Report No.:SZ10100003W04

FCC/IC TEST REPORT

Issued to

Shinano Kenshi Co., Ltd.

For

Plextalk Pocket

Model Name	PTP1, PTP1/LINK
Trade Name	Plextalk
Brand Name	Plextor
FCC ID	WNU-PTP1A
IC ID	7911A-PTP1A
Standard	47 CFR Part 15 Subpart C RSS-GEN and RSS-210
Test date	February 12,2011 -- June 21, 2011
Issue date	Oct 26, 2011

Shenzhen Morlab Communications Technology Co., Ltd.

Tested by Peng Huarui	*Approved by* Wu Xuewen	*Review by* Zhang Yan
Peng Huarui	Wu Xuewen	Zhang Yan
Date 2011.10.26	*Date* 2011.10.26	*Date* 2011.10.26

CTIA Authorized Test Lab LAB CODE 20081223-00 IEEE 1725 OTA | OFTA 電訊管理局 | ilac-MRA | TAF Testing Laboratory | GCF Official Observer of Global Certification Forum | Bluetooth BQTF | FCC Reg. No. 741109

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Change History		
Issue	Date	Reason for change
1.0	Oct 26, 2011	First edition

1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	:	Plextalk Pocket
Serial No.	:	(n.a, marked #1 by test site)
Hardware Version	:	PTP1 (TLA 0609), PTP1/LINK (TLA0709)
Software Version	:	V1.00.0078
Applicant	:	Shinano Kenshi Co., Ltd. 1078, Kami-Maruko, Ueda-Shi, Nagano-Ken, 386-0498, Japan
Manufacturer	:	GROUP SENSE (International) Ltd 6th Floor, Building 9, No.5 Science Park West Avenue, Hong Kong Science Park, Shatin, New Territories, Hong Kong
Frequency Range	:	802.11b/g-20MHz: 2.412GHz - 2.462GHz
Modulation Type	:	DSSS,OFDM

Note 1: The EUT is Plextalk Pocket Support Wi-Fi Module, with 802.11b/g interface. The Wi-Fi Module was tested in this report.

Note 2: The EUT have two sample which is the model name is PTP1/LINK (Without iNAND) and PTP1 (With iNAND). During the measurement, the PTP1/LINK was used.

Note 3: The frequencies allocated is F(MHz)=2412+5*(n-1) (1<=n<=11). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz).

Note 4: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Wi-Fi, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-09 Edition)	Radio Frequency Devices
2	RSS-210: Issue 7, June 2007	Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

Test detailed items/section required by FCC rules and results are as below:

No.	Section in CFR 47	Section in RSS-GEN or RSS-210	Description	Result
1	15.247(a)	A8.1 (4)	Number of Hopping Frequency	(n.a)
2	15.247(b)	A8.4 (2)	Peak Output Power	PASS
3	15.247(a)	A8.1 (1)	Bandwidth	PASS
4	15.247(a)	A8.1 (2)	Carrier Frequency Separation	(n.a)
5	15.247(a)	A8.1 (4)	Time of Occupancy (Dwell time)	(n.a)
6	15.247(c)	A8.5	Conducted Spurious Emission	PASS
7	15.247(c)	A8.5	Band Edge	PASS
8	15.207	7.2.2	Conducted Emission	PASS
9	15.209 15.247(c)	A8.5	Radiated Emission	PASS
10	15.247(d)	A8.1 (4)	Power spectral density (PSD)	PASS

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.4 2009.

1.3 Facilities and Accreditations

1.3.1 Facilities

Shenzhen Morlab Communications Technology Co., Ltd. Morlab 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 L1659.

All measurement facilities used to collect the measurement data are located at 3/F, Electronic Testing Building, Shahe Road, Xili, Nanshan District, Shenzhen, 518055 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22; the FCC registration number is 741109.

1.3.2 Test Environment Conditions

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

Temperature (°C):	20 - 25
Relative Humidity (%):	40 - 60
Atmospheric Pressure (kPa):	96

2. 47 CFR PART 15C REQUIREMENTS

2.1 Peak Output Power

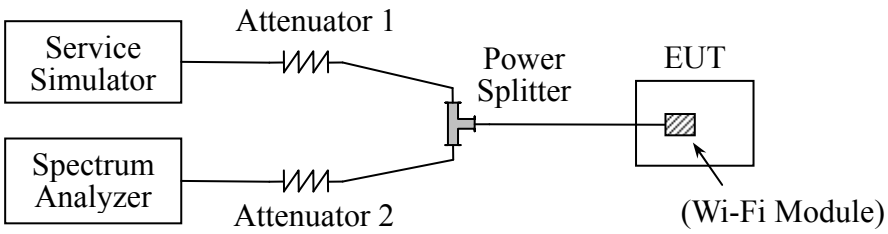
2.1.1 Requirement

According to FCC section 15.247(b)(1) and RSS-210 A8.1 (4), for frequency hopping systems that operates in the 2400MHz to 2483.5MHz band employing at least 75 hopping channels, the maximum peak output power of the intentional radiator shall not exceed 1Watt. For all other frequency hopping systems in the 2400MHz to 2483.5MHz band, it is 1Watts.

2.1.2 Test Description

The measured output power was calculated by the reading of the Power Meter and calibration.

A. Test Setup:



The EUT of the 3G Mobile Phone, which is powered by the Battery, is coupled to the Power Meter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.1.3 Test Result

The EUT operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

3.1.3.1 802.11b Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	9.60	0.0091	30	1	PASS
6	2437	11.20	0.0132			PASS
11	2462	12.46	0.0176			PASS

3.1.3.2 802.11g Test mode

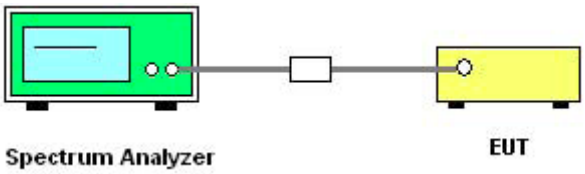
Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	6.25	0.0042	30	1	PASS
6	2437	9.78	0.0095			PASS
11	2462	6.85	0.0048			PASS

2.2 Bandwidth

2.2.1 Definition

According to FCC §15.247(a)(1) and RSS-210 A8.1 (1),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.

2.2.2 Test Description



The EUT of the EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.2.2.1 Test Result

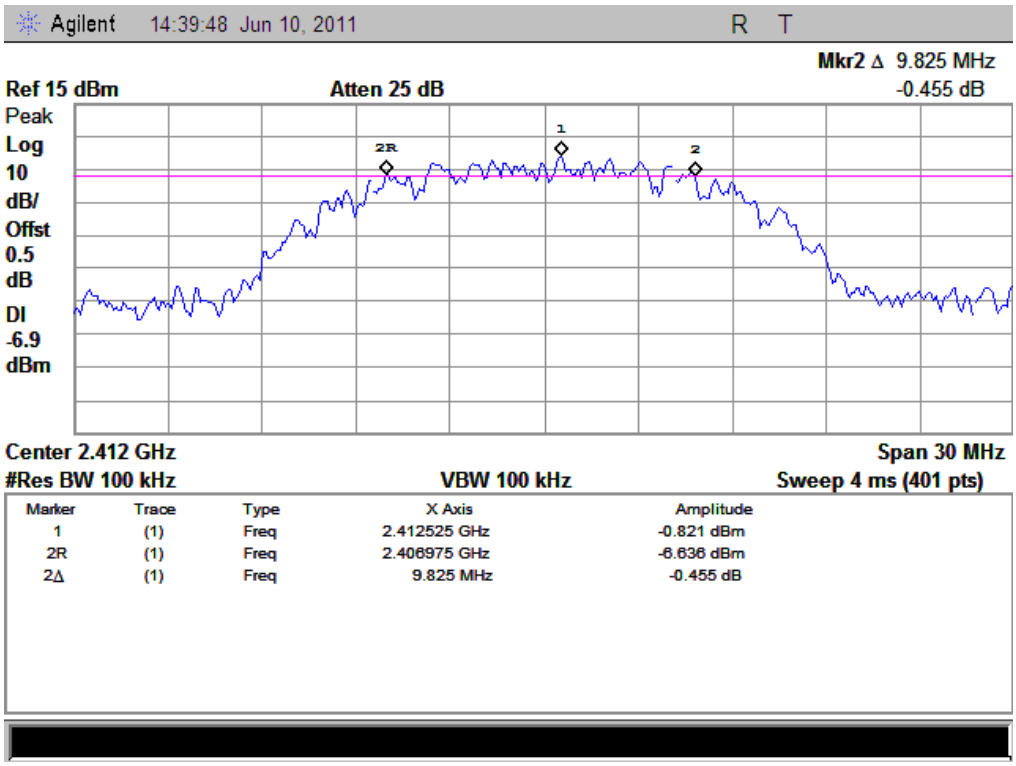
The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the Module.

3.2.3.1 802.11b Test mode

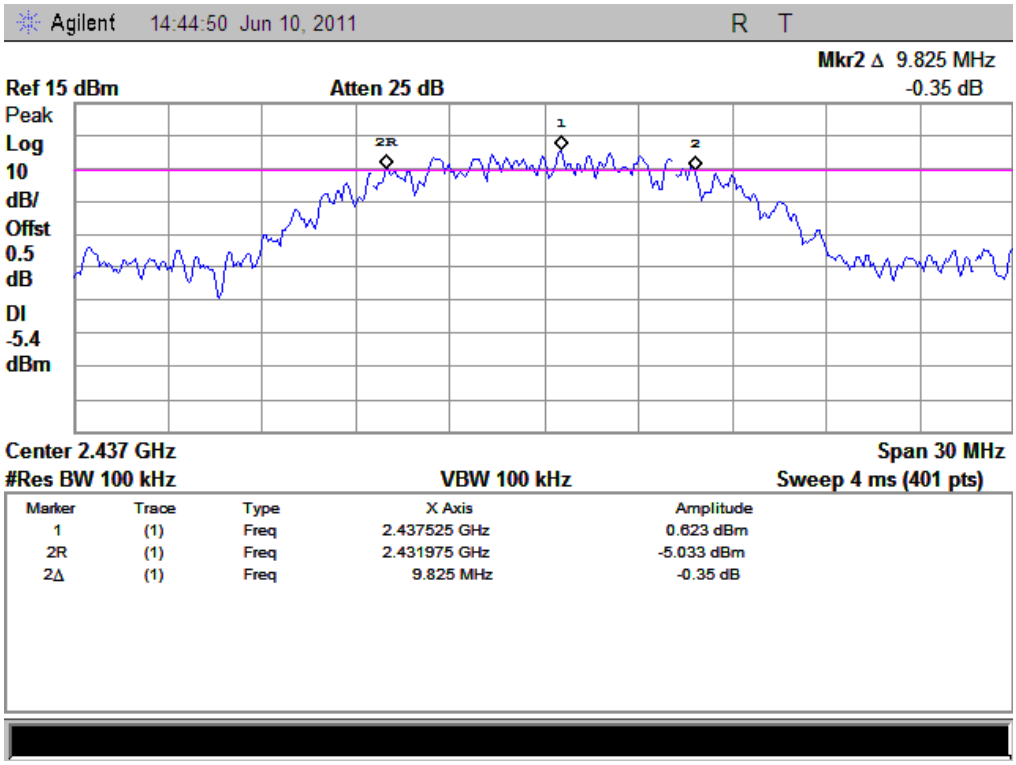
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits(kHz)	Result
1	2412	9.825	Plot A	≥500	PASS
6	2437	9.825	Plot B	≥500	PASS
11	2462	10.350	Plot C	≥500	PASS

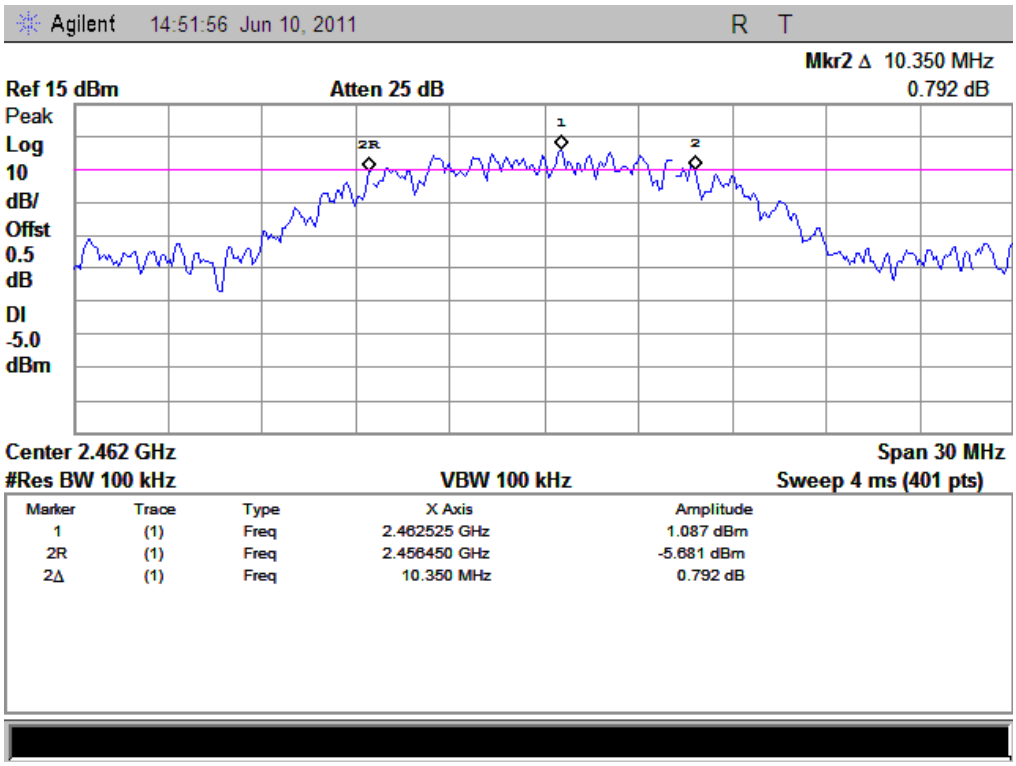
B. Test Plot:



(Plot A: Channel 1: 2412MHz)



(Plot B: Channel 6: 2437 MHz)



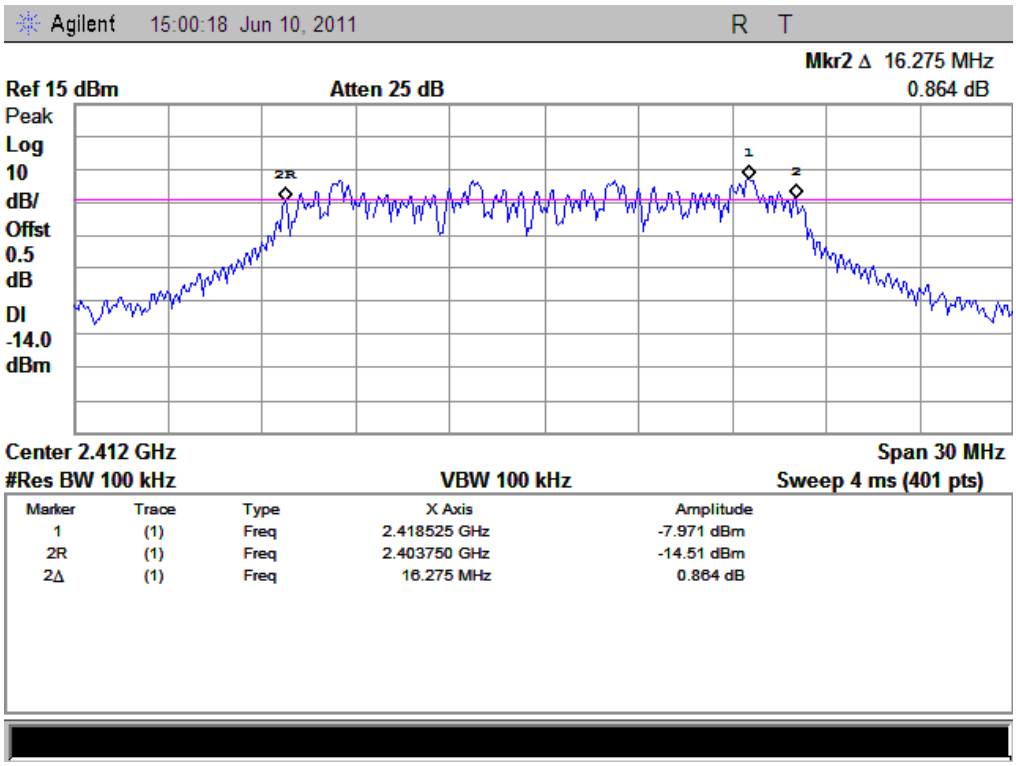
(Plot C: Channel 11: 2462MHz)

3.2.3.2 802.11g Test mode

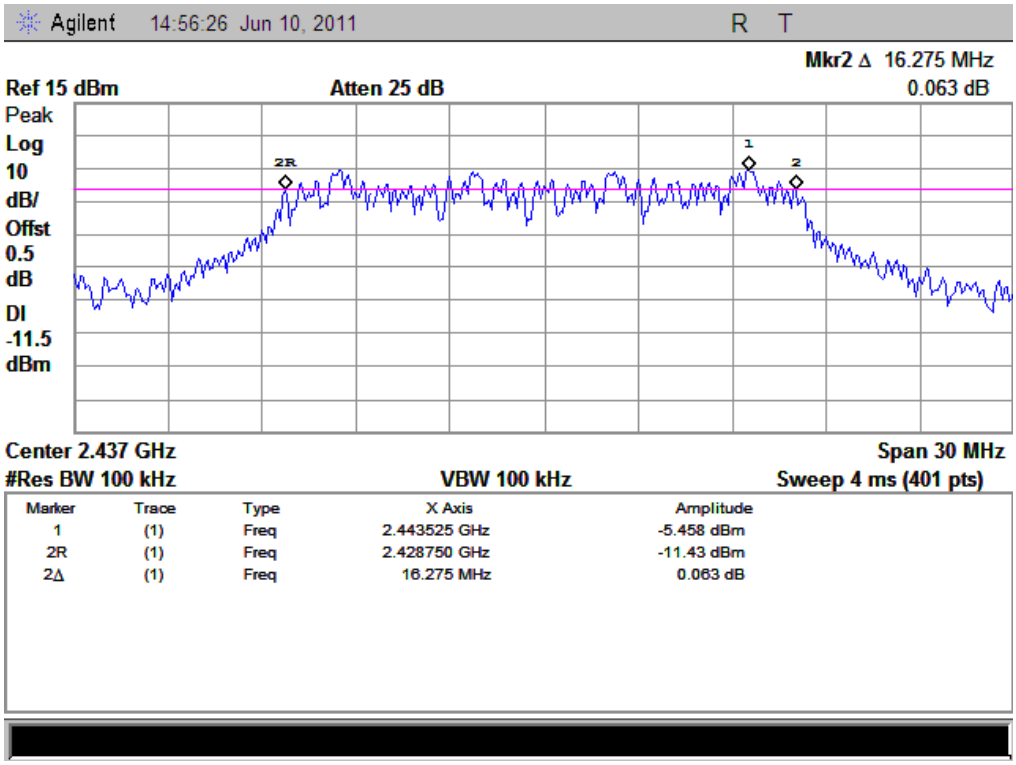
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Refer to Plot	Limits (kHz)	Result
1	2412	16.275	Plot A	≥500	PASS
6	2437	16.275	Plot B	≥500	PASS
11	2462	16.275	Plot C	≥500	PASS

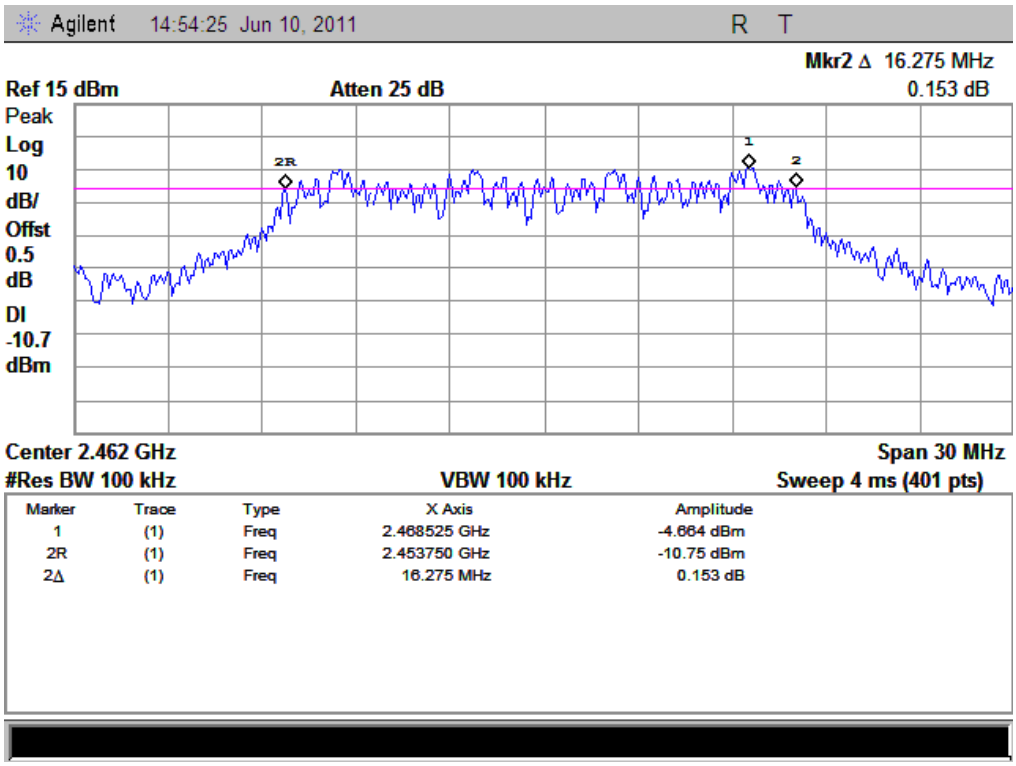
B. Test Plot:



(Plot A: Channel 1: 2412MHz)



(Plot B: Channel 6: 2437MHz)



(Plot C: Channel 11: 2462MHz)

2.3 Conducted Spurious Emissions

2.3.1 Requirement

According to FCC section 15.247(c) and RSS-210 A8.5, 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.

2.3.2 Test Description

See section 2.2.2 of this report.

2.3.3 Test Result

The EUT operates at hopping-off test mode. The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

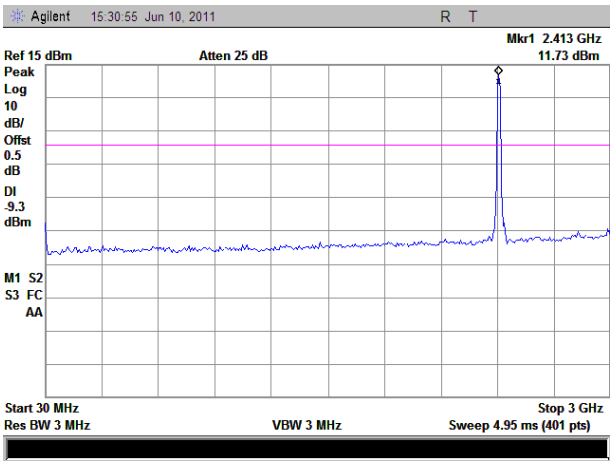
3.3.3.1 802.11b Test mode

A. Test Verdict:

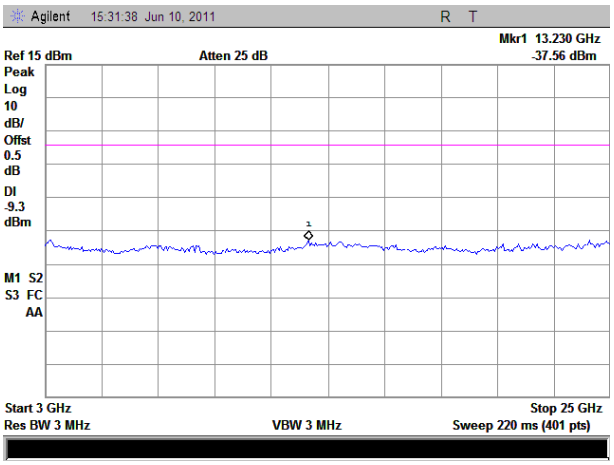
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Refer to Plot	Limit (dBm)		Verdict
				Carrier Level	Calculated -20dBc Limit	
1	2412	-37.56	Plot A.1/A.2	11.73	-9.3	PASS
6	2437	-38.07	Plot B.1/B.2	12.49	-7.5	PASS
11	2462	-37.92	Plot C.1/C.2	12.79	-7.2	PASS

B. Test Plot:

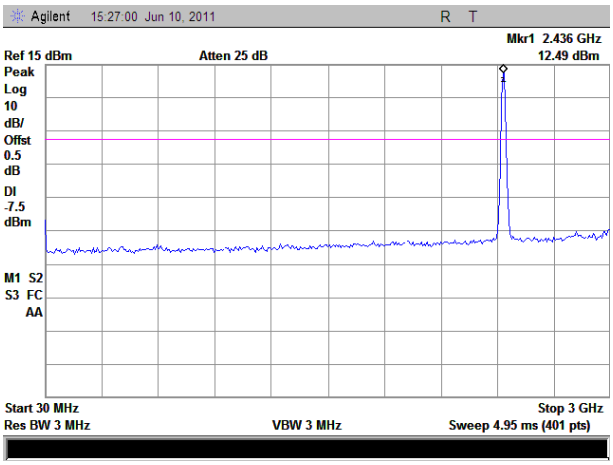
Note: the power of the Module transmitting frequency should be ignored.



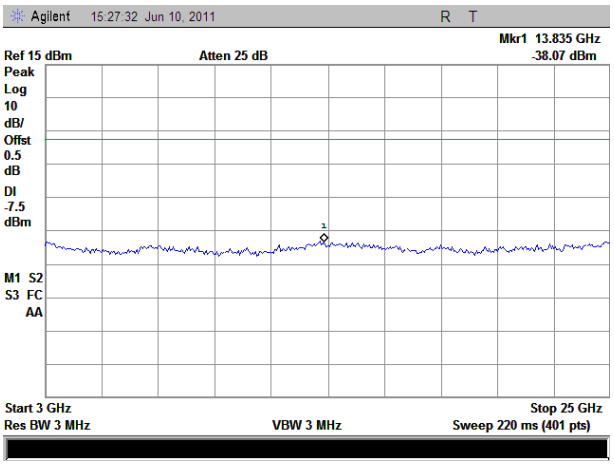
(Plot A.1: Channel = 1, 30MHz to 3GHz)



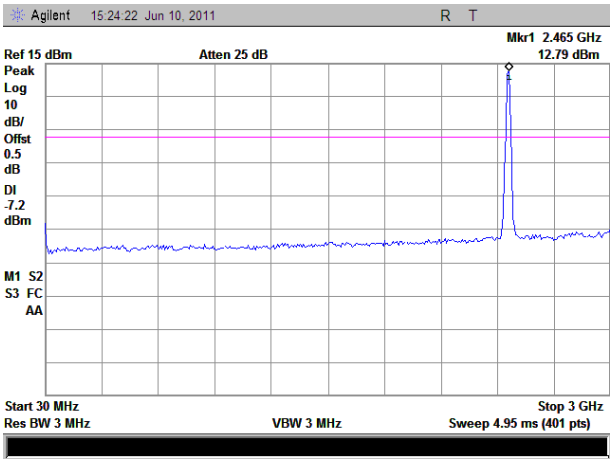
(Plot A.2: Channel = 1, 3GHz to 25GHz)



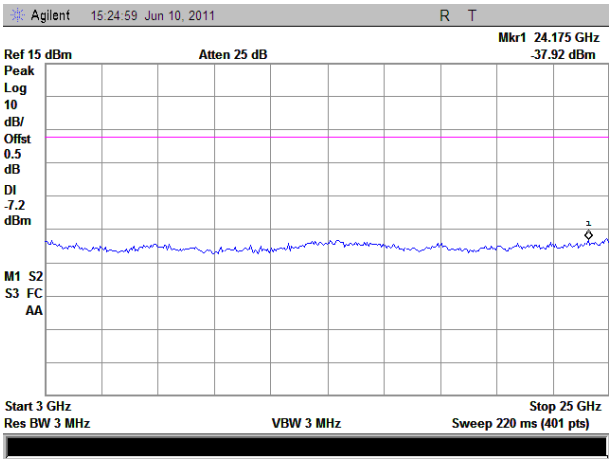
(Plot B.1: Channel = 6, 30MHz to 3GHz)



(Plot B.2: Channel = 6, 3GHz to 25GHz)



(Plot C.1: Channel = 11, 30MHz to 3GHz)



(Plot C.2: Channel = 11, 3GHz to 25GHz)

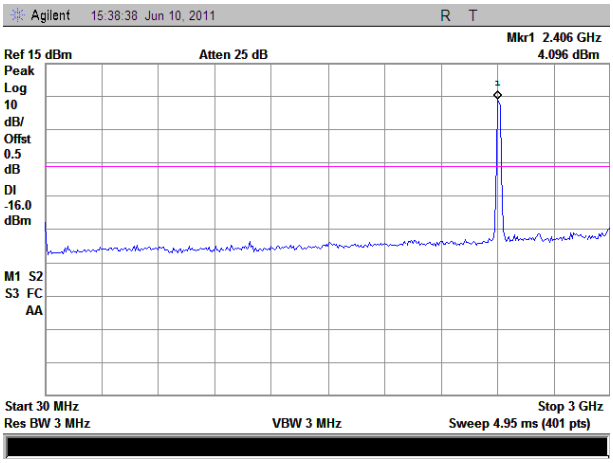
3.3.3.2 802.11g Test mode

A. Test Verdict:

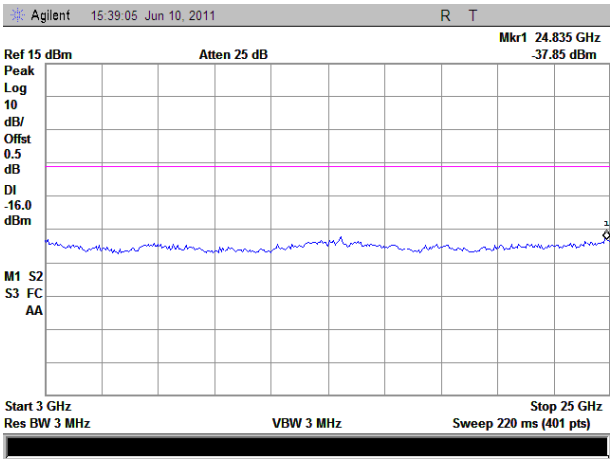
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Refer to Plot	Limit (dBm)		Verdict
				Carrier Level	Calculated -20dBc Limit	
1	2412	-37.85	Plot A.1/A.2	4.096	-16.0	PASS
6	2437	-37.92	Plot B.1/B.2	6.523	-13.5	PASS
11	2462	-41.28	Plot C.1/C.2	7.367	-12.6	PASS

B. Test Plot:

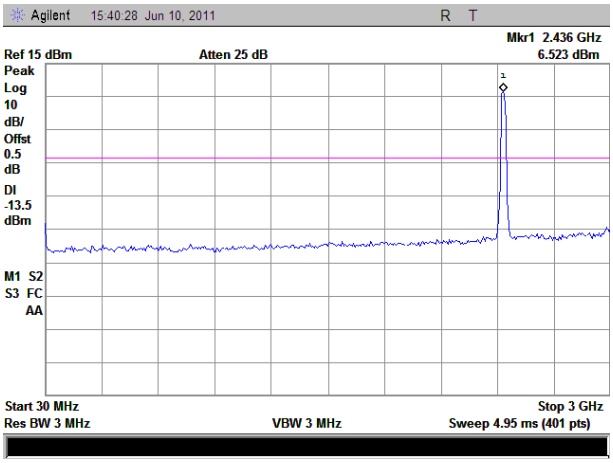
Note: the power of the Module transmitting frequency should be ignored.



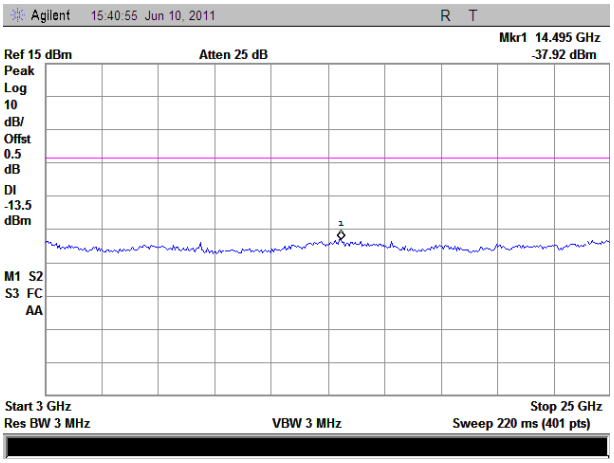
(Plot A.1: Channel = 1, 30MHz to 3GHz)



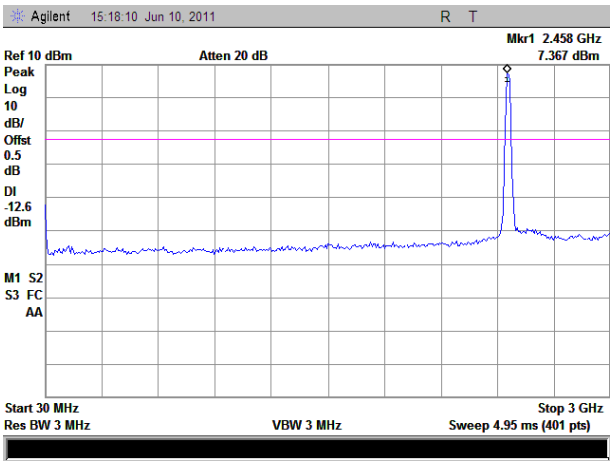
(Plot A.2: Channel = 1, 3GHz to 25GHz)



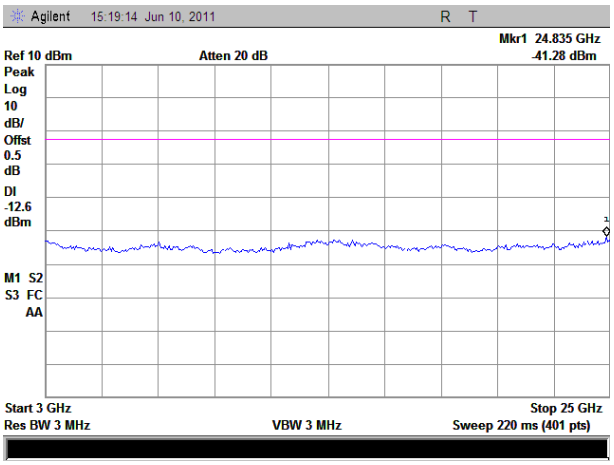
(Plot B.1: Channel = 6, 30MHz to 3GHz)



(Plot B.2: Channel = 6, 3GHz to 25GHz)



(Plot C.1: Channel = 11, 30MHz to 3GHz)



(Plot C.2: Channel = 11, 3GHz to 25GHz)

2.4 Power spectral density (PSD)

2.4.1 Requirement

According to FCC section 15.247(d) and RSS-210 A8.1 (4), 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.

2.4.2 Test Description

See section 2.2.2 of this report.

2.4.3 Test Result

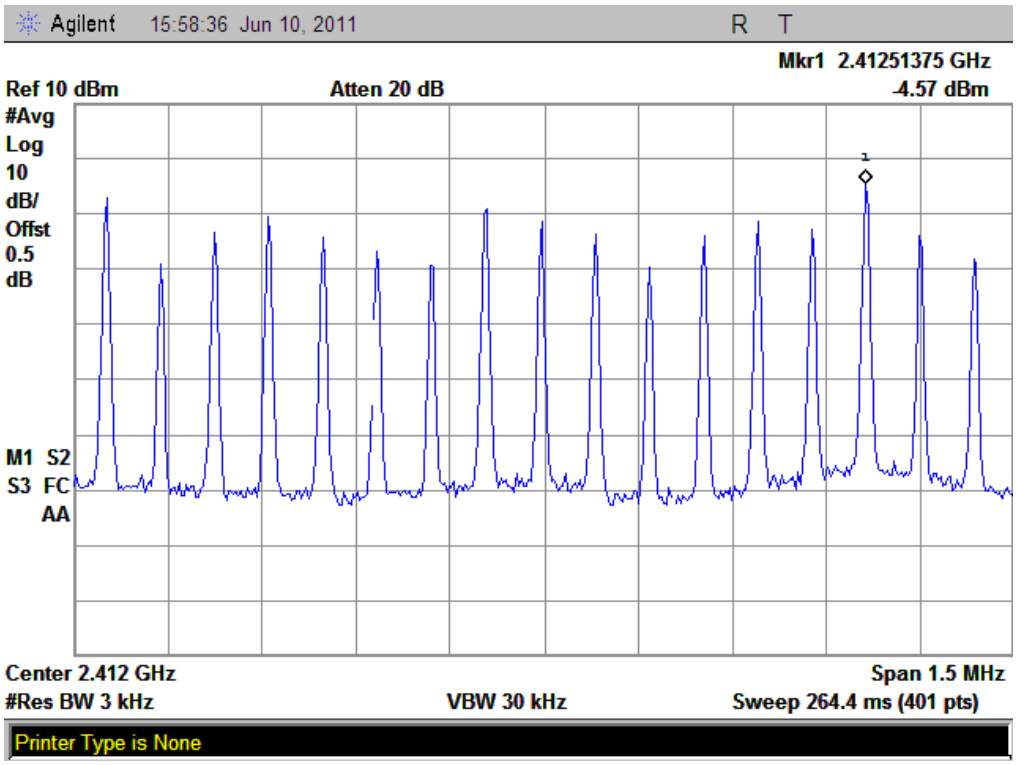
The lowest, middle and highest channels are tested to verify the band edge emissions.

3.4.3.1 802.11b Test mode

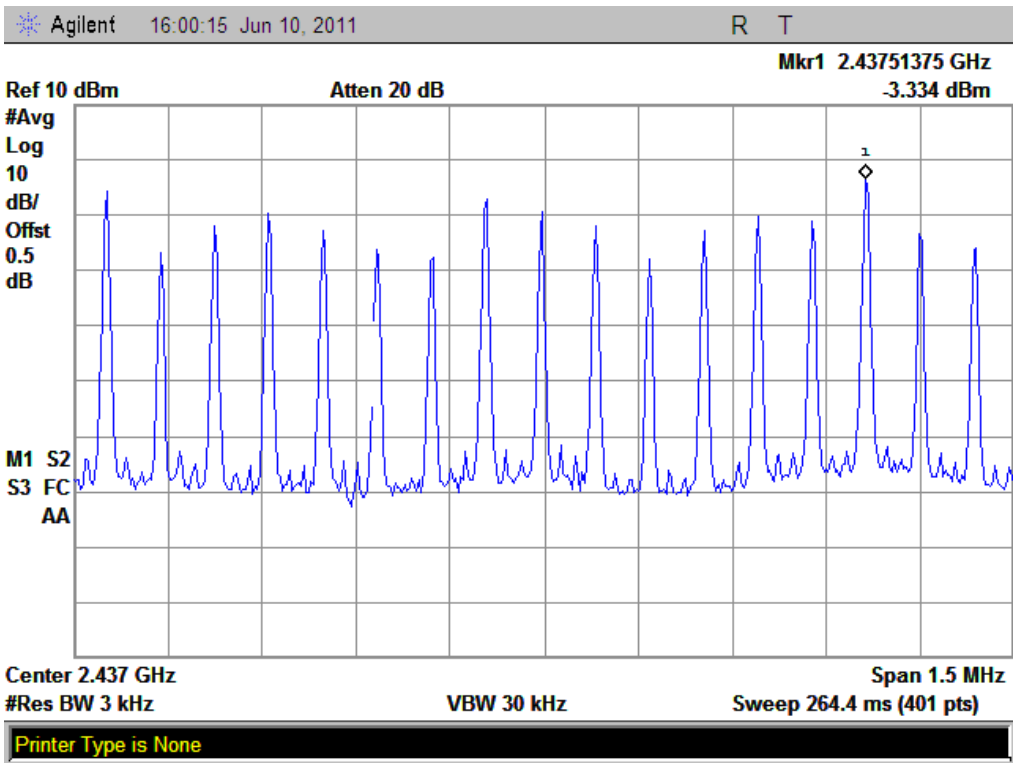
A. Test Verdict:

Spectral power density (dBm/MHz)					
Channel: 1 Frequency, 2412MHz		**Channel: 6 Frequency, 2437MHz**		**Channel: 11 Frequency, 2462MHz**	
Test Result	Test plot	Test Result	Test plot	Test Result	Test plot
-4.57	Plot A	-3.334	Plot B	-34.39	Plot C
Measurement uncertainty: ±1.3dB					

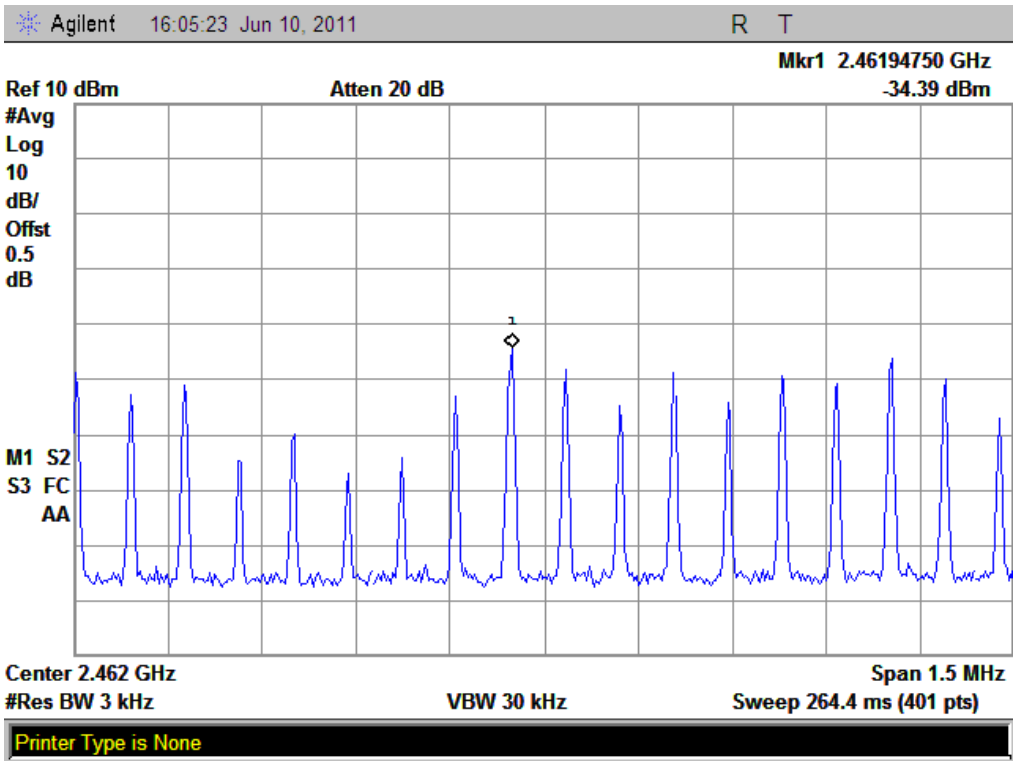
Test Plot:



(Plot A: Channel = 1)



(Plot B: Channel = 6)



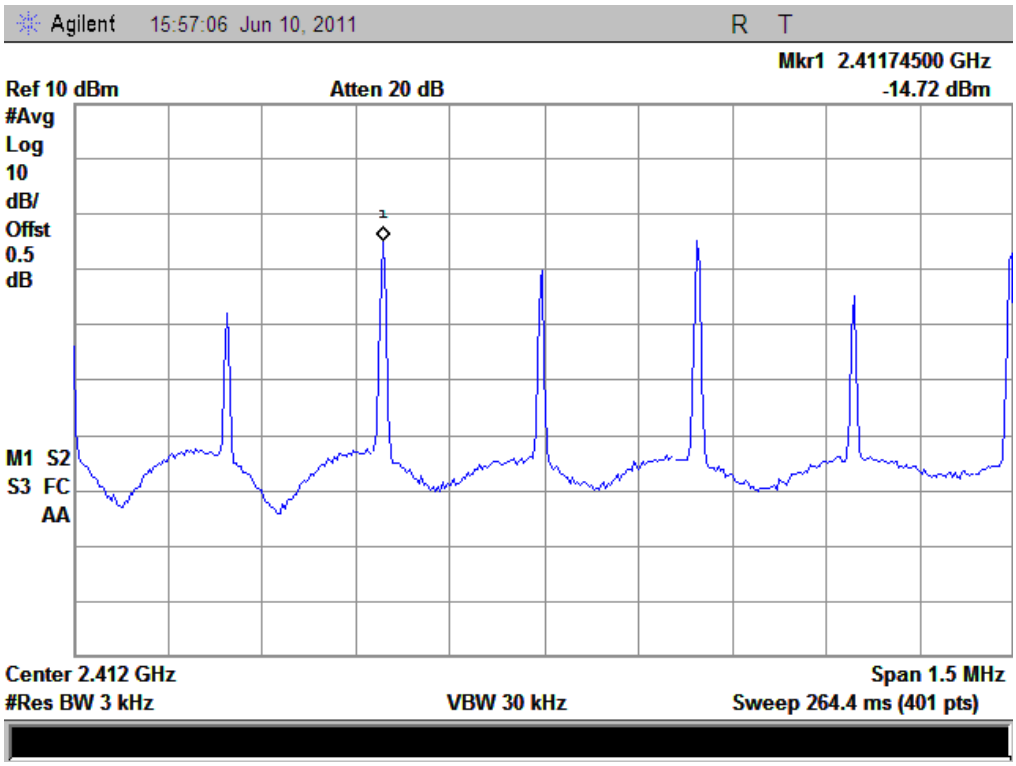
(Plot C: Channel = 11)

3.4.3.2 802.11g Test mode

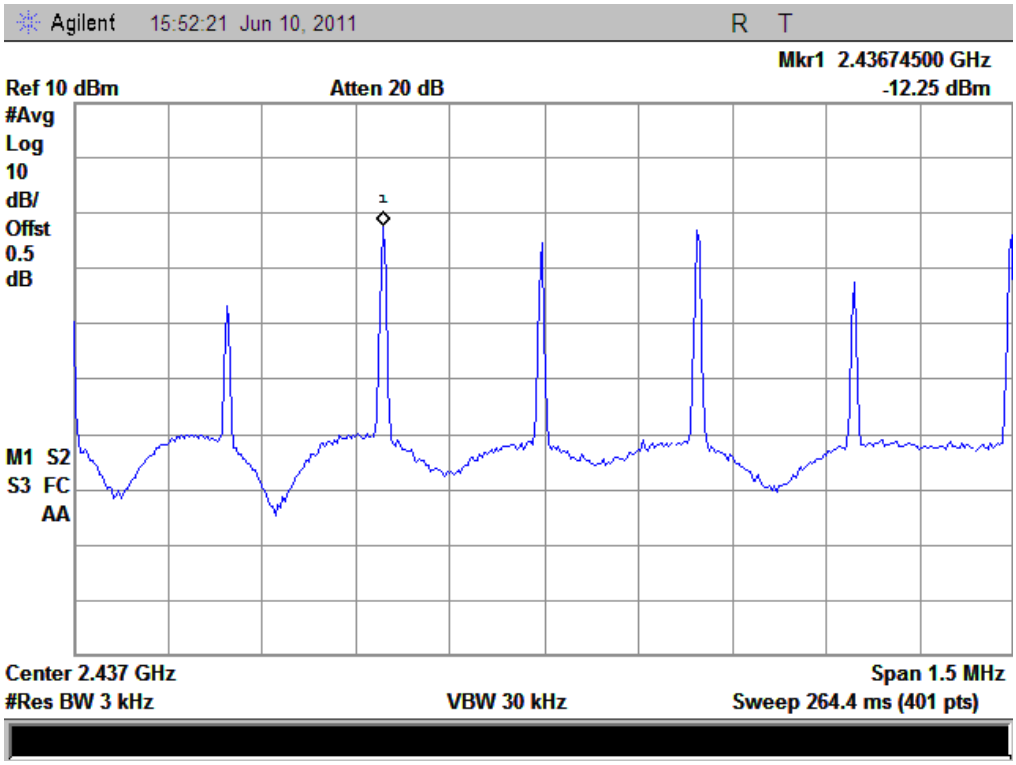
B. Test Verdict:

Spectral power density (dBm)					
Channel: 1 Frequency, 2412MHz		**Channel: 6 Frequency, 2437MHz**		**Channel: 11 Frequency, 2462MHz**	
Test Result	Test plot	Test Result	Test plot	Test Result	Test plot
-14.72	Plot D	-12.25	Plot E	-32.89	Plot F
Measurement uncertainty: ±1.3dB					

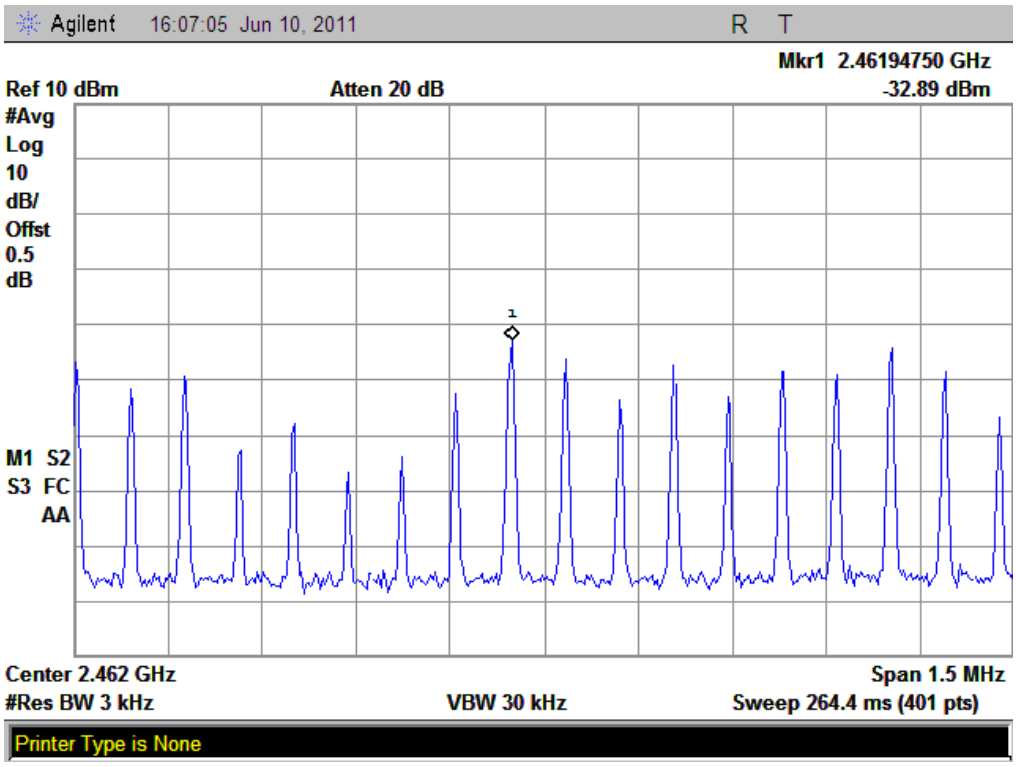
Test Plot:



(Plot D: Channel = 1)



(Plot E: Channel = 6)



(Plot F: Channel = 11)

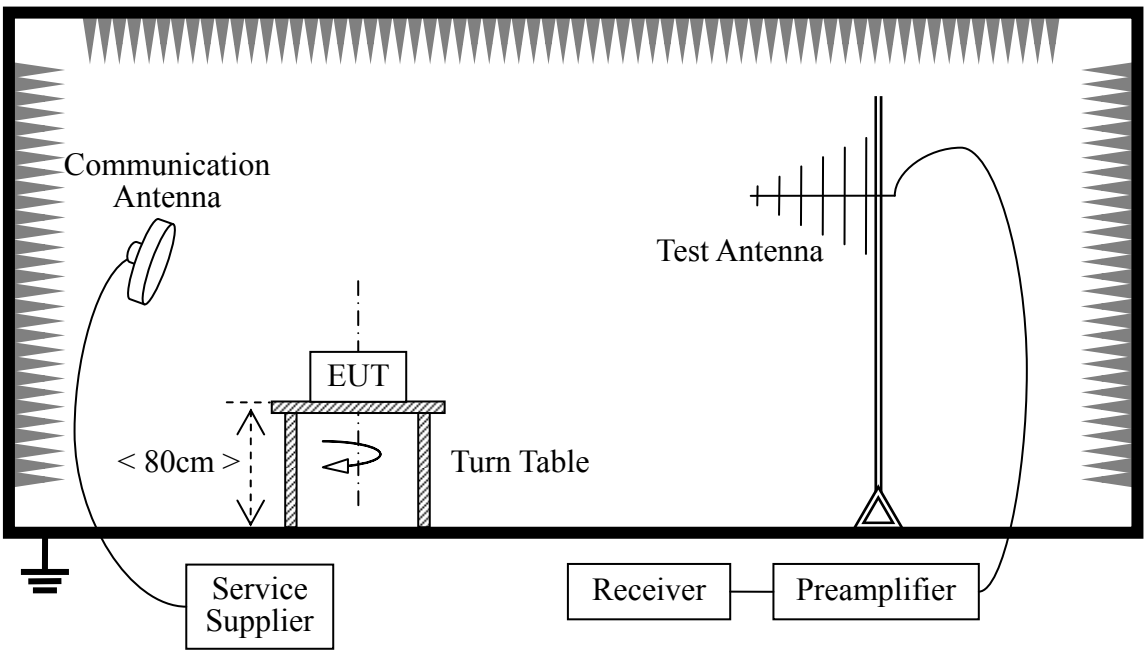
2.5 Band Edge

2.5.1 Requirement

According to FCC section 15.247(c) and RSS-210 A8.5, 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.

2.5.2 Test Description

A. Test Setup



The Module of the EUT is powered by the Battery charged with the AC Adapter. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:

Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength..

C. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2011.05	1year

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2011.05	1year
Test Antenna	Schwarzbeck	BBHA 9120C	9120C-384	2011.05	1year

2.5.3 Test Result

The EUT operates at hopping-off test mode. The lowest and highest channels are tested to verify the band edge emissions.

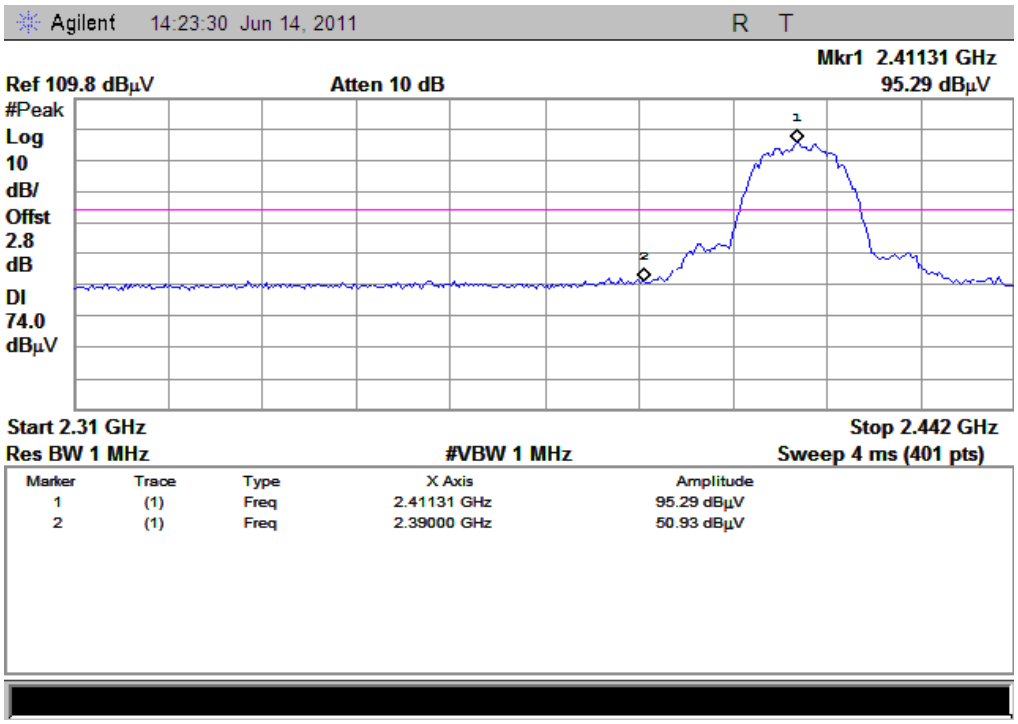
3.5.3.1 802.11b Test mode

The lowest and highest channels are tested to verify the band edge emissions.

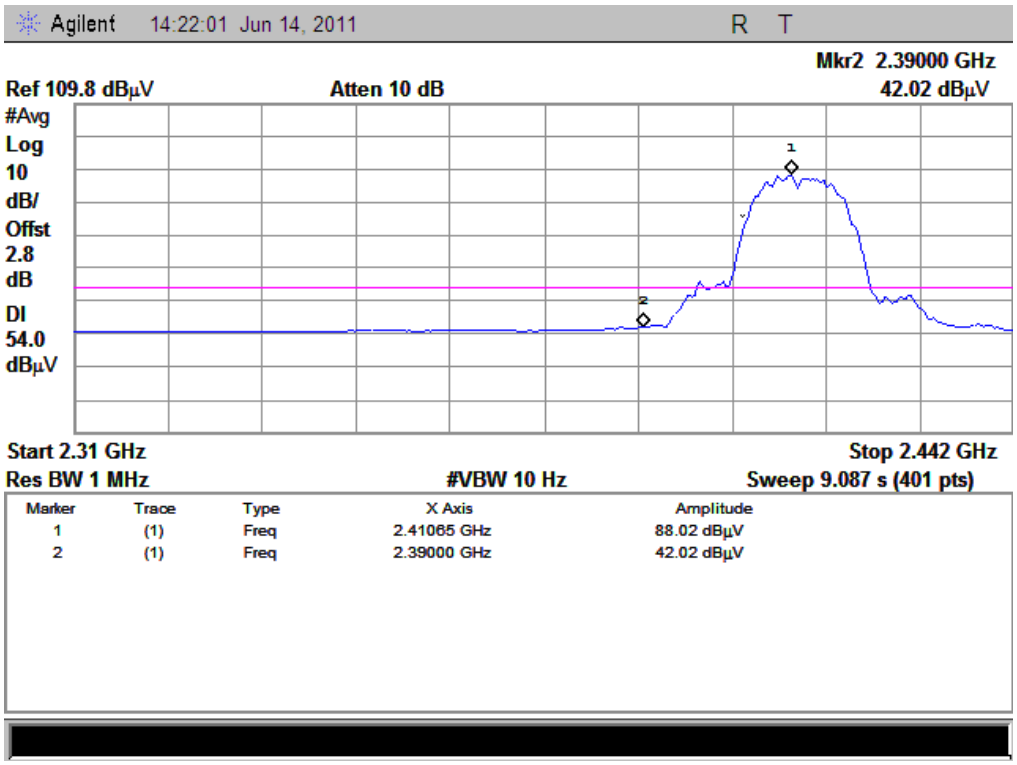
A. Test Verdict:

Channel	Frequency (MHz)	Max. Emission in the Restricted Bands (dBμV/m)		Limit (dBμV/m)		Verdict
		PK	AV	PK	AV	
1	2412	50.93	42.02	74	54	PASS
11	2462	51.21	41.71	74	54	PASS

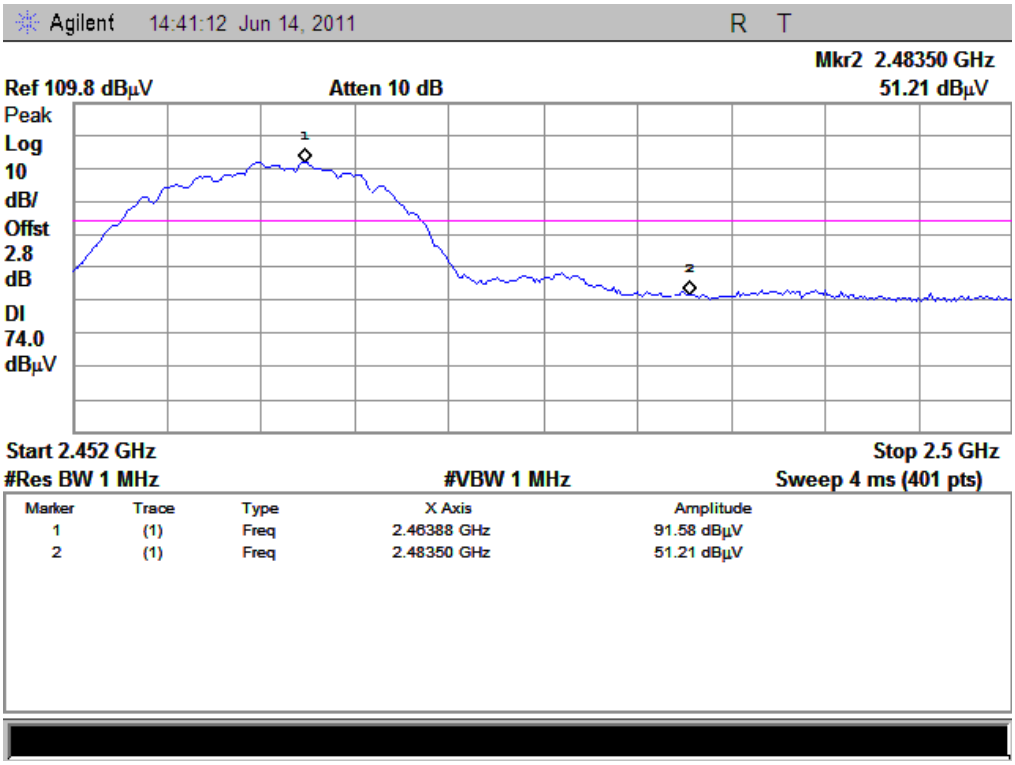
B. Test Plot:



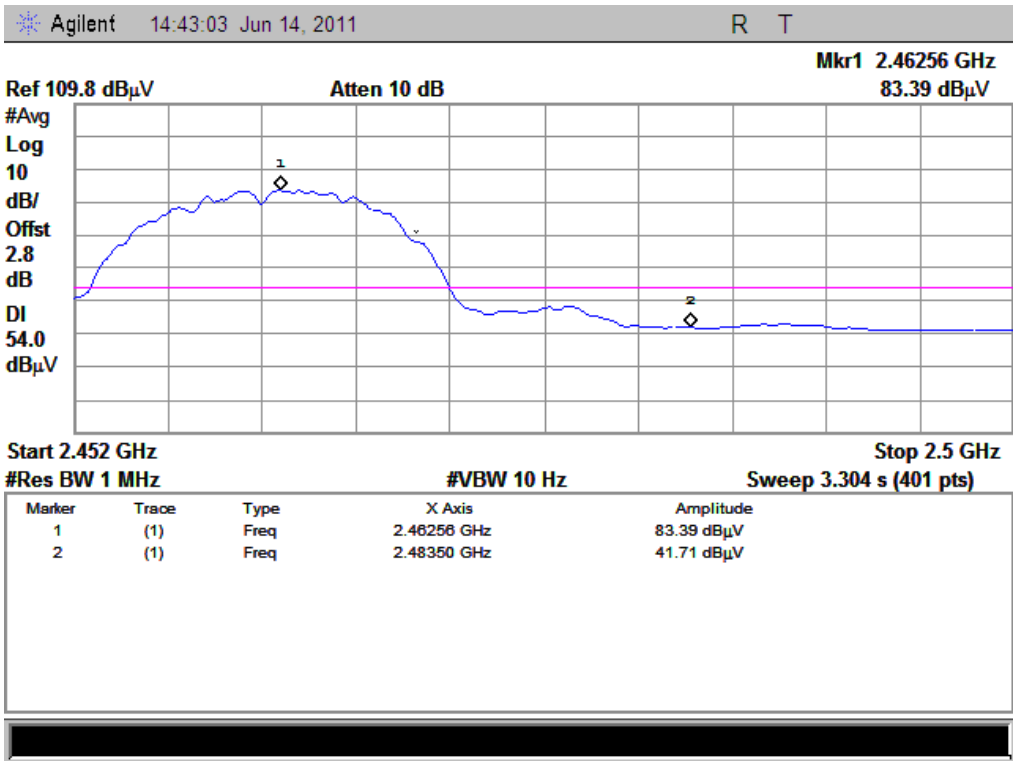
(Plot A1: Channel = 1 PEAK)



(Plot A2: Channel = 1 AVG)



(Plot B1: Channel = 11 PEAK)



(Plot B2: Channel = 11 AVG)

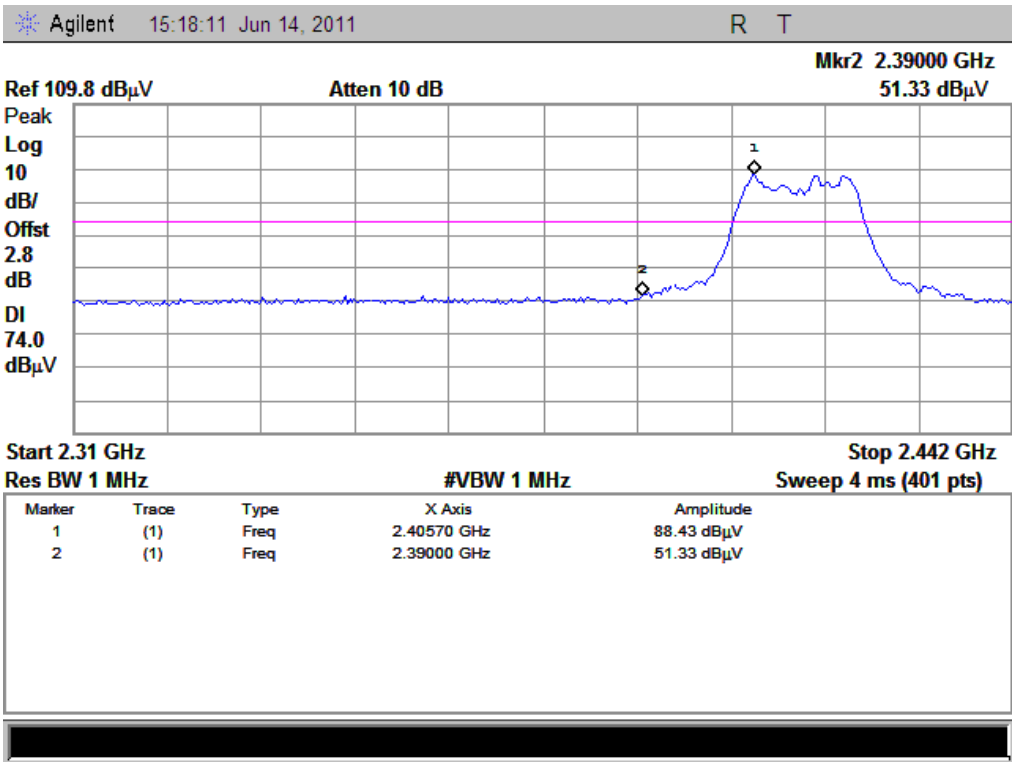
3.5.3.2 802.11g Test mode

The lowest and highest channels are tested to verify the band edge emissions.

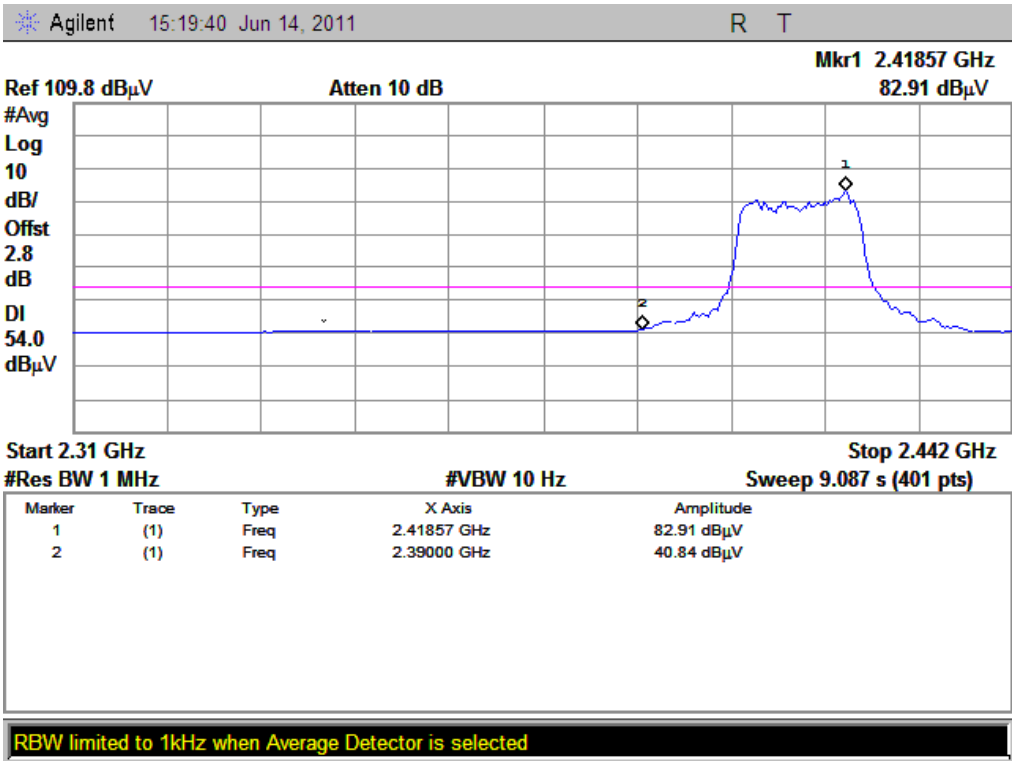
A. Test Verdict:.

Channel	Frequency (MHz)	Max. Emission in the Restricted Bands (dBµV/m)		Limit (dBµV/m)		Verdict
		PK	AV	PK	AV	
1	2412	51.33	40.84	74	54	PASS
11	2462	50.51	41.46	74	54	PASS

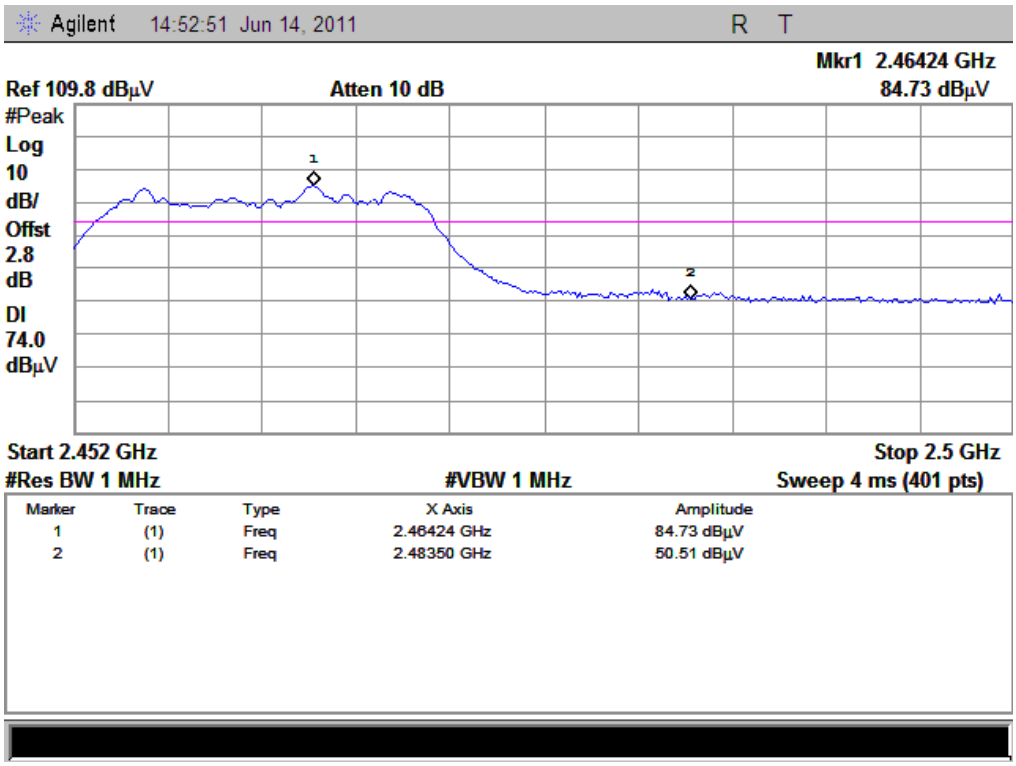
B. Test Plot:



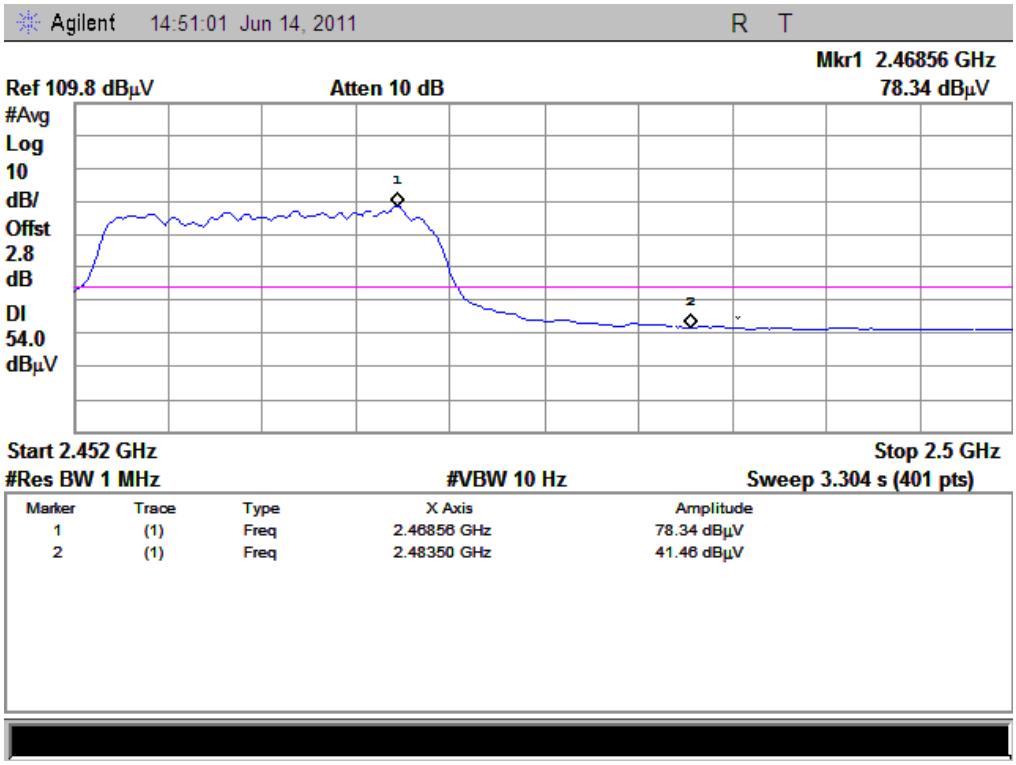
(Plot A1: Channel = 1 PEAK)



(Plot A2: Channel = 1 AVG)



(Plot B1: Channel = 11 PEAK)



(Plot B2: Channel = 11 AVG)

2.6 Conducted Emission

2.6.1 Requirement

According to FCC section 15.207 and RSS-210 7.7.2, 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 50μH/50Ω line impedance stabilization network (LISN).

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

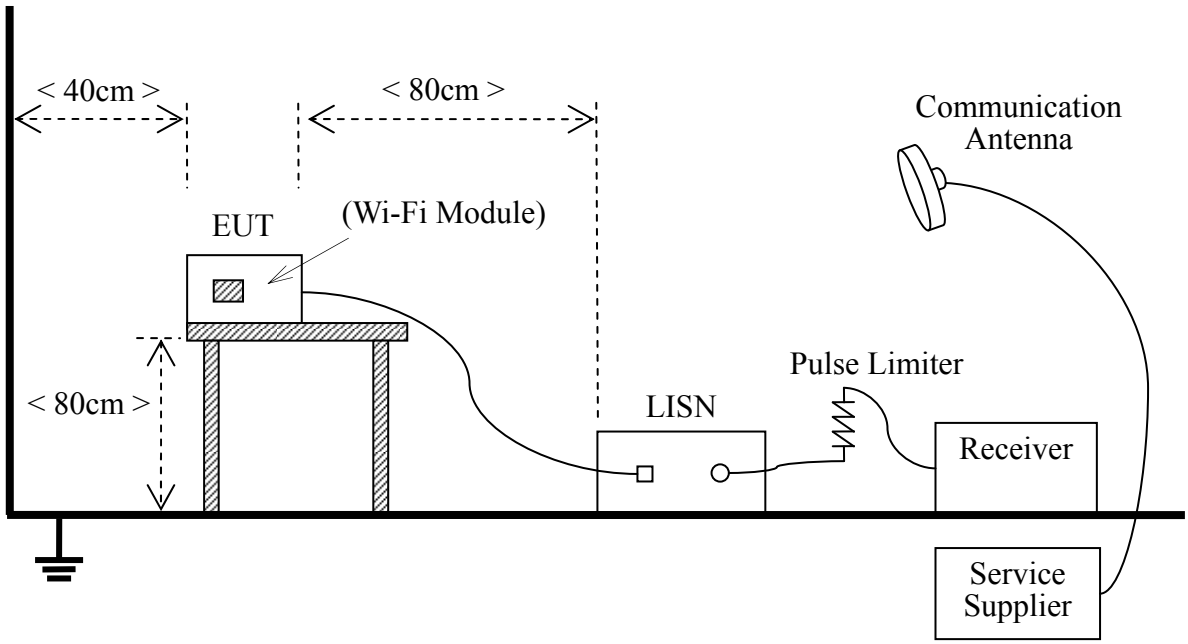
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.6.2 Test Description

A. Test Setup:



The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The factors of the site are calibrated to correct the reading. During the

measurement, the EUT is activated and controlled by the Wi-Fi Service Supplier (SS) via a Common Antenna, and is set to operate under hopping-on test mode transmitting 339 bytes DH5 packages at maximum power.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Receiver	Agilent	E7405A	US44210471	2011.05	1year
LISN	Schwarzbeck	NSLK 8127	812744	2011.05	1year
Service Supplier	R&S	CMU200	100448	2011.05	1year
Pulse Limiter (20dB)	Schwarzbeck	VTSD 9561-D	9391	(n.a.)	(n.a.)

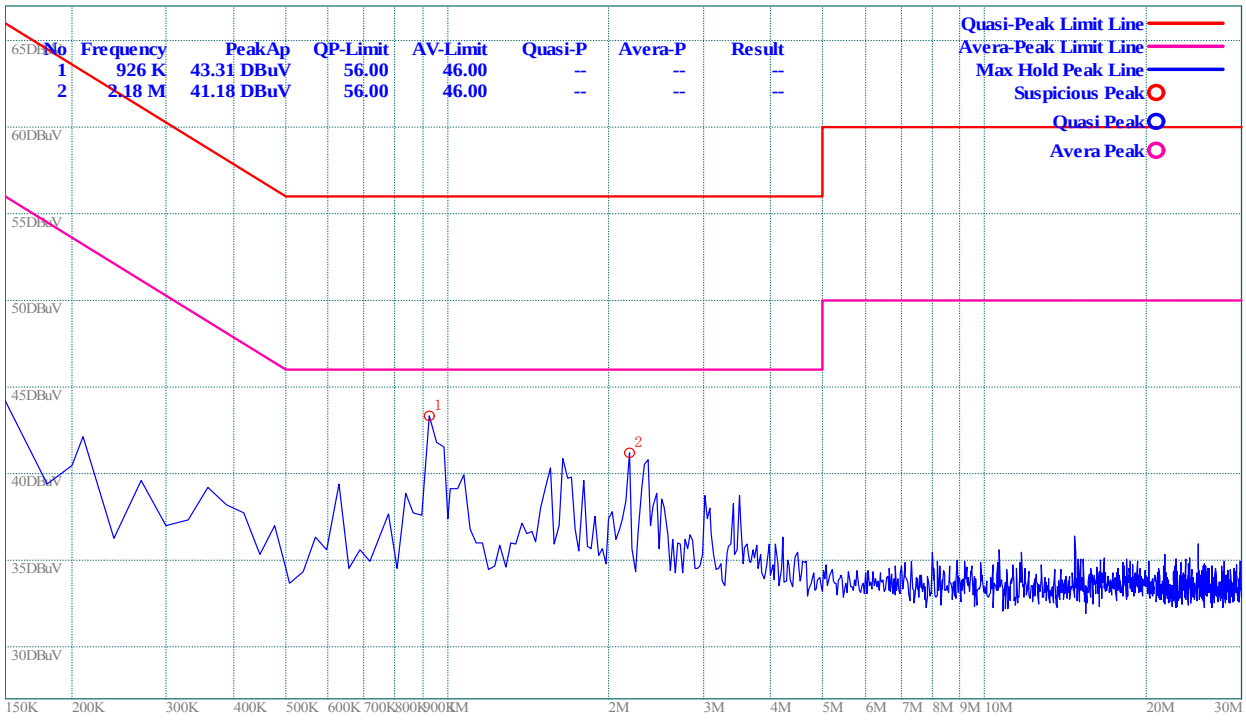
2.6.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; 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.

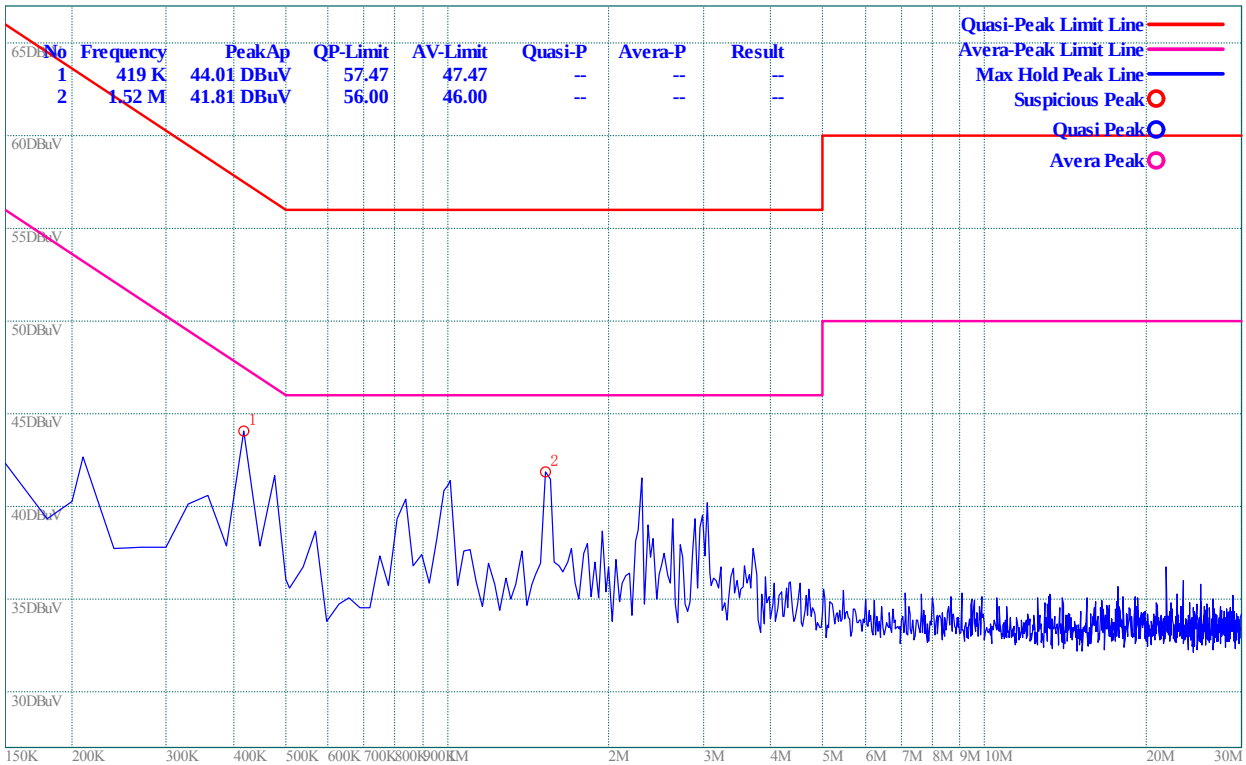
2.6.3.1 Test mode (WI-FI)

A. Test setup: The EUT configuration of the emission tests is EUT + Charger.

B. Test Plot:



(Plot A: L Phase)



(Plot B: N Phase)

2.7 Radiated Emission

2.7.1 Requirement

According to FCC section 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).

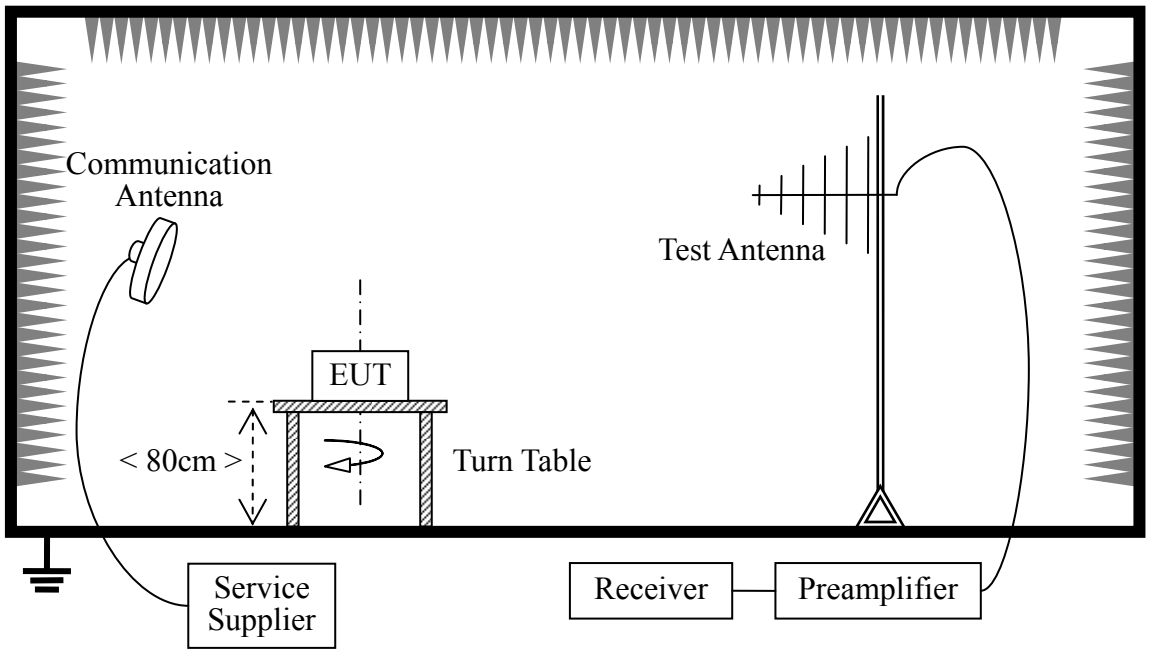
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

2.7.2 Test Description

A. Test Setup:



The EUT of the EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The Module is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading. During the measurement, the EUT is activated and controlled by the Wireless Router via a Common Antenna, and is set to operate under hopping-on test mode.

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	R&S	CMU200	100448	2011.05	1year
Receiver	Agilent	E7405A	US44210471	2011.05	1year
Semi-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2011.05	1year
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2011.05	1year
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2011.05	1year

2.7.3 Test Result

3.7.3.1 802.11b Test mode

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.

A. Test Verdict for Harmonics:

The Fundamental Emissions

The field strength of {Fundamental Emission} listed below is recorded, and used in the next table.

Channel	Frequency (MHz)	Fundamental Emission (dBμV/m)		Antenna Polarization	Refer to Plot
		PK	AV		
1	2412	93.12	85.3	Horizontal	Plot A.2
		94.34	86.9	Vertical	Plot A.3
6	2437	94.13	86.5	Horizontal	Plot B.2
		93.88	85.6	Vertical	Plot B.3
11	2462	94.63	86.7	Horizontal	Plot C.2
		95.42	87.8	Vertical	Plot C.3

Test result of channel: 1 (2412MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
49.4M	32.53	40	-7.47	100	340	Vertical
8237.5M	44.49	54	-9.51	100	4	Vertical
14560.0 M	44.03	54	-9.97	100	113	Vertical
225.0 M	31.09	46	-14.91	100	113	Horizontel
13952.5 M	43.48	54	-10.52	100	103	Horizontel

Test result of channel: 6 (2437MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
48.4M	32.23	40	-7.77	100	28	Vertical
2995M	42.68	54	-11.32	100	107	Vertical
222.1M	31.65	46	-14.35	100	125	Horizontel
13997.5M	44.44	54	-9.56	100	20	Horizontel

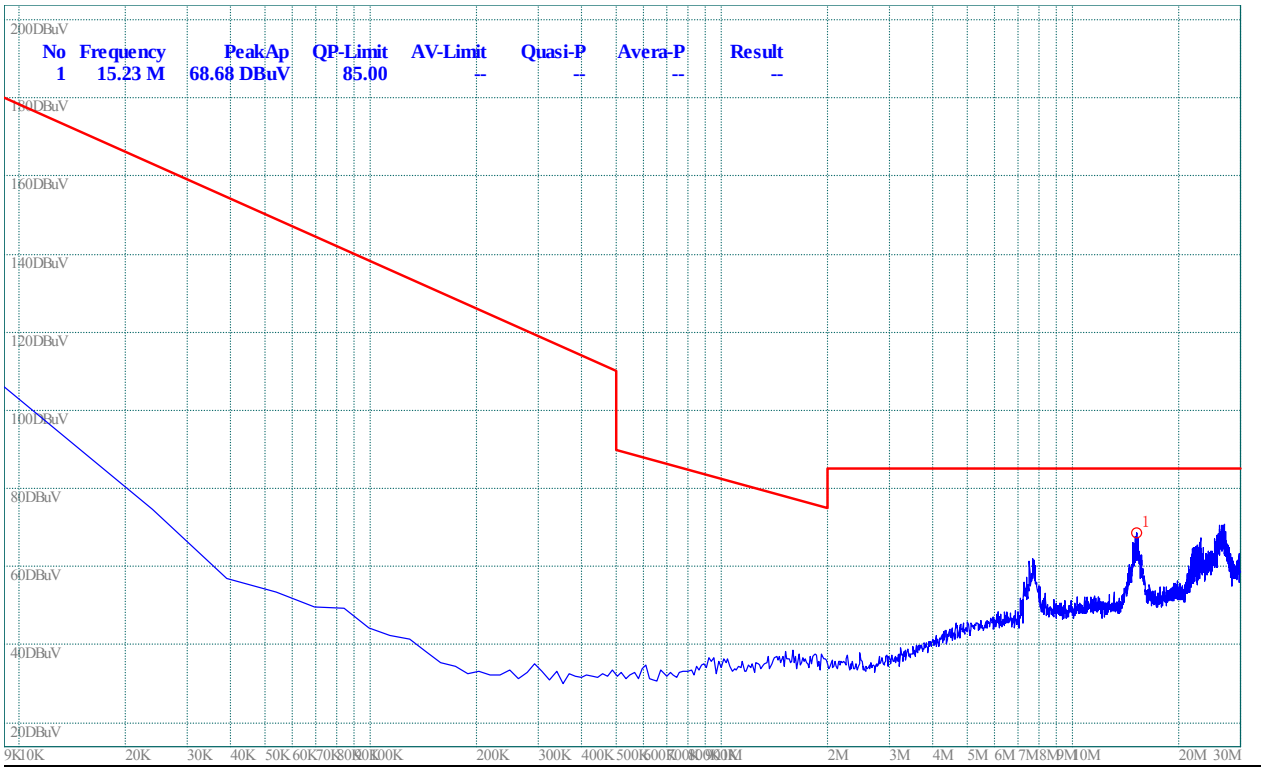
Test result of channel: 11 (2462MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
53.3 M	32.02	40	-7.98	100	114	Vertical
13840.0M	43.4	54	-10.6	100	20	Vertical
225M	30.76	46	-15.24	100	46	Horizontel
4930M	42.73	54	-11.27	100	92	Horizontel

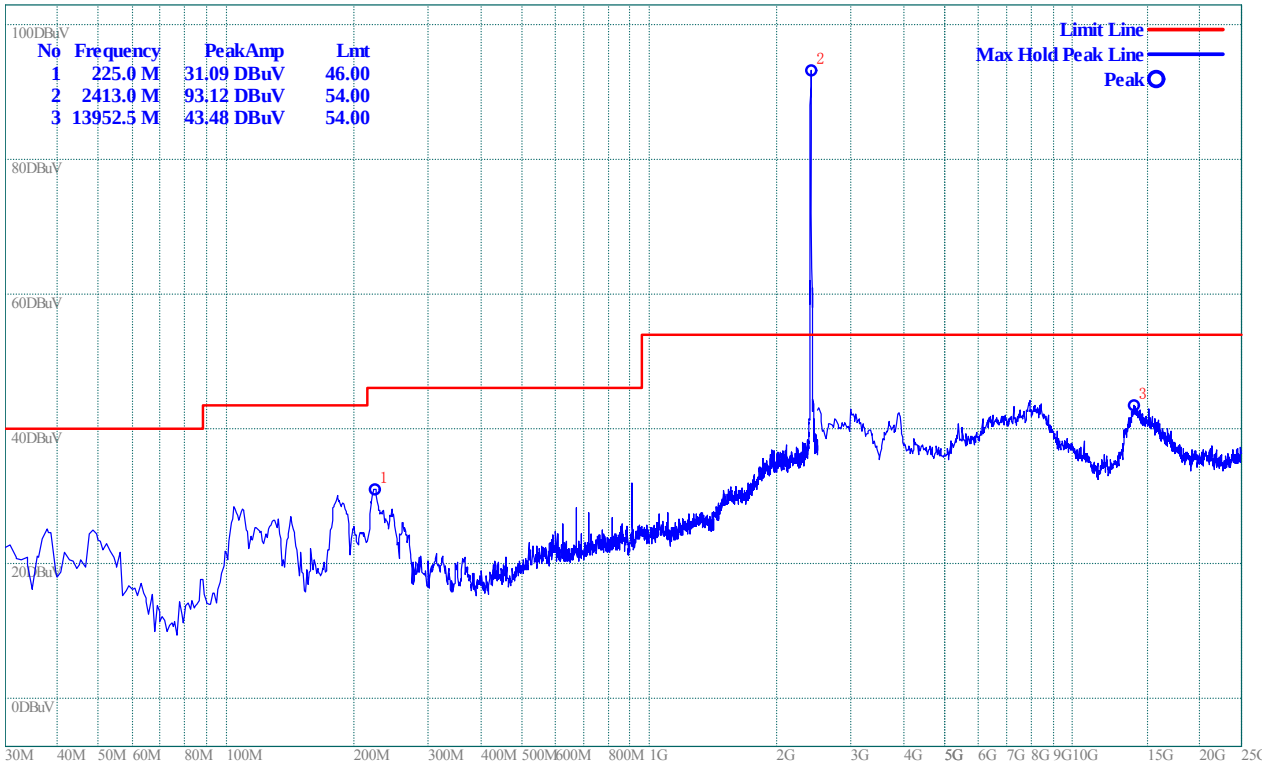
Also refer to following plots for the emissions falling in the restricted bands.

B. Test Plot for the Whole Measurement Frequency Range:

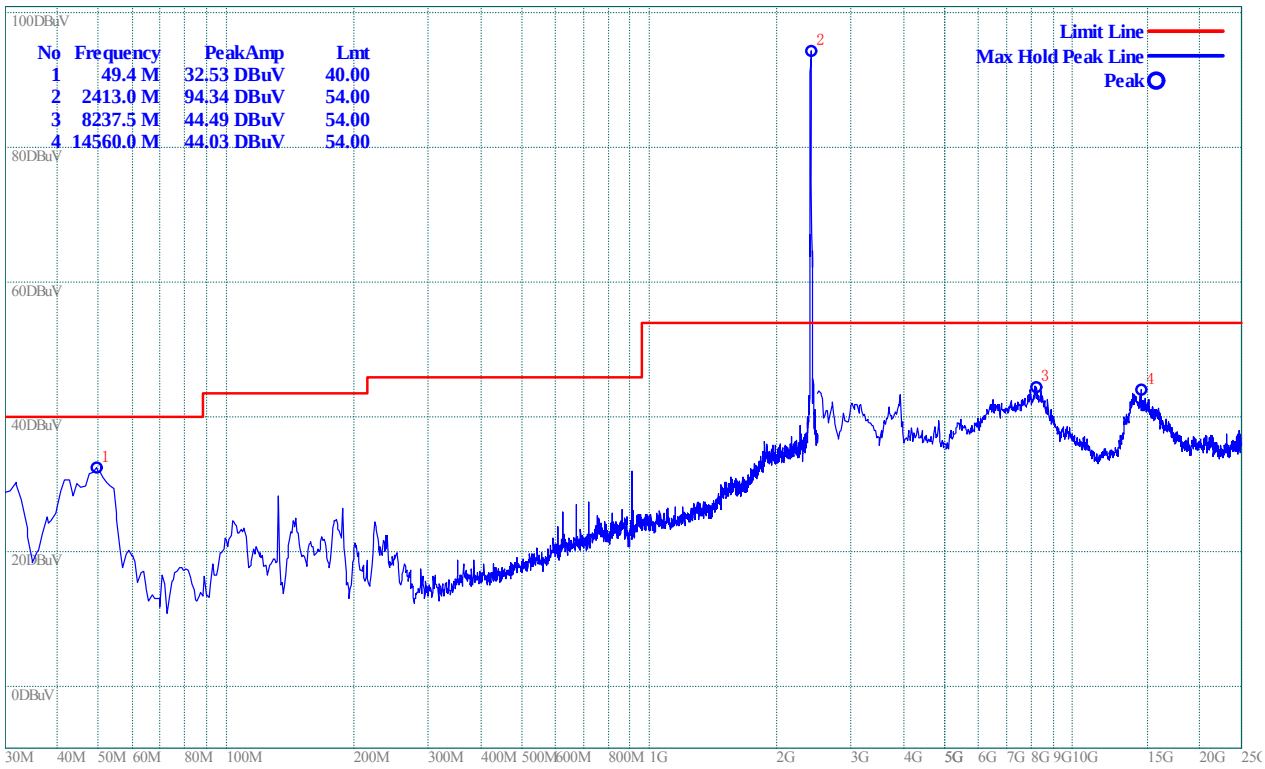
Plots for Channel = 1



(Plot A.1: 9kHz to 30MHz)

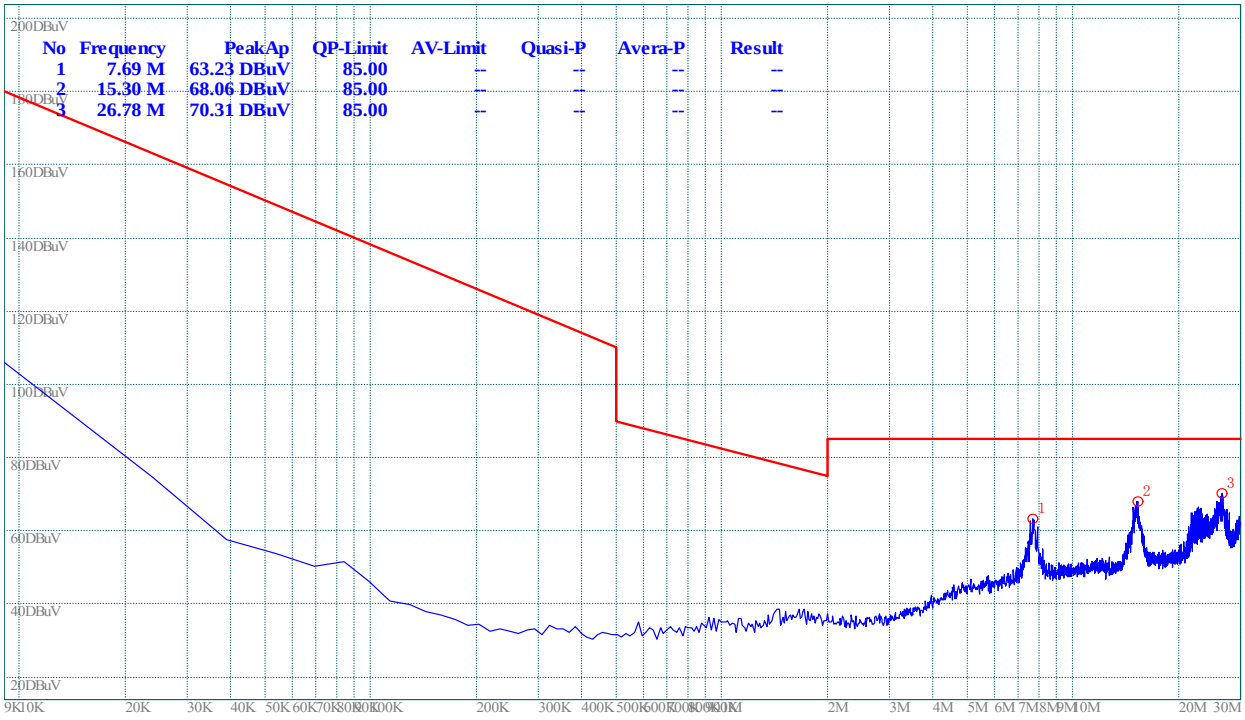


(Plot A.2: Antenna Horizontal, 30MHz to 25GHz)

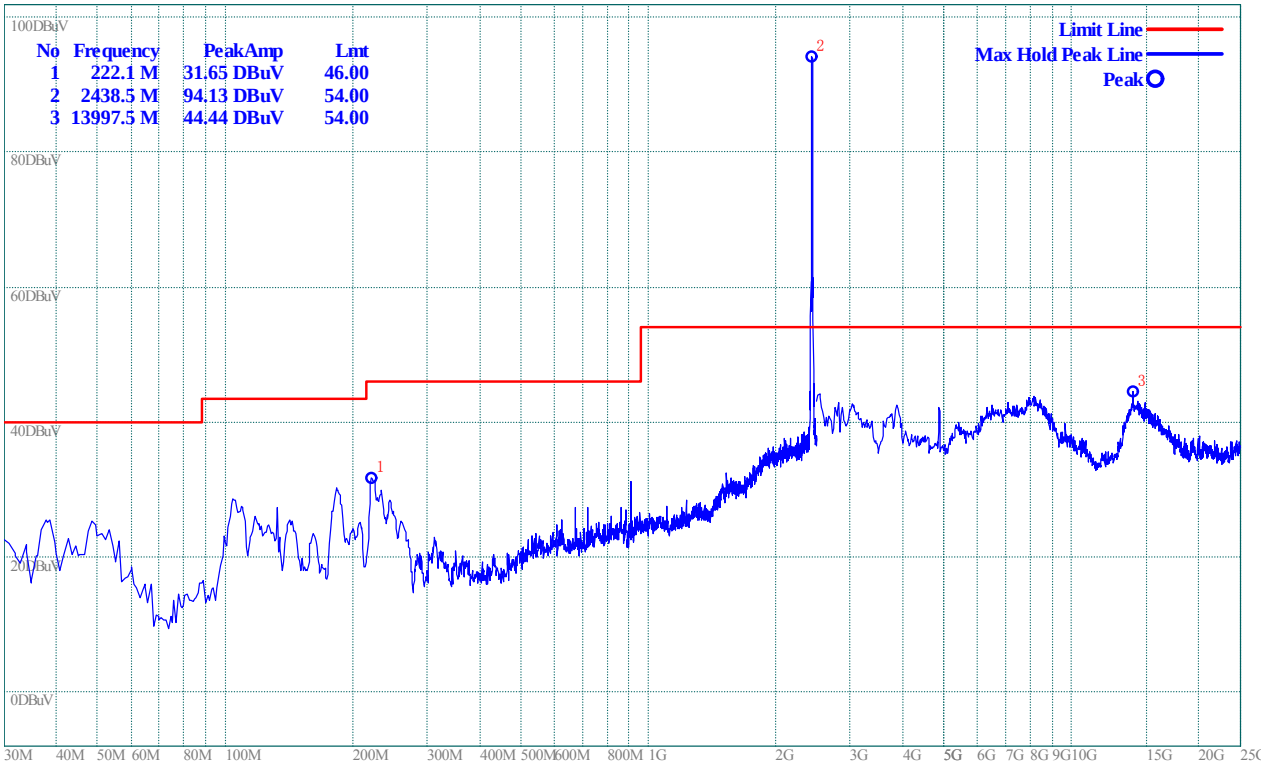


(Plot A.3: Antenna Vertical, 30MHz to 25GHz)

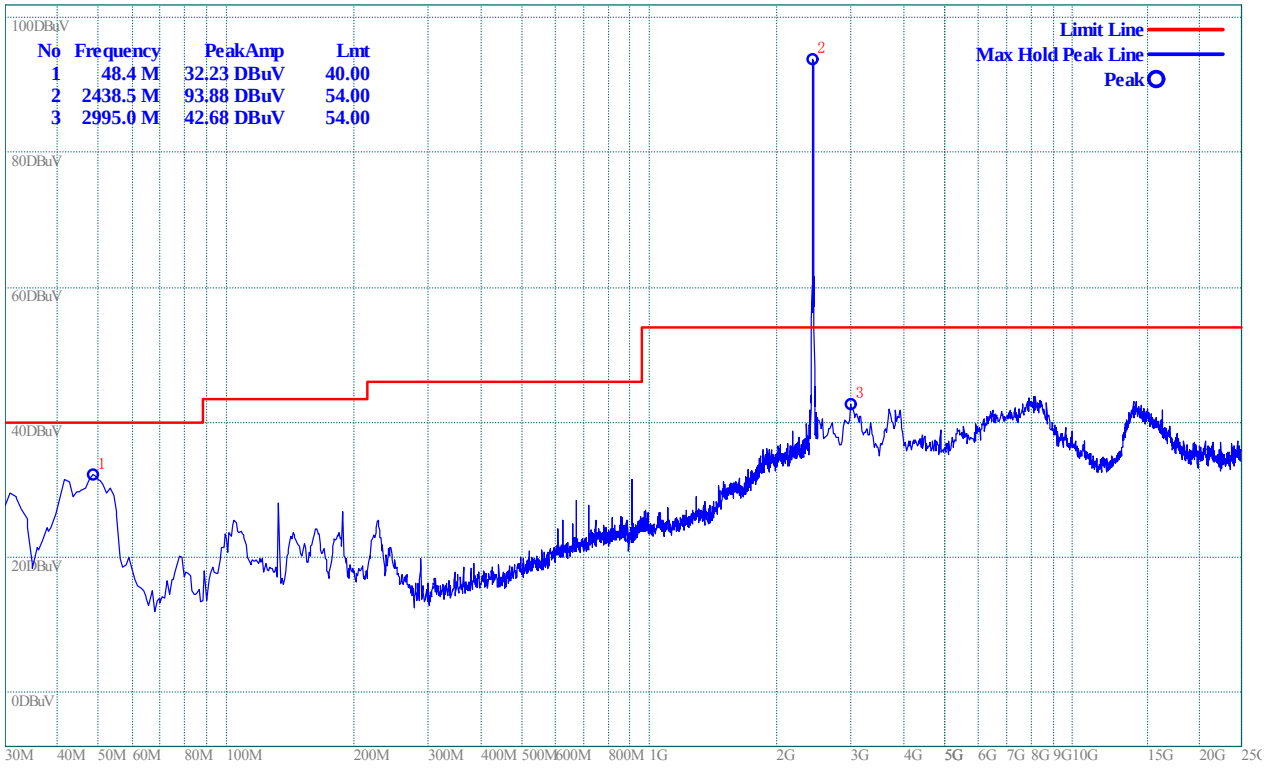
Plot for Channel = 6



(Plot B.1: 9kHz to 30MHz)

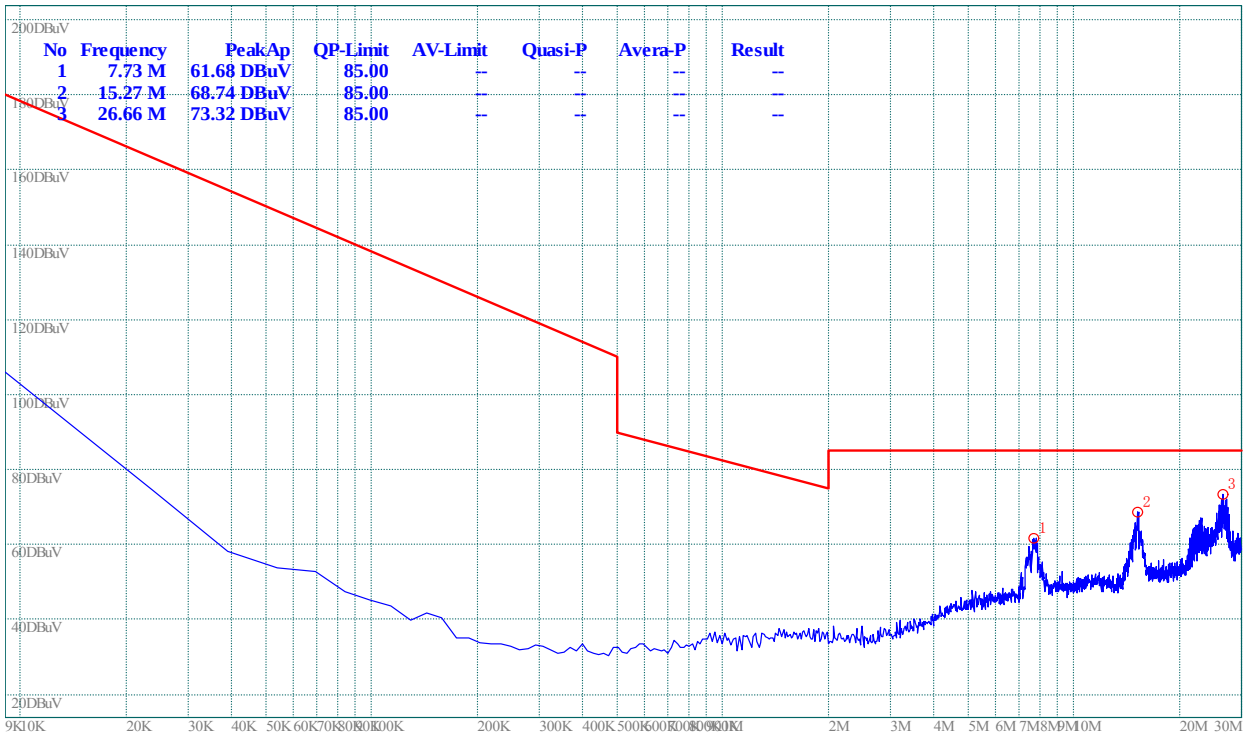


(Plot B.2: Antenna Horizontal, 30MHz to 25GHz)

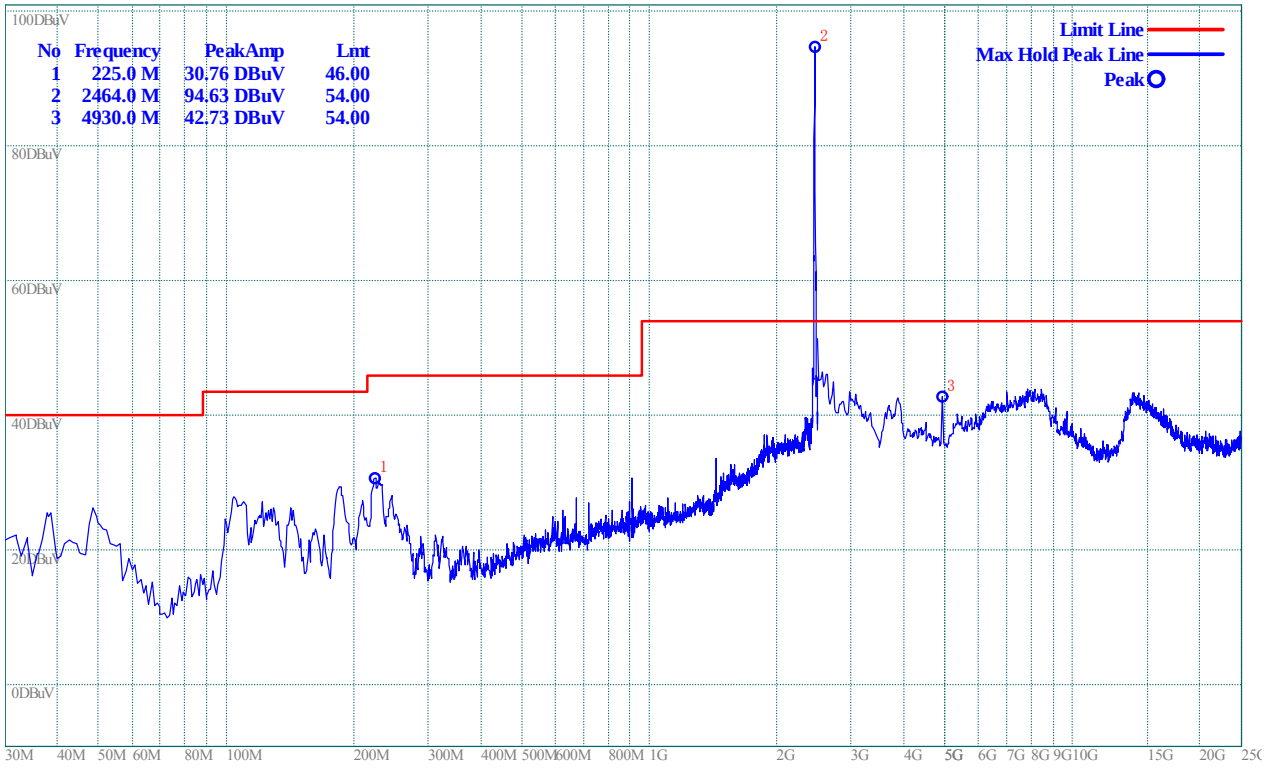


(Plot B.3: Antenna Vertical, 30MHz to 25GHz)

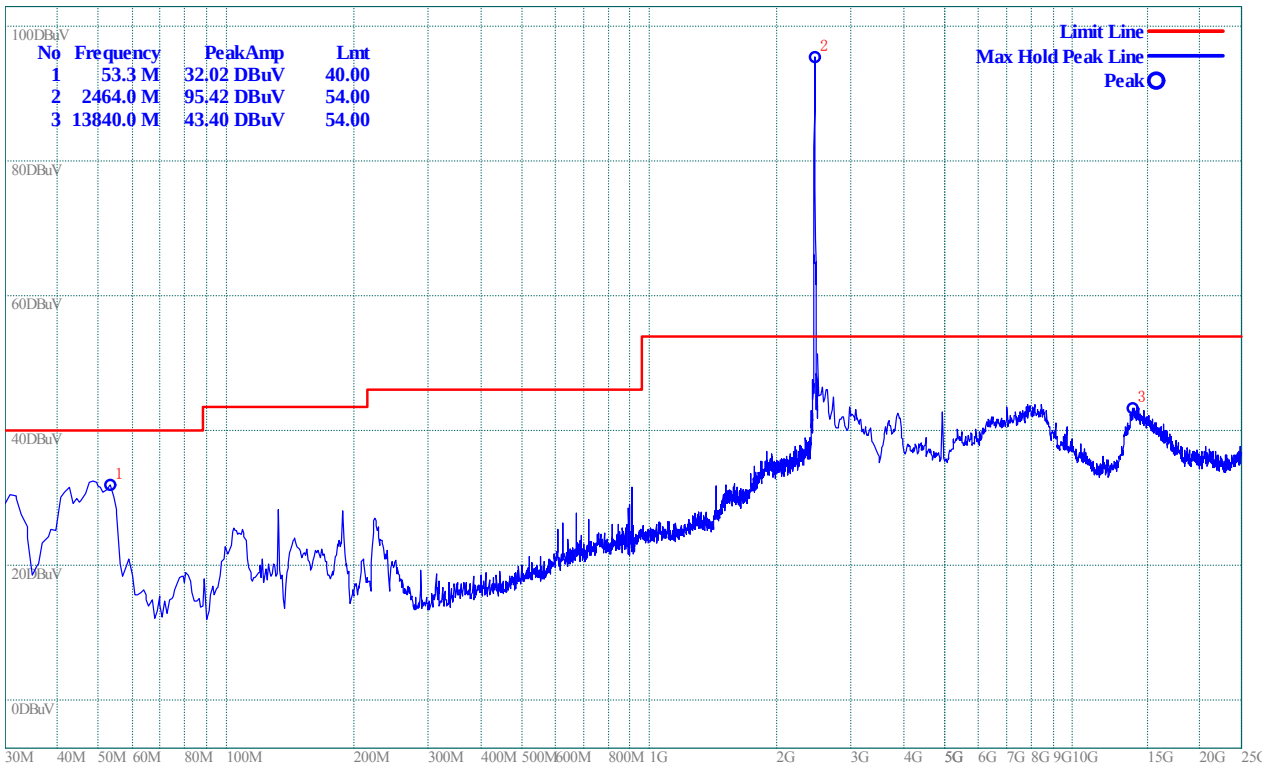
Plot for Channel = 11



(Plot C.1: 9kHz to 30MHz)



(Plot C.2: Antenna Horizontal, 30MHz to 25GHz)



(Plot C.5: Antenna Vertical, 30MHz to 25GHz)

Test Result: Pass

3.7.3.2 802.11g Test mode

The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors.

C. Test Verdict for Harmonics:

The Fundamental Emissions

The field strength of {Fundamental Emission} listed below is recorded, and used in the next table.

Channel	Frequency (MHz)	Fundamental Emission (dBμV/m)		Antenna Polarization	Refer to Plot
		PK	AV		
1	2412	87.00	80.1	Horizontal	Plot A.2
		88.23	81.2	Vertical	Plot A.3
6	2437	88.15	81.0	Horizontal	Plot B.2
		89.44	83.6	Vertical	Plot B.3
11	2462	87.15	80.1	Horizontal	Plot C.2
		88.65	81.4	Vertical	Plot C.3

Test result of channel: 1 (2412MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
41.6M	31.97	40	-8.03	100	340	Vertical
8215.0M	45.11	54	-8.98	100	4	Vertical
220.1 M	31.45	46	-14.55	100	113	Horizontel
8215.0 M	45.11	54	-8.98	100	103	Horizontel

Test result of channel: 6 (2437MHz)

Frequency (MHz)	PK Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
48.4M	32.29	40	-7.77	100	28	Vertical
8215.0M	45.11	54	-8.89	100	107	Vertical
217.2M	31.13	46	-14.87	100	125	Horizontel
8215.0M	45.11	54	-8.89	100	20	Horizontel

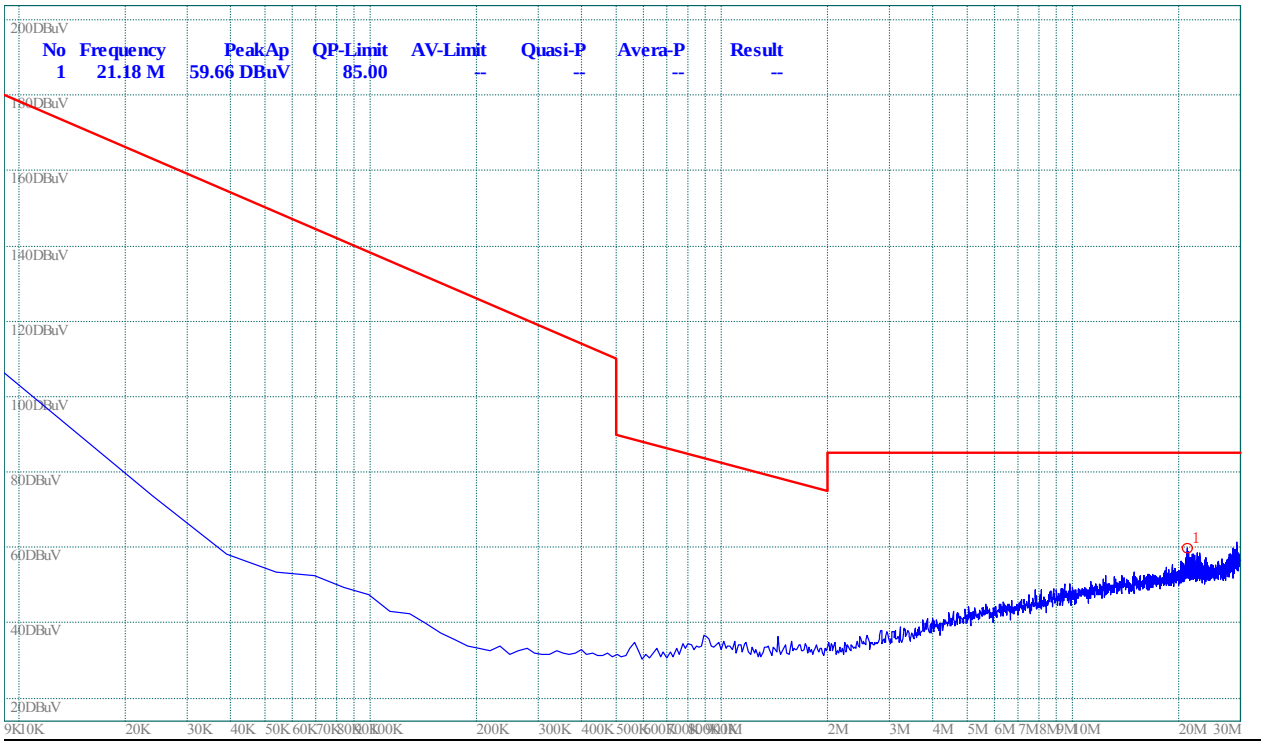
Test result of channel: 11 (2462MHz)

Frequency (MHz)	PK Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Height (cm)	Azimuth (deg)	Antenna Polarization
41.6M	32.16	40	-7.98	100	114	Vertical
141325.0M	43.92	54	-10.6	100	20	Vertical
218.2M	30.63	46	-15.24	100	46	Horizontel
14132.5M	43.92	54	-11.27	100	92	Horizontel

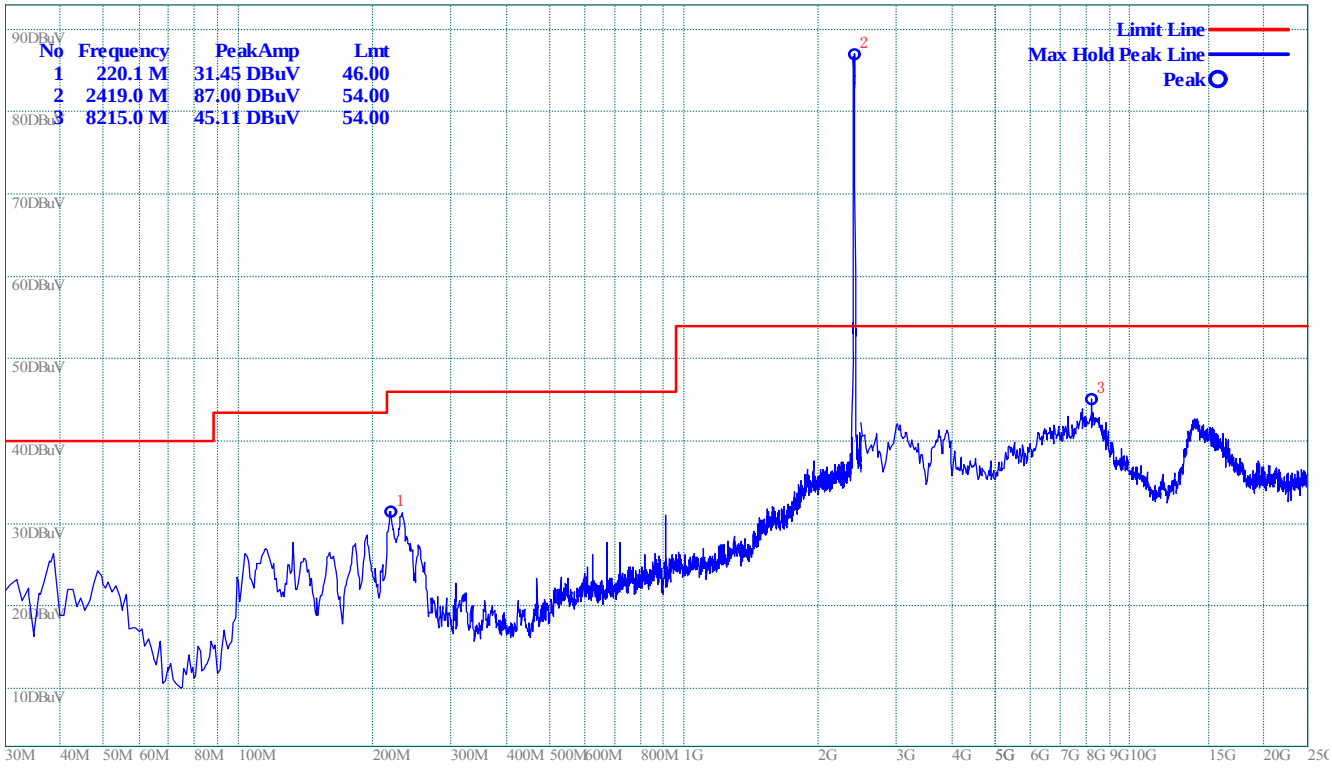
Also refer to following plots for the emissions falling in the restricted bands.

D. Test Plot for the Whole Measurement Frequency Range:

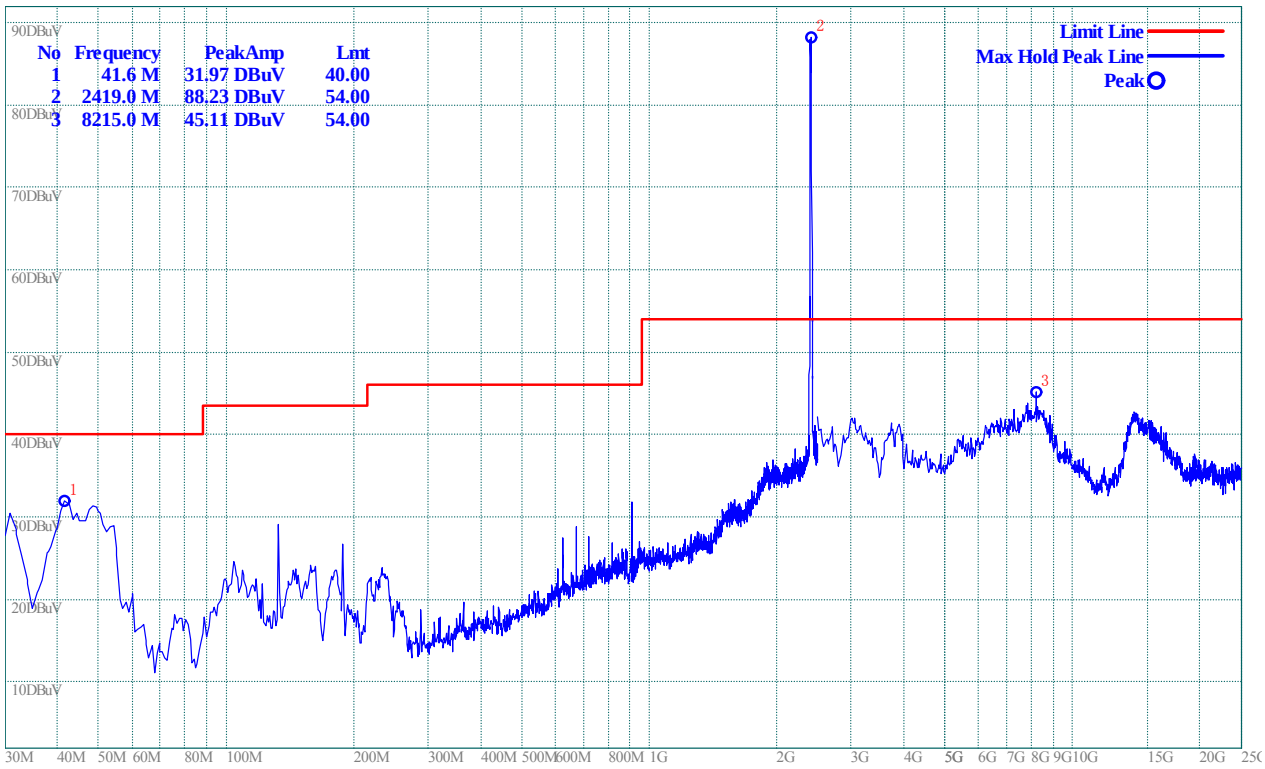
Plots for Channel = 1



(Plot A.1: 9kHz to 30MHz)

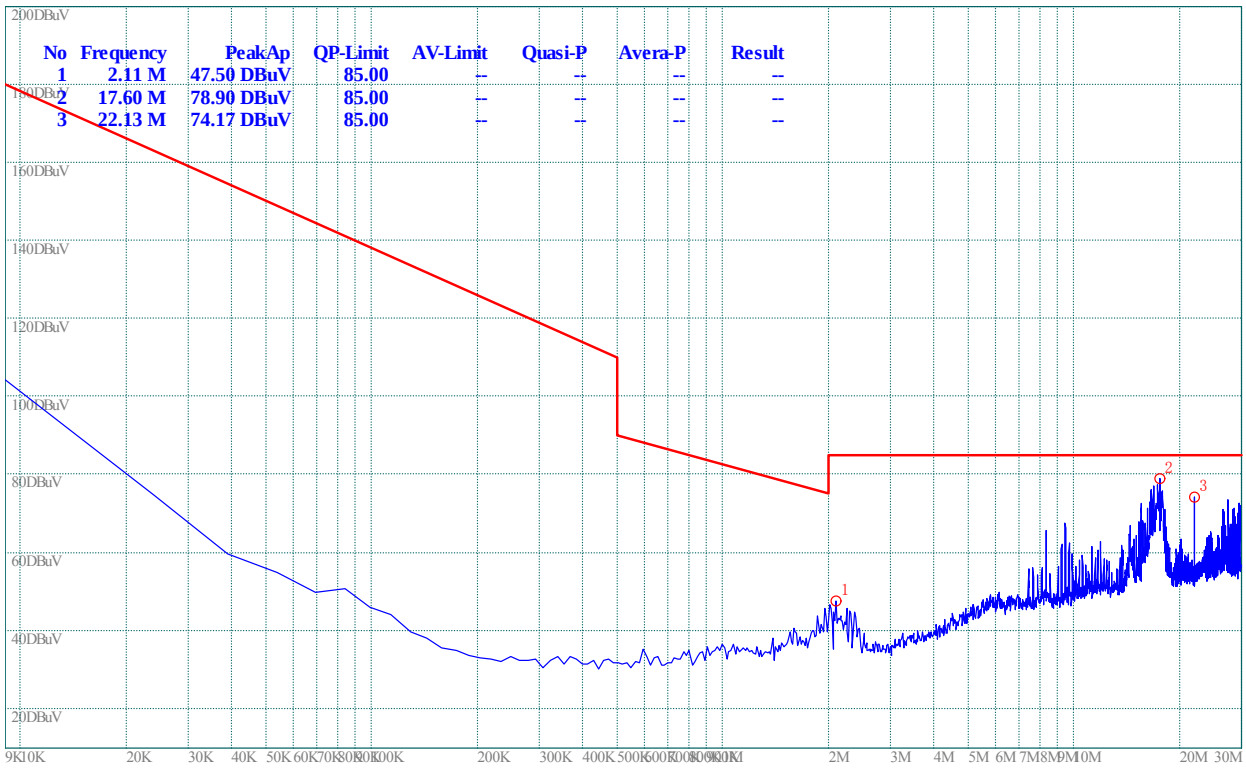


(Plot A.2: Antenna Horizontal, 30MHz to 25GHz)

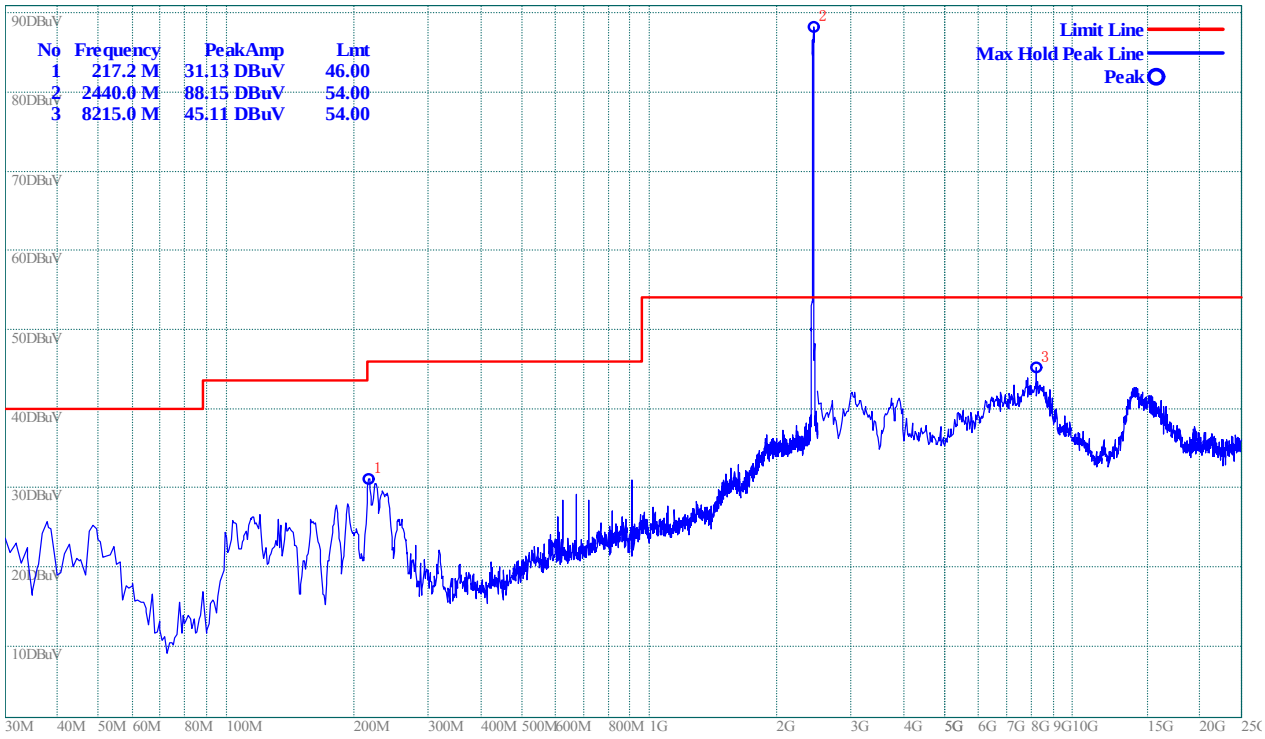


(Plot A.3: Antenna Vertical, 30MHz to 25GHz)

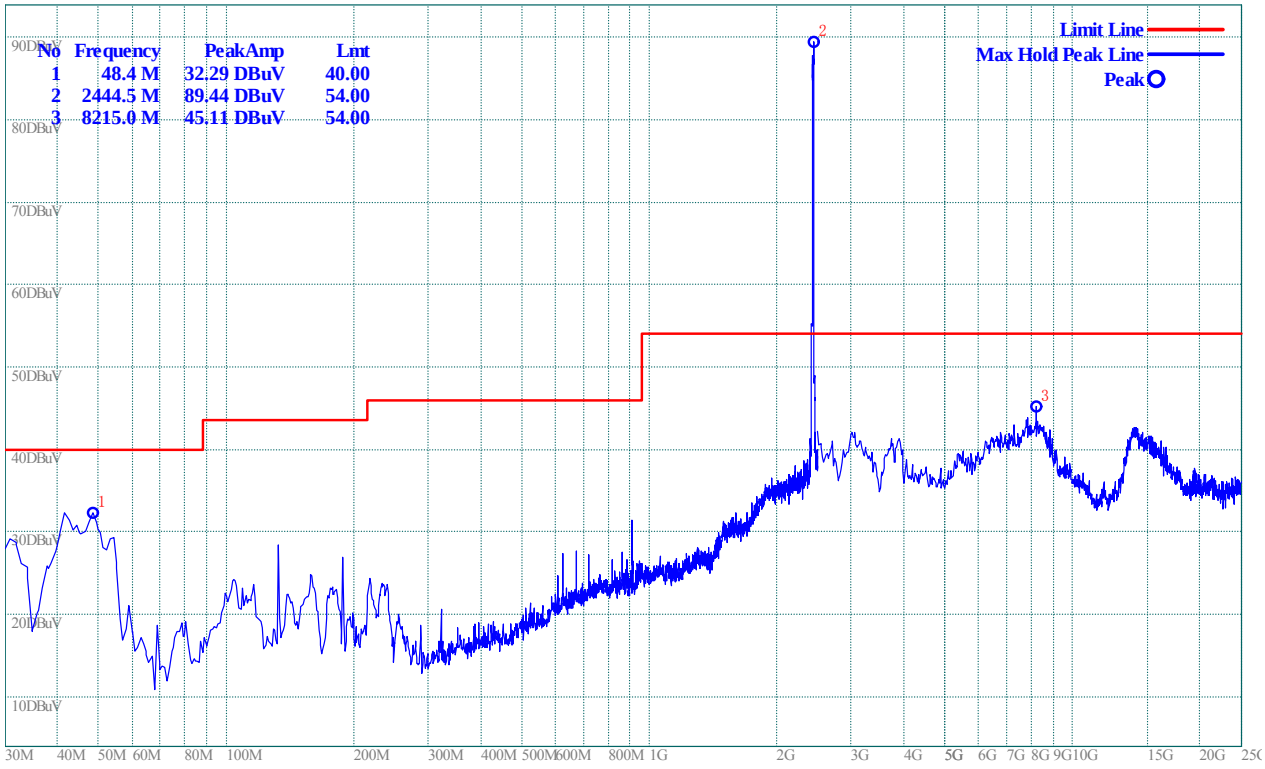
Plot for Channel = 6



(Plot B.1: 9kHz to 30MHz)

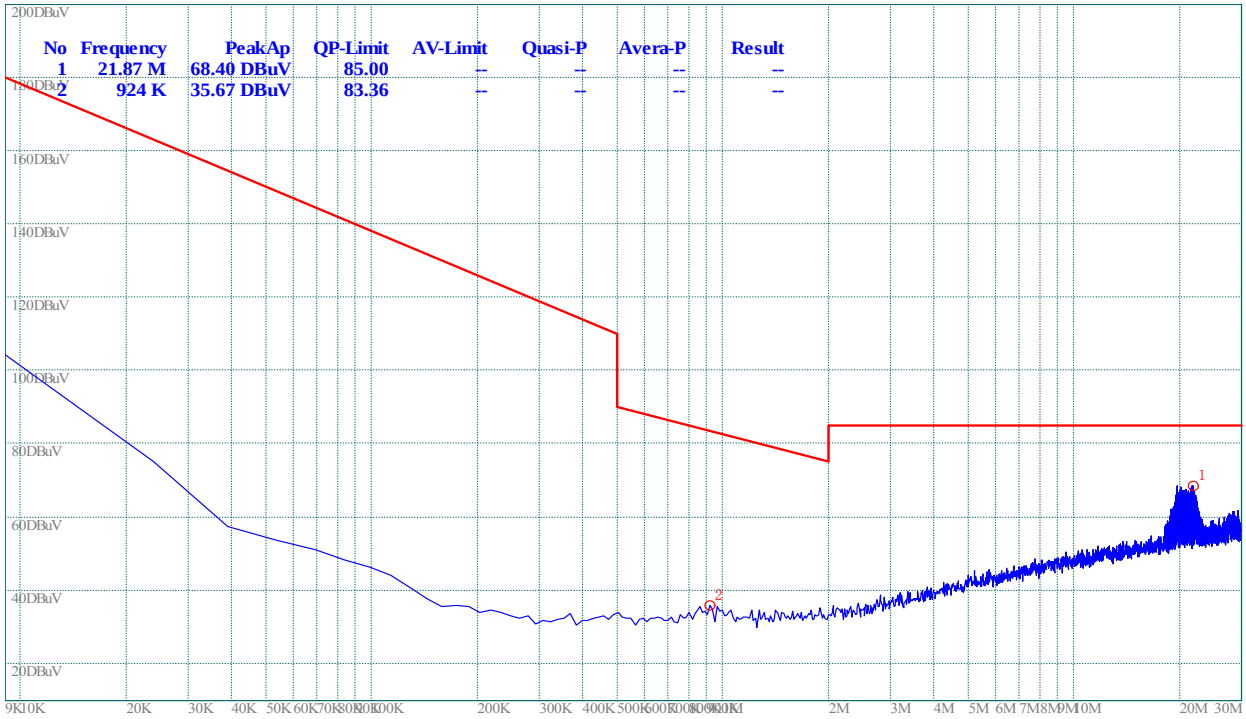


(Plot B.2: Antenna Horizontal, 30MHz to 25GHz)

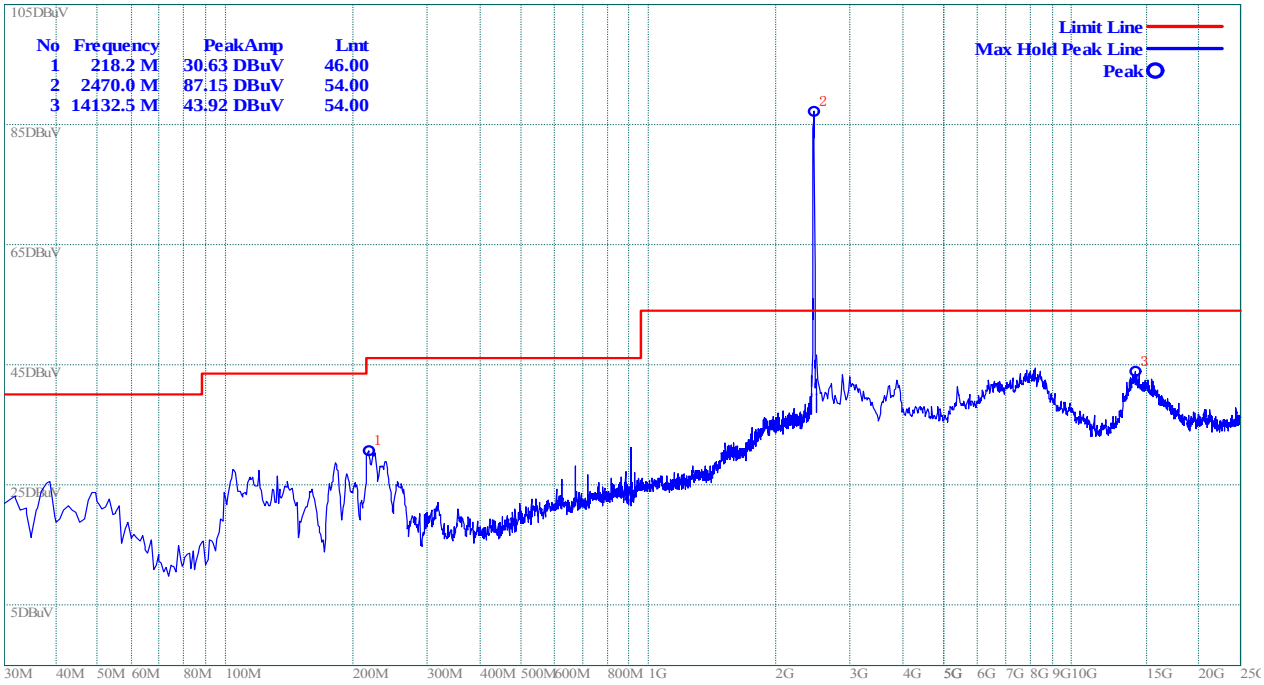


(Plot B.3: Antenna Vertical, 30MHz to 25GHz)

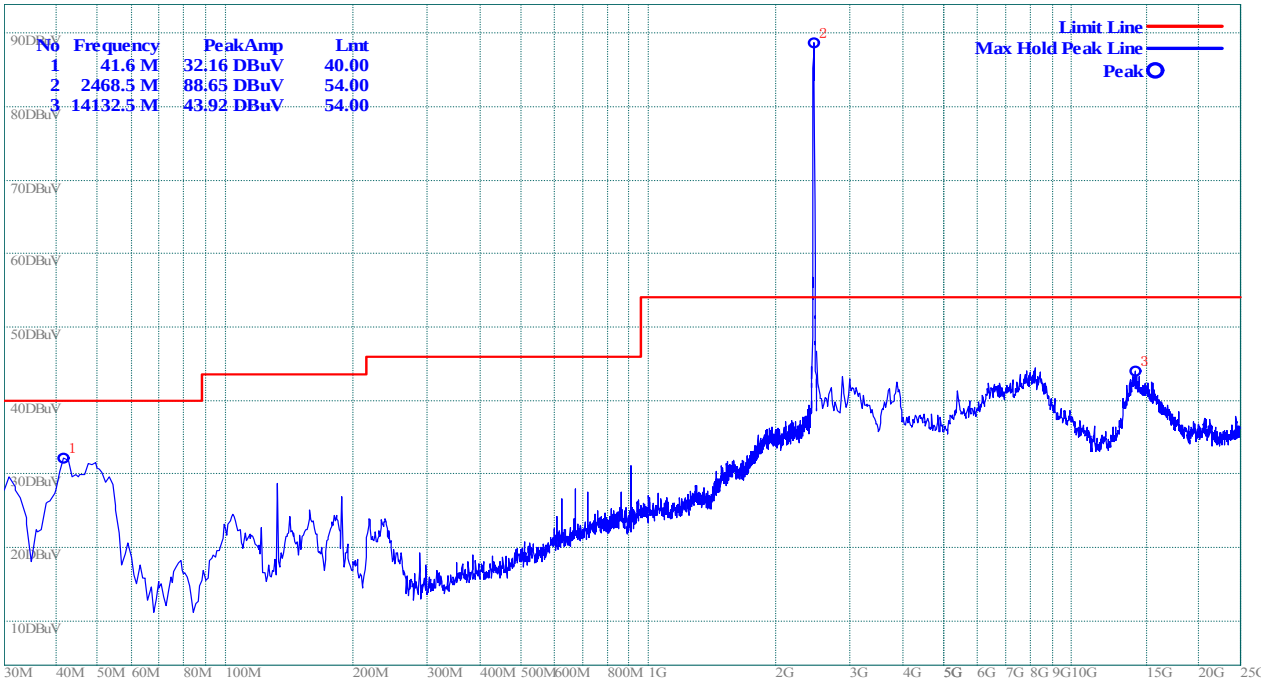
Plot for Channel = 11



(Plot C.1: 9kHz to 30MHz)



(Plot C.2: Antenna Horizontal, 30MHz to 25GHz)



(Plot C.3: Antenna Vertical, 30MHz to 25GHz)

Test Result: Pass

** END OF REPORT **