



# FCC 47 CFR PART 15 SUBPART C

## TEST REPORT

*For*

**Applicant :** Outform Ltd.

**Address :** R405, East, Buliding 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China

**Product Name :** Retail Tablet

**Model Name :** UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M, UID0350-XXX, UID0354-XXX (The first "X" is A-Z which stand for the color, The second "X" is A-Z which stand for the country, the third "X" is 0 or 1(0 is light color, 1 is dark color))

**Brand Name :** I-DISPLAY

**FCC ID :** Y34-UID0350

**Report No. :** MTE/EAH/E11121708

**Date of Issue :** Jan. 21, 2012

**Issued by :** Most Technology Service Co., Ltd.

**Address :** No.5, Langshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China

**Tel :** 86-755-8617 0306

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## 1. VERIFICATION OF CONFORMITY

**Equipment Under Test:** Retail Tablet

**Brand Name:** I-DISPLAY

**Model Number:** UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M

**Series Model Number:** UID0350-XXX, UID0354-XXX (The first "X" is A-Z which stand for the color, The second "X" is A-Z which stand for the country, the third "X" is 0 or 1(0 is light color, 1 is dark color))

**FCC ID:** Y34-UID0350

**Applicant:** Outform Ltd.  
R405, East, Building 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China

**Manufacturer:** Outform Ltd.  
R405, East, Building 203, Tai Ran Industrial Zone, Chengongmiao, Futian, Shenzhen, China

**Technical Standards:** 47 CFR Part 15 Subpart C

**File Number:** MTE/EAH/E11121708

**Date of test:** Jan. 05-12, 2012

**Deviation:** None

**Condition of Test Sample:** Normal

**Test Result:** PASS

The above equipment was tested by *MOST* for compliance with the requirements set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Dona Liu

Jan. 17, 2012

Review by (+ signature):

Elva Wong

Jan. 20, 2012

Approved by (+ signature):

Yvette Zhou(Manager)

Jan. 21, 2012

## 2. GENERAL INFORMATION

### 2.1 Product Information

Description:	Retail Tablet
Model Name:	UID0350: RETAIL TABLET S, UID0354: RETAIL TABLET M
Series Number:	UID0350-XXX, UID0354-XXX (The first "X" is A-Z which stand for the color, The second "X" is A-Z which stand for the country, the third "X" is 0 or 1(0 is light color, 1 is dark color))
Model Difference description:	<ol style="list-style-type: none"> <li>1. The series models are different in model name and size with the same functions.</li> <li>2. The size of "S" is 7 inch.</li> <li>3. The size of "M" is 10 inch.</li> </ol>
Frequency Range:	2412MHz – 2462MHz
Number of Channels:	IEEE 802.11b/g/n mode: 11 Channels
Modulation Technique:	IEEE 802.11b mode: DSSS (1, 2, 5.5 and 11 Mbps) IEEE 802.11g mode: OFDM (6, 9, 12, 18, 24, 36, 48 and 54 Mbps) 802.11n Standard-20 MHz Channel mode: OFDM (6.5, 13, 19.5, 26, 39, 52, 58.5, 65.0Mbps)
I/O Ports:	Output Port: Headphone Port, HDMI Port Input Port: SD Port, USB1 Port, USB2 Port, SIM Card, DC Power Port
Antenna Type:	Internal Fixed
Antenna Gain:	2.0dBi
Power Supply:	DC 9V by AC adapter (100-240V, 50/60Hz)
Temperature Range:	-20°C ~ +50°C

**NOTE:**

1. For a more detailed features description about the EUT, please refer to User's Manual.
2. The USB1 Port was used to charge function, the USB2 Port was connected with the Mouse, Two USB Ports without data exchange can't transmit, The HDMI Port was connected with LCD Monitor through Link Line.

## 2.2 Objective

Perform FCC Part 15 Subpart B tests for FCC Marking.

## 2.3 Test Standards and Results

Test items and the results are as bellow:

No.	Section	Description	Result	Date of Test
1	15.247(a)(2)	6dB Bandwidth	PASS	2012/01/10
2	15.247(b)(3)	Peak Output Power	PASS	2012/01/10
3	15.247(d)	conducted spurious emission	PASS	2012/01/10
4	15.247(d)	Band Edge	PASS	2012/01/10-2012/01/20
5	15.247(e)	Power Spectral Density	PASS	012/01/10
6	15.207	Conducted Emission	PASS	2012-01-05
7	15.247(d) 15.205 15.209	Radiated Emission	PASS	2012-01-05

*Note:* 1. The test result judgment is decided by the limit of measurement standard  
 2. The information of measurement uncertainty is available upon the customer's request.

## 2.4 Environmental Conditions

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

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

### 3. TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Nangshan 2nd Rd., North Hi-Tech Industrial park, Nanshan, Shenzhen, Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4 and CISPR 16 requirements.

The FCC Registration Number is **490827**.

Site Filing: The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal dimensions larger than one-tenth of a wavelength at the highest frequency of measurement up to 1GHz.

## 4. TEST EQUIPMENT LIST

**Instrumentation:** The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1/ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
2	Spectrum Analyzer	Agilent	E7405A	US44210471	2012/03/14
3	L.I.S.N.	Rohde & Schwarz	ENV216	100093	2012/03/14
4	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
5	Terminator	Hubersuhner	50Ω	No.1	2012/03/14
6	RF Cable	SchwarzBeck	N/A	No.1	2012/03/14
7	Test Receiver	Rohde & Schwarz	ESPI	101202	2012/03/14
8	Bilog Antenna	Sunol	JB3	A121206	2012/03/14
9	Horn Antenna	TRC	N/A	N/A	2012/03/14
10	Cable	Resenberger	N/A	NO.1	2012/03/14
11	Cable	SchwarzBeck	N/A	NO.2	2012/03/14
12	Cable	SchwarzBeck	N/A	NO.3	2012/03/14
13	DC Power Filter	DuoJi	DL2×30B	N/A	2012/03/14
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2012/03/14
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2012/03/14
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2012/03/14
17	Absorbing Clamp	Luthi	MDS21	3635	2012/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2012/03/14
19	AC Power Source	Kikusui	AC40MA	LM003232	2012/03/14
20	Test Analyzer	Kikusui	KHA1000	LM003720	2012/03/14
21	Line Impedence Network	Kikusui	LIN40MA-PCR-L	LM002352	2012/03/14
22	ESD Tester	Kikusui	KES4021	LM003537	2012/03/14
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2012/03/14
24	Signal Generator	IFR	2032	203002/100	2012/03/14
25	Amplifier	A&R	150W1000	301584	2012/03/14
26	CDN	FCC	FCC-801-M2-25	47	2012/03/14
27	CDN	FCC	FCC-801-M3-25	107	2012/03/14
28	EM Injection Clamp	FCC	F-203I-23mm	403	2012/03/14
29	RF Cable	MIYAZAKI	N/A	No.1/No.2	2012/03/14
30	Universal Radio Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2012/03/14
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2012/03/14

**NOTE:** Equipments listed above have been calibrated and are in the period of validation.

## 5. 47 CFR Part 15 C 15.247 Requirements

### 5.1 6dB Bandwidth

#### 5.1.1 Definition

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

#### 5.1.2 Test Description

The EUT is powered by the Battery, is coupled to the Spectrum Analyzer (SA) through the Attenuator/DC Block. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power. The RF load attached to the EUT antenna terminal is 500Ω.

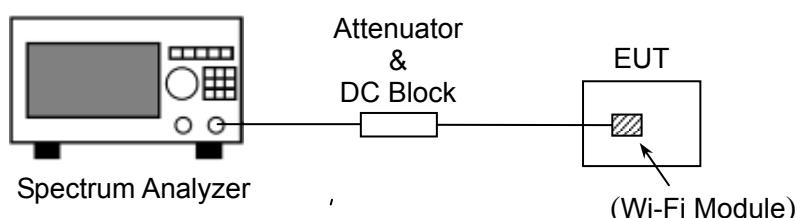


Figure 1: RF Test Setup

### 5.1.3 Test Result

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

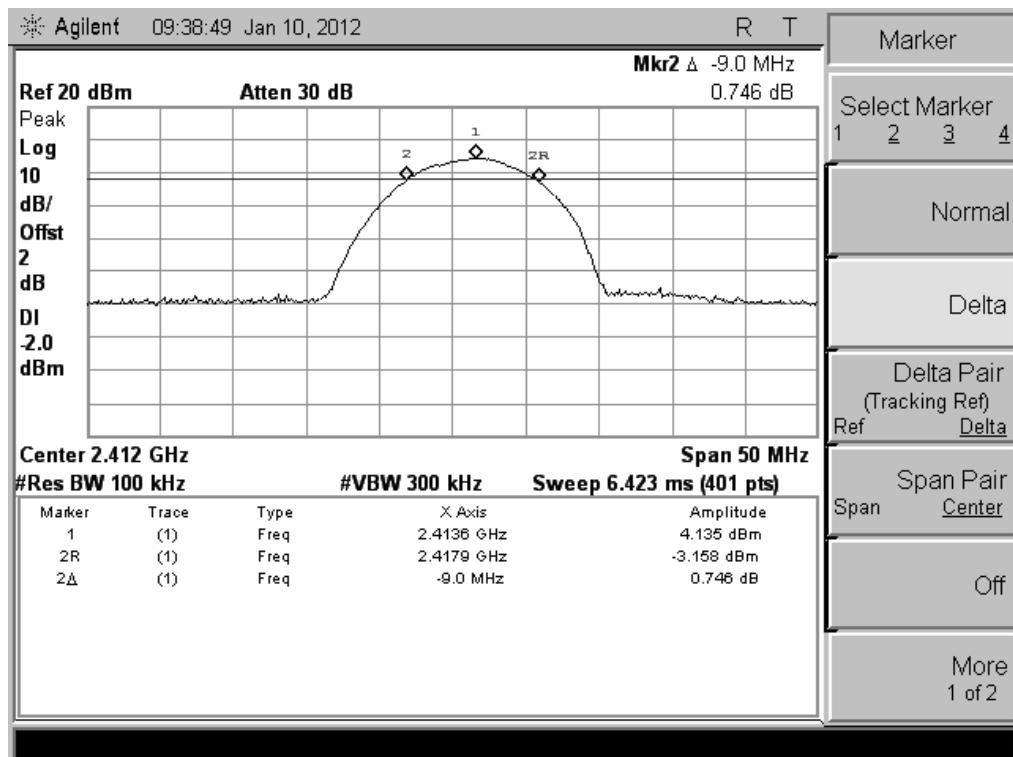
#### 5.1.3.1 802.11b Test Mode

The minimum occupied bandwidth for the fundamental frequency 2462 MHz is 8.5 MHz. This occupied bandwidth complies with the FCC requirement.

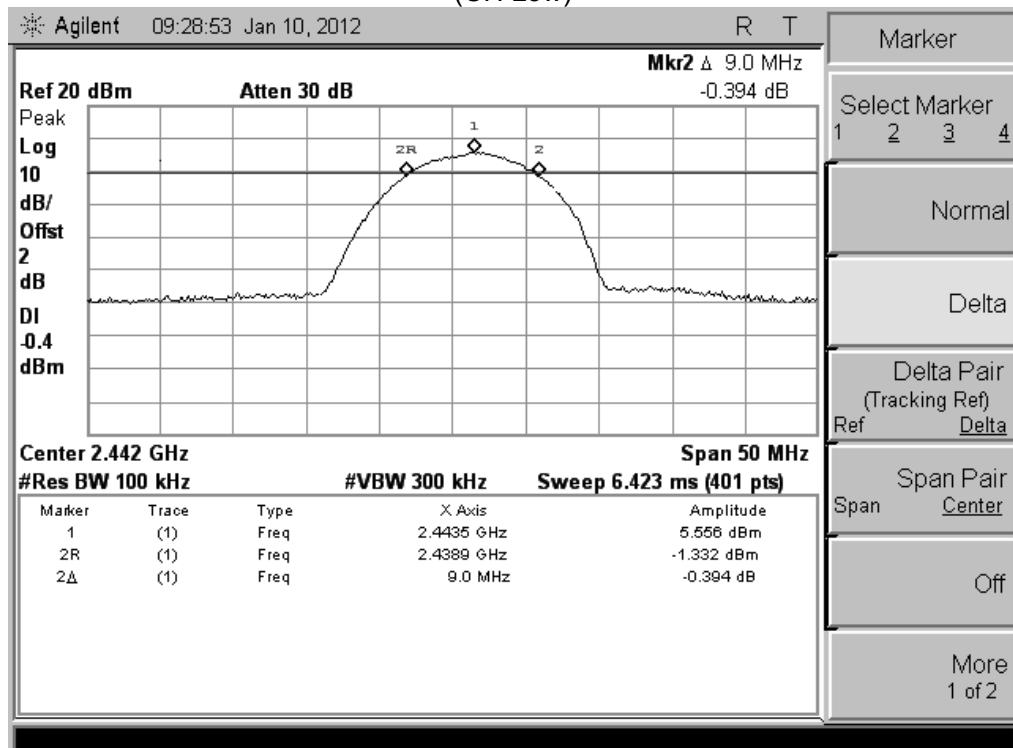
##### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	9.0	≥500	PASS
7	2442	9.0	≥500	PASS
11	2462	8.5	≥500	PASS

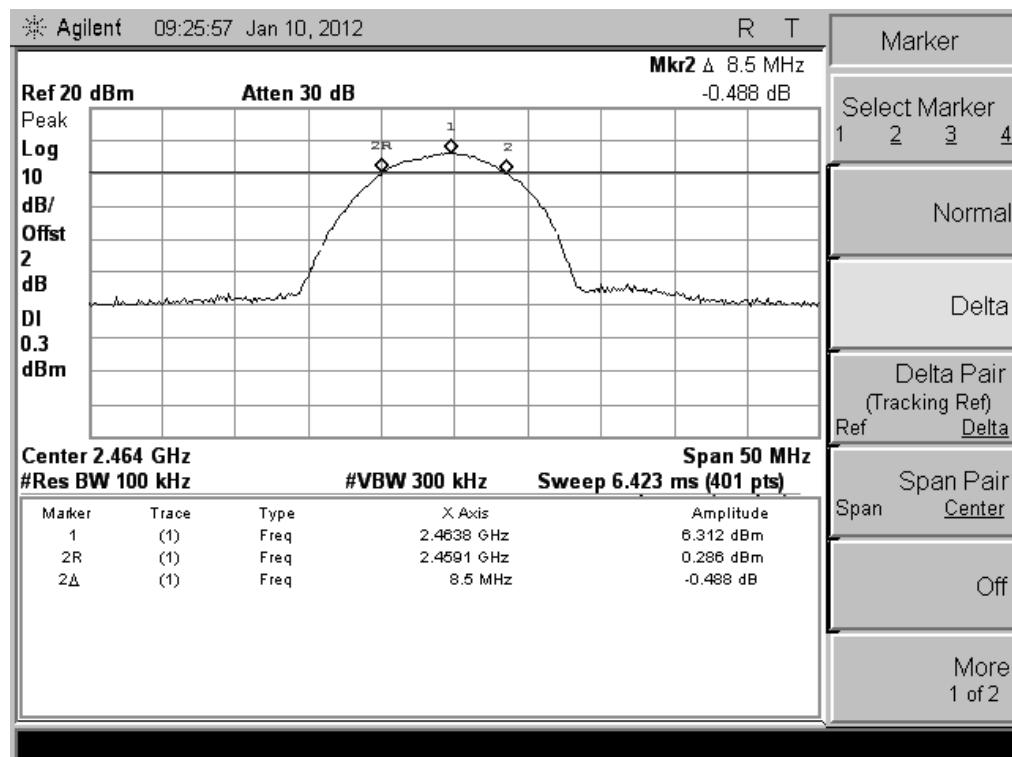
## B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

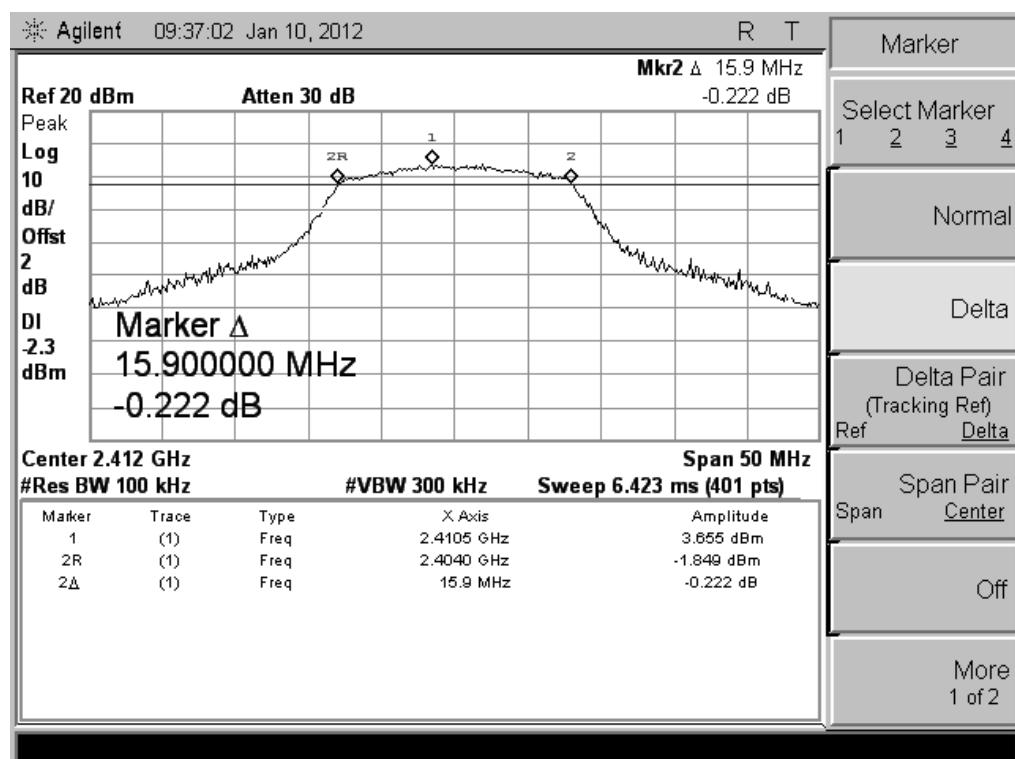
### 5.1.3.2 802.11g Test Mode

The minimum occupied bandwidth for the fundamental frequency 2412MHz is 15.9MHz. This occupied bandwidth complies with the FCC requirement.

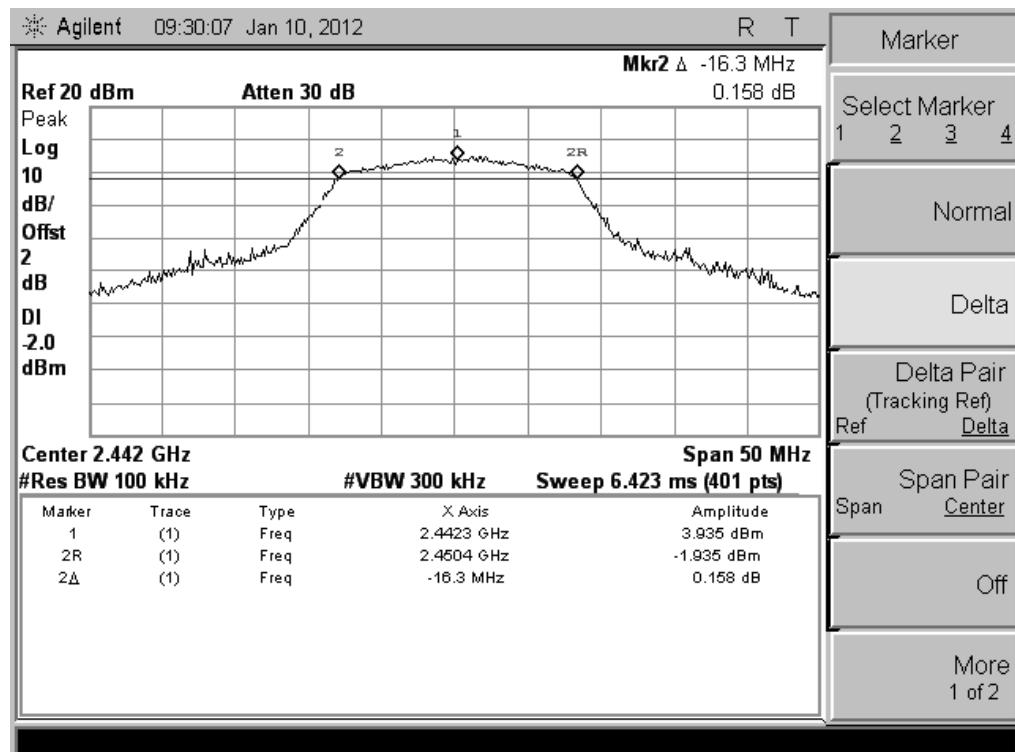
#### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.9	≥500	PASS
7	2442	16.3	≥500	PASS
11	2462	15.9	≥500	PASS

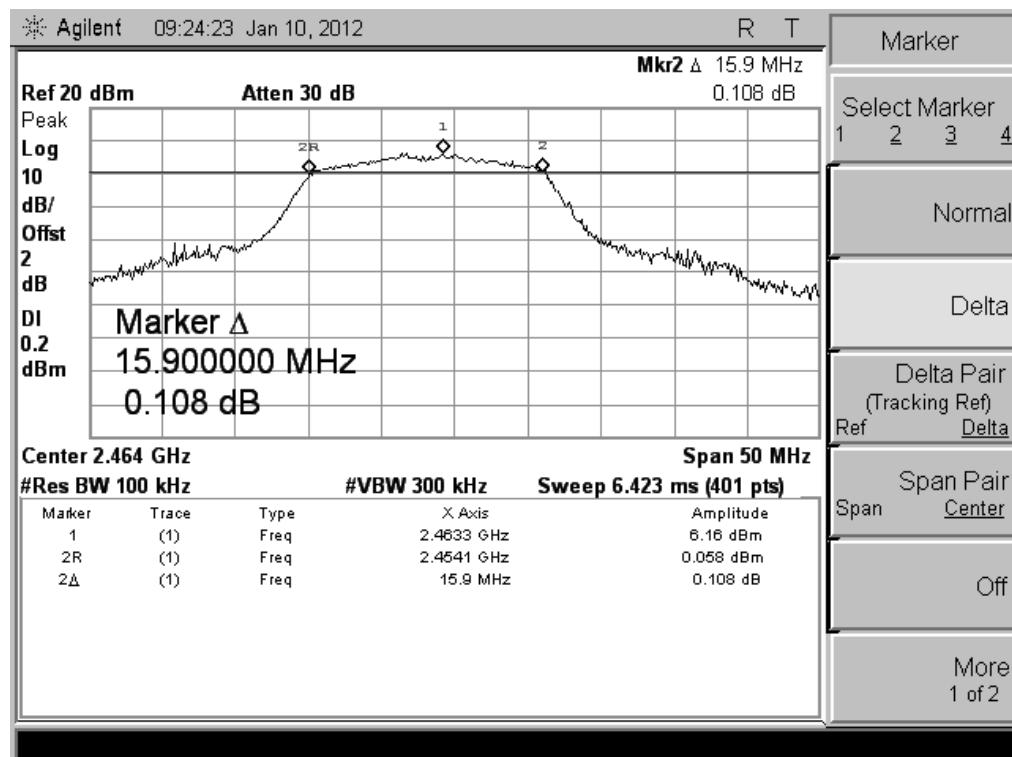
## B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

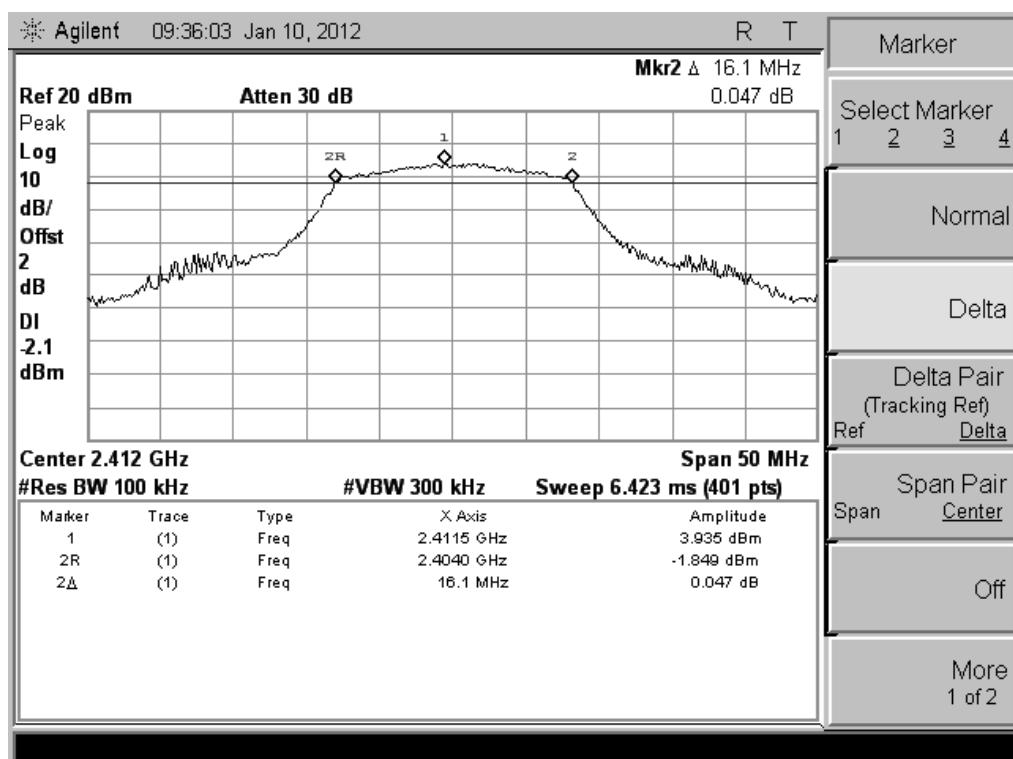
### 5.1.3.3 802.11n Test Mode

The minimum occupied bandwidth for the fundamental frequency 2442MHz is 15.8MHz. This occupied bandwidth complies with the FCC requirement.

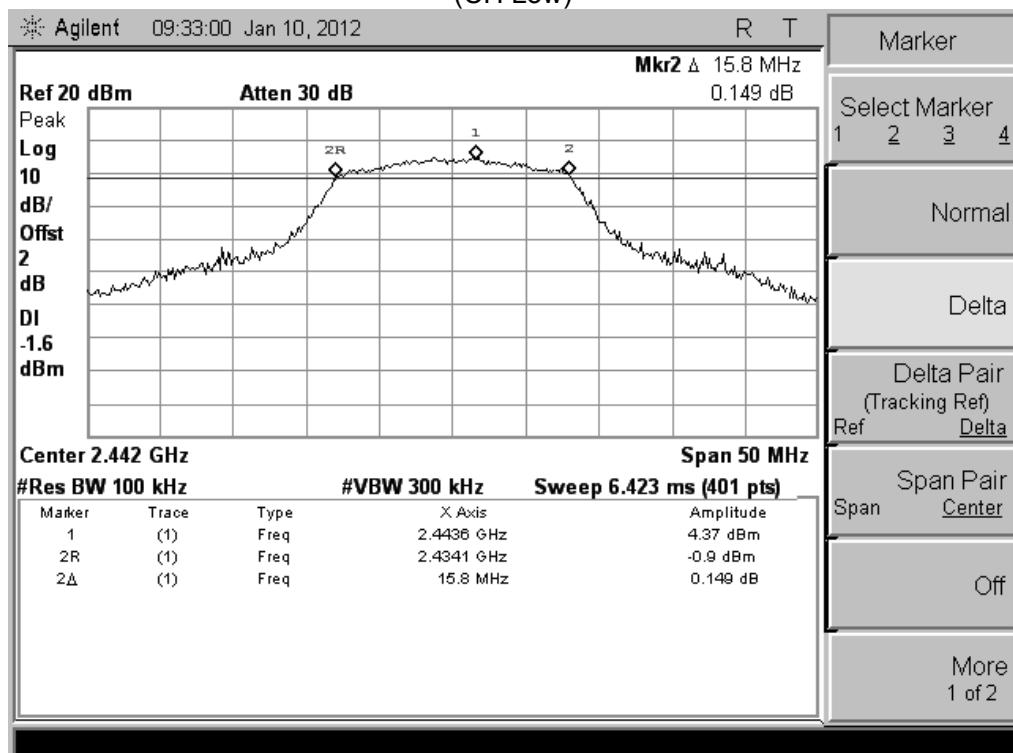
#### A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	16.1	$\geq 500$	PASS
7	2442	15.8	$\geq 500$	PASS
11	2462	16.1	$\geq 500$	PASS

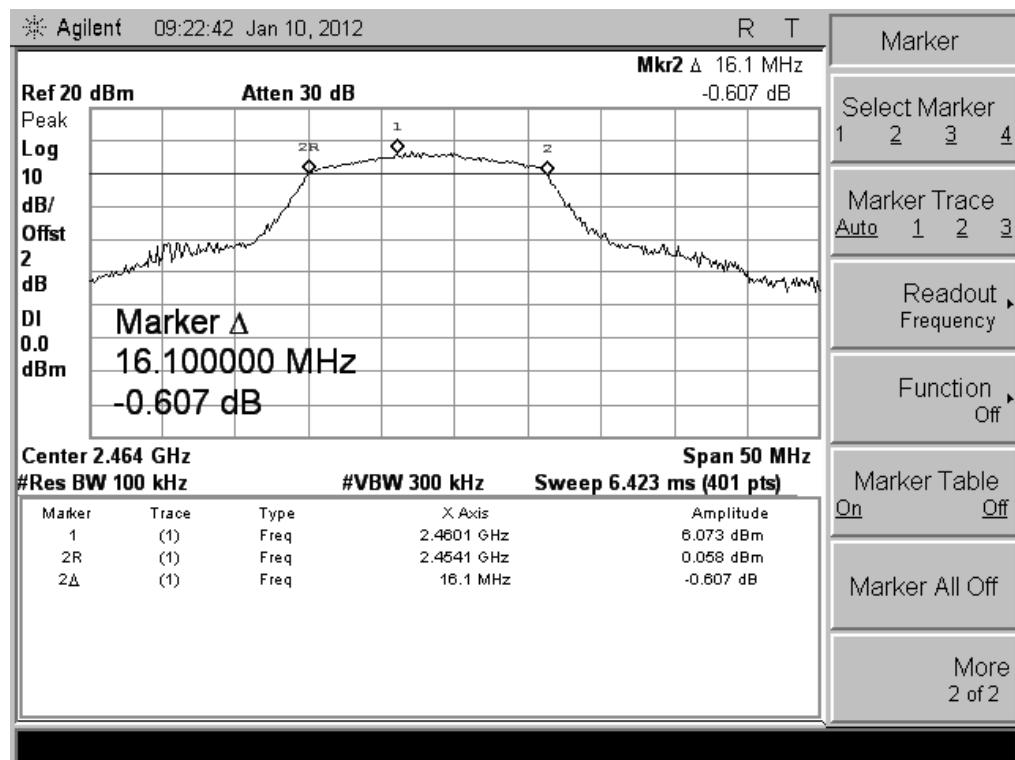
## B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

## 5.2 Peak Output Power

### 5.2.1 Definition

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz 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.

### 5.2.2 Test Description



The EUT which is powered by AC adapter, 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.

### 5.2.3 Test Result

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

#### 5.2.3.1 802.11b Test Mode

The maximum output power for the fundamental frequency 2462MHz is 6.138dBm. This power complies with the FCC requirement.

##### A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	4.972	0.003	30	1	PASS
7	2442	6.014	0.004			PASS
11	2462	6.138	0.004			PASS

#### 5.2.3.2 802.11g Test Mode

The maximum output power for the fundamental frequency 2462 MHz is 5.986dBm. This power complies with the FCC requirement.

##### A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	3.551	0.002	30	1	PASS
7	2442	5.475	0.003			PASS
11	2462	5.986	0.003			PASS

### 5.2.3.3 802.11n Test Mode

The maximum output power for the fundamental frequency 2462MHz is 5.973dBm. This power complies with the FCC requirement.

#### A. Test Verdict:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	4.455	0.003	30	1	PASS
7	2442	5.341	0.003			PASS
11	2462	5.973	0.004			PASS

## 5.3 Conducted Spurious Emission

### 5.3.1 Definition

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 5.3.2 Test Description

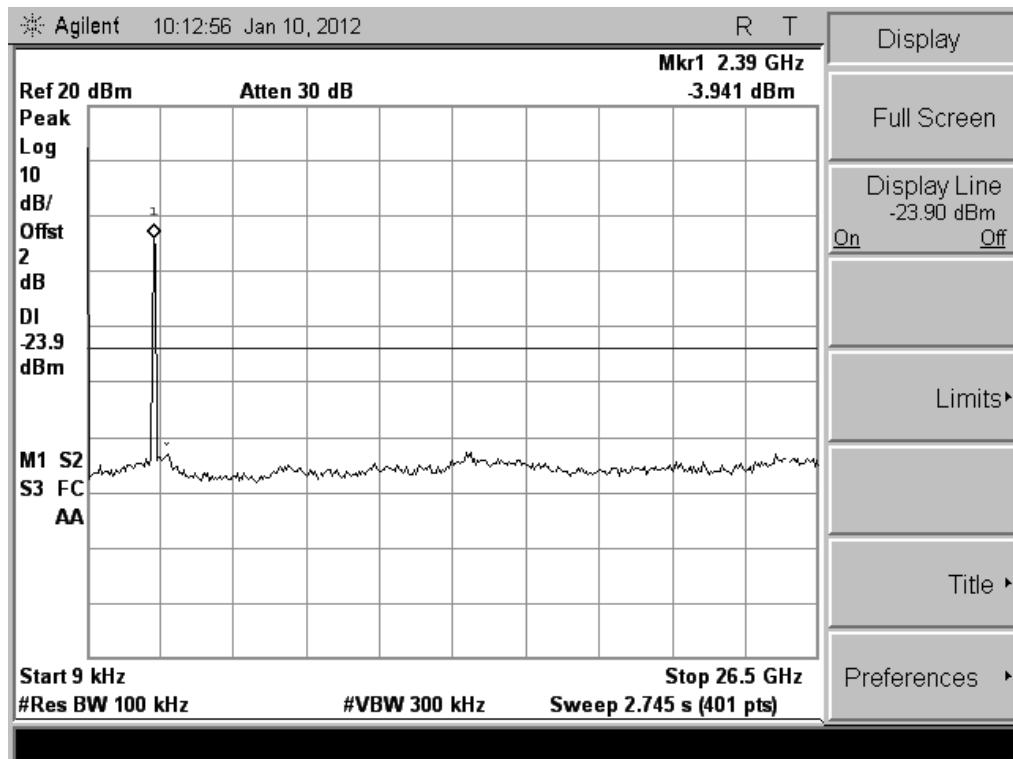
See section 5.1.2 of this report.

### 5.3.3 Test Result

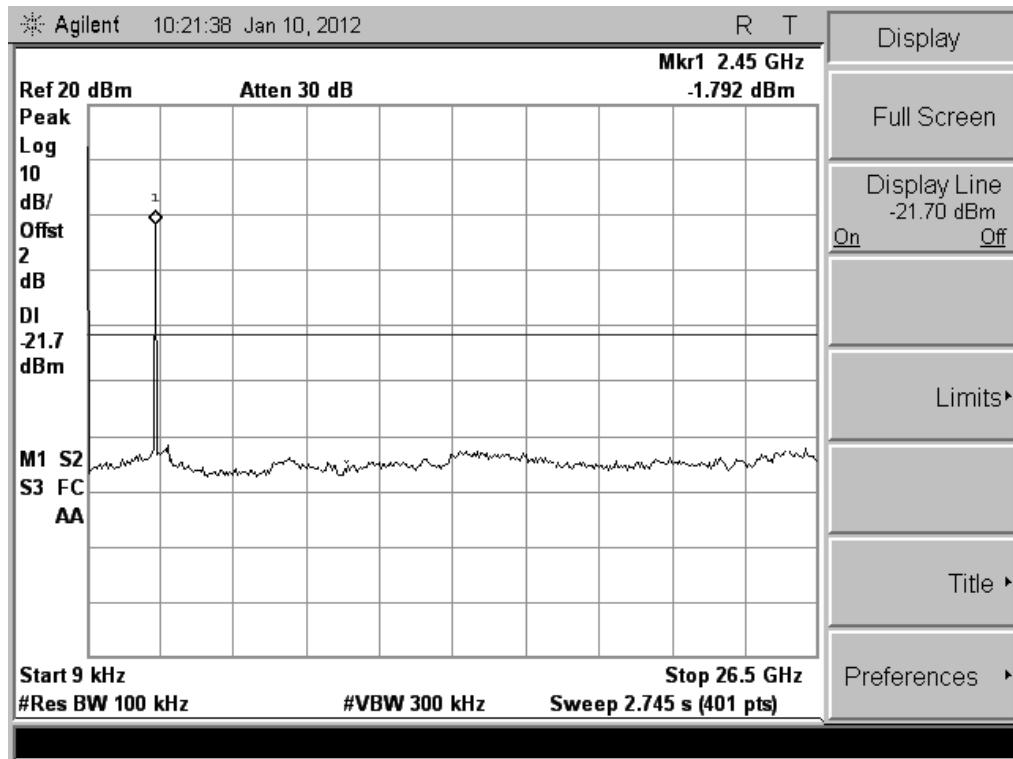
The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.

#### 5.3.3.1 802.11b Test Mode

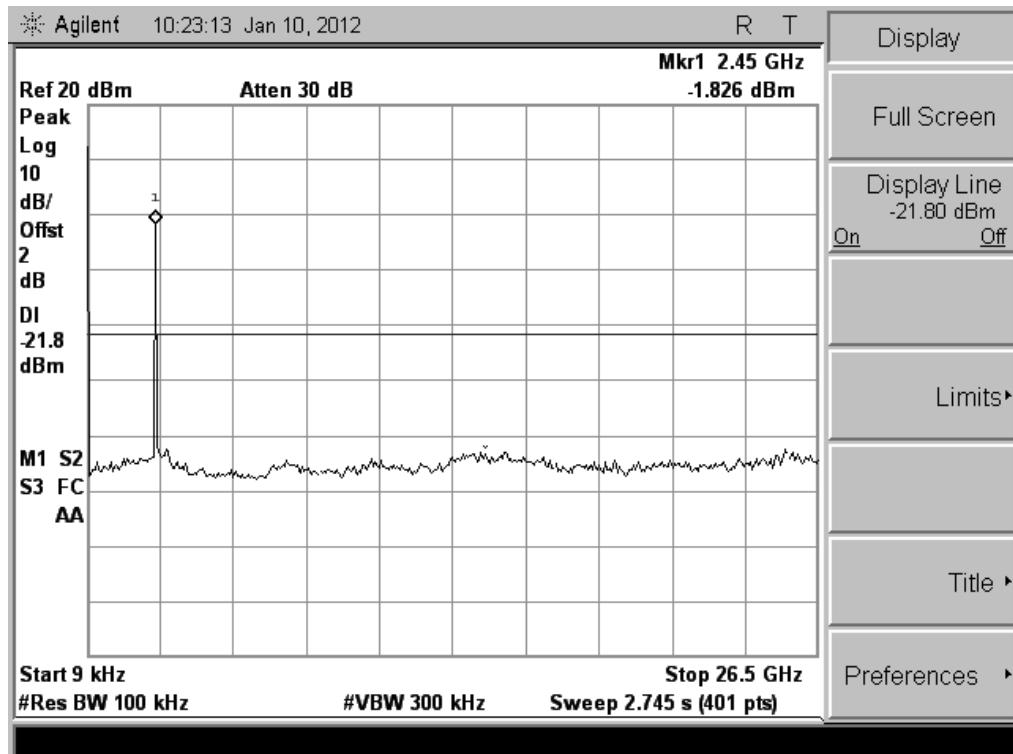
**Test Plot:**



(CH Low, 9kHz to 25GHz)



(CH Mid, 9kHz to 25GHz)



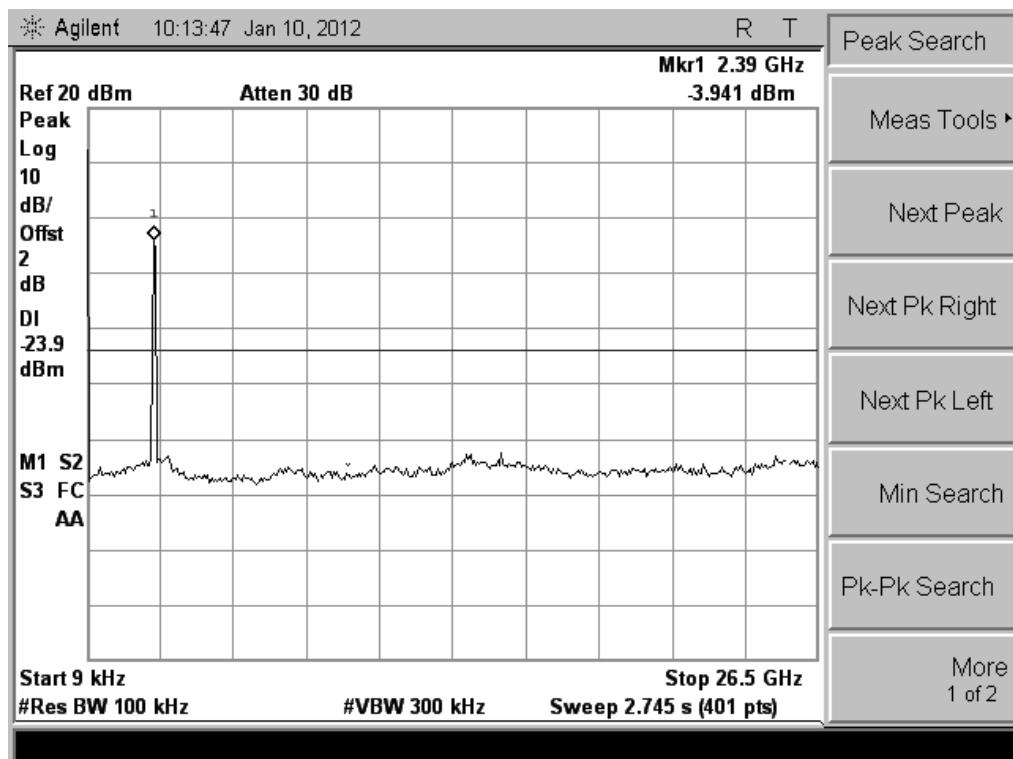
(CH High, 9MHz to 25GHz)

**Note:**

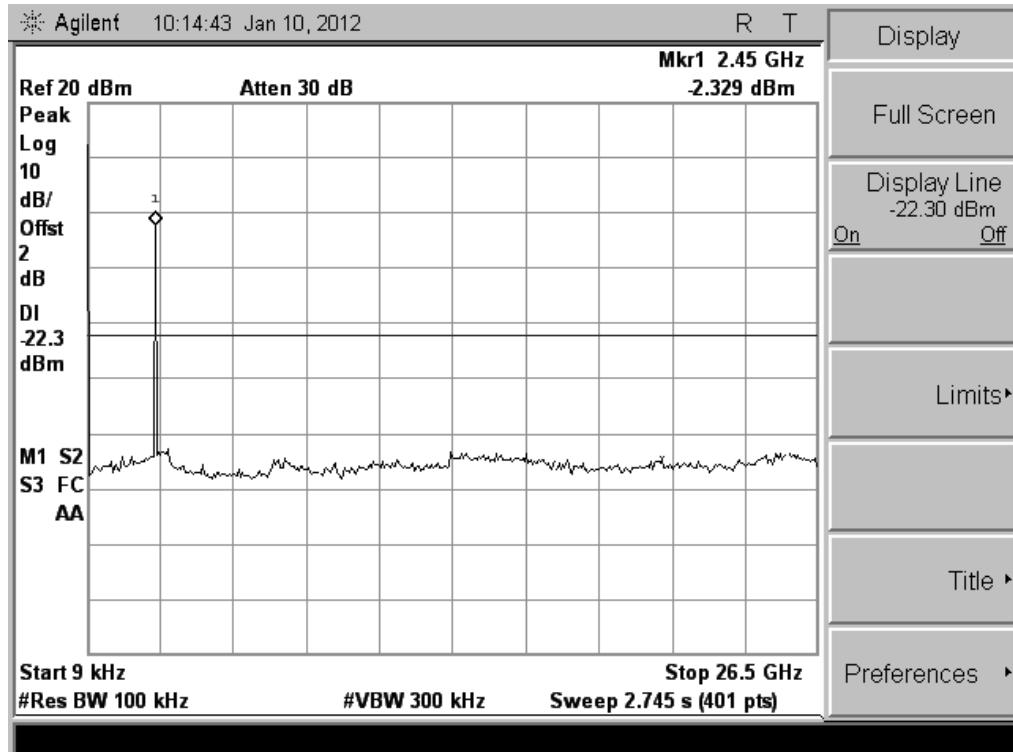
1. The power of the Module transmitting frequency should be ignored.

### 5.3.3.2 802.11g Test Mode

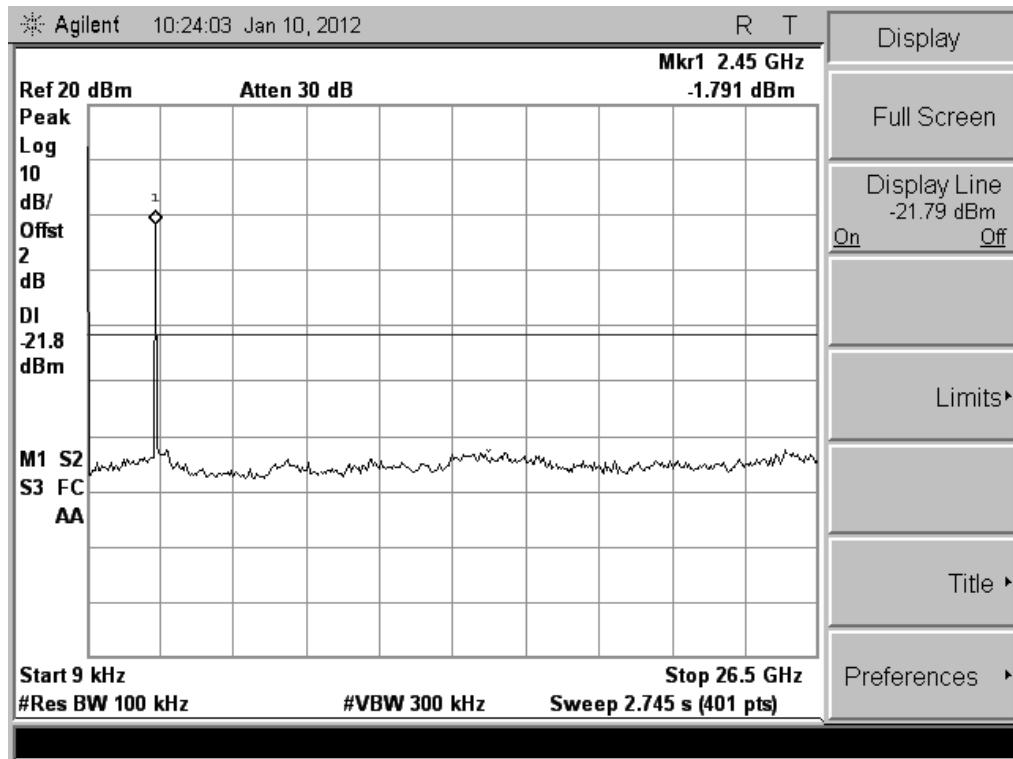
#### Test Plot:



(CH Low, 9kHz to 25GHz)



(CH Mid, 9kHz to 25GHz)



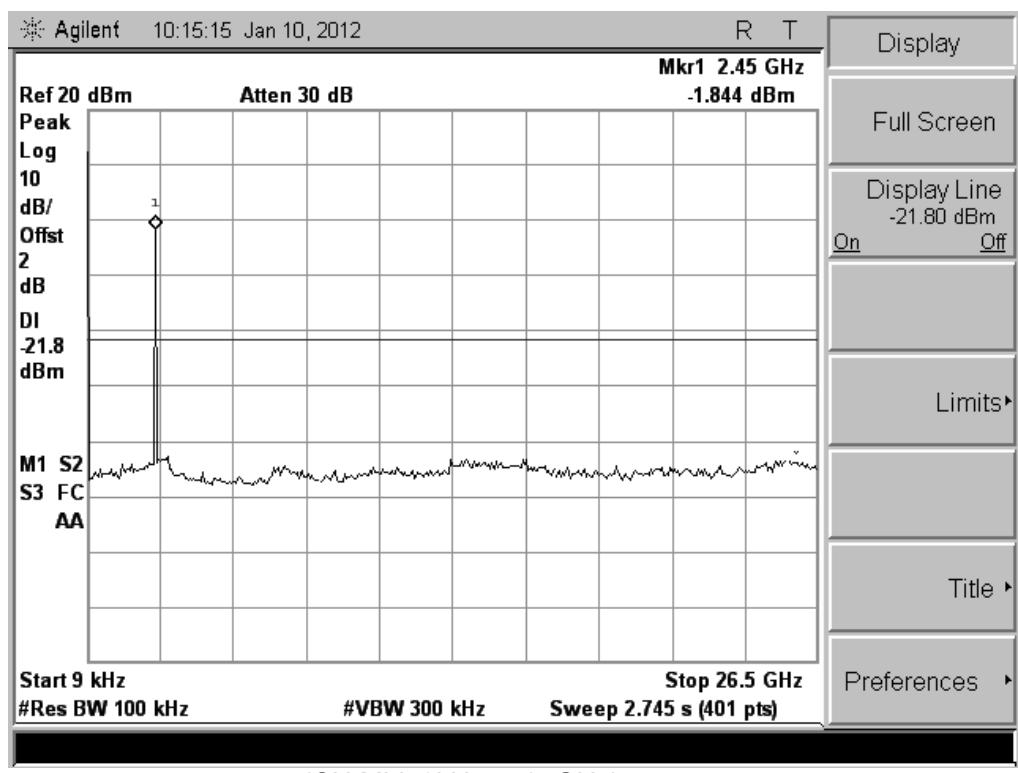
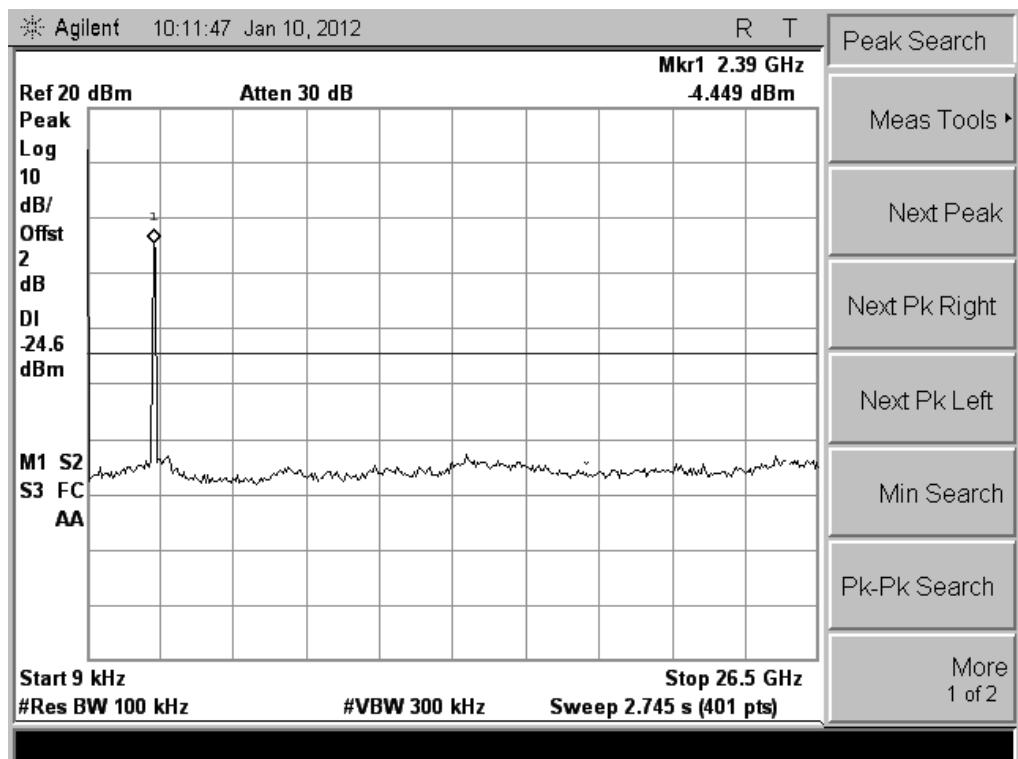
(CH High, 9kHz to 25GHz)

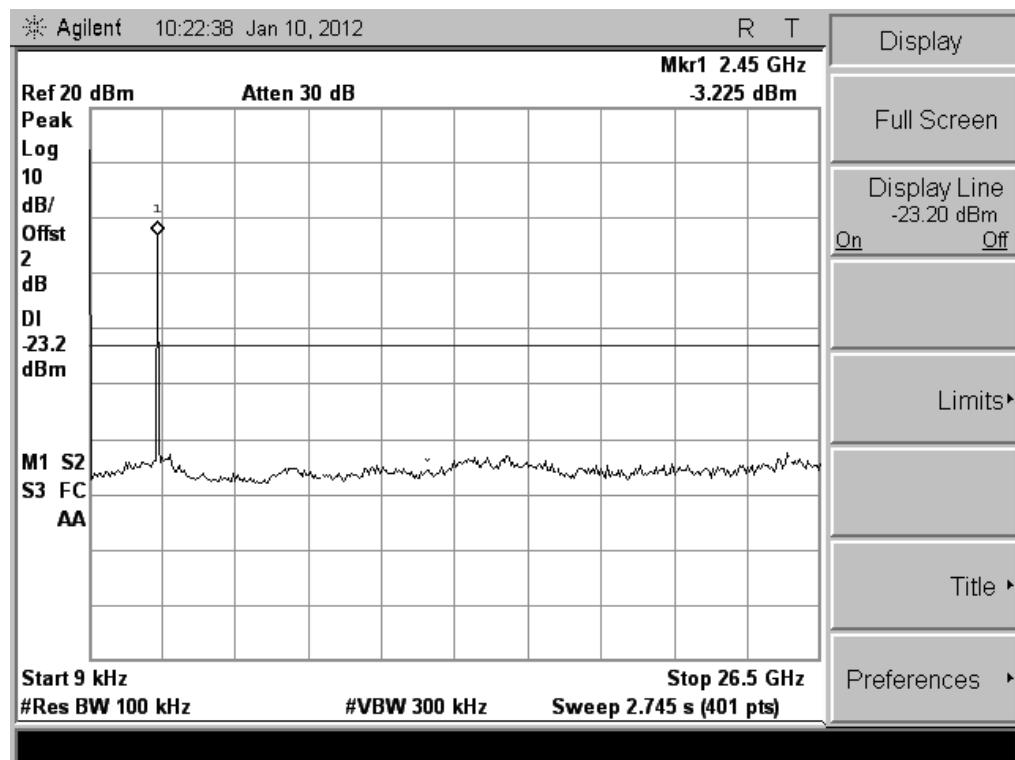
**Note:**

1. The power of the Module transmitting frequency should be ignored.

### 5.3.3.3 802.11n Test Mode

Test Plot:





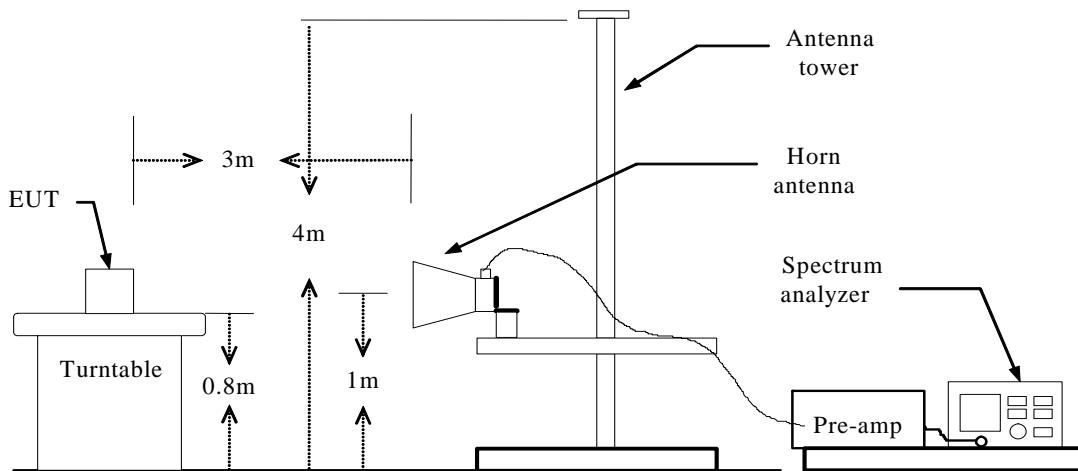
(CH High, 9kHz to 25GHz)

## 5.4 Band Edge

### 5.4.1 Definition

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 5.4.2 Test Description



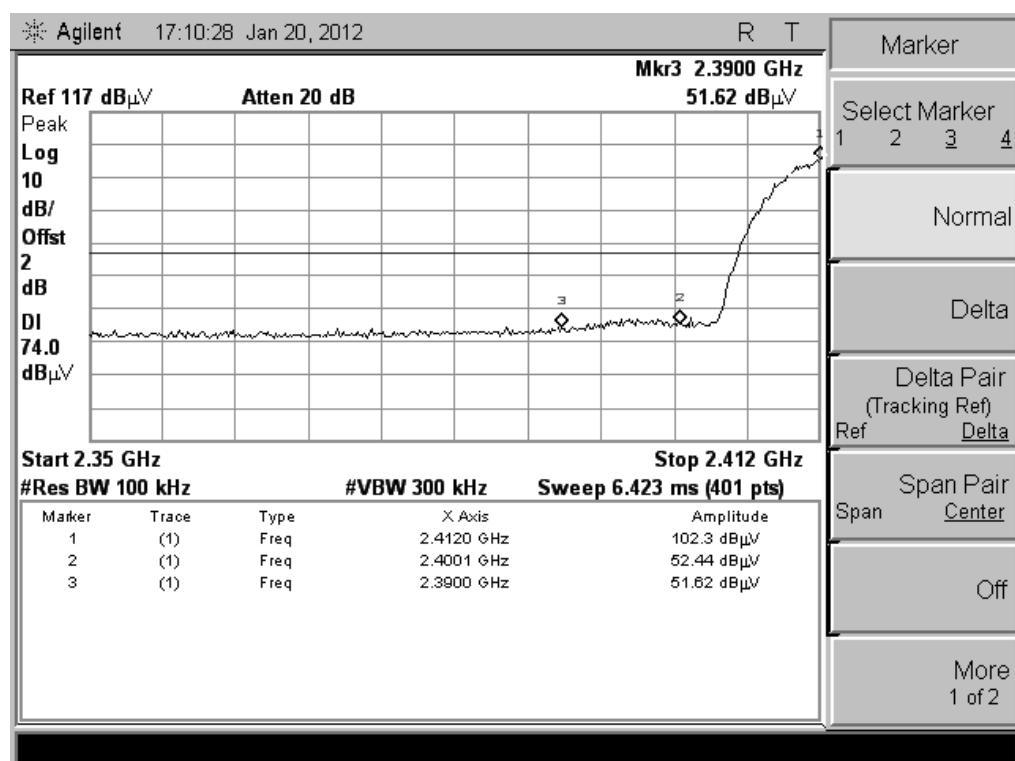
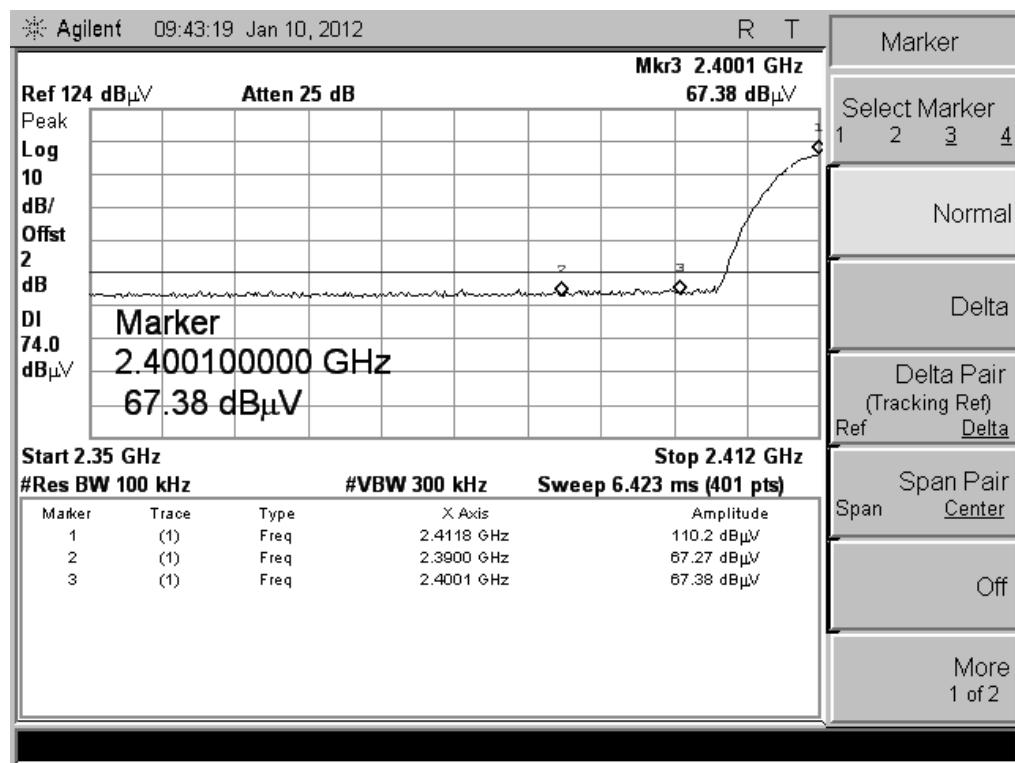
### 5.4.3 Test Result

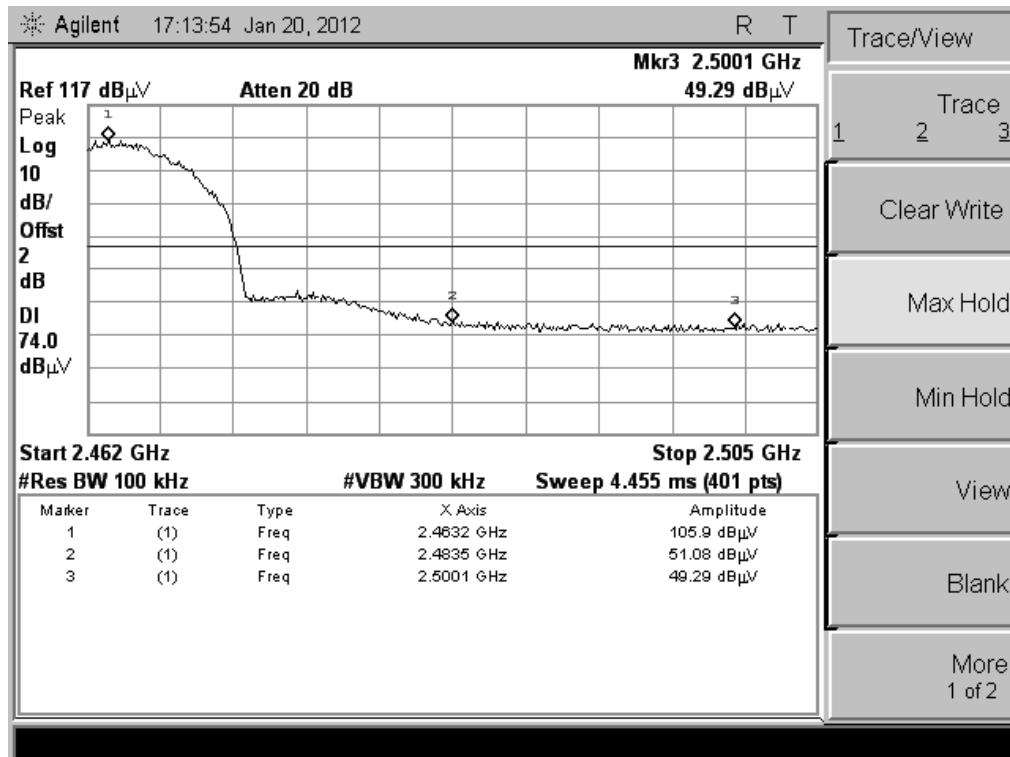
The EUT operates at continuous transmit test mode. The lowest and highest channels are tested to verify the band edge emissions.

#### 5.4.3.1 802.11b Test Mode

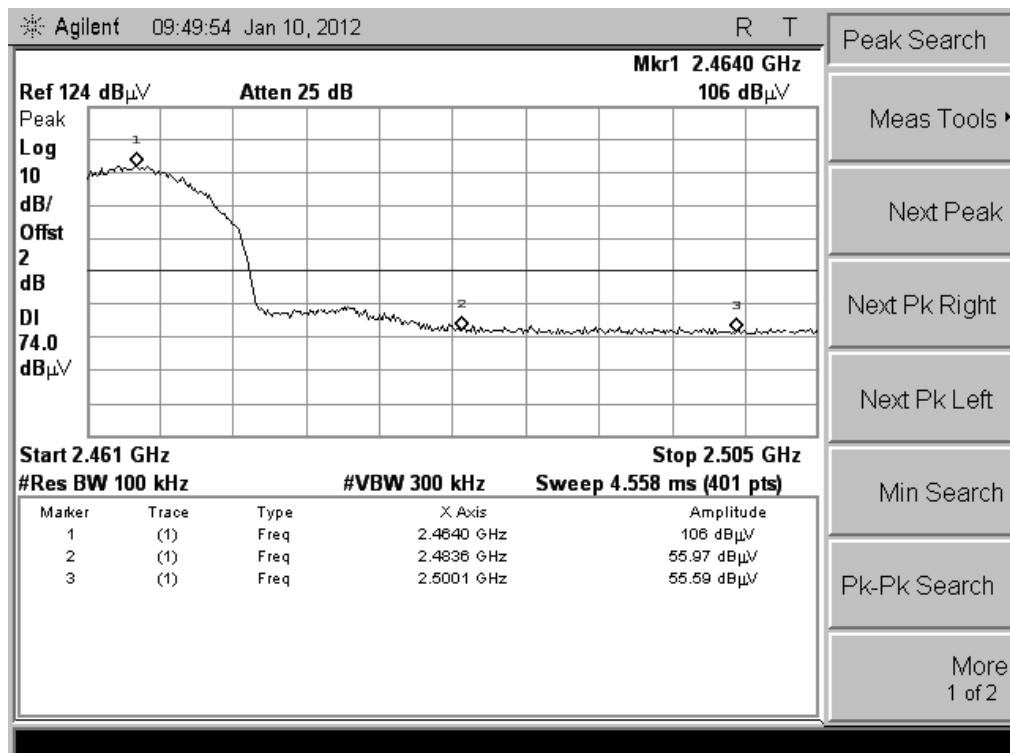
Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Test Result Highest Emission (dBuv/m)			
				Vertical		Horizontal	
				Peak	Average	Peak	Average
WIFI	Low Channel	2390MHz	74(Peak) 54(Average)	67.27	45.20	51.62	31.87
		2400MHz		67.38	46.28	52.44	32.69
	High Channel	2483.5MHz		51.08	30.87	55.97	34.29
		2500MHz		49.29	29.64	55.59	25.74

## Test Plot:





(CH High, Vertical, Peak)

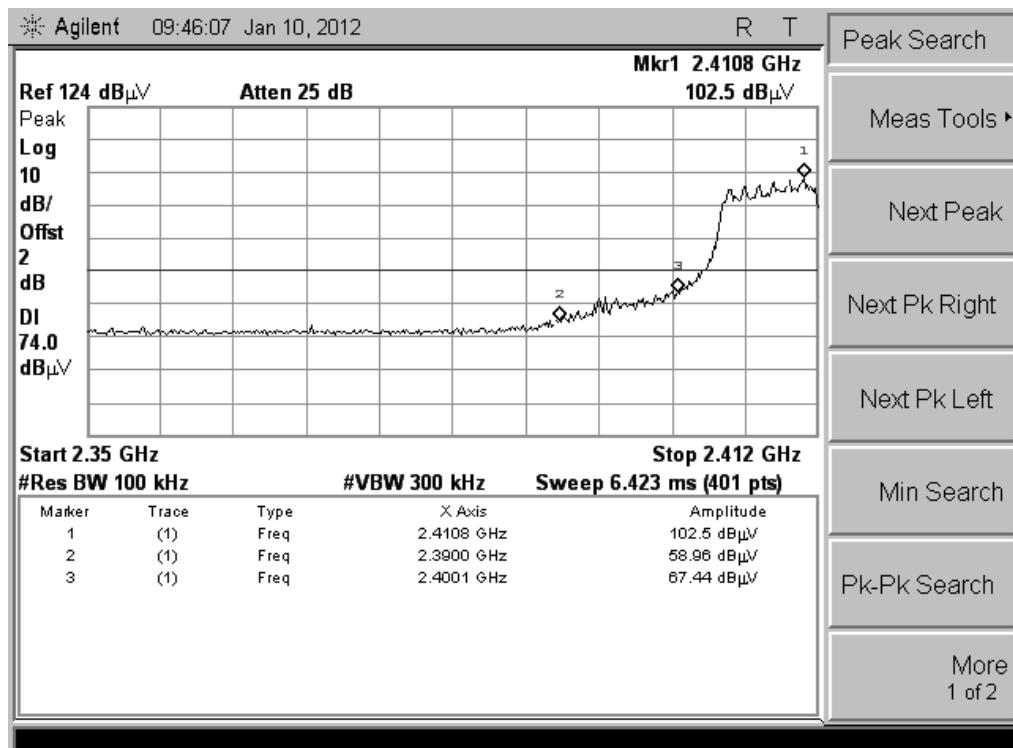


(CH High, Horizontal, Peak)

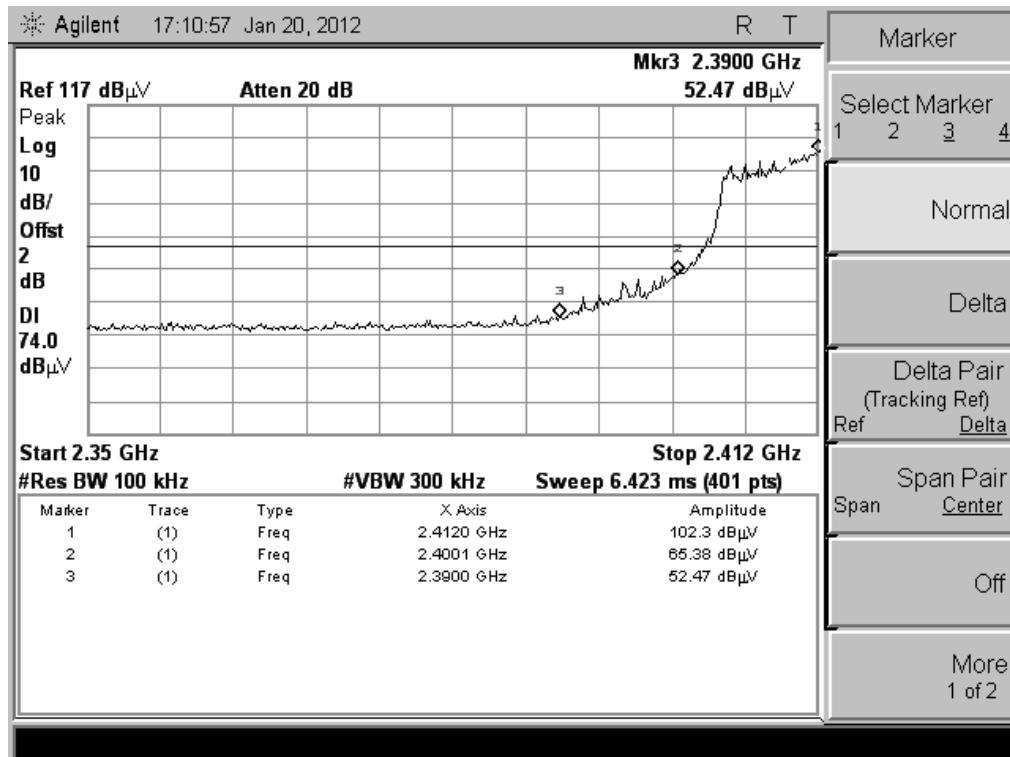
### 5.4.3.2 802.11g Test Mode

Test Mode		Channel Marked Frequency	Limit (dBuv/m)	Test Result Highest Emission (dBuv/m)			
				Vertical		Horizontal	
				Peak	Average	Peak	Average
WIFI	Low Channel	2390MHz	74(Peak) 54(Average)	52.47	37.85	58.96	45.16
		2400MHz		65.38	46.82	67.44	48.51
	High Channel	2483.5MHz		55.23	34.87	62.09	41.46
		2500MHz		55.22	33.69	49.16	30.14

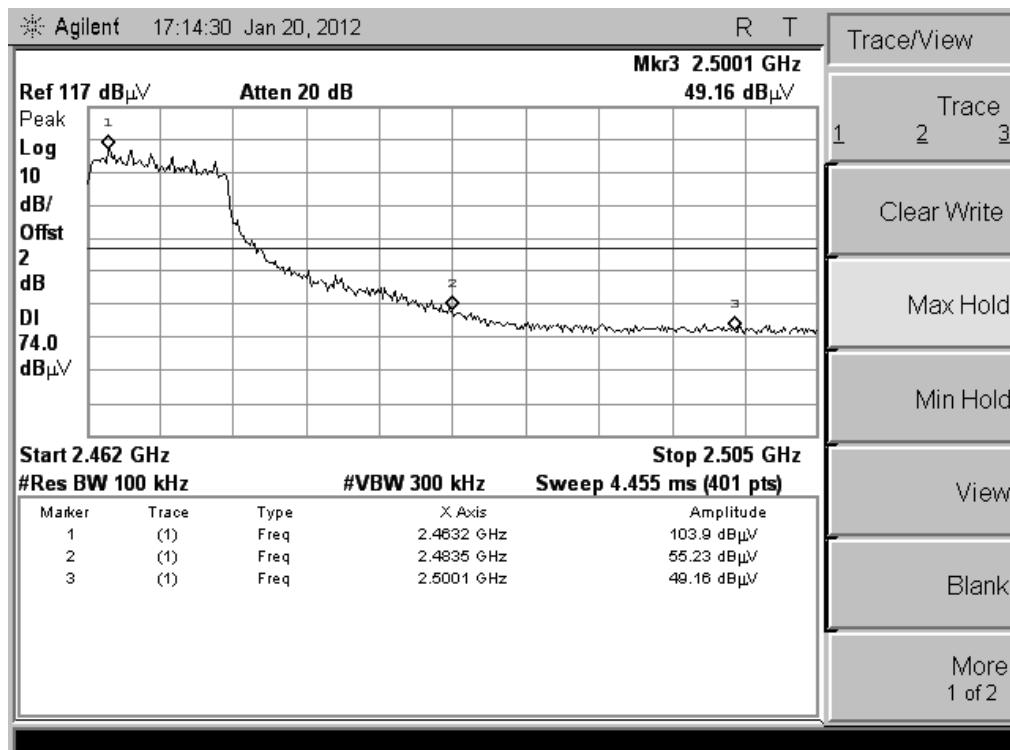
#### Test Plot:



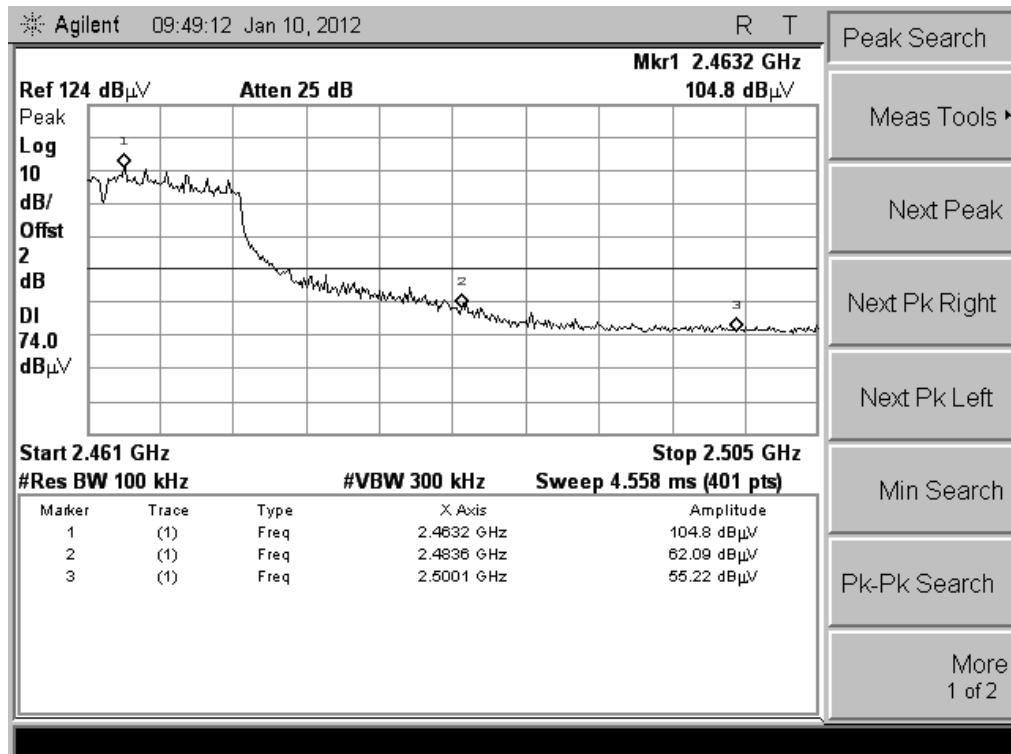
(CH Low, Horizontal, Peak )



(CH Low, Vertical, Peak)



(CH High, Horizontal, Peak)

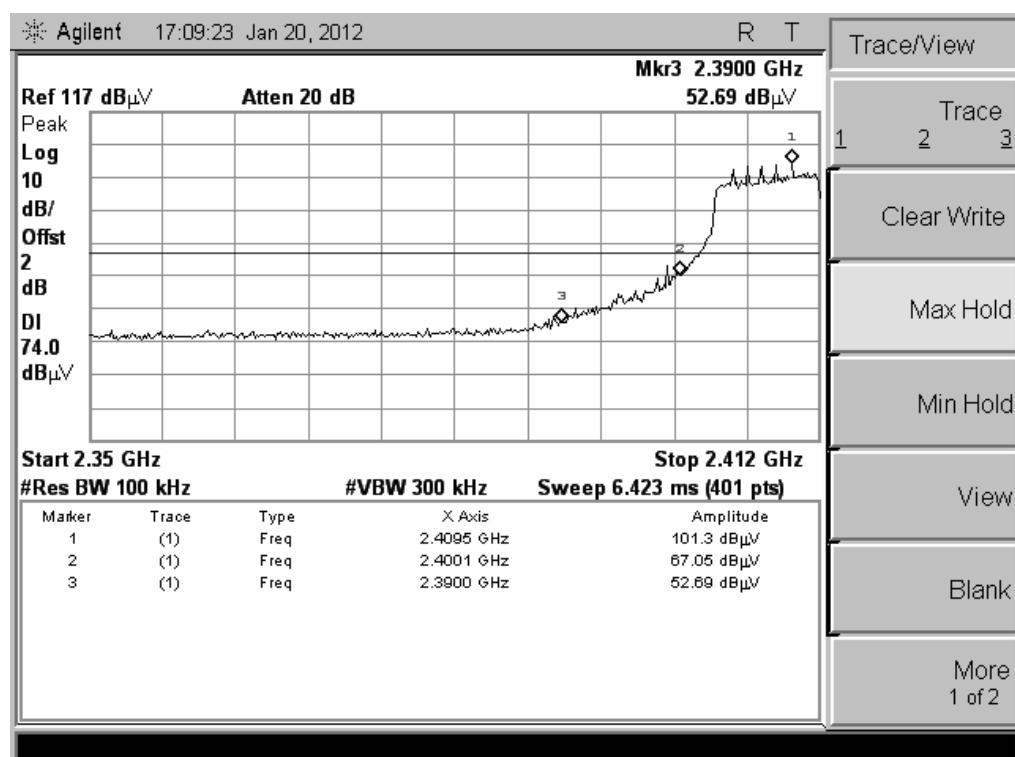
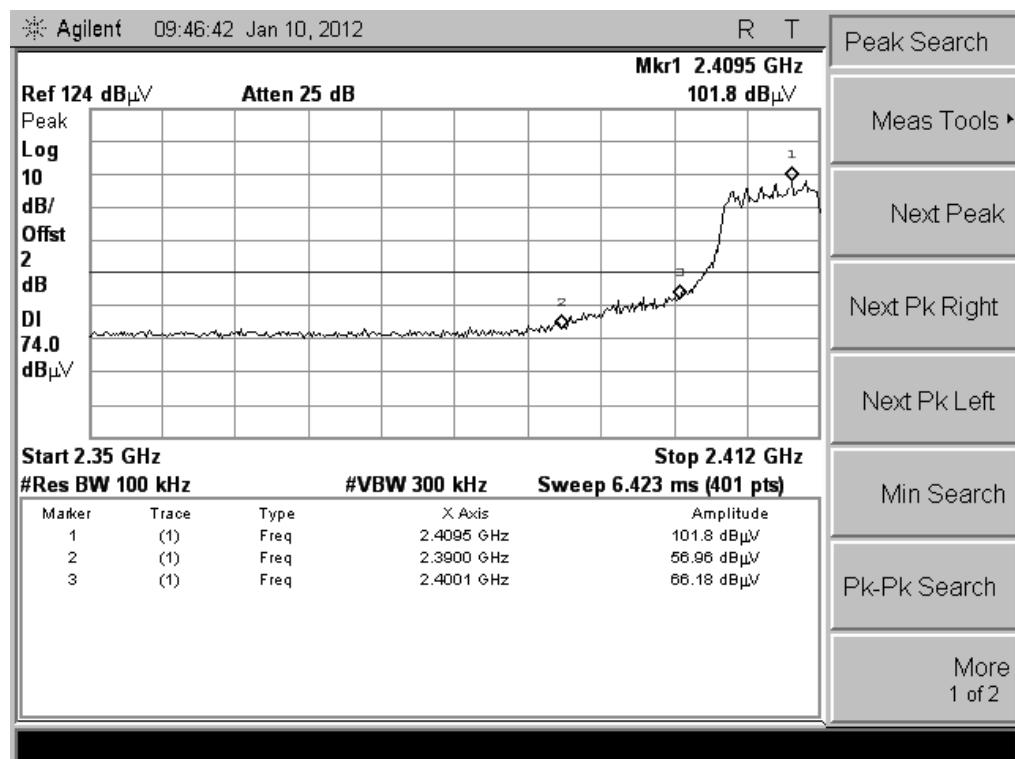


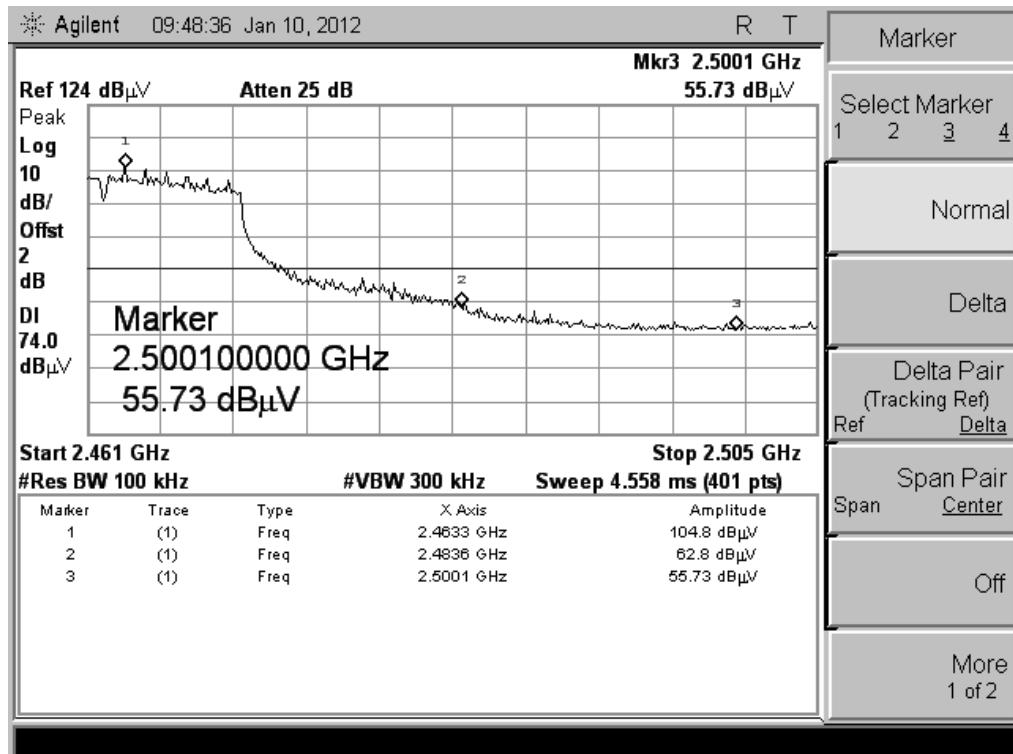
(CH High, Vertical, Peak)

#### 5.4.3.3 802.11n Test Mode

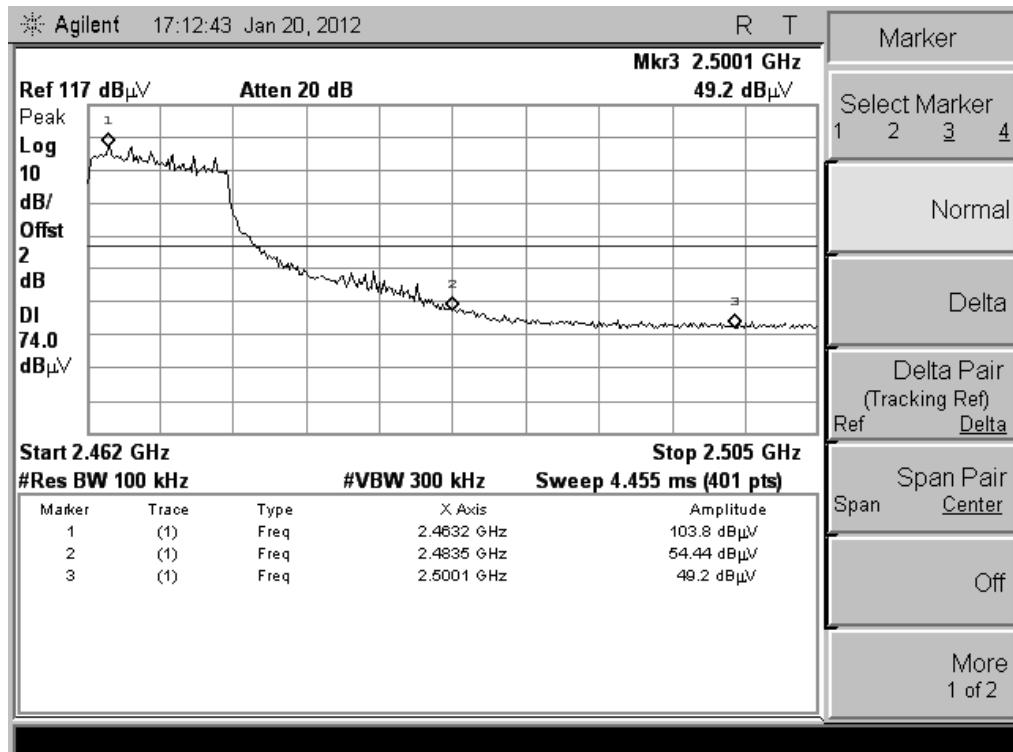
Test Mode		Channel Marked Frequency	Limit (dB $\mu$ V/m)	Test Result Highest Emission (dB $\mu$ V/m)			
				Vertical		Horizontal	
				Peak	Average	Peak	Average
WIFI	Low Channel	2390MHz	74(Peak) 54(Average)	52.69	32.12	56.96	38.21
		2400MHz		67.05	46.13	66.18	45.23
	High Channel	2483.5MHz		54.44	34.86	62.80	42.79
		2500MHz		49.20	37.20	55.73	38.68

## Test Plot:





(CH High, Horizontal, Peak )



(CH High, Vertical, Peak)

## 5.5 Power Spectral Density (PSD)

### 5.5.1 Definition

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

### 5.5.2 Test Description

See section 5.1.2 of this report.

### 5.5.3 Test Result

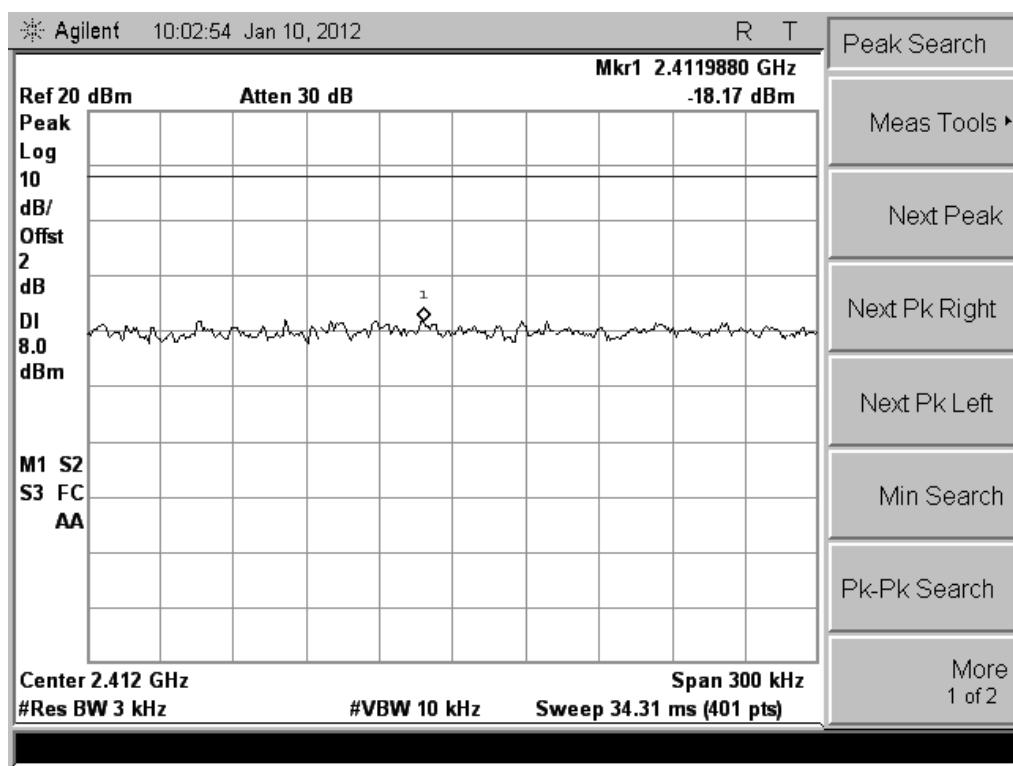
The lowest, middle and highest channels are tested to verify the power spectral density.

#### 5.5.3.1 802.11b Test Mode

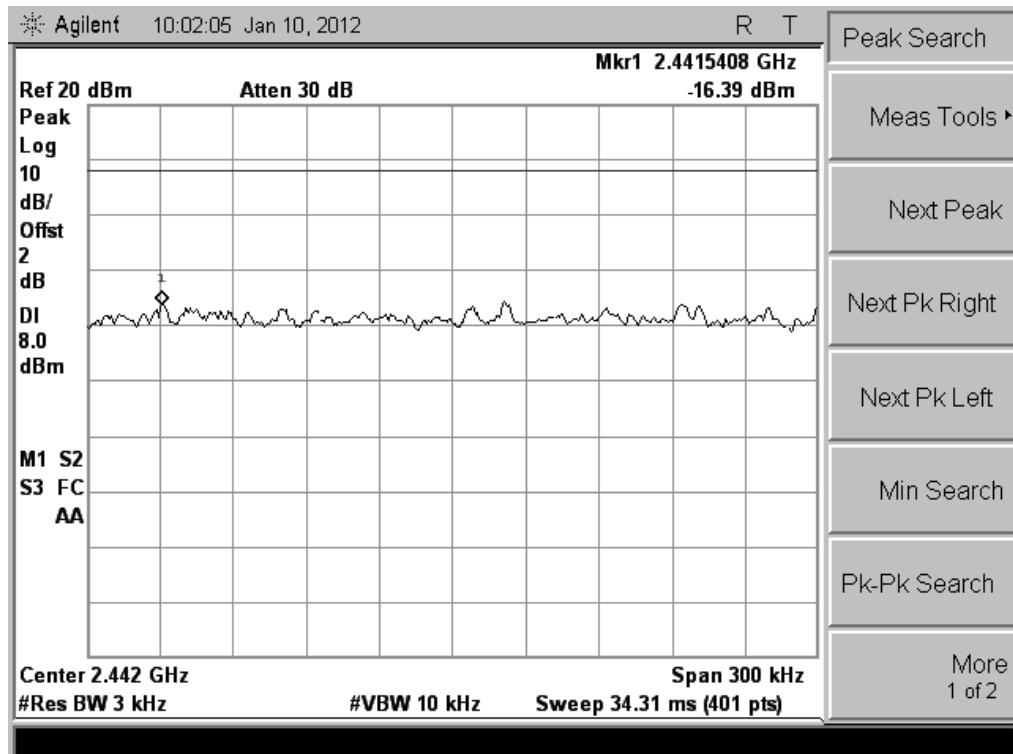
##### A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-18.17	≤8	PASS
7	2442	-16.39	≤8	PASS
11	2462	-13.59	≤8	PASS

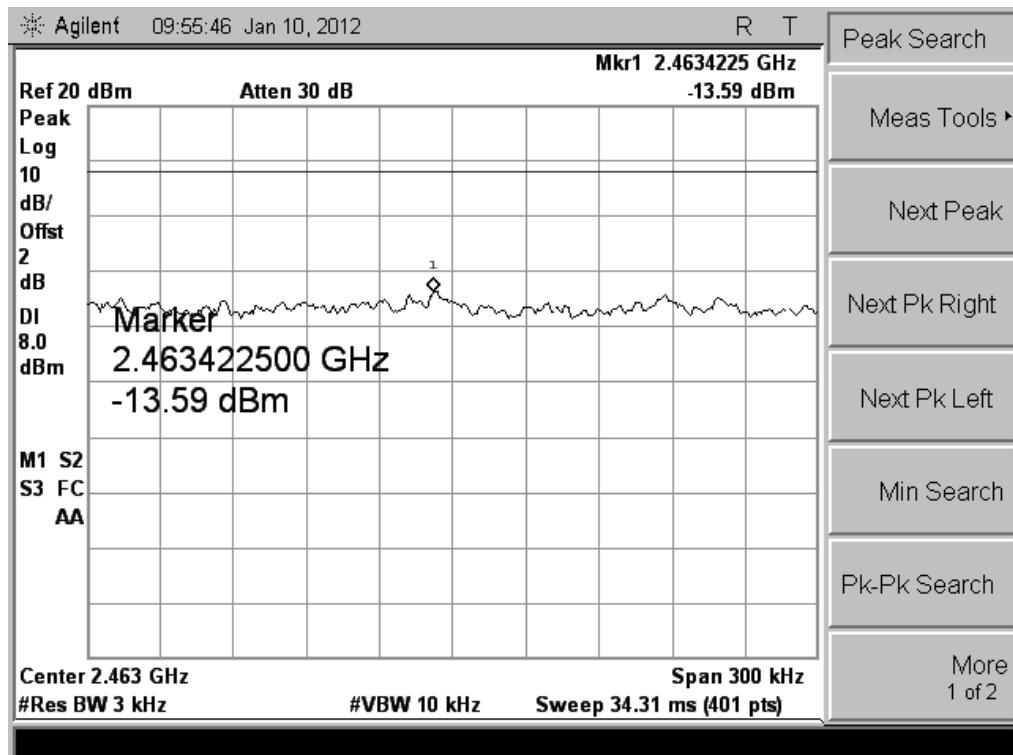
##### B. Test Plot:



(CH Low)



(CH Mid)



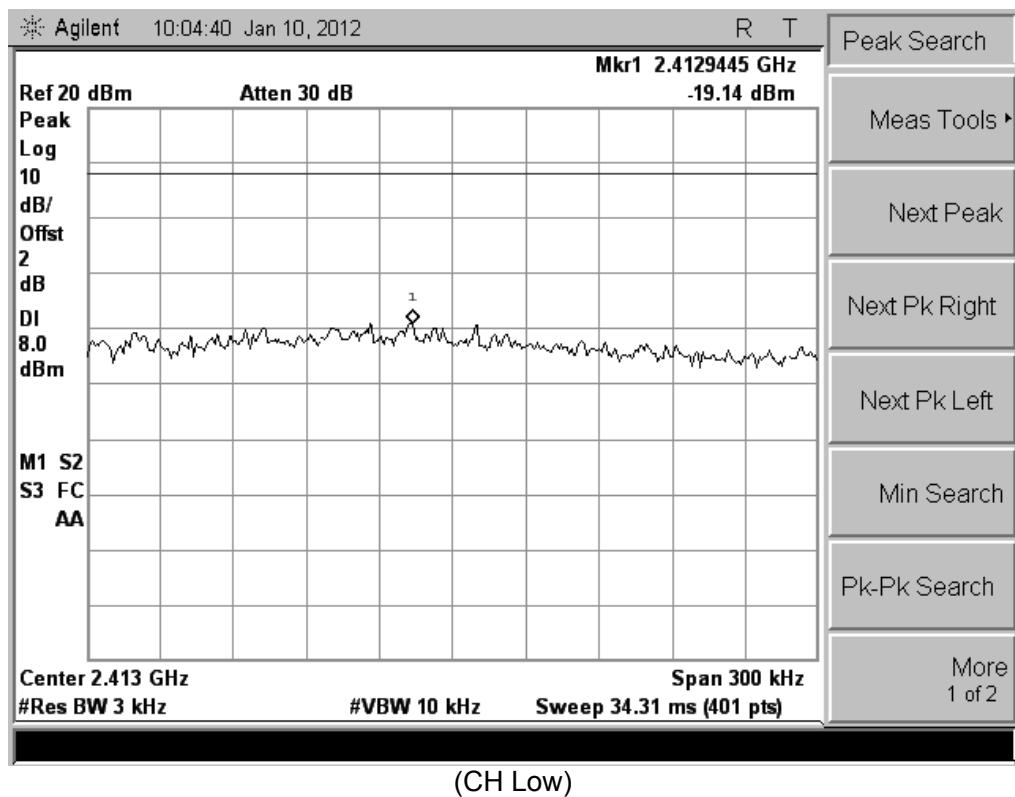
(CH High)

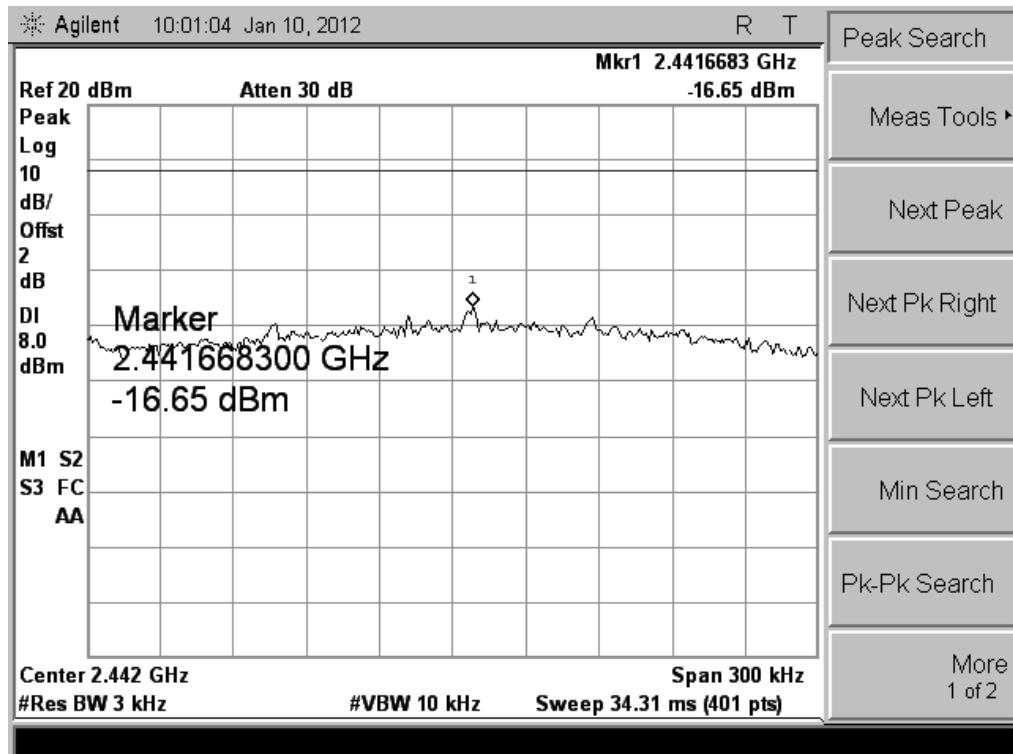
### 5.5.3.2 802.11g Test Mode

#### A. Test Verdict:

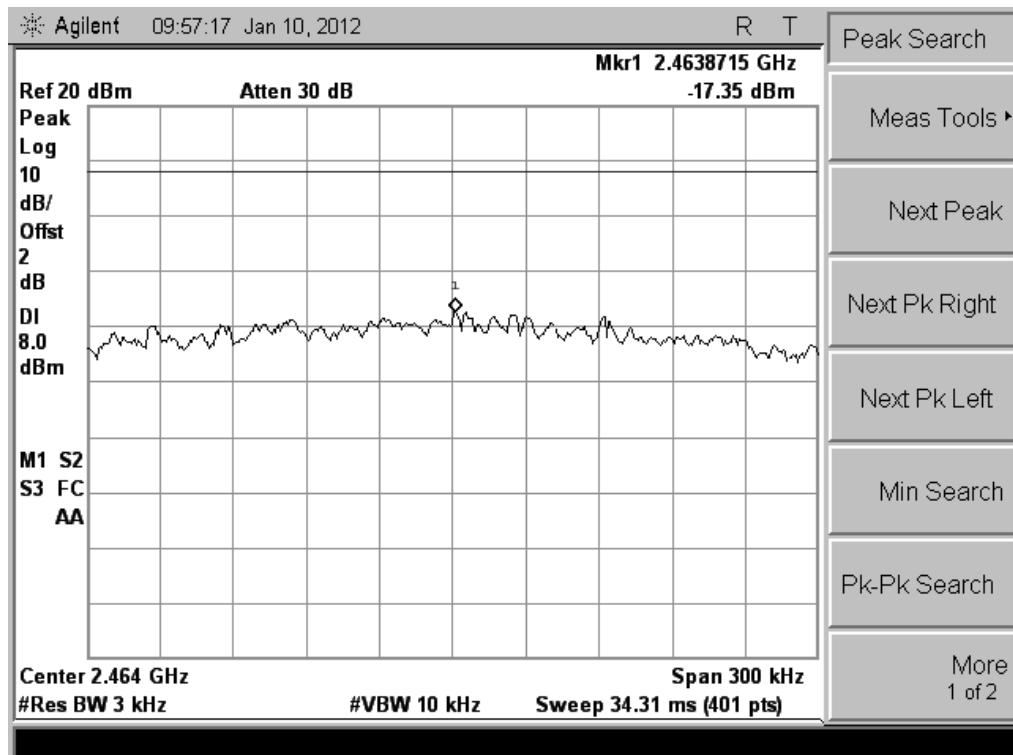
Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-19.14	≤8	PASS
7	2442	-16.65	≤8	PASS
11	2462	-17.35	≤8	PASS

#### B. Test Plot:





(CH Mid)



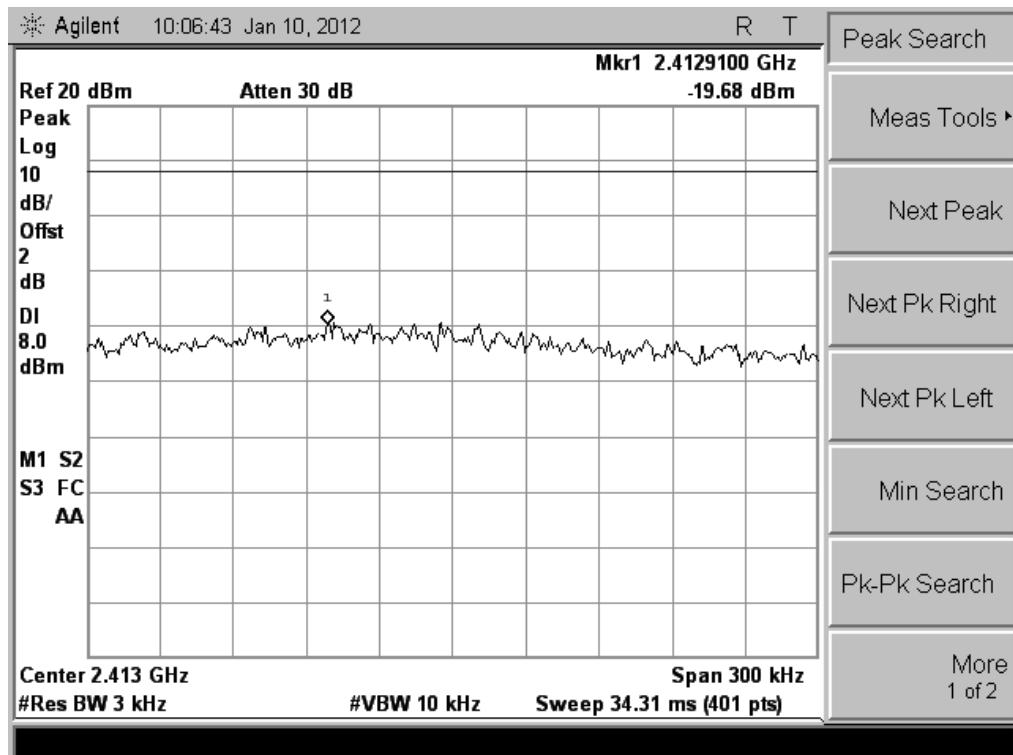
(CH High)

### 5.5.3.3 802.11n Test Mode

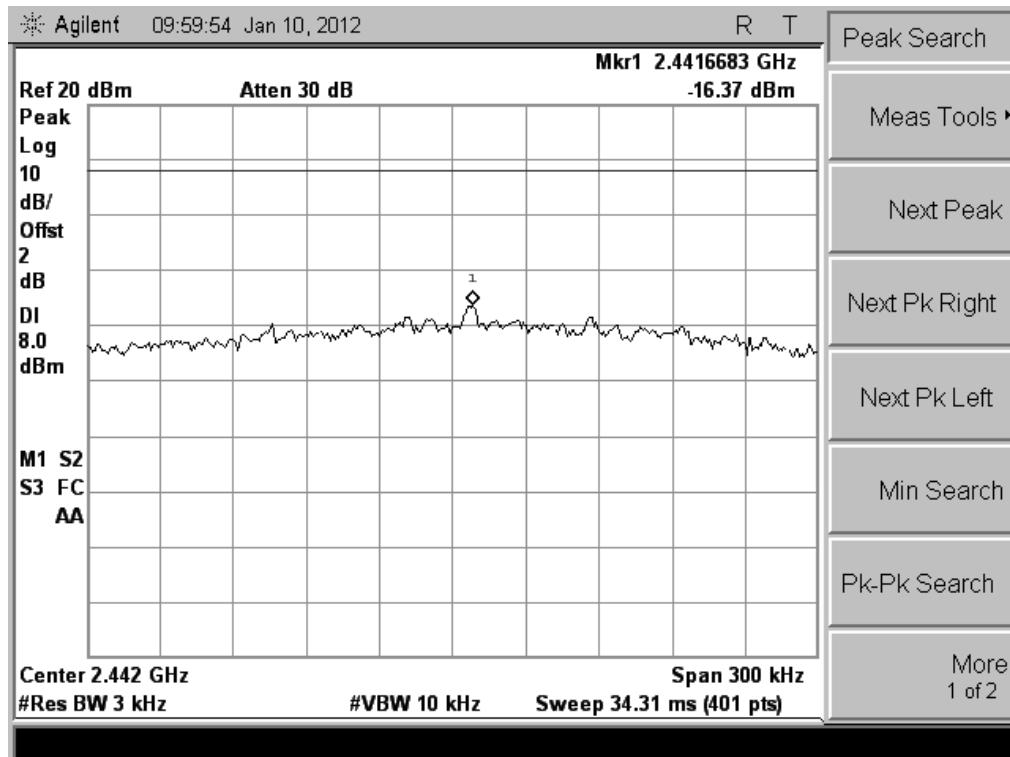
#### A. Test Verdict:

Channel	Frequency (MHz)	PSD (dBm)	Limits(dBm)	Result
1	2412	-19.68	≤8	PASS
7	2442	-16.37	≤8	PASS
11	2462	-17.51	≤8	PASS

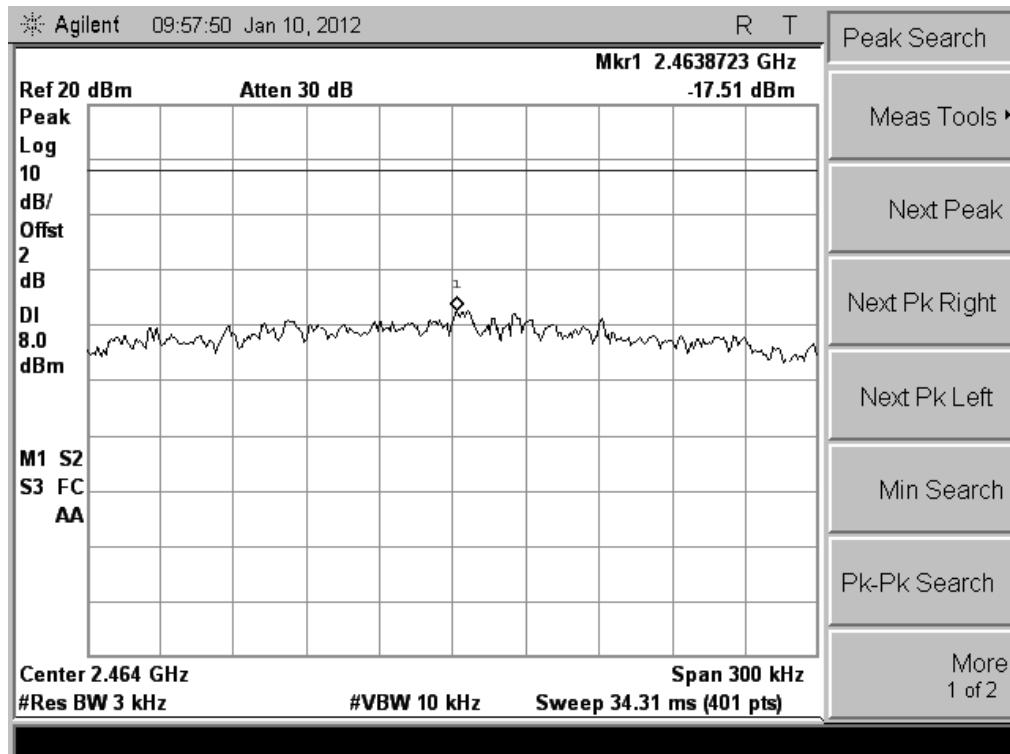
#### B. Test Plot:



(CH Low)



(CH Mid)



(CH High)

## 5.6 Conducted Emission

### 5.6.1 Definition

According to FCC section 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 or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN).

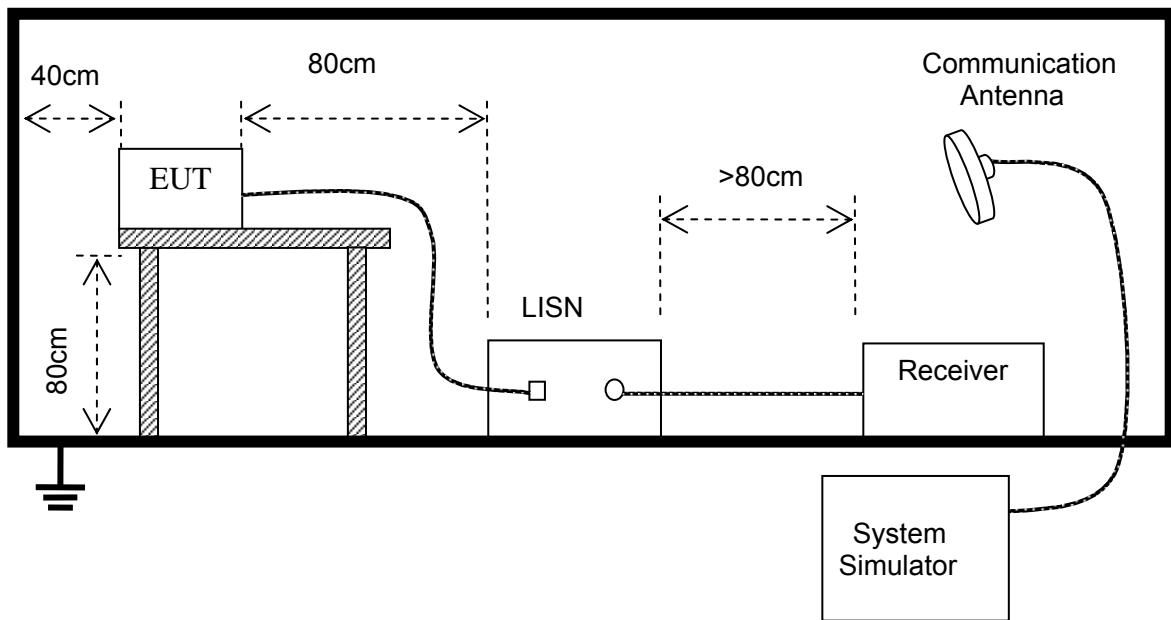
Frequency	Maximum RF Line Voltage	
	Q.P. (dBuV)	Average (dBuV)
150kHz-500kHz	66-56	56-46
500kHz-5MHz	56	46
5MHz-30MHz	60	50

**Note:**

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

## 5.6.2 Test Description

The EUT is powered by the Battery charged with the AC Adapter which is powered by 120V, 60Hz AC mains supply. The path loss as the factor is calibrated to correct the reading. During the measurement, the EUT is activated and is set to operate at maximum power.



### 5.6.3 Test Result

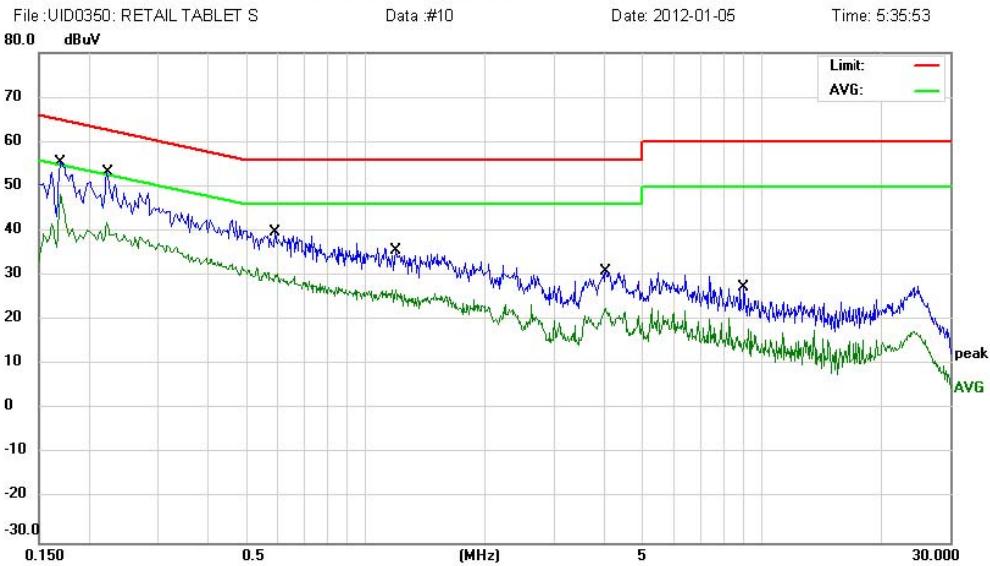
A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

#### Conducted Emission Measurement



Site: site MOST 3M  
Limit: FCC Part15 B Class B QP  
EUT: Retail Tablet  
M/N: UID0350: RETAIL TABLET S  
Mode: WIFI Mode  
Note:

Phase: **N**  
Power: DC 9V Adapter AC 120V/60Hz

Temperature: 26  
Humidity: 60 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over Detector	Comment
1	*	0.1700	45.27	10.20	55.47	64.96	-9.49	QP
2		0.2220	41.32	11.85	53.17	62.74	-9.57	QP
3		0.5940	29.76	10.00	39.76	56.00	-16.24	QP
4		1.1939	25.66	9.81	35.47	56.00	-20.53	QP
5		4.0619	19.95	11.06	31.01	56.00	-24.99	QP
6		9.0499	17.74	9.57	27.31	60.00	-32.69	QP

\*:Maximum data    x:Over limit    !:over margin

Engineer Signature: Rex



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
 Guangdong, China  
 Tel: 0755-86170306 Fax: 0755-86170310

#### Conducted Emission Measurement

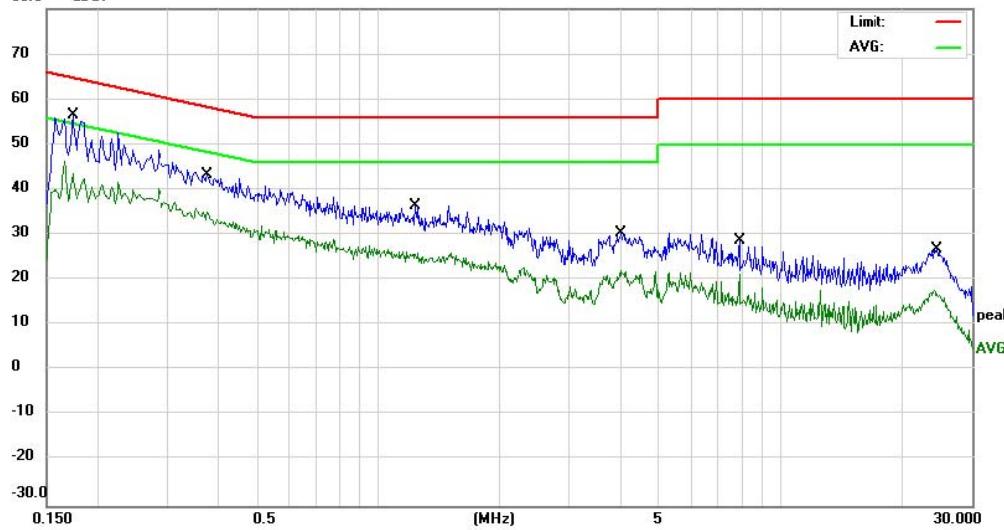
File: UID0350: RETAIL TABLET S

Data #: 11

Date: 2012-01-05

Time: 5:36:52

80.0 dBuV



Site: site MOST 3M

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

EUT: Retail Tablet

M/N: UID0350: RETAIL TABLET S

Mode: WIFI Mode

Note:

No.	Mk.	Reading	Correct	Measure-	Limit	Over		
		Freq.	Level	Factor	dBuV	dB	Detector	Comment
1	*	0.1740	45.98	10.44	56.42	64.76	-8.34	QP
2		0.3780	32.39	10.81	43.20	58.32	-15.12	QP
3		1.2379	26.67	9.76	36.43	56.00	-19.57	QP
4		4.0379	19.34	11.04	30.38	56.00	-25.62	QP
5		7.9139	18.54	10.25	28.79	60.00	-31.21	QP
6		24.5340	17.73	9.00	26.73	60.00	-33.27	QP

\*:Maximum data    x:Over limit    !:over margin

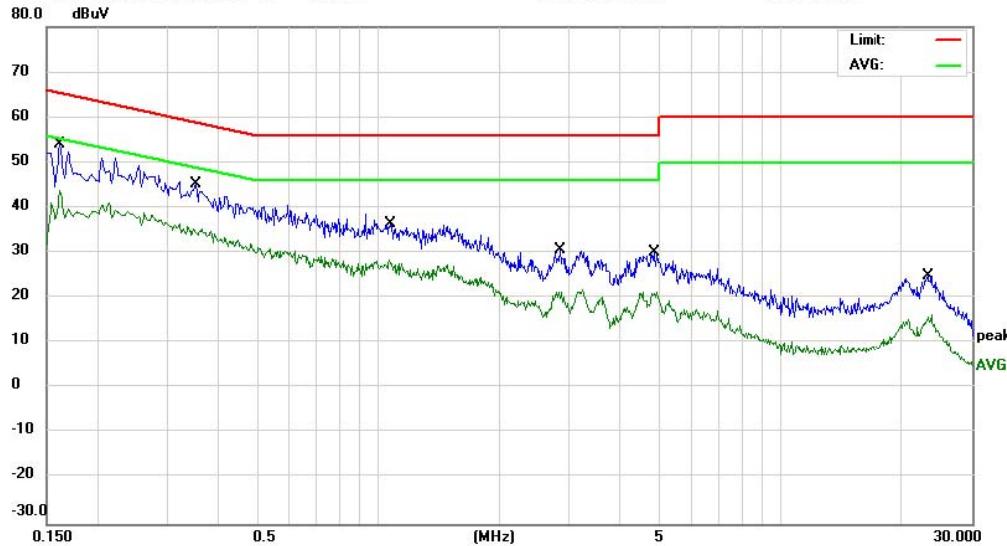
Engineer Signature: Rex



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
 Guangdong, China  
 Tel: 0755-86170306 Fax: 0755-86170310

#### Conducted Emission Measurement

File: UID0354: RETAIL TABLET M Data: #5 Date: 2012-01-05 Time: 6:03:45



Site: site MOST 3M Phase: **N** Temperature: 26

Limit: FCC Part15 B Class B QP Power: DC 9V Adapter AC 120V/60Hz Humidity: 60 %

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dB			
1	*	0.1620	44.42	9.72	54.14	65.36	-11.22	QP	
2		0.3540	34.35	10.97	45.32	58.87	-13.55	QP	
3		1.0740	26.60	9.93	36.53	56.00	-19.47	QP	
4		2.8420	20.74	9.84	30.58	56.00	-25.42	QP	
5		4.8659	18.31	11.87	30.18	56.00	-25.82	QP	
6		23.3779	15.84	9.00	24.84	60.00	-35.16	QP	

\*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
 Guangdong, China  
 Tel: 0755-86170306 Fax: 0755-86170310

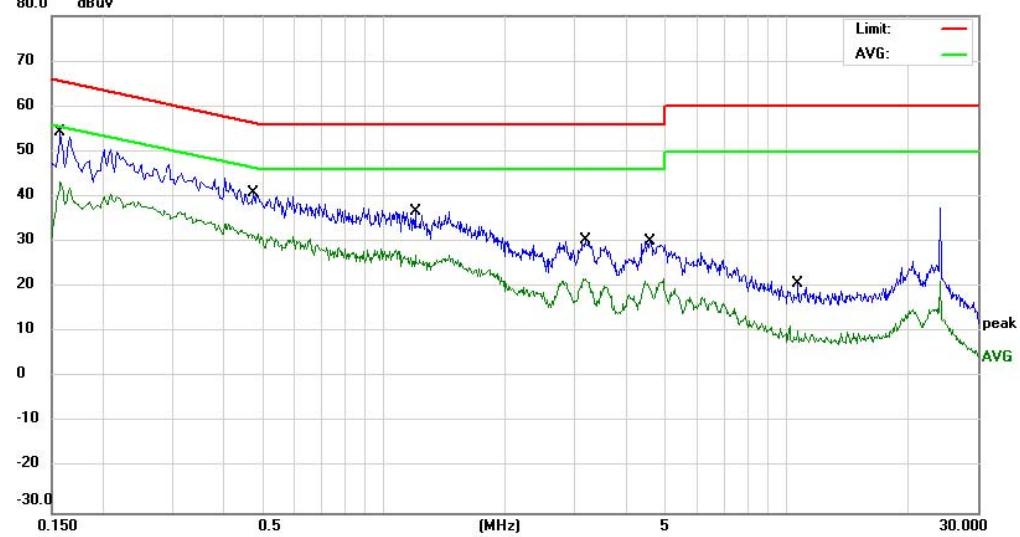
#### Conducted Emission Measurement

File : UID0354: RETAIL TABLET M  
 80.0 dBuV

Data #: 6

Date: 2012-01-05

Time: 6:05:13



Site: site MOST 3M

Phase: **L1**

Temperature: 26

Limit: FCC Part15 B Class B QP

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 60 %

EUT: Retail Tablet

M/N: UID0354: RETAIL TABLET M

Mode: WIFI Mode

Note:

No.	Mk.	Freq. MHz	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level dBuV	Factor dB	ment dBuV				
1	*	0.1580	44.70	9.49	54.19	65.56	-11.37	QP	
2		0.4780	30.76	10.15	40.91	56.37	-15.46	QP	
3		1.1980	26.93	9.80	36.73	56.00	-19.27	QP	
4		3.1740	20.17	10.17	30.34	56.00	-25.66	QP	
5		4.6099	18.48	11.61	30.09	56.00	-25.91	QP	
6		10.6939	11.76	9.00	20.76	60.00	-39.24	QP	

\*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

## 5.7 Radiated Emission

### 5.7.1 Definition

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

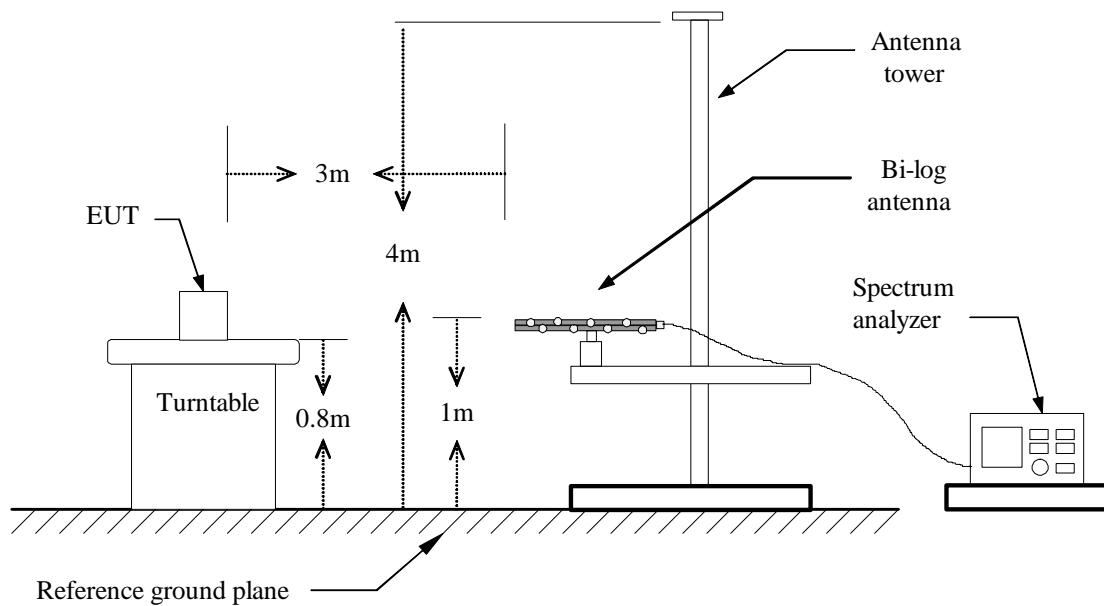
According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu$ 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

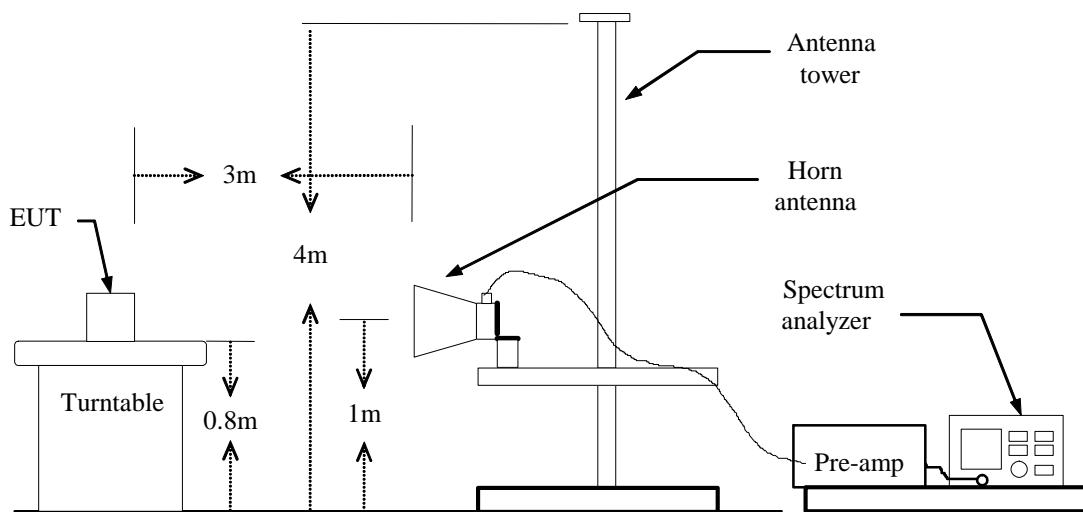
As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured 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.

### 5.7.2 Test Description

#### Blow 1GHz:



#### Above 1GHz:



## A. Test procedures

### 5.7.3 Test Result

The Wifi model was carried out for 802.11b/g/n modulation types, 802.11b High channel modulation type was the worst case condition, The test data was shown on the summary data page.

**Below 1 GHz**

Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

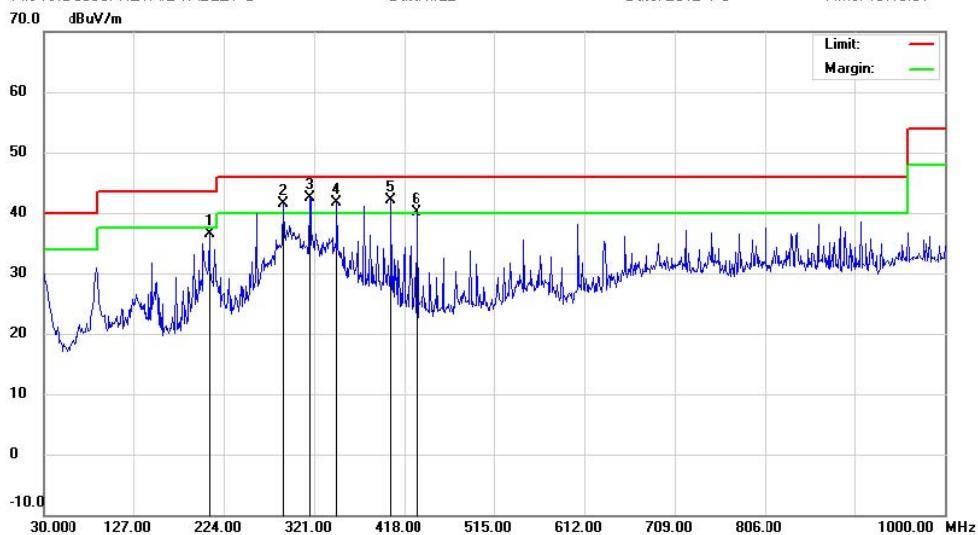
**Radiated Emission Measurement**

File: UID0350: RETAIL TABLET S

Data: #22

Date: 2012-1-5

Time: 15:48:31



Site: site MOST 3M

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15 B 3M Radiation

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Retail Tablet

Distance:

M/N: UID0350: RETAIL TABLET S

Mode: WiFi Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
								MHz	dBuV	
1		208.4800	20.29	16.28	36.57	43.50	-6.93	QP		
2	I	288.0200	22.05	19.42	41.47	46.00	-4.53	QP		
3	*	316.1500	25.75	16.85	42.60	46.00	-3.40	QP		
4	I	345.2500	24.35	17.42	41.77	46.00	-4.23	QP		
5	I	403.4500	23.38	18.77	42.15	46.00	-3.85	QP		
6	I	431.5800	19.72	20.32	40.04	46.00	-5.96	QP		

\*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

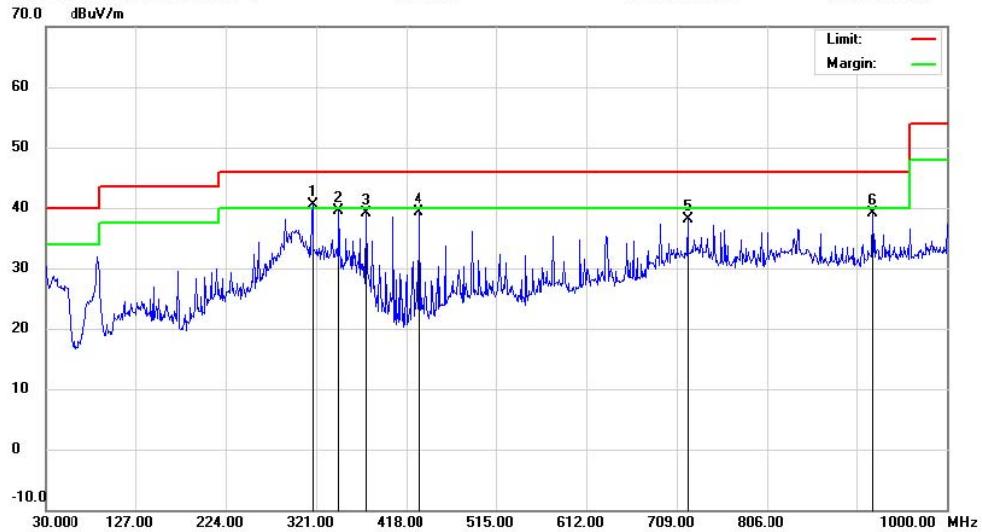
### Radiated Emission Measurement

File: UID0350: RETAIL TABLET S

Data: #23

Date: 2012-1-5

Time: 15:52:57



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15 B 3M Radiation

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Retail Tablet

Distance:

M/N: UID0350: RETAIL TABLET S

Mode: WiFi Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	Comment
								MHz	dBuV	
dB		dBuV/m				dBuV/m			dB	
1	*	317.1200	23.56	16.88	40.44	46.00	-5.56	QP		
2		345.2500	22.13	17.42	39.55	46.00	-6.45	QP		
3		374.3500	20.81	18.24	39.05	46.00	-6.95	QP		
4		431.5800	18.90	20.32	39.22	46.00	-6.78	QP		
5		720.6399	13.32	24.71	38.03	46.00	-7.97	QP		
6		920.4600	11.41	27.67	39.08	46.00	-6.92	QP		

\*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

#### Radiated Emission Measurement

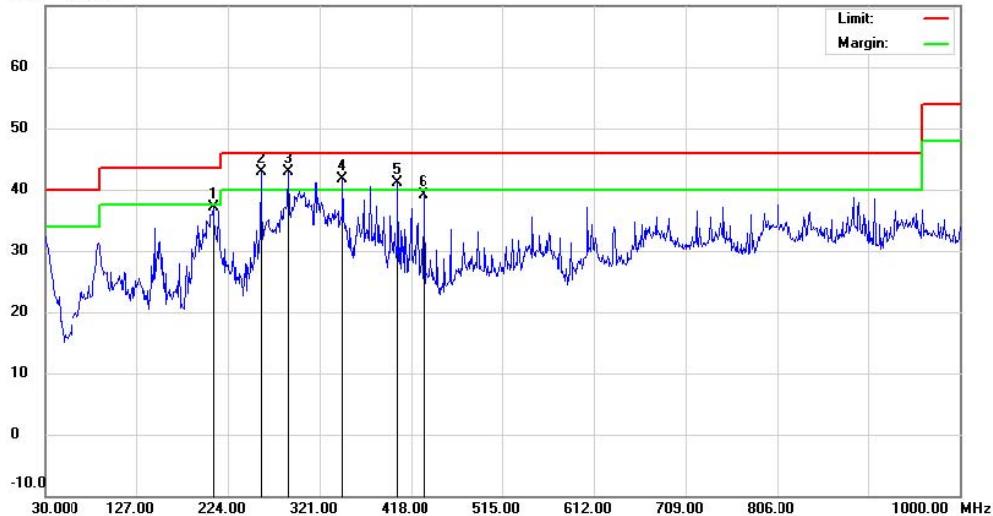
File : UID0354: RETAIL TABLET M

Data : #21

Date: 2012-1-5

Time: 8:38:14

70.0 dBuV/m



Site site MOST 3M

Polarization: **Horizontal**

Temperature: 26

Limit: FCC Part 15 B 3M Radiation

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Retail Tablet

Distance:

M/N: UID0354: RETAIL TABLET M

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Antenna	Table	Comment
			Level	Factor	ment			Height	Degree	
		MHz	dBuV	dB	dBuV/m	dB	Detector	cm	degree	
1		208.4800	20.79	16.28	37.07	43.50	-6.43	QP		
2	!	258.9200	25.33	17.56	42.89	46.00	-3.11	QP		
3	*	288.0200	23.55	19.42	42.97	46.00	-3.03	QP		
4	!	345.2500	24.35	17.42	41.77	46.00	-4.23	QP		
5	!	403.4500	22.38	18.77	41.15	46.00	-4.85	QP		
6		431.5800	18.72	20.32	39.04	46.00	-6.96	QP		

\*:Maximum data    x:Over limit    !:over margin

Engineer Signature: Allen



Address: No.5, Langshan 2nd Rd., North Hi-Tech Industrial park  
Guangdong, China  
Tel: 0755-86170306 Fax: 0755-86170310

#### Radiated Emission Measurement

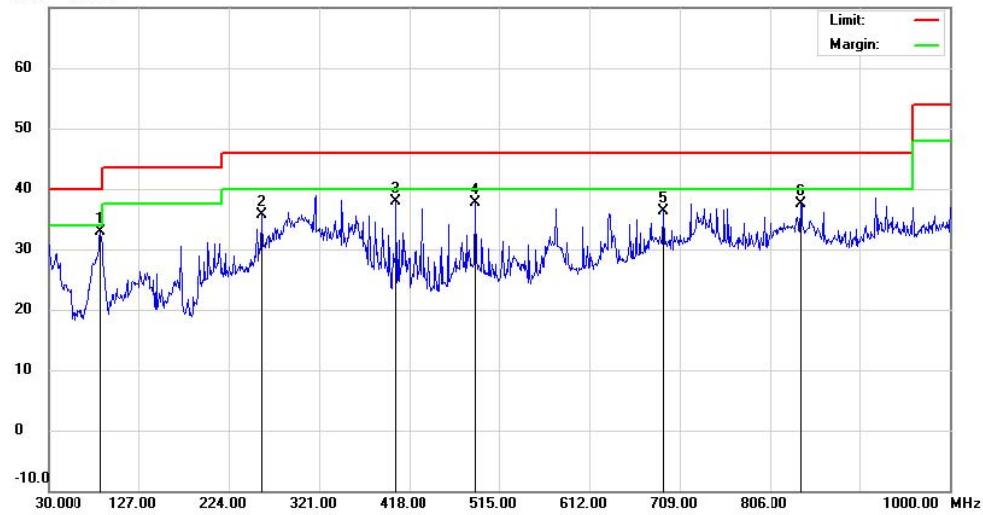
File : UID0354: RETAIL TABLET M

Data : #22

Date: 2012-1-5

Time: 8:42:51

70.0 dBuV/m



Site: site MOST 3M

Polarization: **Vertical**

Temperature: 26

Limit: FCC Part 15 B 3M Radiation

Power: DC 9V Adapter AC 120V/60Hz

Humidity: 61 %

EUT: Retail Tablet

Distance:

M/N: UID0354: RETAIL TABLET M

Mode: WIFI Mode

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna	Table	
								Height	Degree	
MHz		dBuV		dB	dBuV/m	dBuV/m	dB	Detector	cm	Comment
1	*	86.2600	21.50	11.33	32.83	40.00	-7.17	QP		
2		258.9200	18.15	17.56	35.71	46.00	-10.29	QP		
3		403.4500	19.16	18.77	37.93	46.00	-8.07	QP		
4		489.7800	15.97	21.70	37.67	46.00	-8.33	QP		
5		691.5400	11.85	24.45	36.30	46.00	-9.70	QP		
6		839.9500	10.38	27.10	37.48	46.00	-8.52	QP		

\*:Maximum data x:Over limit !:over margin

Engineer Signature: Allen

**Above 1 GHz**

**Operation Mode:** TX/ IEEE 802.11b/CH Low      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	AV Margin (dB)
					Peak (dBuV/m)	AV (dBuV/m)			
4824.0	H	33.28	14.02	23.54	56.82	37.56	74.00	54.00	-16.44
N/A	H								
<hr/>									
4824.0	V	32.71	13.59	23.36	56.07	36.95	74.00	54.00	-17.05
N/A	V								
<hr/>									

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11b/CH Mid      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak	AV	Ant. / CL CF	Actual Fs		Peak	AV	AV
		Reading (dBuV)	Reading (dBuV)		(dB)	Peak (dBuV/m)	AV (dBuV/m)	Margin (dB)	
4884.0	H	36.39	17.56	23.54	59.93	41.10	74.00	54.00	-12.90
N/A	H								
<hr/>									
4884.0	V	36.25	16.84	23.36	59.61	40.20	74.00	54.00	-13.80
N/A	V								
<hr/>									

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11b/CH High      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak (dBuV)	AV (dBuV)	Ant. / CL CF	Actual Fs		Peak	AV	AV
							Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4924.0	H	32.70	11.67	23.54	56.24 (dBuV/m)	34.21 (dBuV/m)	74.00	54.00	-19.79
N/A	H								
4924.0	V	32.82	12.01	23.36	55.18 (dBuV/m)	35.37 (dBuV/m)	74.00	54.00	-18.63
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11g/CH Low      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak (dBuV)	AV (dBuV)	Ant. / CL CF	Actual Fs		Peak	AV	AV
							Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4824.0	H	32.95	13.78	23.78	56.73	36.56	74.00	54.00	-17.44
N/A	H								
4824.0	V	31.37	10.64	24.01	55.38	34.65	74.00	54.00	-19.35
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11g/CH Mid      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak (dBuV)	AV (dBuV)	Ant. / CL CF	Actual Fs		Peak	AV	AV
							Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4884.0	H	32.84	13.54	23.78	56.62	37.32	74.00	54.00	-16.68
N/A	H								
4884.0	V	31.97	10.20	24.01	55.98	34.21	74.00	54.00	-19.79
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11g/CH High      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak (dBuV)	AV (dBuV)	Ant. / CL CF	Actual Fs		Peak	AV	AV
							Limit (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4924.0	H	32.41	11.58	23.78	56.19	35.36	74.00	54.00	-18.64
N/A	H								
4924.0	V	31.58	10.42	24.01	55.59	34.43	74.00	54.00	-19.57
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11n/CH Low      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak (dBuV)	AV (dBuV)	Ant. / CL CF	Actual Fs		Peak	AV	AV
							Limit	Limit	Margin
4824.0	H	30.84	10.23	24.02	54.86	34.25	74.00	54.00	-19.75
N/A	H								
4824.0	V	31.06	11.42	24.68	55.74	36.10	74.00	54.00	-17.90
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11n/CH Mid      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak Reading (dBuV)	AV Reading (dBuV)	Ant. / CL CF (dB)	Actual Fs		Peak	AV	AV
							Limit	Limit	Margin
					Peak (dBuV/m)	AV (dBuV/m)			
4884.0	H	31.59	11.09	24.02	55.61	35.11	74.00	54.00	-18.89
N/A	H								
4884.0	V	30.52	10.42	24.68	55.20	35.10	74.00	54.00	-18.90
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Operation Mode:** TX/ IEEE 802.11n/CH High      **Test Date:** Jan. 12, 2012  
**Temperature:** 20°C      **Tested by:** Habby Guo  
**Humidity:** 70 % RH      **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant. Pol H/V	Peak	AV	Ant. / CL CF (dB)	Actual Fs		Peak	AV	AV
		Reading (dBuV)	Reading (dBuV)				Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)
4924.0	H	30.70	11.23	24.02	54.72	35.25	74.00	54.00	-18.75
N/A	H								
4924.0	V	29.41	10.20	24.68	54.09	34.88	74.00	54.00	-19.12
N/A	V								

**Notes:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown “ --- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

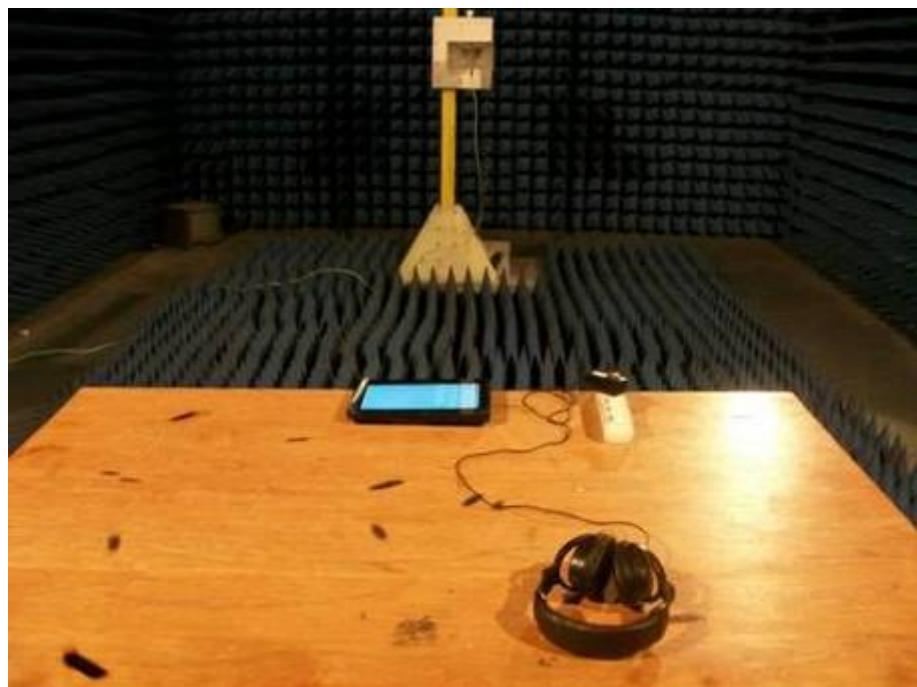
**APPENDIX 1**  
**PHOTOGRAPHS OF TEST SETUP**

CE TEST SETUP



RE TEST SETUP





CONDUCTED SPURIOUS EMISSION TEST SETUP



-----END OF REPORT-----