

FCC
RF
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Sharebeat

ISSUED TO
Trend Power Limited

Flat 1, 3/F, Kwai Cheong Ctr, 40-52 Kwai Cheong Rd, N.T., HK



Prepared by: Zhang Yanqing
Zhang Yanqing
(Reporting Specialist)

Date: Nov 18, 2014

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date: Nov 18, 2014

Report No.: BL-SZ1480105-601
EUT Type: Sharebeat
Model Name: SHAREBEAT-1401-01G,
SHAREBEAT-1401-01B,
SHAREBEAT-1401-01O,
SHAREBEAT-1401-01Y,
SHAREBEAT-1401-01P
Brand Name: Power Trend
Test Standard: 47 CFR Part 15 Subpart C
FCC ID: SZJ-SHAREBEAT01

Test conclusion: PASS
Test Date: Sep 20, 2014 ~ Oct 24, 2014
Date of Issue: Nov 18, 2014

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Oct 27, 2014</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Nov 18, 2014</u>	<u>The Second Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6683 3402
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	15 to 35°C
Ambient Relative Humidity	30 to 60%
Ambient Pressure	86 to 106 kPa

1.4 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.
- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Trend Power Limited
Address	Flat 1, 3/F, Kwai Cheong Ctr, 40-52 Kwai Cheong Rd, N.T., HK

2.2 Manufacturer

Manufacturer	Trend Power Limited
Address	Flat 1, 3/F, Kwai Cheong Ctr, 40-52 Kwai Cheong Rd, N.T., HK

2.3 General Description for Equipment under Test (EUT)

EUT Type	Sharebeat
Brand Name	Power Trend
The Under Test Model Name	SHAREBEAT-1401-01G
Series Model Name	SHAREBEAT-1401-01G, SHAREBEAT-1401-01B, SHAREBEAT-1401-01O, SHAREBEAT-1401-01Y, SHAREBEAT-1401-01P
Description of Model name differentiation	The equipment model SHAREBEAT-1401-01G and SHAREBEAT-1401-01B, SHAREBEAT-1401-01O, SHAREBEAT-1401-01Y, SHAREBEAT-1401-01P are Sharebeat, the electrical parameters and internal structure of circuit are same, only the color is different.
Hardware Version	1401_V1R2
Software Version	V2.0.3
Network and Wireless connectivity	WIFI 802.11b, 802.11g and 802.11n (HT20/40)
About the Product	The equipment is Sharebeat, it contains WIFI Modules operating at 2.4GHz ISM band.

2.4 Technical Information

TX/ RX Operating Range	802.11b/g/n(20MHz): 2.412GHz - 2.462GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 1 to 11. 802.11n(40MHz): 2.422GHz - 2.452GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 3 to 9.
Modulation Type	DSSS, OFDM
Antenna Type	PCB Antenna
Antenna Gain	0dBi

Modulation technology	Modulation Type	Transfer Rate (Mbps)	The Frequency Equal to the Transmission Rate of Modulation Signal
DSSS (802.11b)	DBPSK	1	1MHz
	DQPSK	2	
	CCK	5.5/ 11	1.375MHz
OFDM (802.11g)	BPSK	6 / 9	1MHz
	QPSK	12 / 18	
	16QAM	24 / 36	
	64QAM	48 / 54	
OFDM (802.11n-20MHz)	BPSK	6.5	1MHz
	QPSK	13/19.5	
	16QAM	26/39	
	64QAM	52/58.5/65	
OFDM (802.11n-40MHz)	BPSK	13.5	1MHz
	QPSK	27/40.5	
	16QAM	54/81/108	
	64QAM	121.5/135	

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel	
Maximum transmit power	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9
Maximum e.i.r.p. spectral density	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9
Frequency range	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9
Medium Access Protocol	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9
Transmitter spurious emissions	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9
Receiver spurious emissions	11b / 11g/11n20/11n40	11/54/65/135Mbps	1/6/11	3/6/9

Note: The above EUT information in section 2.3 and 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	N/A
	Model No	653036
	Serial No	N/A
	Capacitance	750mAh
	Rated Voltage	3.7V
	Extreme Voltage	Low: 3.3V / High:4.2V

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (12-30-13 Edition)	Miscellaneous Wireless Communications Services
2	KDB Publication 558074 D01v03r02	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
3	ANSI C63.4-2009	American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203 15.247(b)	Note1	PASS
2	Output Power	15.247(b)	ANNEX A.1	PASS
3	6dB Bandwidth	15.247(a)	ANNEX A.2	PASS
4	Conducted Spurious Emission	15.247(d)	ANNEX A.3	PASS
5	Conducted Emission	15.207	ANNEX A.4	PASS
6	Radiated Spurious Emission	15.209 15.247(d)	ANNEX A.5	PASS
7	Band Edge	15.247(d)	ANNEX A.6	PASS
8	Power spectral density (PSD)	15.247(e)	ANNEX A.7	PASS
Note 1: Please refer to section 5.1				

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity (%)	30 -60	
Atmospheric Pressure (kPa)	86-106	
Temperature	NT (Normal Temperature)	+20°C to +25°C
	LT (Low Temperature)	-20°C
	HT (High Temperature)	+55°C
Working Voltage of the EUT	NV (Normal Voltage)	3.7 V
	LV (Low Voltage)	3.3 V
	HV (High Voltage)	4.2 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2014.07.07	2015.07.06
Spectrum Analyzer	ROHDE&SCHWARZ	FSL3	103640/003	2014.07.07	2015.07.06
Power Splitter	KMW	DCPD-LDC	1305003215	2014.07.07	2015.07.06
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2014.07.07	2015.07.06
Attenuator (20dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2014.07.07	2015.07.06
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2014.07.07	2015.07.06
Test Antenna-Loop(9kHz-30MHz)	SCHWARZBECK	FMZB 1519	1519-037	2013.07.03	2015.07.02
Test Antenna-Bi-Log(30MHz-3G Hz)	SCHWARZBECK	VULB 9163	9163-624	2013.07.02	2015.07.01
Test Antenna-Horn(1-18GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2013.07.02	2015.07.01
Test Antenna-Horn(15-26.5GHz)	SCHWARZBECK	BBHA 9170	9170-305	2013.07.02	2015.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2014.10.07	2015.10.06

4.3 Test Configurations

Test Configurations (TC) NO.	Description	
	Signal Description	Operating Frequency
Transmitter		
TC01	DSSS modulation, 802.11b	Ch No. 1/ 2412MHz
TC02	DSSS modulation, 802.11b	Ch No. 6/ 2437MHz
TC03	DSSS modulation, 802.11b	Ch No. 11/ 2462MHz
TC04	OFDM modulation, 802.11g	Ch No. 1/ 2412MHz
TC05	OFDM modulation, 802.11g	Ch No. 6/ 2437MHz
TC06	OFDM modulation, 802.11g	Ch No. 11/ 2462MHz
TC07	OFDM modulation, 802.11n(20MHz)	Ch No. 1/ 2412MHz
TC08	OFDM modulation, 802.11n(20MHz)	Ch No. 6/ 2437MHz
TC09	OFDM modulation, 802.11n(20MHz)	Ch No. 11/ 2462MHz
TC10	OFDM modulation, 802.11n(40MHz)	Ch No. 3/ 2422MHz
TC11	OFDM modulation, 802.11n(40MHz)	Ch No. 6/ 2437MHz
TC12	OFDM modulation, 802.11n(40MHz)	Ch No. 9/ 2452MHz

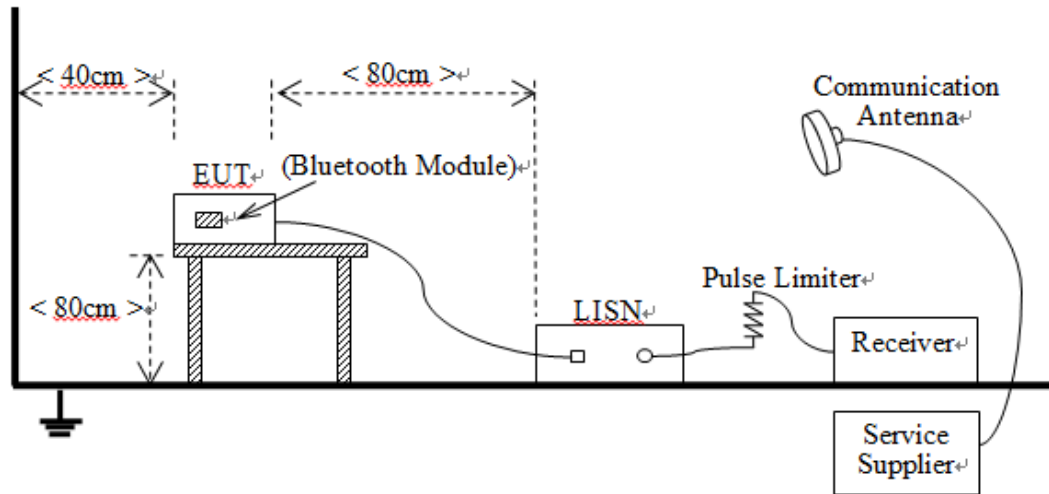
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



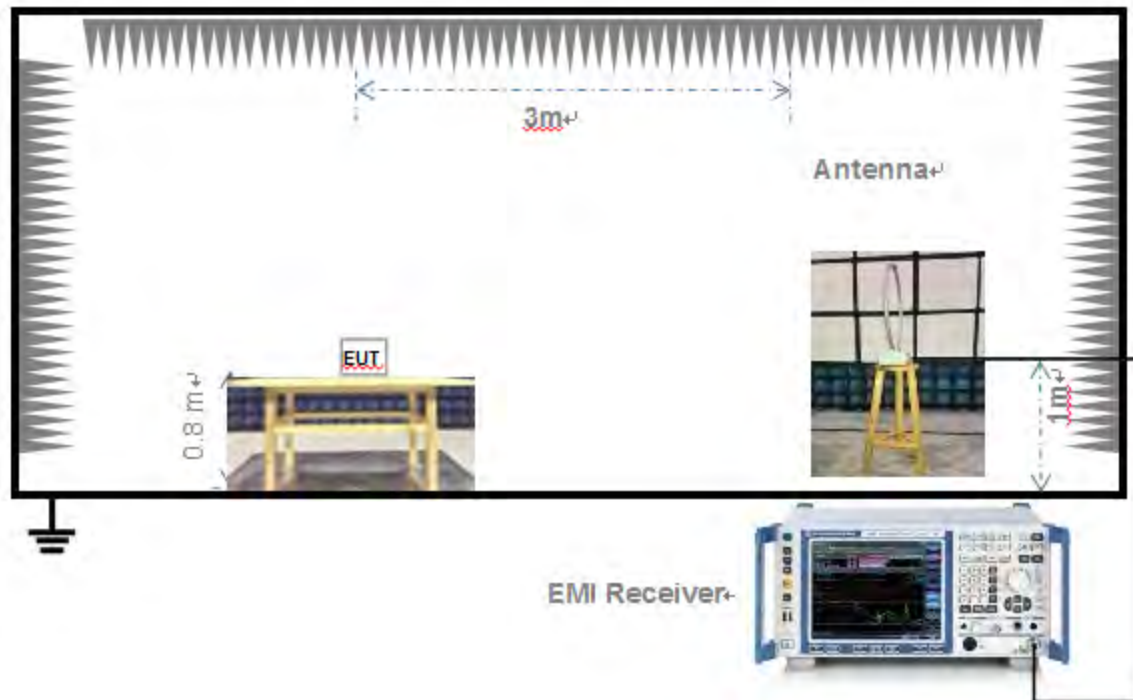
(Diagram 1)

4.4.2 For AC Power Supply Port Test



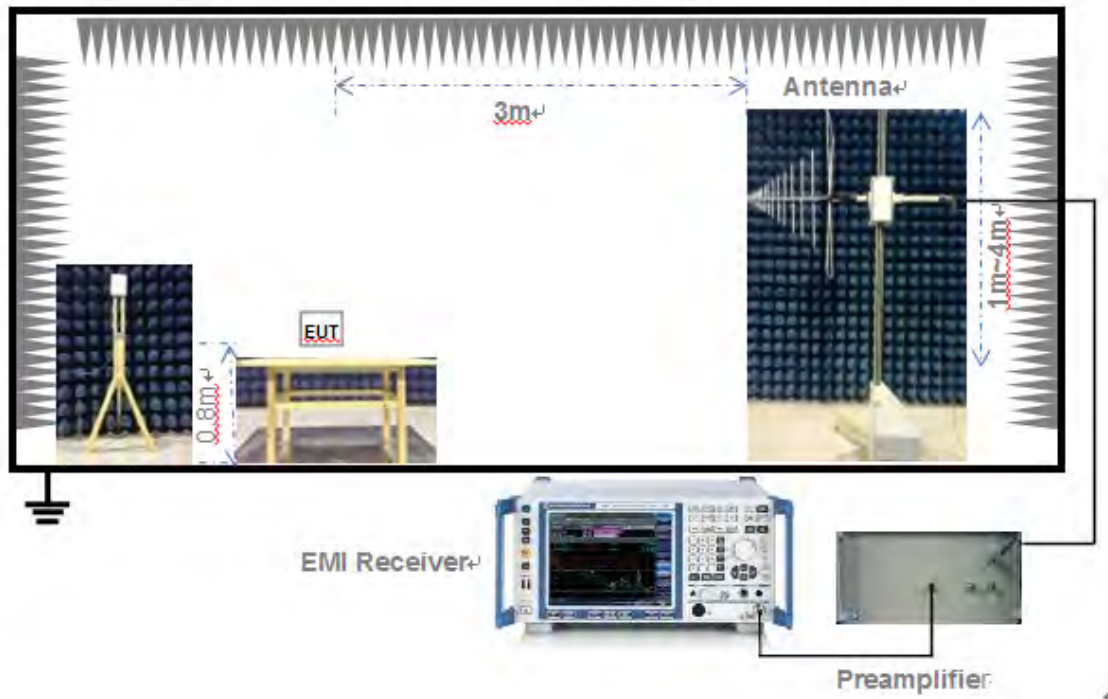
(Diagram 2)

4.4.3 For Radiated Test (Below 30MHz)



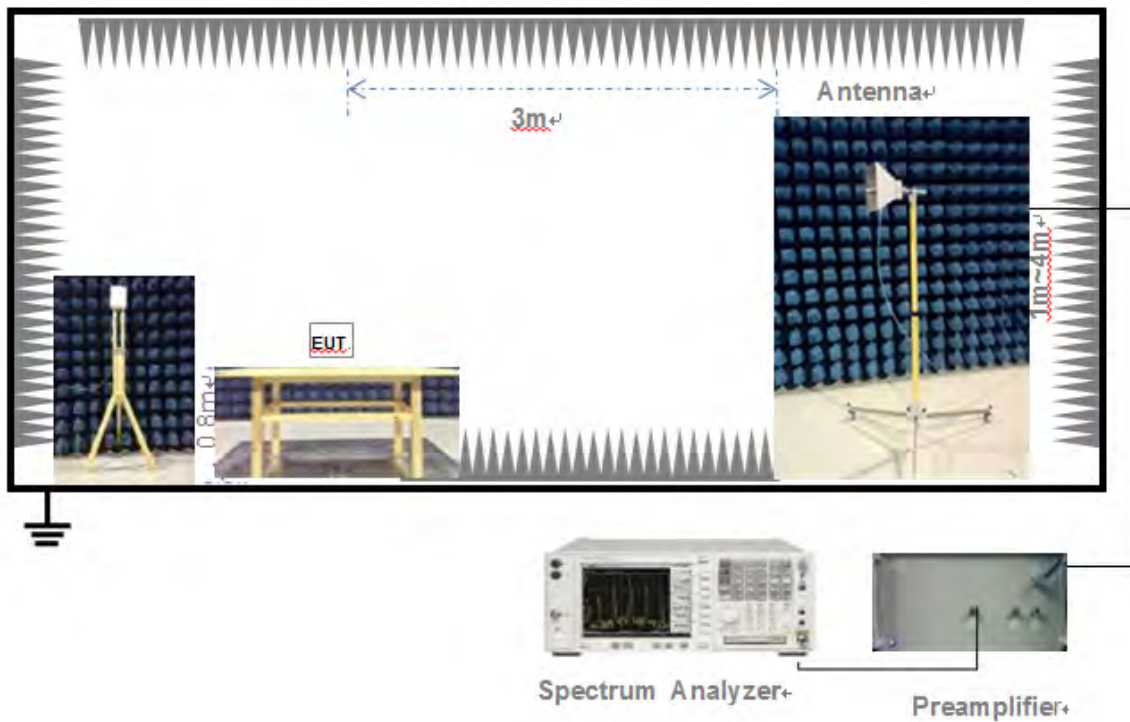
(Diagram 3)

4.4.4 For Radiated Test (30MHz-1GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1GHz)



(Diagram 5)

4.5 Test Conditions

Test Case	Test Conditions		
	Test Env.	Test Setup ^{Note 1}	Test Configuration ^{Note 2}
Peak Output Power	NTNV	Test Setup 1	TC01~TC12
Occupied Bandwidth	NTNV	Test Setup 1	TC01~TC12
Conducted Spurious Emission	NTNV	Test Setup 1	TC01~TC12
Conducted Emission	NTNV	Test Setup 2	TC01~TC12
Radiated Spurious Emission	NTNV	Test Setup 3 Test Setup 4 Test Setup 5	TC01~TC12
Band Edge	NTNV	Test Setup 1	TC01, TC03, TC04, TC06, TC07, TC09, TC10, TC12
Power spectral density (PSD)	NTNV	Test Setup 1	TC01~TC12
Note: 1. Please refer to section 4.4 for test setup details. 2. Please refer to section 4.3 for test setup details.			

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	An embedded-in antenna design is used.

Reference Documents	Item
Photo	

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Procedure

Maximum peak conducted output power

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

Set the RBW = 1 MHz

Set the VBW $\geq$ 3 RBW

Set the span $\geq$ 1.5 x DTS bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector).

Maximum conducted (average) output power (Reporting Only)

a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.

- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding $10\log(1/x)$, where x is the duty cycle to the measurement result.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.

Set $VBW \geq RBW$. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.3 6dB Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(c)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4.2 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.5 Conducted Emission

5.5.1 Limit

FCC §15.207

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 within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.5.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.6 Radiated Spurious Emission

5.6.1 Limit

FCC §15.209&15.247(c)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

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

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000MHz, limit field strength of harmonics: $54\text{dB}\mu\text{V/m}@3\text{m}$ (AV) and $74\text{dB}\mu\text{V/m}@3\text{m}$ (PK).

5.6.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360° , and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1 \text{ GHz}$, 100 kHz for $f < 1 \text{ GHz}$

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.7 Band Edge

5.7.1 Limit

FCC §15.209&15.247(d)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

5.8 Power Spectral density (PSD)

5.8.1 Limit

FCC §15.247(d)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.8.2 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Test Mode	Duty Cycle(%)	T(ms)	1/T(kHz)
802.11b	82.3	0.935	1.070
802.11g	46.5	0.176	5.682
802.11n-20MHz	44.4	0.163	6.135
802.11n-40MHz	32.7	0.098	10.204

Peak Power Test Data

802.11b Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.95	78.52	30	1000	PASS
Middle	19.41	87.30			PASS
High	20.69	117.22			PASS

802.11g Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.04	80.17	30	1000	PASS
Middle	20.04	100.93			PASS
High	21.58	143.88			PASS

802.11n-20MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	18.68	73.79	30	1000	PASS
Middle	19.65	92.26			PASS
High	21.19	131.52			PASS

802.11n-40MHz Mode:

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	19.25	84.14	30	1000	PASS
Middle	19.87	97.05			PASS
High	20.48	111.69			PASS

Average Power Test Data (Reporting Only)

802.11b Mode:

Channel	Duty Factor(10 log (1/x))	Measured Output Average Power		Verdict
		dBm	mW	
Low	0.85	13.85	24.27	PASS
Middle	0.85	14.41	27.61	PASS
High	0.85	16.4	43.65	PASS

802.11g Mode:

Channel	Duty Factor(10 log (1/x))	Measured Output Average Power		Verdict
		dBm	mW	
Low	3.33	10.96	12.47	PASS
Middle	3.33	12.12	16.29	PASS
High	3.33	13.84	24.21	PASS

802.11n-20MHz Mode:

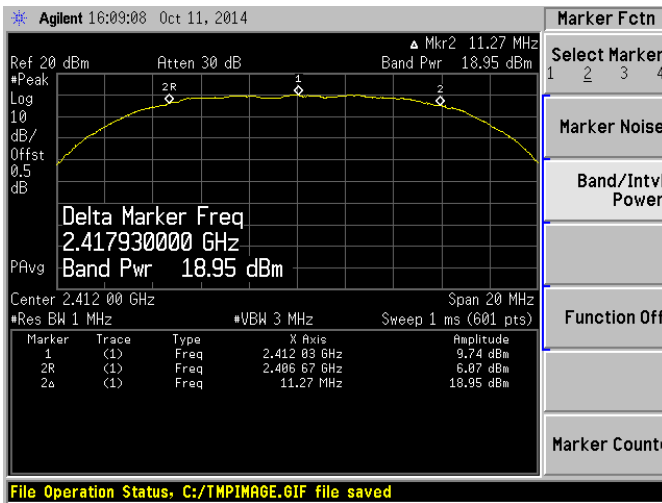
Channel	Duty Factor(10 log (1/x))	Measured Output Average Power		Verdict
		dBm	mW	
Low	3.53	11.22	13.24	PASS
Middle	3.53	12.37	17.26	PASS
High	3.53	14.05	25.41	PASS

802.11n-40MHz Mode:

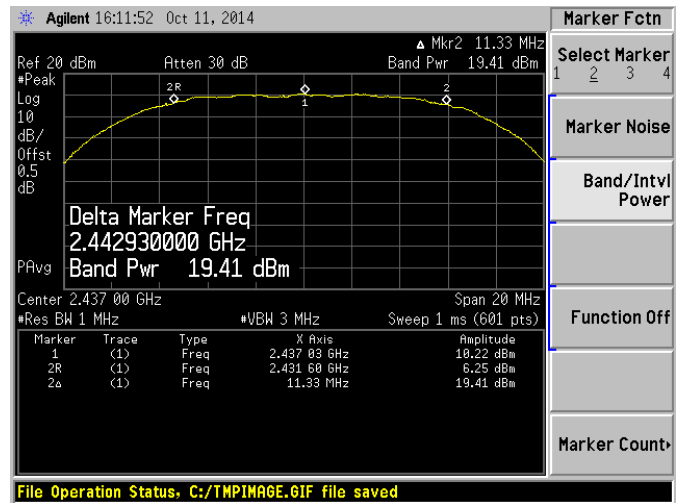
Channel	Duty Factor(10 log (1/x))	Measured Output Average Power		Verdict
		dBm	mW	
Low	4.85	12.12	16.29	PASS
Middle	4.85	12.77	18.92	PASS
High	4.85	13.42	21.98	PASS

Peak Power Test Plots

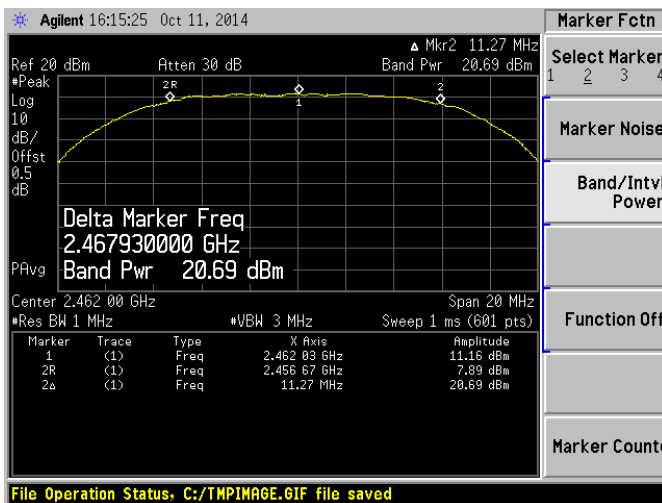
802.11b LOW CHANNEL



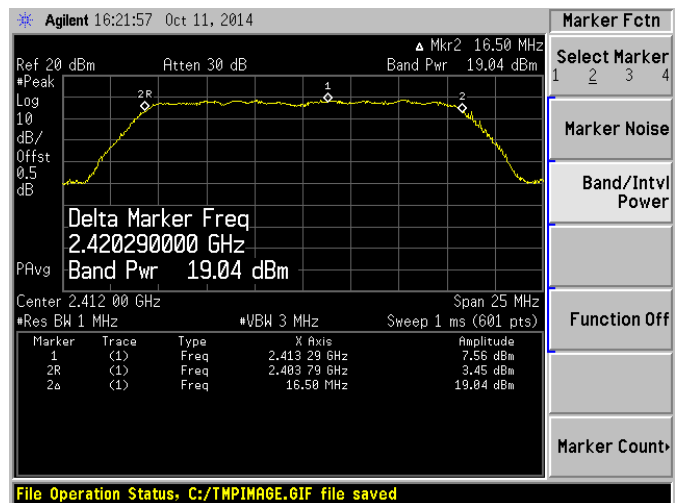
802.11b MID CHANNEL



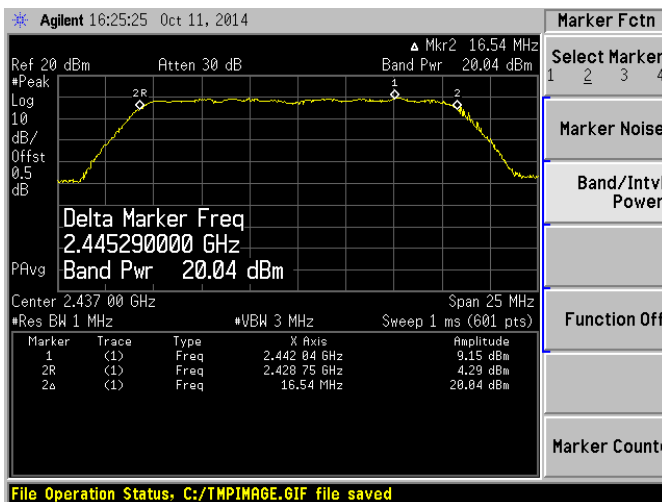
802.11b HIGH CHANNEL



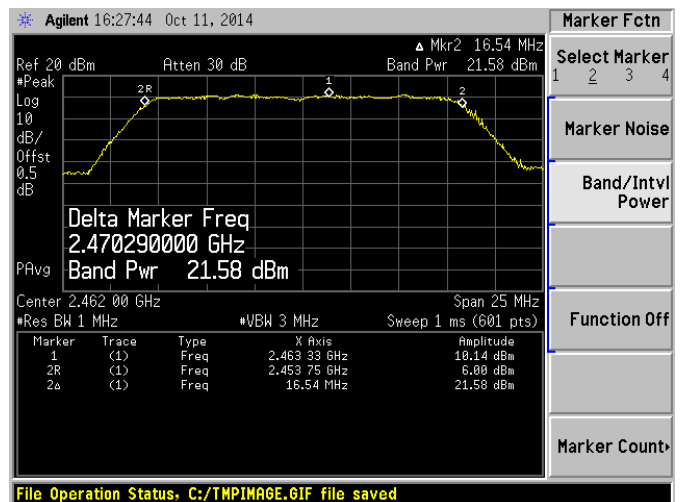
802.11g LOW CHANNEL



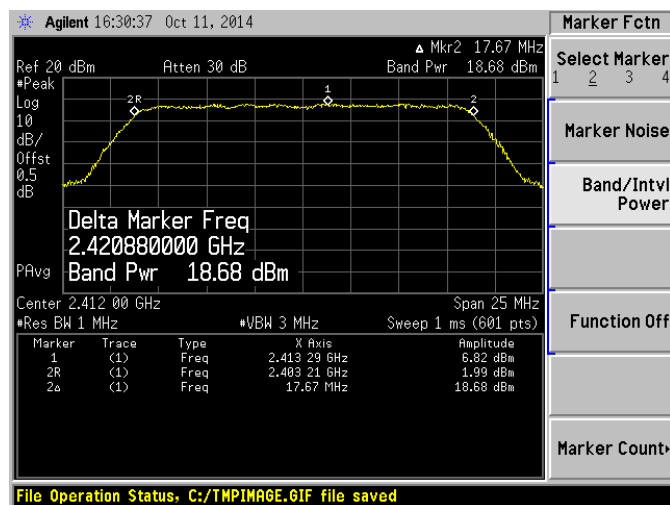
802.11g MID CHANNEL



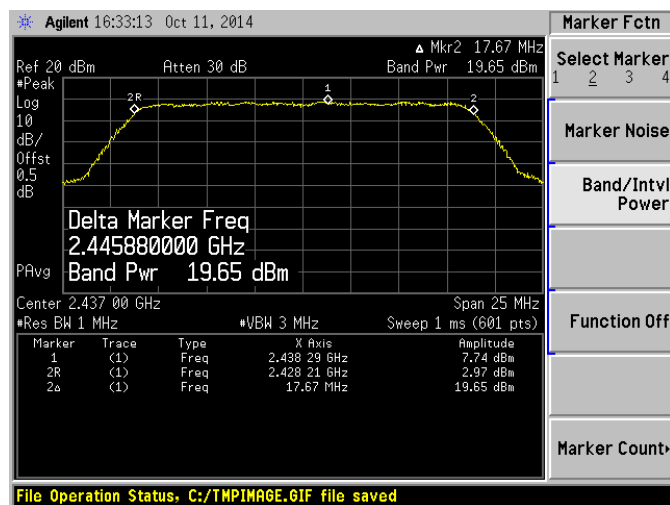
802.11g HIGH CHANNEL



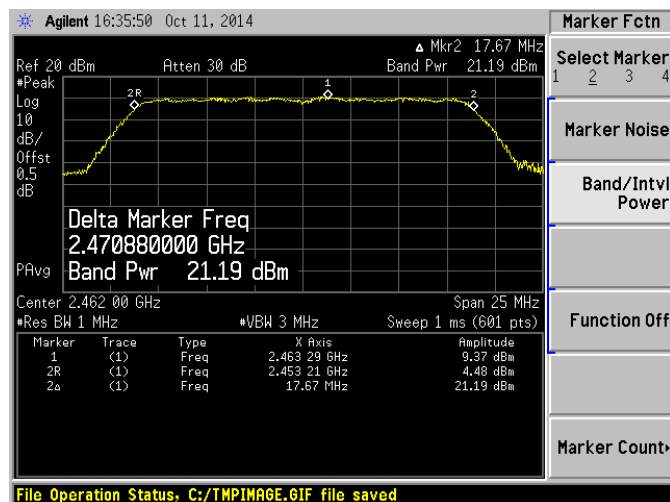
802.11n 20MHz LOW CHANNEL



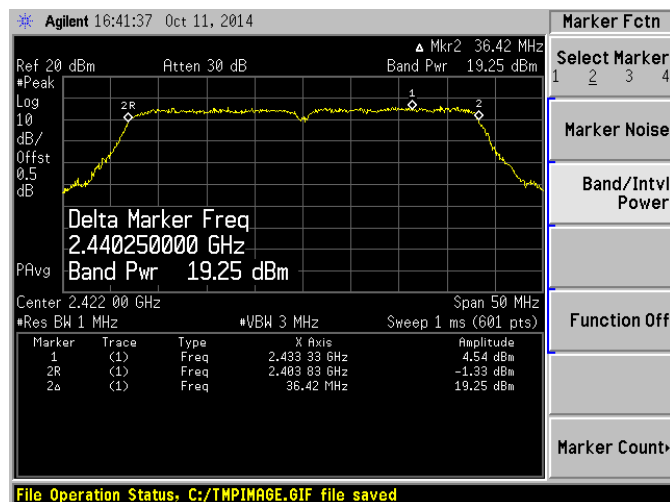
802.11n 20MHz MID CHANNEL



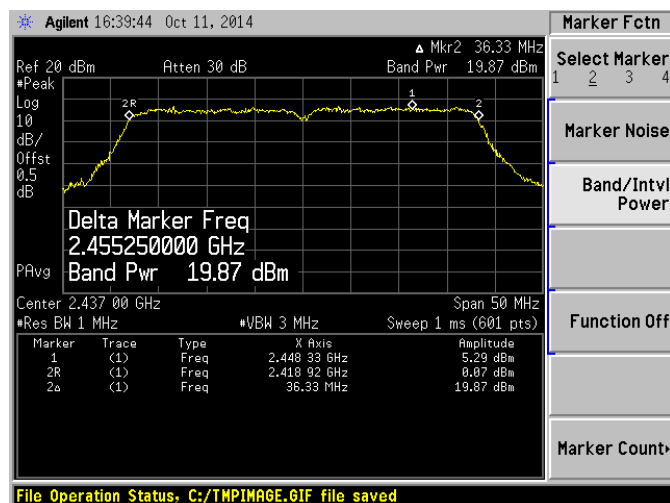
802.11n 20MHz HIGH CHANNEL



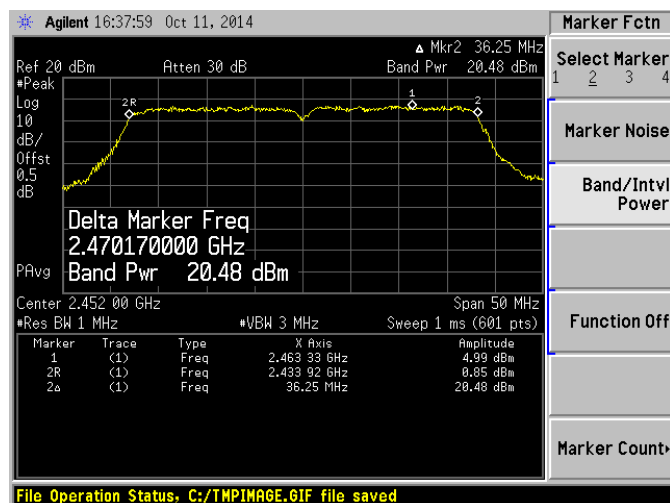
802.11n 40MHz LOW CHANNEL



802.11n 40MHz MID CHANNEL



802.11n 40MHz HIGH CHANNEL



A.2 Bandwidth

Test Data

802.11b Mode:

Channel	6 dB Bandwidth (MHz)	Limits (kHz)
Low	11.27	≥ 500
Middle	11.33	≥ 500
High	11.27	≥ 500

802.11g Mode:

Channel	6 dB Bandwidth (MHz)	Limits (kHz)
Low	16.50	≥ 500
Middle	16.54	≥ 500
High	16.54	≥ 500

802.11n-20MHz Mode:

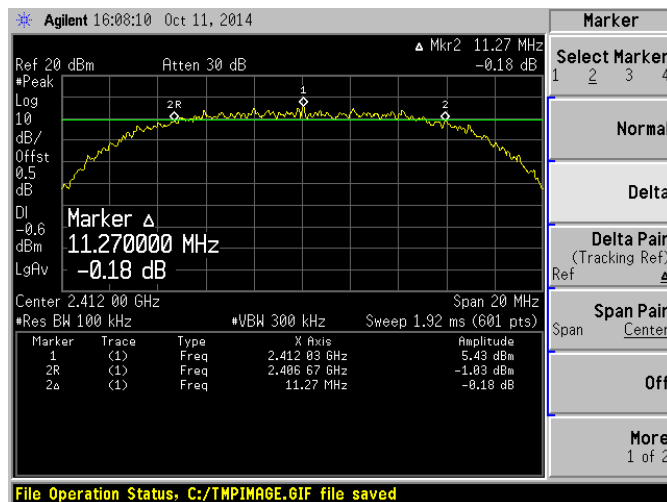
Channel	6 dB Bandwidth (MHz)	Limits (kHz)
Low	17.67	≥ 500
Middle	17.67	≥ 500
High	17.67	≥ 500

802.11n-40MHz Mode:

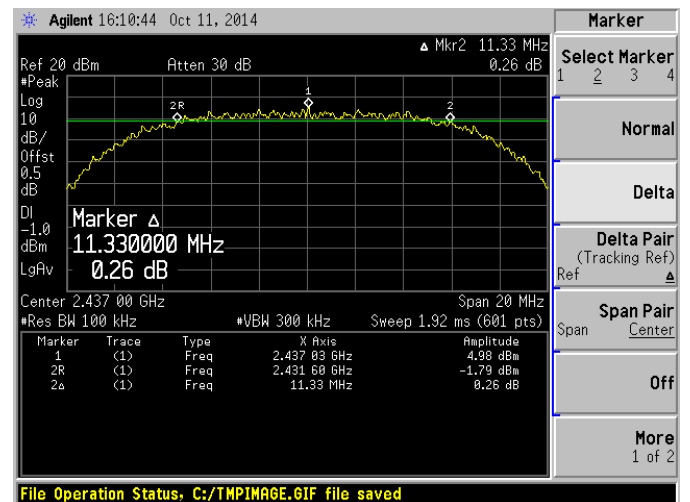
Channel	6 dB Bandwidth (MHz)	Limits (kHz)
Low	36.42	≥ 500
Middle	36.33	≥ 500
High	36.25	≥ 500

Test plots

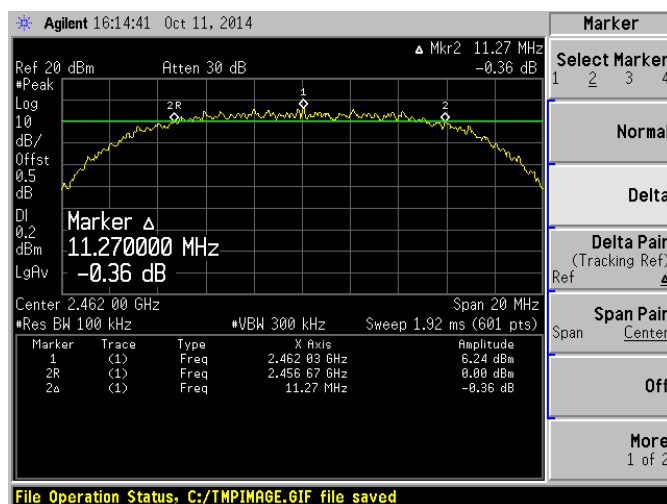
802.11b LOW CHANNEL



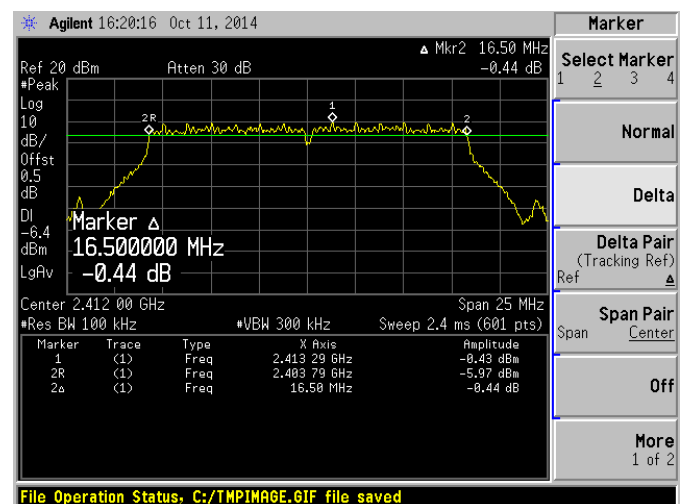
802.11b MID CHANNEL



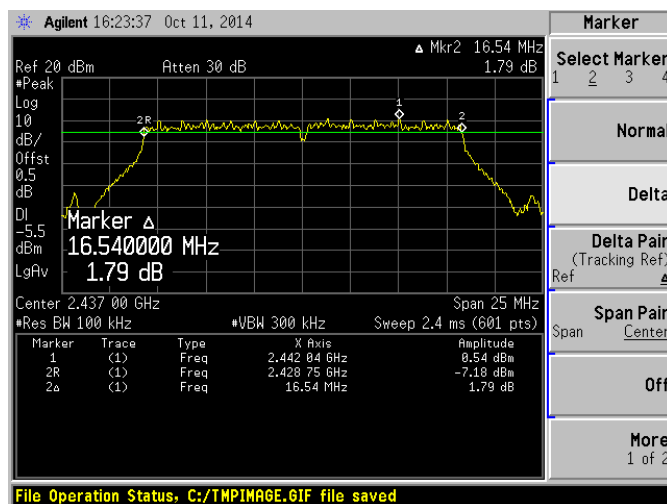
802.11b HIGH CHANNEL



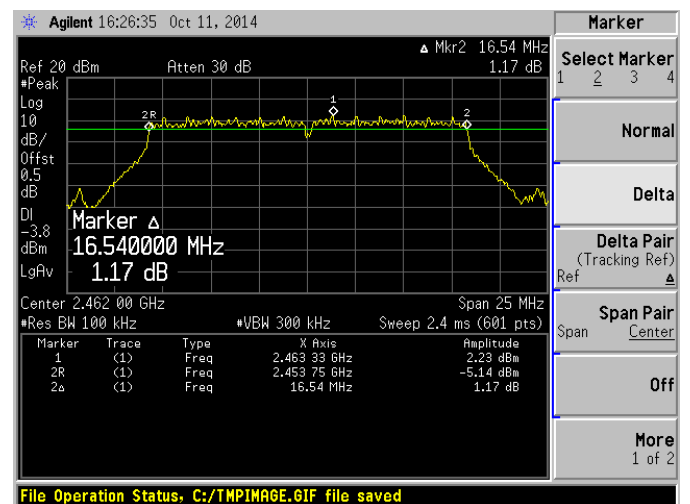
802.11g LOW CHANNEL



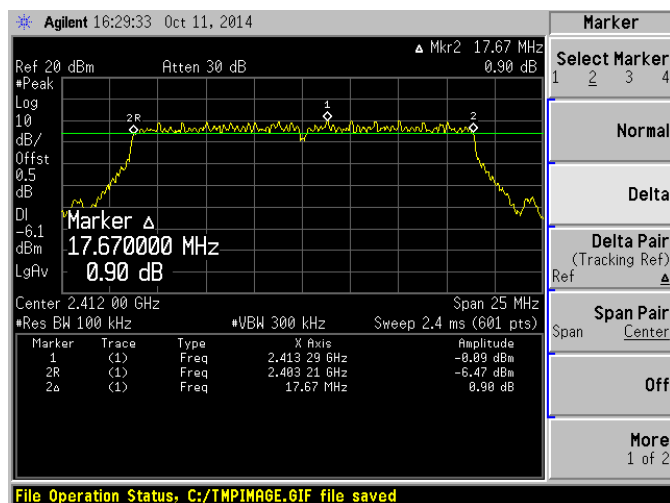
802.11g MID CHANNEL



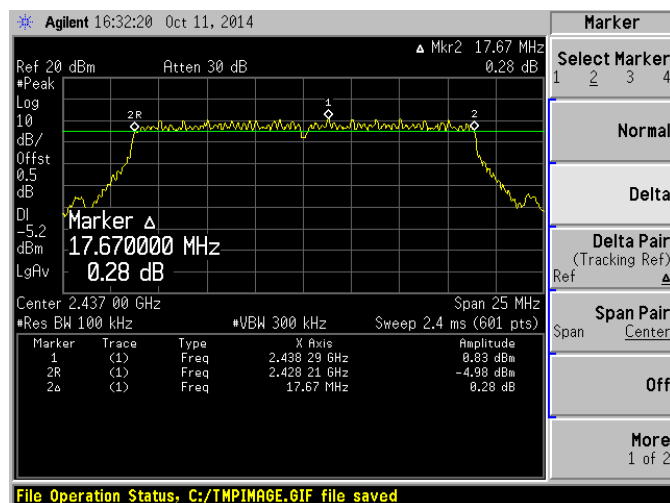
802.11g HIGH CHANNEL



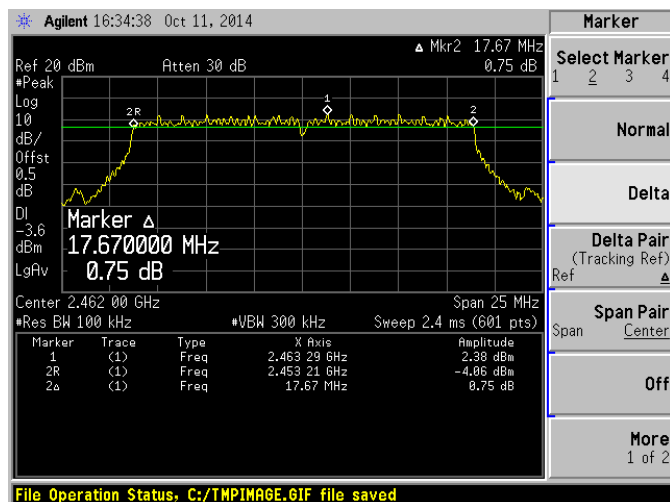
802.11n-20MHz LOW CHANNEL



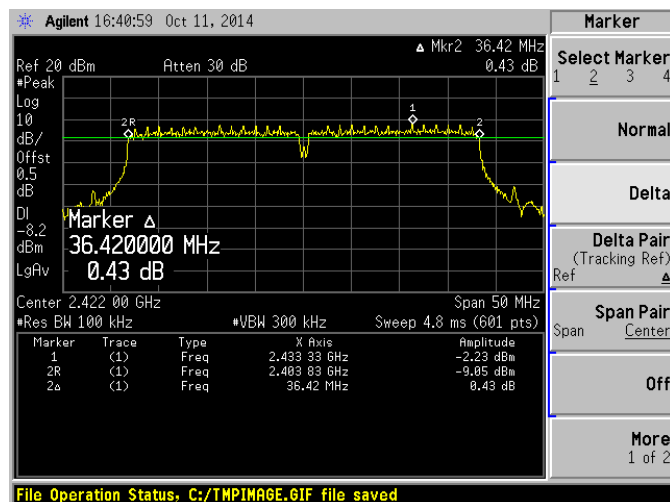
802.11 n-20MHz MID CHANNEL



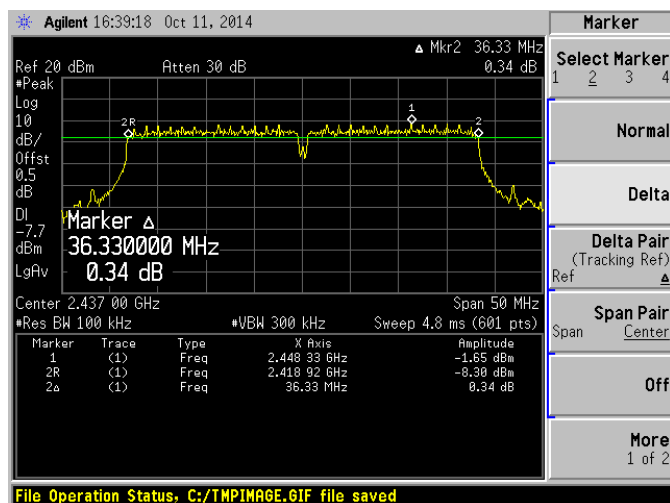
802.11n-20MHz HIGH CHANNEL



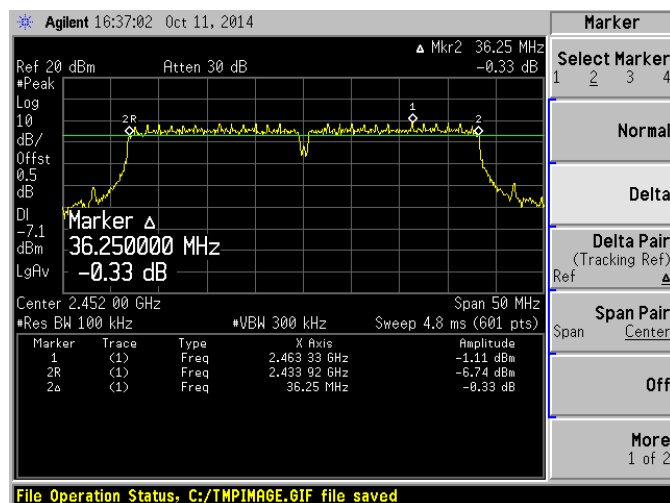
802.11n-40MHz LOW CHANNEL



802.11n-40MHz MID CHANNEL



802.11n-40MHz HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-45.25	4.41	-15.6	PASS
Middle	-40.61	4.22	-15.8	PASS
High	-40.35	6.42	-13.6	PASS

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-46.41	-0.95	-21.0	PASS
Middle	-47.71	0.19	-19.8	PASS
High	-50.51	1.82	-18.2	PASS

802.11n-20MHz Mode:

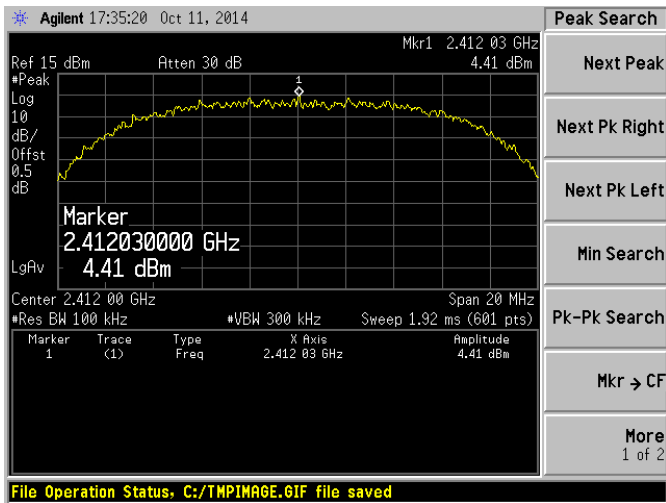
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-45.99	-0.71	-20.7	PASS
Middle	-47.37	0.27	19.7	PASS
High	-49.77	1.99	-18.0	PASS

802.11n-40MHz Mode:

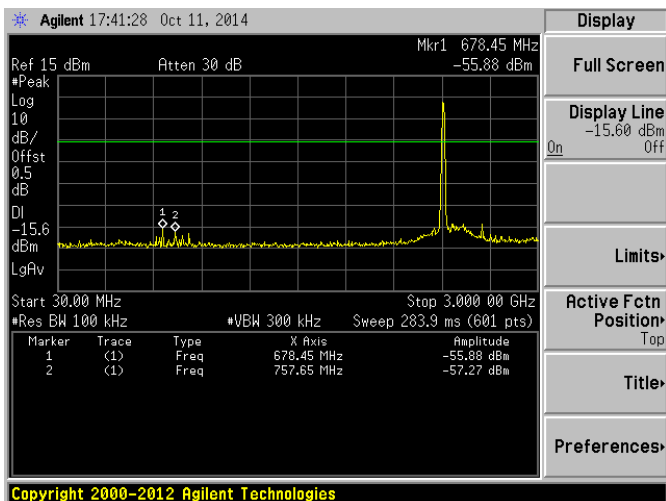
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-46.49	-2.65	-22.6	PASS
Middle	-47.72	-1.98	-22.0	PASS
High	-48.76	-1.46	-21.5	PASS

Test Plots

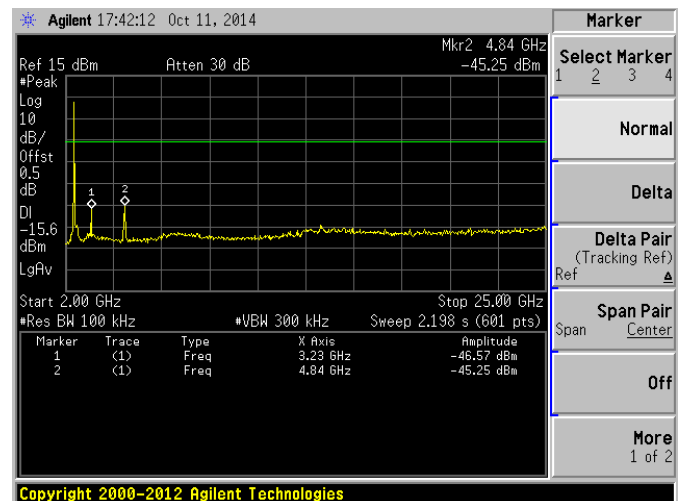
802.11b LOW CHANNEL CARRIER LEVEL



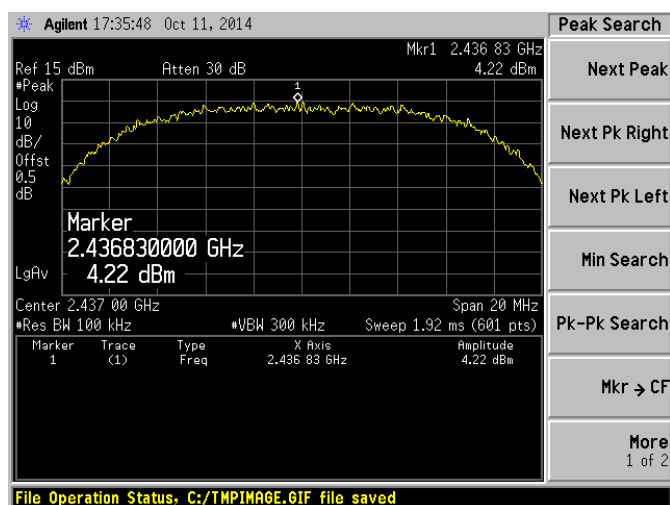
802.11b LOW CHANNEL, SPURIOUS 30MHz~3GHz



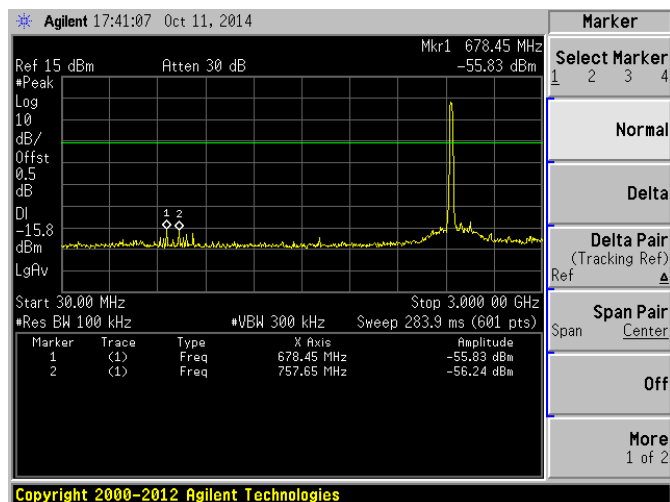
802.11b LOW CHANNEL, SPURIOUS 2GHz~25GHz



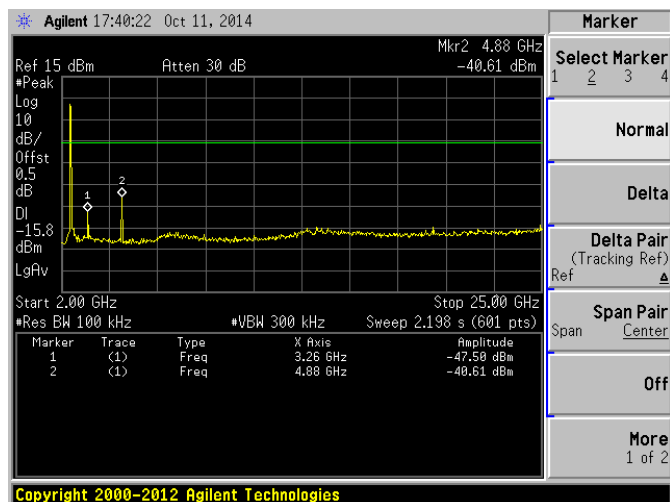
802.11b MID CHANNEL CARRIER LEVEL



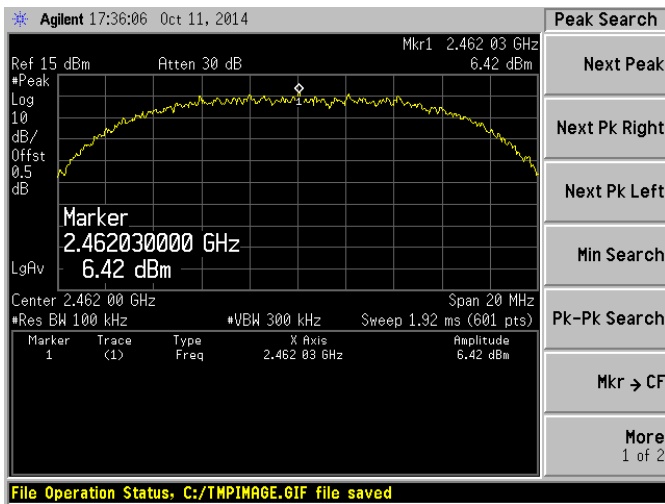
802.11b MID CHANNEL, SPURIOUS 30MHz~3GHz



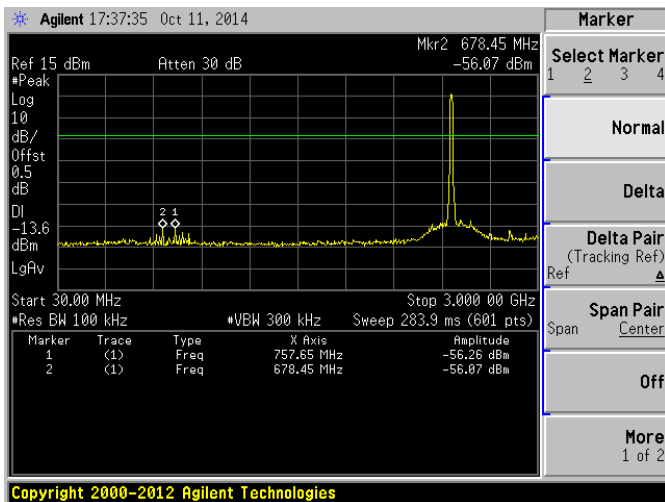
802.11b MID CHANNEL, SPURIOUS 2GHz~25GHz



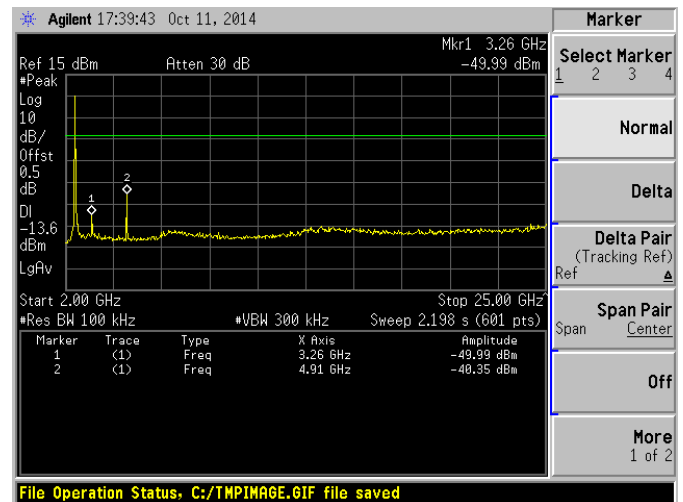
802.11b HIGH CHANNEL CARRIER LEVEL



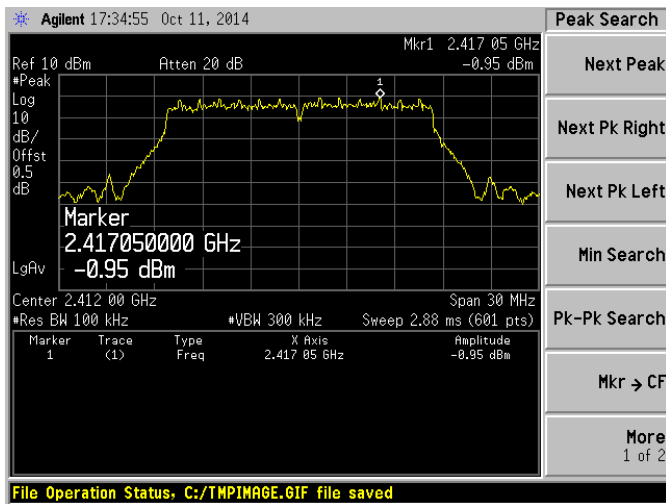
802.11b HIGH CHANNEL, SPURIOUS 30MHz~3GHz



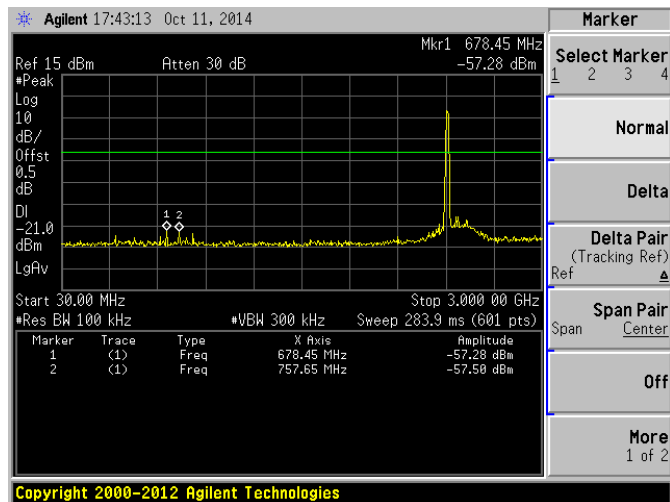
802.11b HIGH CHANNEL, SPURIOUS 2GHz~25GHz



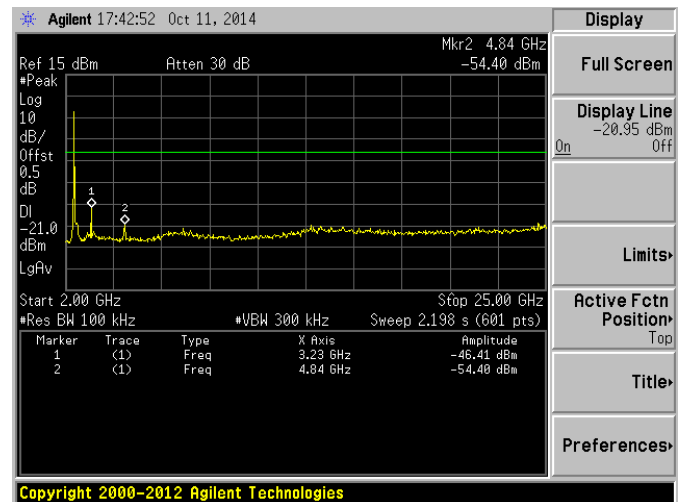
802.11g LOW CHANNEL CARRIER LEVEL



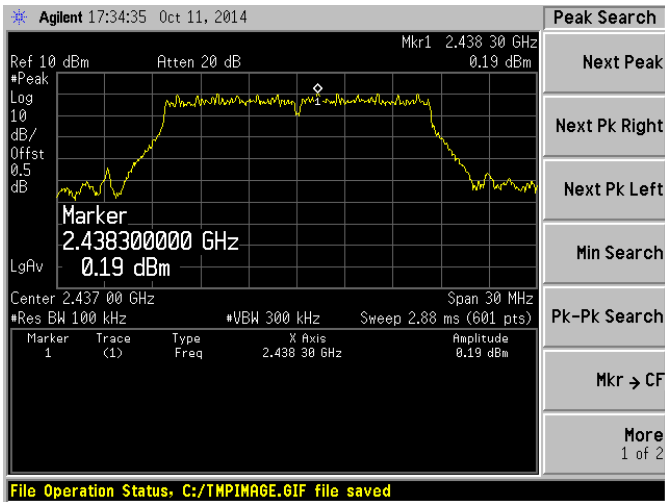
802.11g LOW CHANNEL, SPURIOUS 30MHz~3GHz



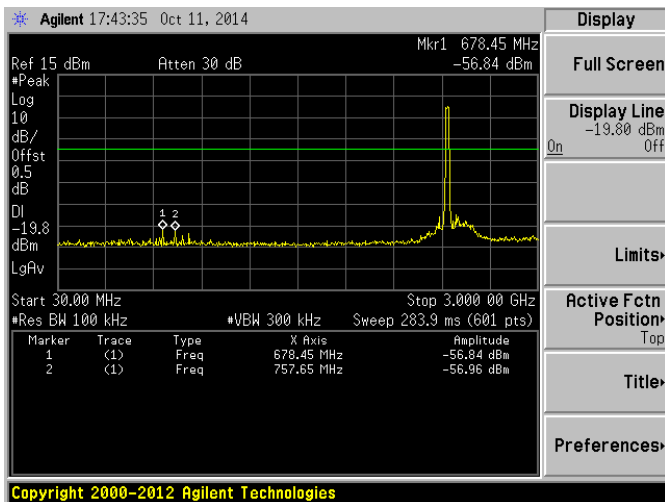
802.11g LOW CHANNEL, SPURIOUS 2GHz~25GHz



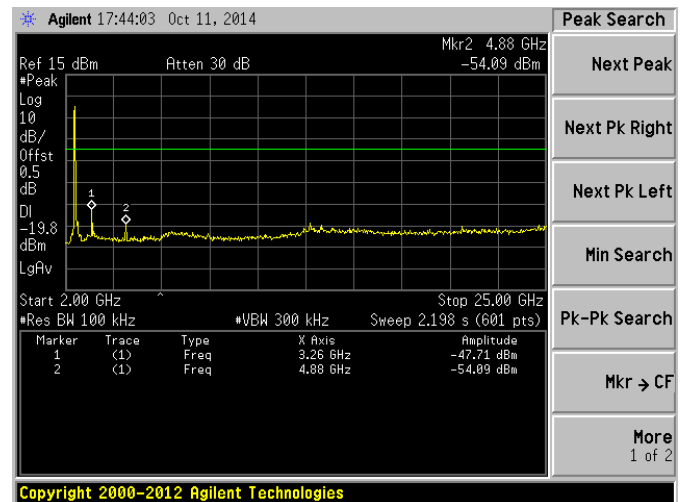
802.11g MID CHANNEL CARRIER LEVEL



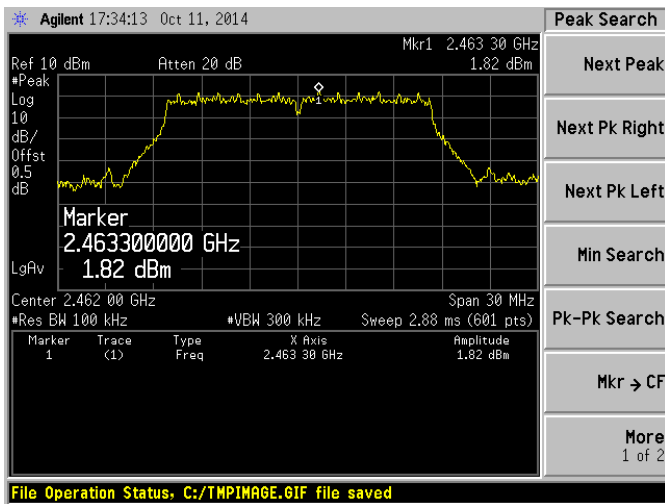
802.11g MID CHANNEL, SPURIOUS 30MHz~3GHz



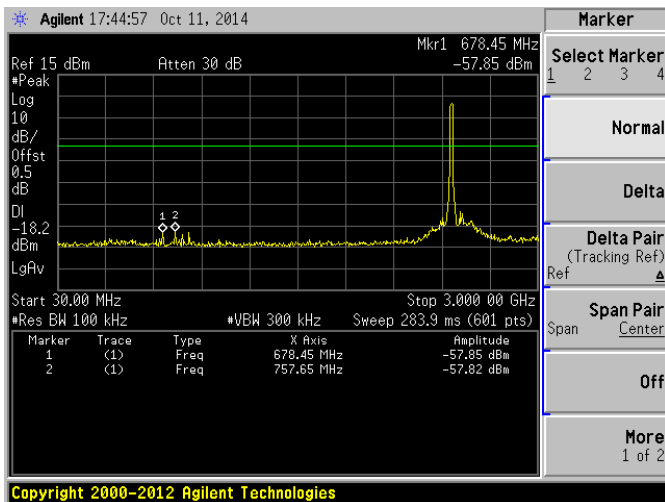
802.11g MID CHANNEL, SPURIOUS 2GHz~25GHz



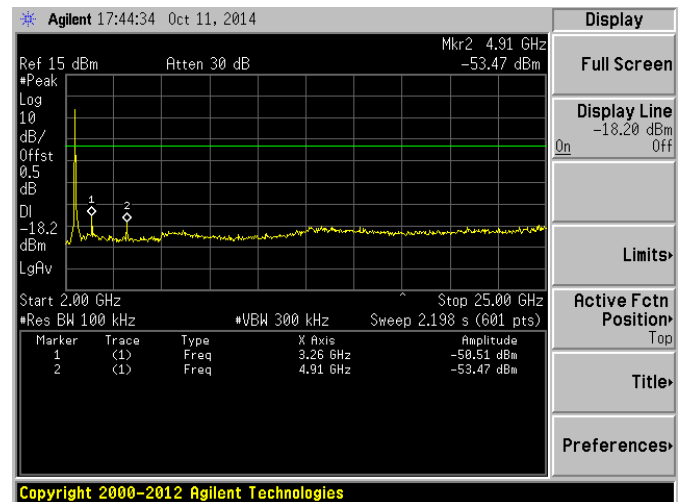
802.11g HIGH CHANNEL CARRIER LEVEL



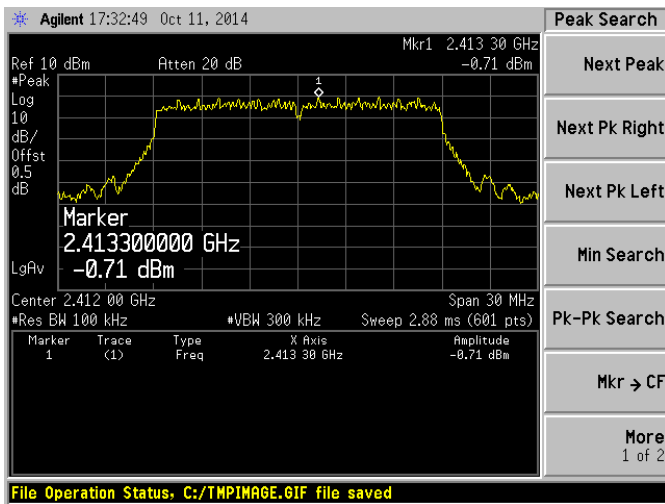
802.11g HIGH CHANNEL, SPURIOUS 30MHz~3GHz



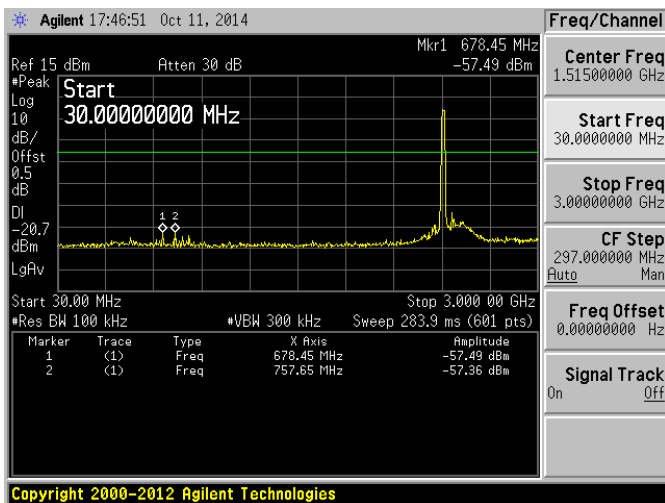
802.11g HIGH CHANNEL, SPURIOUS 2GHz~25GHz



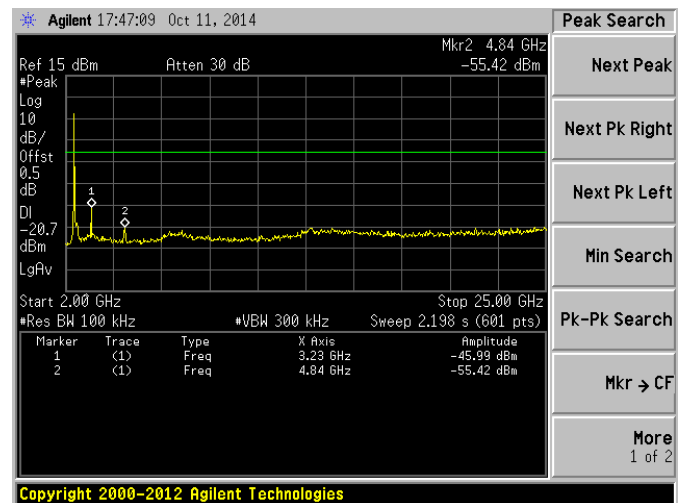
802.11n 20MHz LOW CHANNEL CARRIER LEVEL



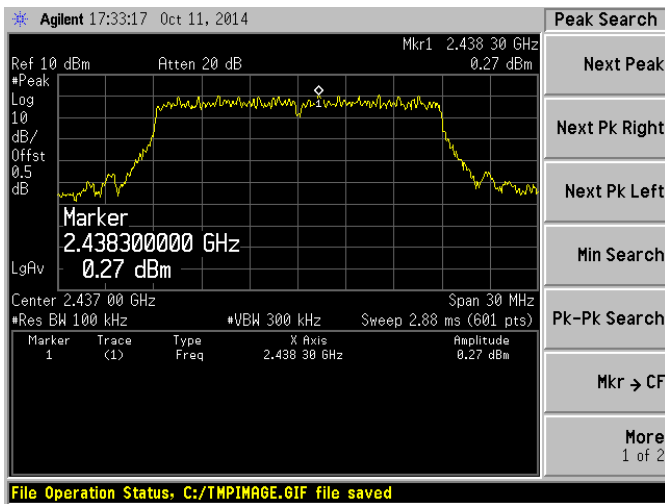
802.11n 20MHz LOW CHANNEL, SPURIOUS 30MHz~3GHz



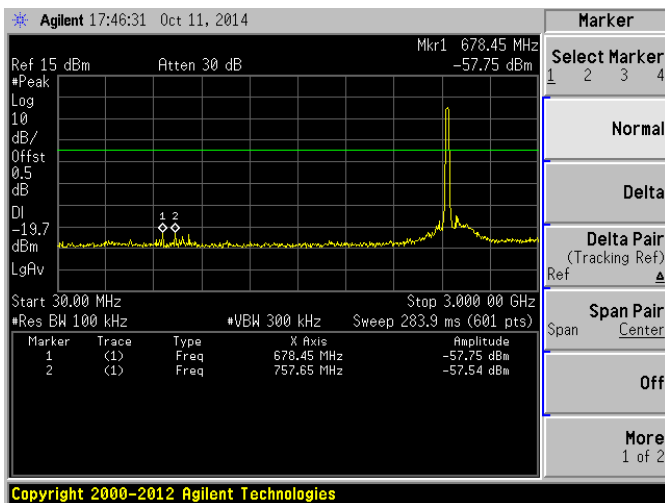
802.11n 20MHz LOW CHANNEL, SPURIOUS 2GHz~25GHz



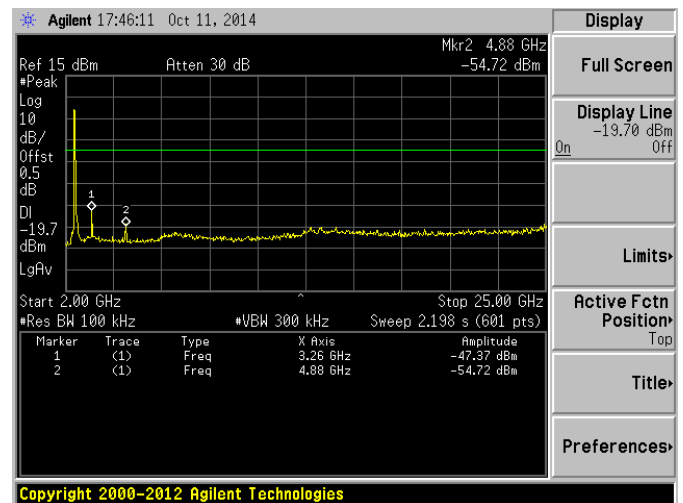
802.11n 20MHz MID CHANNEL CARRIER LEVEL



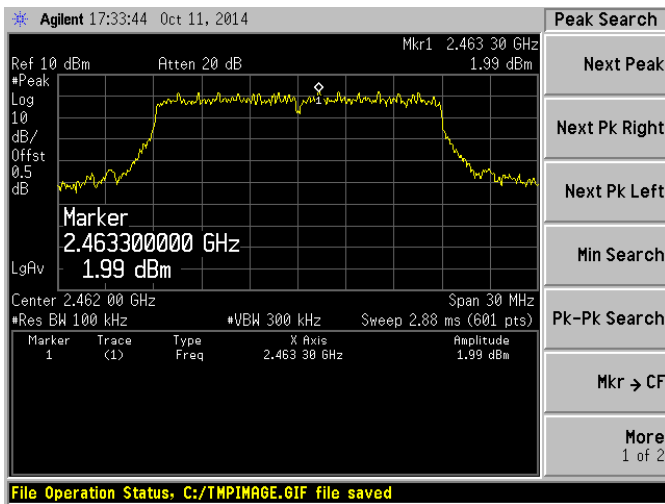
802.11n 20MHz MID CHANNEL, SPURIOUS 30MHz~3GHz



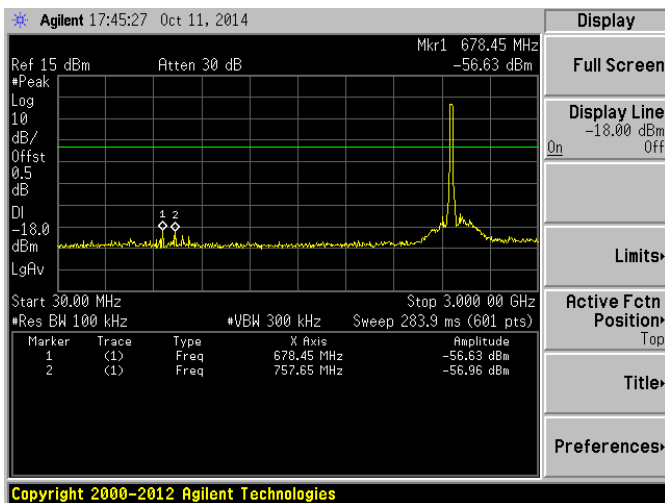
802.11n 20MHz MID CHANNEL, SPURIOUS 2GHz~25GHz



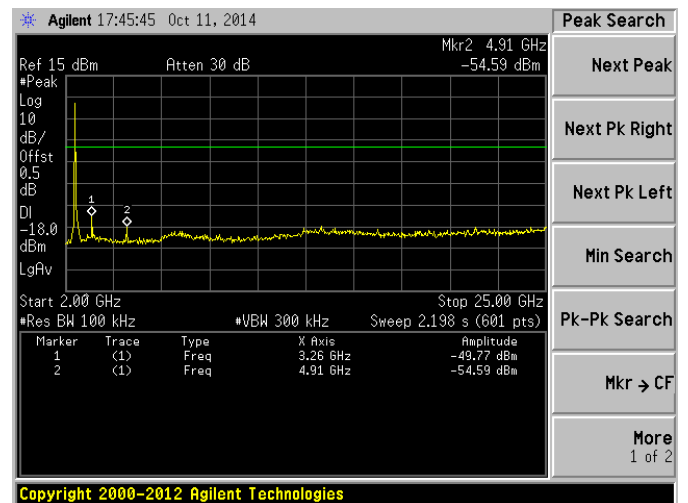
802.11n 20MHz HIGH CHANNEL CARRIER LEVEL



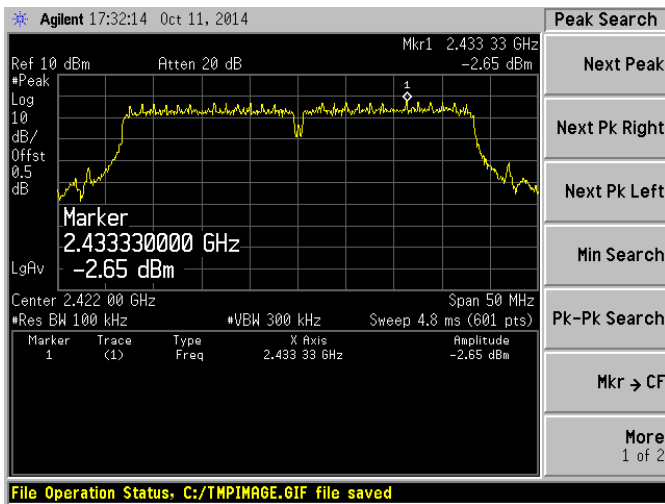
802.11n 20MHz HIGH CHANNEL, SPURIOUS 30MHz~3GHz



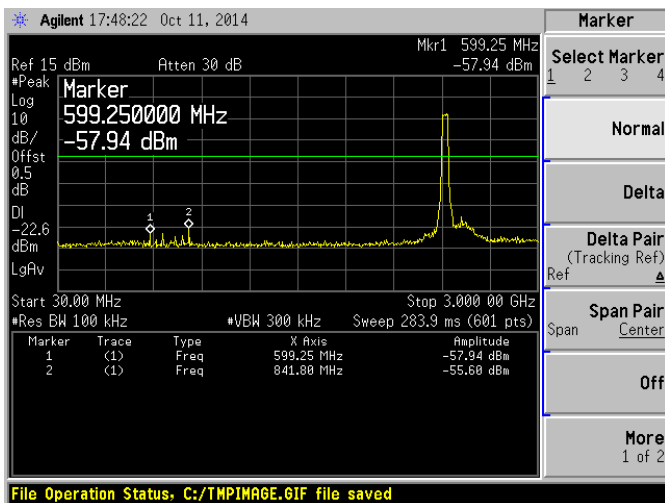
802.11n 20MHz HIGH CHANNEL, SPURIOUS 2GHz~25GHz



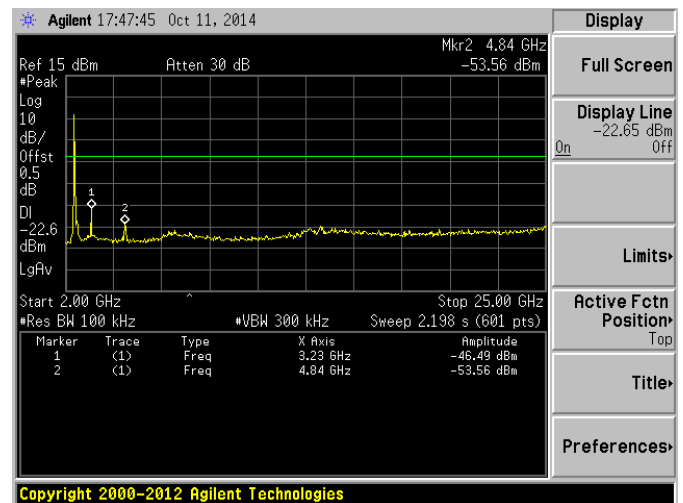
802.11n 40MHz LOW CHANNEL CARRIER LEVEL



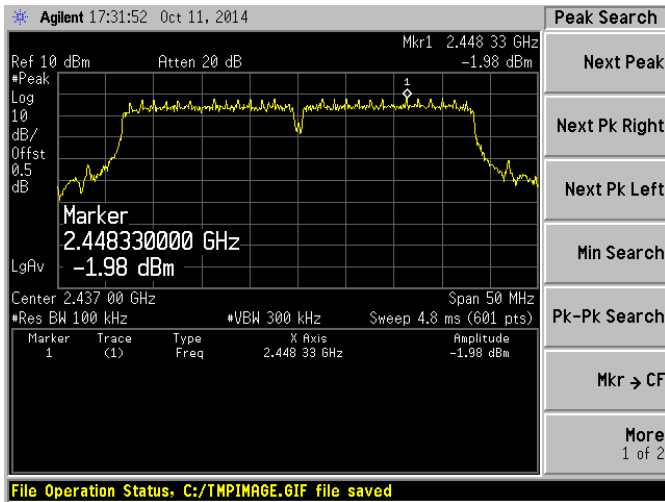
802.11n 40MHz LOW CHANNEL, SPURIOUS 30MHz~3GHz



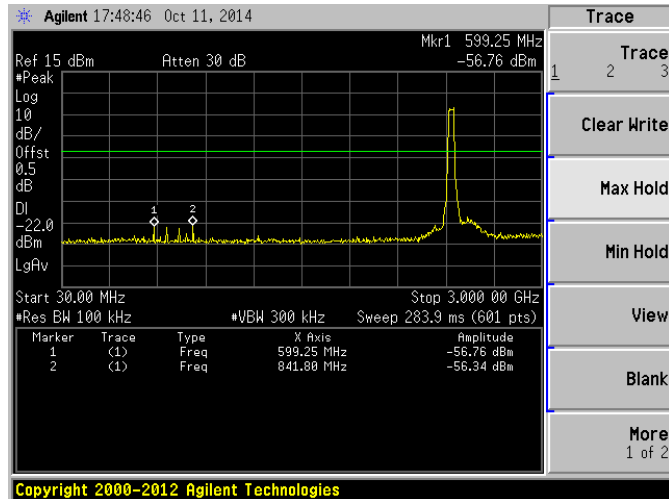
802.11n 40MHz LOW CHANNEL, SPURIOUS 2GHz~25GHz



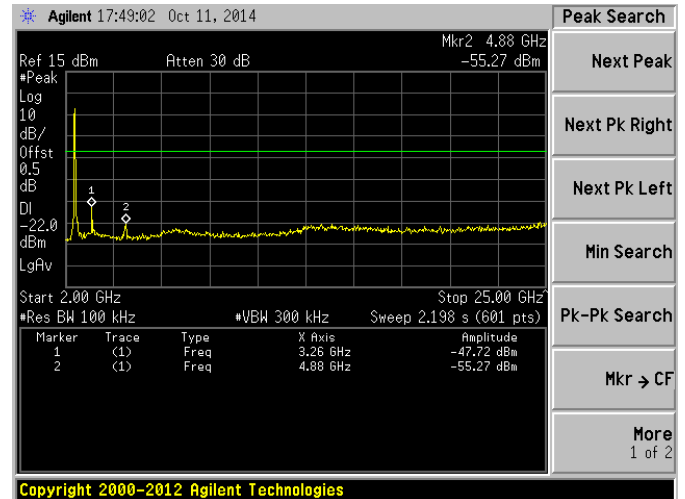
802.11n 40MHz MID CHANNEL CARRIER LEVEL



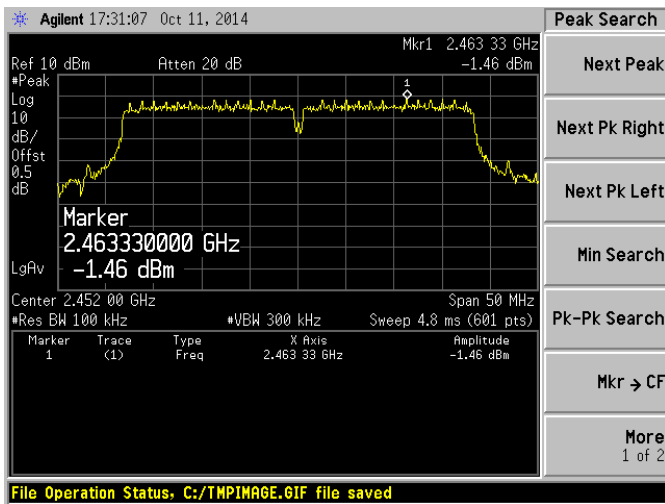
802.11n 40MHz MID CHANNEL, SPURIOUS 30MHz~3GHz



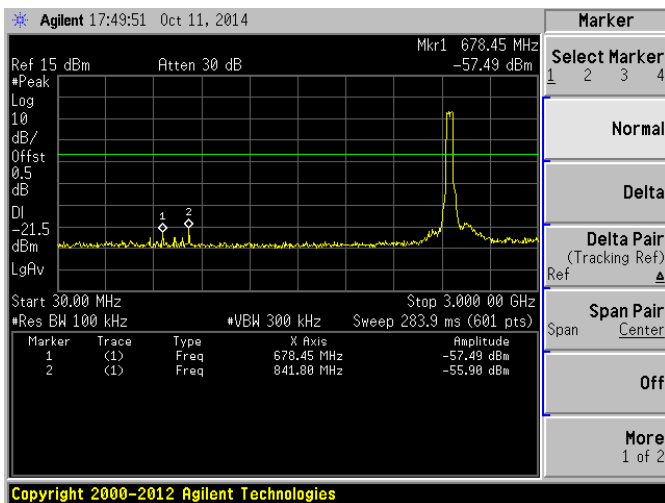
802.11n 40MHz MID CHANNEL, SPURIOUS 2GHz~25GHz



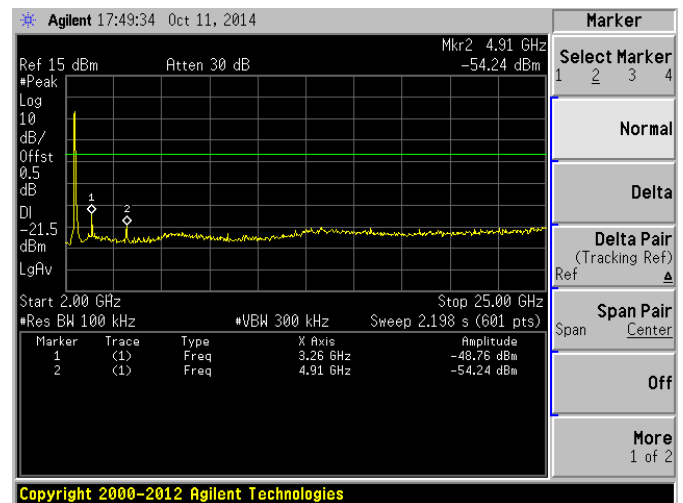
802.11n 40MHz HIGH CHANNEL CARRIER LEVEL



802.11n 40MHz HIGH CHANNEL, SPURIOUS 30MHz~3GHz



802.11n 40MHz HIGH CHANNEL, SPURIOUS 2GHz~25GHz

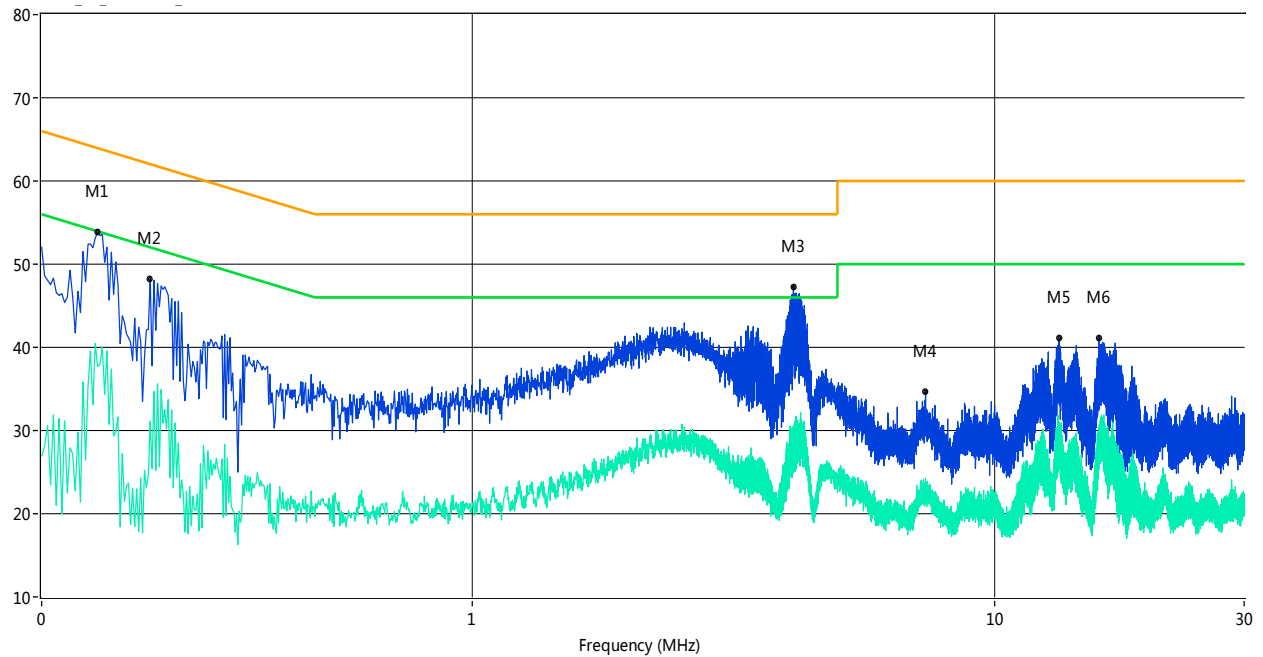


A.4 Conducted Emissions

Note: All configurations have been tested, only the worst configuration (802.11b High Channel) shown here.

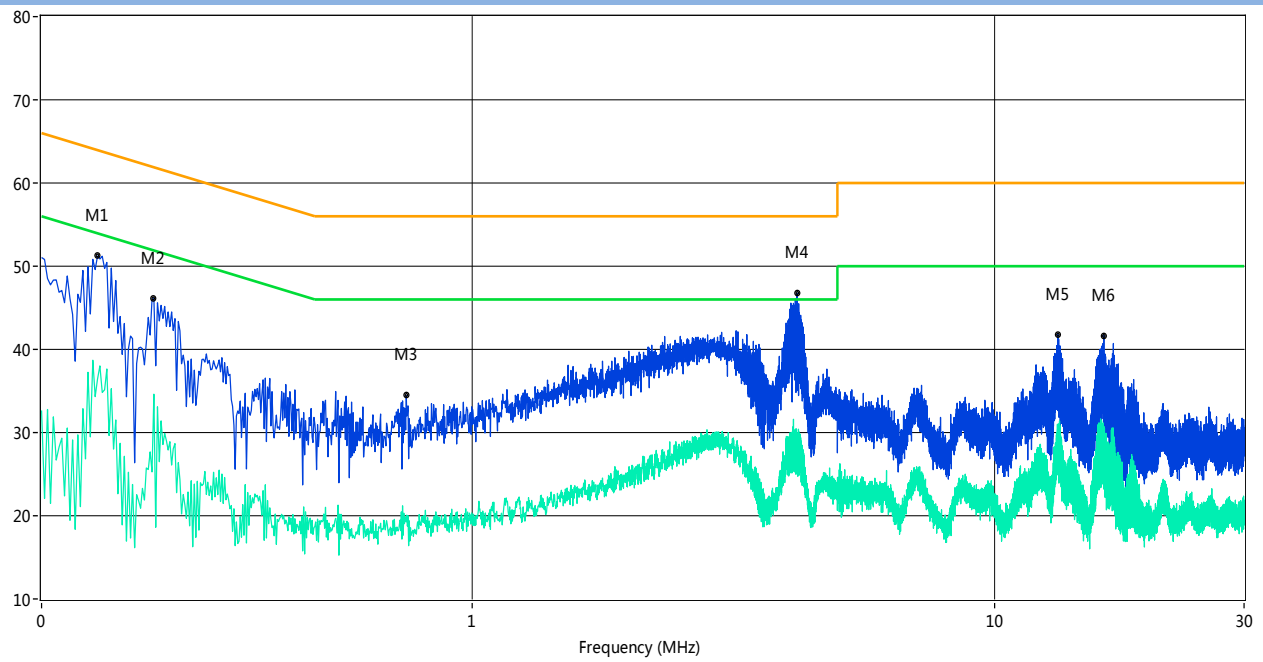
Test Data and Plots

802.11b HIGH CHANNEL PHASE L



Frequency (MHz)	Peak Level (dBuV)	Q-peak Level (dBuV)	Average Level (dBuV)	Factor (dB)	QP Limit (dBuV)	AV Limit (dBuV)	Margin (dB)	Line	Verdict
0.21	53.9		37.7	10.00	64.8	54.8	17.10	L Line	PASS
0.25	48.3		31.1	10.00	63.4	53.4	22.30	L Line	PASS
4.13	47.3		30.5	10.00	56.0	46.0	15.50	L Line	PASS
7.36	34.7		23.4	10.00	60.0	50.0	26.60	L Line	PASS
13.25	41.1		30.9	10.00	60.0	50.0	19.10	L Line	PASS
15.84	41.1		28.7	10.00	60.0	50.0	21.30	L Line	PASS

802.11b HIGH CHANNEL PHASE N



Frequency (MHz)	Peak Level (dBuV)	Q-peak Level (dBuV)	Average Level (dBuV)	Factor (dB)	QP Limit (dBuV)	AV Limit (dBuV)	Margin (dB)	Line	Verdict
0.21	51.2		36.4	10.00	64.8	54.8	18.40	N Line	PASS
0.22	46.1		34.6	10.00	63.3	53.3	18.70	N Line	PASS
0.74	34.5		19.3	10.00	56.0	46.0	26.70	N Line	PASS
4.20	46.8		30.0	10.00	56.0	46.0	16.00	N Line	PASS
13.21	41.8		30.5	10.00	60.0	50.0	19.50	N Line	PASS
16.20	41.7		30.7	10.00	60.0	50.0	19.30	N Line	PASS

A.5 Radiated Emission

Note 1: The symbol of “--” in the table which means not application.

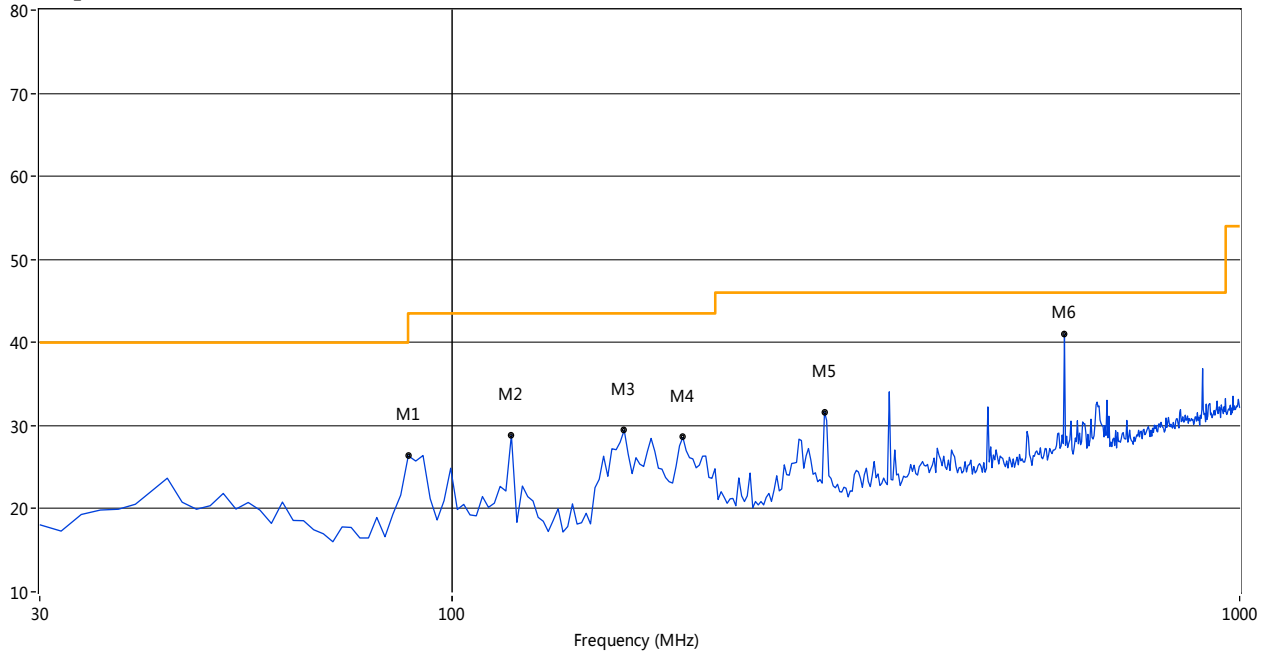
Note 2: For the test data above 1GHz, According the ANSI C63.4-2009, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Note 4: All configurations have been tested, only the worst configuration (802.11g High Channel) shown here.

802.11g HIGH CHANNEL 30MHz to 1GHz, ANT V

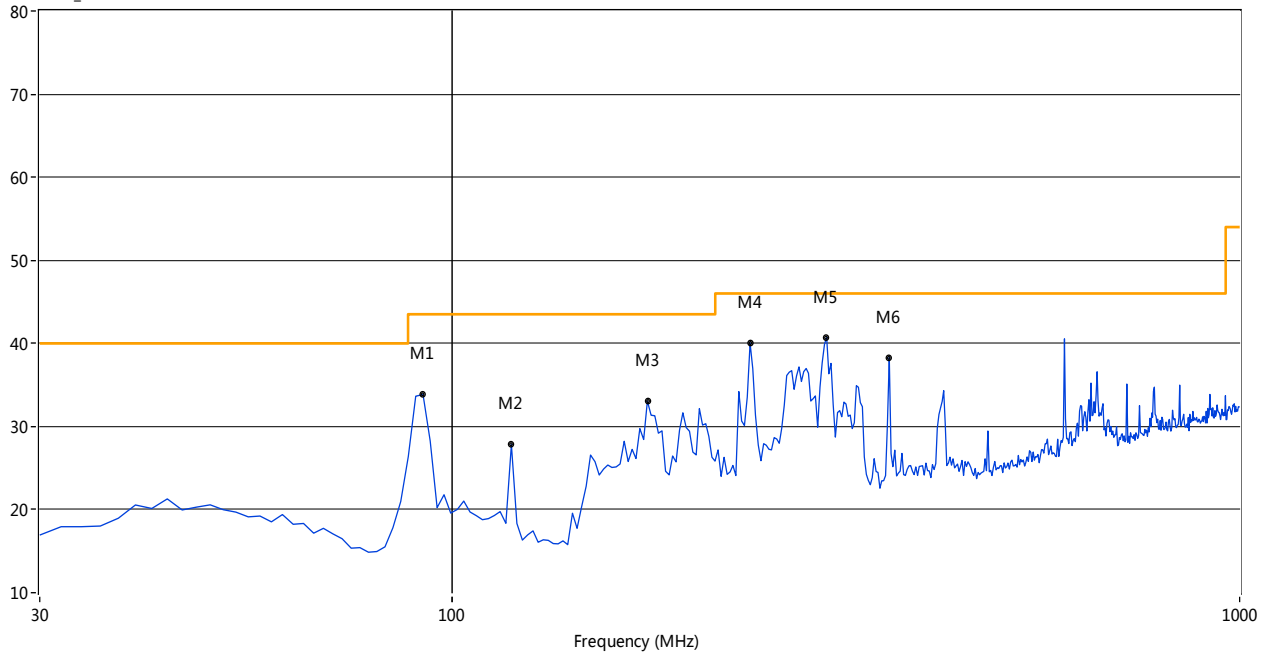
RE Test case_FCC 15C 30MHz-1GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
88.08	26.37			-22.01	--	43.5	--	17.13	85.10	100	Vertical	PASS
119.06	28.88			-21.19	--	43.5	--	14.62	104.70	100	Vertical	PASS
165.53	29.45			-22.32	--	43.5	--	14.05	252.50	100	Vertical	PASS
196.51	28.60			-20.14	--	43.5	--	14.90	135.50	100	Vertical	PASS
297.19	31.65			-17.33	--	46.0	--	14.35	11.30	100	Vertical	PASS
599.22	40.99			-10.24	--	46.0	--	5.01	217.50	100	Vertical	PASS

802.11g HIGH CHANNEL 30MHz to 1GHz, ANT H

RE Test case_FCC 15C 30MHz-1GHz



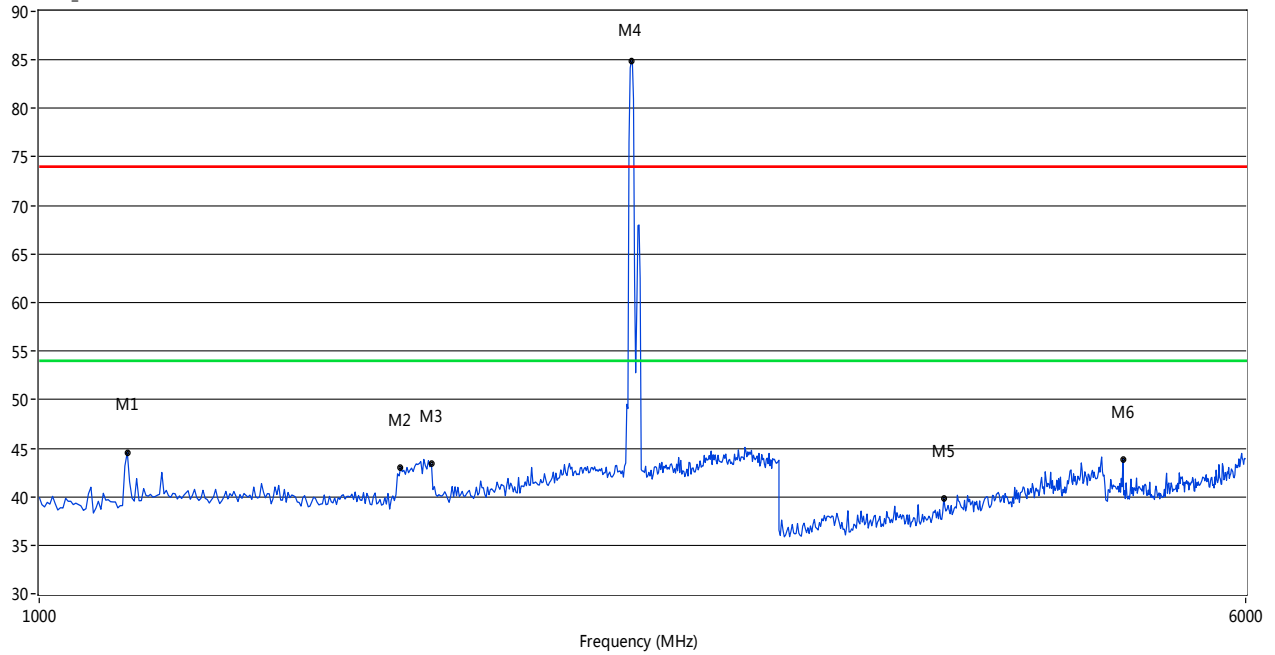
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
91.96	33.84			-21.01	--	43.5	--	9.66	56.40	100	Horizontal	PASS
119.06	27.82			-21.19	--	43.5	--	15.68	48.70	100	Horizontal	PASS
177.15	33.06			-21.77	--	43.5	--	10.44	264.40	100	Horizontal	PASS
239.10	40.03			-18.73	--	46.0	--	5.97	83.20	100	Horizontal	PASS
299.12	40.72			-17.32	--	46.0	--	5.28	276.10	100	Horizontal	PASS
359.14	38.31			-15.62	--	46.0	--	7.69	346.10	100	Horizontal	PASS

Note: The marked spikes near 2400MHz with circle should be ignored because they are Fundamental signal.

Test Data and Plots

802.11b LOW CHANNEL 1GHz to 6GHz, ANT V

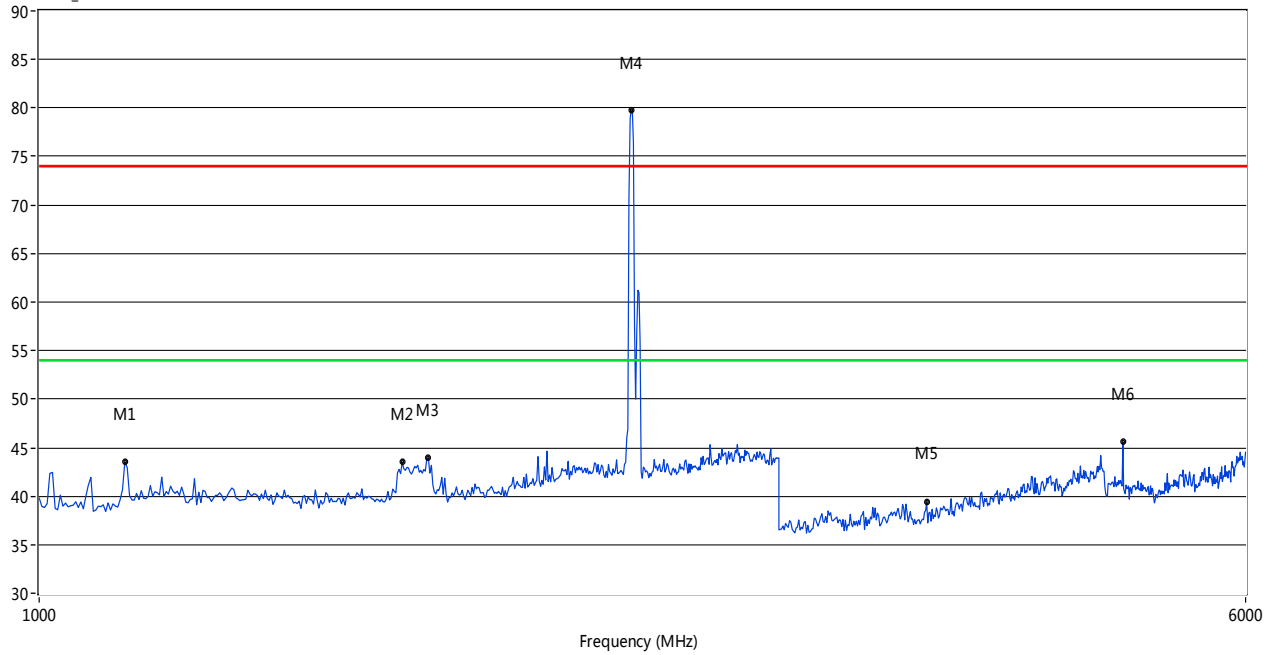
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	44.57			-4.40	74.0	--	54.0	9.43	358.50	100	Vertical	PASS
1710.58	43.01			-0.36	74.0	--	54.0	10.99	55.30	100	Vertical	PASS
1790.42	43.37			-0.24	74.0	--	54.0	10.63	293.70	100	Vertical	PASS
2409.18	84.90			0.11	74.0	--	54.0	-30.90	343.40	100	Vertical	N/A
3832.34	39.84			9.83	74.0	--	54.0	14.16	99.40	100	Vertical	PASS
5000.00	43.85			12.82	74.0	--	54.0	10.15	175.30	100	Vertical	PASS

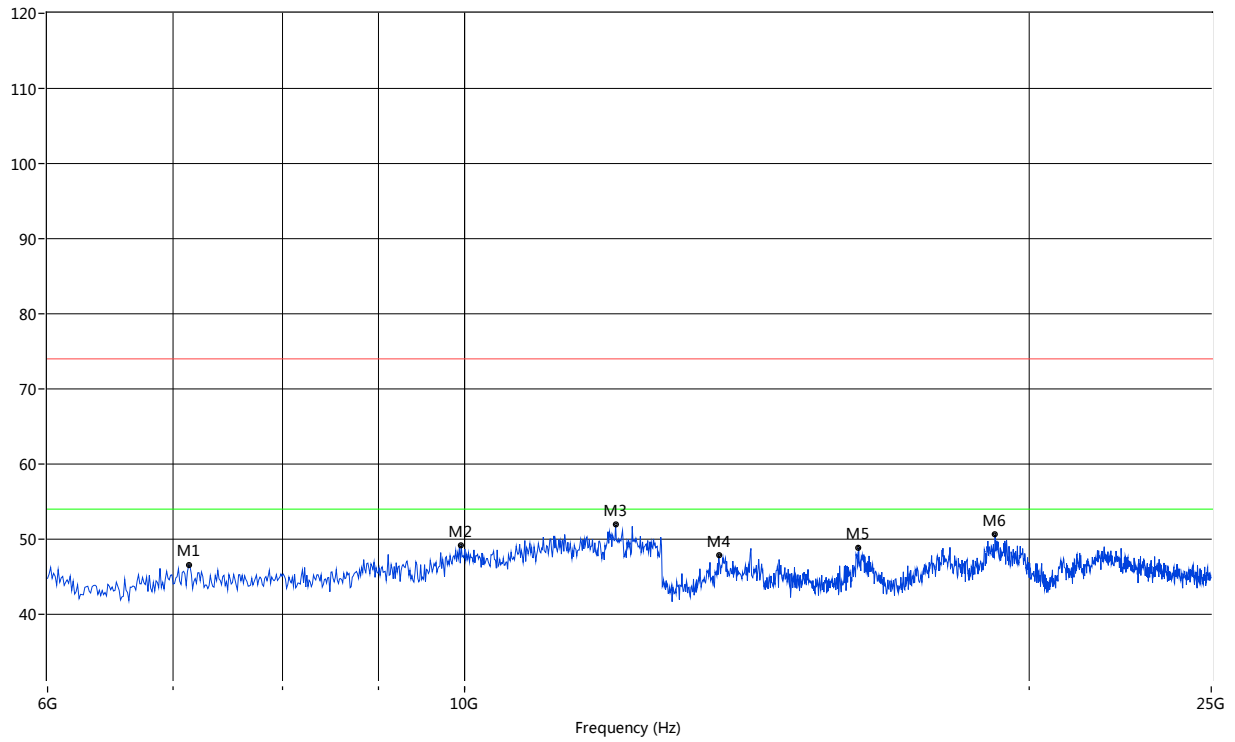
802.11b LOW CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



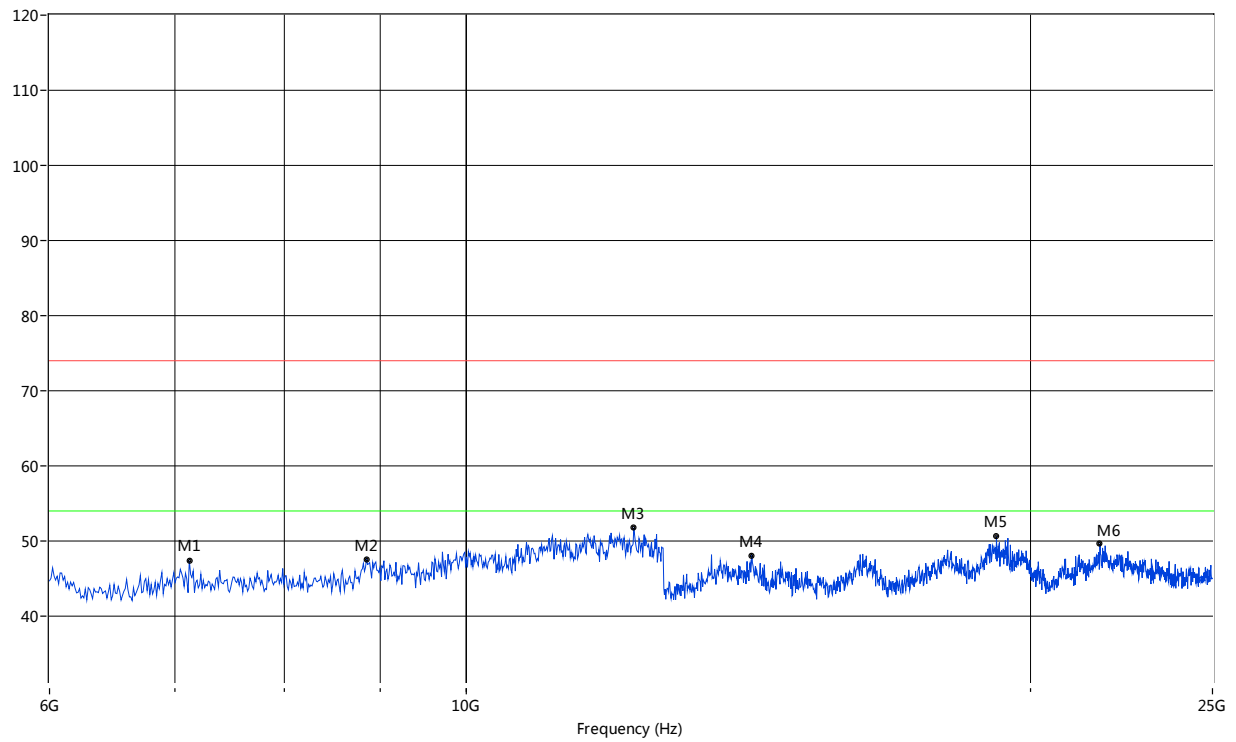
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1135.73	43.51			-4.50	74.0	--	54.0	10.49	358.40	100	Horizontal	PASS
1714.57	43.52			-0.34	74.0	--	54.0	10.48	343.00	100	Horizontal	PASS
1782.44	43.94			-0.24	74.0	--	54.0	10.06	137.80	100	Horizontal	PASS
2409.18	79.80			0.11	74.0	--	54.0	-25.80	343.00	100	Horizontal	N/A
3736.53	39.33			8.95	74.0	--	54.0	14.67	342.30	100	Horizontal	PASS
5000.00	45.60			12.82	74.0	--	54.0	8.40	346.80	100	Horizontal	PASS

802.11b LOW CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7134.36	46.55	--	--	74.0	--	54.0	27.45	204	100	Vertical	PASS
9964.64	49.21	--	--	74.0	--	54.0	24.79	28	100	Vertical	PASS
12042.43	51.92	--	--	74.0	--	54.0	22.08	31	100	Vertical	PASS
13665.14	47.91	--	--	74.0	--	54.0	26.09	71	100	Vertical	PASS
16223.38	48.87	--	--	74.0	--	54.0	25.13	25	100	Vertical	PASS
19179.70	50.61	--	--	74.0	--	54.0	23.39	303	100	Vertical	PASS

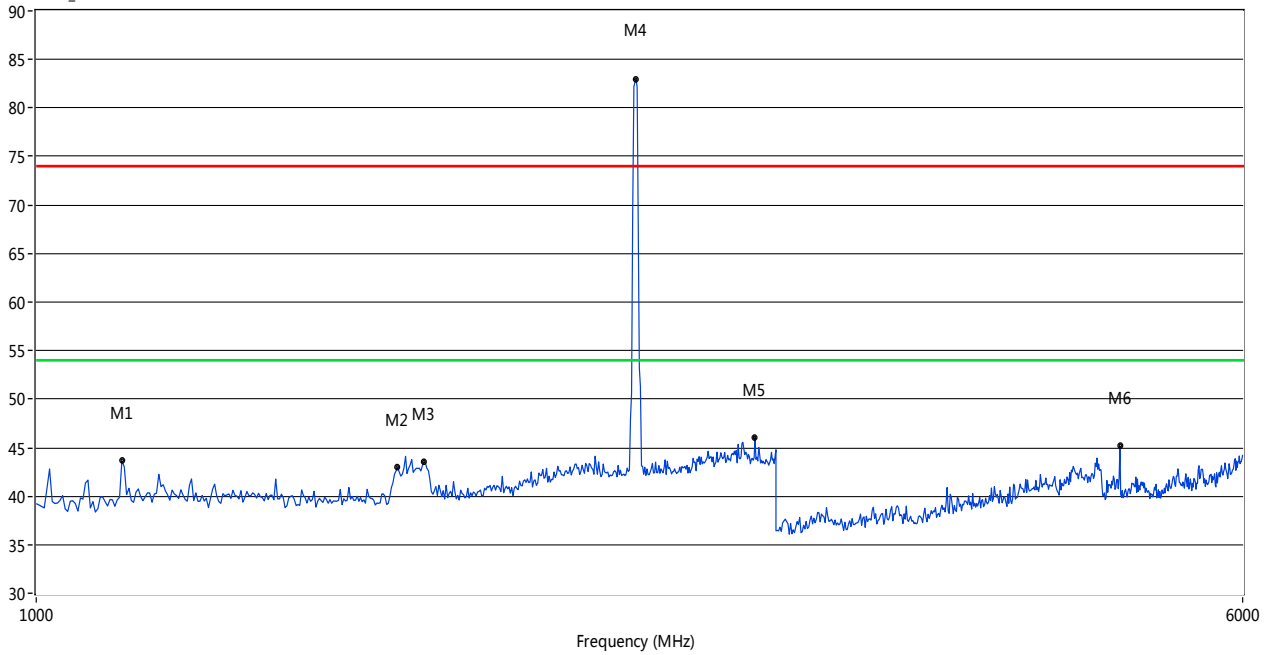
802.11b LOW CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	47.37	--	--	74.0	--	54.0	26.63	55	100	Horizontal	PASS
8852.75	47.57	--	--	74.0	--	54.0	26.43	334	100	Horizontal	PASS
12289.52	51.77	--	--	74.0	--	54.0	22.23	238	100	Horizontal	PASS
14205.91	48.10	--	--	74.0	--	54.0	25.90	221	100	Horizontal	PASS
19179.70	50.63	--	--	74.0	--	54.0	23.37	320	100	Horizontal	PASS
21775.37	49.67	--	--	74.0	--	54.0	24.33	124	100	Horizontal	PASS

802.11b MID CHANNEL 1GHz to 6GHz, ANT V

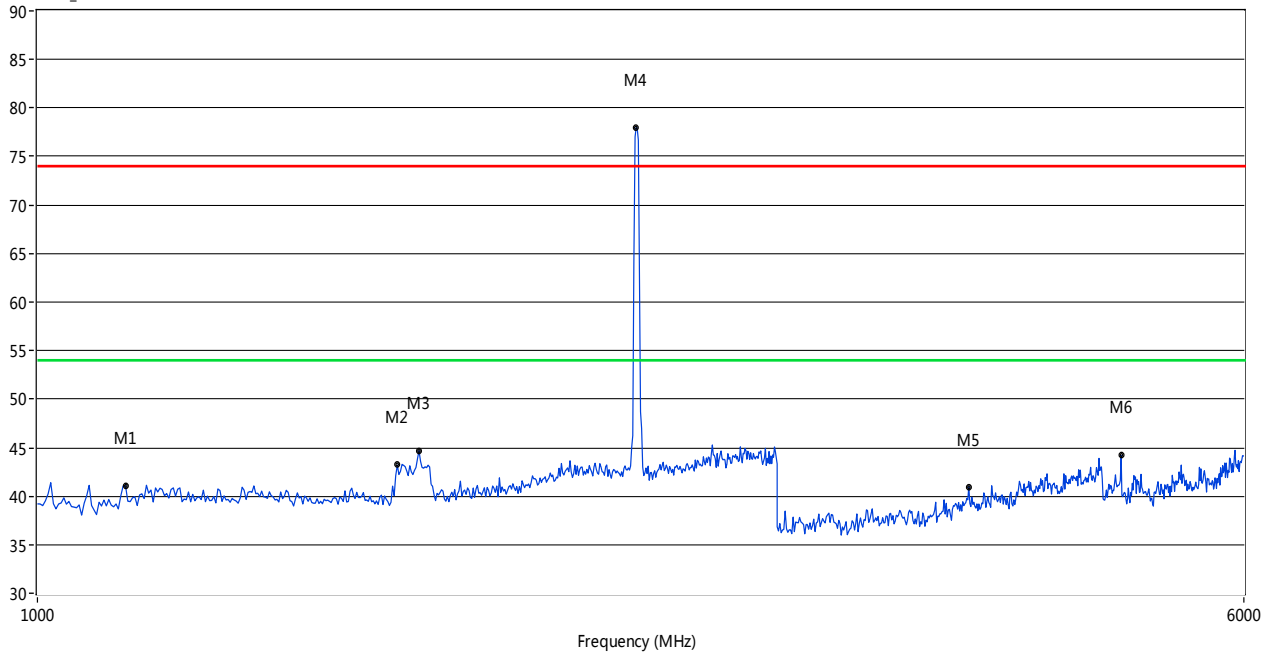
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1135.73	43.65			-4.50	74.0	--	54.0	10.35	355.70	100	Vertical	PASS
1710.58	42.95			-0.36	74.0	--	54.0	11.05	105.20	100	Vertical	PASS
1778.44	43.54			-0.23	74.0	--	54.0	10.46	305.20	100	Vertical	PASS
2437.13	83.00			0.12	74.0	--	54.0	-29.00	343.80	100	Vertical	N/A
2908.18	46.08			2.62	74.0	--	54.0	7.92	337.80	100	Vertical	PASS
5000.00	45.16			12.82	74.0	--	54.0	8.84	158.70	100	Vertical	PASS

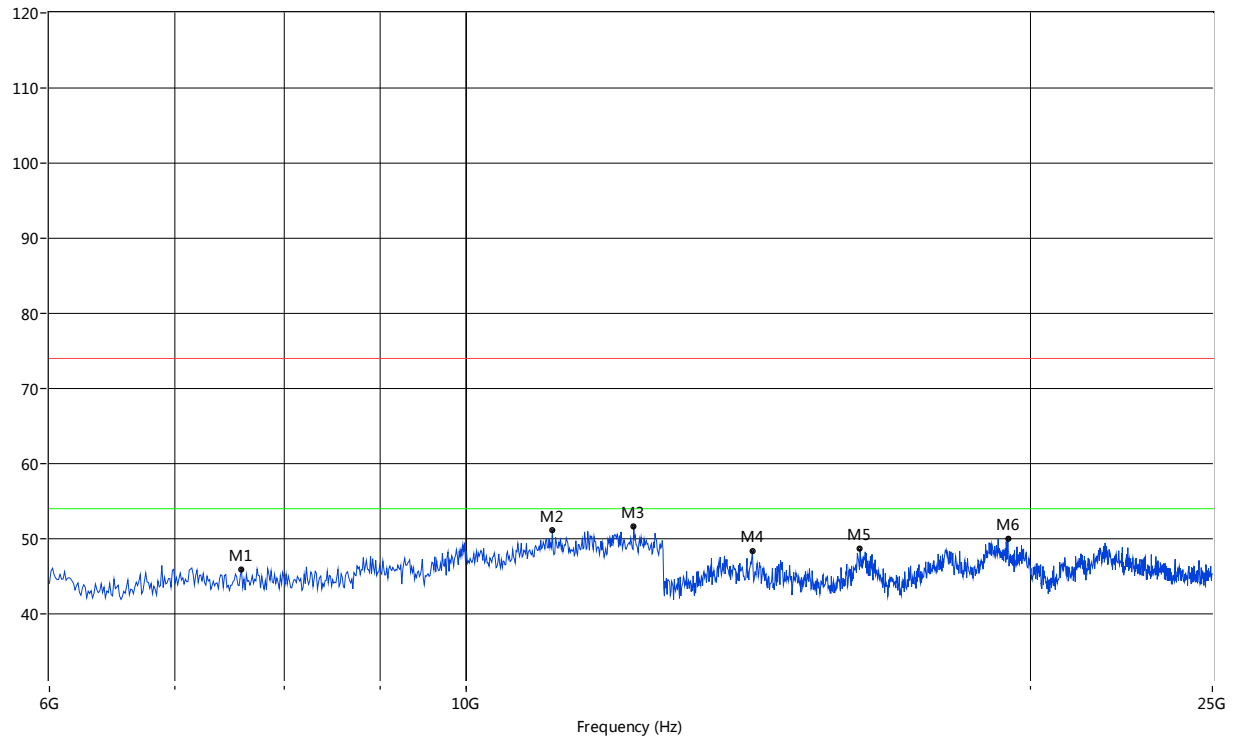
802.11b MID CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



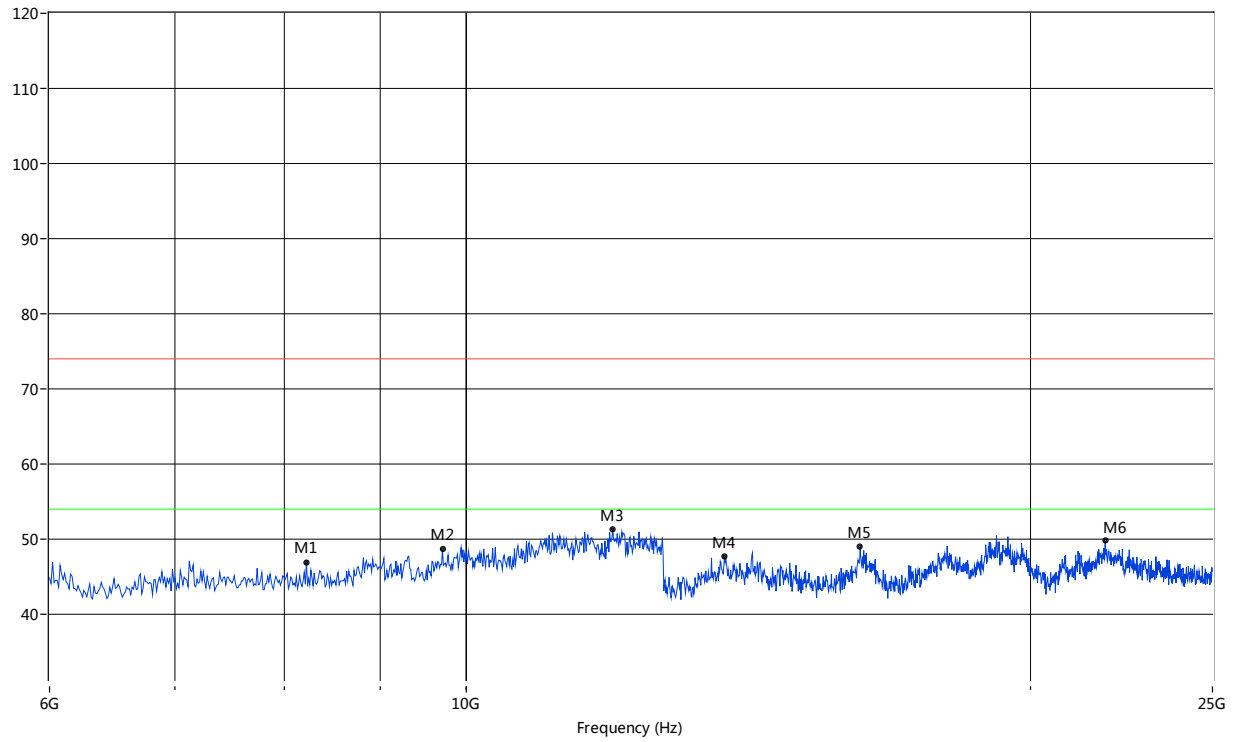
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	41.09			-4.40	74.0	--	54.0	12.91	348.70	100	Horizontal	PASS
1706.59	43.20			-0.37	74.0	--	54.0	10.80	304.60	100	Horizontal	PASS
1762.48	44.68			-0.23	74.0	--	54.0	9.32	65.00	100	Horizontal	PASS
2433.13	78.01			0.03	74.0	--	54.0	-24.01	14.80	100	Horizontal	N/A
3988.02	40.97			10.16	74.0	--	54.0	13.03	140.50	100	Horizontal	PASS
5000.00	44.18			12.82	74.0	--	54.0	9.82	158.10	100	Horizontal	PASS

802.11b MID CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7594.84	45.83	--	--	74.0	--	54.0	28.17	237	100	Vertical	PASS
11121.46	51.13	--	--	74.0	--	54.0	22.87	279	100	Vertical	PASS
12289.52	51.65	--	--	74.0	--	54.0	22.35	147	100	Vertical	PASS
14216.31	48.37	--	--	74.0	--	54.0	25.63	206	100	Vertical	PASS
16223.38	48.68	--	--	74.0	--	54.0	25.32	222	100	Vertical	PASS
19449.25	49.92	--	--	74.0	--	54.0	24.08	13	100	Vertical	PASS

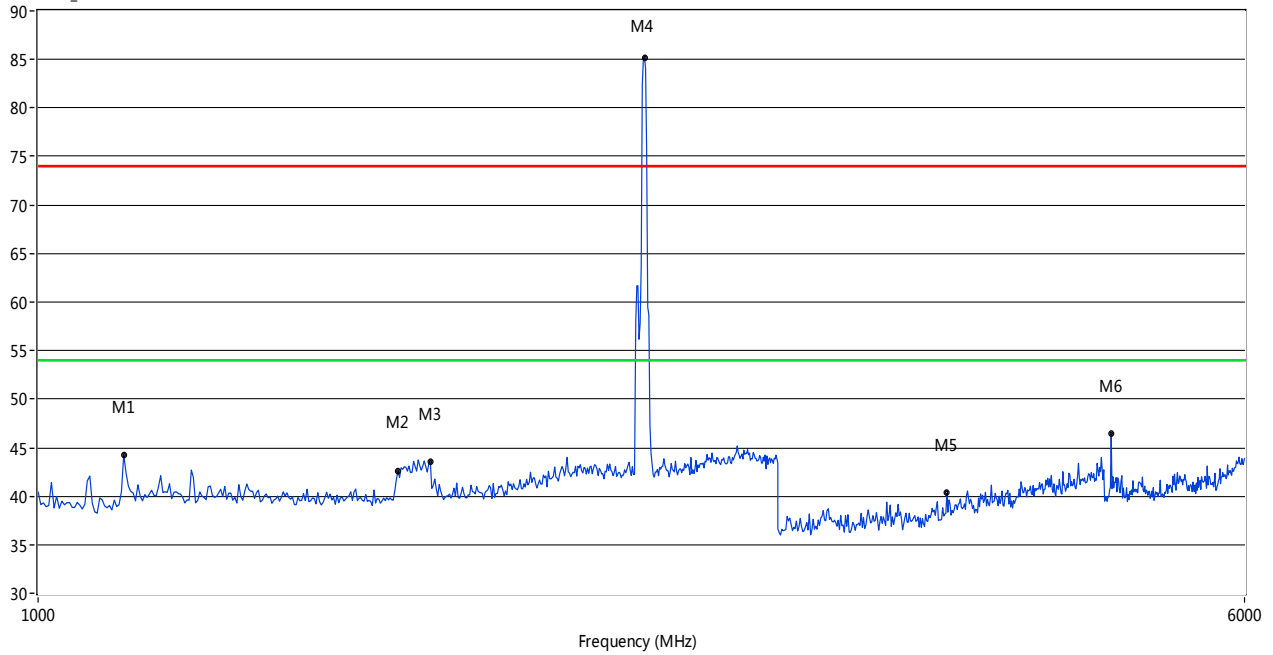
802.11b MID CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
8223.79	46.93	--	--	74.0	--	54.0	27.07	27	100	Horizontal	PASS
9717.55	48.70	--	--	74.0	--	54.0	25.30	26	100	Horizontal	PASS
11975.04	51.29	--	--	74.0	--	54.0	22.71	234	100	Horizontal	PASS
13737.94	47.73	--	--	74.0	--	54.0	26.27	24	100	Horizontal	PASS
16223.38	49.04	--	--	74.0	--	54.0	24.96	197	100	Horizontal	PASS
21915.14	49.79	--	--	74.0	--	54.0	24.21	299	100	Horizontal	PASS

802.11b HIGH CHANNEL 1GHz to 6GHz, ANT V

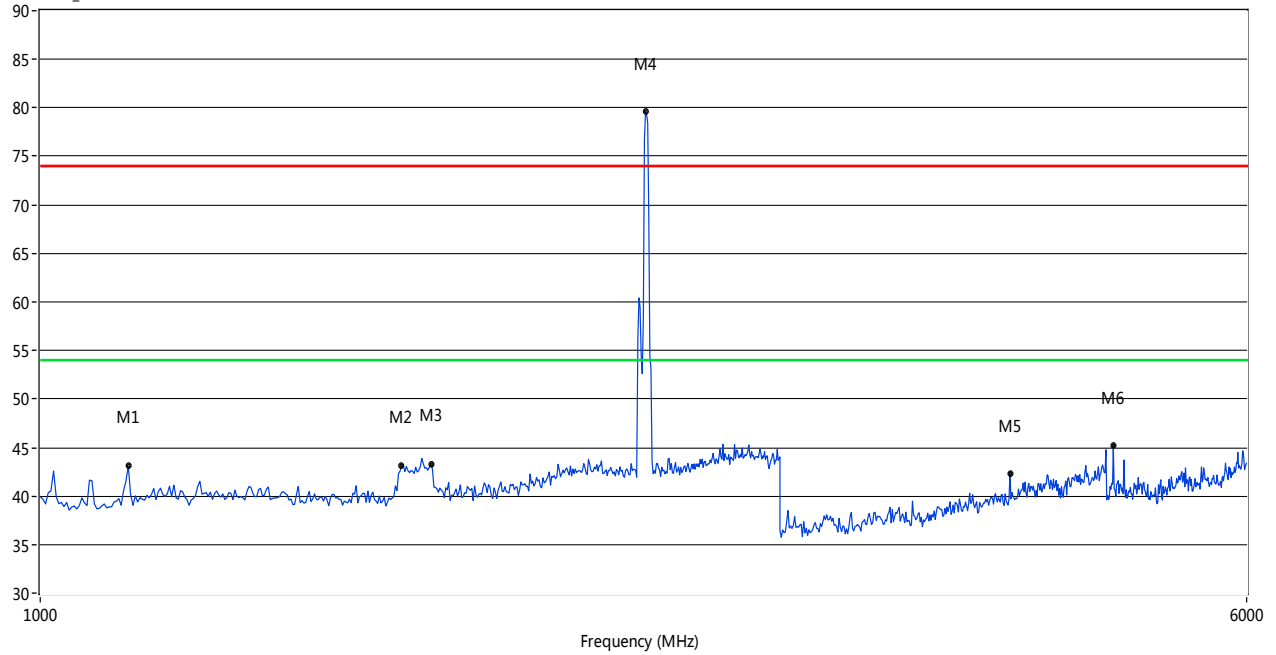
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1135.73	44.26			-4.50	74.0	--	54.0	9.74	299.30	100	Vertical	PASS
1706.59	42.57			-0.37	74.0	--	54.0	11.43	160.60	100	Vertical	PASS
1790.42	43.57			-0.24	74.0	--	54.0	10.43	277.40	100	Vertical	PASS
2461.08	85.21			0.05	74.0	--	54.0	-31.21	348.90	100	Vertical	N/A
3856.29	40.35			10.04	74.0	--	54.0	13.65	68.50	100	Vertical	PASS
4922.16	46.97			12.88	74.0	--	54.0	7.03	59.60	100	Vertical	PASS

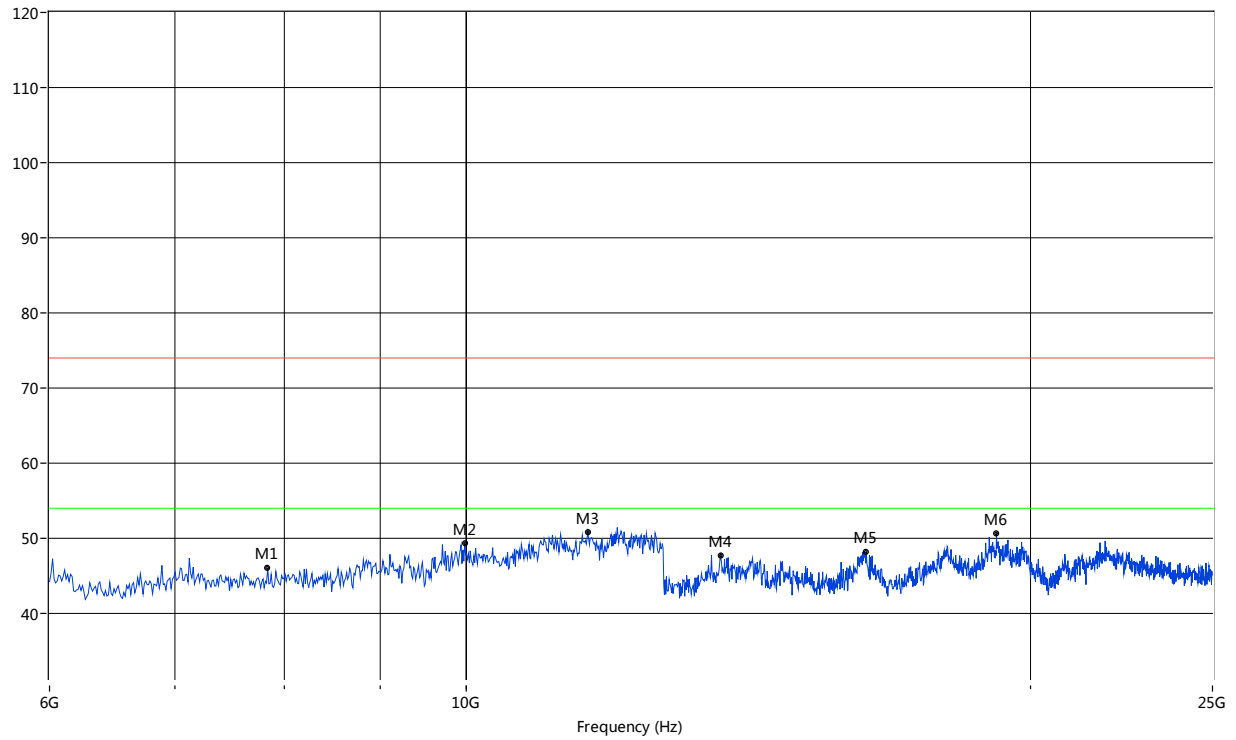
802.11b HIGH CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



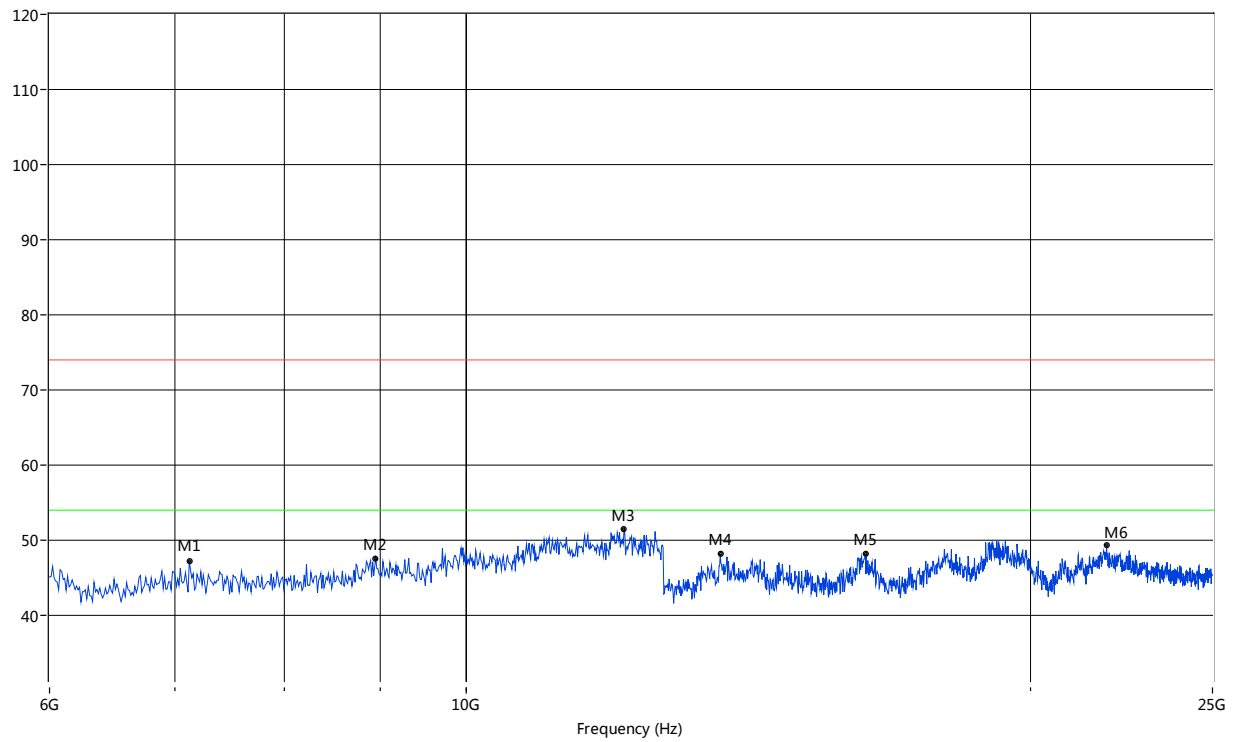
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	43.07			-4.40	74.0	--	54.0	10.93	359.10	100	Horizontal	PASS
1710.58	43.20			-0.36	74.0	--	54.0	10.80	248.70	100	Horizontal	PASS
1786.43	43.34			-0.24	74.0	--	54.0	10.66	55.90	100	Horizontal	PASS
2457.09	79.62			0.15	74.0	--	54.0	-25.62	17.00	100	Horizontal	N/A
4221.56	42.33			10.47	74.0	--	54.0	11.67	106.20	100	Horizontal	PASS
4922.16	45.22			12.88	74.0	--	54.0	8.78	132.40	100	Horizontal	PASS

802.11b HIGH CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7841.93	46.04	--	--	74.0	--	54.0	27.96	318	100	Vertical	PASS
9987.10	49.31	--	--	74.0	--	54.0	24.69	8	100	Vertical	PASS
11615.64	50.89	--	--	74.0	--	54.0	23.11	194	100	Vertical	PASS
13665.14	47.73	--	--	74.0	--	54.0	26.27	305	100	Vertical	PASS
16327.37	48.12	--	--	74.0	--	54.0	25.88	310	100	Vertical	PASS
19179.70	50.70	--	--	74.0	--	54.0	23.30	59	100	Vertical	PASS

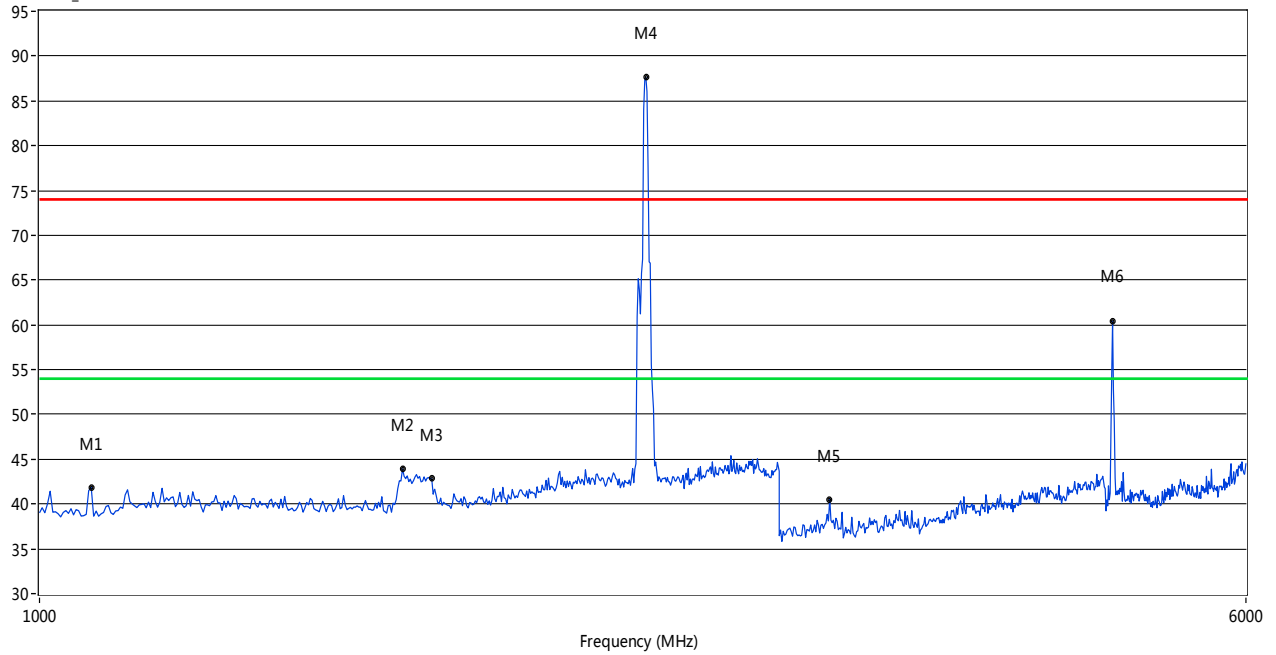
802.11b HIGH CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	47.23	--	--	74.0	--	54.0	26.77	7	100	Horizontal	PASS
8953.83	47.58	--	--	74.0	--	54.0	26.42	322	100	Horizontal	PASS
12143.51	51.49	--	--	74.0	--	54.0	22.51	131	100	Horizontal	PASS
13665.14	48.16	--	--	74.0	--	54.0	25.84	320	100	Horizontal	PASS
16327.37	48.20	--	--	74.0	--	54.0	25.80	8	100	Horizontal	PASS
21955.08	49.29	--	--	74.0	--	54.0	24.71	135	100	Horizontal	PASS

802.11g LOW CHANNEL 1GHz to 6GHz, ANT V

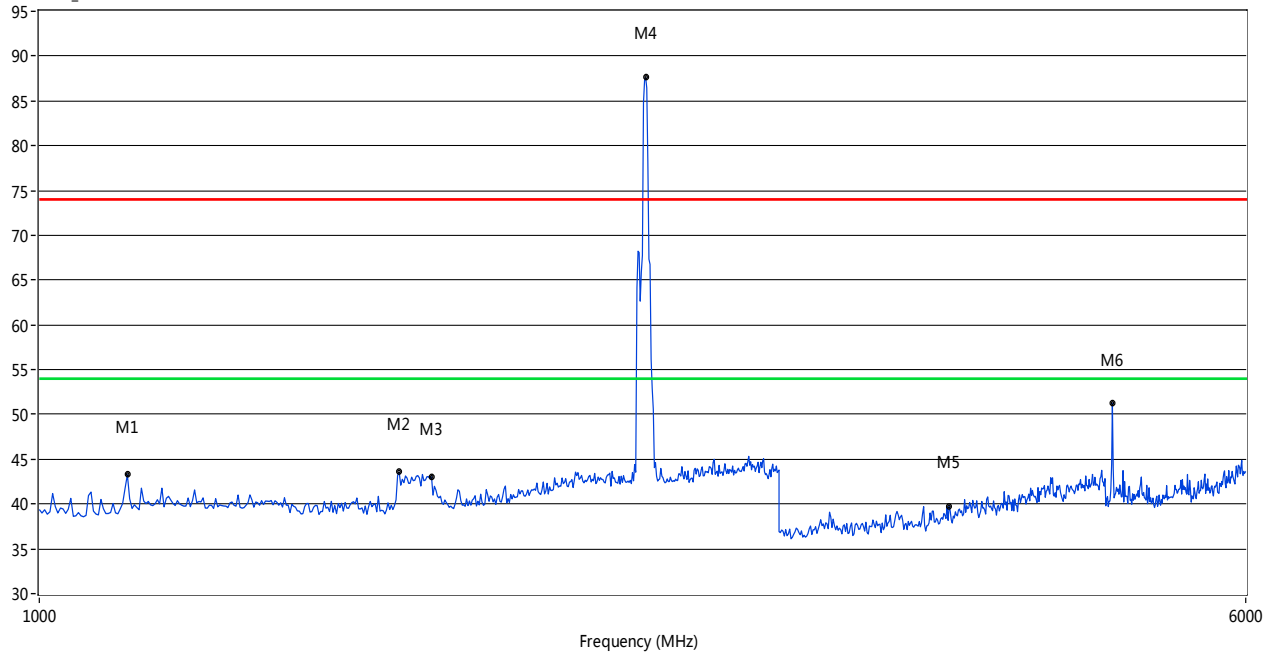
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1079.84	41.86			-4.82	74.0	--	54.0	12.14	299.80	100	Vertical	PASS
1714.57	43.92			-0.34	74.0	--	54.0	10.08	338.40	100	Vertical	PASS
1790.42	42.82			-0.24	74.0	--	54.0	11.18	39.20	100	Vertical	PASS
2461.08	87.63			0.05	74.0	--	54.0	-33.63	349.40	100	Vertical	N/A
3233.53	40.55			8.25	74.0	--	54.0	13.45	337.80	100	Vertical	PASS
4922.16	60.38	--	48.79	12.88	74.0	--	54.0	5.21	256.70	100	Vertical	PASS

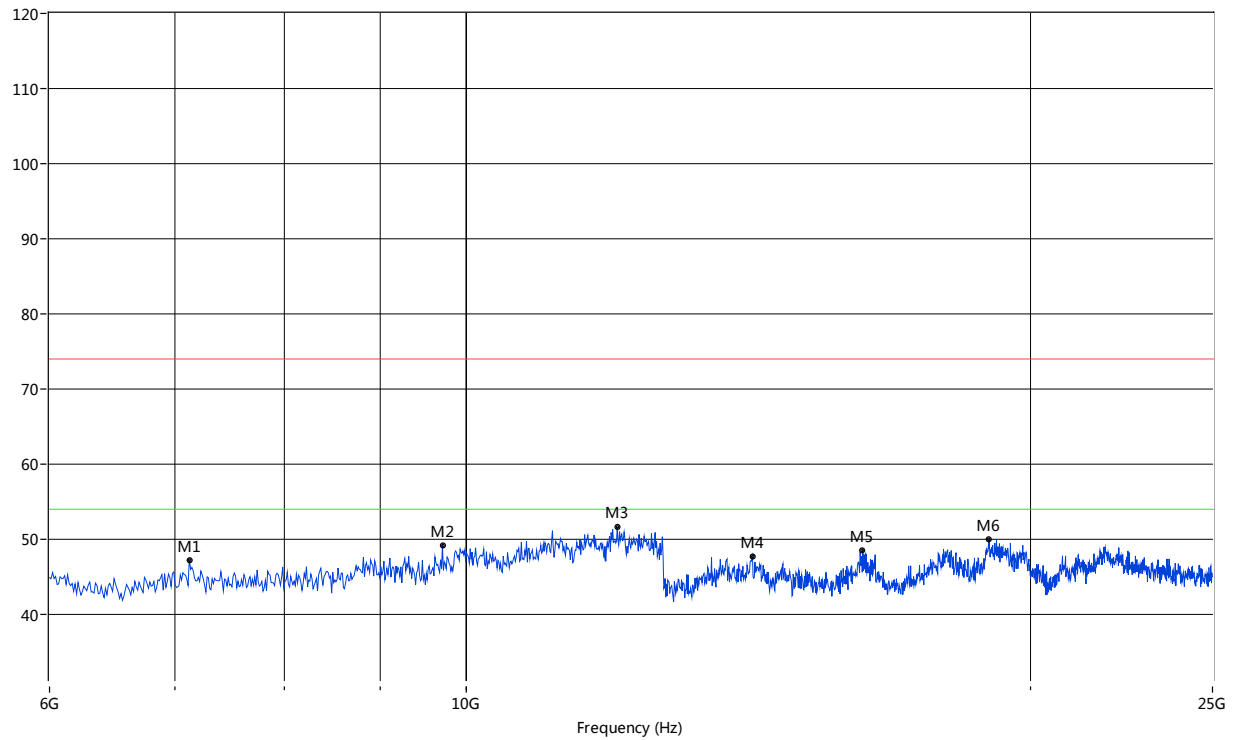
802.11g LOW CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



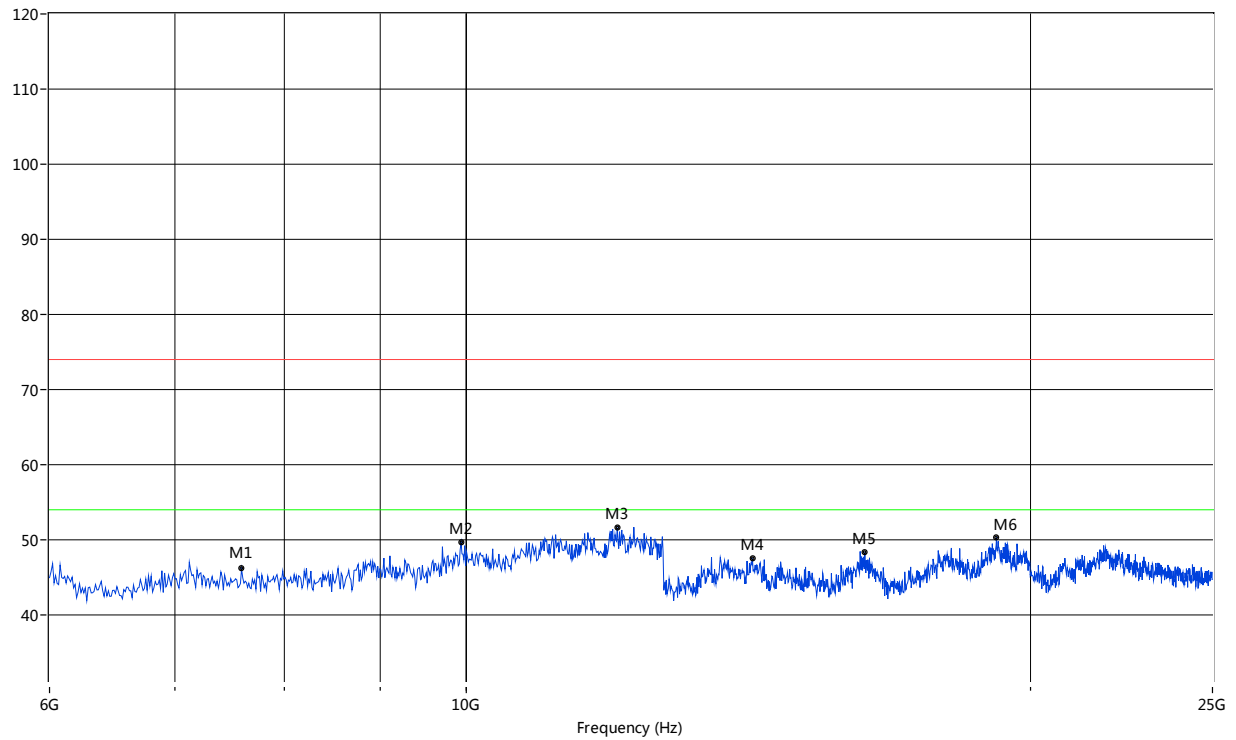
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	43.27			-4.40	74.0	--	54.0	10.73	304.10	100	Horizontal	PASS
1706.59	43.56			-0.37	74.0	--	54.0	10.44	2.80	100	Horizontal	PASS
1790.42	43.05			-0.24	74.0	--	54.0	10.95	348.50	100	Horizontal	PASS
2461.08	87.62			0.05	74.0	--	54.0	-33.62	343.00	100	Horizontal	N/A
3862.28	39.77			10.05	74.0	--	54.0	14.23	0.10	100	Horizontal	PASS
4922.16	51.25			12.88	74.0	--	54.0	2.75	200.10	100	Horizontal	PASS

802.11g LOW CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	47.27	--	--	74.0	--	54.0	26.73	220	100	Vertical	PASS
9717.55	49.22	--	--	74.0	--	54.0	24.78	165	100	Vertical	PASS
12042.43	51.61	--	--	74.0	--	54.0	22.39	267	100	Vertical	PASS
14216.31	47.76	--	--	74.0	--	54.0	26.24	246	100	Vertical	PASS
16275.37	48.55	--	--	74.0	--	54.0	25.45	82	100	Vertical	PASS
19009.98	50.03	--	--	74.0	--	54.0	23.97	20	100	Vertical	PASS

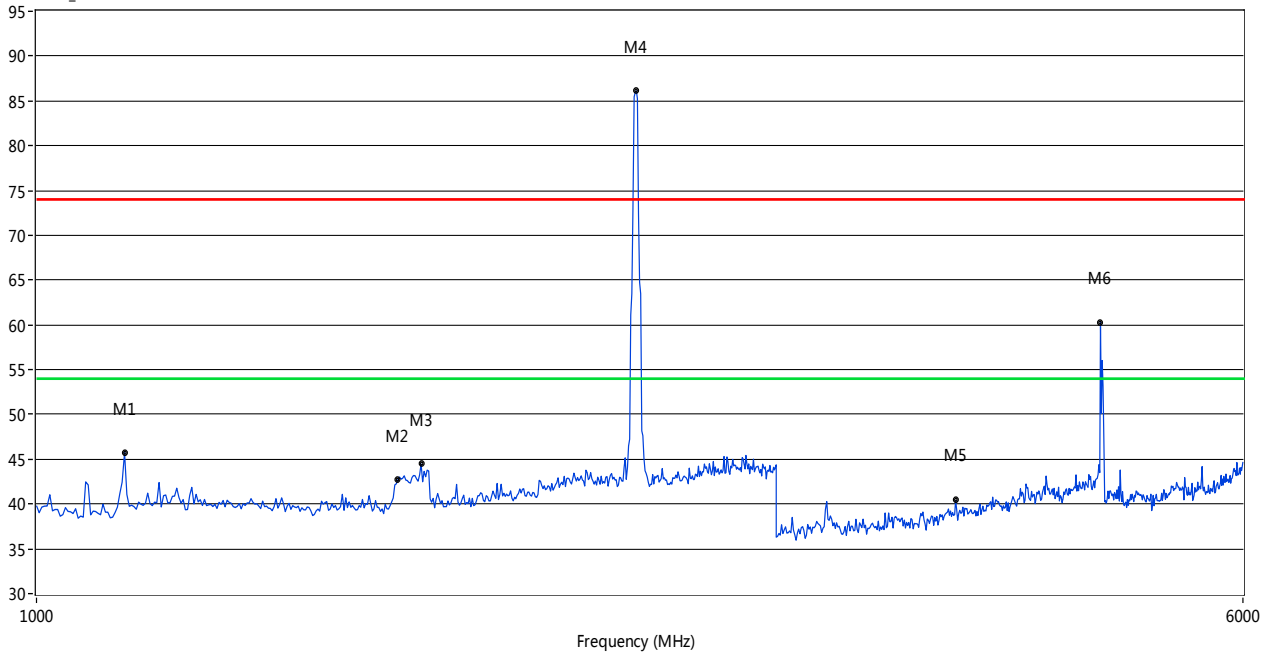
802.11g LOW CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7594.84	46.15	--	--	74.0	--	54.0	27.85	173	100	Horizontal	PASS
9942.18	49.65	--	--	74.0	--	54.0	24.35	112	100	Horizontal	PASS
12042.43	51.62	--	--	74.0	--	54.0	22.38	270	100	Horizontal	PASS
14216.31	47.51	--	--	74.0	--	54.0	26.49	300	100	Horizontal	PASS
16316.97	48.31	--	--	74.0	--	54.0	25.69	239	100	Horizontal	PASS
19179.70	50.31	--	--	74.0	--	54.0	23.69	269	100	Horizontal	PASS

802.11g MID CHANNEL 1GHz to 6GHz, ANT V

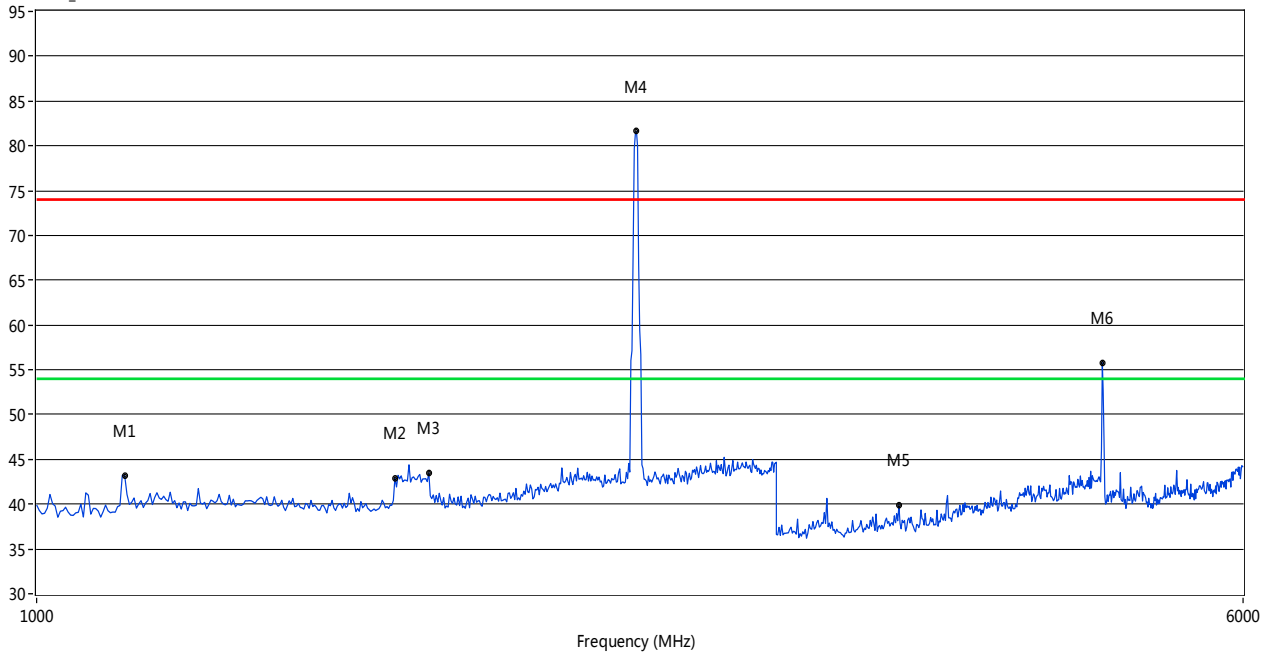
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	45.73			-4.40	74.0	--	54.0	8.27	293.60	100	Vertical	PASS
1710.58	42.73			-0.36	74.0	--	54.0	11.27	21.50	100	Vertical	PASS
1770.46	44.47			-0.23	74.0	--	54.0	9.53	-0.00	100	Vertical	PASS
2437.13	86.13			0.12	74.0	--	54.0	-32.13	344.10	100	Vertical	N/A
3916.17	40.41			10.18	74.0	--	54.0	13.59	166.30	100	Vertical	PASS
4856.29	60.31		48.56	12.52	74.0	--	54.0	5.44	359.60	100	Vertical	PASS

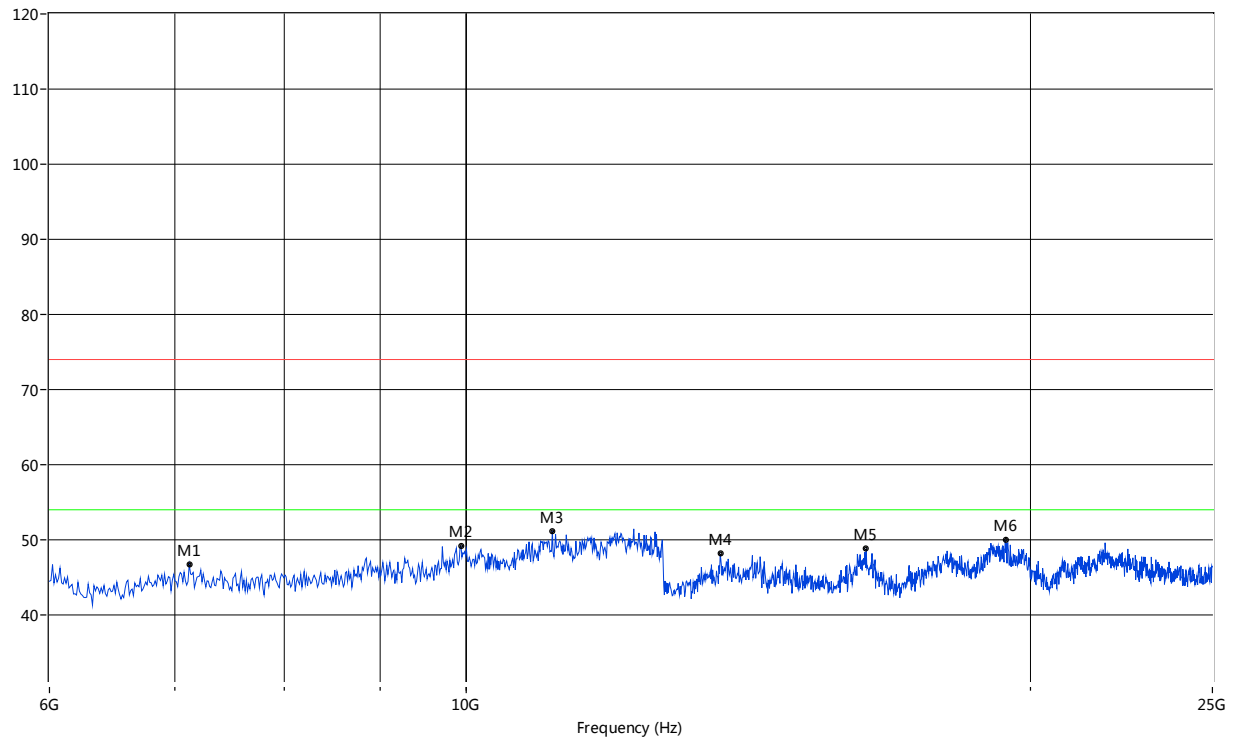
802.11g MID CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



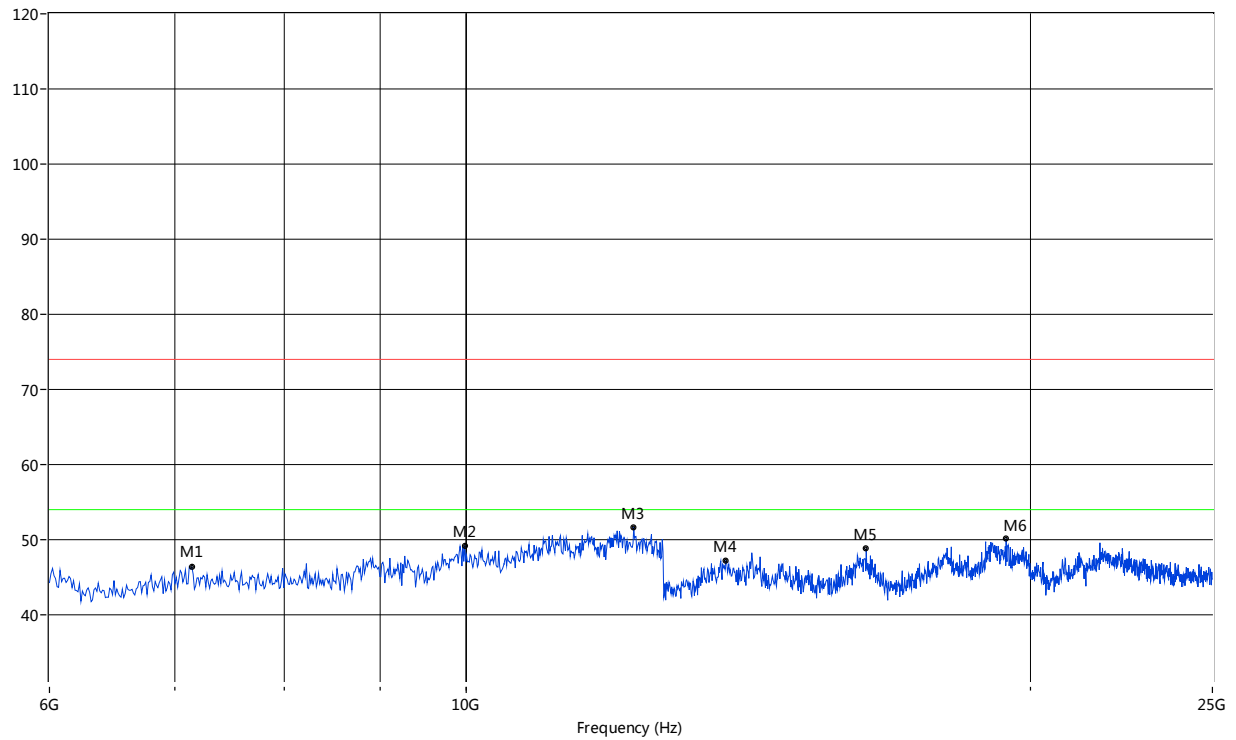
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	43.18			-4.40	74.0	--	54.0	10.82	337.50	100	Horizontal	PASS
1702.59	42.94			-0.38	74.0	--	54.0	11.06	131.50	100	Horizontal	PASS
1790.42	43.49			-0.24	74.0	--	54.0	10.51	0.40	100	Horizontal	PASS
2437.13	81.60			0.12	74.0	--	54.0	-27.60	9.20	100	Horizontal	N/A
3598.80	39.83			8.72	74.0	--	54.0	14.17	99.50	100	Horizontal	PASS
4868.26	55.78		46.57	12.27	74.0	--	54.0	-1.78	238.90	100	Horizontal	PASS

802.11g MID CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.73	--	--	74.0	--	54.0	27.27	302	100	Vertical	PASS
9942.18	49.13	--	--	74.0	--	54.0	24.87	39	100	Vertical	PASS
11121.46	51.17	--	--	74.0	--	54.0	22.83	329	100	Vertical	PASS
13665.14	48.13	--	--	74.0	--	54.0	25.87	89	100	Vertical	PASS
16348.17	48.82	--	--	74.0	--	54.0	25.18	236	100	Vertical	PASS
19389.35	50.00	--	--	74.0	--	54.0	24.00	171	100	Vertical	PASS

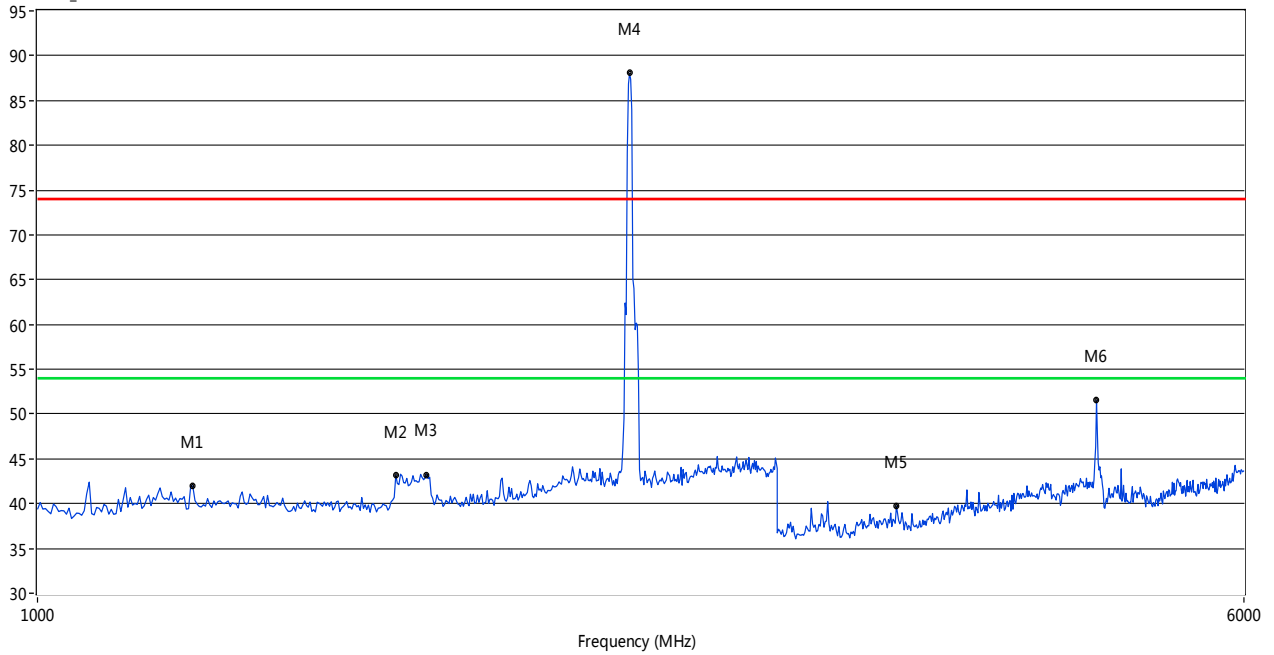
802.11g MID CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7145.59	46.39	--	--	74.0	--	54.0	27.61	214	100	Horizontal	PASS
9987.10	49.23	--	--	74.0	--	54.0	24.77	118	100	Horizontal	PASS
12289.52	51.70	--	--	74.0	--	54.0	22.30	345	100	Horizontal	PASS
13758.74	47.20	--	--	74.0	--	54.0	26.80	66	100	Horizontal	PASS
16348.17	48.81	--	--	74.0	--	54.0	25.19	347	100	Horizontal	PASS
19409.32	50.15	--	--	74.0	--	54.0	23.85	254	100	Horizontal	PASS

802.11g HIGH CHANNEL 1GHz to 6GHz, ANT V

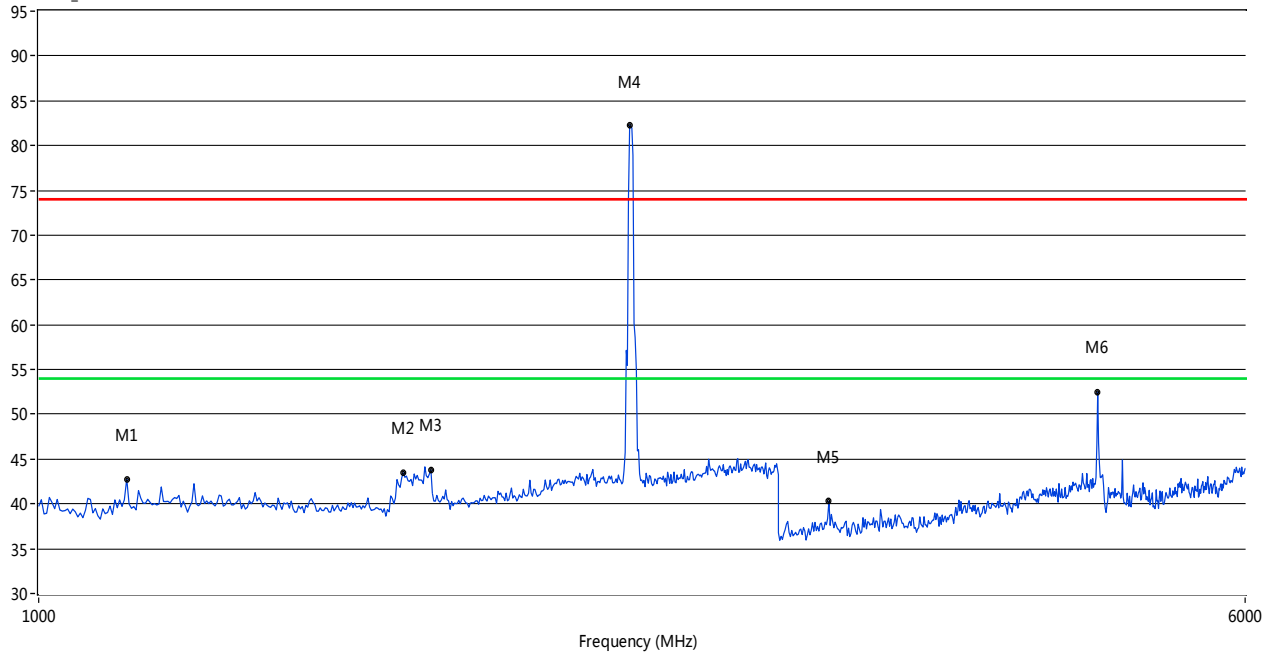
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1259.48	41.95			-3.90	74.0	--	54.0	12.05	0.60	100	Vertical	PASS
1702.59	43.14			-0.38	74.0	--	54.0	10.86	172.90	100	Vertical	PASS
1782.44	43.24			-0.24	74.0	--	54.0	10.76	310.10	100	Vertical	PASS
2409.18	88.04			0.11	74.0	--	54.0	-34.04	343.20	100	Vertical	N/A
3580.84	39.70			8.87	74.0	--	54.0	14.30	45.90	100	Vertical	PASS
4820.36	51.52			12.57	74.0	--	54.0	2.48	258.30	100	Vertical	PASS

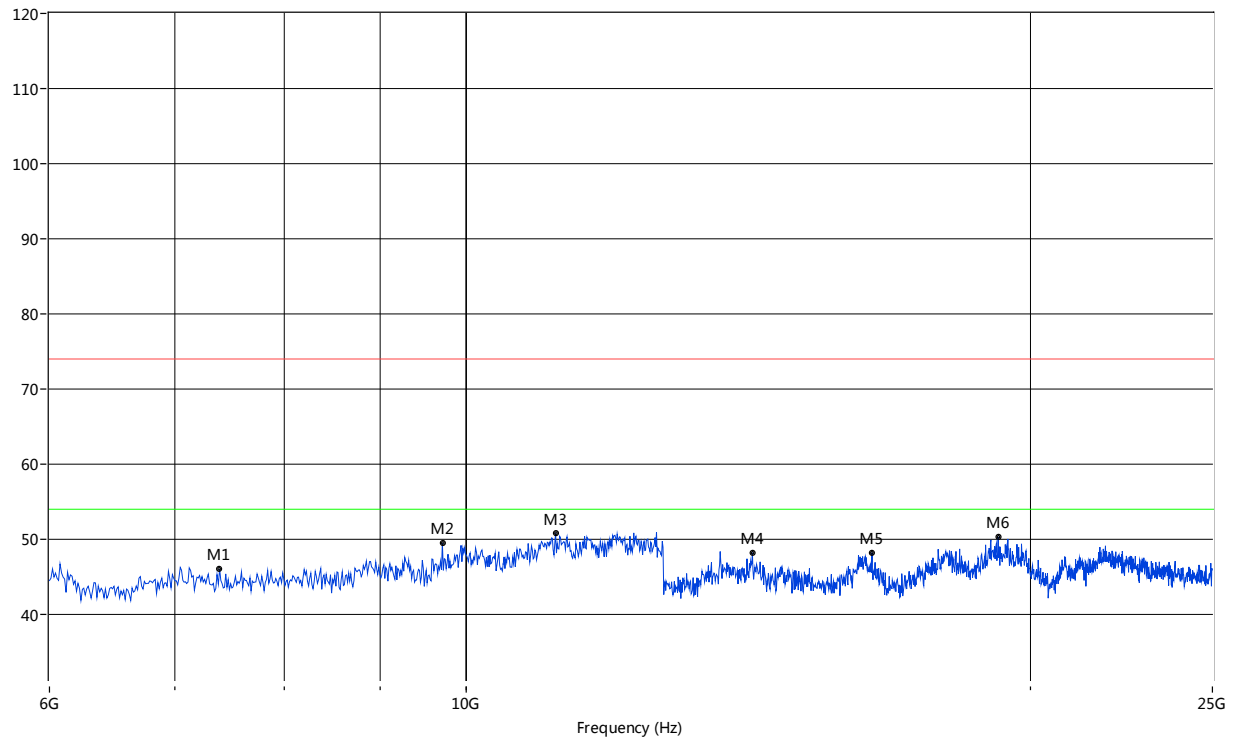
802.11g HIGH CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



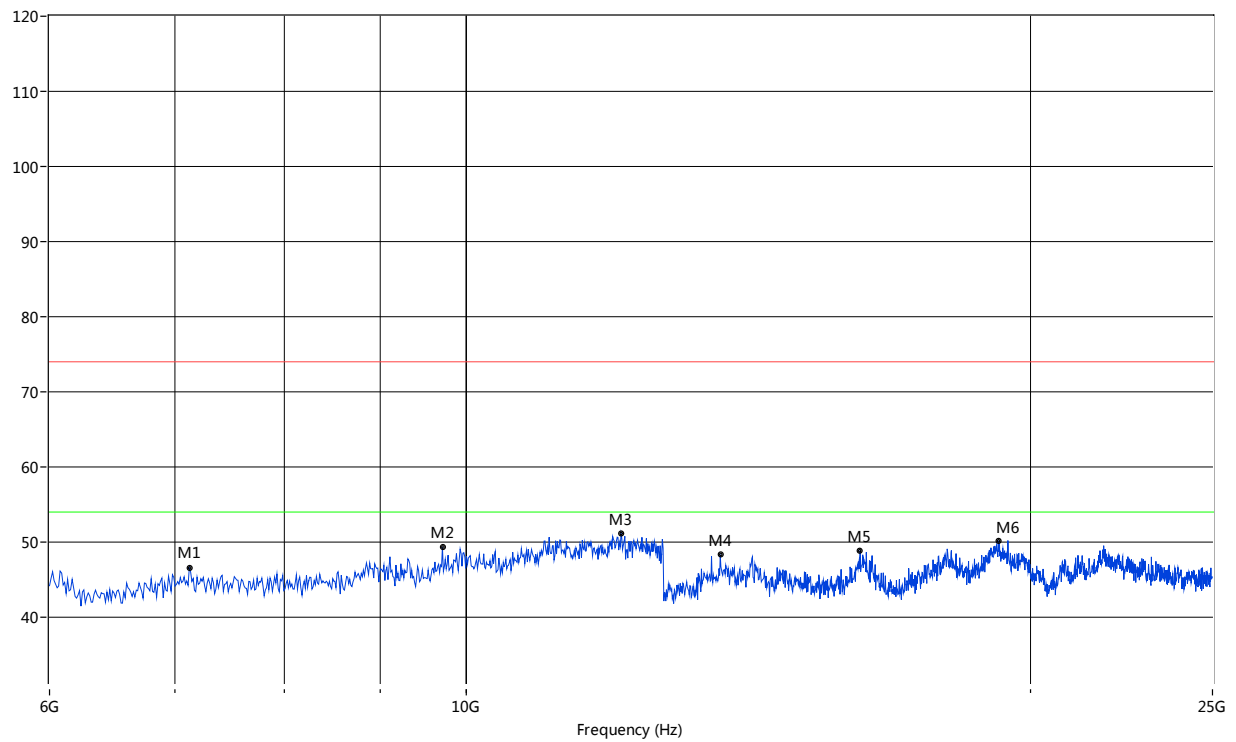
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	42.79			-4.40	74.0	--	54.0	11.21	310.90	100	Horizontal	PASS
1718.56	43.47			-0.33	74.0	--	54.0	10.53	8.00	100	Horizontal	PASS
1790.42	43.79			-0.24	74.0	--	54.0	10.21	-0.00	100	Horizontal	PASS
2405.19	82.28			0.09	74.0	--	54.0	-28.28	52.20	100	Horizontal	N/A
3233.53	40.31			8.25	74.0	--	54.0	13.69	14.70	100	Horizontal	PASS
4820.36	52.50			12.57	74.0	--	54.0	1.50	199.10	100	Horizontal	PASS

802.11g HIGH CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7392.68	46.05	--	--	74.0	--	54.0	27.95	258	100	Vertical	PASS
9717.55	49.53	--	--	74.0	--	54.0	24.47	22	100	Vertical	PASS
11166.39	50.83	--	--	74.0	--	54.0	23.17	2	100	Vertical	PASS
14216.31	48.21	--	--	74.0	--	54.0	25.79	194	100	Vertical	PASS
16462.56	48.23	--	--	74.0	--	54.0	25.77	292	100	Vertical	PASS
19219.63	50.32	--	--	74.0	--	54.0	23.68	356	100	Vertical	PASS

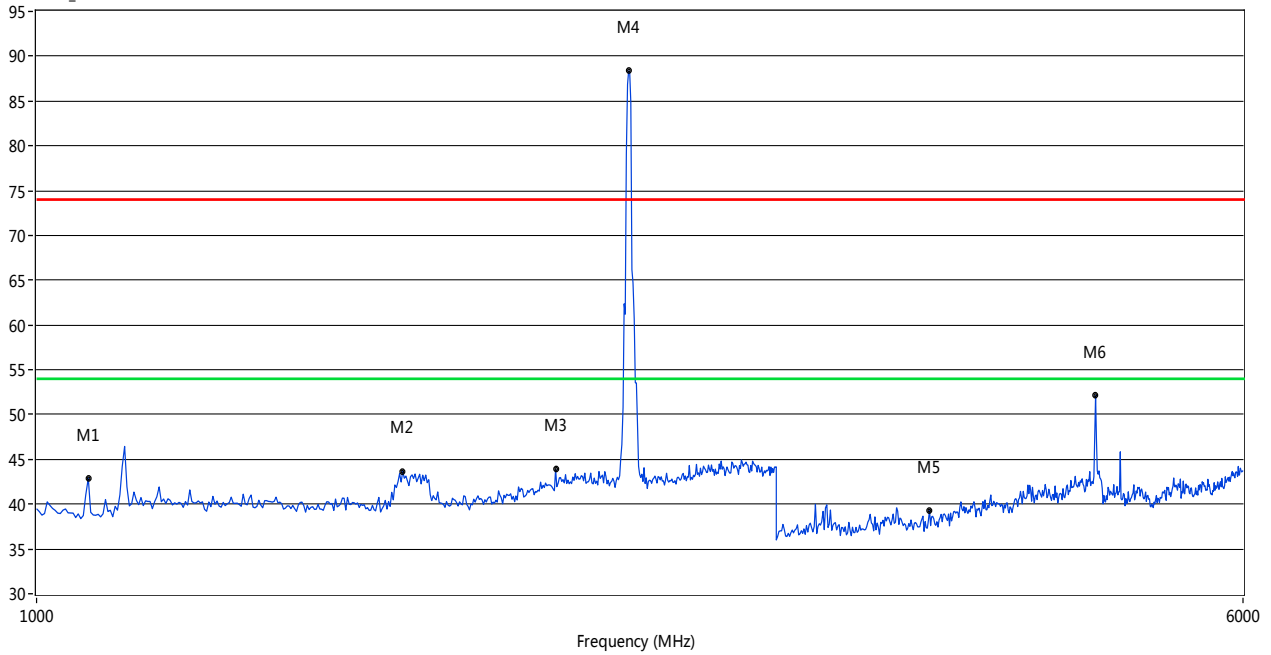
802.11g HIGH CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.57	--	--	74.0	--	54.0	27.43	110	100	Horizontal	PASS
9717.55	49.36	--	--	74.0	--	54.0	24.64	263	100	Horizontal	PASS
12098.59	51.14	--	--	74.0	--	54.0	22.86	133	100	Horizontal	PASS
13665.14	48.34	--	--	74.0	--	54.0	25.66	149	100	Horizontal	PASS
16223.38	48.91	--	--	74.0	--	54.0	25.09	221	100	Horizontal	PASS
19219.63	50.19	--	--	74.0	--	54.0	23.81	209	100	Horizontal	PASS

802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT V

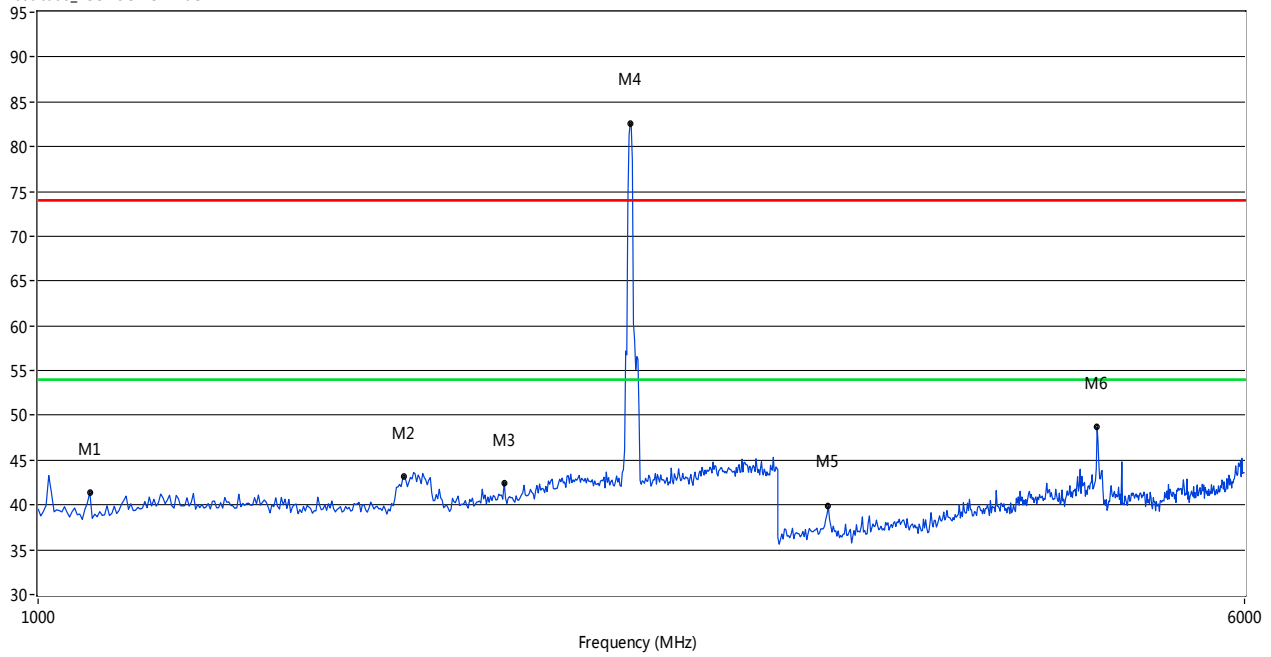
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1079.84	42.89			-4.82	74.0	--	54.0	11.11	293.10	100	Vertical	PASS
1722.55	43.67			-0.32	74.0	--	54.0	10.33	169.90	100	Vertical	PASS
2161.68	43.90			-0.90	74.0	--	54.0	10.10	315.80	100	Vertical	PASS
2409.18	88.37			0.11	74.0	--	54.0	-34.37	343.20	100	Vertical	N/A
3766.47	39.36			9.27	74.0	--	54.0	14.64	-0.70	100	Vertical	PASS
4820.36	52.12			12.57	74.0	--	54.0	1.88	235.50	100	Vertical	PASS

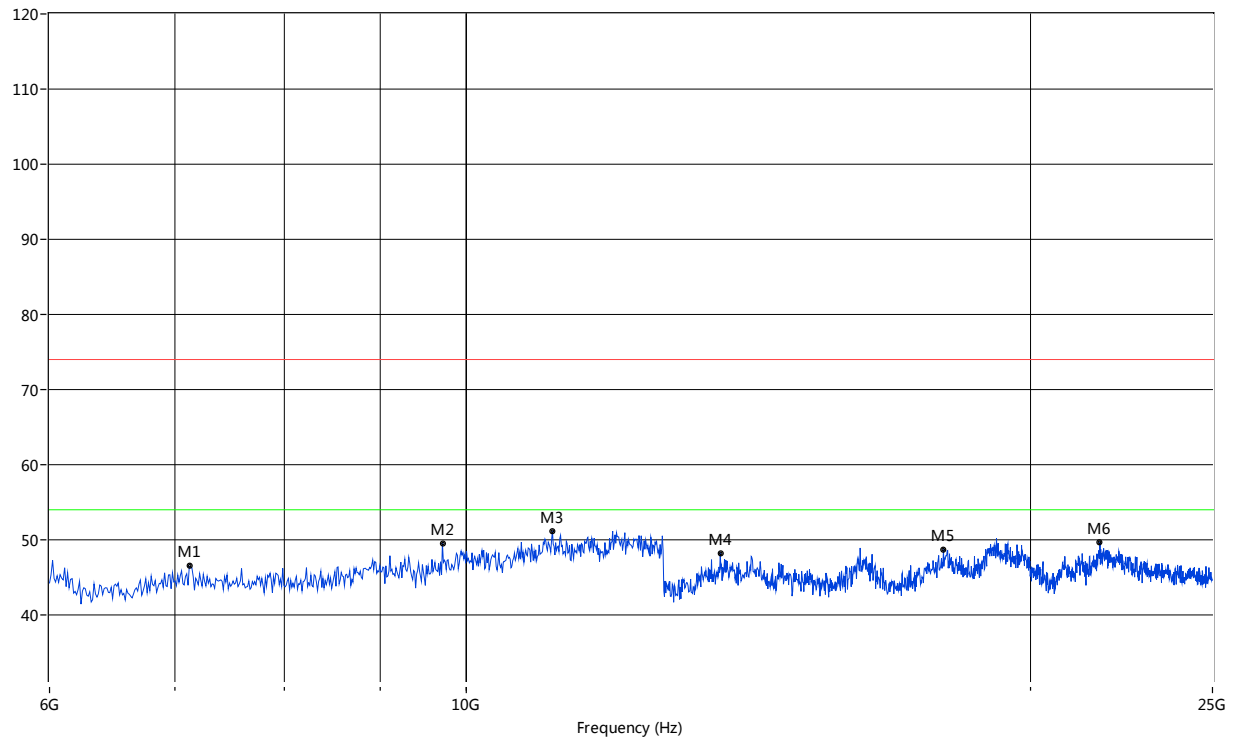
802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



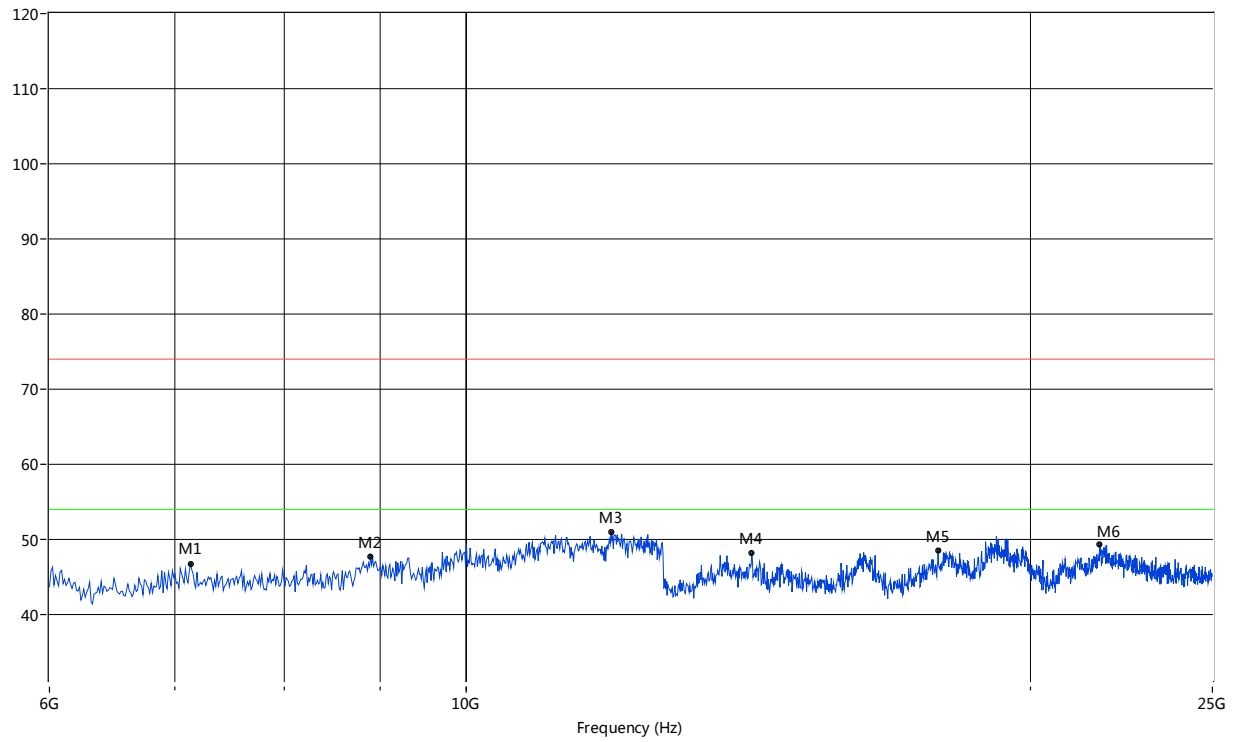
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1079.84	41.41			-4.82	74.0	--	54.0	12.59	28.40	100	Horizontal	PASS
1722.55	43.24			-0.32	74.0	--	54.0	10.76	172.30	100	Horizontal	PASS
1998.00	42.48			-2.54	74.0	--	54.0	11.52	0.60	100	Horizontal	PASS
2409.18	82.60			0.11	74.0	--	54.0	-28.60	50.70	100	Horizontal	N/A
3233.53	39.52			8.25	74.0	--	54.0	14.48	0.40	100	Horizontal	PASS
4820.36	48.66			12.57	74.0	--	54.0	5.34	216.80	100	Horizontal	PASS

802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.48	--	--	74.0	--	54.0	27.52	71	100	Vertical	PASS
9717.55	49.55	--	--	74.0	--	54.0	24.45	244	100	Vertical	PASS
11121.46	51.19	--	--	74.0	--	54.0	22.81	181	100	Vertical	PASS
13665.14	48.26	--	--	74.0	--	54.0	25.74	57	100	Vertical	PASS
17970.47	48.71	--	--	74.0	--	54.0	25.29	259	100	Vertical	PASS
21775.37	49.70	--	--	74.0	--	54.0	24.30	323	100	Vertical	PASS

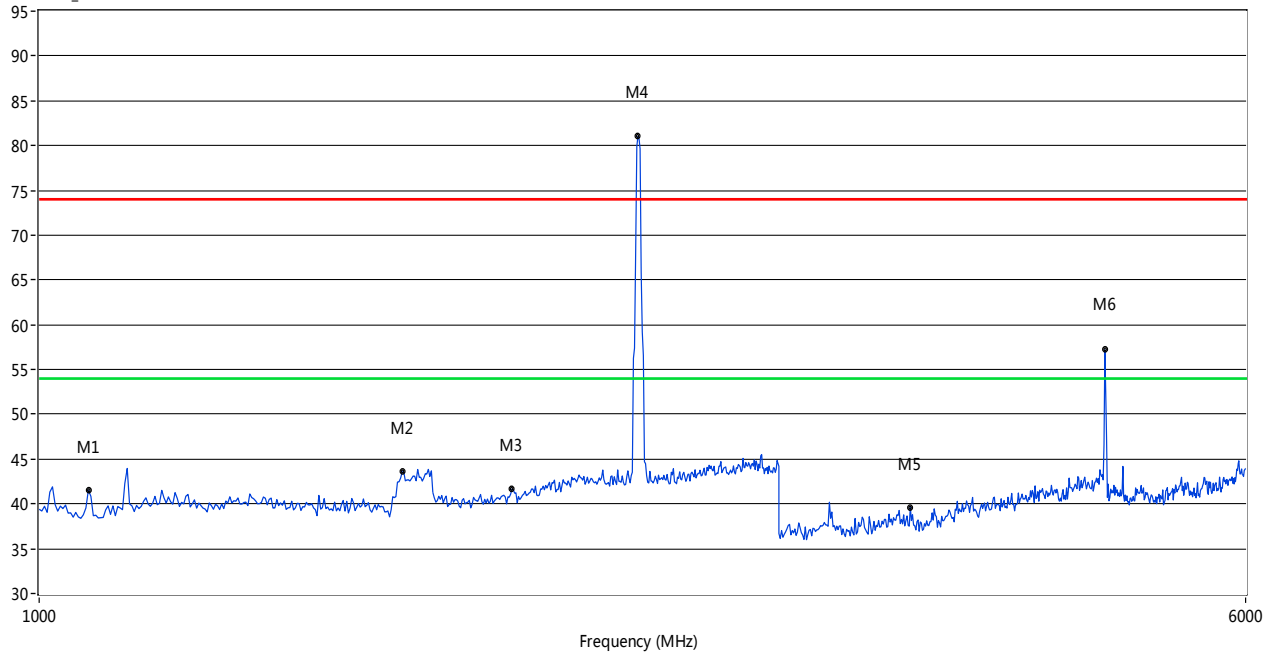
802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7134.36	46.73	--	--	74.0	--	54.0	27.27	173	100	Horizontal	PASS
8897.67	47.65	--	--	74.0	--	54.0	26.35	244	100	Horizontal	PASS
11952.58	50.99	--	--	74.0	--	54.0	23.01	218	100	Horizontal	PASS
14205.91	48.13	--	--	74.0	--	54.0	25.87	264	100	Horizontal	PASS
17856.07	48.53	--	--	74.0	--	54.0	25.47	79	100	Horizontal	PASS
21775.37	49.35	--	--	74.0	--	54.0	24.65	335	100	Horizontal	PASS

802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT V

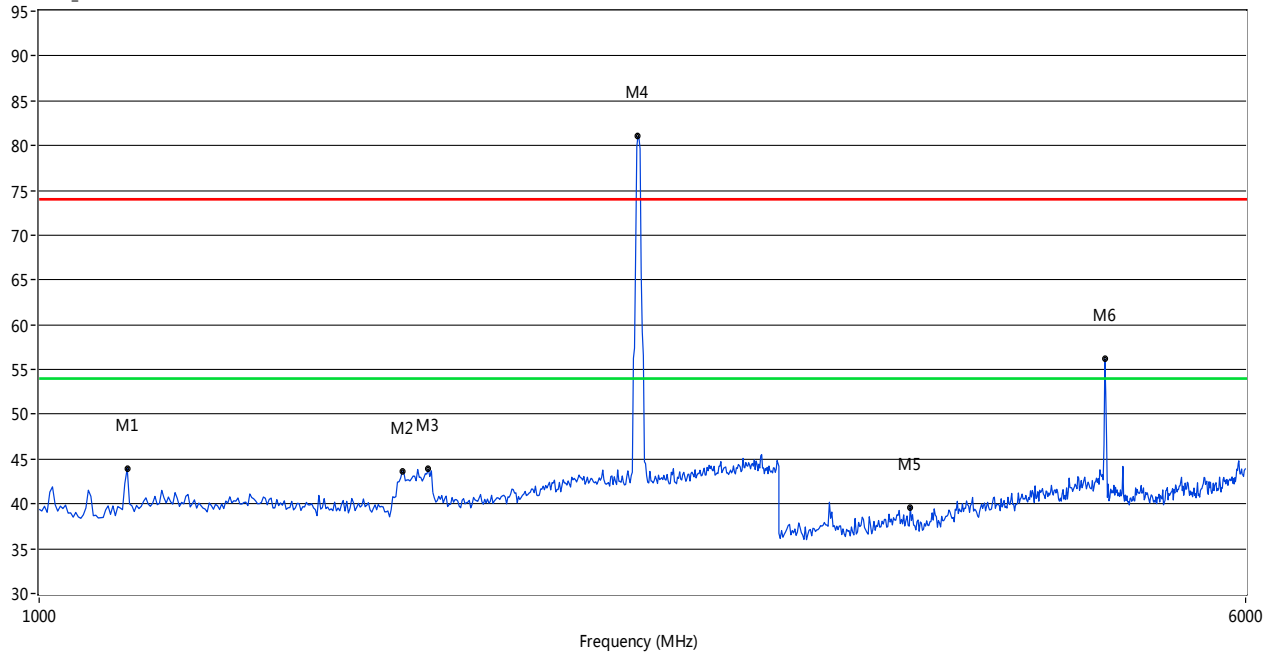
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1075.85	41.53			-4.78	74.0	--	54.0	12.47	359.60	100	Vertical	PASS
1714.57	43.58			-0.34	74.0	--	54.0	10.42	259.90	100	Vertical	PASS
2017.96	41.65			-1.96	74.0	--	54.0	12.35	243.20	100	Vertical	PASS
2433.13	81.01			0.03	74.0	--	54.0	-27.01	8.50	100	Vertical	N/A
3646.71	39.64			8.90	74.0	--	54.0	14.36	167.30	100	Vertical	PASS
4868.26	57.20		44.72	12.27	74.0	--	54.0	9.28	239.60	100	Vertical	PASS

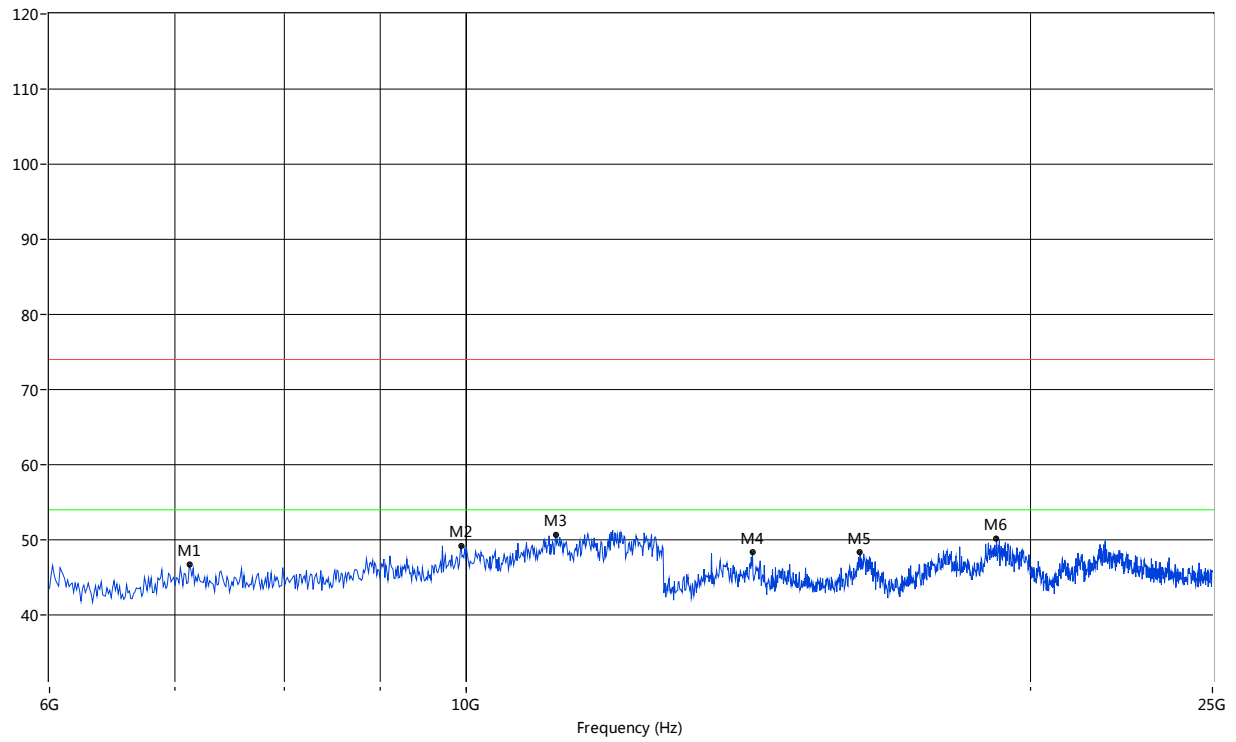
802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



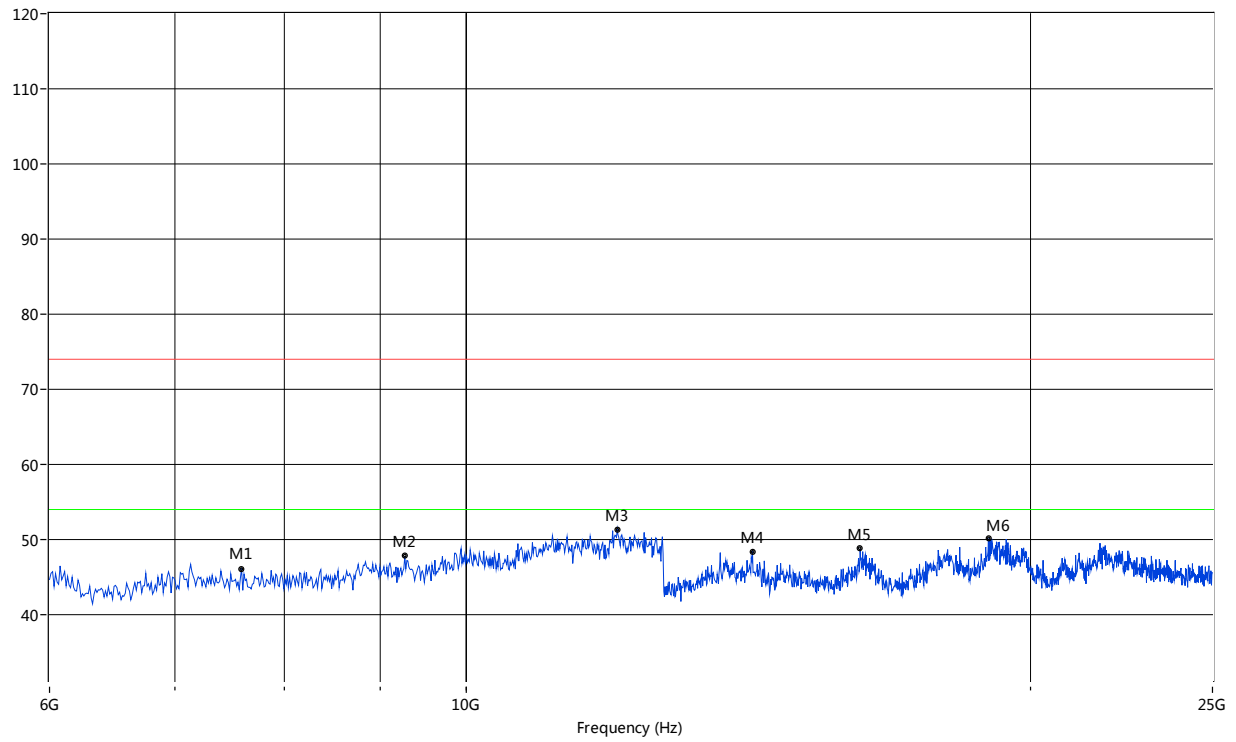
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	43.96			-4.40	74.0	--	54.0	10.04	298.10	100	Horizontal	PASS
1714.57	43.58			-0.34	74.0	--	54.0	10.42	259.90	100	Horizontal	PASS
1782.44	43.86			-0.24	74.0	--	54.0	10.14	13.90	100	Horizontal	PASS
2433.13	81.01			0.03	74.0	--	54.0	-27.01	8.50	100	Horizontal	N/A
3646.71	39.64			8.90	74.0	--	54.0	14.36	167.30	100	Horizontal	PASS
4868.26	56.19		44.13	12.27	74.0	--	54.0	9.87	239.60	100	Horizontal	PASS

802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.66	--	--	74.0	--	54.0	27.34	62	100	Vertical	PASS
9942.18	49.26	--	--	74.0	--	54.0	24.74	253	100	Vertical	PASS
11166.39	50.73	--	--	74.0	--	54.0	23.27	319	100	Vertical	PASS
14216.31	48.37	--	--	74.0	--	54.0	25.63	240	100	Vertical	PASS
16223.38	48.42	--	--	74.0	--	54.0	25.58	198	100	Vertical	PASS
19179.70	50.24	--	--	74.0	--	54.0	23.76	143	100	Vertical	PASS

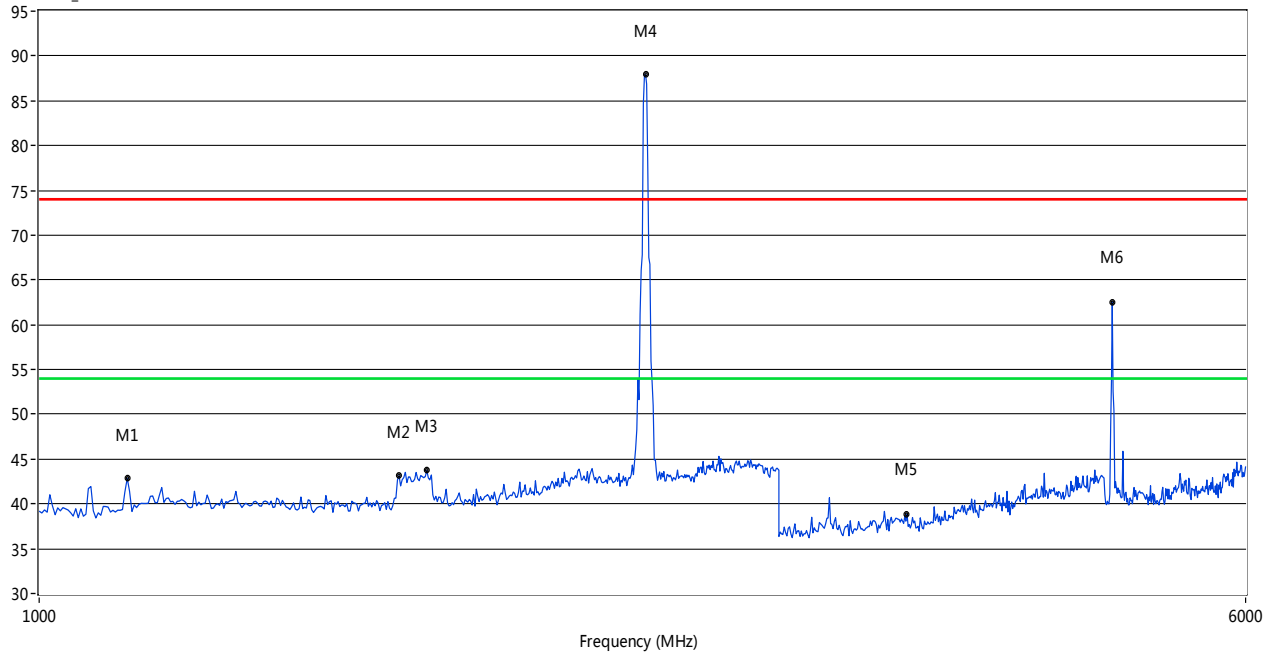
802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7594.84	46.14	--	--	74.0	--	54.0	27.86	151	100	Horizontal	PASS
9279.53	47.81	--	--	74.0	--	54.0	26.19	70	100	Horizontal	PASS
12042.43	51.39	--	--	74.0	--	54.0	22.61	97	100	Horizontal	PASS
14216.31	48.41	--	--	74.0	--	54.0	25.59	142	100	Horizontal	PASS
16223.38	48.78	--	--	74.0	--	54.0	25.22	93	100	Horizontal	PASS
19009.98	50.22	--	--	74.0	--	54.0	23.78	294	100	Horizontal	PASS

802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT V

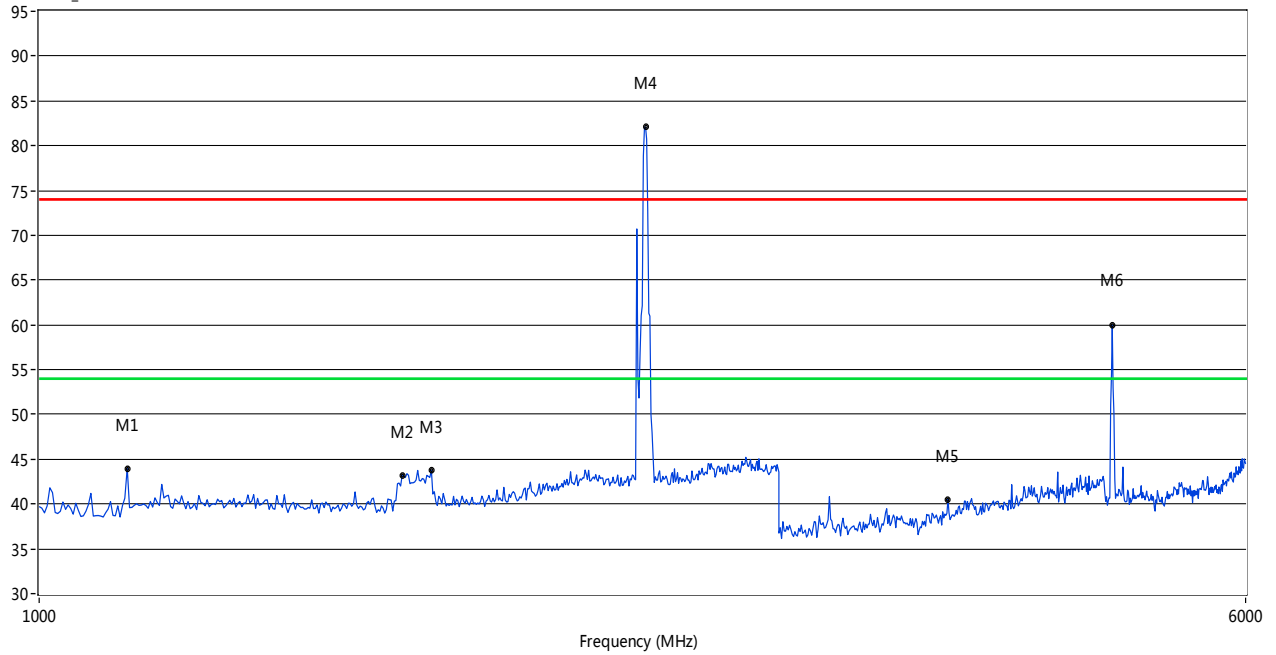
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	42.85			-4.40	74.0	--	54.0	11.15	277.30	100	Vertical	PASS
1706.59	43.15			-0.37	74.0	--	54.0	10.85	343.50	100	Vertical	PASS
1778.44	43.73			-0.23	74.0	--	54.0	10.27	184.20	100	Vertical	PASS
2461.08	87.95			0.05	74.0	--	54.0	-33.95	343.50	100	Vertical	N/A
3628.74	38.87			8.75	74.0	--	54.0	15.13	86.00	100	Vertical	PASS
4922.16	62.54		50.43	12.88	74.0	--	54.0	3.57	256.20	100	Vertical	PASS

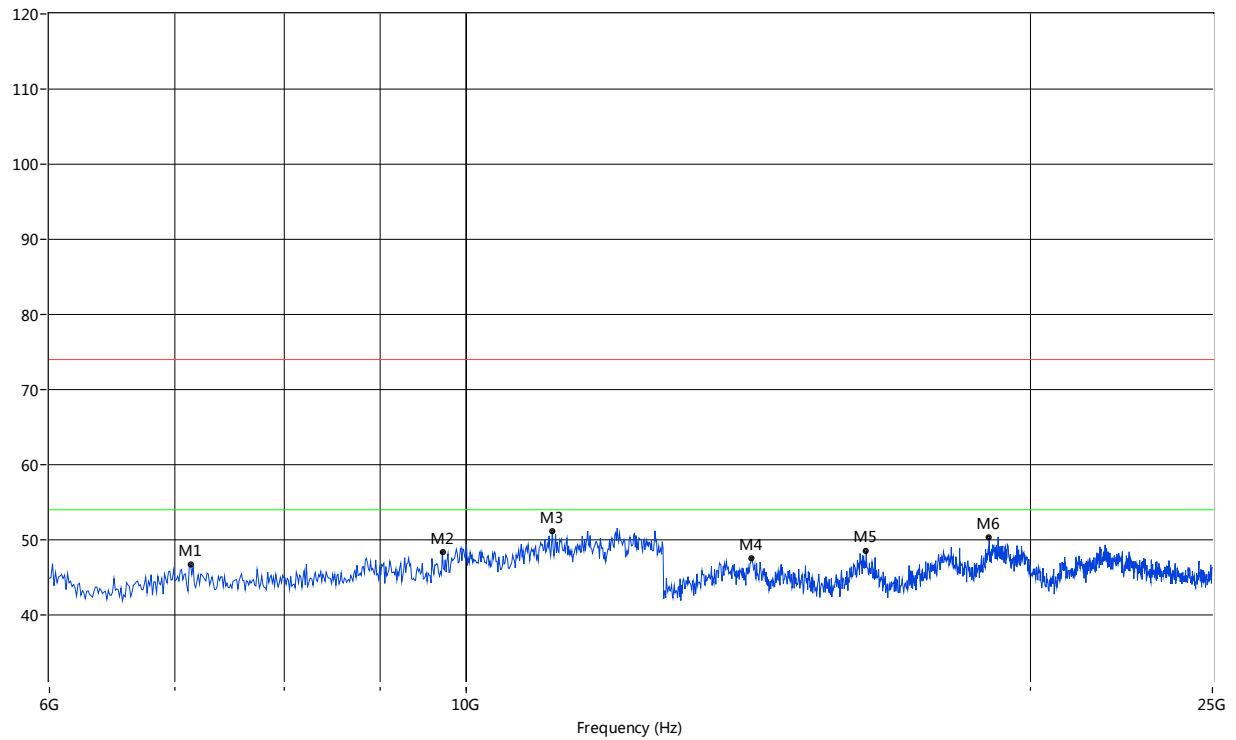
802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



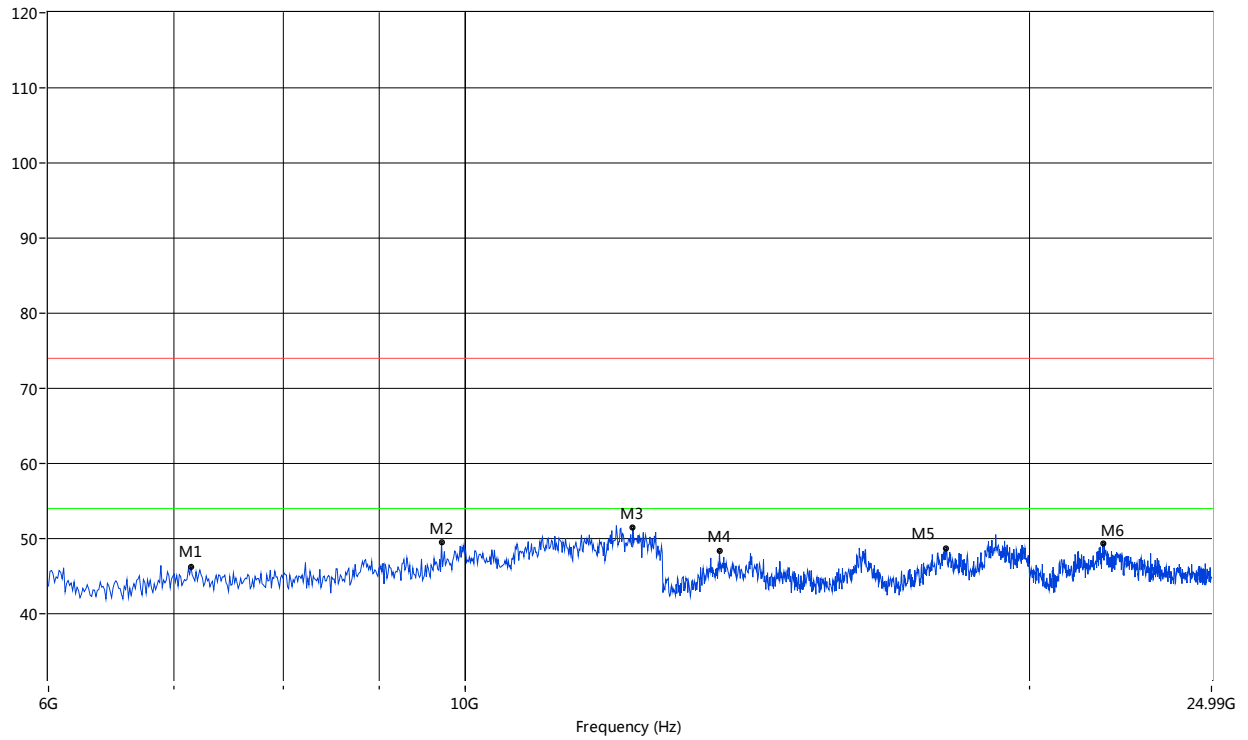
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	44.00			-4.40	74.0	--	54.0	10.00	338.40	100	Horizontal	PASS
1714.57	43.24			-0.34	74.0	--	54.0	10.76	128.20	100	Horizontal	PASS
1790.42	43.76			-0.24	74.0	--	54.0	10.24	311.00	100	Horizontal	PASS
2461.08	82.08			0.05	74.0	--	54.0	-28.08	51.00	100	Horizontal	N/A
3856.29	40.56			10.04	74.0	--	54.0	13.44	86.80	100	Horizontal	PASS
4922.16	59.97		48.53	12.88	74.0	--	54.0	5.47	199.90	100	Horizontal	PASS

802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7134.36	46.67	--	--	74.0	--	54.0	27.33	112	100	Vertical	PASS
9717.55	48.42	--	--	74.0	--	54.0	25.58	16	100	Vertical	PASS
11121.46	51.07	--	--	74.0	--	54.0	22.93	319	100	Vertical	PASS
14205.91	47.53	--	--	74.0	--	54.0	26.47	54	100	Vertical	PASS
16348.17	48.49	--	--	74.0	--	54.0	25.51	73	100	Vertical	PASS
19009.98	50.29	--	--	74.0	--	54.0	23.71	298	100	Vertical	PASS

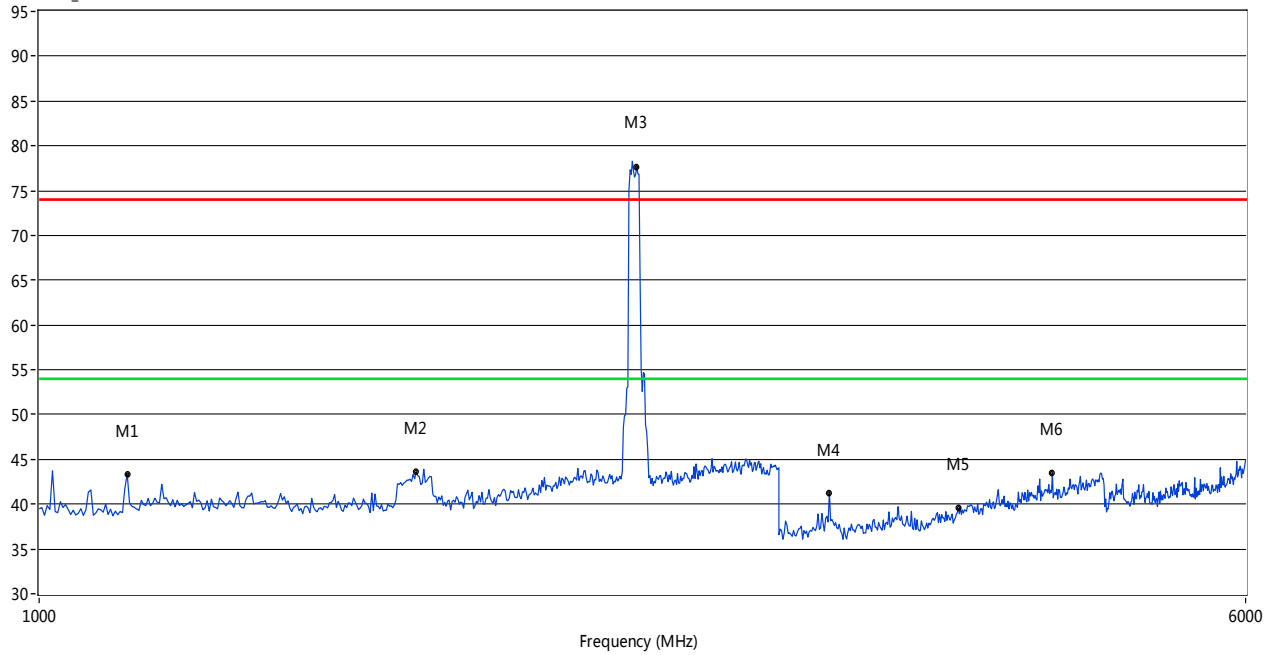
802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7145.59	46.22	--	--	74.0	--	54.0	27.78	49	100	Horizontal	PASS
9717.55	49.48	--	--	74.0	--	54.0	24.52	307	100	Horizontal	PASS
12289.52	51.47	--	--	74.0	--	54.0	22.53	189	100	Horizontal	PASS
13665.14	48.34	--	--	74.0	--	54.0	25.66	60	100	Horizontal	PASS
18053.66	48.76	--	--	74.0	--	54.0	25.24	278	100	Horizontal	PASS
21875.21	49.36	--	--	74.0	--	54.0	24.64	13	100	Horizontal	PASS

802.11n-40MHz LOW MODE 1GHz to 6GHz, ANT V

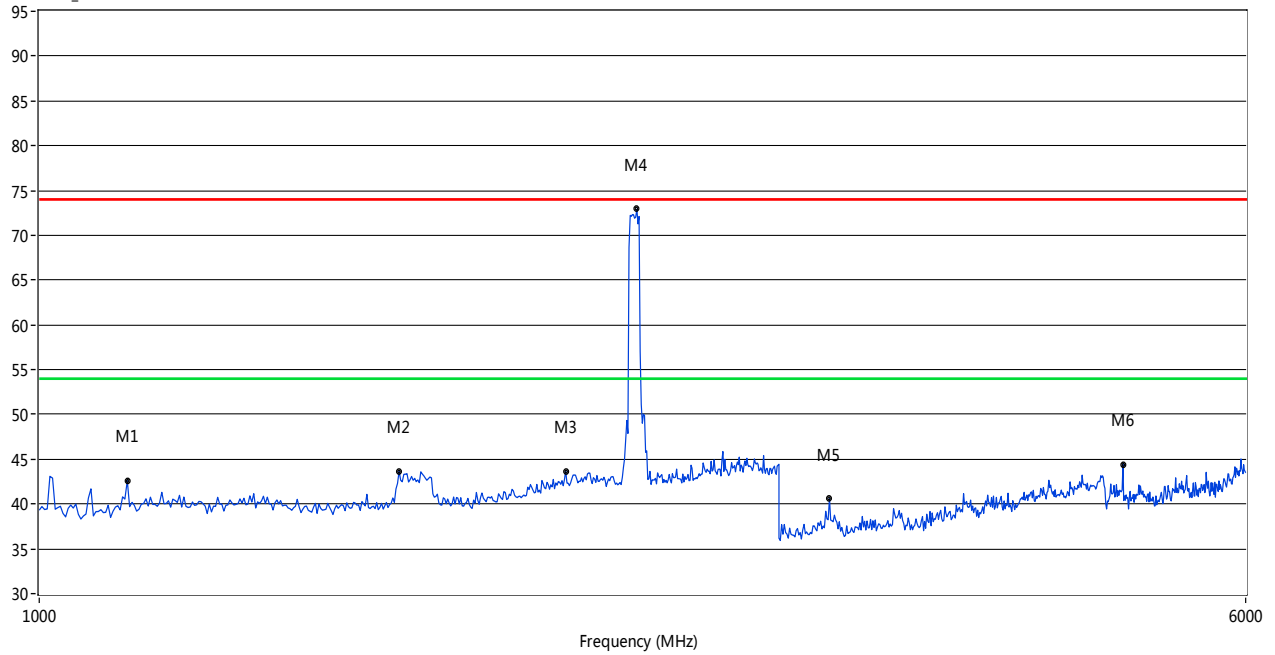
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	43.34			-4.40	74.0	--	54.0	10.66	358.50	100	Vertical	PASS
1750.50	43.57			-0.23	74.0	--	54.0	10.43	10.40	100	Vertical	PASS
2429.14	77.70			-0.04	74.0	--	54.0	-23.70	1.00	100	Vertical	N/A
3233.53	41.28			8.25	74.0	--	54.0	12.72	9.70	100	Vertical	PASS
3916.17	39.51			10.18	74.0	--	54.0	14.49	149.00	100	Vertical	PASS
4502.99	43.41			10.96	74.0	--	54.0	10.59	341.40	100	Vertical	PASS

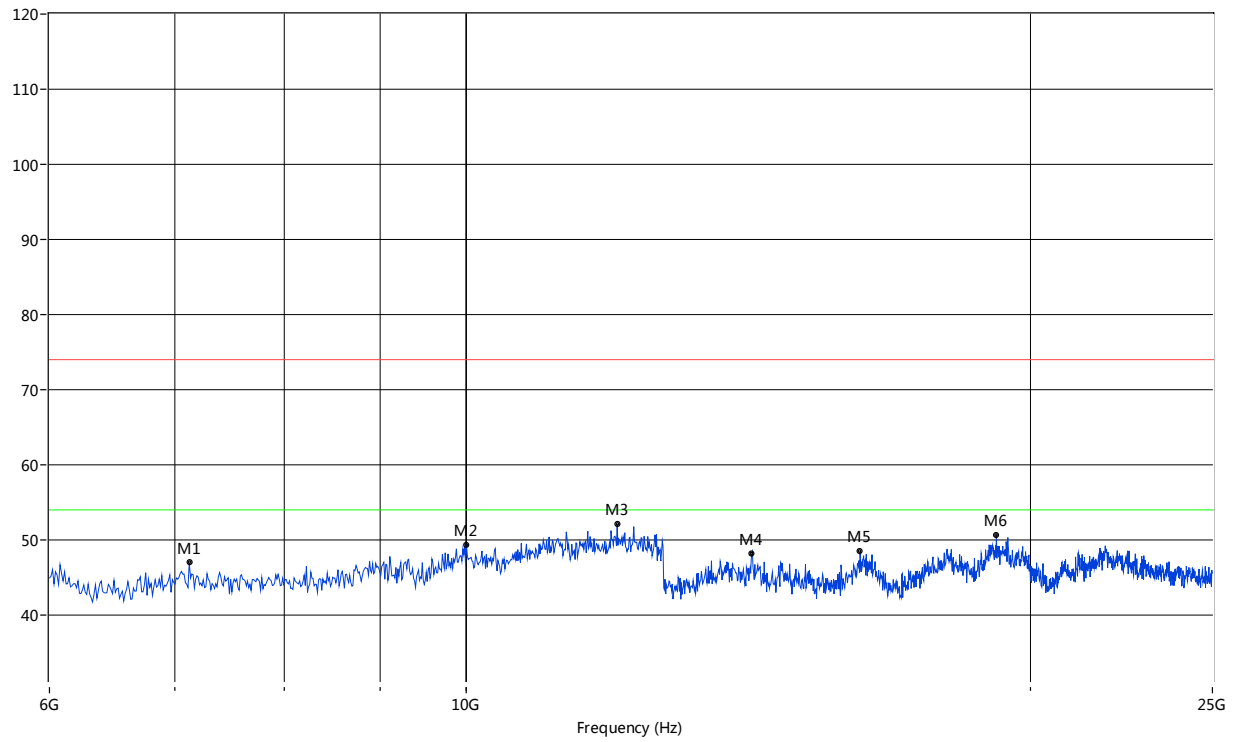
802.11n-40MHz LOW MODE 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



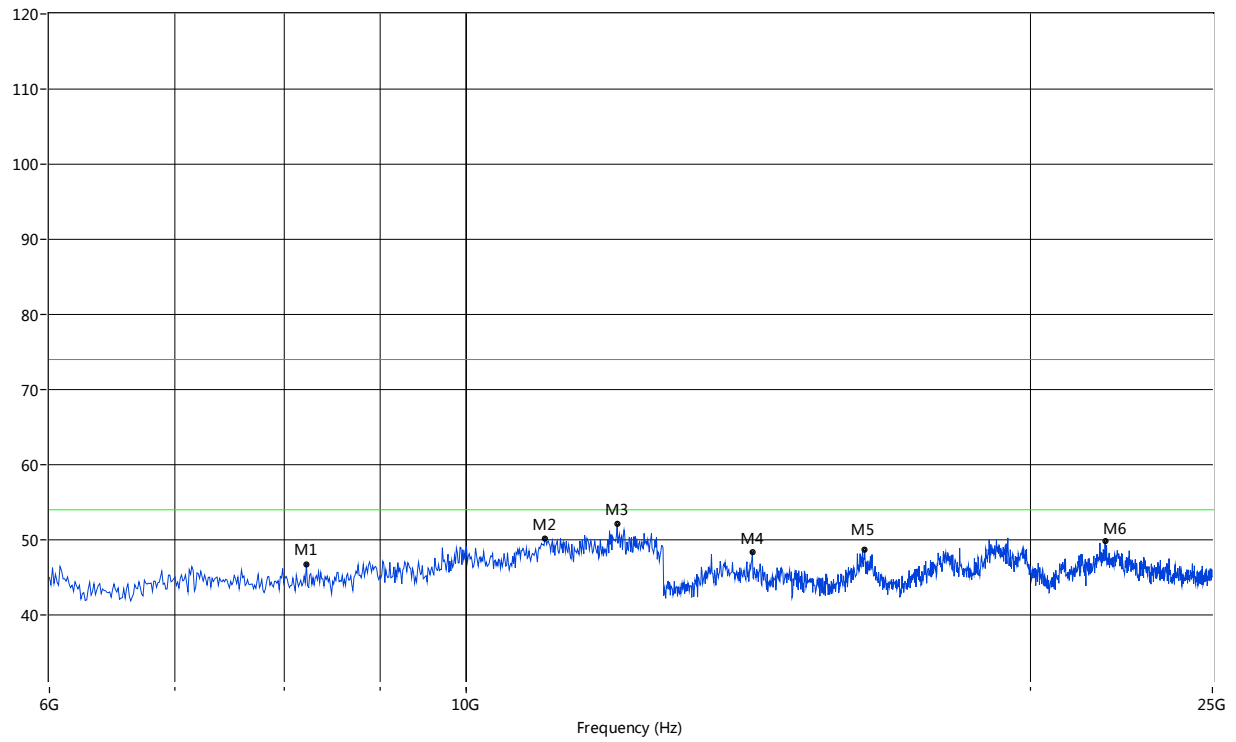
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	42.61			-4.40	74.0	--	54.0	11.39	29.40	100	Horizontal	PASS
1706.59	43.67			-0.37	74.0	--	54.0	10.33	139.80	100	Horizontal	PASS
2185.63	43.68			-0.19	74.0	--	54.0	10.32	299.60	100	Horizontal	PASS
2429.14	72.93			-0.04	74.0	--	54.0	-18.93	13.10	100	Horizontal	N/A
3233.53	40.62			8.25	74.0	--	54.0	13.38	14.20	100	Horizontal	PASS
5000.00	44.44			12.82	74.0	--	54.0	9.56	108.90	100	Horizontal	PASS

802.11n-40MHz LOW MODE 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.98	--	--	74.0	--	54.0	27.02	230	100	Vertical	PASS
10009.57	49.39	--	--	74.0	--	54.0	24.61	199	100	Vertical	PASS
12042.43	52.11	--	--	74.0	--	54.0	21.89	280	100	Vertical	PASS
14205.91	48.23	--	--	74.0	--	54.0	25.77	222	100	Vertical	PASS
16223.38	48.46	--	--	74.0	--	54.0	25.54	48	100	Vertical	PASS
19179.70	50.70	--	--	74.0	--	54.0	23.30	149	100	Vertical	PASS

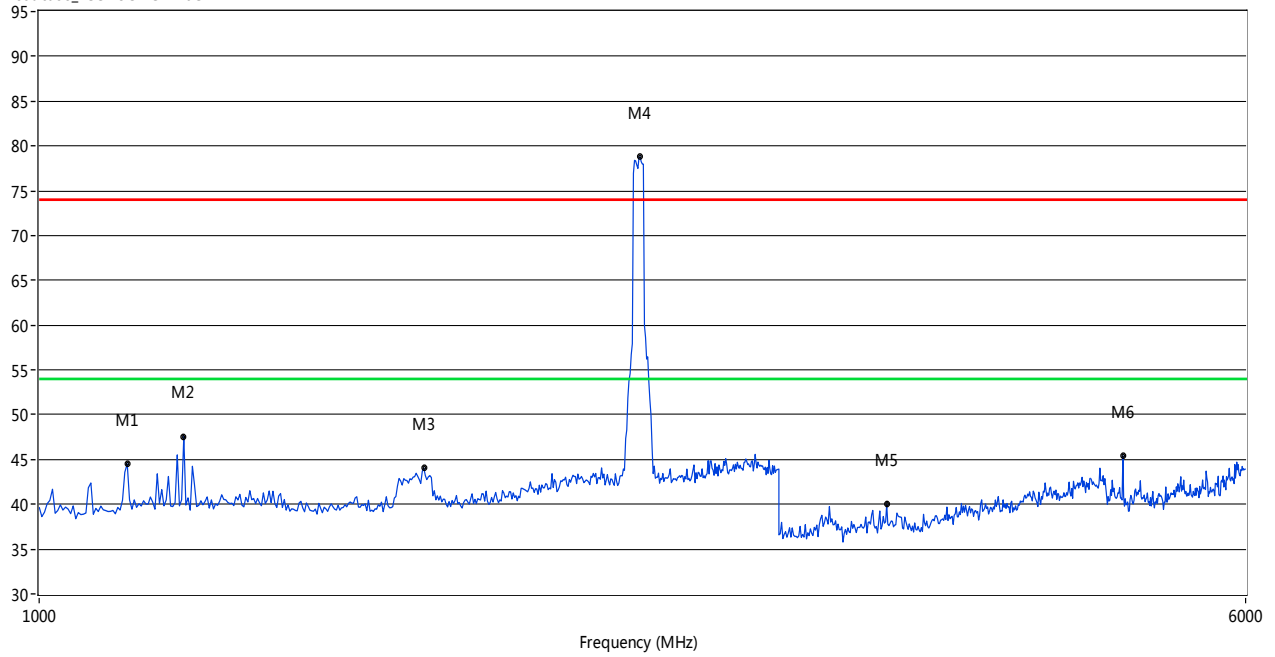
802.11n-40MHz LOW MODE 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
8223.79	46.79	--	--	74.0	--	54.0	27.21	137	100	Horizontal	PASS
11020.38	50.16	--	--	74.0	--	54.0	23.84	22	100	Horizontal	PASS
12042.43	52.08	--	--	74.0	--	54.0	21.92	0	100	Horizontal	PASS
14216.31	48.37	--	--	74.0	--	54.0	25.63	256	100	Horizontal	PASS
16316.97	48.67	--	--	74.0	--	54.0	25.33	225	100	Horizontal	PASS
21915.14	49.79	--	--	74.0	--	54.0	24.21	242	100	Horizontal	PASS

802.11n-40MHz MID MODE 1GHz to 6GHz, ANT V

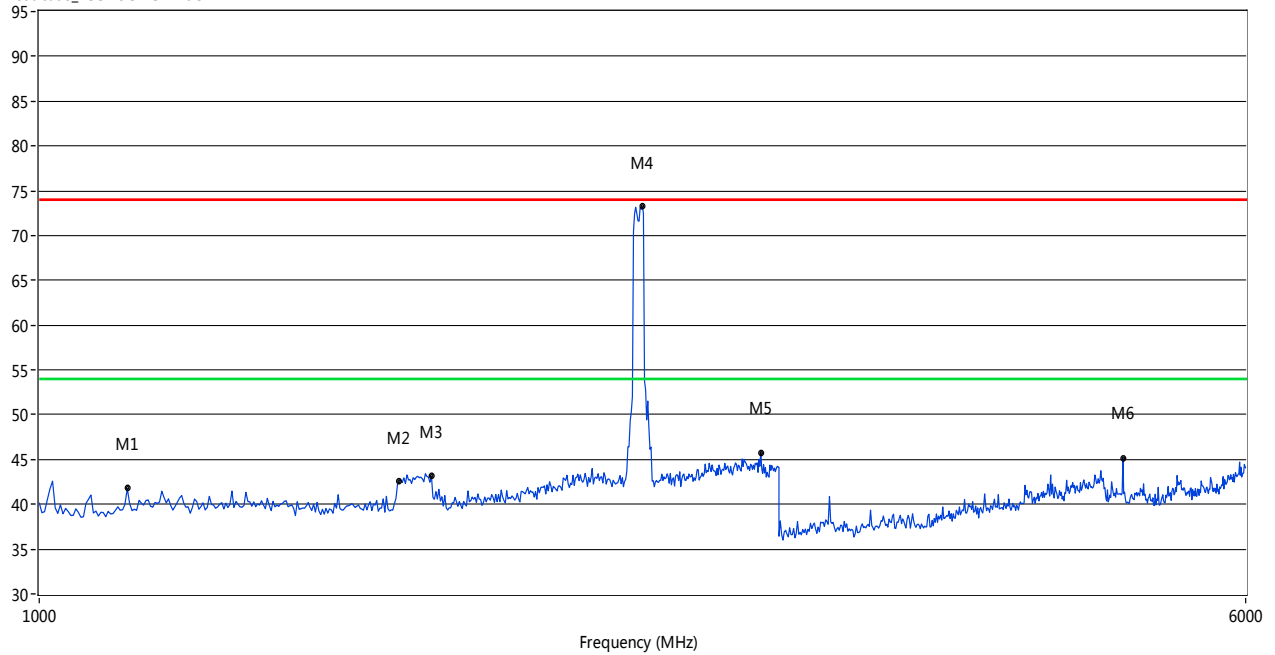
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	44.51			-4.40	74.0	--	54.0	9.49	0.50	100	Vertical	PASS
1239.52	47.58			-3.99	74.0	--	54.0	6.42	-0.00	100	Vertical	PASS
1770.46	44.07			-0.23	74.0	--	54.0	9.93	10.60	100	Vertical	PASS
2441.12	78.80			0.17	74.0	--	54.0	-24.80	357.40	100	Vertical	N/A
3520.96	39.97			8.99	74.0	--	54.0	14.03	-0.70	100	Vertical	PASS
5000.00	45.41			12.82	74.0	--	54.0	8.59	103.60	100	Vertical	PASS

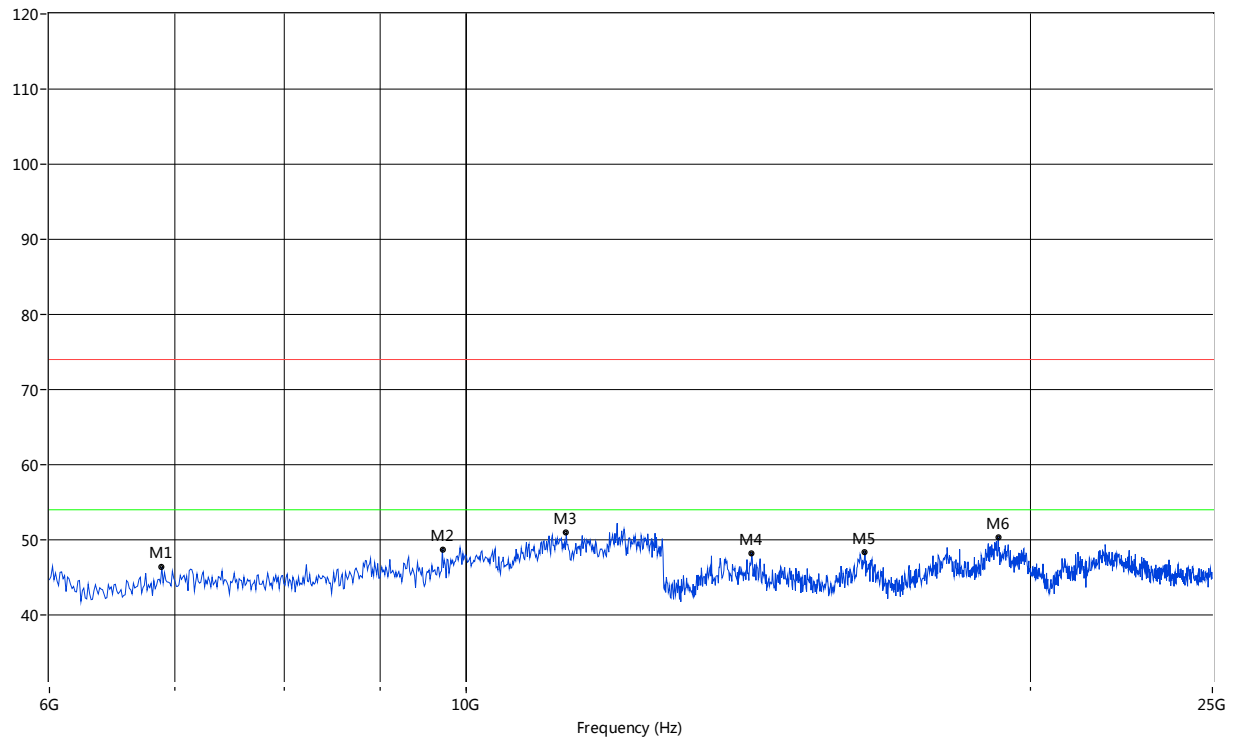
802.11n-40MHz MID MODE 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



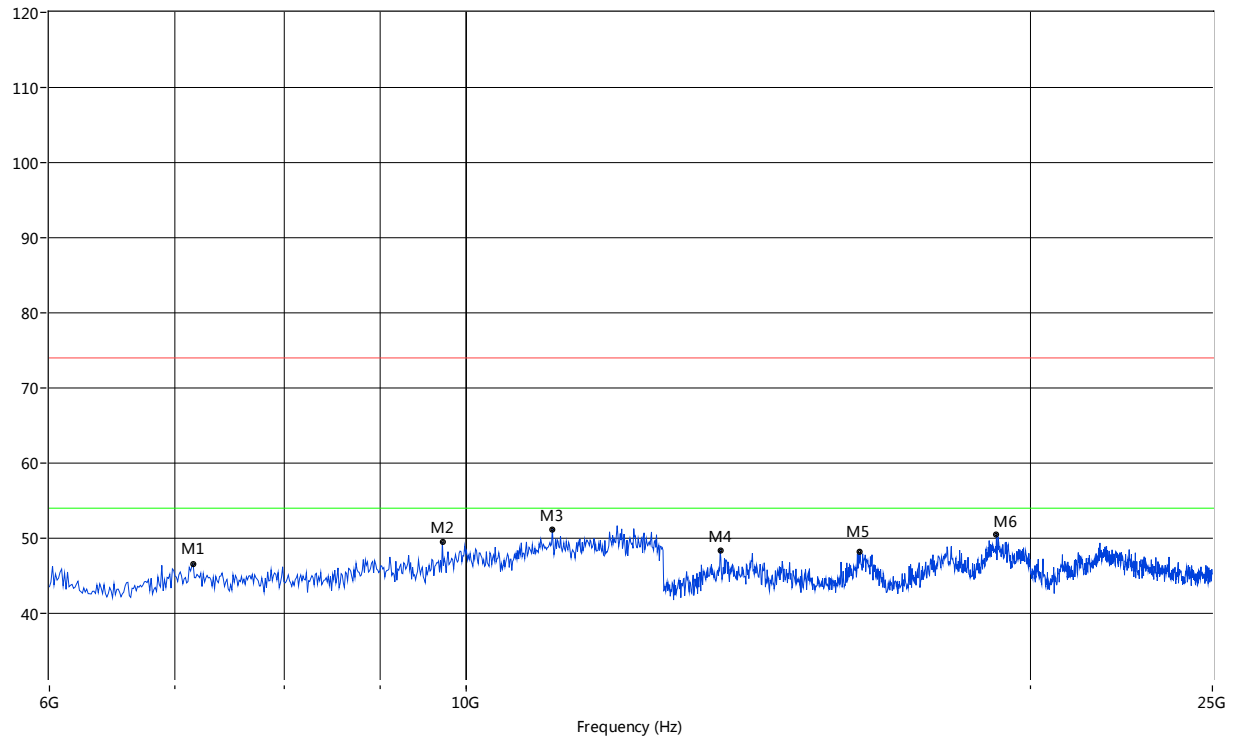
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	41.76			-4.40	74.0	--	54.0	12.24	357.30	100	Horizontal	PASS
1706.59	42.64			-0.37	74.0	--	54.0	11.36	0.00	100	Horizontal	PASS
1790.42	43.15			-0.24	74.0	--	54.0	10.85	325.90	100	Horizontal	PASS
2449.10	73.26			0.22	74.0	--	54.0	-19.26	18.90	100	Horizontal	N/A
2920.16	45.79			2.84	74.0	--	54.0	8.21	337.40	100	Horizontal	PASS
5000.00	45.17			12.82	74.0	--	54.0	8.83	283.20	100	Horizontal	PASS

802.11n-40MHz MID MODE 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
6887.27	46.36	--	--	74.0	--	54.0	27.64	264	100	Vertical	PASS
9717.55	48.72	--	--	74.0	--	54.0	25.28	248	100	Vertical	PASS
11312.40	50.96	--	--	74.0	--	54.0	23.04	213	100	Vertical	PASS
14205.91	48.21	--	--	74.0	--	54.0	25.79	355	100	Vertical	PASS
16316.97	48.30	--	--	74.0	--	54.0	25.70	275	100	Vertical	PASS
19219.63	50.33	--	--	74.0	--	54.0	23.67	63	100	Vertical	PASS

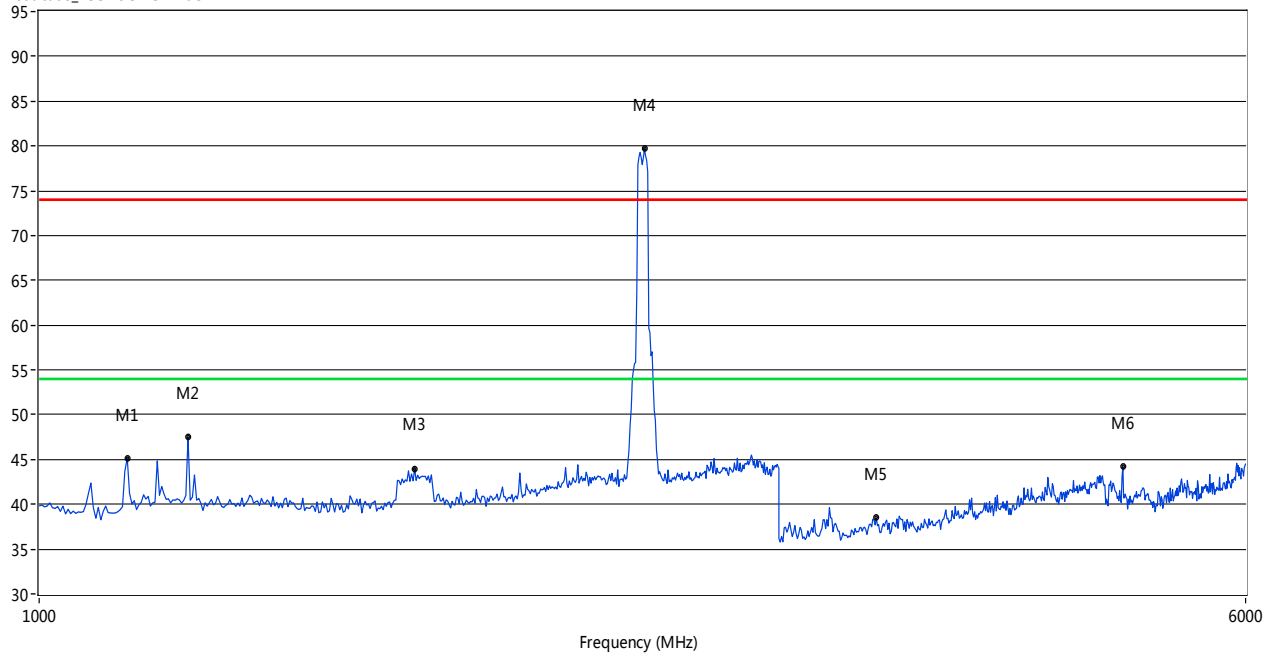
802.11n-40MHz MID MODE 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7156.82	46.51	--	--	74.0	--	54.0	27.49	162	100	Horizontal	PASS
9717.55	49.50	--	--	74.0	--	54.0	24.50	31	100	Horizontal	PASS
11121.46	51.17	--	--	74.0	--	54.0	22.83	160	100	Horizontal	PASS
13665.14	48.37	--	--	74.0	--	54.0	25.62	35	100	Horizontal	PASS
16223.38	48.16	--	--	74.0	--	54.0	25.84	176	100	Horizontal	PASS
19179.70	50.53	--	--	74.0	--	54.0	23.47	279	100	Horizontal	PASS

802.11n-40MHz HIGH MODE 1GHz to 6GHz, ANT V

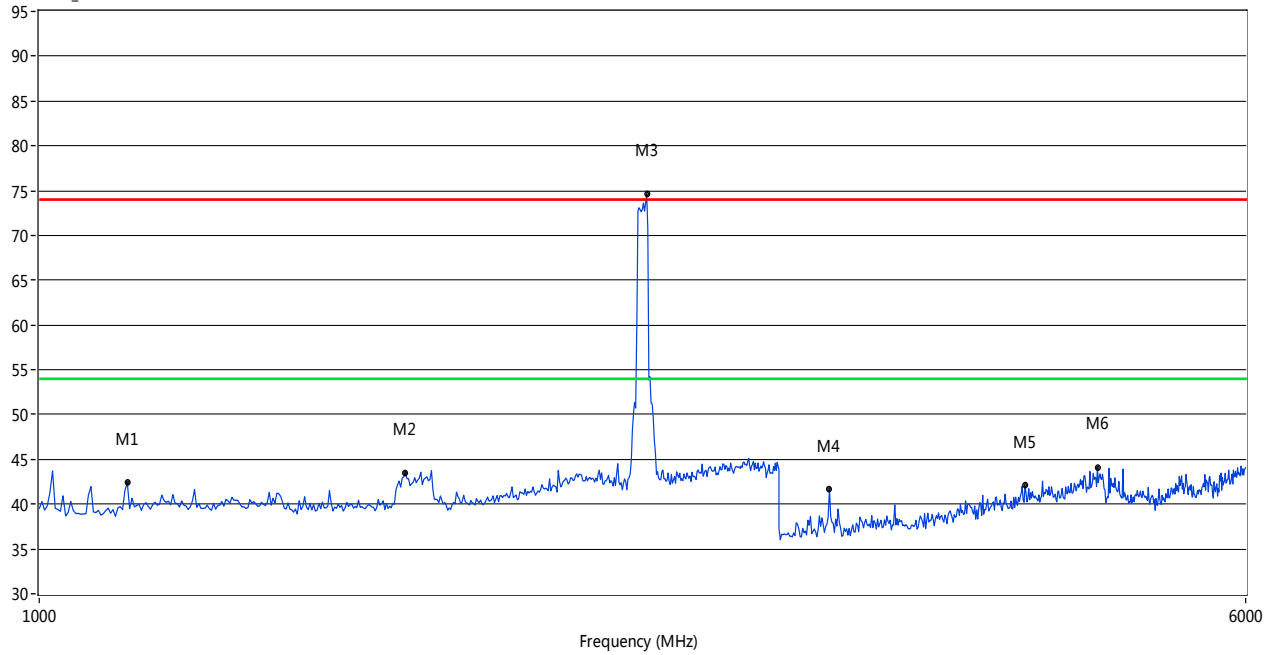
RE Test case_FCC 15C 1GHz-6GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	45.15			-4.40	74.0	--	54.0	8.85	359.60	100	Vertical	PASS
1247.50	47.47			-4.10	74.0	--	54.0	6.53	288.60	100	Vertical	PASS
1746.51	43.97			-0.24	74.0	--	54.0	10.03	94.80	100	Vertical	PASS
2457.09	79.69			0.15	74.0	--	54.0	-25.69	343.00	100	Vertical	N/A
3467.07	38.48			8.87	74.0	--	54.0	15.52	14.00	100	Vertical	PASS
5000.00	44.20			12.82	74.0	--	54.0	9.80	2.00	100	Vertical	PASS

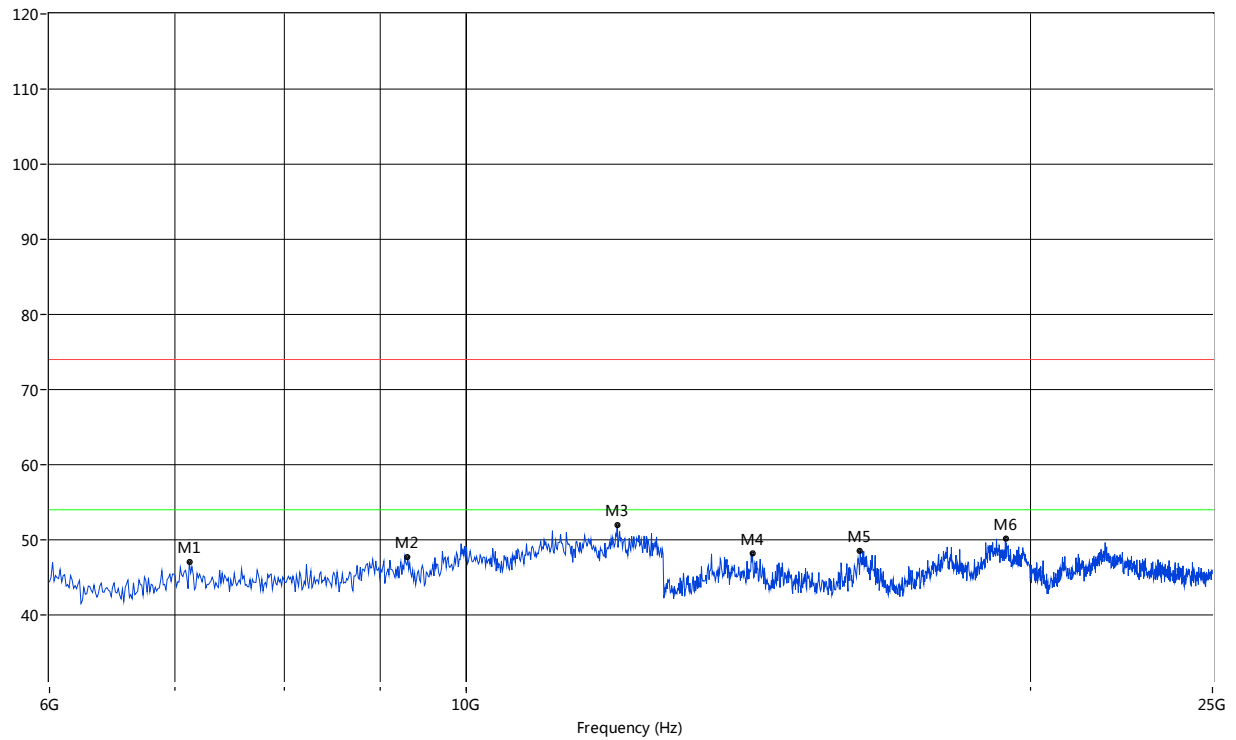
802.11n-40MHz HIGH MODE 1GHz to 6GHz, ANT H

RE Test case_FCC 15C 1GHz-6GHz



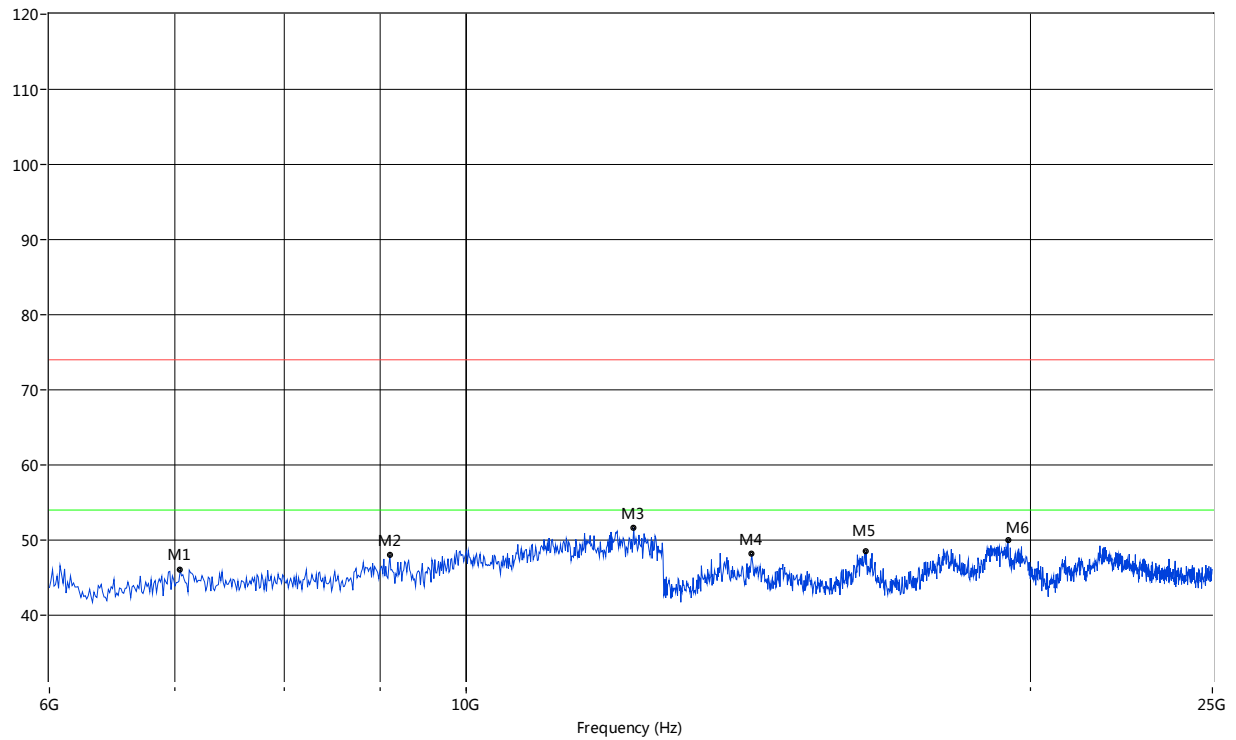
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
1139.72	42.43			-4.40	74.0	--	54.0	11.57	360.00	100	Horizontal	PASS
1722.55	43.54			-0.32	74.0	--	54.0	10.46	59.00	100	Horizontal	PASS
2465.07	74.57			-0.10	74.0	--	54.0	-20.57	9.30	100	Horizontal	N/A
3233.53	41.71			8.25	74.0	--	54.0	12.29	0.80	100	Horizontal	PASS
4323.35	42.07			10.70	74.0	--	54.0	11.93	117.00	100	Horizontal	PASS
4814.37	44.12			12.45	74.0	--	54.0	9.88	103.40	100	Horizontal	PASS

802.11n-40MHz HIGH MODE 6GHz to 25GHz, ANT V



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7123.13	46.99	--	--	74.0	--	54.0	27.01	308	100	Vertical	PASS
9313.23	47.67	--	--	74.0	--	54.0	26.33	188	100	Vertical	PASS
12042.43	51.90	--	--	74.0	--	54.0	22.10	322	100	Vertical	PASS
14216.31	48.15	--	--	74.0	--	54.0	25.85	351	100	Vertical	PASS
16223.38	48.59	--	--	74.0	--	54.0	25.41	355	100	Vertical	PASS
19389.35	50.17	--	--	74.0	--	54.0	23.83	177	100	Vertical	PASS

802.11n-40MHz HIGH MODE 6GHz to 25GHz, ANT H



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Table (o)	Height (cm)	Antenna	Verdict
7044.51	46.02	--	--	74.0	--	54.0	27.98	310	100	Horizontal	PASS
9111.07	47.95	--	--	74.0	--	54.0	26.05	6	100	Horizontal	PASS
12289.52	51.64	--	--	74.0	--	54.0	22.36	8	100	Horizontal	PASS
14205.91	48.12	--	--	74.0	--	54.0	25.88	288	100	Horizontal	PASS
16348.17	48.46	--	--	74.0	--	54.0	25.54	239	100	Horizontal	PASS
19449.25	49.99	--	--	74.0	--	54.0	24.01	37	100	Horizontal	PASS

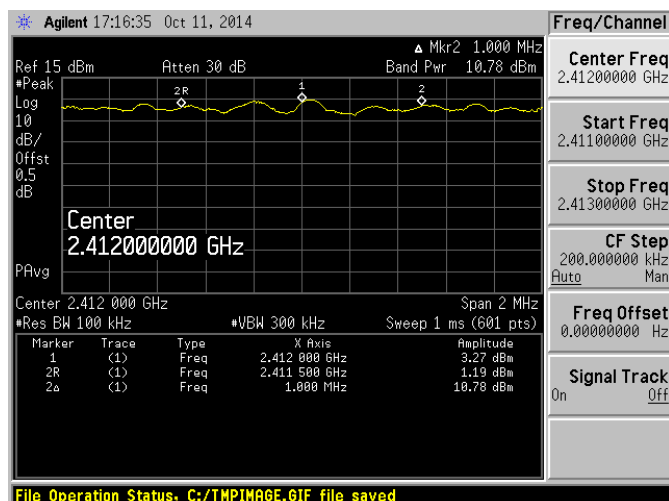
A.6 Band Edge

Test Data

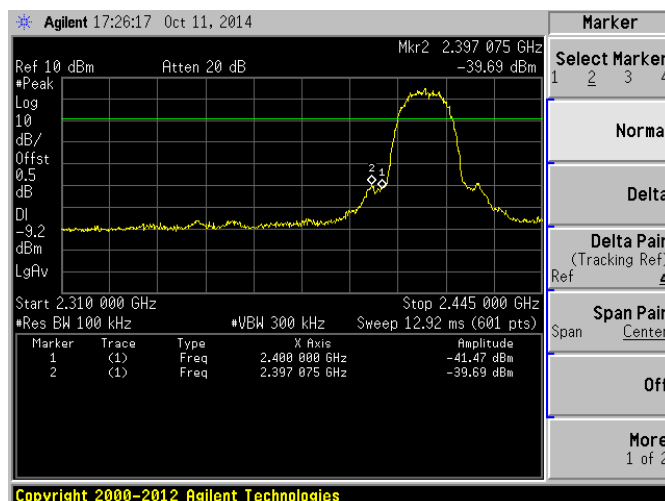
The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Test Plots

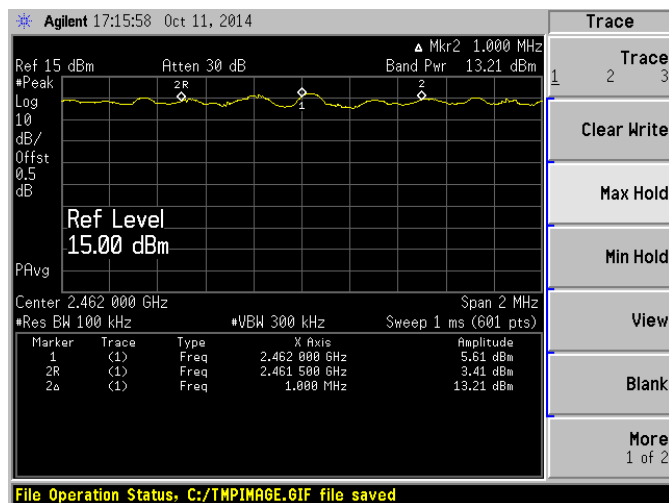
802.11b LOW CHANNEL, Reference level



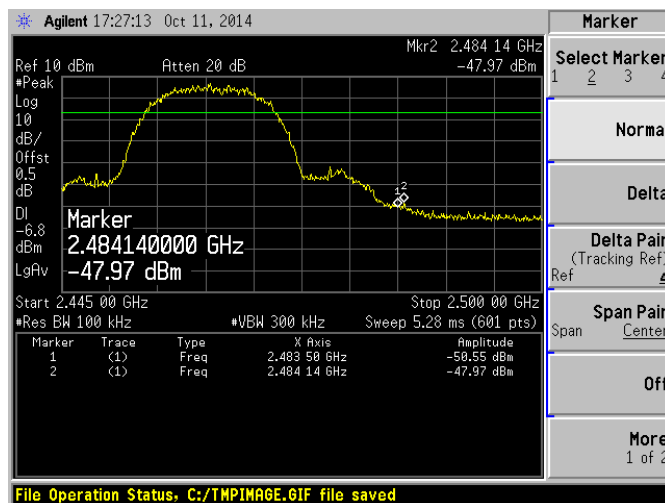
802.11b LOW CHANNEL, Band Edge



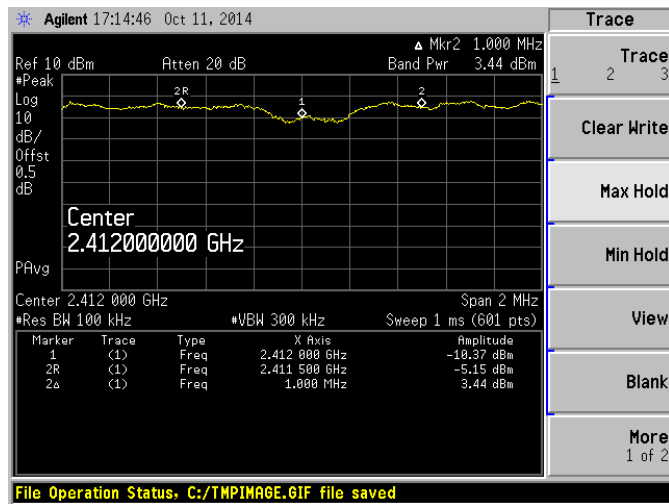
802.11b HIGH CHANNEL, Reference level



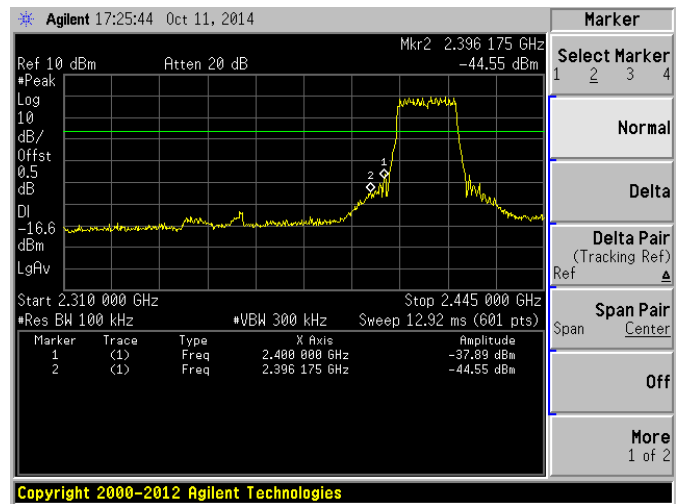
802.11b HIGH CHANNEL, Band Edge



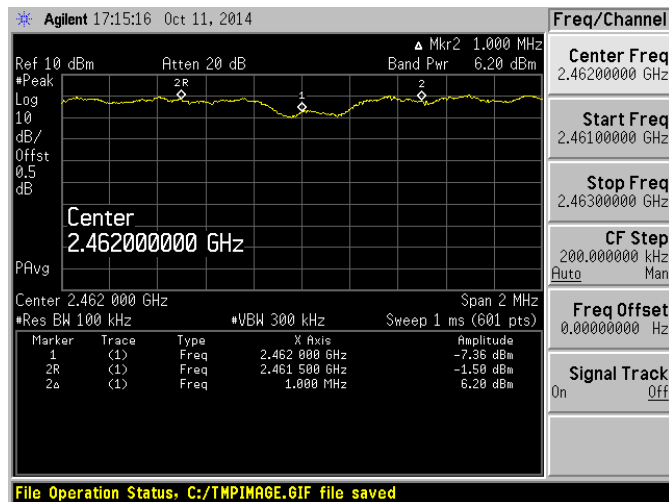
802.11g LOW CHANNEL, Reference level



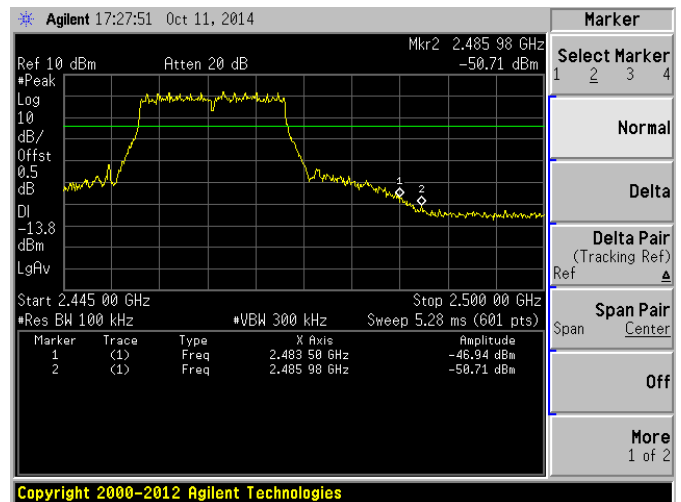
802.11g LOW CHANNEL, Band Edge



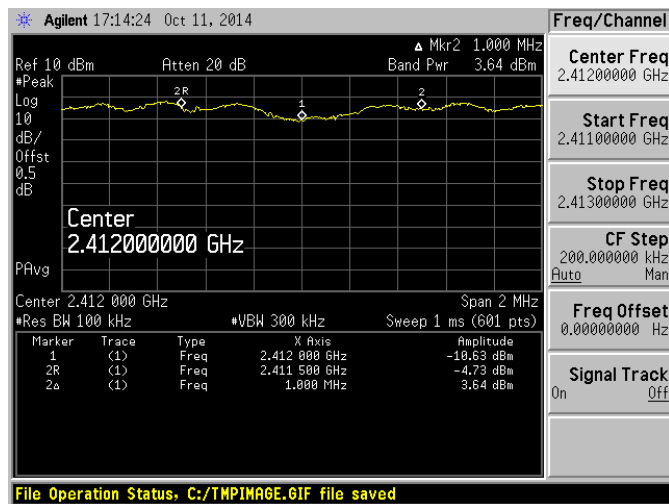
802.11g HIGH CHANNEL, Reference level



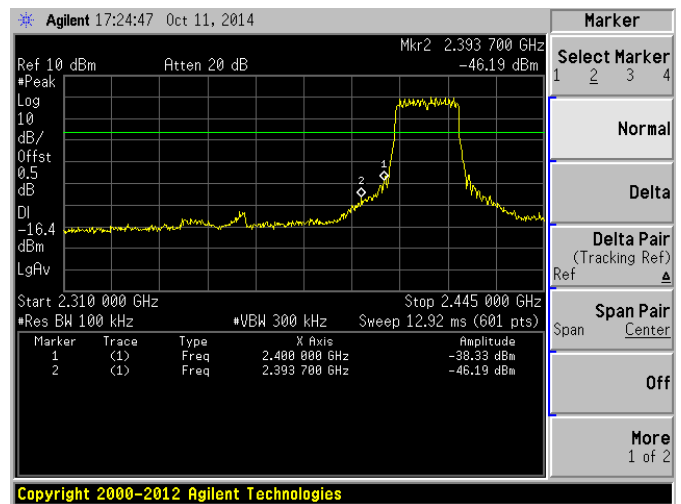
802.11g HIGH CHANNEL, Band Edge



802.11n-20MHz LOW CHANNEL, Reference level

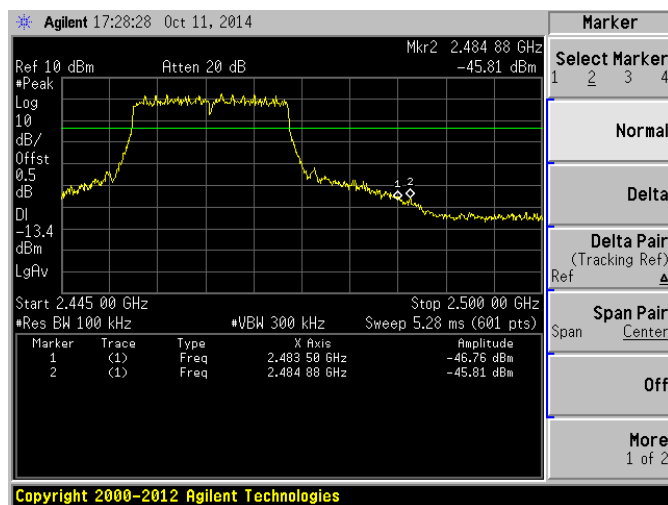
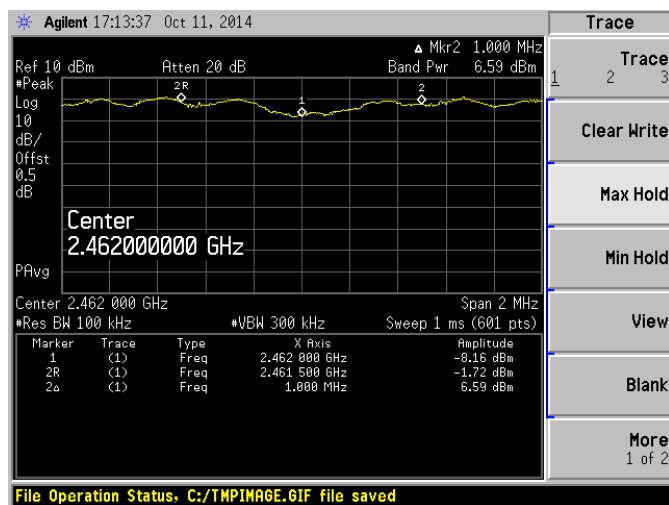


802.11n-20MHz LOW CHANNEL, Band Edge



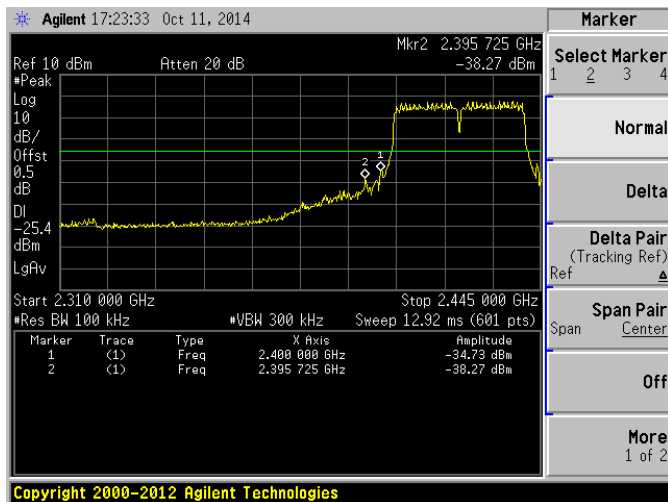
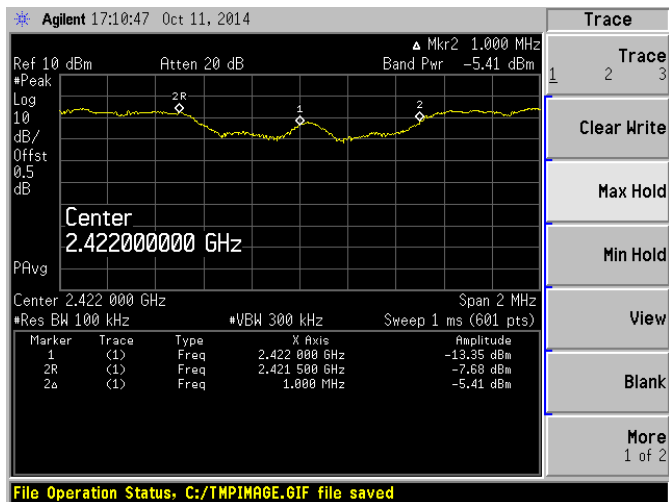
802.11n-20MHz HIGH CHANNEL, Reference level

802.11n-20MHz HIGH CHANNEL, Band Edge



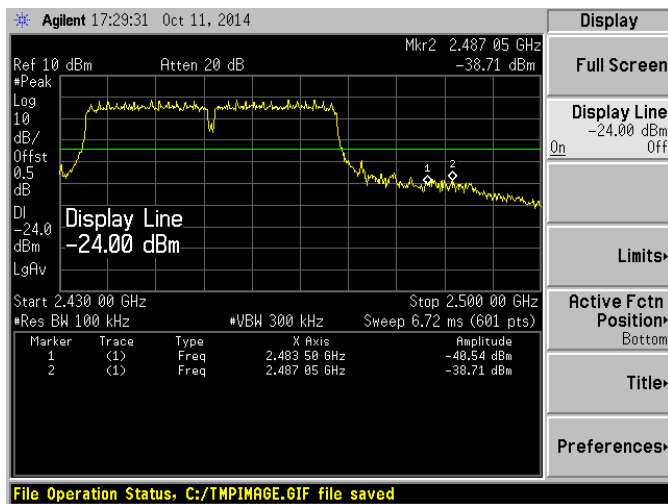
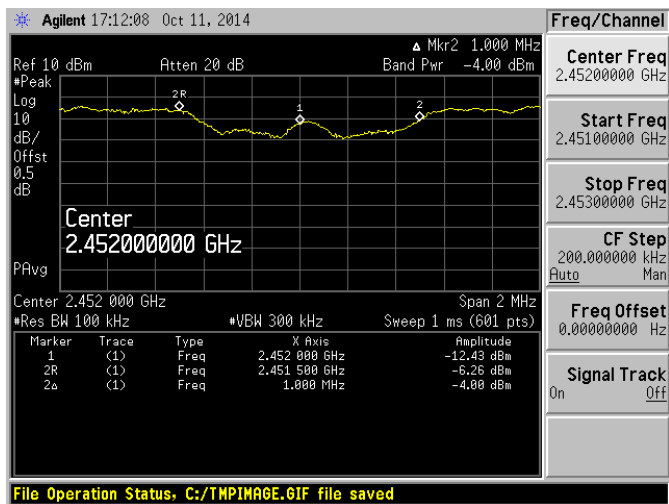
802.11n-40MHz LOW CHANNEL, Reference level

802.11n-40MHz LOW CHANNEL, Band Edge



802.11n-40MHz HIGH CHANNEL, Reference level

802.11n-40MHz HIGH CHANNEL, Band Edge



A.7 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.03	8
Middle	-9.63	8
High	-7.98	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.02	8
Middle	-15.51	8
High	-13.54	8

802.11n-20MHz Mode:

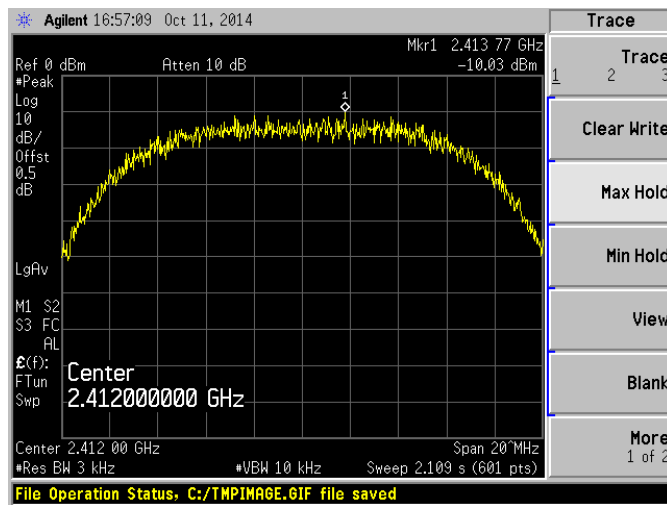
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.65	8
Middle	-15.03	8
High	-12.87	8

802.11n-40MHz Mode:

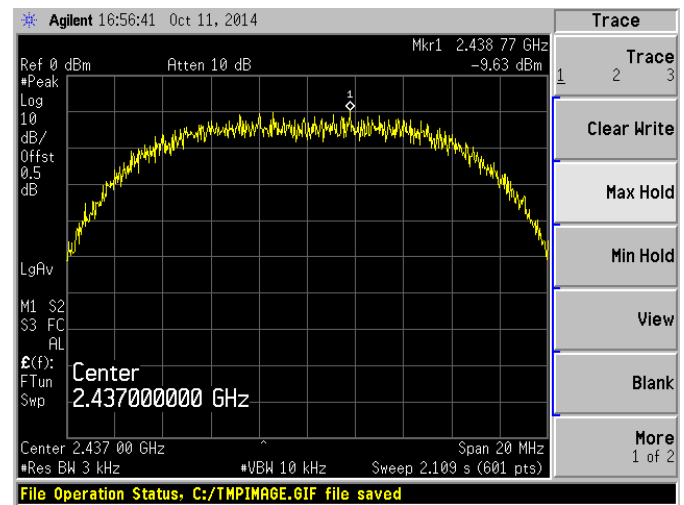
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.10	8
Middle	-17.42	8
High	-16.64	8

Test plots

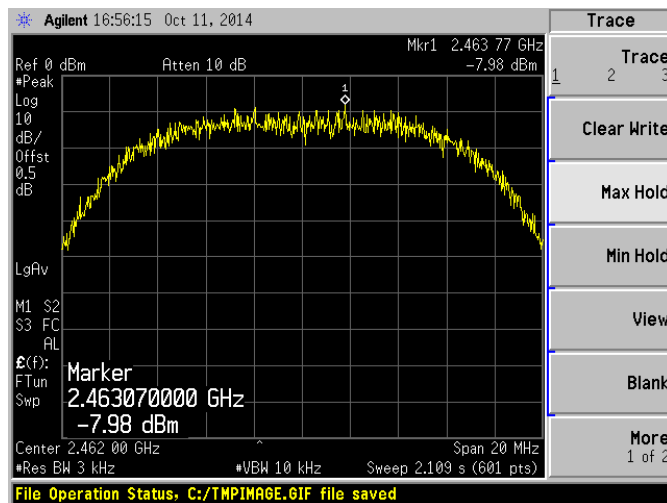
802.11b LOW CHANNEL



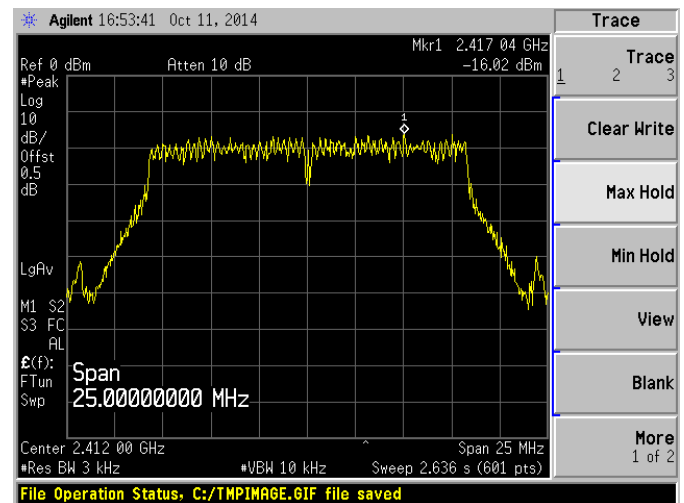
802.11b MID CHANNEL



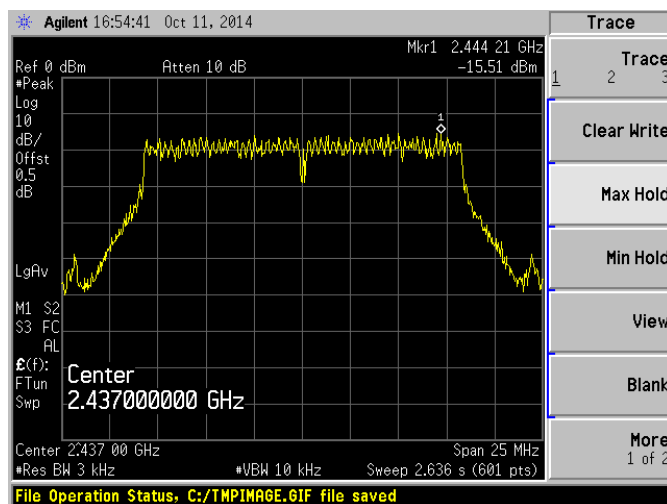
802.11b HIGH CHANNEL



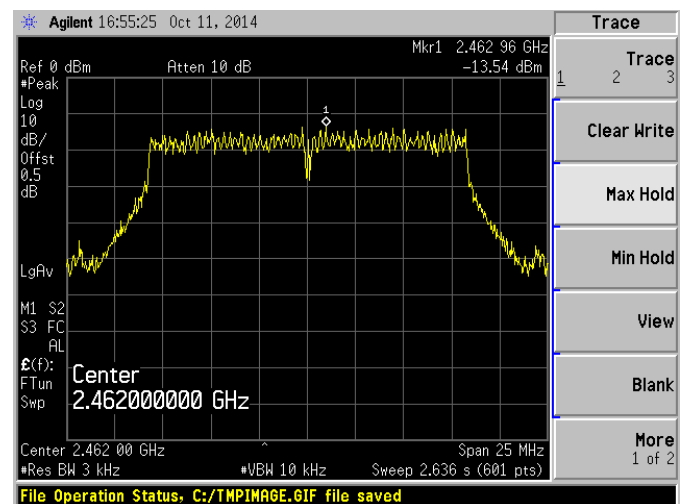
802.11g LOW CHANNEL



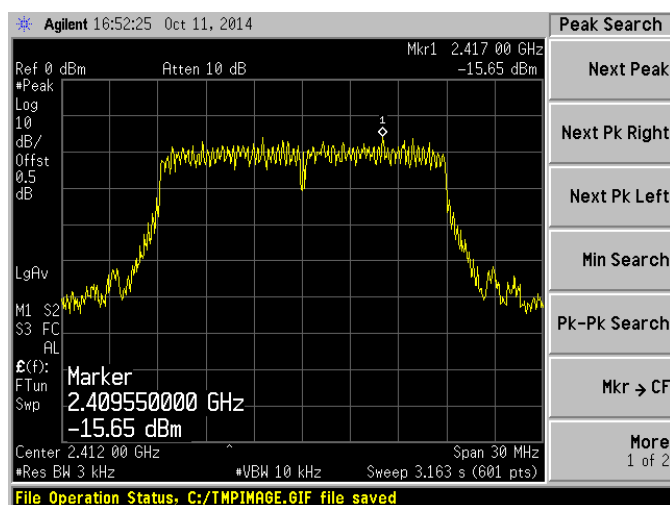
802.11g MID CHANNEL



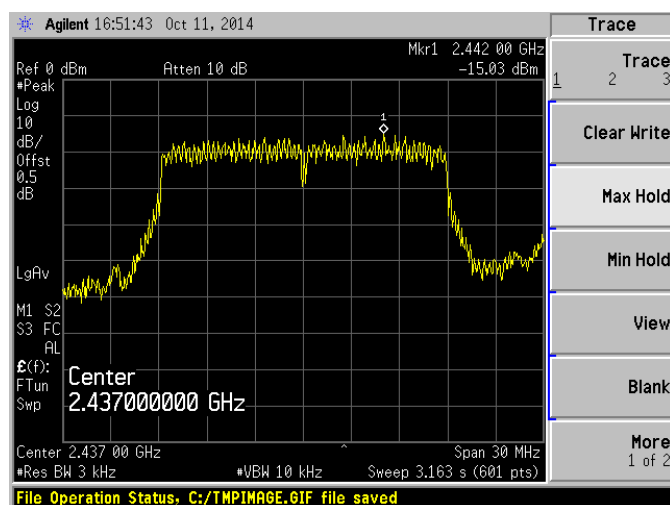
802.11g HIGH CHANNEL



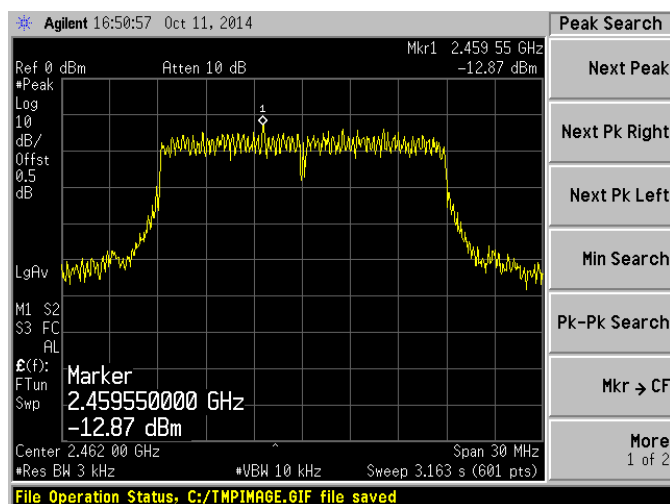
802.11n-20MHz LOW CHANNEL



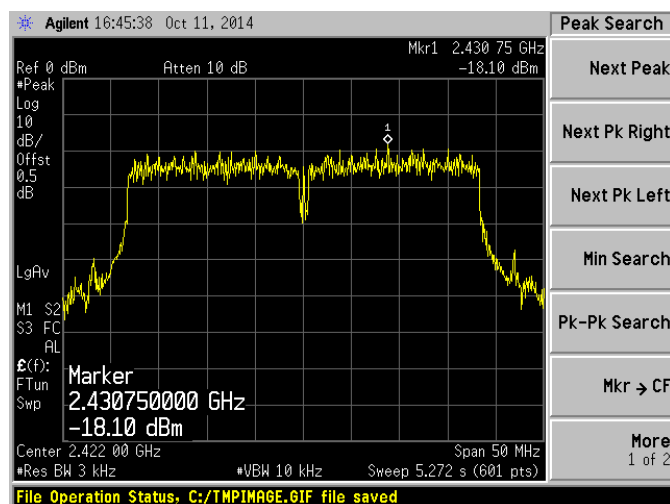
802.11 n-20MHz MID CHANNEL



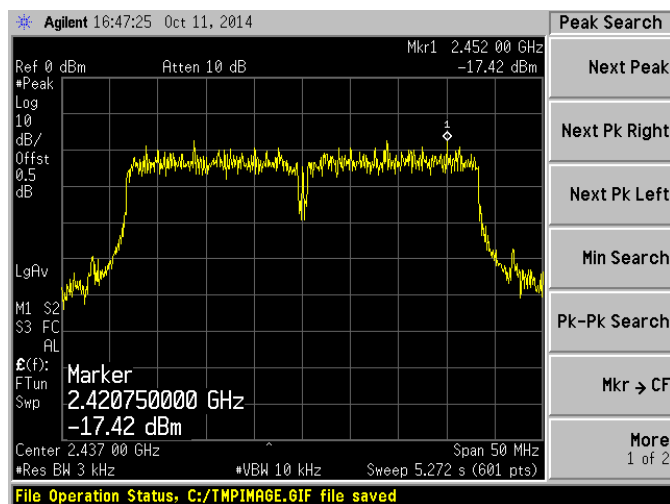
802.11n-20MHz HIGH CHANNEL



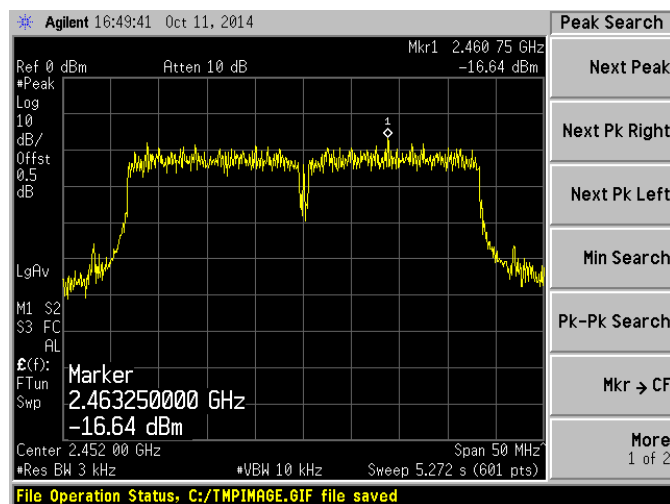
802.11n-40MHz LOW CHANNEL



802.11n-40MHz MID CHANNEL

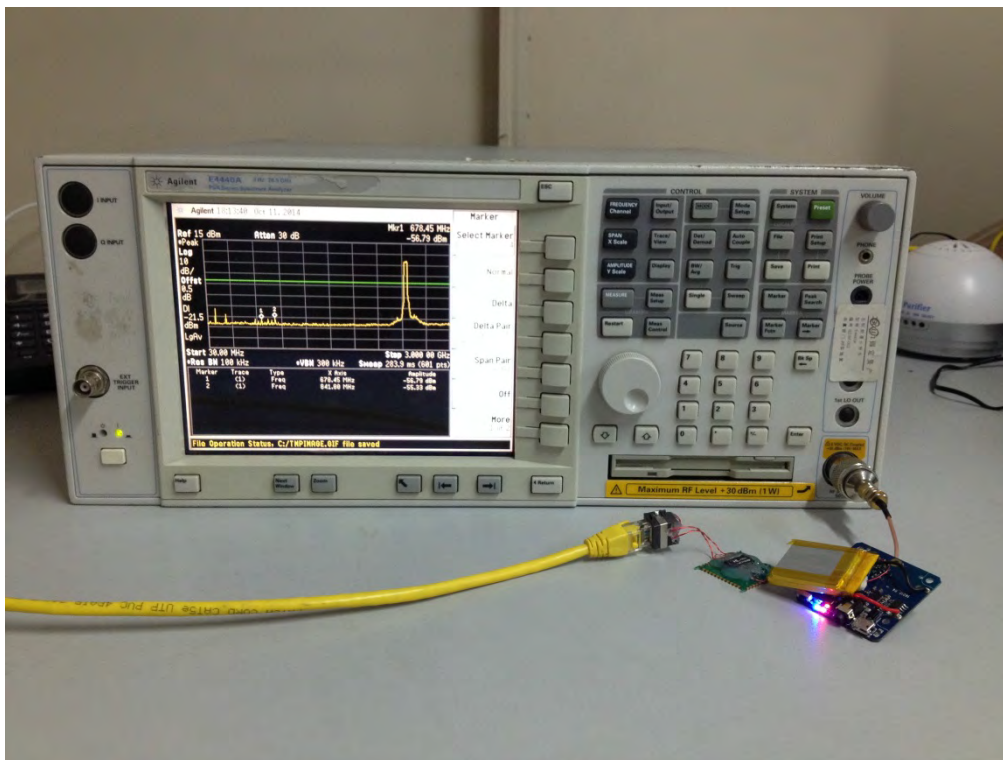


802.11n-40MHz HIGH CHANNEL

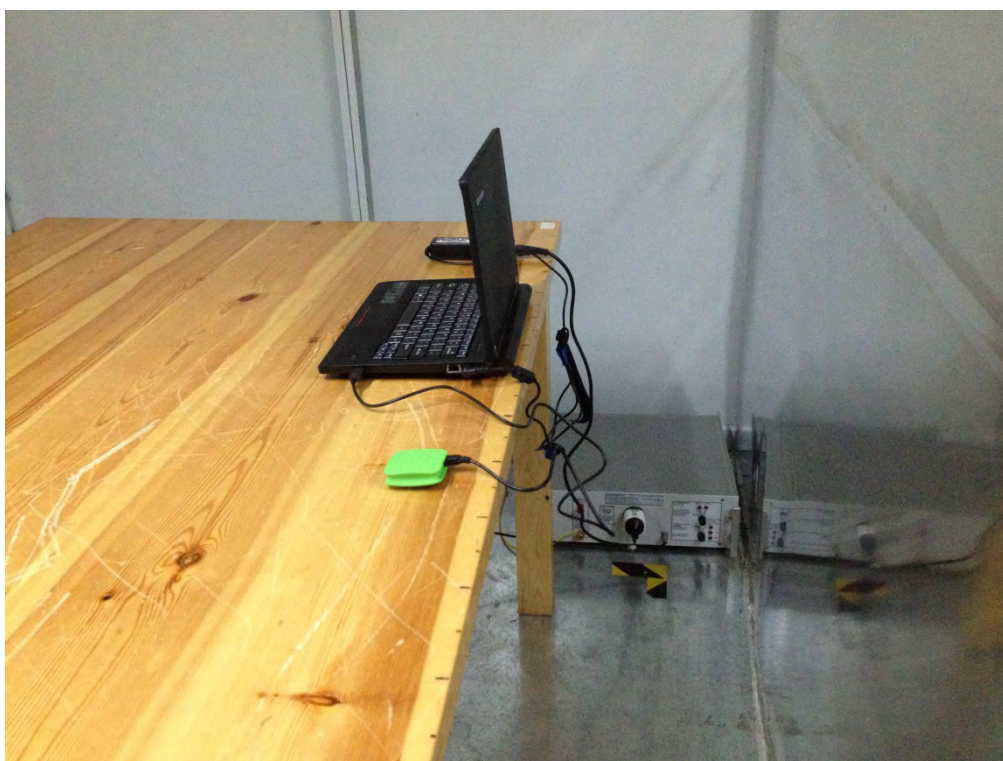


ANNEX B TEST SETUP PHOTOS

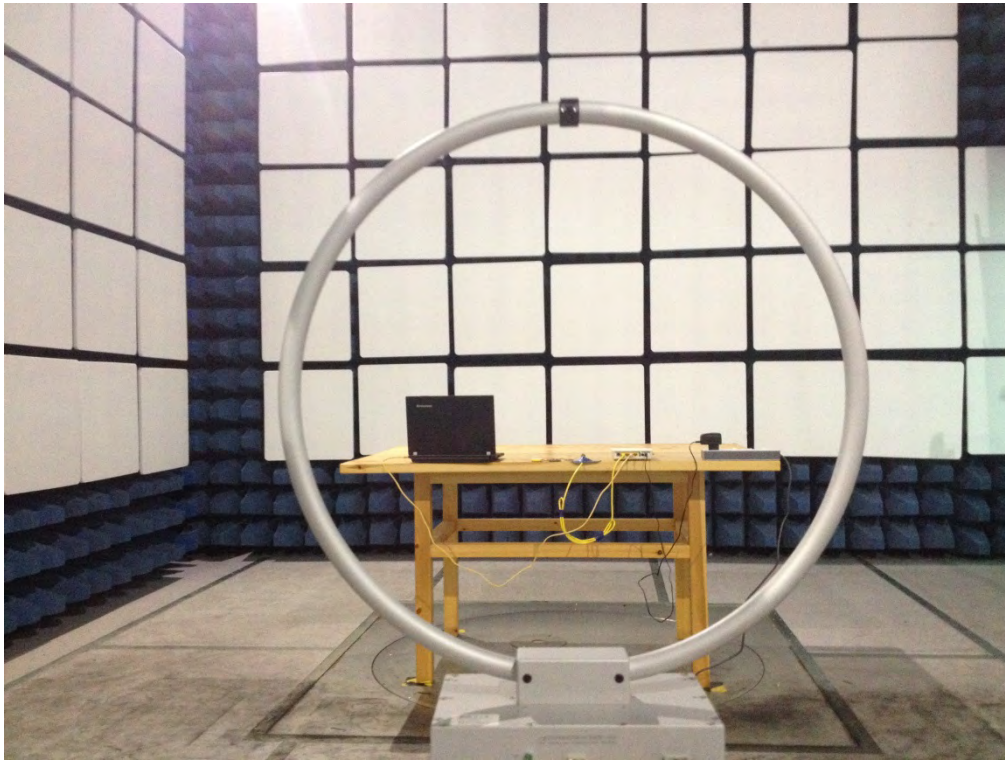
B.1. Conducted Test Photo



B.2. Conducted Emissions Test Photo



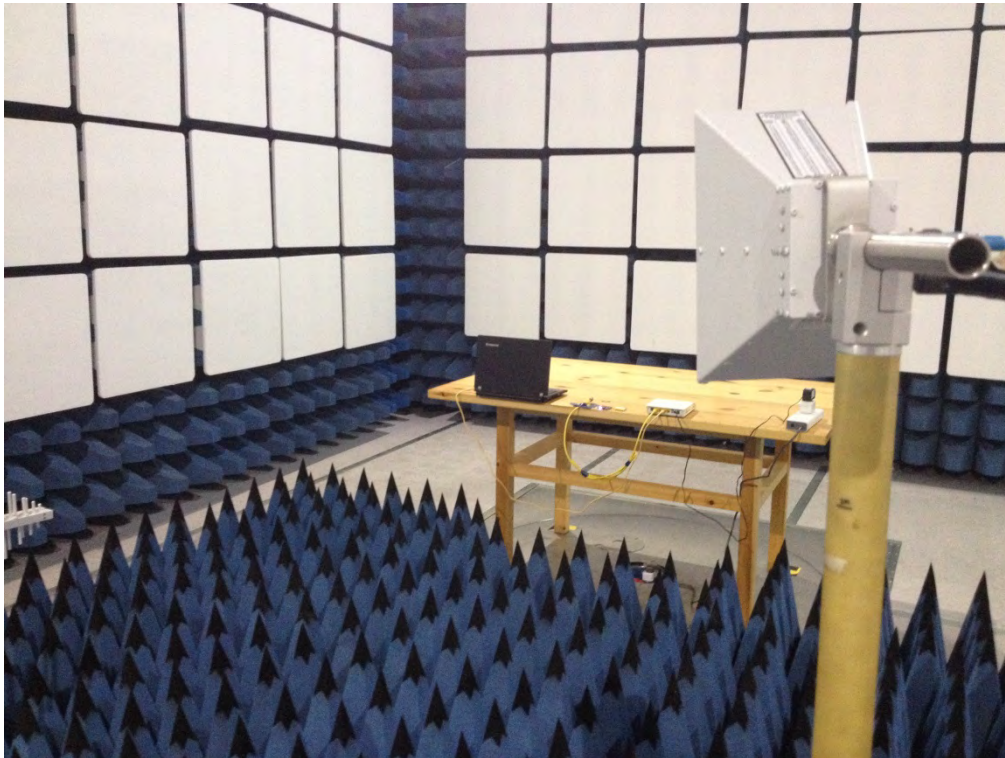
B.3. Radiated Test Photo



Below 30MHz



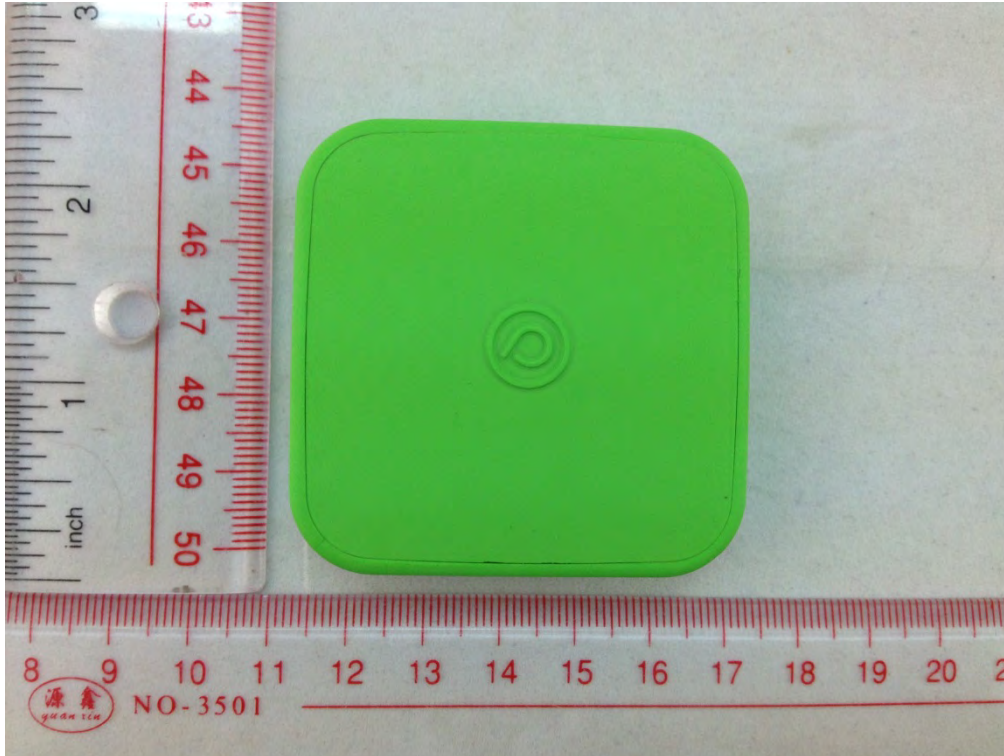
30MHz to 1GHz



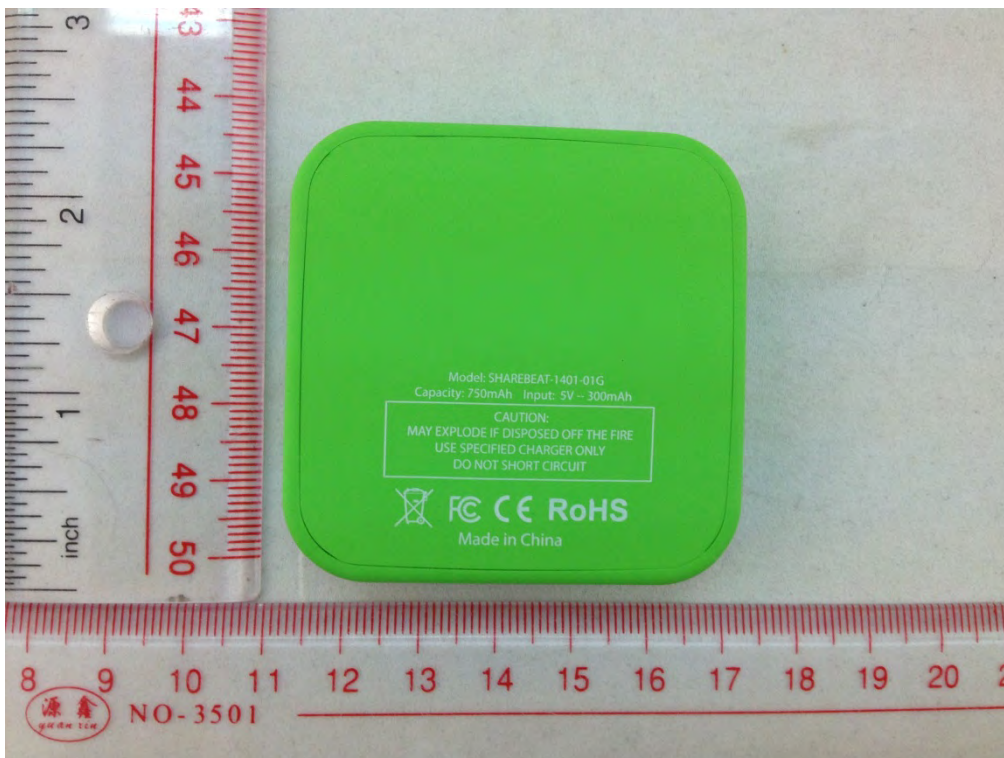
Above 1GHz

ANNEX C EUT PHOTOS

C.1 Appearance of the EUT



THE FRONT OF EUT



THE BACK OF EUT



THE DOWN OF EUT



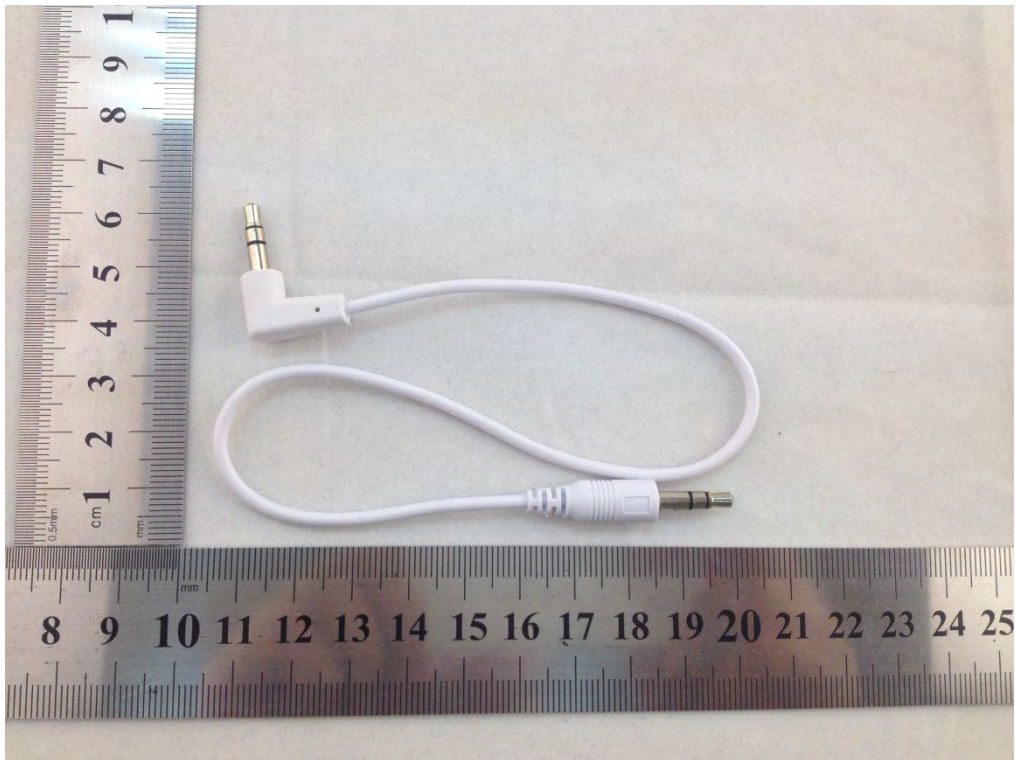
THE UP OF EUT



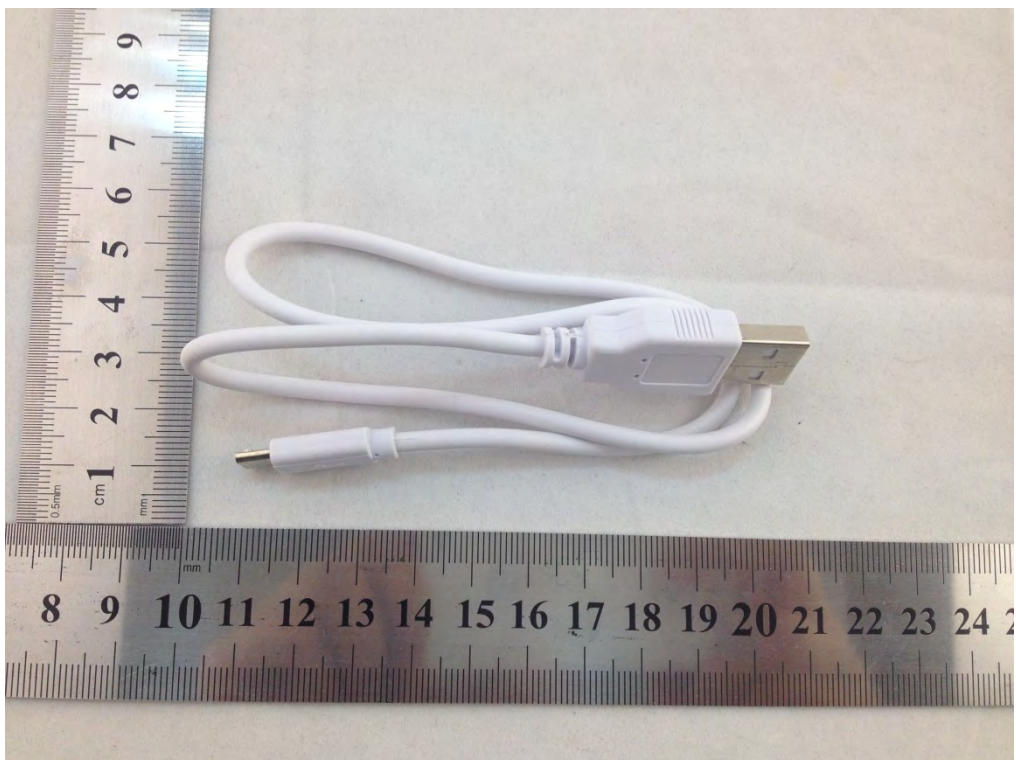
THE LEFT OF EUT



THE RIGHT OF EUT

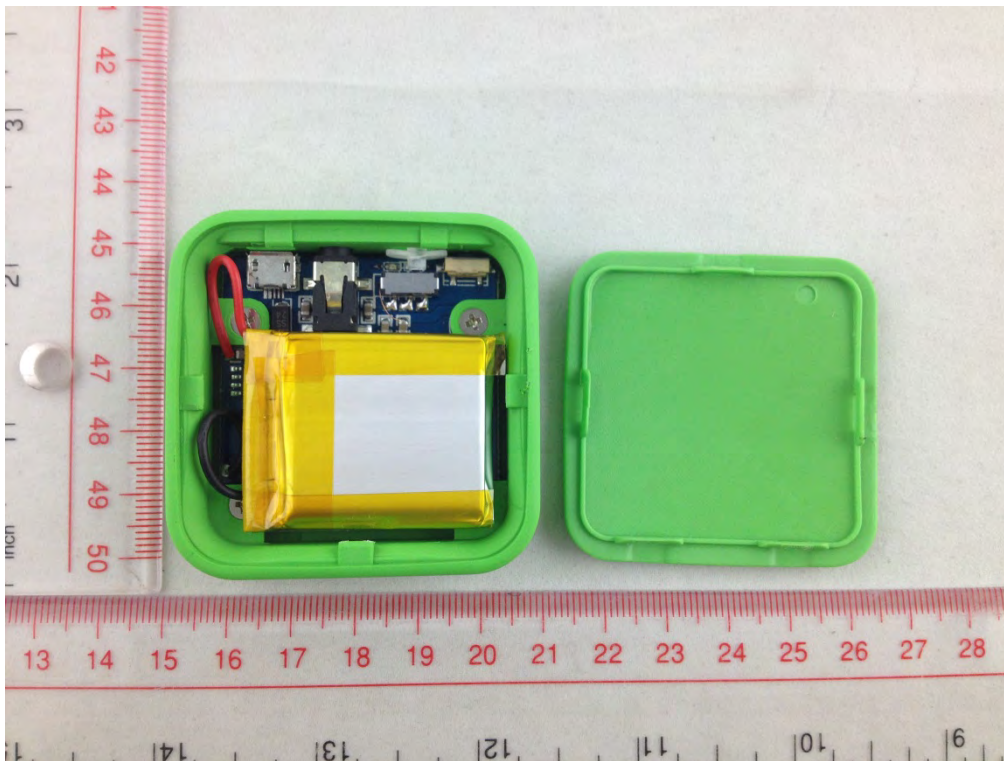


AUDIO LINE

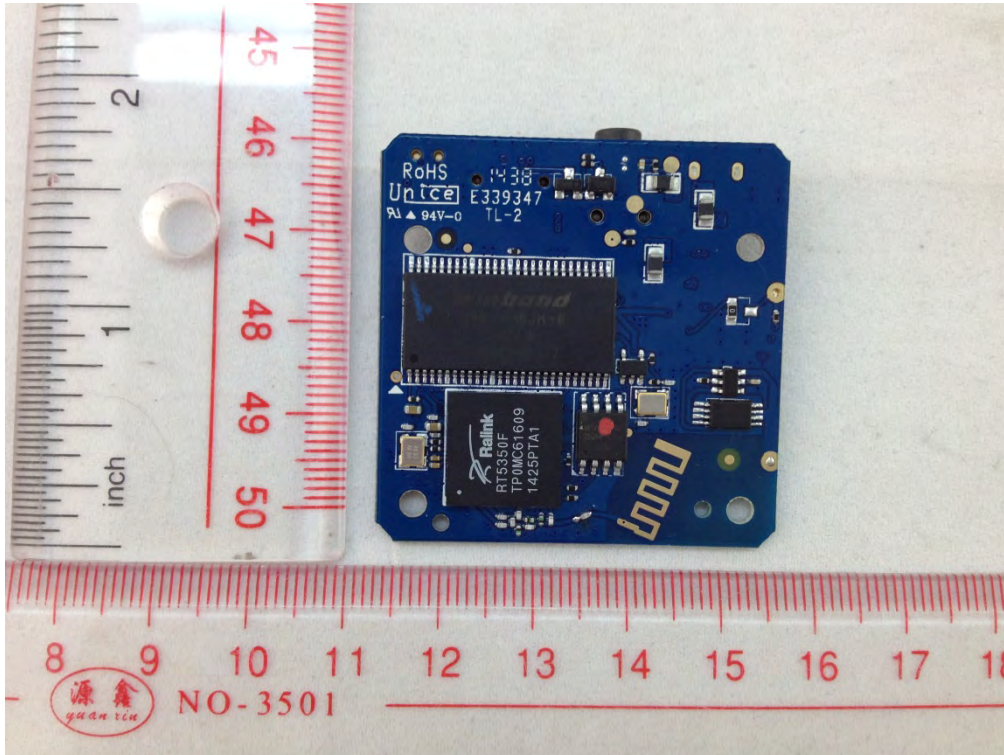


USB CABLE

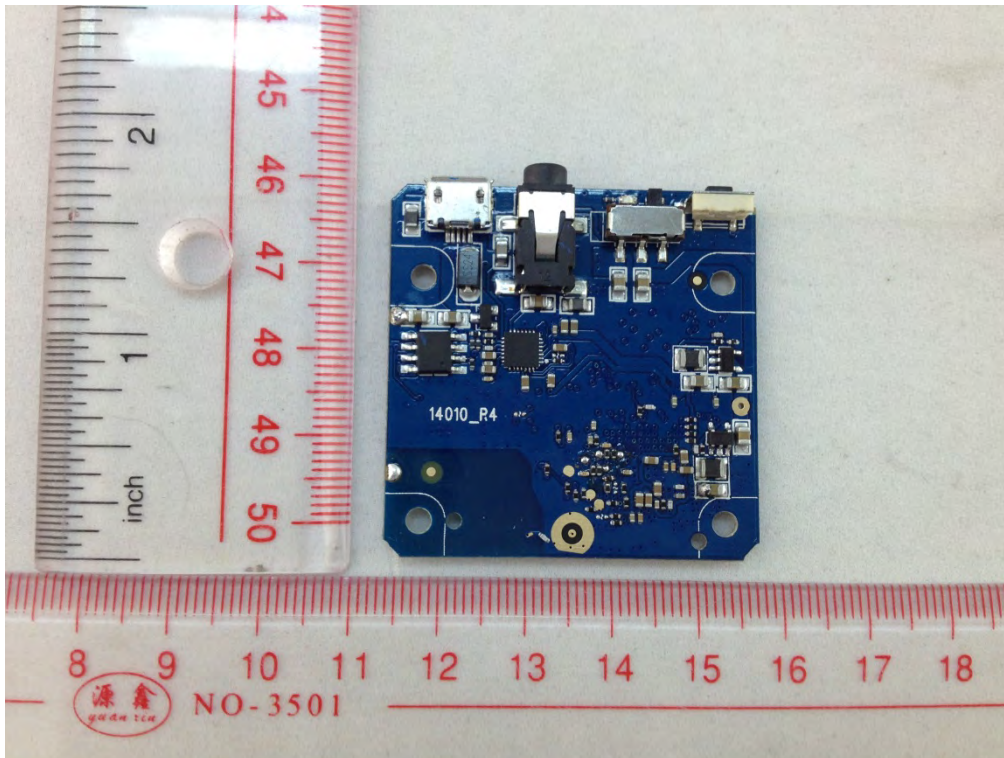
C.2 Inside of the EUT



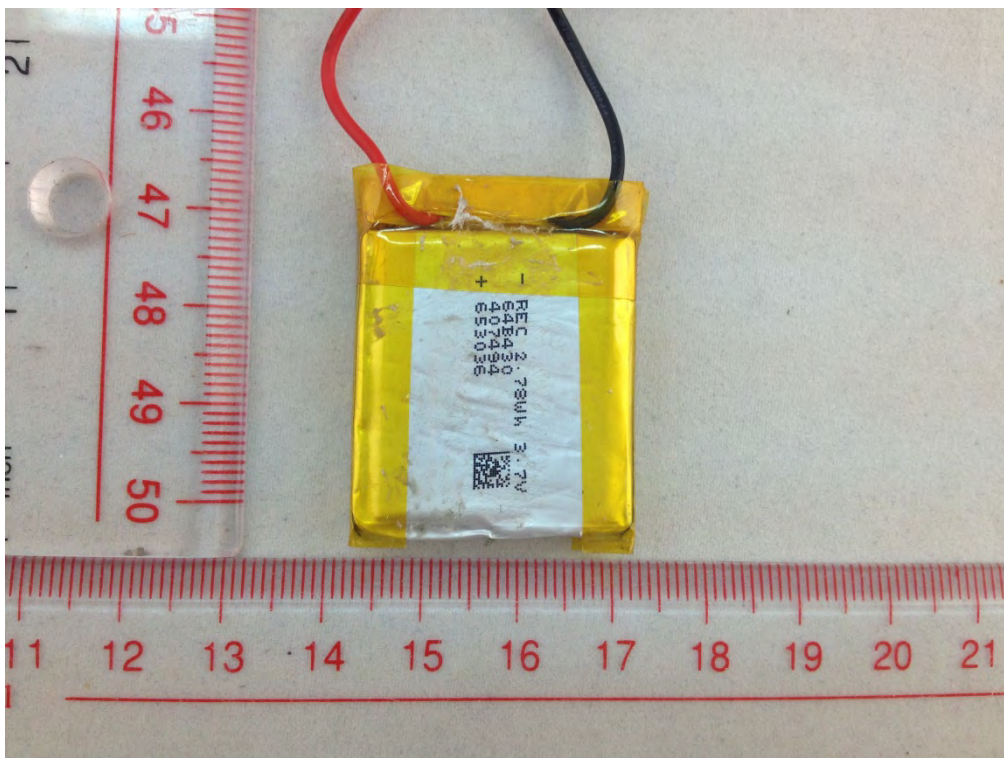
EUT UNCOVER VIEW



MAIN BOARD TOP VIEW



MAIN BOARD DOWN VIEW



BATTERY

--END OF REPORT--