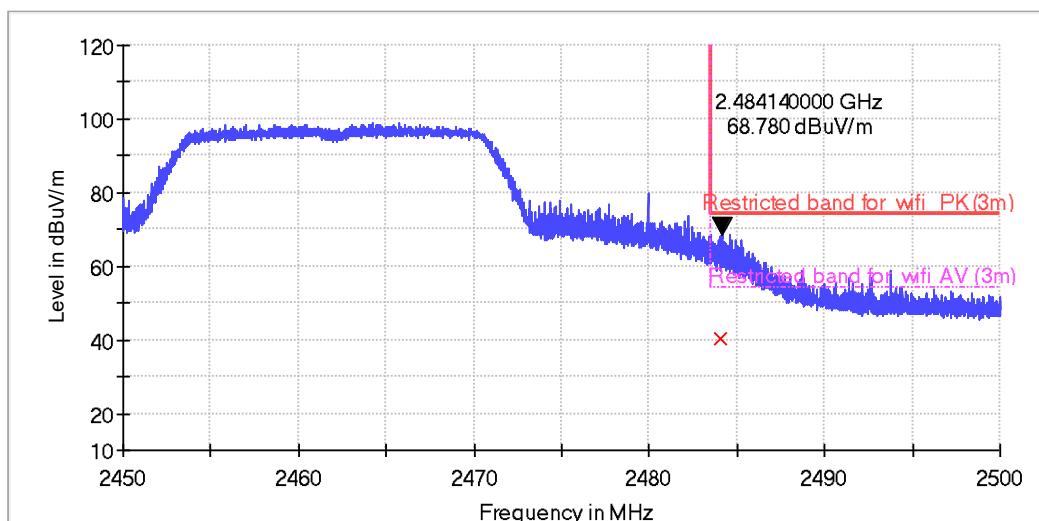
Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

**Average Measurement:**

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2388.4	42.3	-7.7	34.6	54	H
2389.8	39.8	-7.7	32.1	54	V

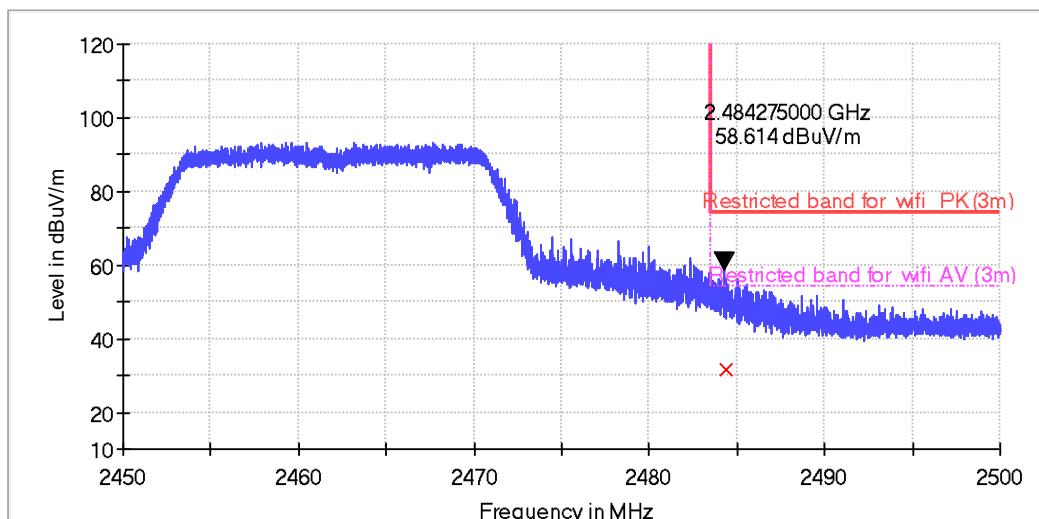
Test at Channel 11 (2.462 GHz) in transmitting status

Horizontal



## TEST REPORT

Vertical



### Peak Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2484.1	76.2	-7.4	68.8	74	H
2484.3	66.0	-7.4	58.6	74	V

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

### Average Measurement:

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor	Emission Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Antenna polarization
2484.1	47.6	-7.4	40.2	54	H
2484.3	39.0	-7.4	31.6	54	V

### 4.8 Band Edges Requirement

Test Requirement: FCC Part 15 C section 15.247  
 RSS-247 Clause 5.5

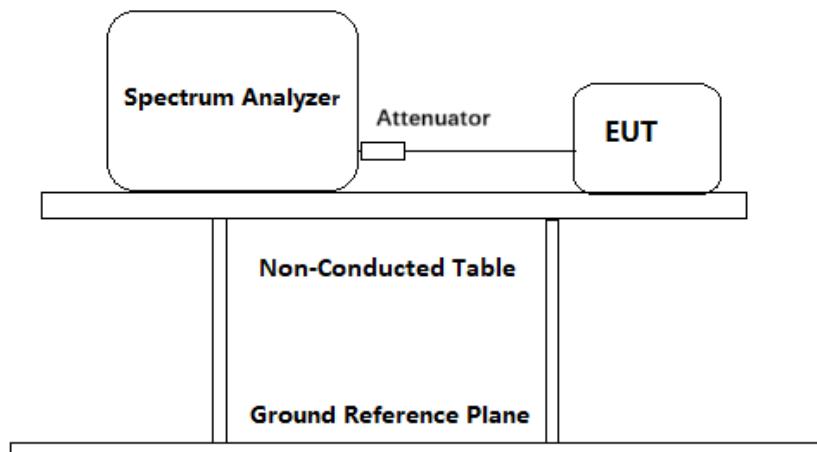
(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of

## TEST REPORT

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)).

Clause 5.5: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

Frequency Band:	2400 MHz to 2483.5 MHz
Test Method:	ANSI C63.10: Clause 11.11 and 11.13 RSS-Gen clause 6.13
Test Status:	Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). Following channel(s) was (were) selected for the final test as listed below.
Test Configuration:	For Band Edges Emission in Radiated mode, please refer to clause 4.7



## TEST REPORT

Test Procedure: For Band Edges Emission in Radiated mode, Please refer to clause 4.7

1. Remove the antenna from the EUT and then connect a low RF cable (cable loss =1 dB, with a 10dB attenuator) from the antenna port to the spectrum analyzer.
  - a) Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).
  - b) Set the center frequency and span to encompass frequency range to be measured.
  - c) RBW = 100 kHz.
  - d) VBW  $\geq [3 \times \text{RBW}]$ .
  - e) Detector = peak.
  - f) Sweep time = auto.
  - g) Trace mode = max hold.
  - h) Allow sweep to continue until the trace stabilizes (required measurement time may increase for low-duty-cycle applications).
  - i) For radiated Band-edge emissions within a restricted band and within 2 MHz of an authorized band edge, integration method is considered.
2. Repeat until all the test status is investigated.
3. Report the worst case.

### Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Double-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

Test result with plots as follows:

For conduct mode:

The band edges was measured and recorded Result:

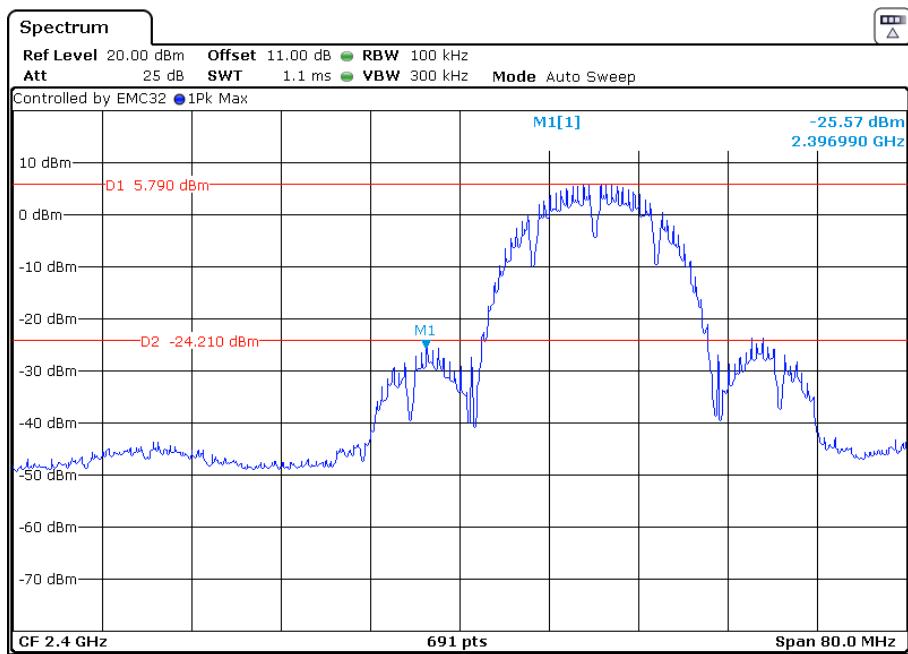
The Lower Edges attenuated more than 30dB.

The Upper Edges attenuated more than 30dB.

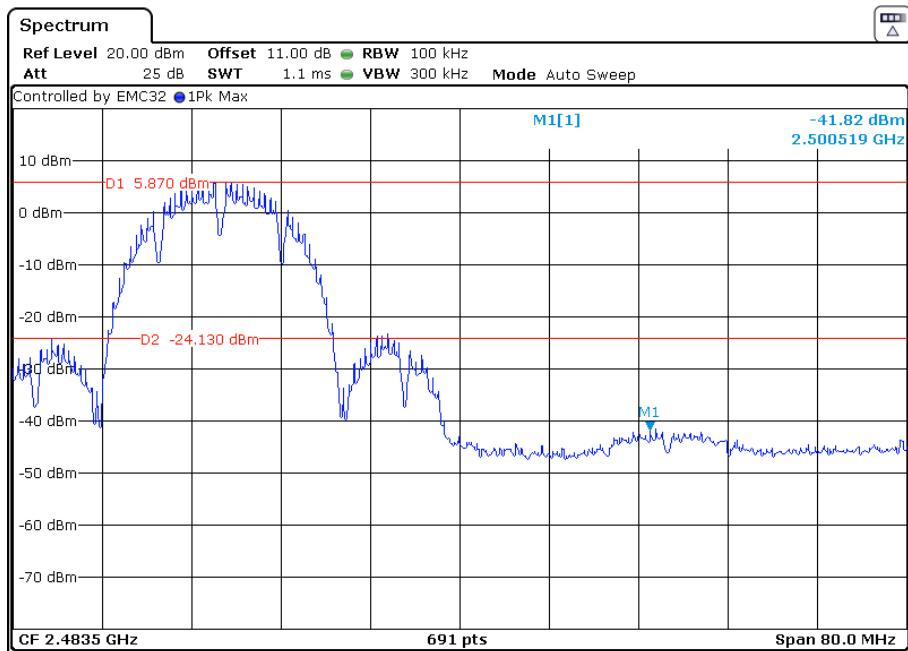
### Result plots as follows:

**802.11b mode with 1 Mbps data rate**

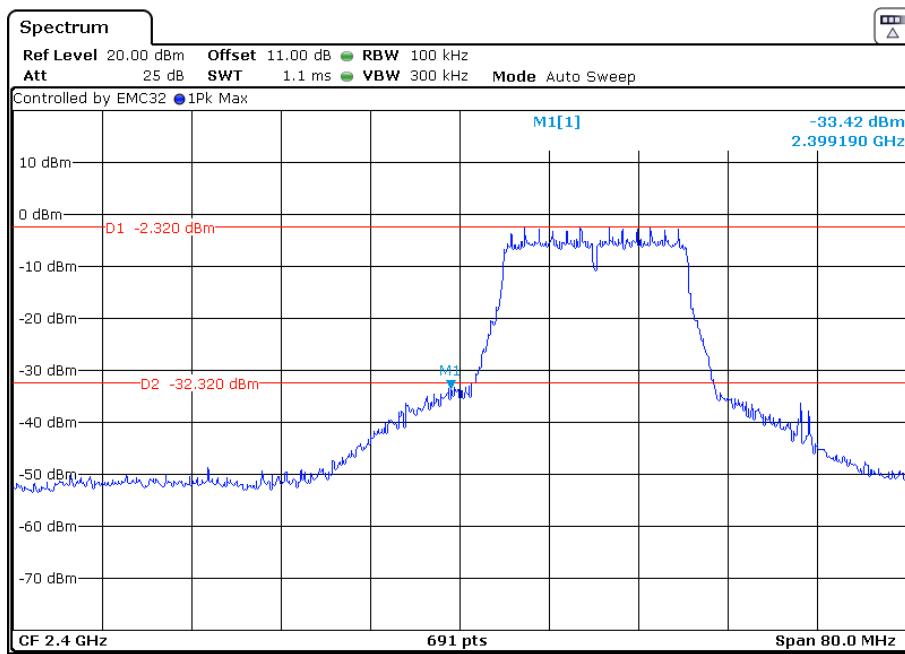
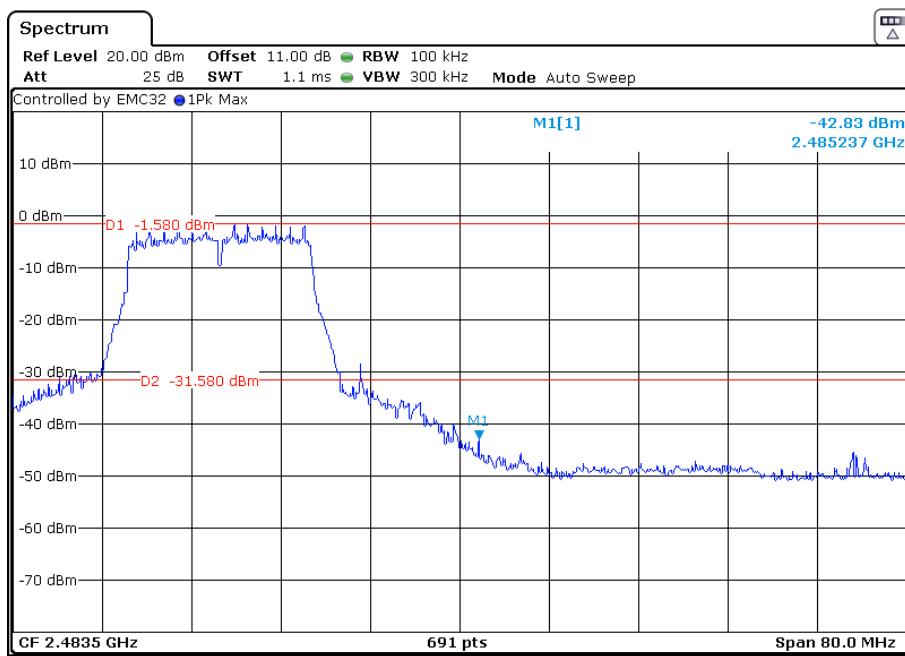
Channel1: 2.412 GHz

**TEST REPORT**


Channel 11: 2.462 GHz

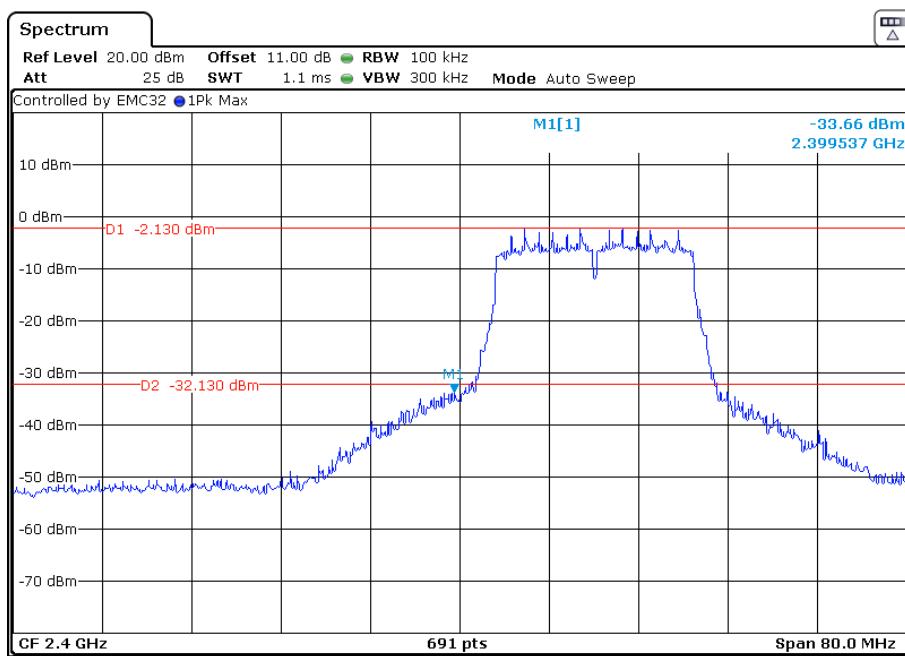

**802.11g mode with 6 Mbps data rate**

Channel1: 2.412 GHz

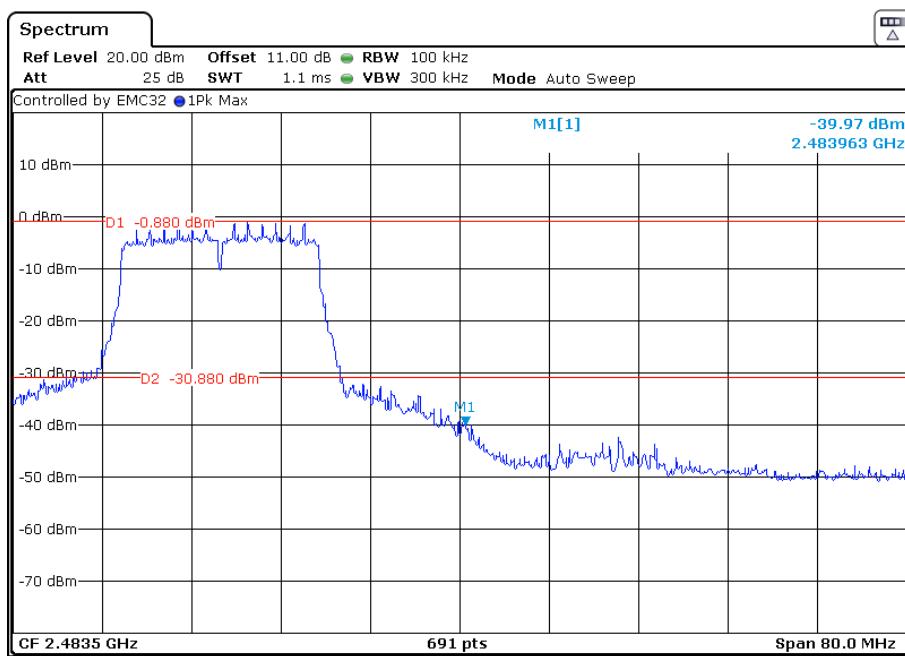
**TEST REPORT**

**Channel 11: 2.462 GHz**

**802.11n(HT20) mode with 6.5 Mbps data rate**

Channel 1: 2.412 GHz

## TEST REPORT



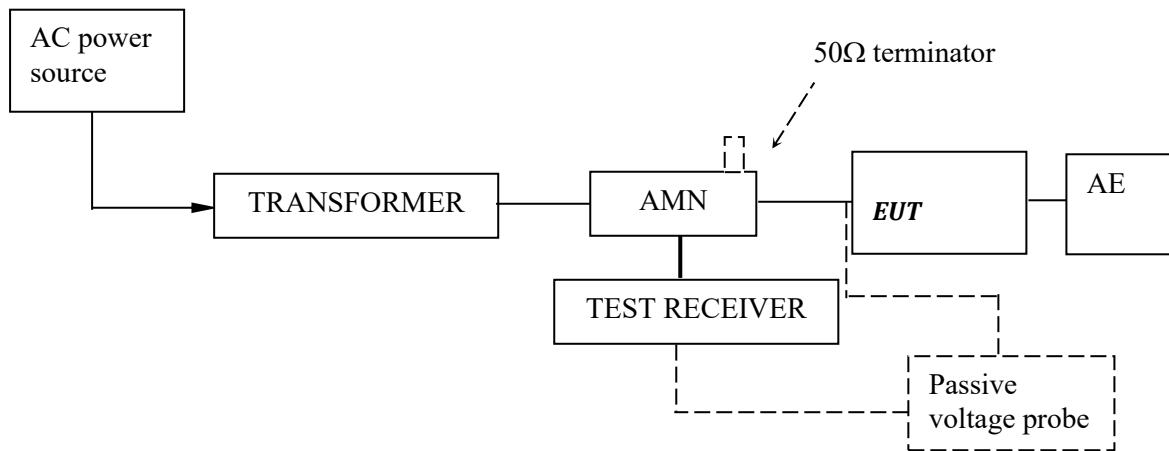
Channel 11: 2.462 GHz



## TEST REPORT

### 4.9 Conducted Emission Test

Test Configuration:



#### Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a  $50\Omega$  linear impedance Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 0.1m high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

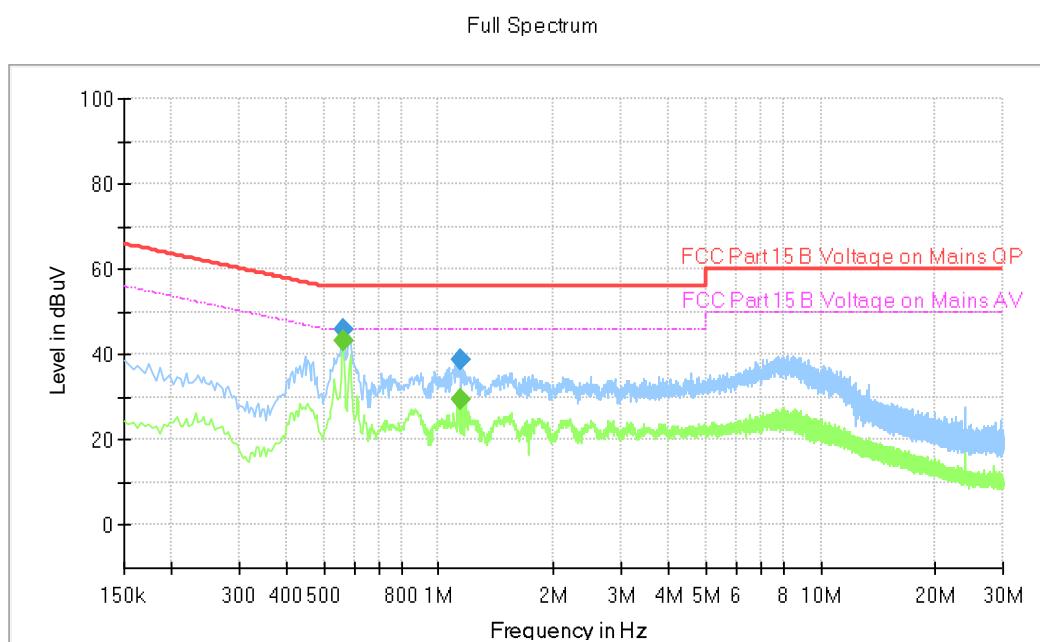
## TEST REPORT

### Test Data and Curve

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting mode



### Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.562000	---	43.27	46.00	2.73	1000.0	9.000	L1	ON	9.7
0.562000	45.85	---	56.00	10.15	1000.0	9.000	L1	ON	9.7
1.146000	---	29.55	46.00	16.45	1000.0	9.000	L1	ON	9.7
1.146000	38.61	---	56.00	17.39	1000.0	9.000	L1	ON	9.7

#### Remark:

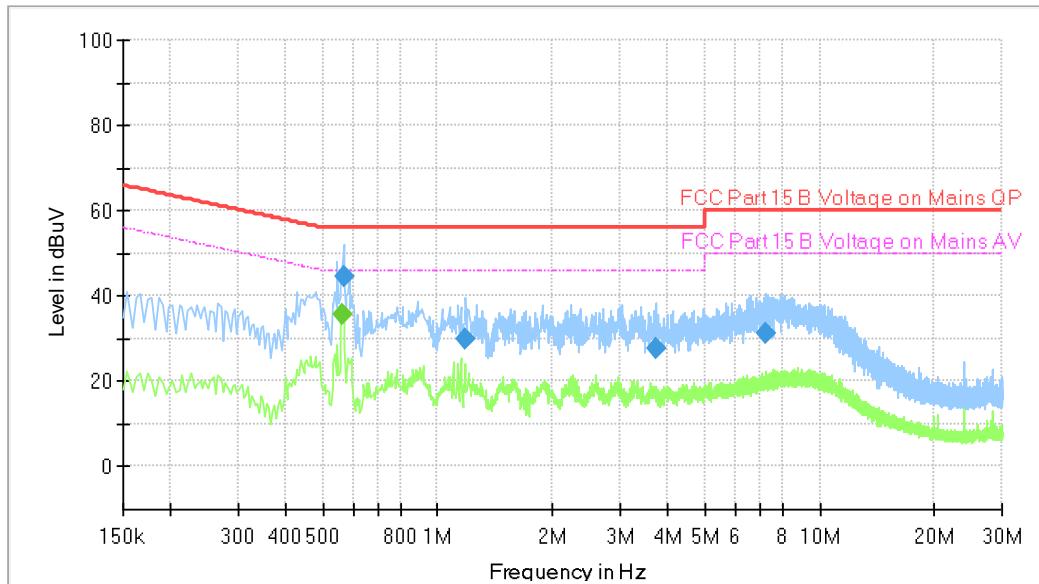
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dB $\mu$ V) = Corr. (dB) + Read Level (dB $\mu$ V)
3. Margin (dB) = Limit (dB $\mu$ V) - Level (dB $\mu$ V)

**TEST REPORT**

Tested Wire: Neutral

Operation Mode: transmitting mode

Full Spectrum


**Final Result**

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.562000	---	35.84	46.00	10.16	1000.0	9.000	N	ON	9.7
0.566000	44.43	---	56.00	11.57	1000.0	9.000	N	ON	9.7
1.186000	29.99	---	56.00	26.01	1000.0	9.000	N	ON	9.7
3.718000	27.55	---	56.00	28.45	1000.0	9.000	N	ON	9.7
7.238000	31.35	---	60.00	28.65	1000.0	9.000	N	ON	9.8

**Remark:**

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dB $\mu$ V) = Corr. (dB) + Read Level (dB $\mu$ V)
3. Margin (dB) = Limit (dB $\mu$ V) - Level (dB $\mu$ V)

**TEST REPORT**
**5.0 Test Equipment List**

Radiated Emission/Radio					
Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m <sup>3</sup>	ETS• LINDGREN	2026-04-08	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2025-11-10	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2025-11-10	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2025-07-07	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2025-12-08	1Y
EM033-02	Double-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2025-07-02	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2026-04-27	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2026-04-27	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2026-04-09	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2026-04-09	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2026-04-26	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2025-10-28	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2026-05-14	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2026-01-05	1Y
EM046-05	Power meter	NPR6A	R&S	2026-04-13	1Y
EM046-06	Power meter	NPR6A	R&S	2026-05-14	1Y
EM031-04-01	EMC32	V10.01.00	R&S	N/A	N/A
EM045-01-10	10dB Attenuator	N/A	R&S	2025-12-24	1Y
Conducted Disturbance-Mains Terminal(2)					
Equipment No.	Equipment	Model	Manufacturer	Cal. Due date	Calibration
				(DD-MM-YYYY)	Interval
EM031-04	EMI receiver	ESR3	R&S	05/01/2026	1Y
EM006-06	LISN	ENV216	R&S	01/09/2025	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	20/10/2025	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	05/01/2026	1Y
EM031-04-01	EMC32	V10.01.00	R&S	N/A	N/A

\*\*\*\*End of the test report\*\*\*\*\*