


FCC PART 15.247
EMI MEASUREMENT AND TEST REPORT
For

Dongguan Wo De Electronics Technology Co., Ltd.
No.45, Jingmei 168 Industrial Zone, Dongkeng Town, Dongguan City, Guangdong, China

FCC ID: PSD-WD08HD

September 11, 2012

This Report Concerns: Original Report	Equipment Type: Handwriting Tablet PC
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Test Engineer of performing the tests:	Adam Yang <i>Adam Yang</i>
Report No.:	BST20120730Y-1E-3
Receive EUT Date/Test Date:	August 31, 2012/ September 3-10, 2012
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1. GENERAL INFORMATION

1.1. Report information

1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.

1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

Test Facility -

The test site used to collect the radiated data is located on the address of

Shenzhen Certification Technology Service Co., Ltd

(FCC Registered Test Site Number: 197647) on

2F, Building B, East Area of Nanchang Second Industrial Zone, Gushu 2nd Road,

Bao'an District, shenzhen 518126, China

The Test Site is constructed and calibrated to meet the FCC requirements.

1.2. Measurement Uncertainty

Available upon request.

2. PRODUCT DESCRIPTION

2.1. EUT Description

Applicant	:	Dongguan Wo De Electronics Technology Co., Ltd.
Address	:	No.45, Jingmei 168 Industrial Zone, Dongkeng Town, Dongguan City, Guangdong, China
Manufacturer	:	Dongguan Wo De Electronics Technology Co., Ltd.
Address	:	No.45, Jingmei 168 Industrial Zone, Dongkeng Town, Dongguan City, Guangdong, China
EUT Description	:	Handwriting Tablet PC
Trade Name	:	WODE
Modulation	:	802.11b: DSSS 802.11g/n: OFDM
Wi-fi Frequency Band	:	IEEE 802.11b/g: 2412-2462MHz IEEE802.11n HT20: 2412-2462MHz IEEE802.11n HT40: 2422-2452MHz
Number of Channels	:	IEEE 802.11b/g: 11 Channels IEEE802.11n HT20: 11 Channels IEEE802.11n HT40: 7 Channels
Model Number	:	WD08HD, WD08H
Power Supply	:	DC 5V (Powered by Adapter) or DC 3.7V (Li-ion battery)
Antenna gain	:	0dBi

2.2. Block Diagram of EUT Configuration

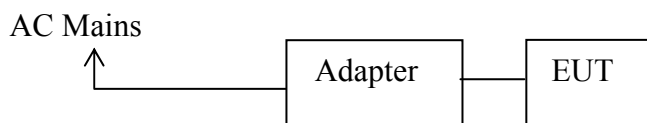


Figure 1 EUT SETUP

2.3. Support Equipment List

Table 2 Ancillary Equipment

Name	Model No	S/N	Manufacturer	Used “ ”
Adapter Input: AC 100-240V, 50/60Hz, 350mA Max. Output: DC 5V, 2.0A	EP13F-050200 WUCA	--	EVEREST	

2.4. Test Conditions

Temperature: 23~25

Relative Humidity: 50~63 %

After the preliminary test, we found to emit the worst emissions and therefore had been tested under operating condition.

IEEE 802.11b:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 1Mbps data rate were chosen for full testing.

IEEE 802.11g:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT20:

Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6.5Mbps data rate were chosen for full testing.

IEEE 802.11n HT40:

Channel Low (2422MHz), Channel Mid 2437MHz) and Channel High (2452MHz) with 13Mbps data rate were chosen for full testing.

3. FCC ID LABEL

FCC ID: PSD-WD08HD

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and**
- 2. This device must accept any interference received, including interference that may cause undesired operation.**

Label Location on EUT

EUT View/ FCC ID Label Location



4. TEST RESULTS SUMMARY

FCC 15 Subpart C, Paragraph 15.247

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247 (i) , §1.1307 (b) (1), §2.1093	RF Exposure	PASS
§15.203	Antenna Requirement	PASS
§15.207 (a)	Conducted Emissions	PASS
§15.247(d)	Spurious Emissions at Antenna Port	PASS
§15.205	Restricted Bands	PASS
§15.209, §15.205, §15.247(d)	Spurious Emissions	PASS
§15.247 (a)(2)	6 dB Bandwidth	PASS
§15.247(b)(3)	Maximum Peak Output Power	PASS
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	PASS
§15.247(e)	Power Spectral Density	PASS

Statement: The EUT was setup according to ANSI C63.4-2003 and tested according to DTS test procedure of March 23, 2005 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Modifications

No modification was made.

5. TEST EQUIPMENT USED

Equipment/Facilities	Manufacturer	Model	Serial no.	Date of Cal.	Cal. Interval
3m Semi-Anechoic Chamber	Changzhou Chengyu	EC3048	N/A	May 5, 2012	1 Year
Broadband antenna	SCHWARZBECK	VULB 9168	VULB9168-438	Aug. 14, 2012	1 Year
Horn antenna	R&S	HF906	10027	Aug. 14, 2012	1 Year
ETS Horn Antenna	ETS	3160	SEL0076	May 8, 2012	1 Year
Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	Apr. 6, 2012	1 Year
Spectrum analyzer	Agilent	E4443A	MY46185649	Apr. 6, 2012	1 Year
Spectrum analyzer	Agilent	E4440A	MY46187335	Apr. 6, 2012	1 Year
Test receiver	R&S	ESCI	100492	Apr. 6, 2012	1 Year
Test receiver	R&S	ESCI	101202	Apr. 6, 2012	1 Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126466	Apr. 6, 2012	1 Year
L.I.S.N.	SCHWARZBECK	NSLK8126	8126487	Apr. 6, 2012	1 Year
Cable	Resenberger	N/A	NO.1	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Apr. 6, 2012	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Apr. 6, 2012	1 Year
Pre-amplifier	SCHWARZBECK	BBV9743	9743-019	Apr. 6, 2012	1 Year
Pre-amplifier	R&S	AFS33-1800 2650-30-8P-44	SEL0080	Apr. 6, 2012	1 Year

6. §15.247 (I) AND §1.1307 (B) (1), §2.1093 – RF EXPOSURE

6.1. Standard Applicable

According to §15.247 (i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB 447498 D01 Mobile Portable RF Exposure V04 , no SAR required if power is lower than the flowing threshold:

When routine evaluation is required for SAR and the output power is $\leq 60/f(\text{GHz})$ mW, the test reduction and test exclusion procedures given herein, or in KDB 616217 and its supplement or KDB 648474, are applicable.

A device may be used in portable exposure conditions with no restrictions on host platforms when either the source-based time-averaged output power is $\leq 60/f(\text{GHz})$ mW or all measured 1-g SAR are < 0.4 W/kg. When SAR evaluation is required, the most conservative exposure conditions for all expected operating configurations must be tested.

6.2. Test Result

Measurement Result:

The Max conducted output power = 12.37dBm

Antenna gain = 0 dBi

SAR exclusion threshold= $60/f=60/2.437=24.62$ mW = 13.91 dBm > 12.37 dBm

So the SAR measurement is not required.

7. §15.203 - ANTENNA REQUIREMENT

7.1. Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.2. Antenna Connector Construction

The antenna used for this product is a short metal soldered wire. The antenna is permanently attached. Refer to the product photo.

8. §15.207 - CONDUCTED EMISSIONS

8.1. Applicable Standard

The specification used was with the FCC Part 15.207 limits.

8.2. Test Procedure

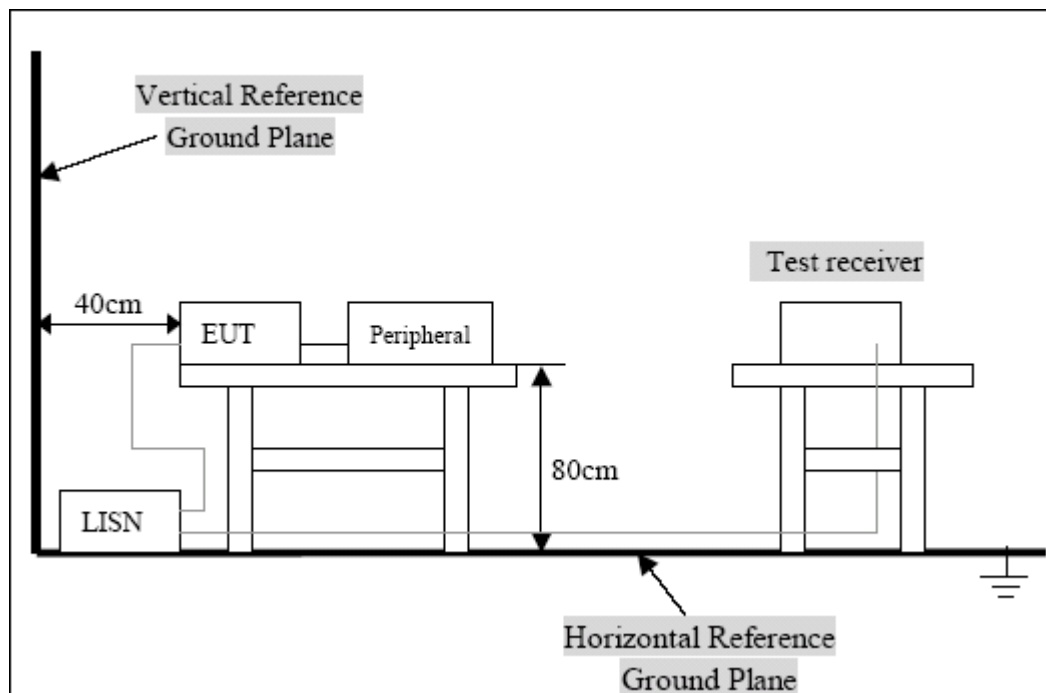
During the conducted emission test, the EUT was connected to the outlet of the LISN. Maximizing procedure was performed on the six (6) highest emissions of the EUT. All data was recorded in the Quasi-peak and average detection mode.

8.3. Conducted Power line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHz)	Class A QP/AV	Class B QP/AV
0.15-0.5	79/66	65-56/56-46
0.5-5.0	73/60	56-46
5.0-3.0	73/60	60-50

Note: In the above table, the tighter limit applies at the band edges.

8.4. Block Diagram of Test Setup

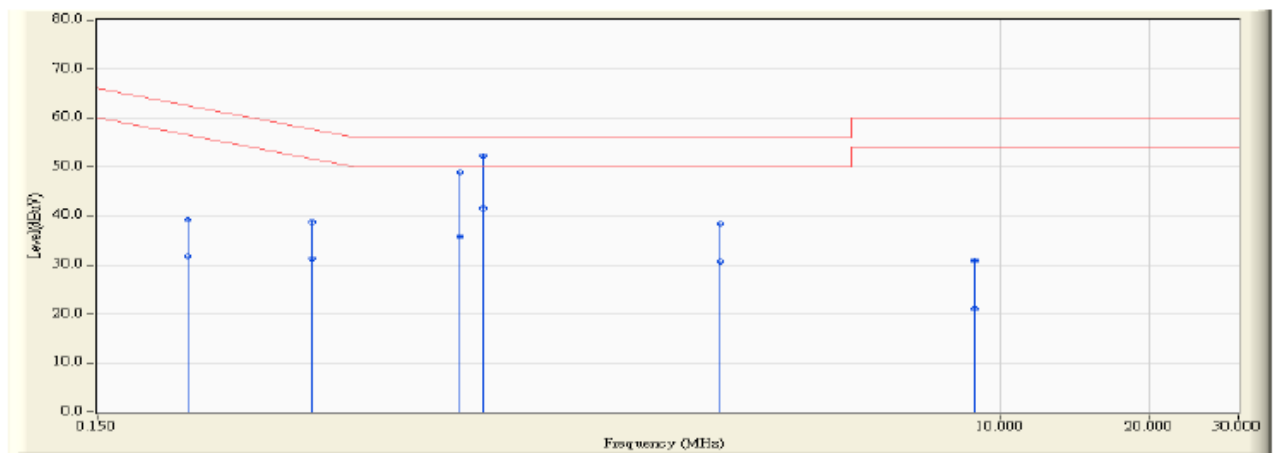


8.5. Conducted Power Line Test Result

Pass.

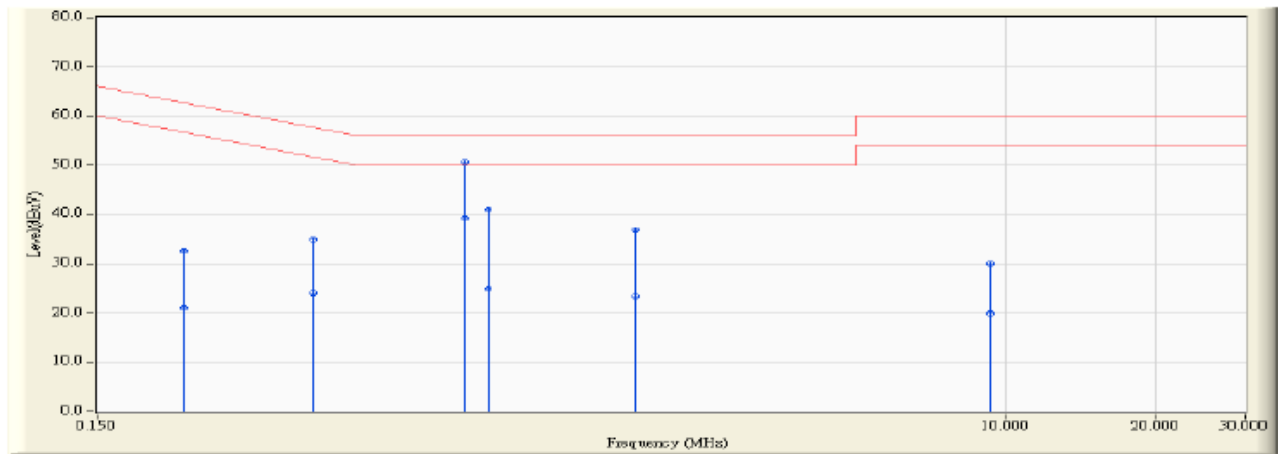
The worst test mode: Wi-Fi TX 802.11b 2437MHz

L line



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.228	9.661	29.640	39.301	-23.217	62.518	QUASIPeAK
2		0.228	9.661	22.010	31.671	-20.847	52.518	AVERAGE
3		0.408	9.687	29.210	38.897	-18.796	57.693	QUASIPeAK
4		0.408	9.687	21.590	31.277	-16.416	47.693	AVERAGE
5		0.810	9.750	39.200	48.950	-7.050	56.000	QUASIPeAK
6		0.810	9.750	25.990	35.740	-10.260	46.000	AVERAGE
7	*	0.900	9.764	42.500	52.264	-3.736	56.000	QUASIPeAK
8		0.900	9.764	31.740	41.504	-4.496	46.000	AVERAGE
9		2.705	9.959	28.420	38.379	-17.621	56.000	QUASIPeAK
10		2.705	9.959	20.720	30.679	-15.321	46.000	AVERAGE
11		8.834	10.113	20.820	30.933	-29.067	60.000	QUASIPeAK
12		8.834	10.113	10.820	20.933	-29.067	50.000	AVERAGE

N line



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.224	9.670	22.890	32.560	-30.101	62.661	QUASIPeAK
2		0.224	9.670	11.350	21.020	-31.641	52.661	AVERAGE
3		0.408	9.697	25.370	35.067	-22.626	57.693	QUASIPeAK
4		0.408	9.697	14.250	23.947	-23.746	47.693	AVERAGE
5	*	0.822	9.755	40.840	50.595	-5.405	56.000	QUASIPeAK
6		0.822	9.755	29.520	39.275	-6.725	46.000	AVERAGE
7		0.913	9.768	31.140	40.908	-15.092	56.000	QUASIPeAK
8		0.913	9.768	15.200	24.968	-21.032	46.000	AVERAGE
9		1.802	9.900	26.920	36.820	-19.180	56.000	QUASIPeAK
10		1.802	9.900	13.510	23.410	-22.590	46.000	AVERAGE
11		9.279	10.175	19.870	30.045	-29.955	60.000	QUASIPeAK
12		9.279	10.175	9.690	19.865	-30.135	50.000	AVERAGE

9. §15.209, §15.205, §15.247(D) - Spurious Emissions

9.1. Test Equipment

Please refer to section 2 this report.

9.2. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Calibrated Loop antenna is used as receiving antenna for frequencies below 30MHz, Calibrated Bilog antenna is used as receiving antenna for frequencies between 30 MHz and 1 GHz, Calibrated Horn antenna is used as receiving antenna for frequencies above 1000MHz. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

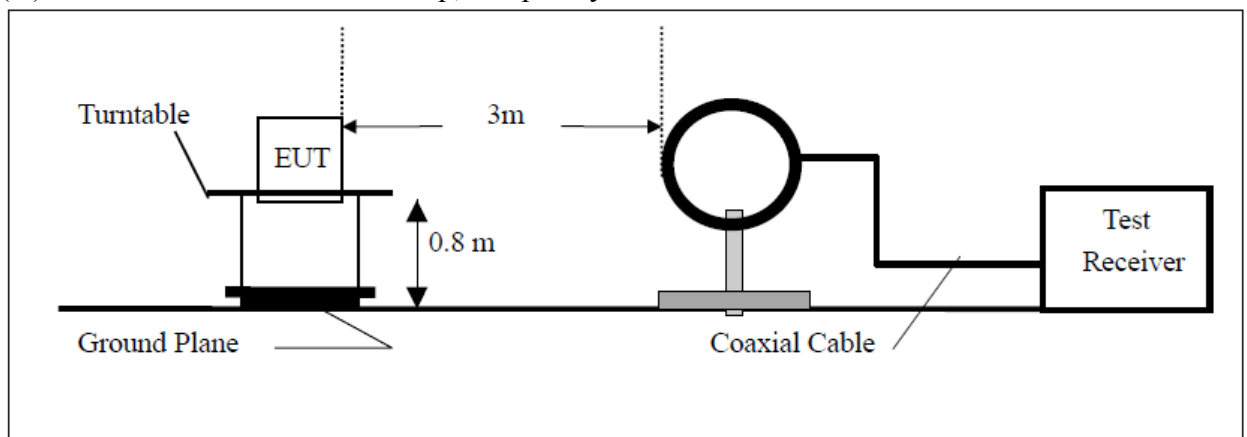
The frequency range from 9kHz to 25GHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Peak detector and Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

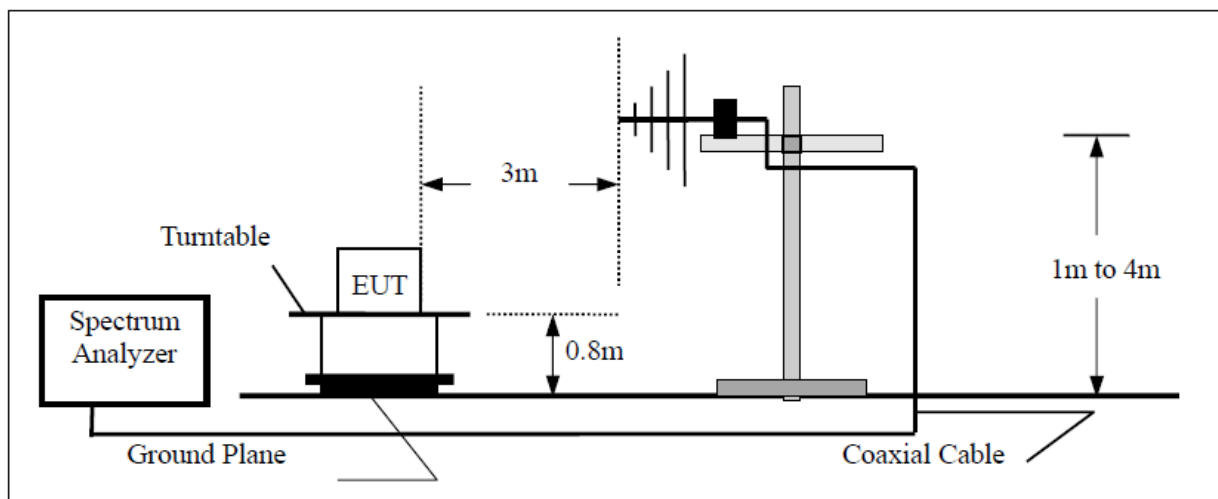
Through three orthogonal axes to determine which attitude and equipment arrangement produces the highest emission relative to the limit.

9.3. Radiated Test Setup

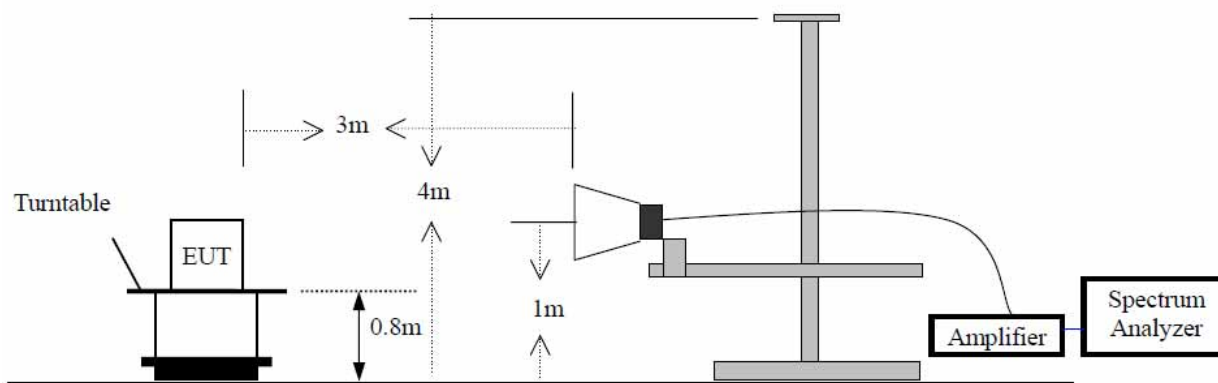
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



9.4. Radiated Emission Limit

Frequency (MHz)	Limit			The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)	Measurement distance (m)	
0.009 - 0.490	2400/F(kHz)	/	300	
0.490 - 1.705	24000/F(kHz)	/	30	
1.705-30	30	29.5	30	
30 - 88	100	40	3	
88 - 216	150	43.5	3	
216 - 960	200	46	3	
Above 960	500	54	3	

Note: (1) RF Voltage (dBuV)=20 log Voltage(uV)

(2) In the Above Table, the tighter limit applies at the band edges.

(3) Distancce refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

9.5. Radiated Emission Test Result

Pass.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	44.310	47.571	-26.429	74.000
7236.000	10.650	40.210	50.860	-23.140	74.000
9648.000	13.337	36.080	49.416	-24.584	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	41.970	48.391	-25.609	74.000
7236.000	11.495	38.110	49.605	-24.395	74.000
9648.000	13.807	35.560	49.366	-24.634	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal**Peak Detector:**

4874.000	3.038	45.660	48.697	-25.303	74.000
7311.000	11.795	39.740	51.534	-22.466	74.000
9748.000	12.635	36.590	49.225	-24.775	74.000

Average Detector:

--

Vertical**Peak Detector:**

4874.000	5.812	43.780	49.591	-24.409	74.000
7311.000	12.630	38.440	51.069	-22.931	74.000
9748.000	13.126	36.660	49.786	-24.214	74.000

Average Detector:

--

- Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal**Peak Detector:**

4924.000	2.858	48.310	51.167	-22.833	74.000
7386.000	12.127	38.290	50.418	-23.582	74.000
9848.000	12.852	36.630	49.483	-24.517	74.000

Average Detector:

--

Vertical**Peak Detector:**

4924.000	5.521	47.110	52.630	-21.370	74.000
7386.000	13.254	38.620	51.874	-22.126	74.000
9848.000	13.367	37.300	50.667	-23.333	74.000

Average Detector:

--

- Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	<u>September 7, 2012</u>	Temperature:	<u>25°C</u>
EUT:	<u>Handwriting Tablet PC</u>	Humidity:	<u>56%</u>
Model No.:	<u>WD08HD</u>	Power Supply:	<u>AC 120V/60Hz</u>
Test Mode:	<u>802.11g Channel Low 2412MHz</u>	Test Engineer:	<u>Adam Yang</u>

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal**Peak Detector:**

4824.000	3.261	38.590	41.851	-32.149	74.000
7236.000	10.650	36.680	47.330	-26.670	74.000
9648.000	13.337	36.133	49.469	-24.531	74.000

Average Detector:

--

Vertical**Peak Detector:**

4824.000	6.421	38.800	45.221	-28.779	74.000
7236.000	11.495	36.530	48.025	-25.975	74.000
9648.000	13.807	35.560	49.366	-24.634	74.000

Average Detector:

--

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	44.770	47.807	-26.193	74.000
7311.000	11.795	38.370	50.164	-23.836	74.000
9748.000	12.635	36.540	49.175	-24.825	74.000
Average Detector:					
--					
Peak Detector:					
4874.000	5.812	41.530	47.341	-26.659	74.000
7311.000	12.630	38.630	51.259	-22.741	74.000
9748.000	13.126	36.110	49.236	-24.764	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	45.120	47.977	-26.023	74.000
7386.000	12.127	38.250	50.378	-23.622	74.000
9848.000	12.852	36.710	49.563	-24.437	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	44.440	49.960	-24.040	74.000
7386.000	13.254	38.700	51.954	-22.046	74.000
9848.000	13.367	37.490	50.857	-23.143	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT20 Channel Low 2412MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	42.050	45.311	-28.689	74.000
7236.000	10.650	41.290	51.940	-22.060	74.000
9648.000	13.337	36.130	49.466	-24.534	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	39.840	46.261	-27.739	74.000
7236.000	11.495	35.570	47.065	-26.935	74.000
9648.000	13.807	35.670	49.476	-24.524	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012

Temperature: 25°C

EUT: Handwriting Tablet PC

Humidity: 56%

Model No.: WD08HD

Power Supply: AC 120V/60Hz

Test Mode: 802.11n HT20 Channel Middle 2437MHz

Test Engineer: Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBuV	dBuV/m	dB	dBuV/m

Horizontal**Peak Detector:**

4874.000	3.038	43.350	46.387	-27.613	74.000
7311.000	11.795	38.880	50.674	-23.326	74.000
9748.000	12.635	36.580	49.215	-24.785	74.000

Average Detector:

--

Vertical**Peak Detector:**

4874.000	5.812	42.240	48.051	-25.949	74.000
7311.000	12.630	37.810	50.439	-23.561	74.000
9748.000	13.126	36.850	49.976	-24.024	74.000

Average Detector:

--

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. Measurement Level = Reading Level + Correct Factor.

3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT20 Channel High 2462MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	46.490	49.347	-24.653	74.000
7386.000	12.127	39.480	51.608	-22.392	74.000
9848.000	12.852	36.850	49.703	-24.297	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	45.330	50.850	-23.150	74.000
7386.000	13.254	37.570	50.824	-23.176	74.000
9848.000	13.367	36.690	50.057	-23.943	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT40 Channel Low 2422MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4844.000	3.171	39.520	42.691	-31.309	74.000
7266.000	11.162	37.330	48.492	-25.508	74.000
9688.000	12.964	36.560	49.525	-24.475	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4844.000	6.178	38.170	44.348	-29.652	74.000
7266.000	11.982	36.540	48.522	-25.478	74.000
9688.000	13.507	36.480	49.988	-24.012	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT40 Channel Middle 2437MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	39.890	42.927	-31.073	74.000
7311.000	11.795	37.280	49.074	-24.926	74.000
9748.000	12.635	36.690	49.325	-24.675	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	38.170	43.981	-30.019	74.000
7311.000	12.630	35.870	48.499	-25.501	74.000
9748.000	13.126	36.850	49.976	-24.024	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT40 Channel High 2452MHz	Test Engineer:	Adam Yang

For below 1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Correct Factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

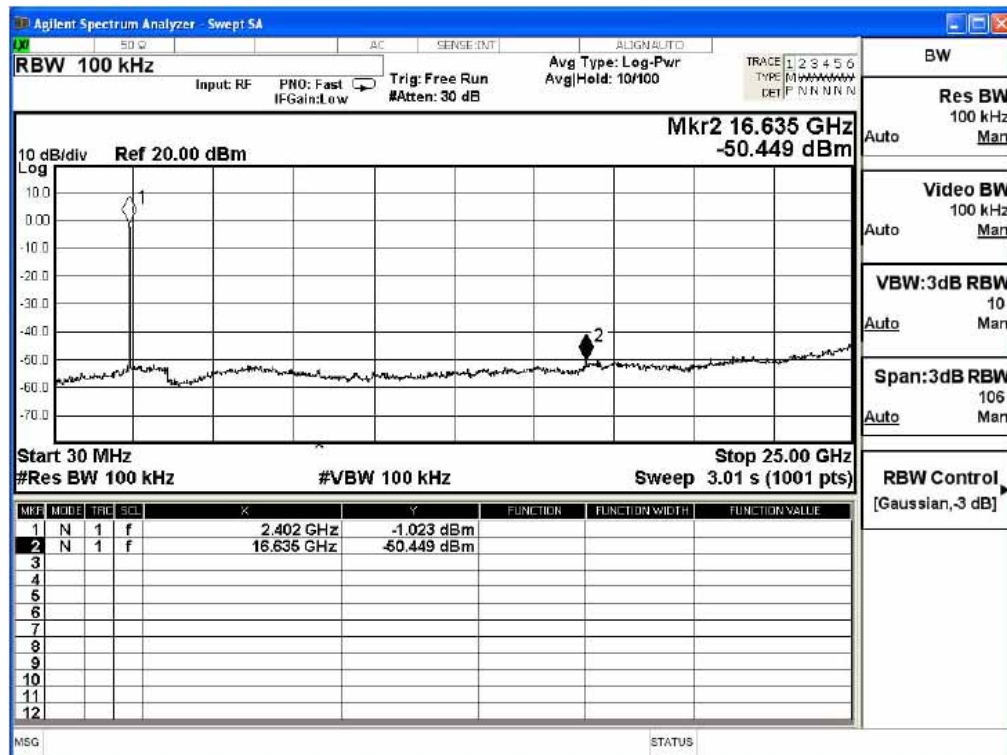
Frequency MHz	Correct Factor dB	Reading Level dBuV	Measurement Level dBuV/m	Margin dB	Limit dBuV/m
Horizontal					
Peak Detector:					
4904.000	2.914	37.860	40.775	-33.225	74.000
7356.000	11.995	35.400	47.394	-26.606	74.000
9808.000	12.475	36.230	48.705	-25.295	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4904.000	5.530	38.210	43.741	-30.259	74.000
7356.000	13.005	35.180	48.184	-25.816	74.000
9808.000	12.901	36.380	49.281	-24.719	74.000
Average Detector:					
--					

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
 2. Measurement Level = Reading Level + Correct Factor.
 3. The average measurement was not performed when the peak measured data under the limit of average detection.

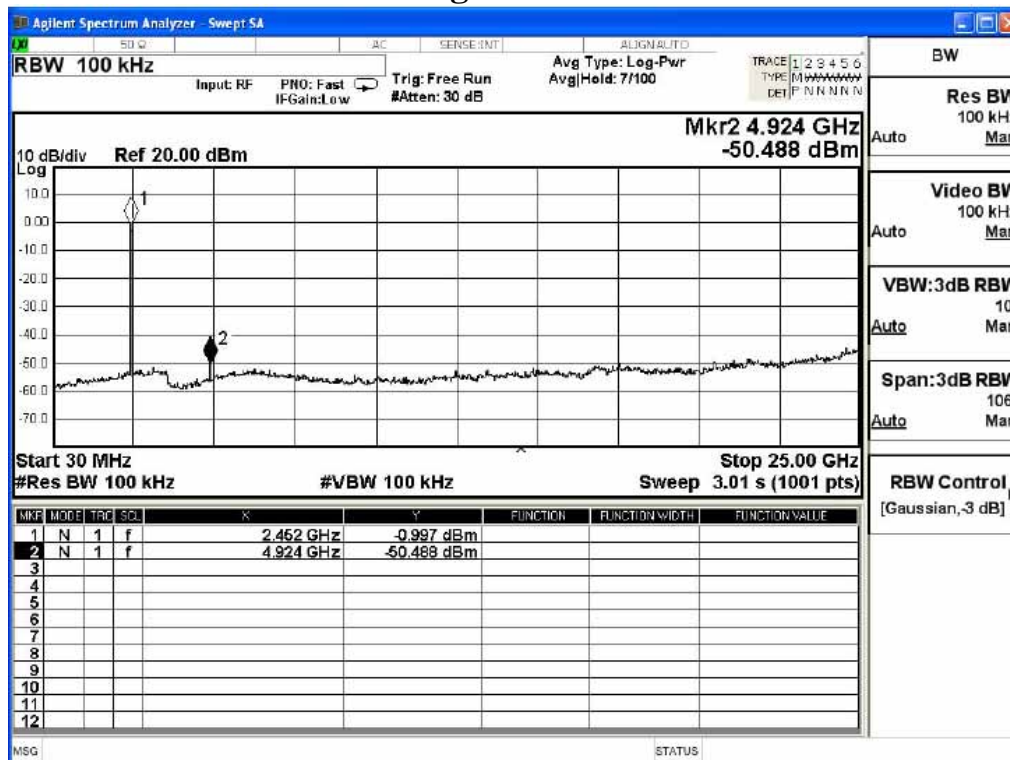
Antenna port conducted spurious emissions

802.11b mode:

Low channel

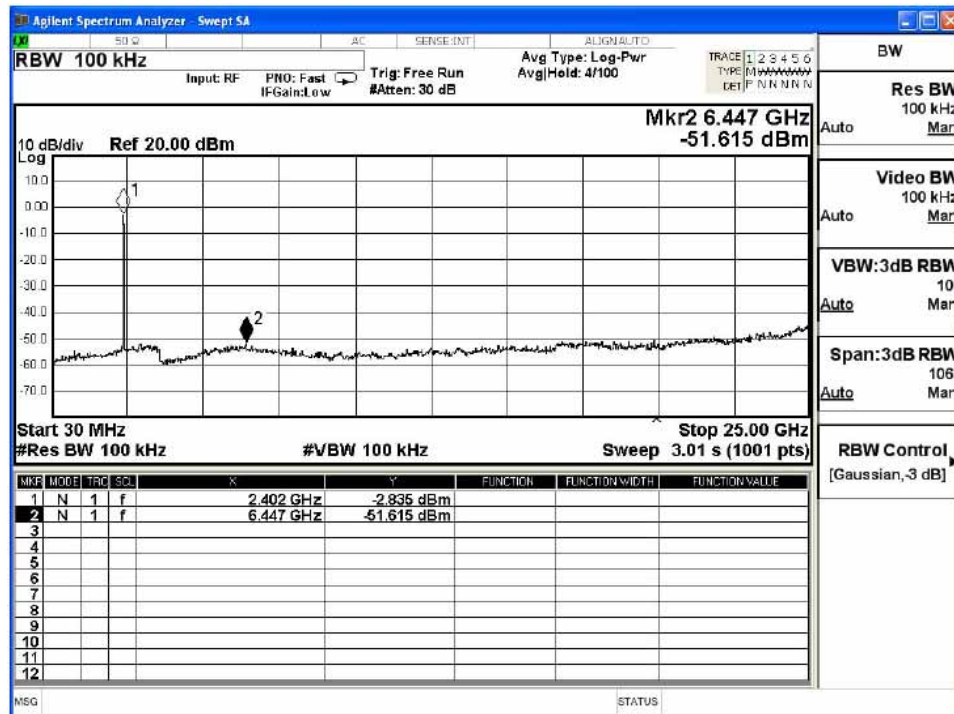


High channel

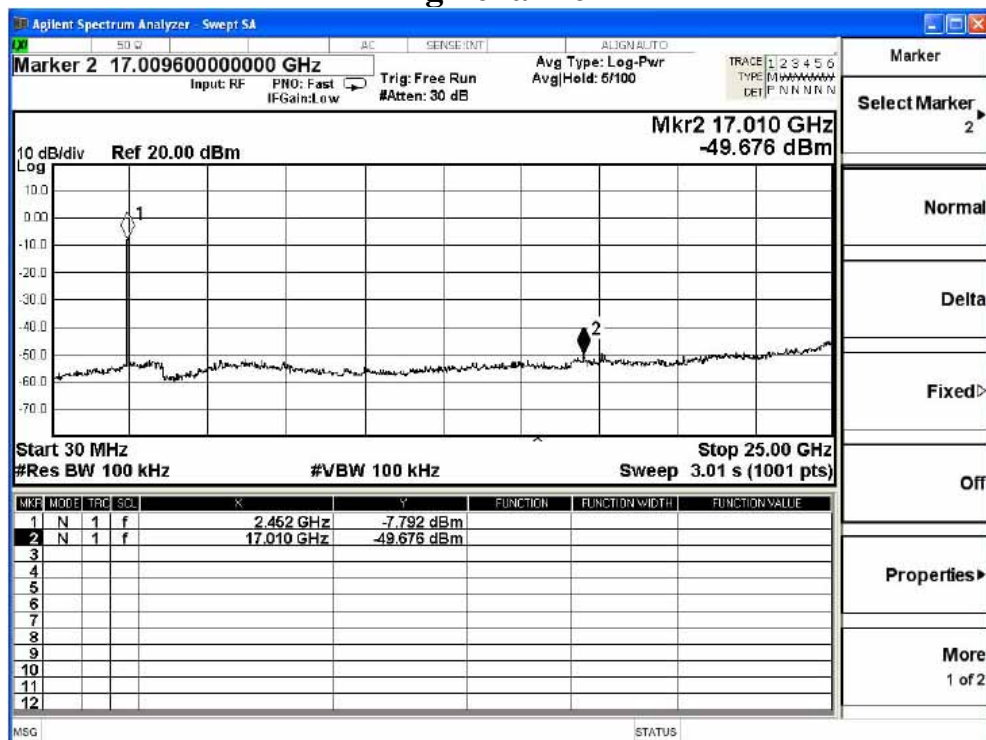


802.11g mode:

Low channel

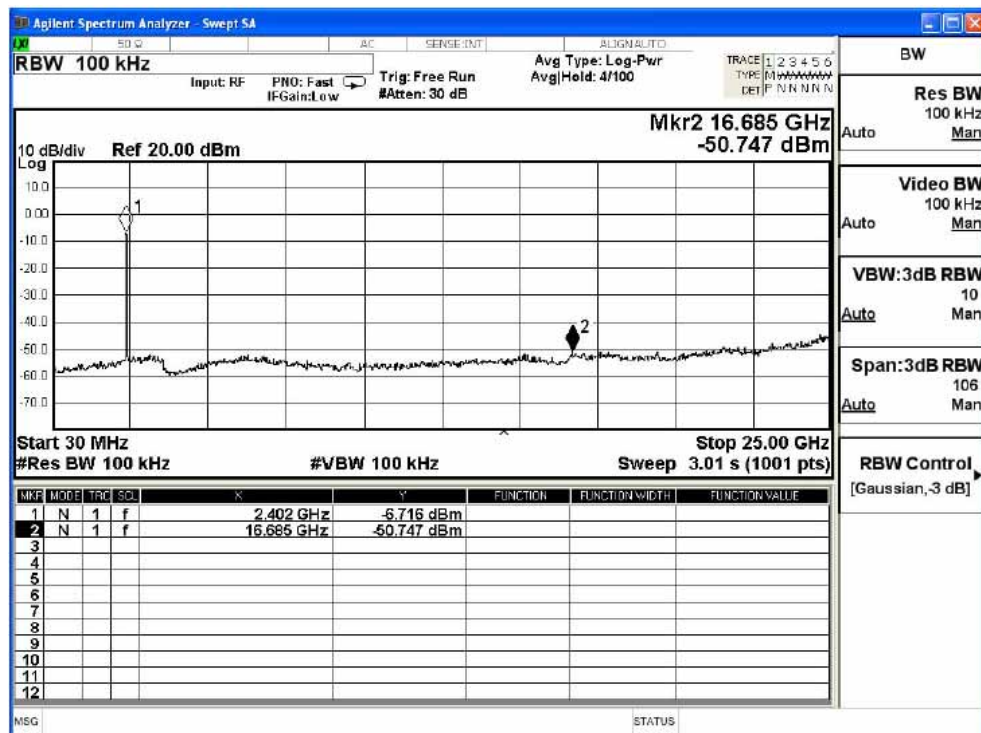


High channel

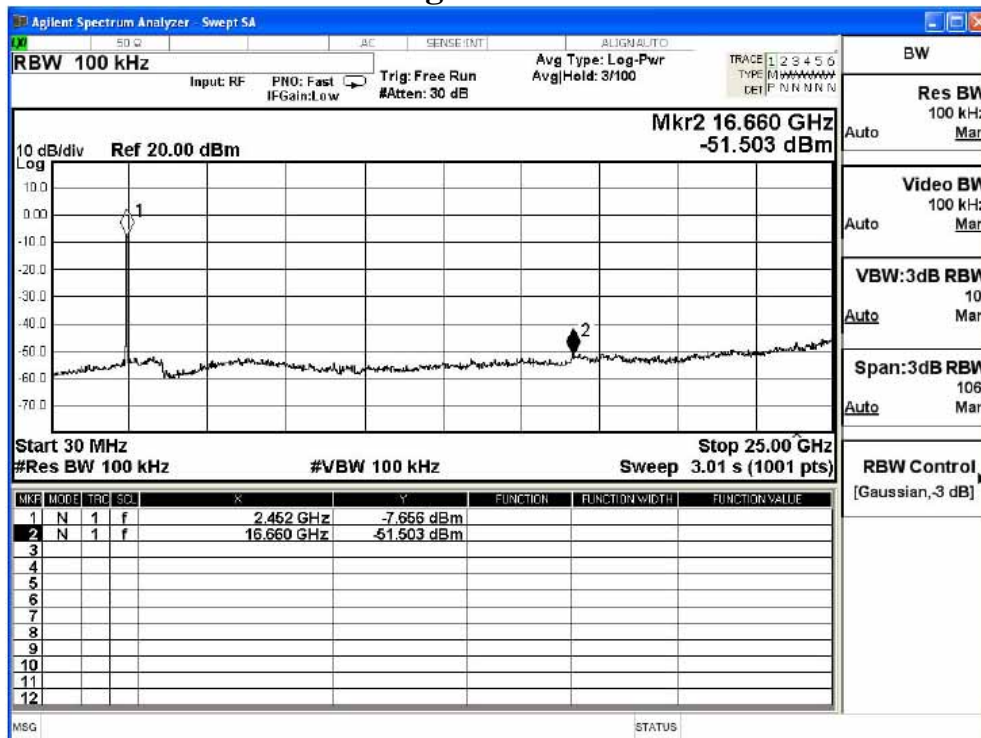


802.11n (20M) mode:

Low channel

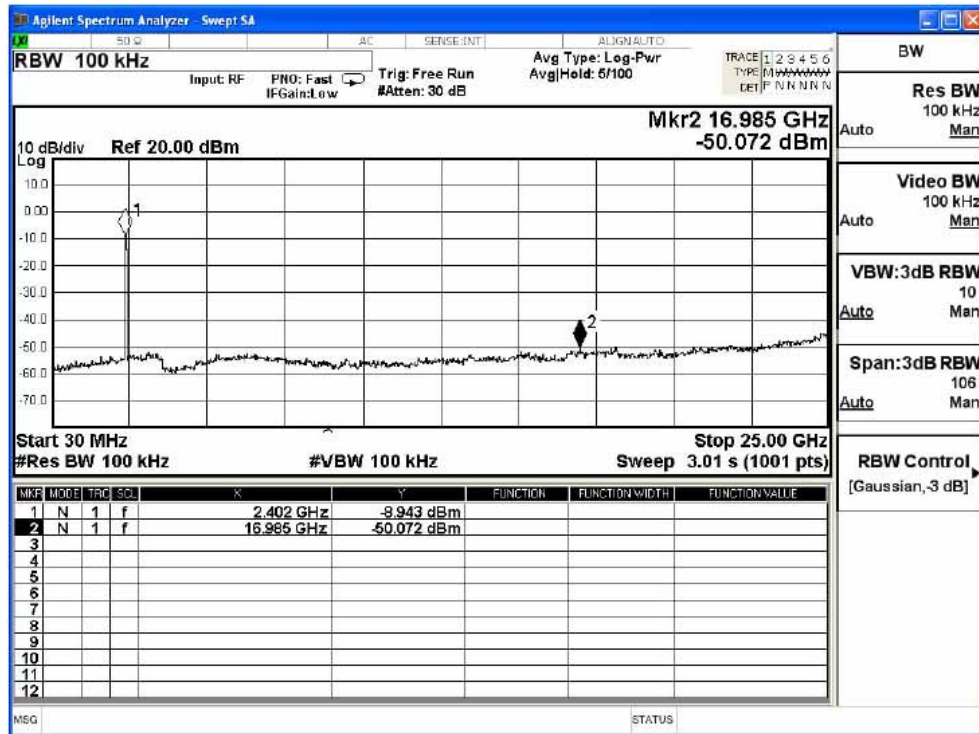


High channel

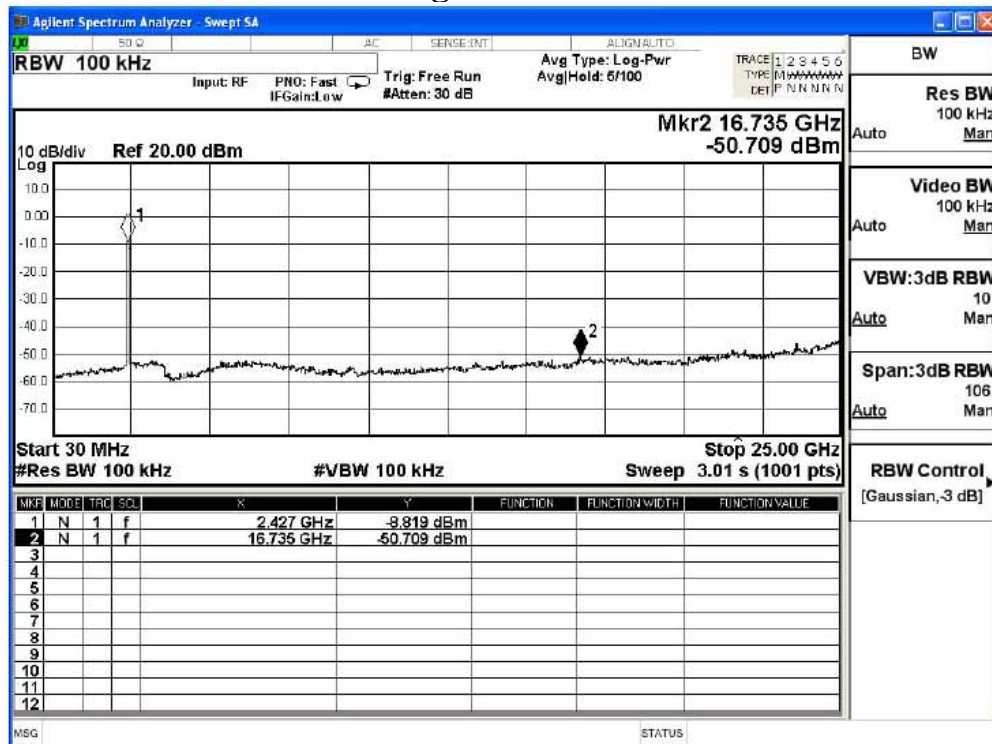


802.11n (40M) mode:

Low channel



High channel



10. §15.247(A) (2) – 6DB BANDWIDTH TESTING

10.1. Test Equipment

Please refer to Section 4 this report.

10.2. Test Procedure

1. Set EUT in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW RBW, Span=50MHz, Sweep=auto.
4. Mark the peak frequency and -6dB(upper and lower) frequency.
5. Repeat until all the rest channels are investigated.

10.3. Applicable Standard

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.

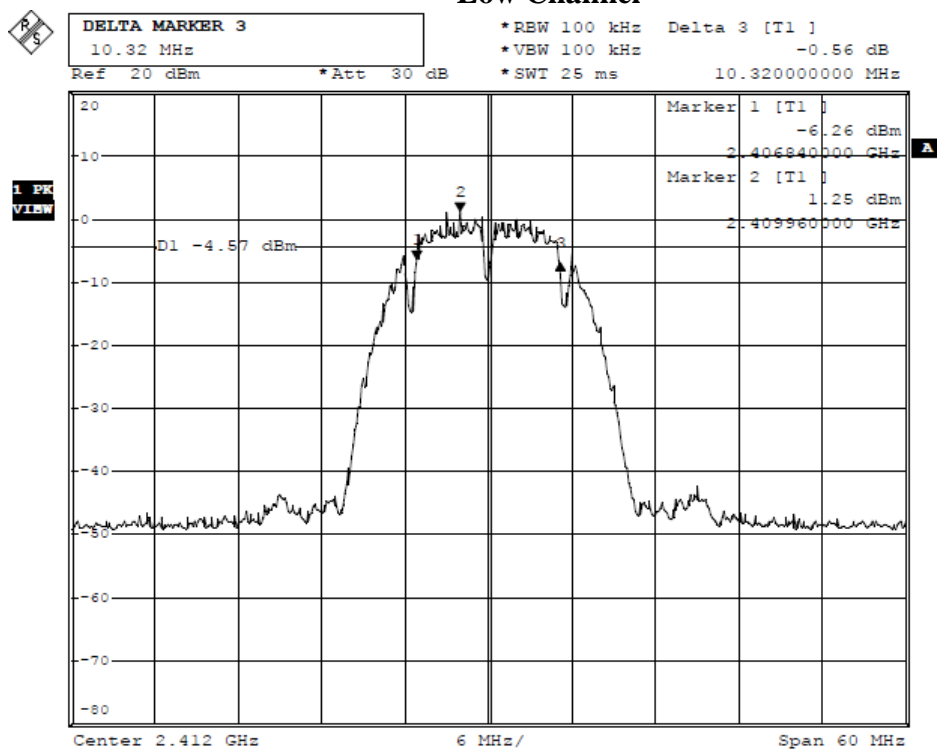
10.4. Test Result: Pass.

Please refer to the following tables

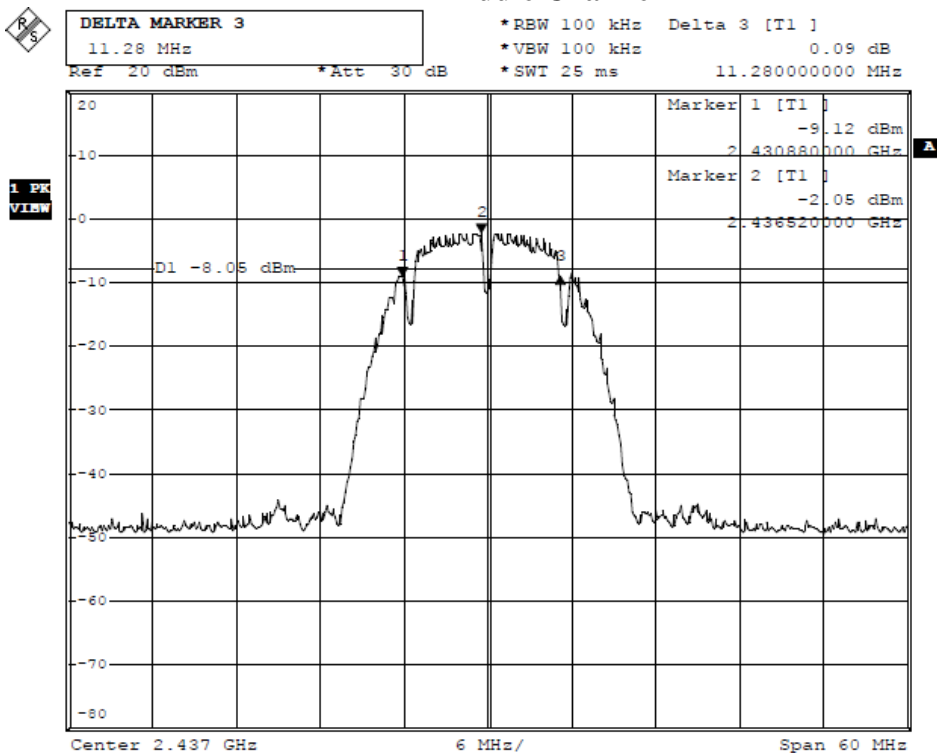
Channel Frequency (MHz)	Data Rate (Mbps)	6dB Bandwidth (kHz)	Limit (kHz)	Result
802.11b Mode				
2412	1	10320	> 500	Pass
2437	1	11280	> 500	Pass
2462	1	10320	> 500	Pass
802.11g Mode				
2412	6	16560	> 500	Pass
2437	6	16560	> 500	Pass
2462	6	16560	> 500	Pass
802.11n (20M) Mode				
2412	6.5	17280	> 500	Pass
2437	6.5	17400	> 500	Pass
2462	6.5	17160	> 500	Pass
802.11n (40M) Mode				
2412	13	35520	> 500	Pass
2437	13	35520	> 500	Pass
2462	13	35520	> 500	Pass

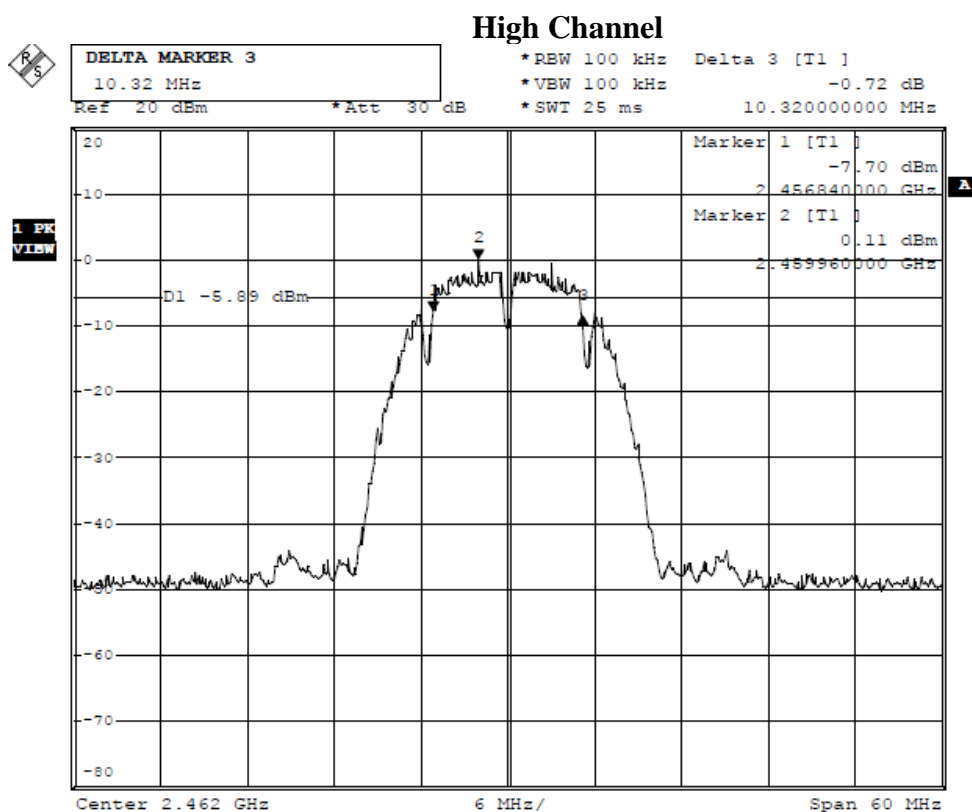
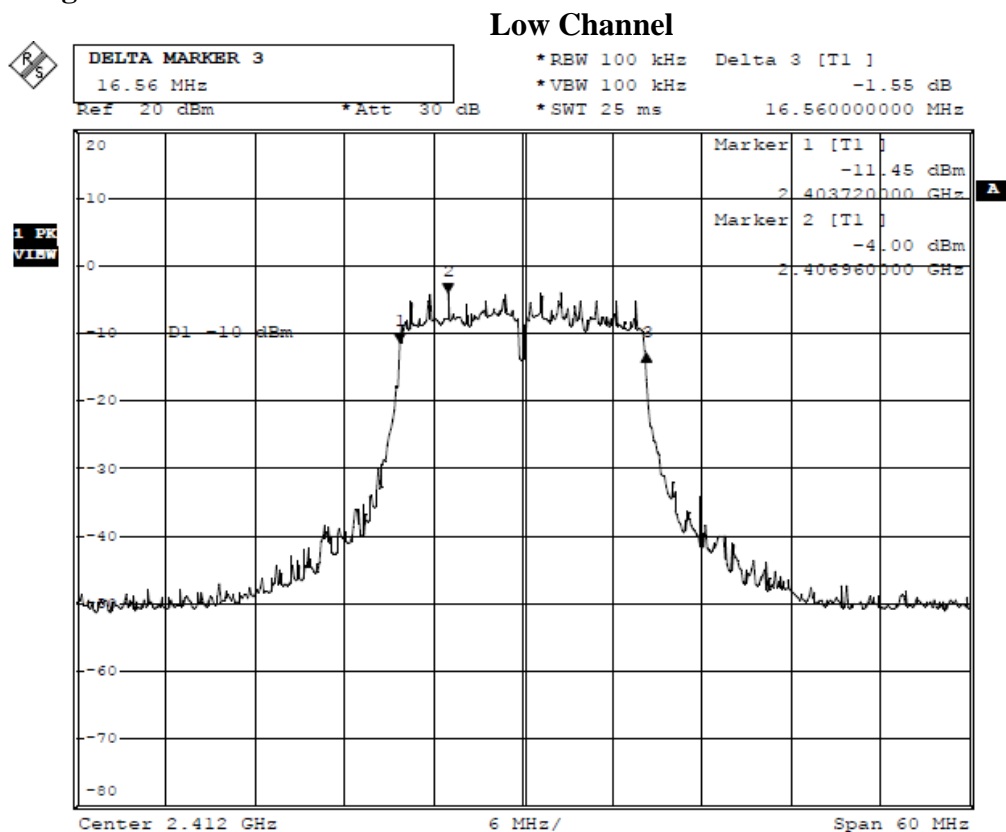
802.11b Mode:

Low Channel

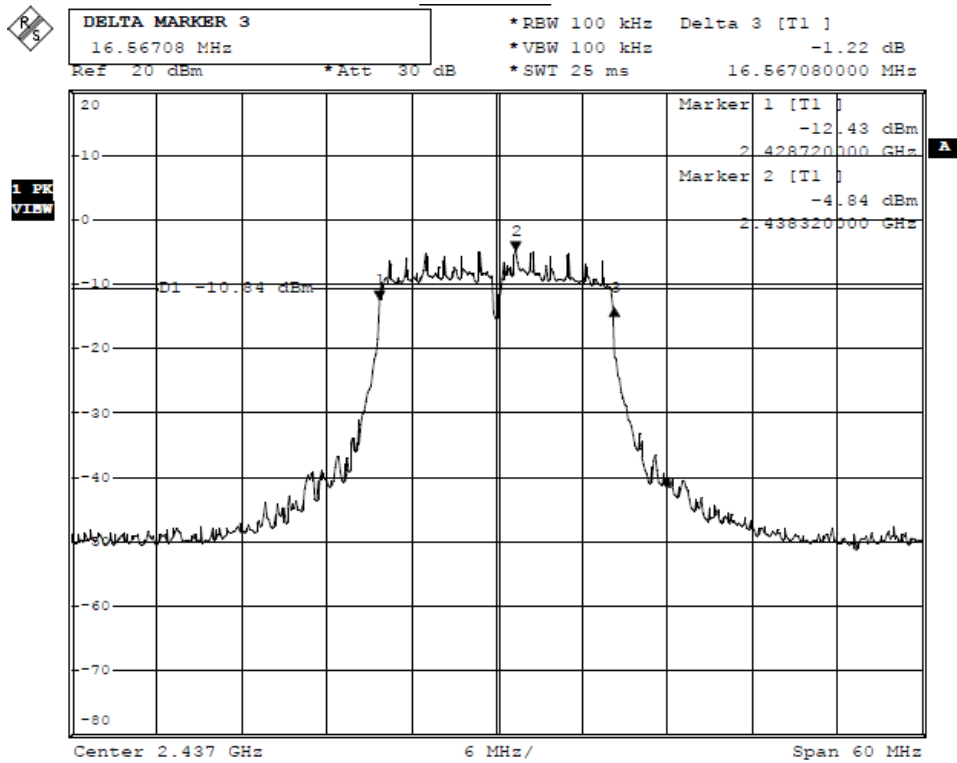


Middle Channel

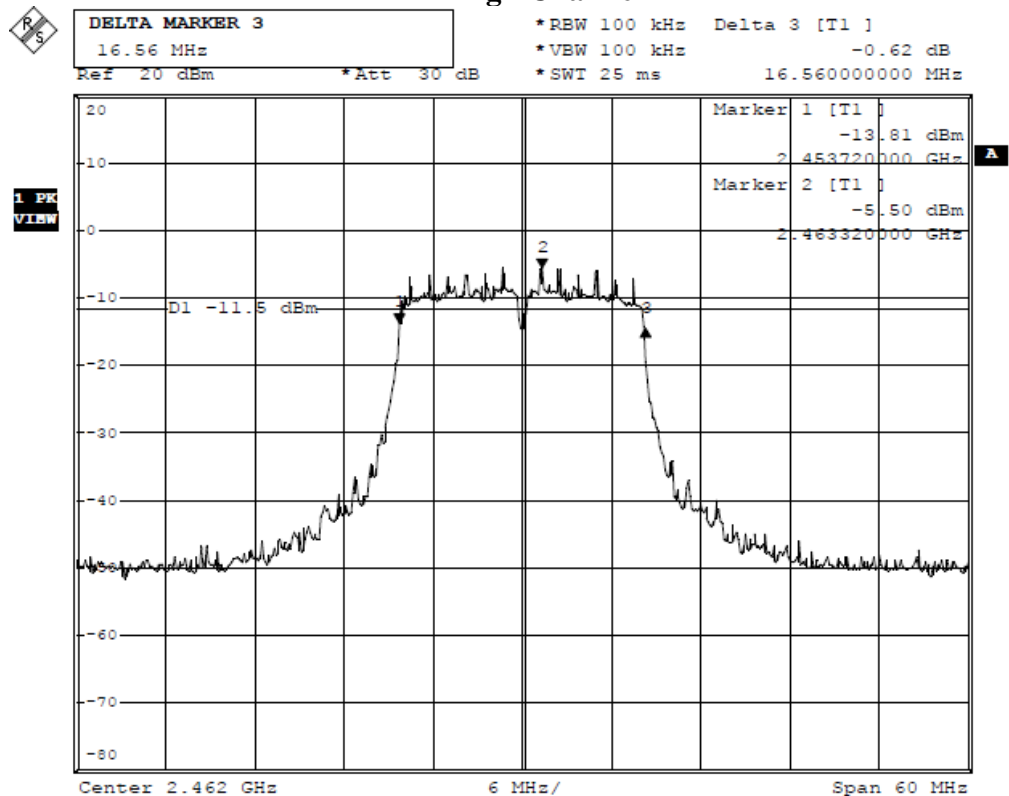


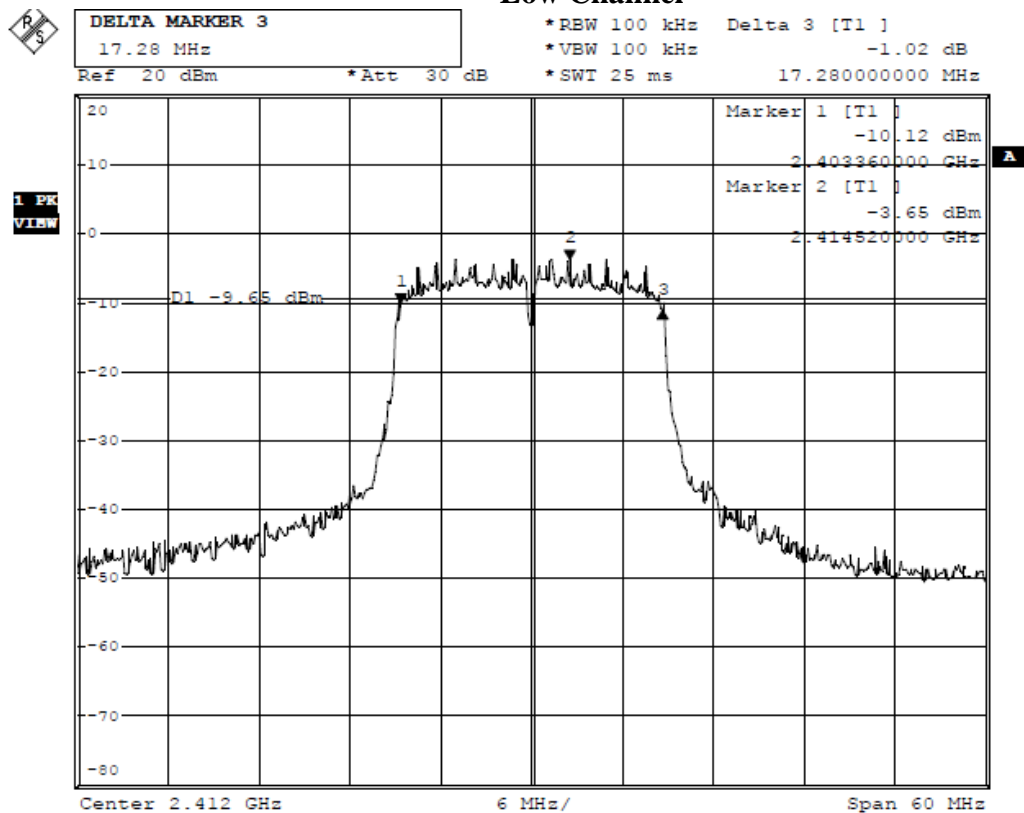
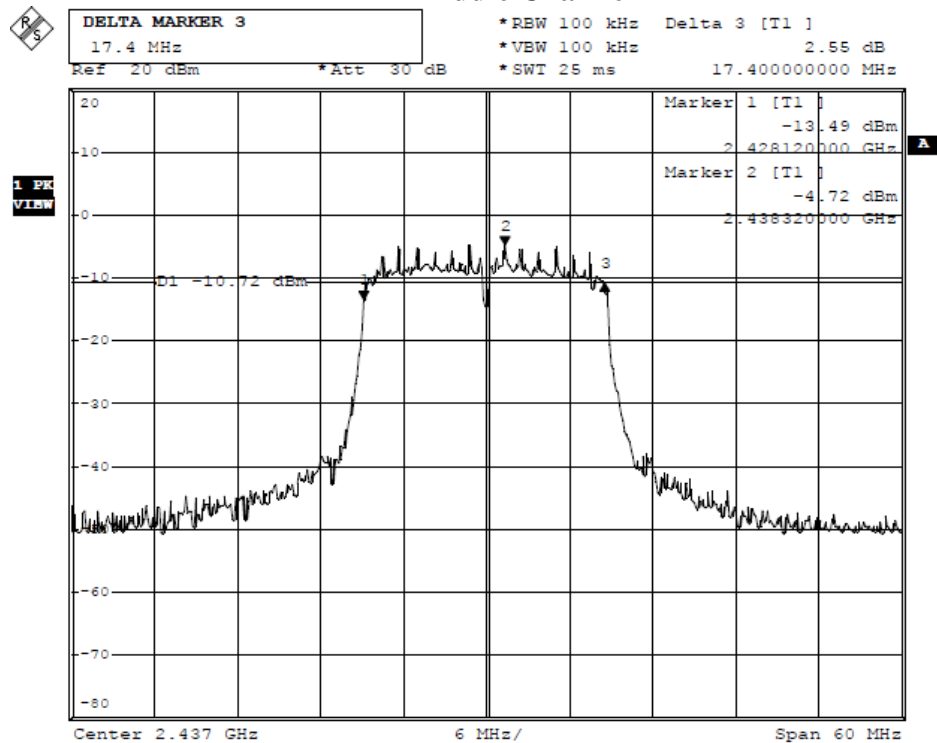
**802.11g Mode:**

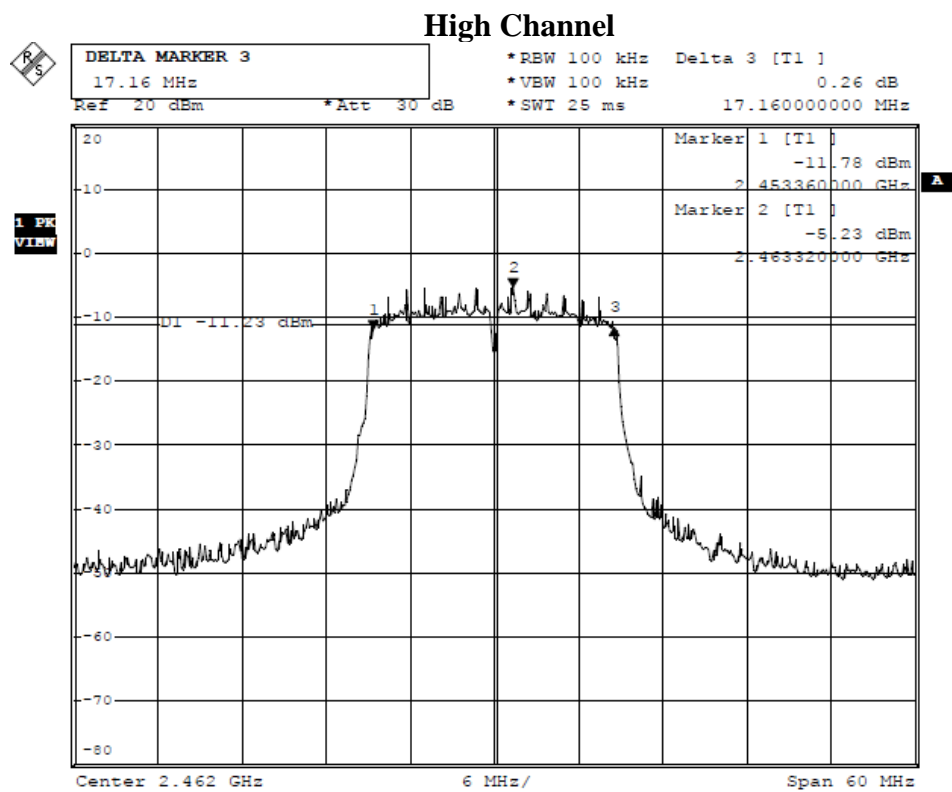
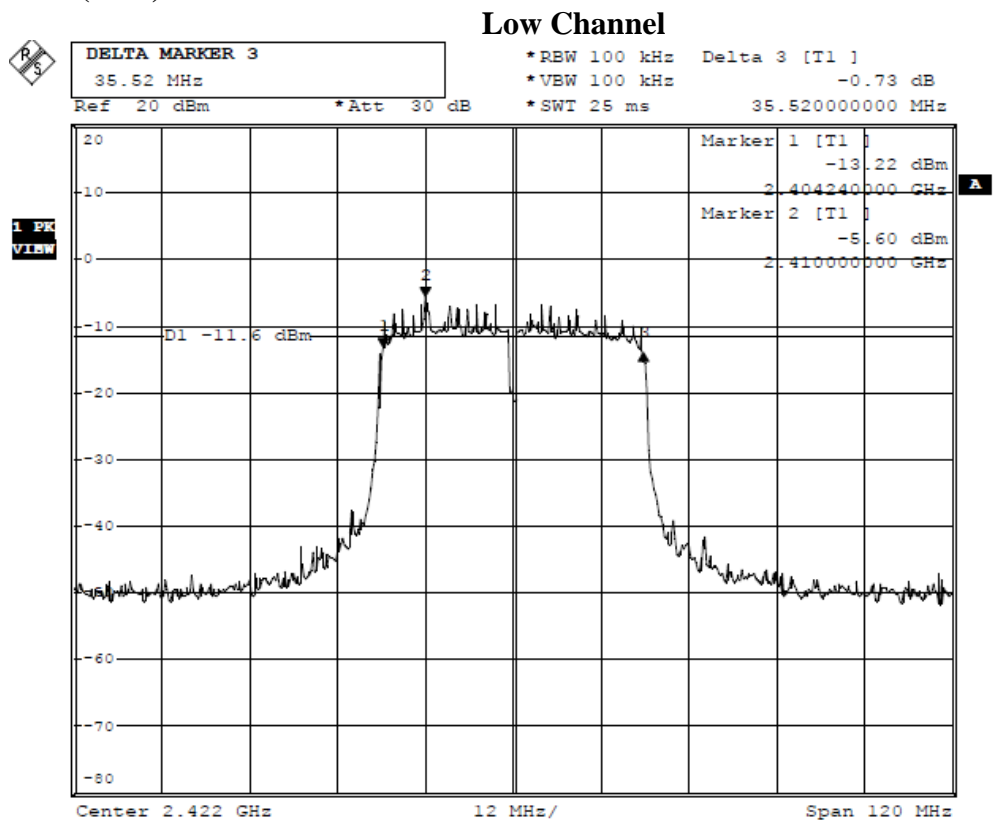
Middle Channel



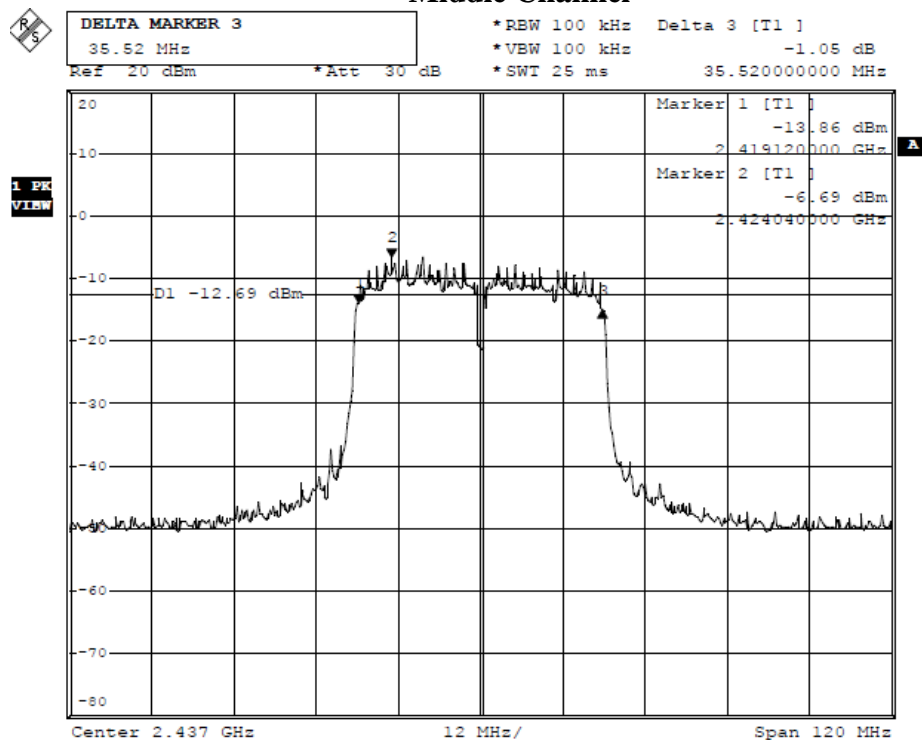
High Channel



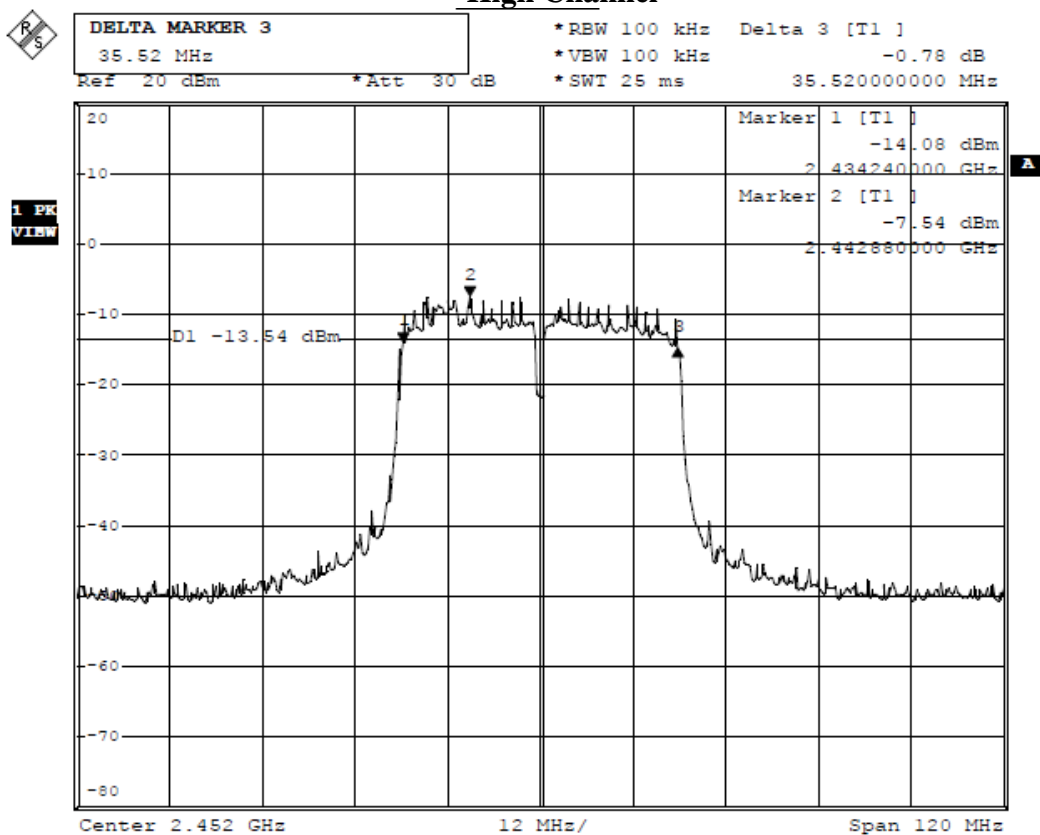
802.11n (20M) Mode:**Low Channel****Middle Channel**

**802.11n (40M) Mode:**

Middle Channel



High Channel



11. §15.247(B) (3) - Maximum Peak Output Power

11.1. Test Equipment

Please refer to Section 4 this report.

11.2. Test Procedure

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW = 3 MHz.
4. Use sample detector mode if bin width (i.e., span/number of points in spectrum display) < 0.5 RBW. Otherwise use peak detector mode.
5. Use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at full control power for entire sweep of every sweep. If the device transmits continuously, with no off intervals or reduced power intervals, the trigger may be set to “free run”.
6. Trace average 100 traces in power averaging mode.
7. Compute power by integrating the spectrum across the 26 dB EBW of the signal. The integration can be performed using the spectrum analyzer’s band power measurement function with band limits set equal to the EBW band edges or by summing power levels in each 1 MHz band in linear power terms. The 1 MHz band power levels to be summed can be obtained by averaging, in linear power terms, power levels in each frequency bin across the 1 MHz.

11.3. Applicable Standard

According to §15.247(b) (3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt. 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. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

11.4. Test Result**Pass****802.11b Mode:**

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2412	1	12.33	30
Mid	2437	1	12.37	30
High	2462	1	12.26	30

802.11g Mode:

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2412	6	11.64	30
Mid	2437	6	11.58	30
High	2462	6	11.49	30

802.11n (20M) Mode:

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2412	6.5	11.04	30
Mid	2437	6.5	10.87	30
High	2462	6.5	10.73	30

802.11n (40M) Mode:

Channel	Frequency (MHz)	Data Rate (Mbps)	Conducted Power (dBm)	Limit (dBm)
Low	2422	13.5	10.42	30
Mid	2437	13.5	10.27	30
High	2452	13.5	10.35	30

12. §15.247(D) – 100 KHZ Bandwidth of Frequency Band Edge

12.1.Test Equipment

Please refer to Section 4 this report.

12.2.Test Procedure

- 1, Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2, Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3, Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
Note: For Rdstricted Band
RBW=1MHz
VBW=1 MHz
- 4, Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5, Repeat above procedures until all measured frequencies were complete.

12.3.Applicable Standard

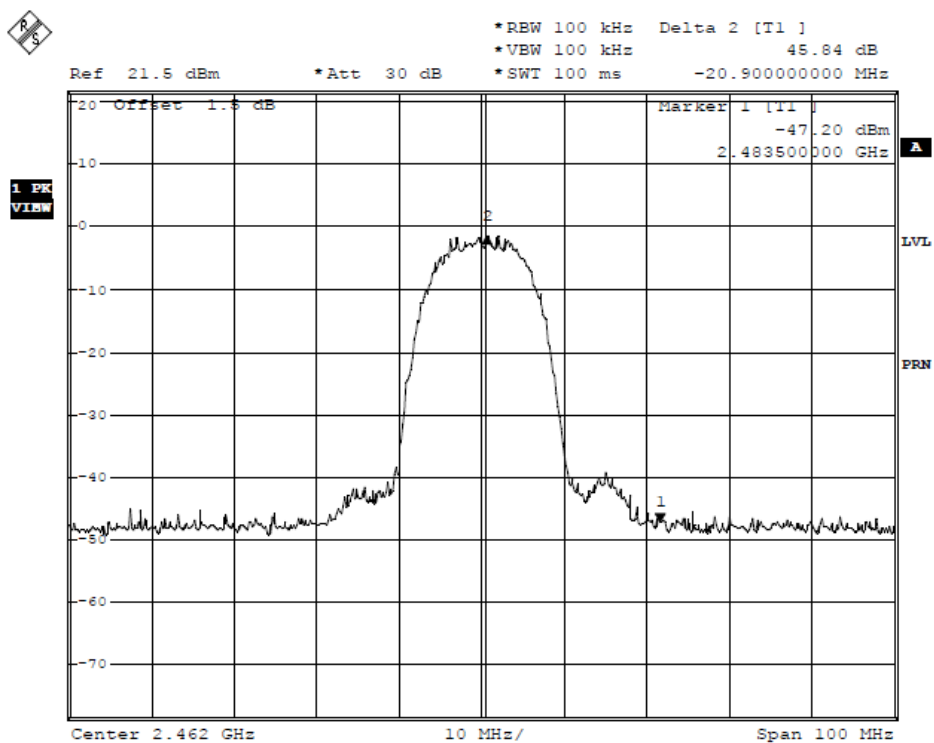
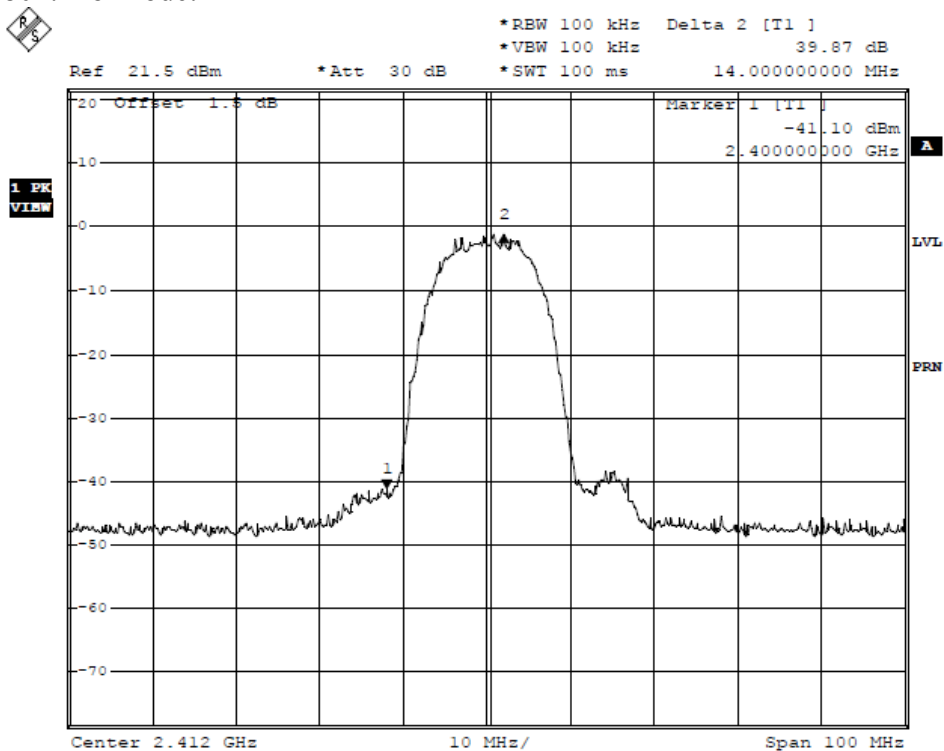
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

12.4.Test Result

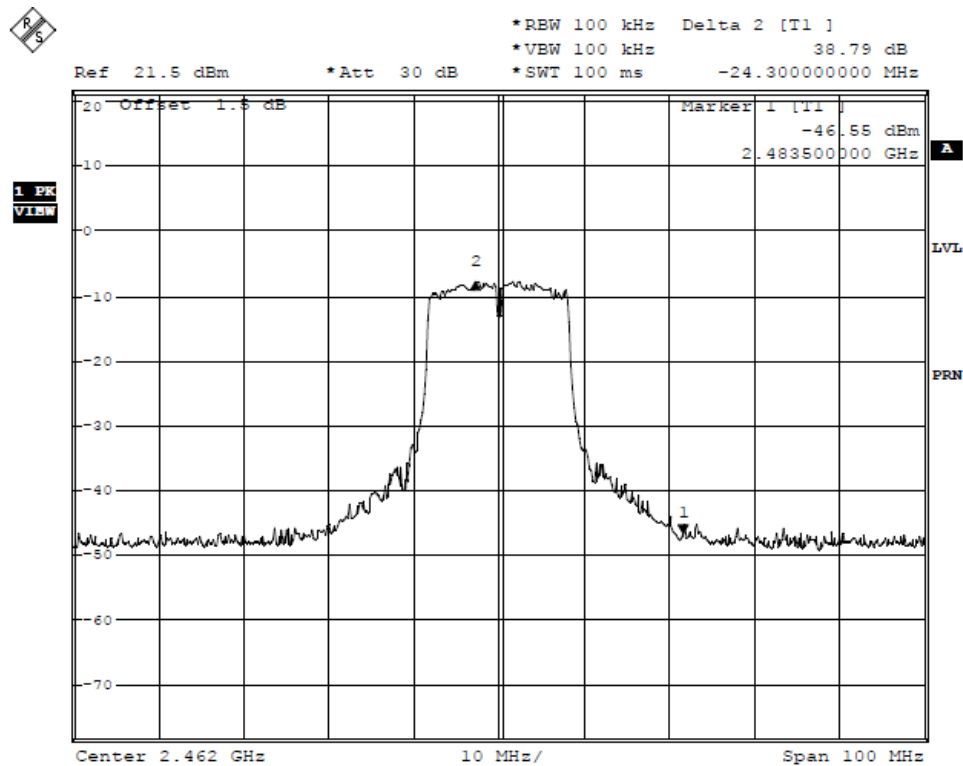
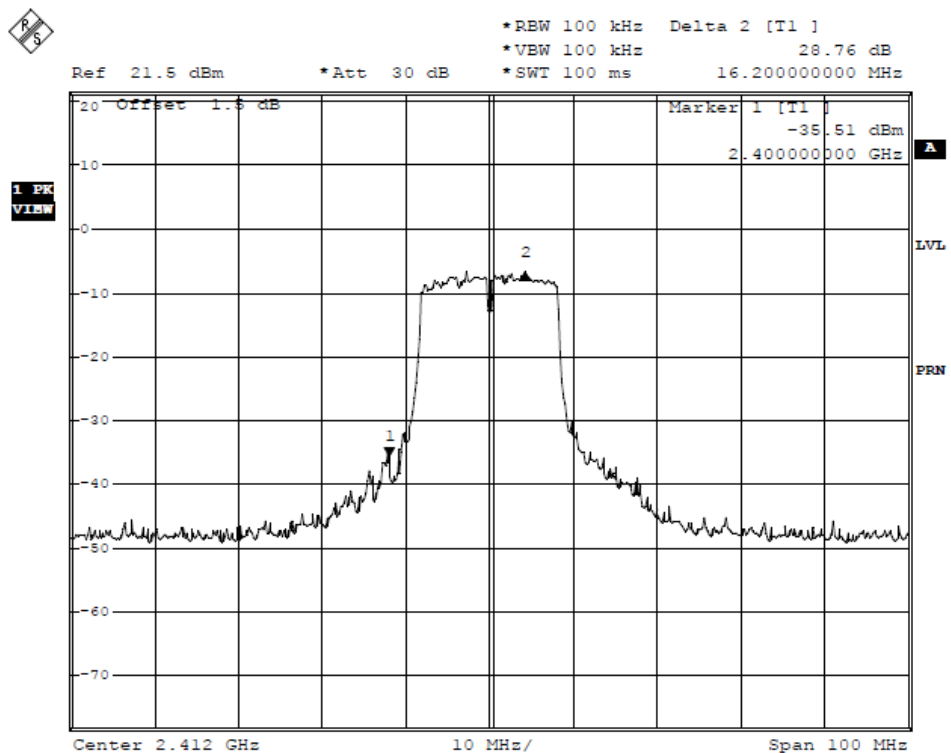
Pass.

Conducted test

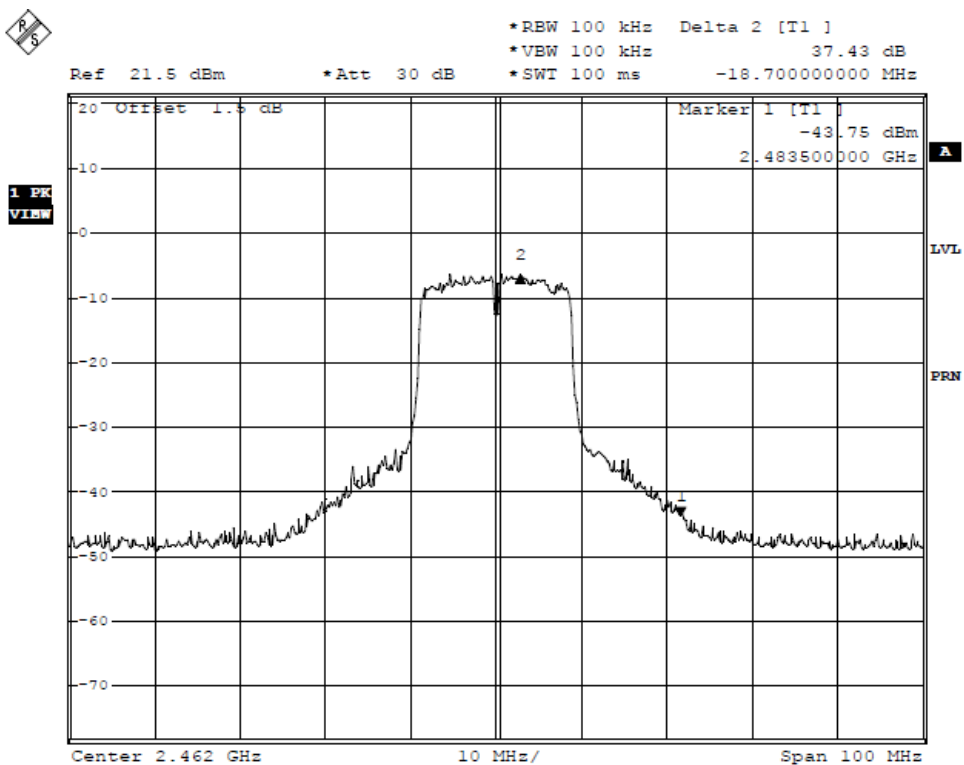
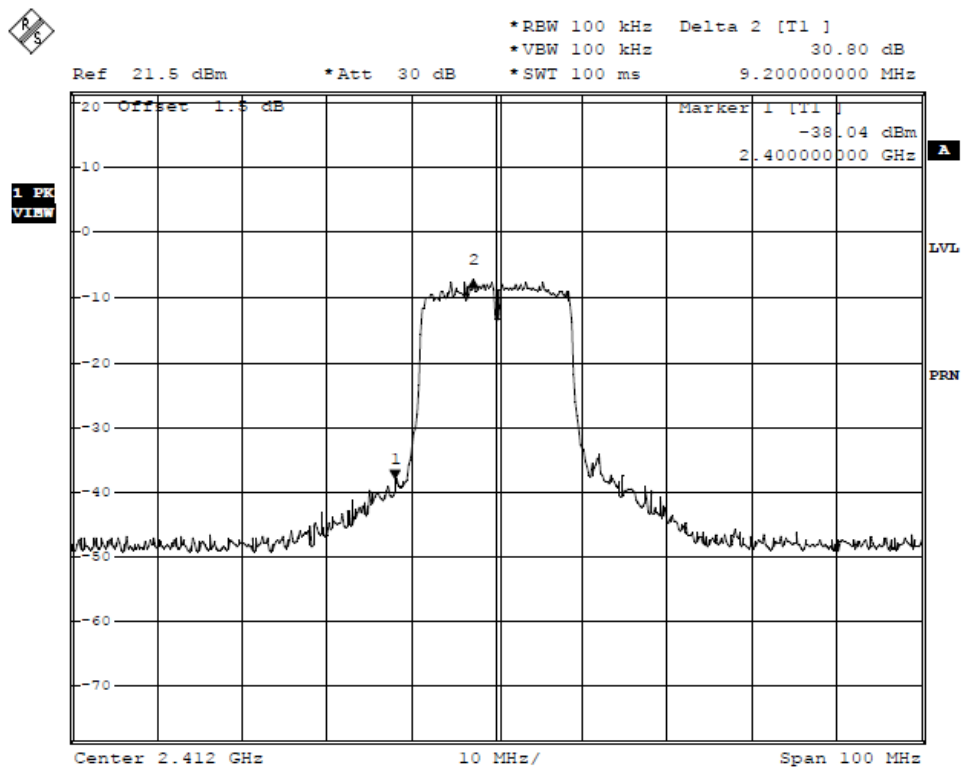
802.11b Mode:



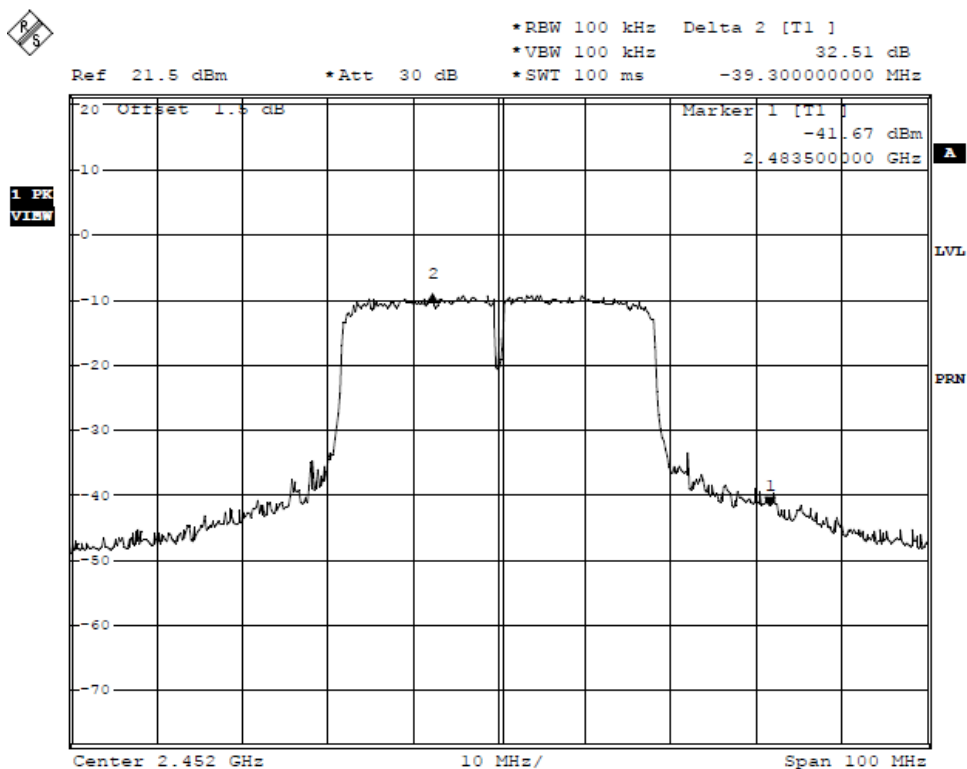
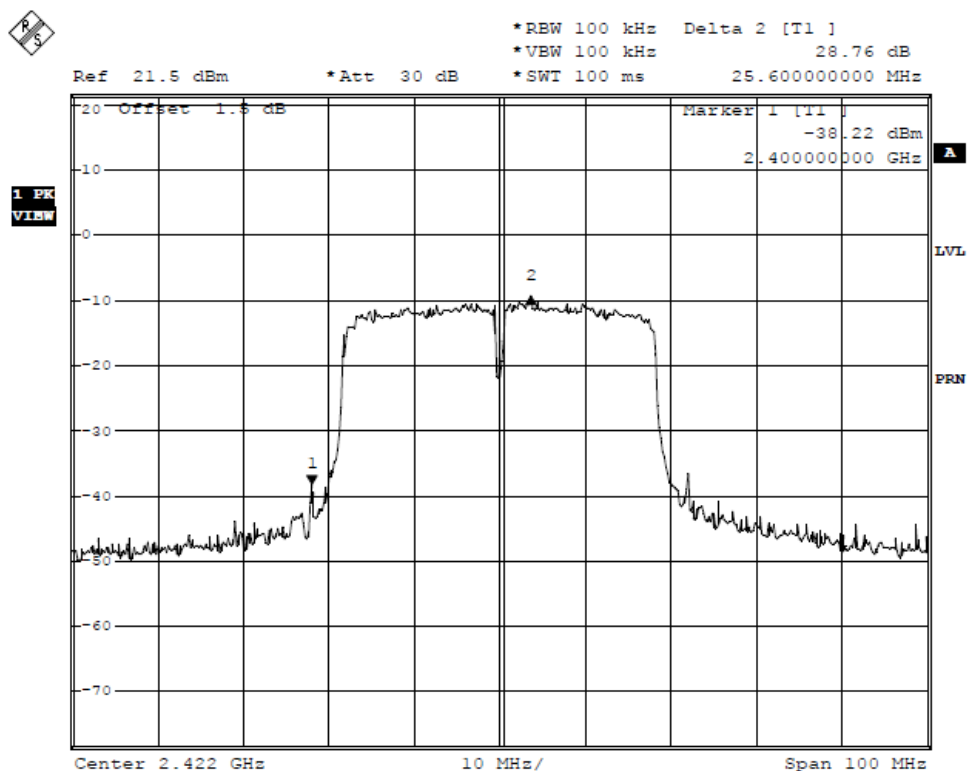
802.11g Mode:



802.11n (20M) Mode:

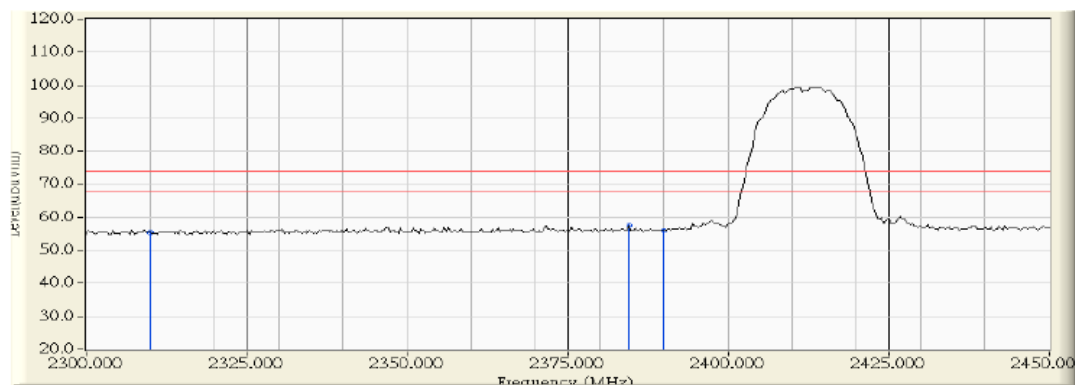


802.11n (40M) Mode:

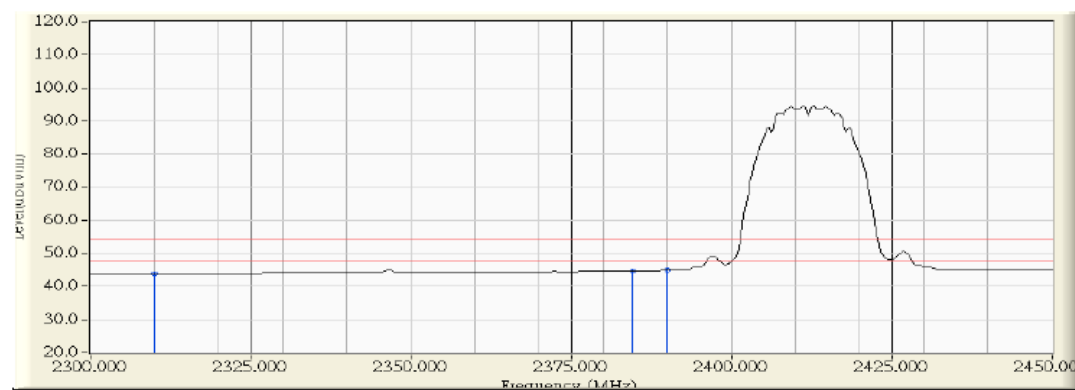


Radiated test

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Polarization:	HORIZONTAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1	2310.000	29.779	25.683	55.462	-18.538	74.000	PEAK
2	* 2384.600	30.524	27.031	57.555	-16.445	74.000	PEAK
3	2390.000	30.578	25.320	55.898	-18.102	74.000	PEAK

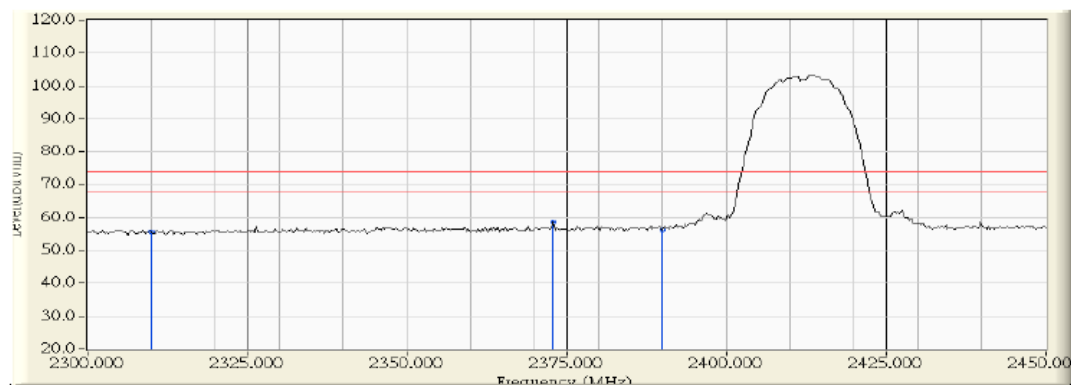


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Measure Level (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector Type
1	2310.000	29.779	14.023	43.802	-10.198	54.000	AVERAGE
2	2384.600	30.524	14.146	44.670	-9.330	54.000	AVERAGE
3	* 2390.000	30.578	14.287	44.865	-9.135	54.000	AVERAGE

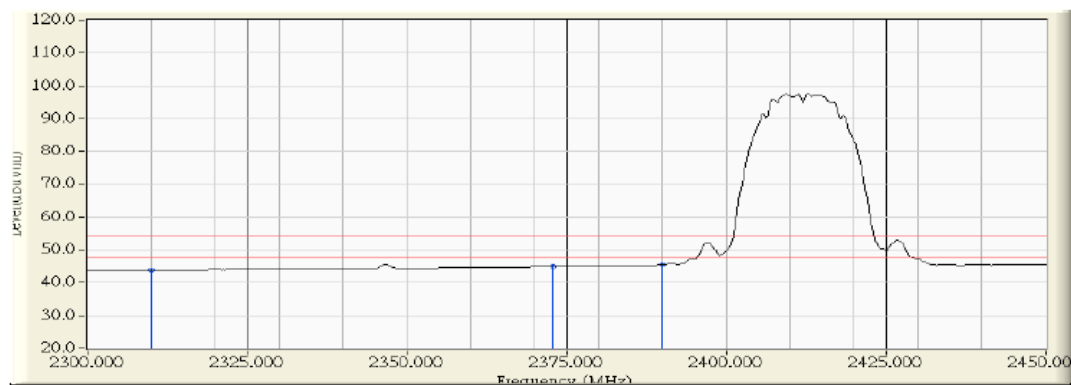
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Polarization:	VERTICAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.868	55.647	-18.353	74.000	PEAK
2	* 2372.900	30.407	28.221	58.628	-15.372	74.000	PEAK
3	2390.000	30.578	25.729	56.307	-17.693	74.000	PEAK

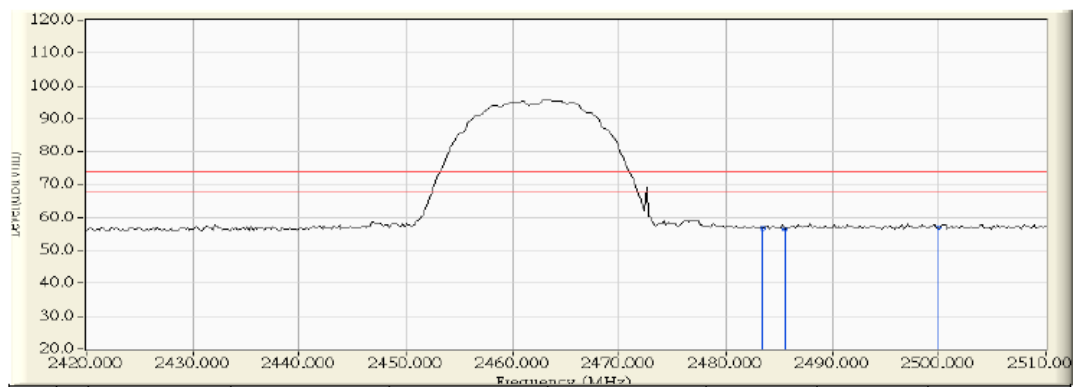


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.115	43.894	-10.106	54.000	AVERAGE
2	2372.900	30.407	14.550	44.957	-9.043	54.000	AVERAGE
3	* 2390.000	30.578	14.836	45.414	-8.586	54.000	AVERAGE

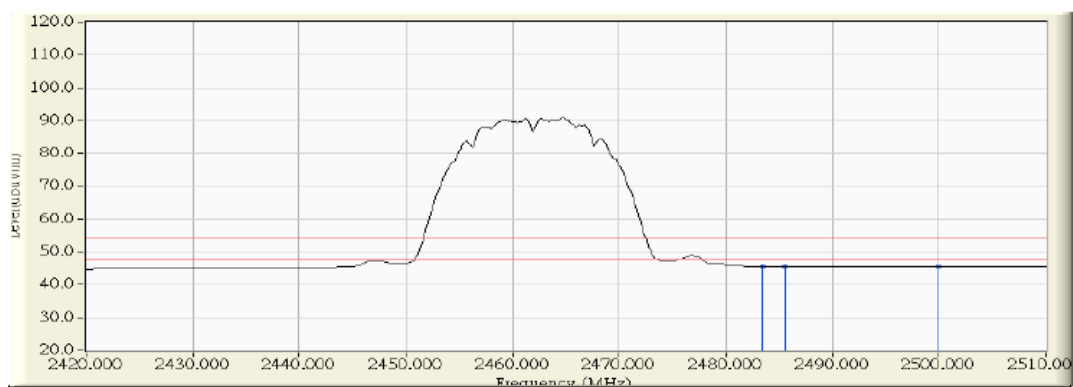
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Polarization:	HORIZONTAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	25.323	56.835	-17.165	74.000	PEAK
2	2485.520	31.532	24.967	56.499	-17.501	74.000	PEAK
3	* 2500.000	31.638	25.359	56.998	-17.002	74.000	PEAK

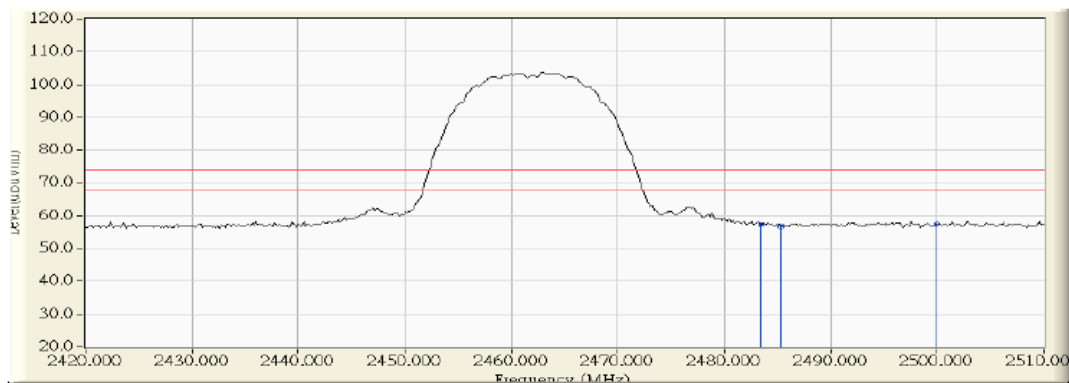


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.007	45.519	-8.481	54.000	AVERAGE
2	2485.520	31.532	13.982	45.514	-8.486	54.000	AVERAGE
3	2500.000	31.638	13.783	45.422	-8.578	54.000	AVERAGE

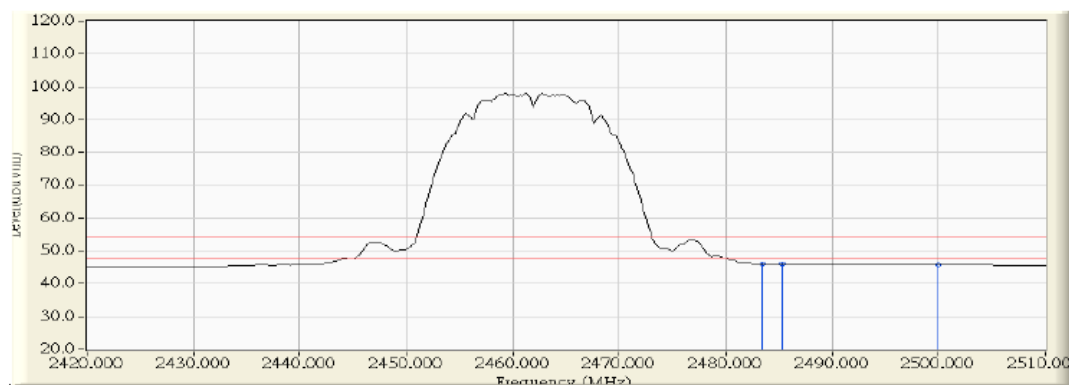
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Polarization:	VERTICAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	25.882	57.394	-16.606	74.000	PEAK
2	2485.340	31.530	25.329	56.859	-17.141	74.000	PEAK
3	* 2500.000	31.638	25.974	57.613	-16.387	74.000	PEAK



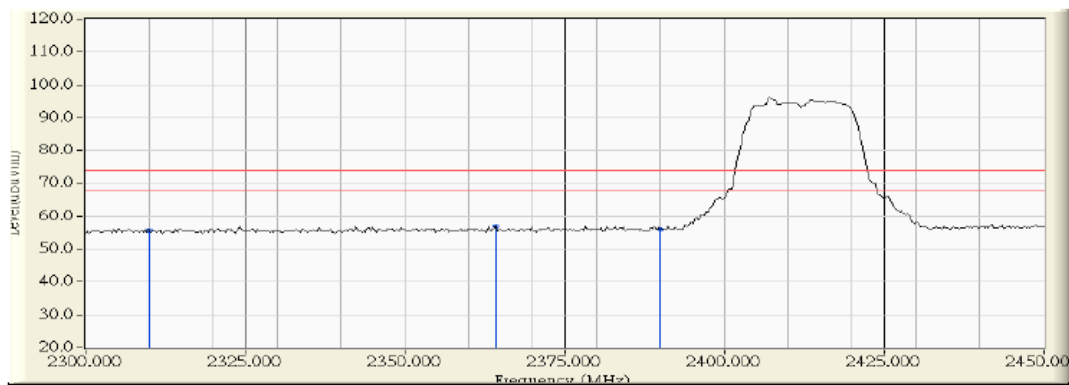
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.487	45.999	-8.001	54.000	AVERAGE
2	2485.350	31.530	14.357	45.887	-8.113	54.000	AVERAGE
3	2500.000	31.638	14.101	45.740	-8.260	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

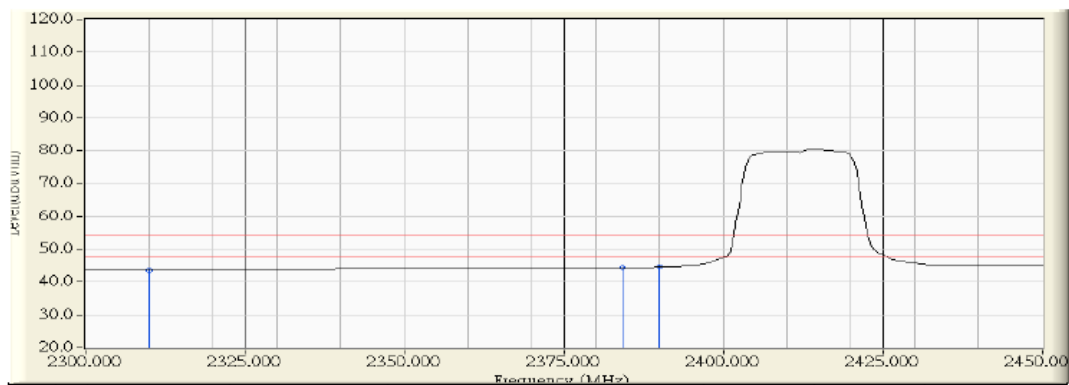
2. The average measurement was not performed when the peak measured data under the limit of average detection.

Radiated test

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Polarization:	HORIZONTAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.928	55.707	-18.293	74.000	PEAK
2	* 2364.200	30.321	26.702	57.022	-16.978	74.000	PEAK
3	2390.000	30.578	25.301	55.879	-18.121	74.000	PEAK

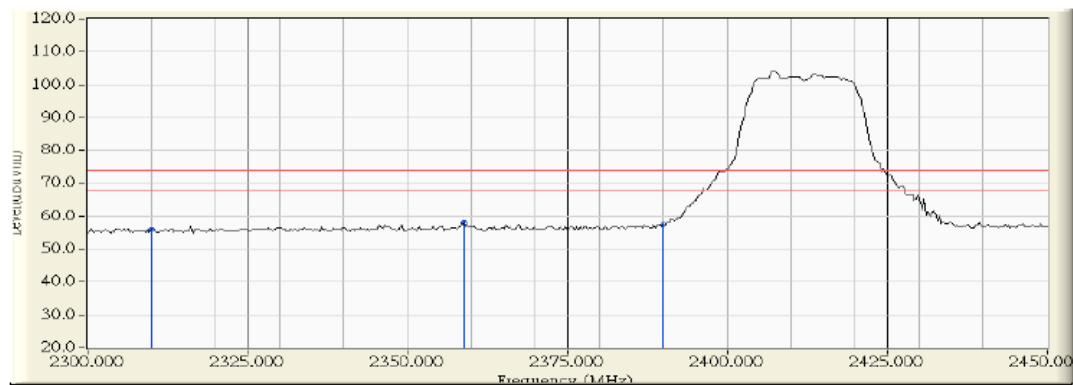


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	13.941	43.720	-10.280	54.000	AVERAGE
2	2384.200	30.520	13.938	44.458	-9.542	54.000	AVERAGE
3	* 2390.000	30.578	13.974	44.552	-9.448	54.000	AVERAGE

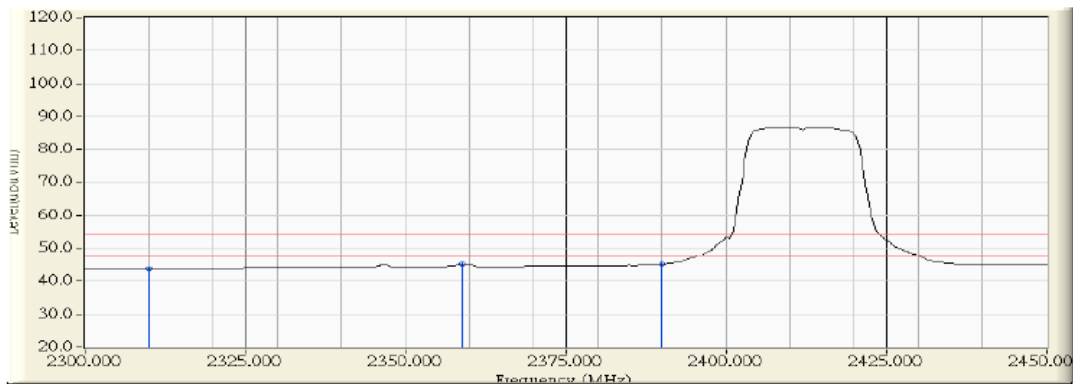
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Polarization:	VERTICAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	26.085	55.864	-18.136	74.000	PEAK
2	* 2358.800	30.266	27.798	58.064	-15.936	74.000	PEAK
3	2390.000	30.578	27.007	57.585	-16.415	74.000	PEAK

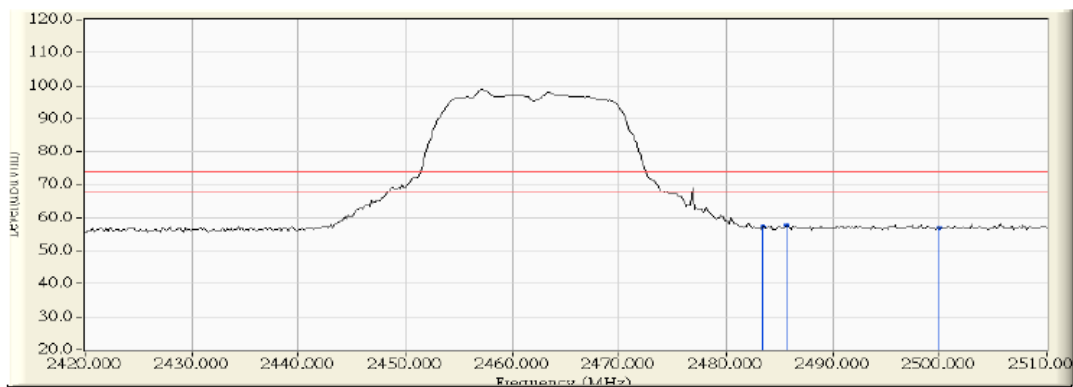


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.031	43.810	-10.190	54.000	AVERAGE
2	2358.800	30.266	14.818	45.084	-8.916	54.000	AVERAGE
3	* 2390.000	30.578	14.606	45.184	-8.816	54.000	AVERAGE

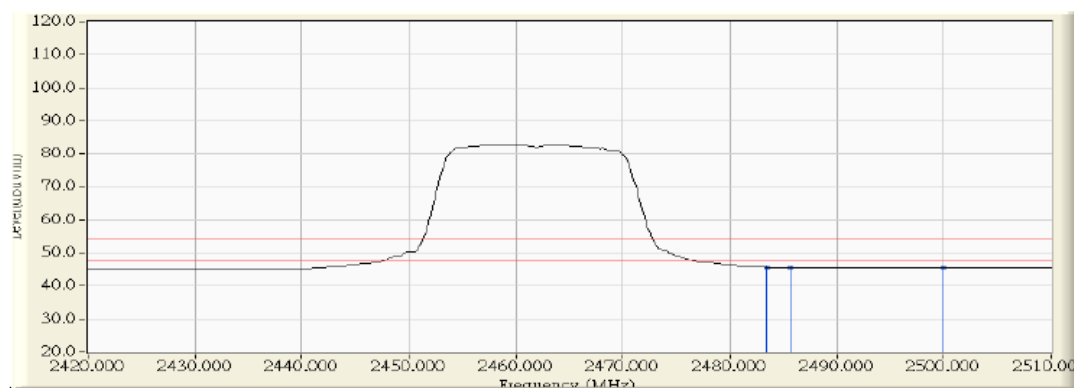
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Polarization:	HORIZONTAL



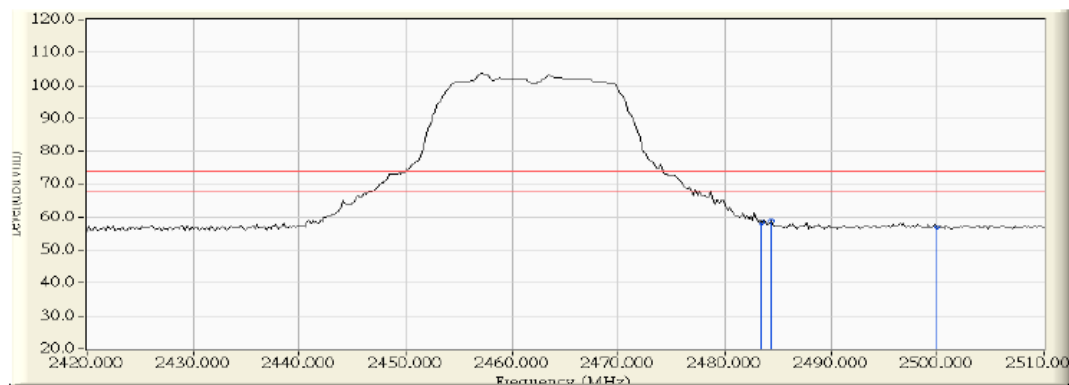
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	25.768	57.280	-16.720	74.000	PEAK
2	* 2485.700	31.533	26.371	57.905	-16.095	74.000	PEAK
3	2500.000	31.638	25.404	57.043	-16.957	74.000	PEAK



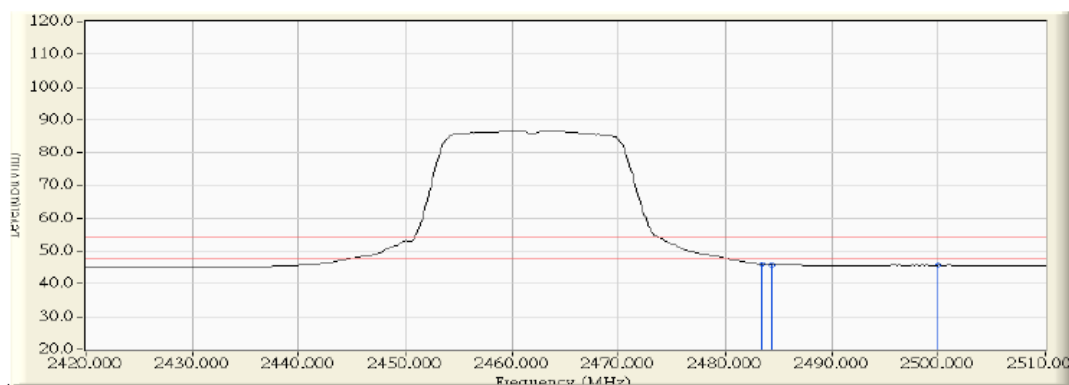
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.060	45.572	-8.428	54.000	AVERAGE
2	2485.700	31.533	13.966	45.500	-8.500	54.000	AVERAGE
3	2500.000	31.638	13.858	45.497	-8.503	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.
 2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Polarization:	VERTICAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	26.925	58.437	-15.563	74.000	PEAK
2	* 2484.440	31.521	27.237	58.758	-15.242	74.000	PEAK
3	2500.000	31.638	25.416	57.055	-16.945	74.000	PEAK



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.503	46.015	-7.985	54.000	AVERAGE
2	2484.440	31.521	14.331	45.852	-8.148	54.000	AVERAGE
3	2500.000	31.638	13.968	45.607	-8.393	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Radiated test

Date of Test: September 7, 2012

Temperature: 25°C

EUT: Handwriting Tablet PC

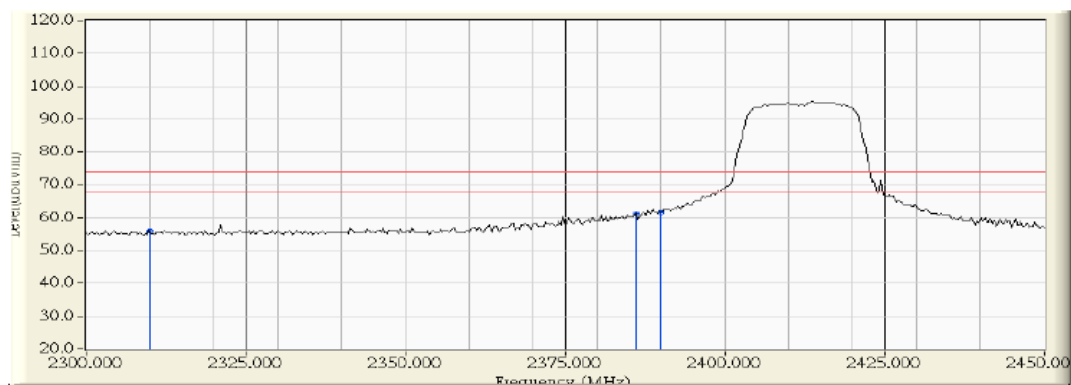
Humidity: 56%

Model No.: WD08HD

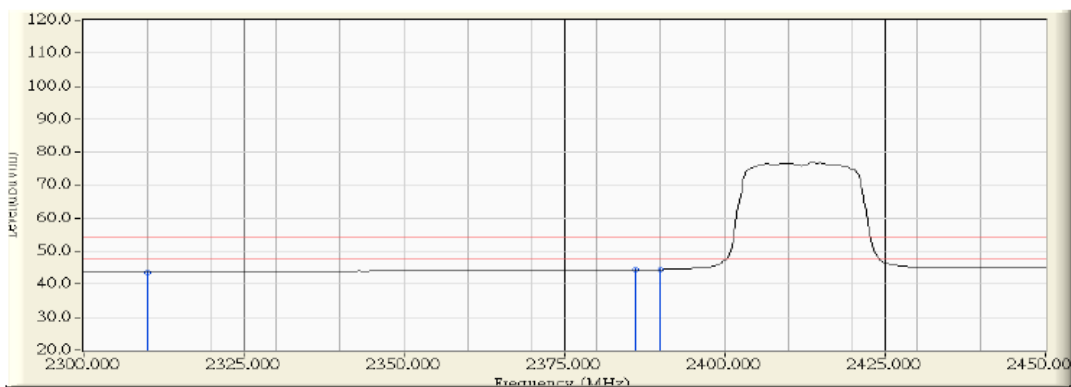
Power Supply: AC 120V/60Hz

Test Mode: 802.11n HT20 Channel Low 2412MHz

Polarization: HORIZONTAL



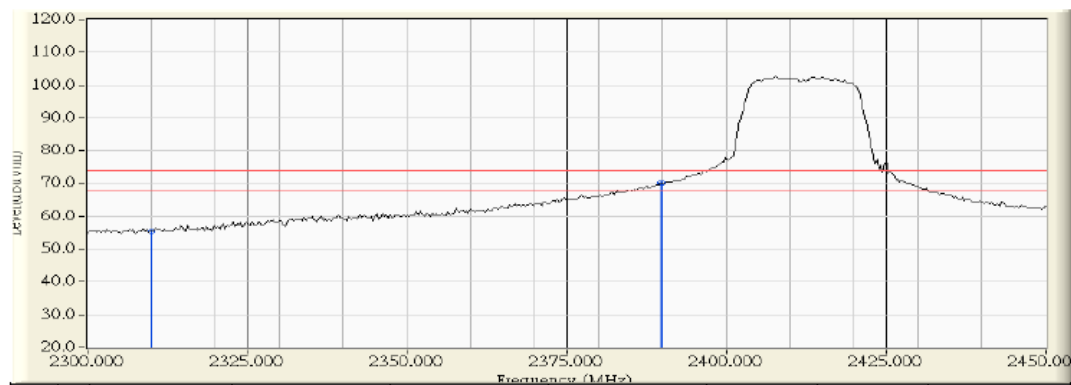
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	26.087	55.866	-18.134	74.000	PEAK
2	2386.100	30.539	30.669	61.208	-12.792	74.000	PEAK
3	* 2390.000	30.578	30.991	61.569	-12.431	74.000	PEAK



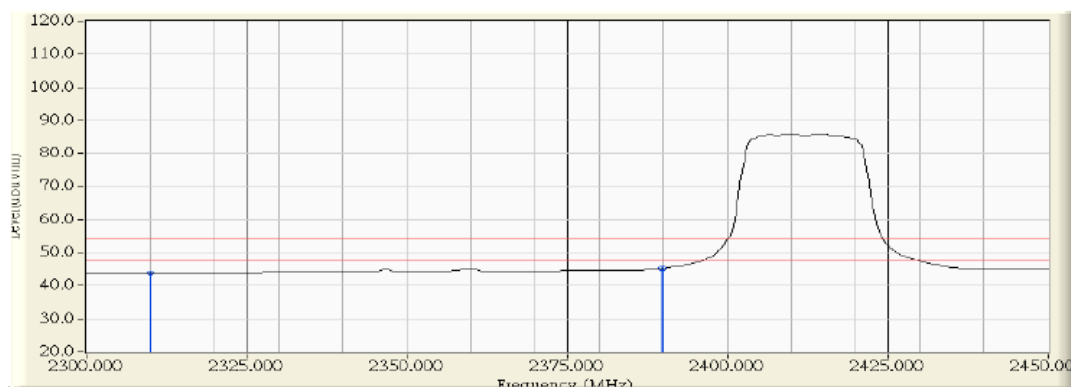
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	13.914	43.693	-10.307	54.000	AVERAGE
2	2386.100	30.539	13.877	44.416	-9.584	54.000	AVERAGE
3	* 2390.000	30.578	13.925	44.503	-9.497	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012Temperature: 25°CEUT: Handwriting Tablet PCHumidity: 56%Model No.: WD08HDPower Supply: AC 120V/60HzTest Mode: 802.11n HT20 Channel Low 2412MHzPolarization: VERTICAL

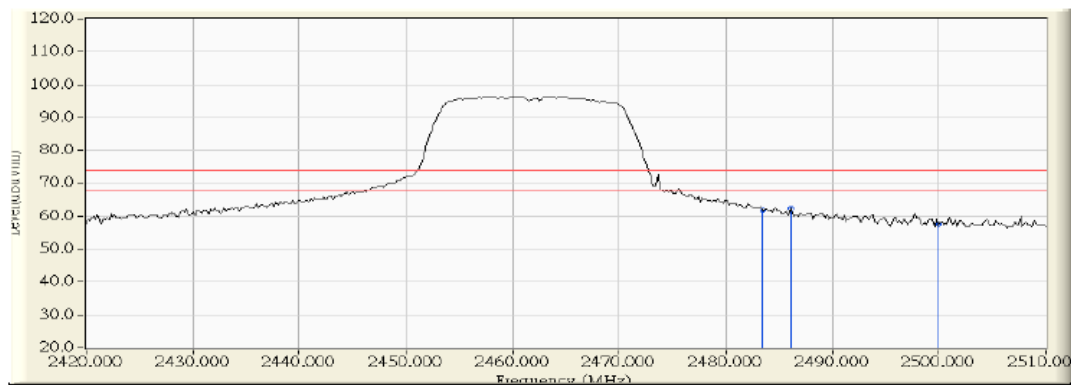
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.647	55.426	-18.574	74.000	PEAK
2	2389.700	30.575	39.612	70.187	-3.813	74.000	PEAK
3	* 2390.000	30.578	39.679	70.257	-3.743	74.000	PEAK



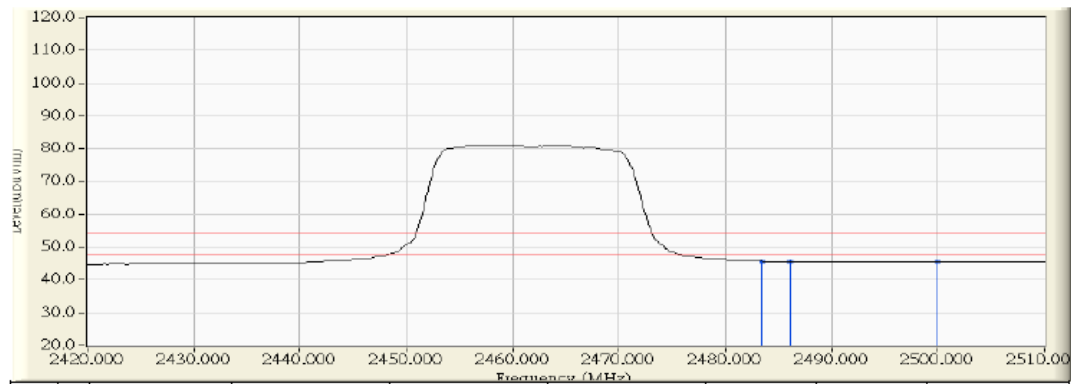
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.010	43.789	-10.211	54.000	AVERAGE
2	2389.700	30.575	14.579	45.154	-8.846	54.000	AVERAGE
3	* 2390.000	30.578	14.646	45.224	-8.776	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012Temperature: 25°CEUT: Handwriting Tablet PCHumidity: 56%Model No.: WD08HDPower Supply: AC 120V/60HzTest Mode: 802.11n HT20 Channel High 2462MHzPolarization: HORIZONTAL

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	30.320	61.832	-12.168	74.000	PEAK
2	* 2486.060	31.538	30.752	62.289	-11.711	74.000	PEAK
3	2500.000	31.638	25.894	57.533	-16.467	74.000	PEAK



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.087	45.599	-8.401	54.000	AVERAGE
2	2486.060	31.538	13.926	45.463	-8.537	54.000	AVERAGE
3	2500.000	31.638	13.743	45.382	-8.618	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012

Temperature: 25°C

EUT: Handwriting Tablet PC

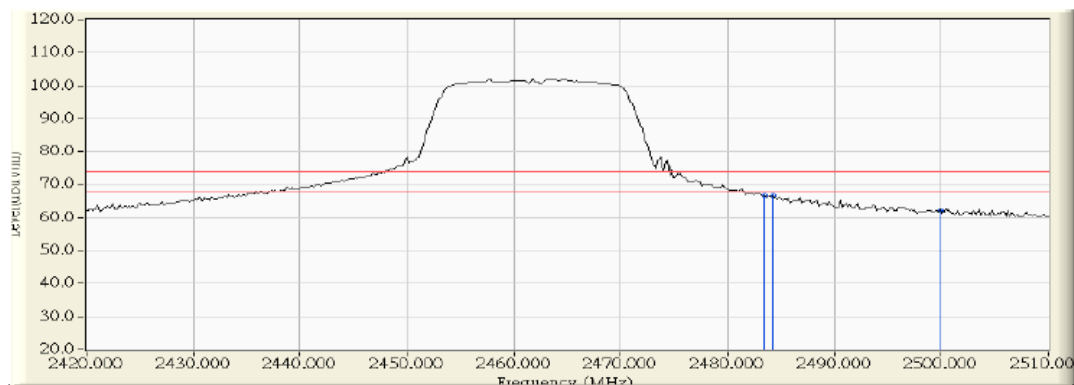
Humidity: 56%

Model No.: WD08HD

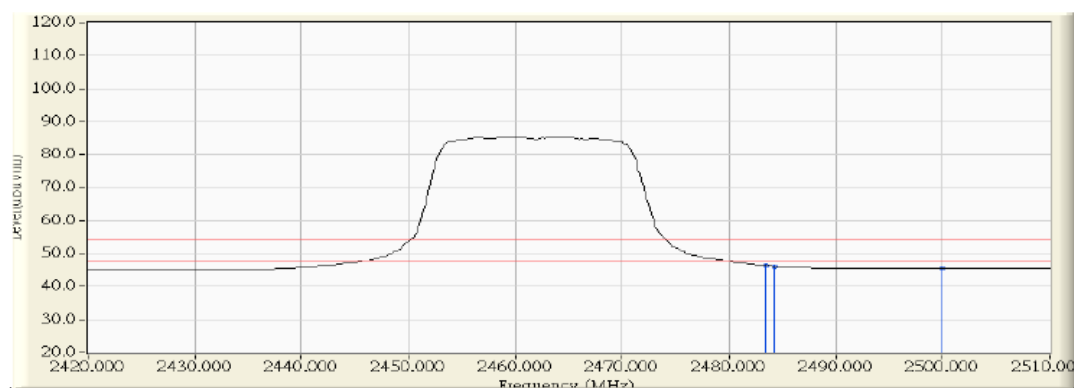
Power Supply: AC 120V/60Hz

Test Mode: 802.11n HT20 Channel High 2462MHz

Polarization: VERTICAL



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	35.036	66.548	-7.452	74.000	PEAK
2	* 2484.260	31.519	35.087	66.606	-7.394	74.000	PEAK
3	2500.000	31.638	30.375	62.014	-11.986	74.000	PEAK

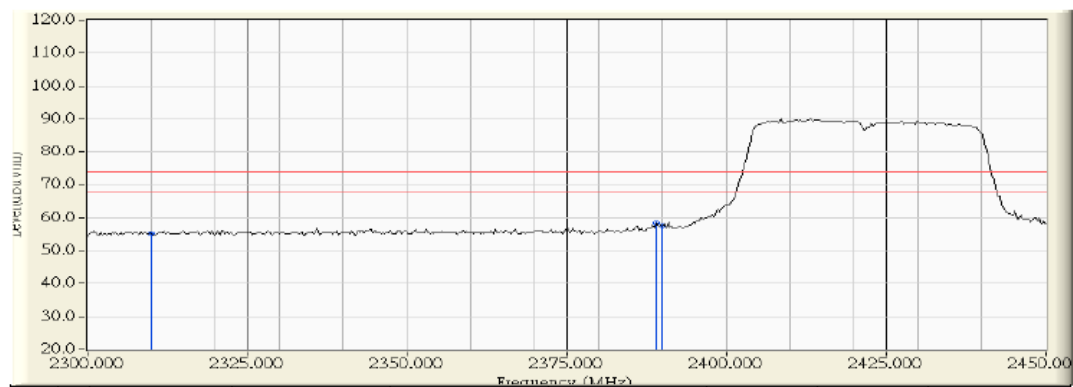


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	14.752	46.264	-7.736	54.000	AVERAGE
2	2484.260	31.519	14.522	46.041	-7.959	54.000	AVERAGE
3	2500.000	31.638	13.736	45.375	-8.625	54.000	AVERAGE

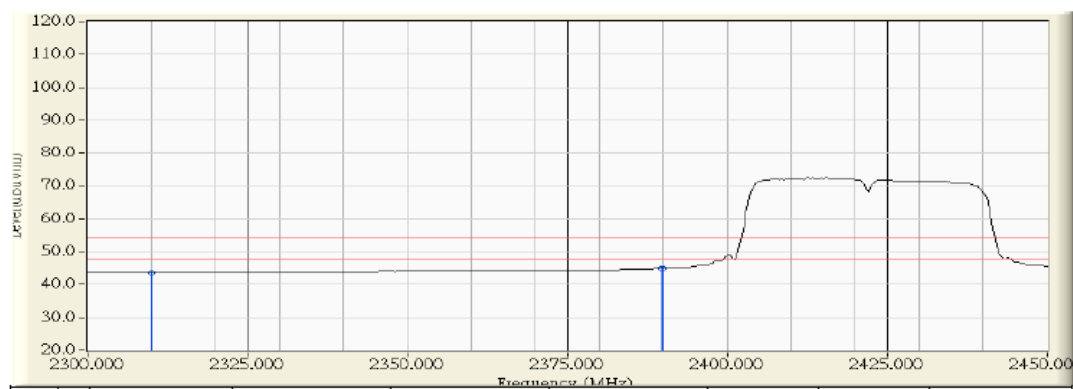
Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test:	September 7, 2012	Temperature:	25°C
EUT:	Handwriting Tablet PC	Humidity:	56%
Model No.:	WD08HD	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n HT40 Channel Low 2422MHz	Polarization:	HORIZONTAL



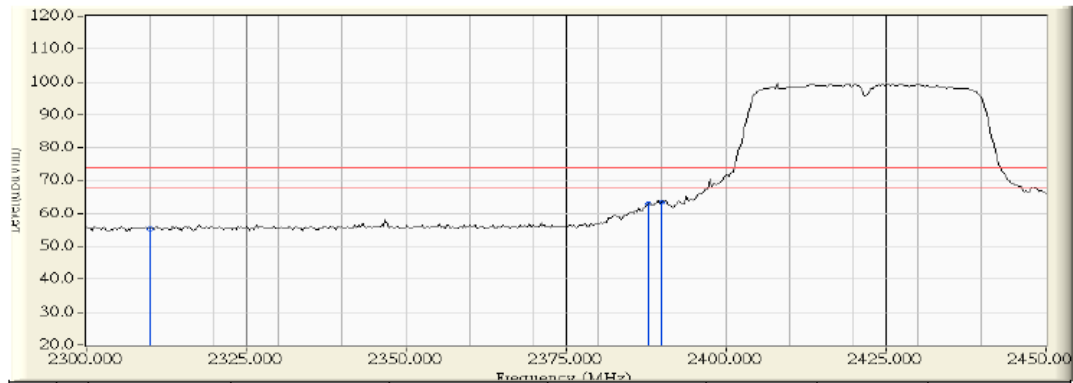
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.434	55.213	-18.787	74.000	PEAK
2	* 2389.100	30.569	27.711	58.280	-15.720	74.000	PEAK
3	2390.000	30.578	26.871	57.449	-16.551	74.000	PEAK



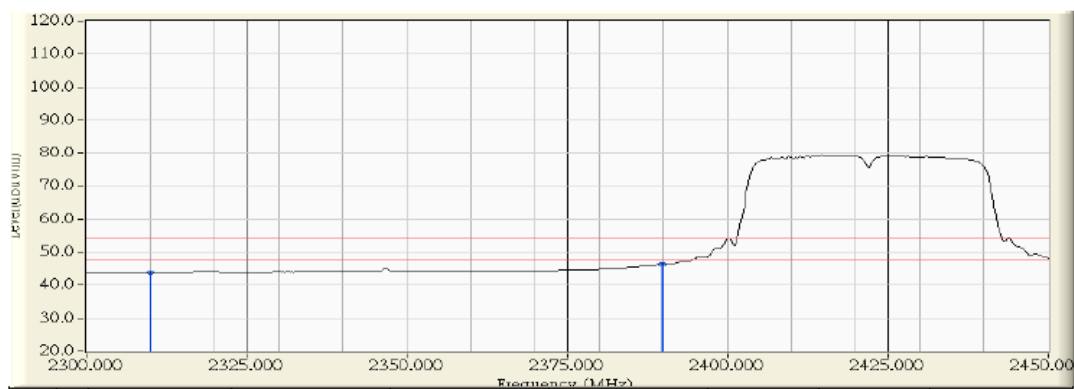
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	13.893	43.672	-10.328	54.000	AVERAGE
2	2389.700	30.575	14.336	44.911	-9.089	54.000	AVERAGE
3	* 2390.000	30.578	14.345	44.923	-9.077	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012Temperature: 25°CEUT: Handwriting Tablet PCHumidity: 56%Model No.: WD08HDPower Supply: AC 120V/60HzTest Mode: 802.11n HT40 Channel Low 2422MHzPolarization: VERTICAL

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	25.558	55.337	-18.663	74.000	PEAK
2	2387.900	30.557	32.406	62.963	-11.037	74.000	PEAK
3	* 2390.000	30.578	32.917	63.495	-10.505	74.000	PEAK



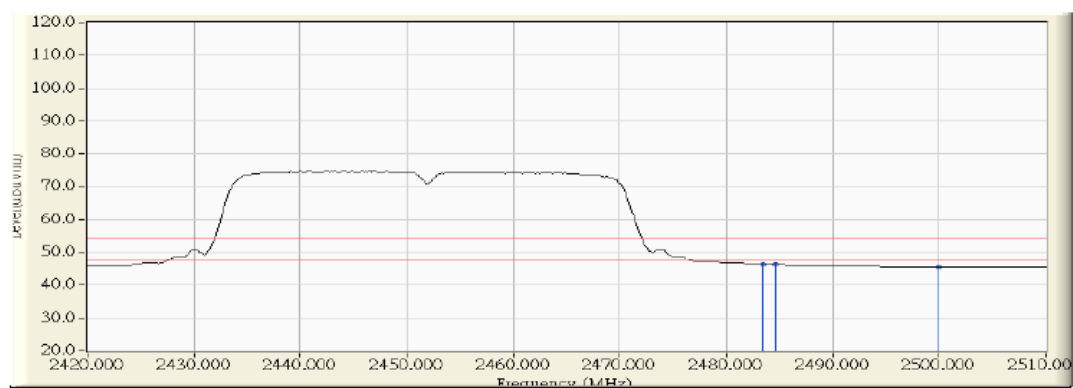
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	29.779	14.019	43.798	-10.202	54.000	AVERAGE
2	* 2389.700	30.575	15.802	46.377	-7.623	54.000	AVERAGE
3	2390.000	30.578	15.789	46.367	-7.633	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012Temperature: 25°CEUT: Handwriting Tablet PCHumidity: 56%Model No.: WD08HDPower Supply: AC 120V/60HzTest Mode: 802.11n HT40 Channel High 2452MHzPolarization: HORIZONTAL

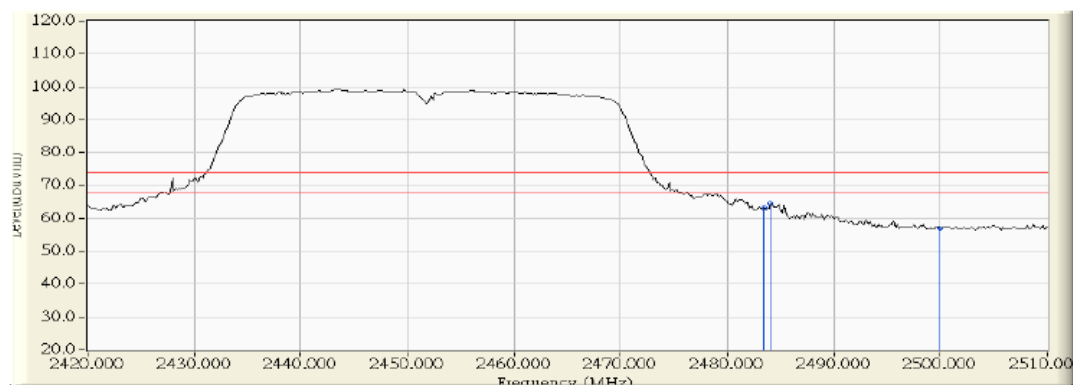
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1	2483.500	31.512	28.182	59.694	-14.306	74.000	PEAK
2	* 2484.620	31.524	29.315	60.838	-13.162	74.000	PEAK
3	2500.000	31.638	25.398	57.037	-16.963	74.000	PEAK



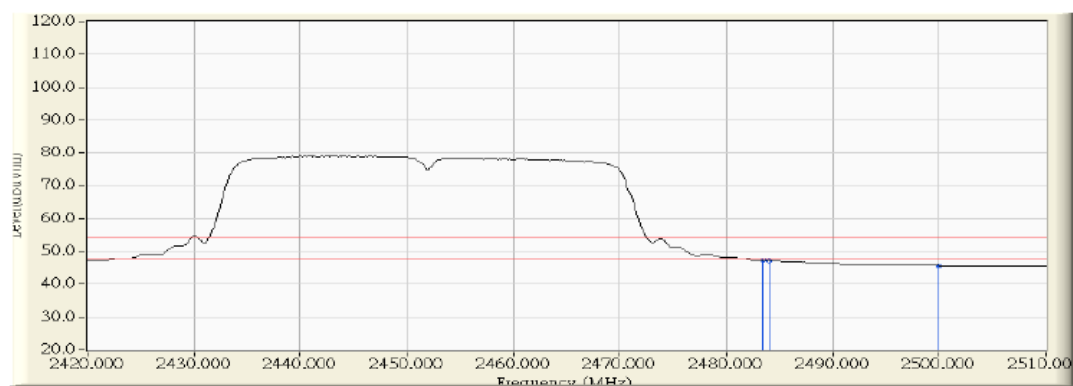
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBUV)	Measure Level (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Detector Type
1	* 2483.500	31.512	14.843	46.355	-7.645	54.000	AVERAGE
2	2484.620	31.524	14.719	46.242	-7.758	54.000	AVERAGE
3	2500.000	31.638	13.862	45.501	-8.499	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

Date of Test: September 7, 2012Temperature: 25°CEUT: Handwriting Tablet PCHumidity: 56%Model No.: WD08HDPower Supply: AC 120V/60HzTest Mode: 802.11n HT40 Channel High 2452MHzPolarization: VERTICAL

	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2483.500	31.512	31.692	63.204	-10.796	74.000	PEAK
2	* 2484.080	31.518	33.073	64.591	-9.409	74.000	PEAK
3	2500.000	31.638	25.286	56.925	-17.075	74.000	PEAK



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	* 2483.500	31.512	15.708	47.220	-6.780	54.000	AVERAGE
2	2484.080	31.518	15.651	47.169	-6.831	54.000	AVERAGE
3	2500.000	31.638	13.953	45.592	-8.408	54.000	AVERAGE

Note: 1. Measurement Level = Reading Level + Correct Factor.

2. The average measurement was not performed when the peak measured data under the limit of average detection.

13. §15.247(E) - Power Spectral Density

13.1. Test Equipment

Please refer to Section 4 this report.

13.2. Test Procedure

- 1, Set EUT in the transmitting mode.
- 2, Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3, Set the spectrum analyzer as RBW=3KHz, VBW=10KHz, Span=1.5MHz, Sweep=500S.
- 4, Record the max. reading
- 5, Repeat the above procedure until the measurements for all frequencies are completed.

13.3. Applicable Standard

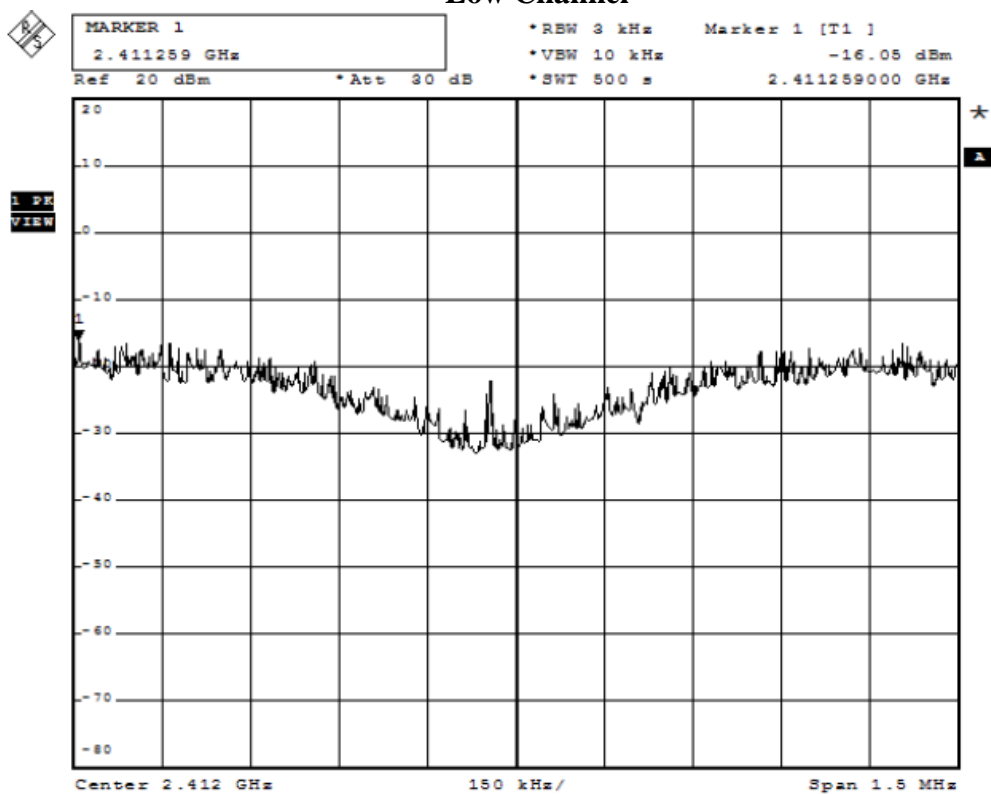
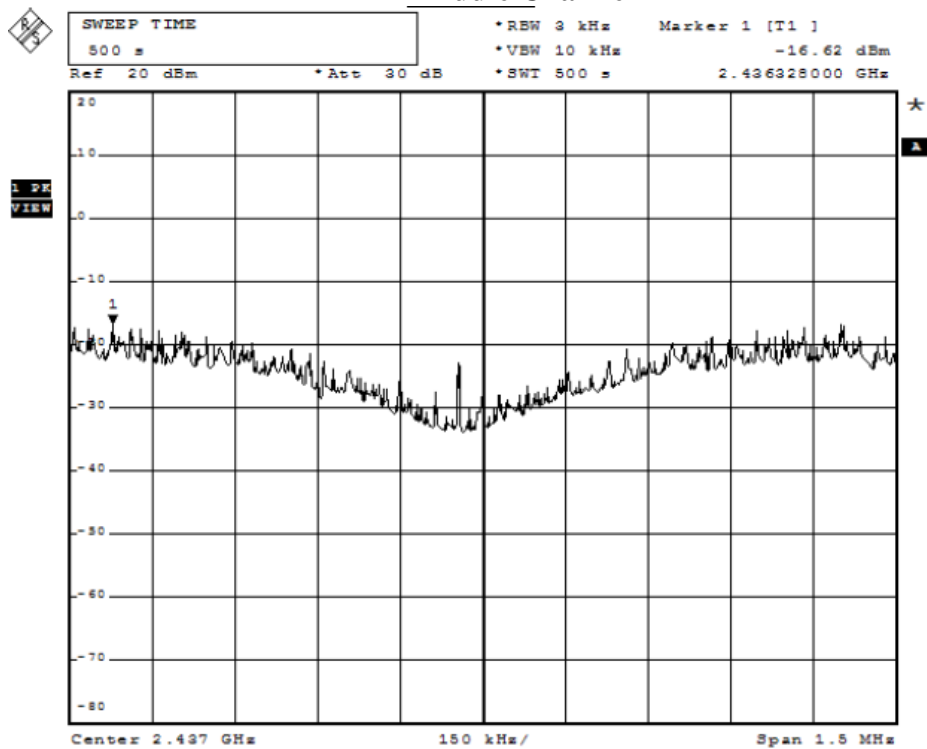
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

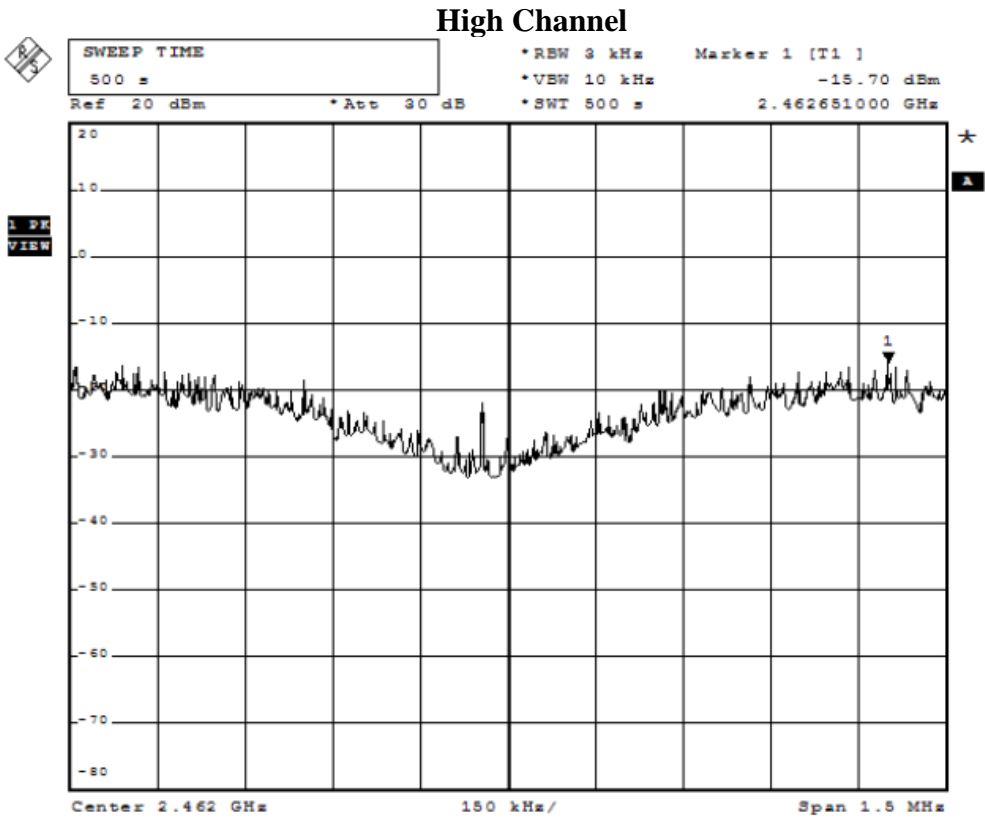
13.4. Test Result

PASS

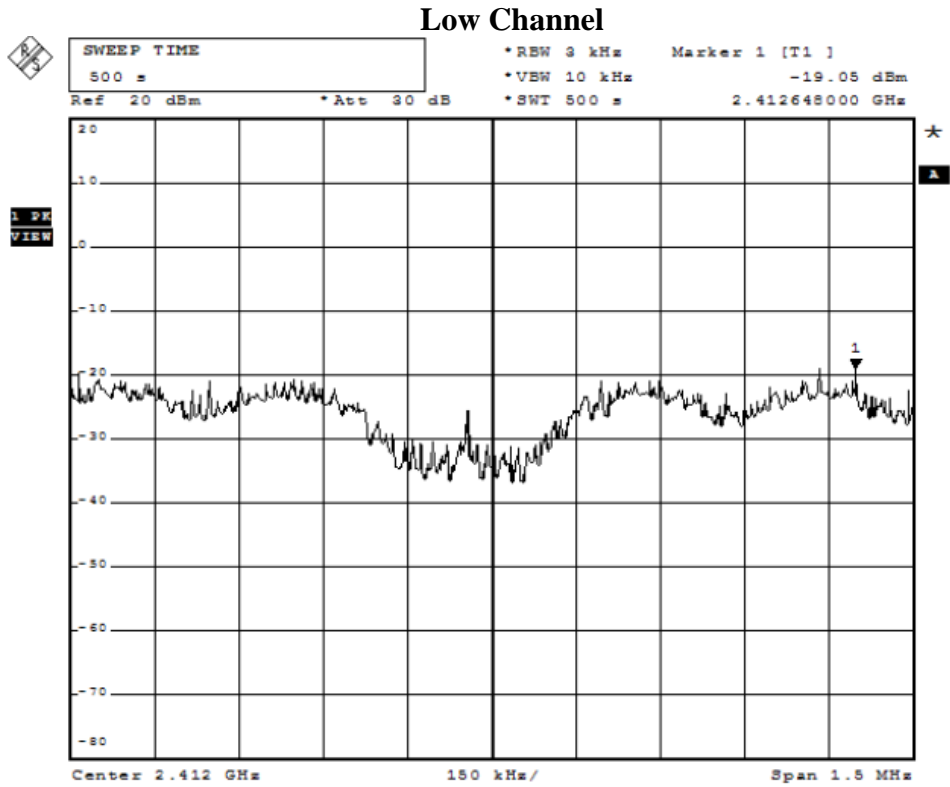
Channel Frequency (MHz)	Data Rate (Mbps)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	RESULT
802.11b Mode				
2412	1	-16.05	8	Compliant
2437	1	-16.62	8	Compliant
2462	1	-15.72	8	Compliant
802.11g Mode				
2412	6	-19.05	8	Compliant
2437	6	-20.67	8	Compliant
2462	6	-21.38	8	Compliant
802.11n (20M) Mode				
2412	6	-23.97	8	Compliant
2437	6	-20.35	8	Compliant
2462	6	-21.37	8	Compliant
802.11n (40M) Mode				
2412	6	-24.46	8	Compliant
2437	6	-25.13	8	Compliant
2462	6	-25.20	8	Compliant

802.11b Mode:

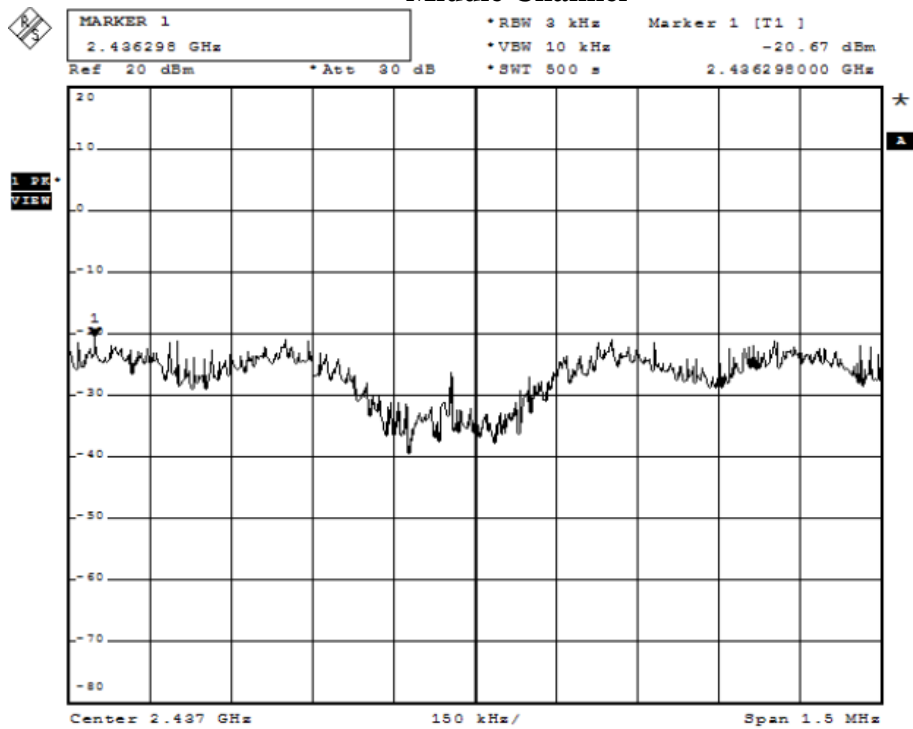
Low Channel**Middle Channel**



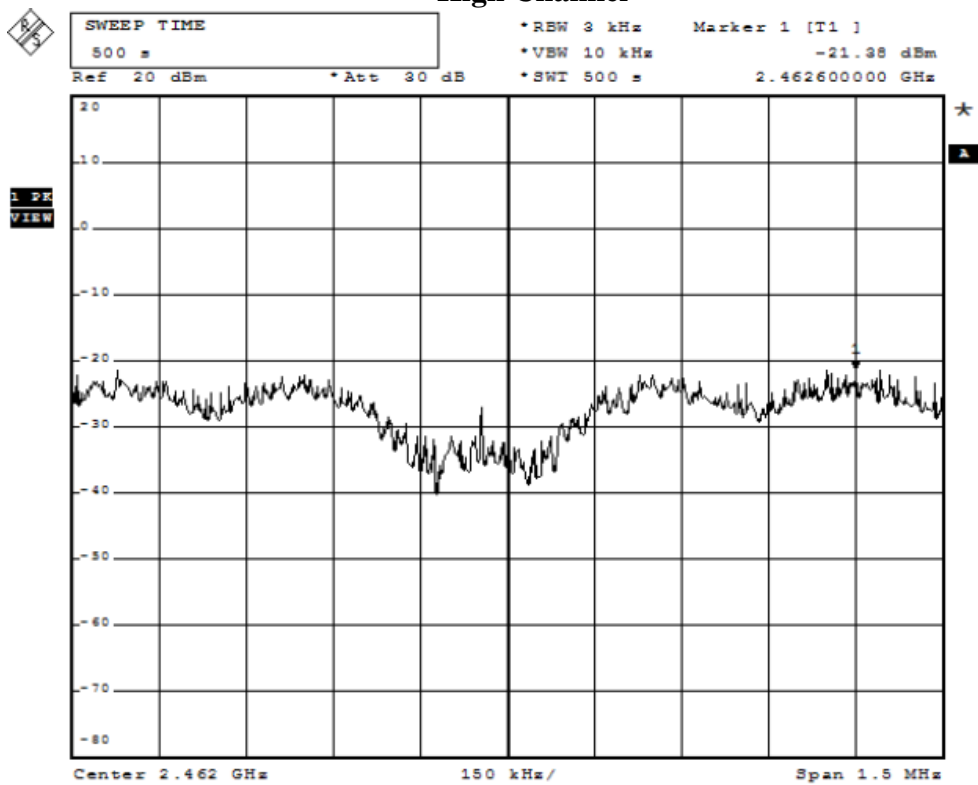
802.11g Mode:



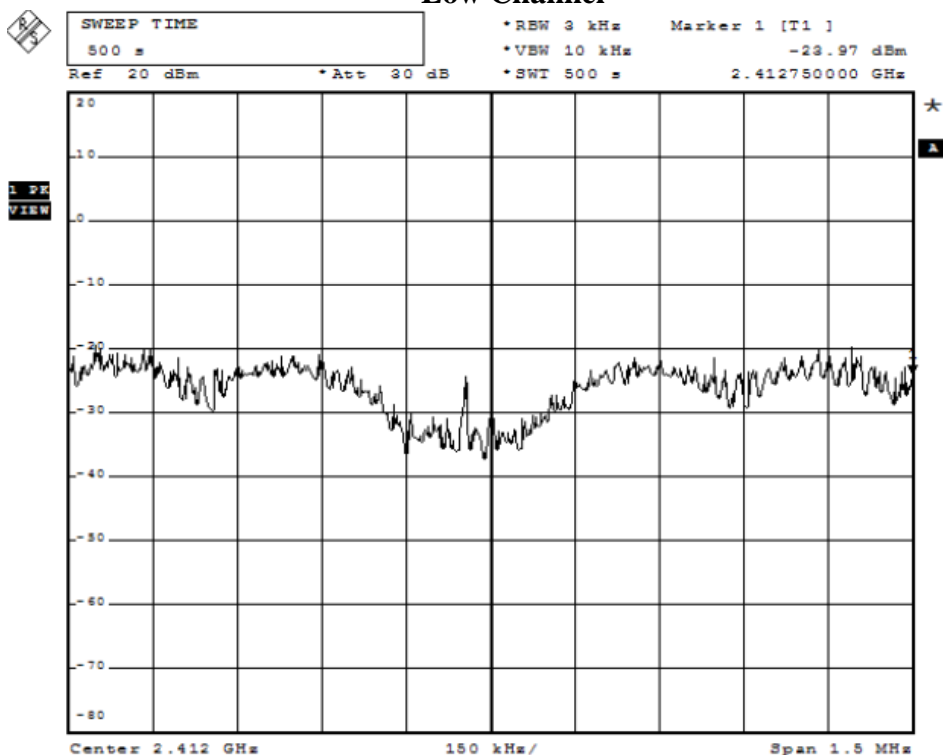
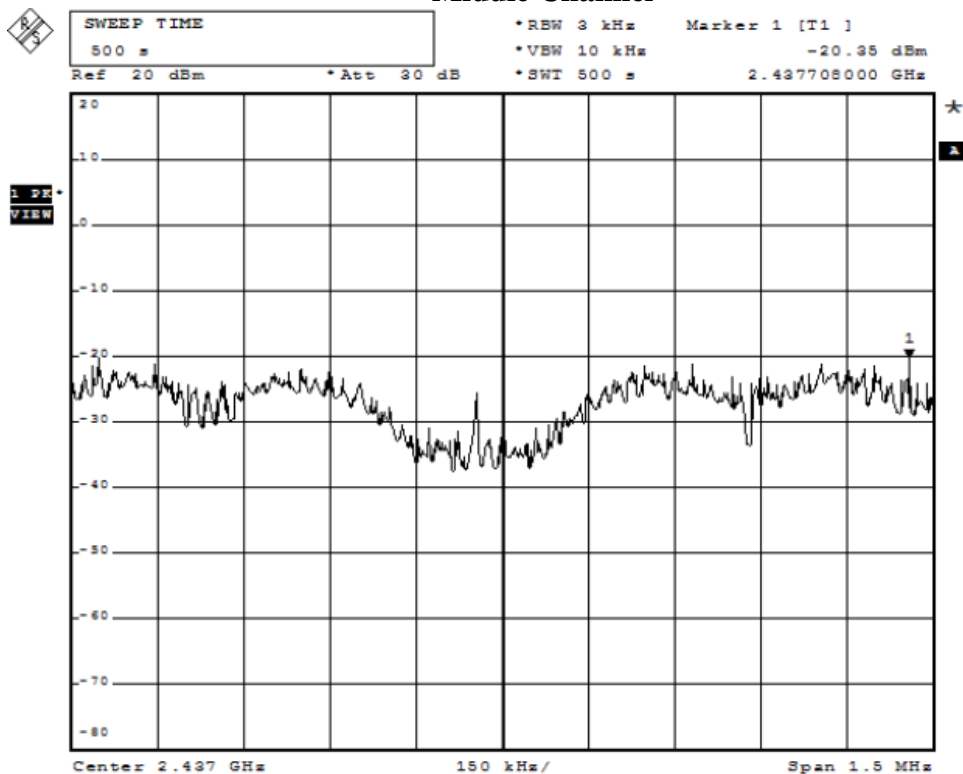
Middle Channel

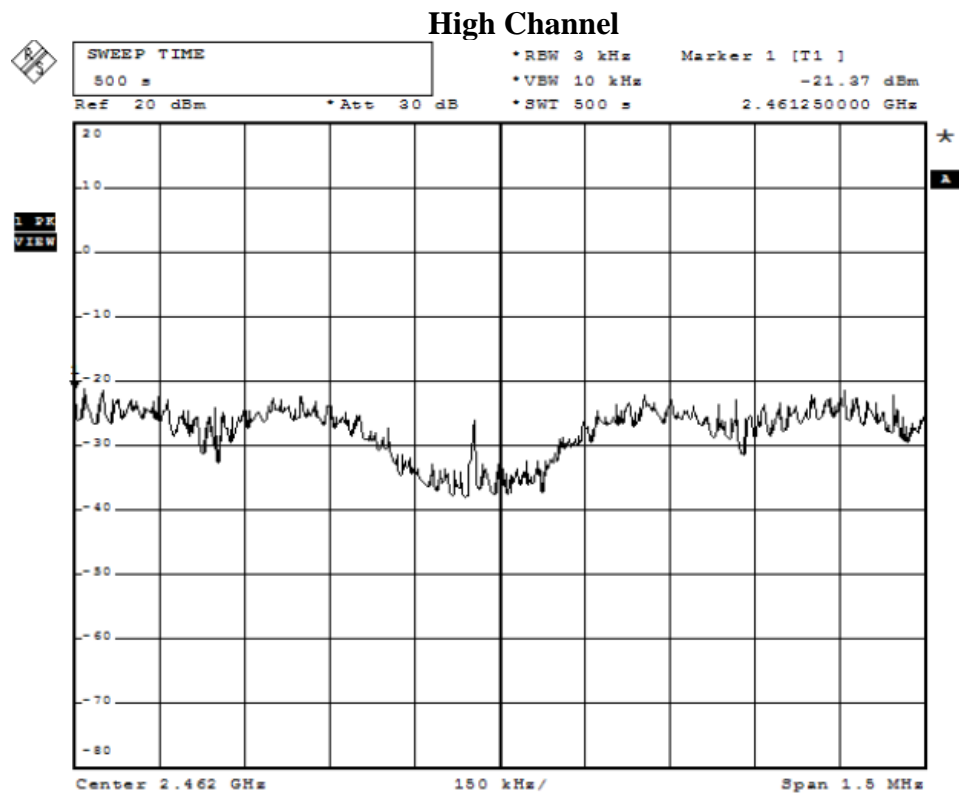


High Channel

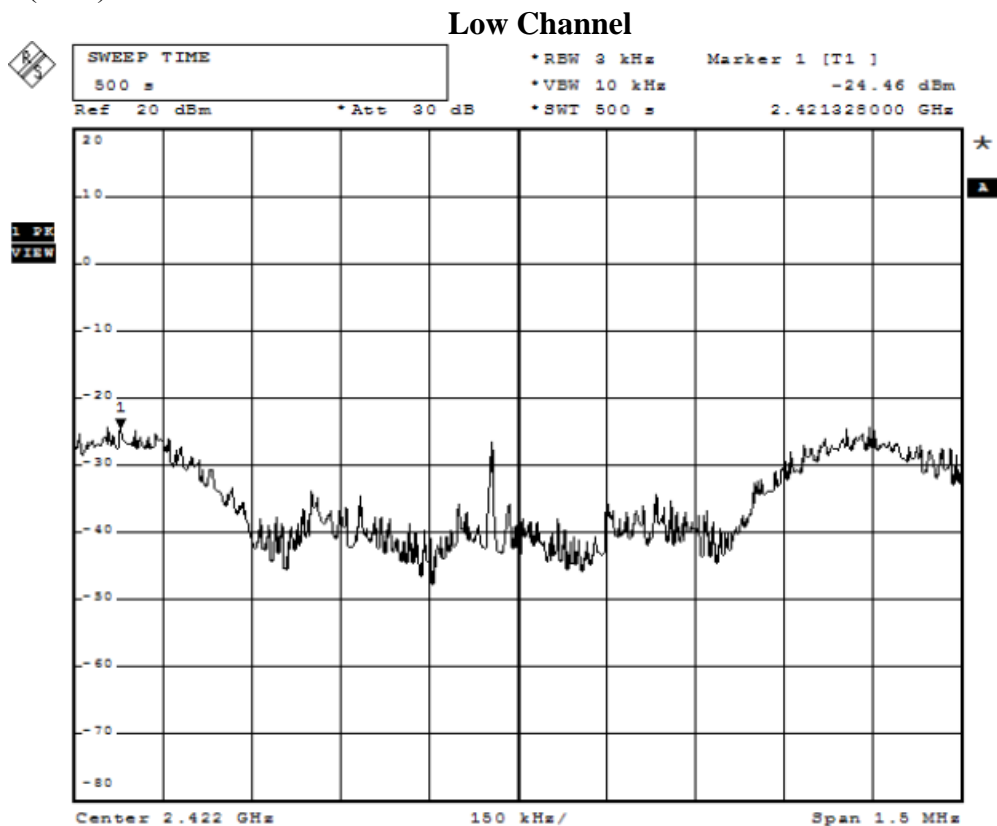


802.11n (20M) Mode:

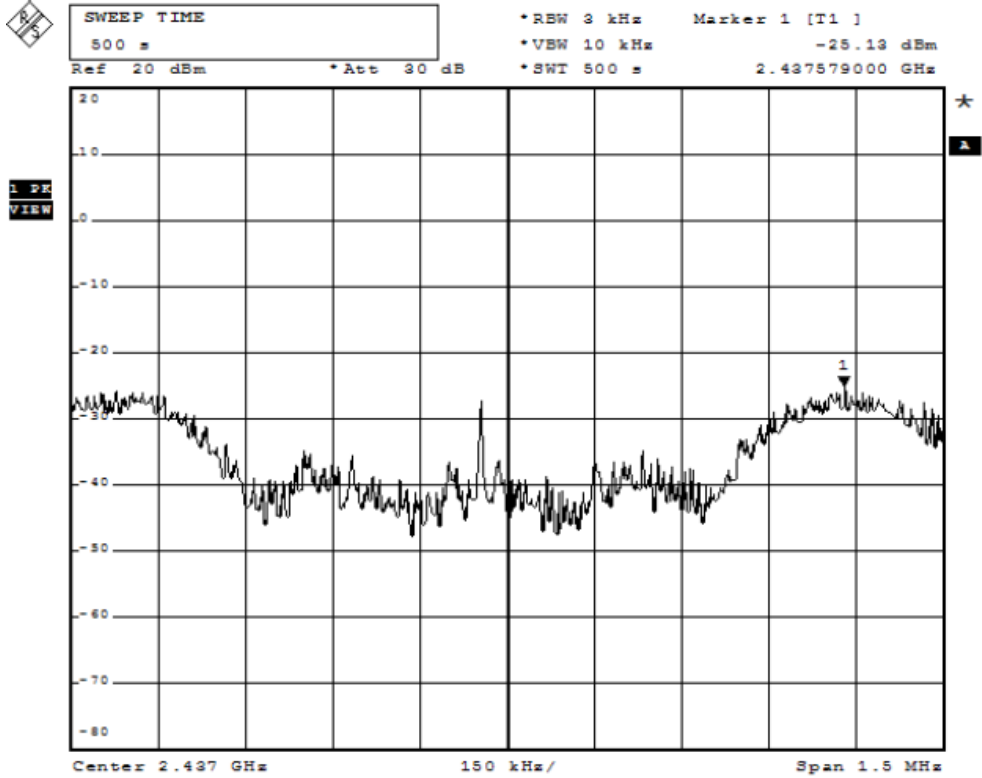
Low Channel**Middle Channel**



802.11n (40M) Mode:



Middle Channel



High Channel

