



Test Report

Product Name : 802.11n Wireless LAN Module

Model No. : N611

FCC ID : I88N611

Applicant : ZyXEL Communication Corporation

Address : No.6, Innovation Rd II, Science-Based Industrial Park,
Hsin-Chu, Taiwan

Date of Receipt : 2008/08/12

Issued Date : 2008/09/08

Report No. : 088S063-RF-US-P05V01

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.


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Test Report Certification


Issued Date : 2008/09/08
 Report No. : 088S063-RF-US-P05V01




Product Name : 802.11n Wireless LAN Module
 Applicant : ZyXEL Communication Corporation
 Address : No.6, Innovation Rd II, Science-Based Industrial Park,
 Hsin-Chu, Taiwan
 Manufacturer : ZyXEL Communication (Wuxi) Corp.
 Address : Wuxi New District 60#-E Jiangsu PRC
 Model No. : N611
 FCC ID : I88N611
 EUT Voltage : DC 3.3V
 Trade Name : ZyXEL
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C: 2007
 ANSI C63.4: 2003
 Test Result : Complied
 Performed Location : SuZhou EMC laboratory
 No.99 Hongye Rd., Suzhou Industrial Park Loufeng
 Hi-Tech Development Zone., SuZhou, China
 TEL: +86-512-6251-5088 / FAX: +86-512-6251-5098
 FCC Registration Number: 800392

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Laboratory Information

We , **Quietek Corporation**, are an independent EMC and safety consultancy that was established the whole facility in our laboratories. The test facility has been accredited by the following accreditation Bodies in compliance with ISO 17025, EN 45001 and Guide 25:

Taiwan R.O.C.	: BSMI, DGT, CNLA
Germany	: TUV Rheinland
Norway	: Nemko, DNV
USA	: FCC, NVLAP
Japan	: VCCI

The related certificate for our laboratories about the test site and management system can be downloaded from Quietek Corporation's Web Site : <http://tw.quietek.com/modules/myalbum/>
 The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>
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1. General Information

1.1. EUT Description

Product Name	802.11n Wireless LAN Module
Trade Name	ZyXEL
Model No.	N611
FCC ID	I88N611

WLAN	ZyXEL/N611
Working Voltage	DC 3.3V
Frequency Range	802.11b/g/n(20MHz): 2412 - 2462 MHz 802.11n(40MHz): 2422 - 2452 MHz
Channel Number	802.11b/g/n(20MHz): 11 802.11n(40MHz): 7
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11 Mbps 802.11g: 6/9/12/18/24/36/48/54 Mbps 802.11n: up to 135 Mbps
Channel Control	Auto
Antenna Type	Dipole
Antenna Gain	Refer to the "Antenna List"

802.11b/g/n(20MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz	04	2427 MHz
05	2432 MHz	06	2437 MHz	07	2442 MHz	08	2447 MHz
09	2452 MHz	10	2457 MHz	11	2462 MHz	N/A	N/A

802.11n(40MHz) Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
03	2422 MHz	04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz	N/A	N/A

802.11b/g/n Antenna List

Part No.	Manufacturer	Fixed Model	Color	Peak Gain
AN2400-0314RS	CORTEC	DETACHABLE	WHITE	2.4GHz: 2.0dBi
C034-510514-A	WHA YU	DETACHABLE	BLACK	2.4GHz: 5.0dBi
AN2400-2478GX	CORTEC	FIXED	WHITE	2.4GHz: 2.0dBi
C034-510679-A	WHA YU	DETACHABLE	WHITE	2.4GHz: 2.0dBi
C034-510514-A	WHA YU	FIXED	BLACK	2.4GHz: 5.0dBi
C034-510683-A	WHA YU	FIXED	WHITE	2.4GHz: 2.95dBi

Note:

The bold one shown above is the test antenna.

1.2. Mode of Operation

Quietek has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by 802.11b (DAC0, DAC1)
Mode 2: Transmit by 802.11g (DAC0, DAC1)
Mode 3: Transmit by 802.11n (20MHz) (DAC0, DAC1, DAC0 and DAC1)
Mode 4: Transmit by 802.11n (40MHz) (DAC0, DAC1, DAC0 and DAC1)

Note:

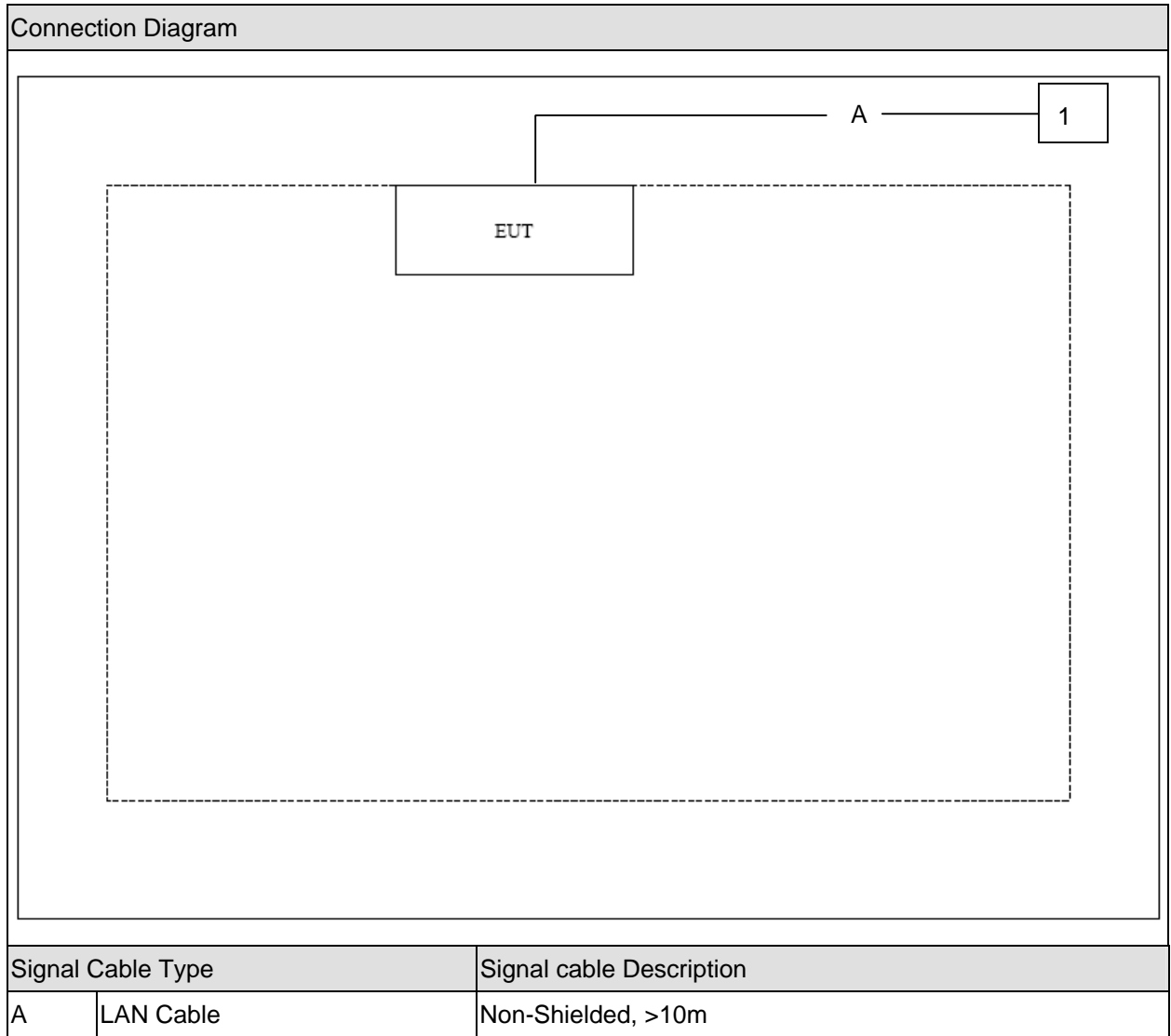
1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook	DELL	PP19L	JH097 A01	Power by adapter

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1	Setup the EUT and simulators as shown on above
2	Turn on the power of equipment.
3	Execute the software "RT2880QA", set the test mode and test channel, and then start to test.

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
 Deviations from the test standards as below description:

Performed Test Item	Normative References	Test Performed	Deviation
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.207	Yes	No
Radiated Emission	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.209	Yes	No
RF Antenna Conducted Spurious	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(d)	Yes	No
Radiated Emission Band Edge	FCC CFR Title 47 Part 15 Subpart C: 2007 15.247(d)	Yes	No
Operation Frequency Range of 20dB Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 15.215(c)	Yes	No
Occupied Bandwidth	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(a)(2)	Yes	No
Power Output	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(b)(3)	Yes	No
Power Spectral Density	FCC CFR Title 47 Part 15 Subpart C: 2007 Section 15.247(e)	Yes	No

2.2. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	21
Humidity (%RH)	25-75	50
Barometric pressure (mbar)	860-1060	950-1000

3. Conducted Emission

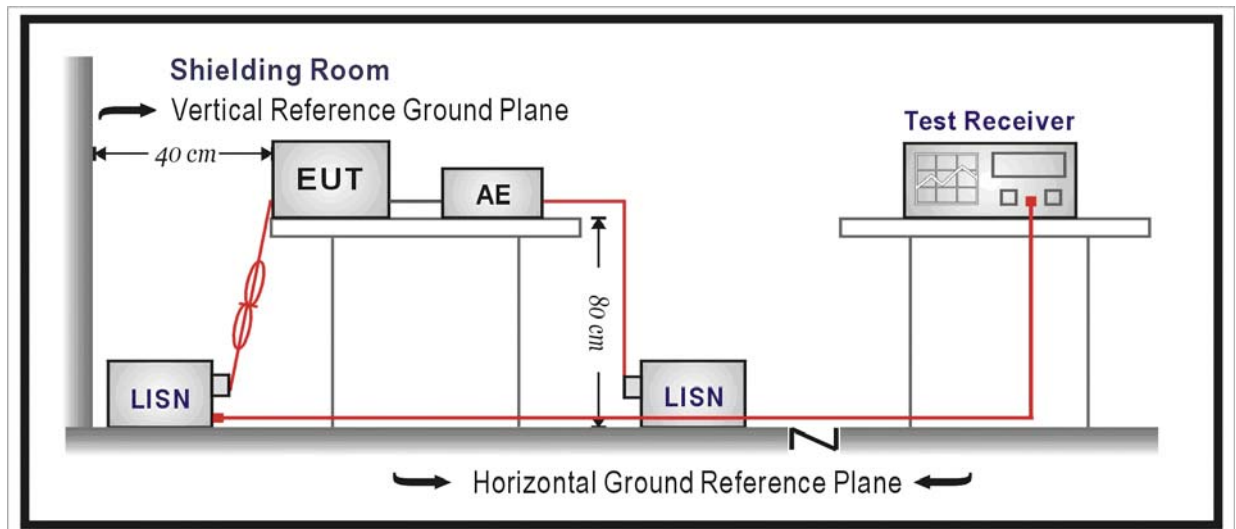
3.1. Test Equipment

Conducted Emission / SR-1

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2008/06/28
Two-Line V-Network	R&S	ENV216	100013	2008/06/28
Two-Line V-Network	R&S	ENV216	100014	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2007/11/25
50ohm Termination	SHX	TF2	07081401	2007/10/19
Coaxial Cable	Luthi	RG214	519358	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH004	2008/03/31

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

3.2. Test Setup



3.3. Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

3.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

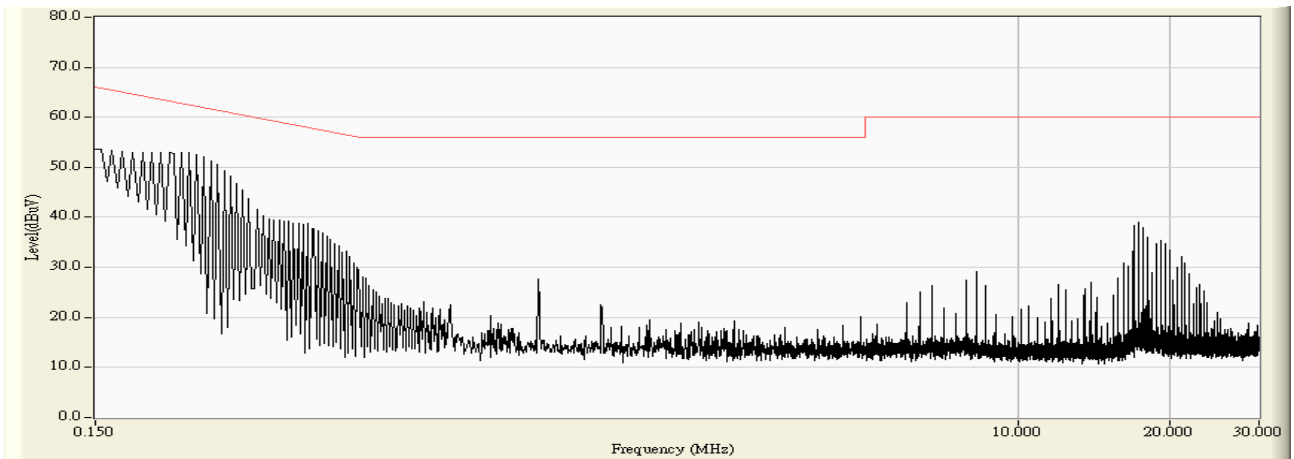
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Uncertainty

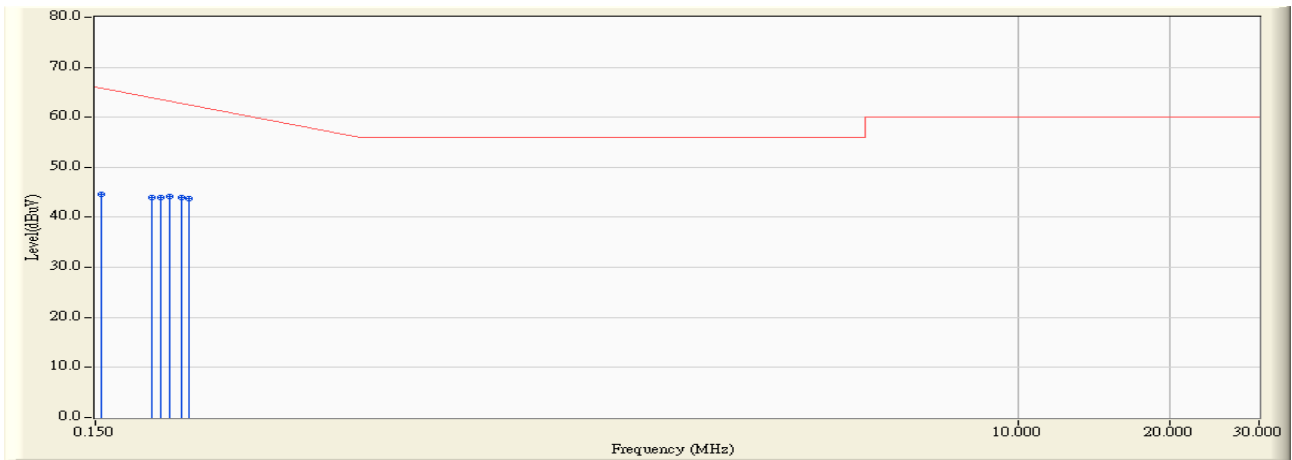
The measurement uncertainty is defined as ± 2.02 dB

3.6. Test Result

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

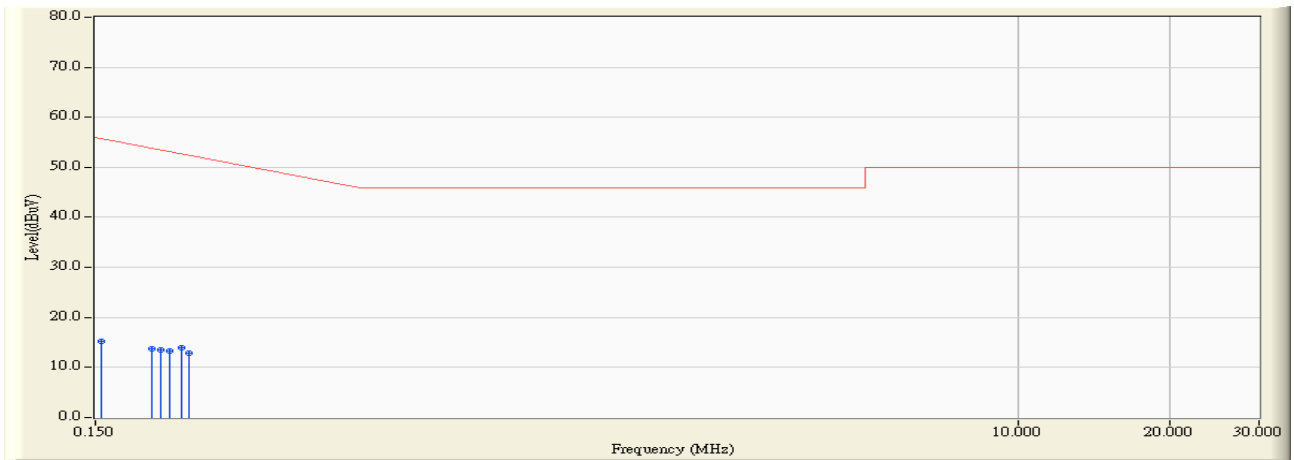


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	0.154	10.187	34.400	44.587	-21.299	65.886	QUASIPeAK
2	0.194	9.606	34.300	43.906	-20.837	64.743	QUASIPeAK
3	0.202	9.553	34.500	44.053	-20.461	64.514	QUASIPeAK
4	0.210	9.500	34.600	44.100	-20.186	64.286	QUASIPeAK
5	0.222	9.442	34.600	44.042	-19.901	63.943	QUASIPeAK
6	*	9.447	34.400	43.847	-19.867	63.714	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line1
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

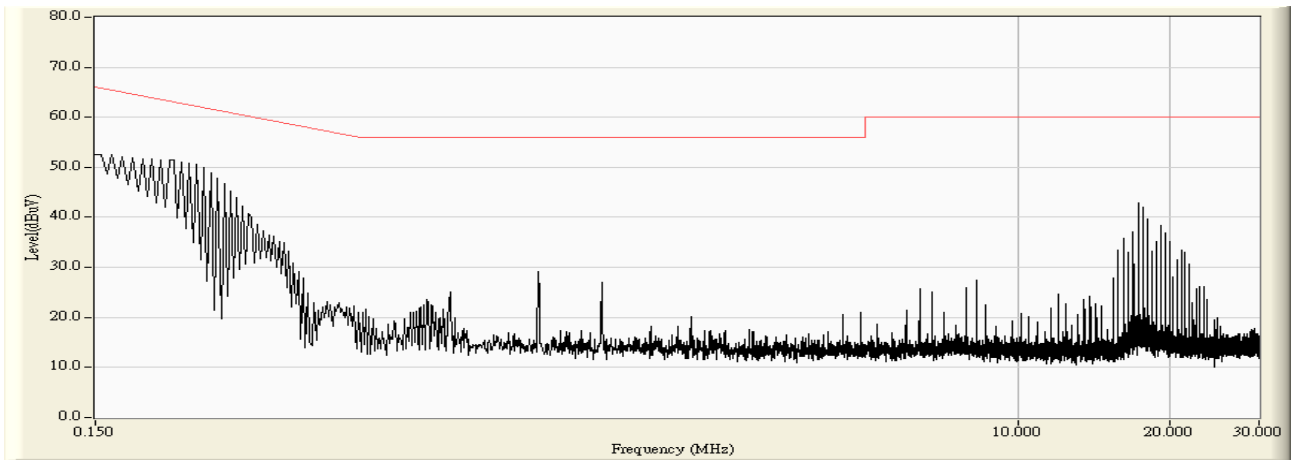


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.154	10.187	5.100	15.287	-40.599	55.886	AVERAGE
2		0.194	9.606	4.200	13.806	-40.937	54.743	AVERAGE
3		0.202	9.553	4.000	13.553	-40.961	54.514	AVERAGE
4		0.210	9.500	3.900	13.400	-40.886	54.286	AVERAGE
5	*	0.222	9.442	4.600	14.042	-39.901	53.943	AVERAGE
6		0.230	9.447	3.400	12.847	-40.867	53.714	AVERAGE

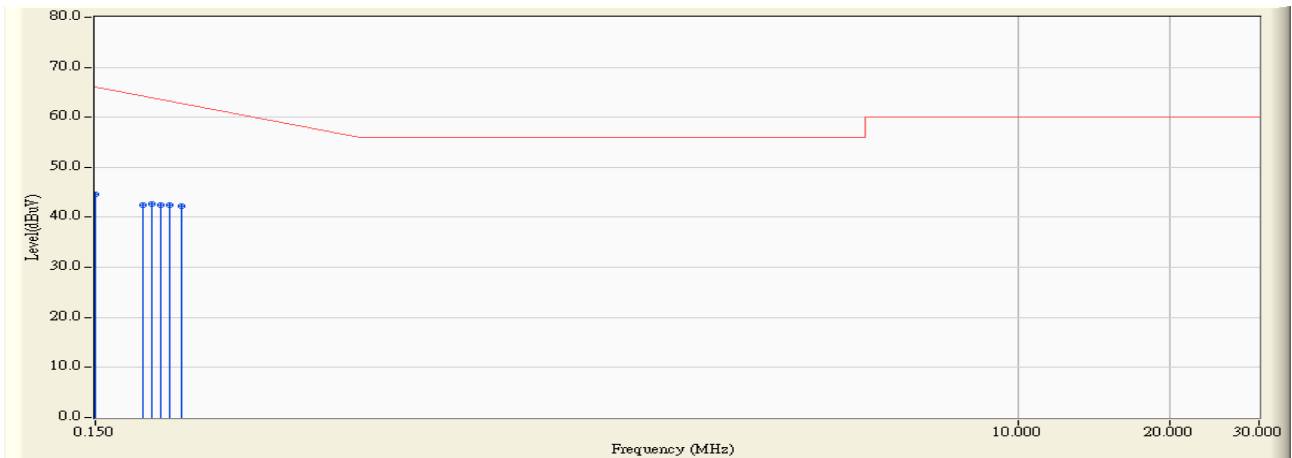
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15.207_00M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz

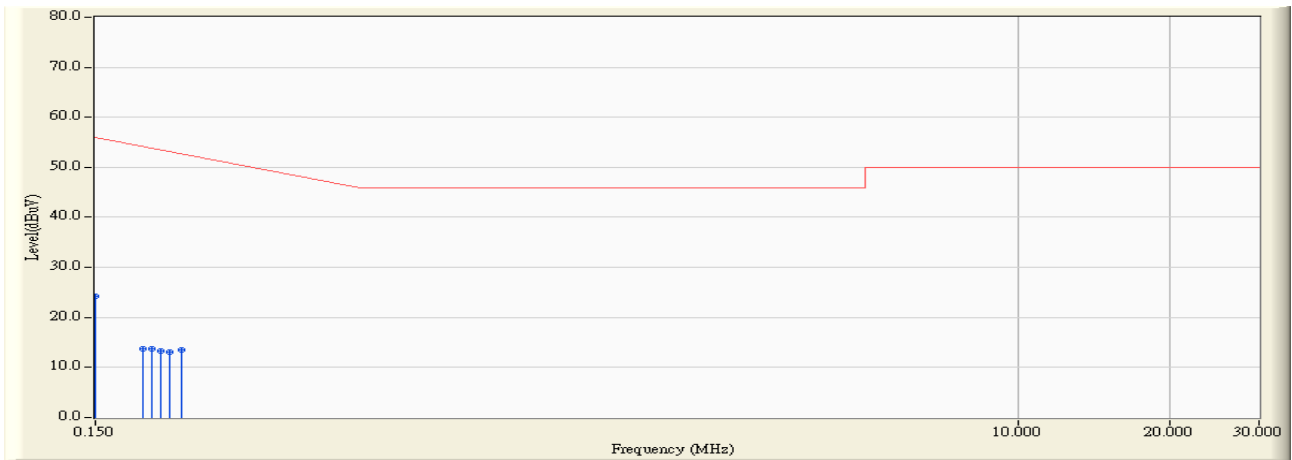


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	34.500	44.506	-21.494	66.000	QUASIPeAK
2		0.186	9.732	32.800	42.532	-22.439	64.971	QUASIPeAK
3		0.194	9.680	32.900	42.580	-22.163	64.743	QUASIPeAK
4		0.202	9.648	32.900	42.548	-21.966	64.514	QUASIPeAK
5		0.210	9.616	32.900	42.516	-21.770	64.286	QUASIPeAK
6		0.222	9.580	32.700	42.280	-21.663	63.943	QUASIPeAK

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Engineer : Jame	
Site : SR-1 (Conducted Emission and Power Disturbance Test)	Time : 2008/08/29 - 09:21
Limit : FCC_Part15_B_00M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : ENV216_100014(0.009-30MHz) - Line2
Power : AC 120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2437MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	10.006	14.200	24.206	-31.794	56.000	AVERAGE
2		0.186	9.732	3.900	13.632	-41.339	54.971	AVERAGE
3		0.194	9.680	4.000	13.680	-41.063	54.743	AVERAGE
4		0.202	9.648	3.700	13.348	-41.166	54.514	AVERAGE
5		0.210	9.616	3.500	13.116	-41.170	54.286	AVERAGE
6		0.222	9.580	4.000	13.580	-40.363	53.943	AVERAGE

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

4. Radiated Emission

4.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
High-Pass Filter	Wainwright	WHKX2.8/18G-12SS	SN1	2008/03/03
Band Reject Filter	Wainwright	WRCG2400/2485-2375 /2510-60/11SS	SN9	2008/03/03
High-Pass Filter	Wainwright	WHKX7.0/18G-8SS	SN16	2008/03/03
Low-Pass Filter	Wainwright	WLKS4500-9SS	SN2	2008/03/03
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25

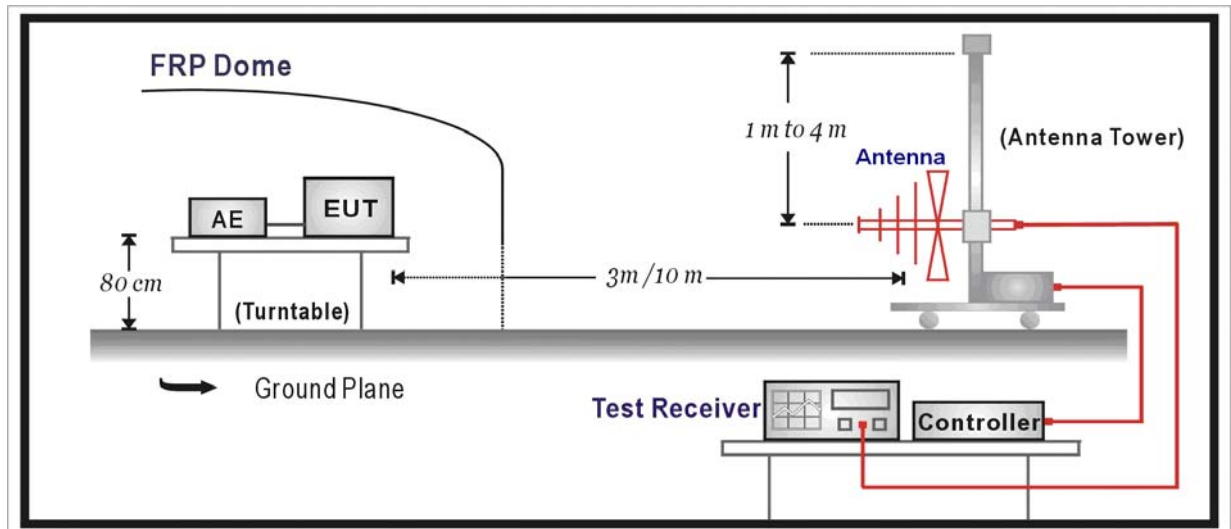
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31
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Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

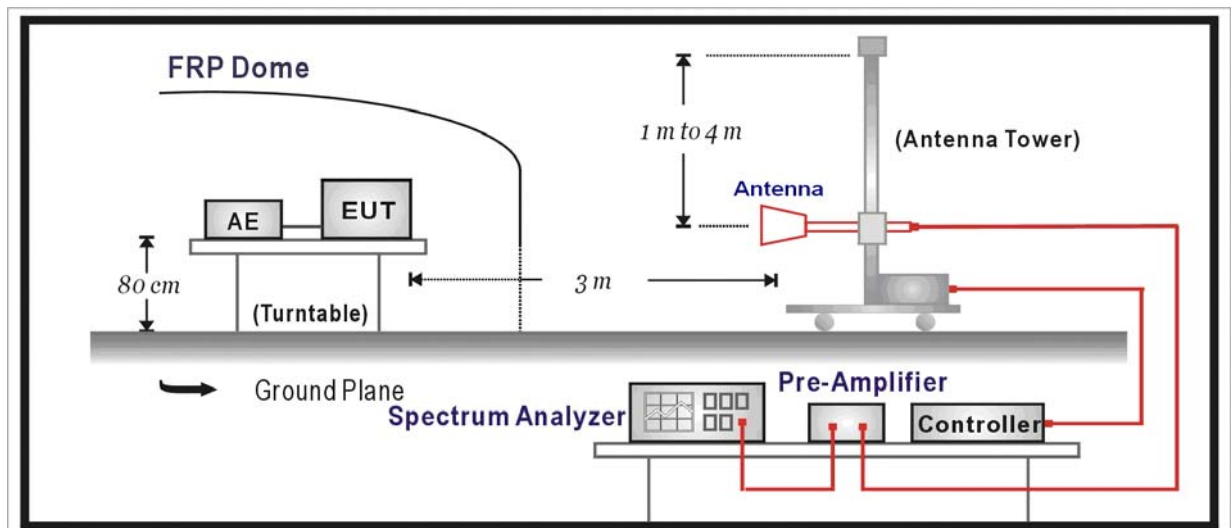
Note 2: The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Distance (m)	Level (dBuV/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 30MHz to 10th harmonic is checked.

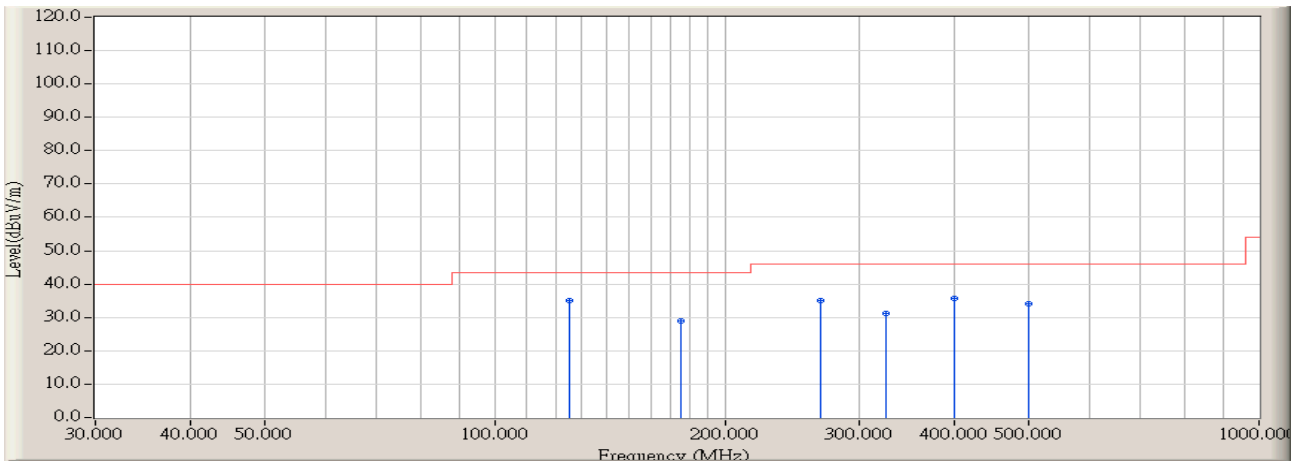
Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna have the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. This horn’s 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

4.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
 below 1G is defined as ± 3.8 dB

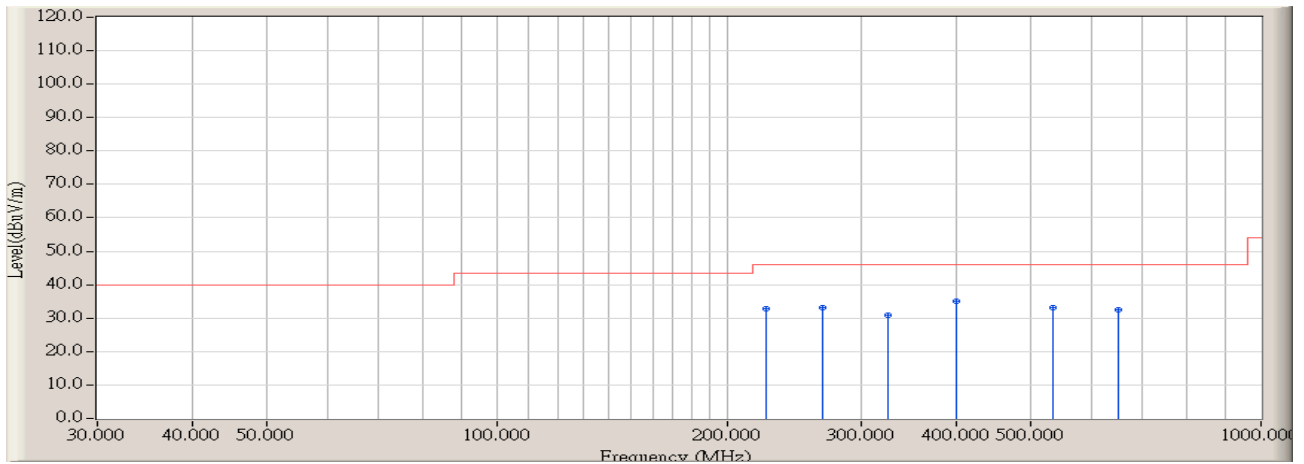
4.6. Test Result

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/01 - 09:51
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC 0)



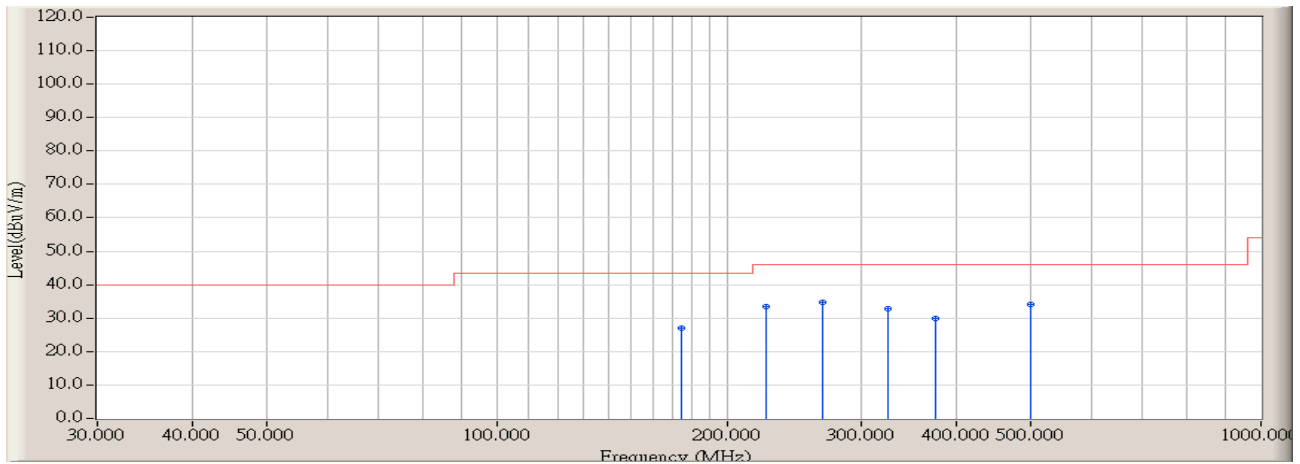
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	*	125.060	-9.705	44.703	34.998	-8.522	43.520	QUASIPeAK	100.000	68.900
2		175.500	-11.189	39.999	28.810	-14.710	43.520	QUASIPeAK	142.000	84.500
3		266.680	-8.529	43.551	35.022	-10.998	46.020	QUASIPeAK	112.000	177.500
4		324.880	-6.885	38.031	31.146	-14.874	46.020	QUASIPeAK	100.000	154.600
5		399.570	-4.942	40.670	35.728	-10.292	46.020	QUASIPeAK	100.000	148.500
6		500.450	-3.384	37.602	34.218	-11.802	46.020	QUASIPeAK	100.000	136.600

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/01 - 09:51
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC 0)



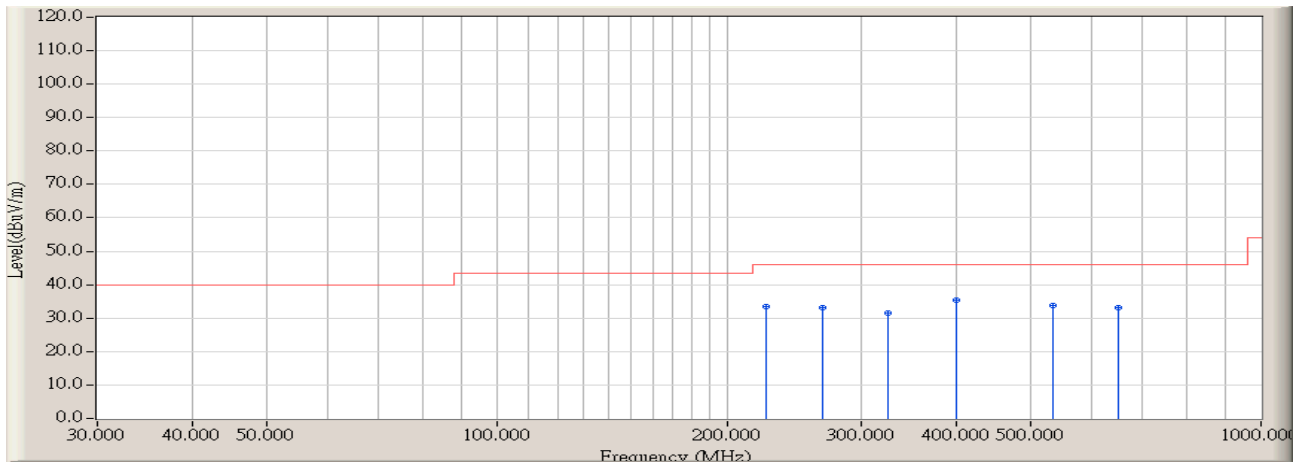
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	224.970	-8.565	41.269	32.704	-13.316	46.020	QUASIPeAK	100.000	248.000
2	266.680	-8.529	41.575	33.046	-12.974	46.020	QUASIPeAK	100.000	211.700
3	324.880	-6.885	37.655	30.770	-15.250	46.020	QUASIPeAK	105.600	225.000
4	* 399.570	-4.942	40.069	35.127	-10.893	46.020	QUASIPeAK	100.000	247.700
5	533.430	-3.198	36.373	33.175	-12.845	46.020	QUASIPeAK	125.500	48.600
6	649.830	-0.171	32.678	32.507	-13.513	46.020	QUASIPeAK	100.000	287.500

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/01 - 09:54
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : CBL6112D_22254(30-2000MHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0 and DAC1)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	174.530	-11.135	38.092	26.957	-16.563	43.520	QUASIPeAK	100.000	215.000
2	224.970	-8.565	41.956	33.391	-12.629	46.020	QUASIPeAK	128.000	88.500
3	* 266.680	-8.529	43.300	34.771	-11.249	46.020	QUASIPeAK	100.000	274.000
4	324.880	-6.885	39.627	32.742	-13.278	46.020	QUASIPeAK	145.500	209.000
5	375.320	-5.896	35.684	29.788	-16.232	46.020	QUASIPeAK	177.500	93.800
6	500.450	-3.384	37.570	34.186	-11.834	46.020	QUASIPeAK	100.000	174.000

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/09/01 - 09:55
Limit : FCC_SpartC_15.209_03M_QP	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : CBL6112D_22254(30-2000MHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0 and DAC1)



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type	Ant Pos (cm)	Table Pos (deg)
1	224.970	-8.565	42.102	33.537	-12.483	46.020	QUASIPeAK	100.000	74.600
2	266.680	-8.529	41.587	33.058	-12.962	46.020	QUASIPeAK	100.000	116.500
3	324.880	-6.885	38.477	31.592	-14.428	46.020	QUASIPeAK	106.500	44.800
4	* 399.570	-4.942	40.285	35.343	-10.677	46.020	QUASIPeAK	113.600	210.400
5	533.430	-3.198	37.059	33.861	-12.159	46.020	QUASIPeAK	102.600	95.000
6	649.830	-0.171	33.354	33.183	-12.837	46.020	QUASIPeAK	100.000	135.200

Above 1GHz Radiated Emission Test Result

Mode 1: 802.11b ((DAC0))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	62.94	74	-11.06	PK	100.000	185.000
4825	H	44.17	54	-9.83	AV	100.000	185.000
9653	H	57.32	74	-16.68	PK	100.000	153.000
9653	H	38.35	54	-15.65	AV	100.000	153.000
4825	V	65.59	74	-8.41	PK	104.000	206.000
4825	V	47.05	54	-6.95	AV	104.000	206.000
9653	V	63.60	74	-10.40	PK	103.500	166.800
9653	V	44.27	54	-9.73	AV	103.500	166.800
Channel 06 (2437MHz)							
4859	H	62.47	74	-11.53	PK	100.000	196.000
4859	H	44.26	54	-9.74	AV	100.000	196.000
9755	H	58.26	74	-15.74	PK	100.000	144.000
9755	H	39.37	54	-14.63	AV	100.000	144.000
4859	V	66.03	74	-7.97	PK	102.500	116.700
4859	V	47.84	54	-6.16	AV	102.500	116.700
9755	V	59.25	74	-14.75	PK	106.400	158.000
9755	V	40.24	54	-13.76	AV	106.400	158.000
Channel 11 (2462MHz)							
4927	H	63.58	74	-10.42	PK	105.400	188.400
4927	H	45.02	54	-8.98	AV	105.400	188.400
9857	H	54.36	74	-19.64	PK	103.000	136.000
9857	H	36.57	54	-17.43	AV	103.000	136.000
4927	V	65.07	74	-8.93	PK	100.000	169.000
4927	V	46.45	54	-7.55	AV	100.000	169.000
9857	V	58.91	74	-15.09	PK	102.400	25.600
9857	V	39.73	54	-14.27	AV	102.400	25.600

Mode 2: 802.11g ((DAC0))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	62.34	74	-11.66	PK	100.000	152.000
4825	H	43.28	54	-10.72	AV	100.000	152.000
4825	V	64.87	74	-9.13	PK	100.000	135.000
4825	V	46.68	54	-7.32	AV	100.000	135.000
9653	V	59.32	74	-14.68	PK	100.000	169.000
9653	V	41.03	54	-12.97	AV	100.000	169.000
Channel 06 (2437MHz)							
4876	H	61.61	74	-12.39	PK	100.000	167.400
4876	H	42.75	54	-11.25	AV	100.000	167.400
4876	V	66.12	74	-7.88	PK	114.500	172.500
4876	V	47.93	54	-6.07	AV	114.500	172.500
9755	V	60.36	74	-13.64	PK	100.000	185.400
9755	V	40.94	54	-13.06	AV	100.000	185.400
Channel 11 (2462MHz)							
4927	H	62.42	74	-11.58	PK	100.000	133.500
4927	H	43.50	54	-10.50	AV	100.000	133.500
4927	V	65.45	74	-8.55	PK	103.400	114.600
4927	V	46.38	54	-7.62	AV	103.400	114.600
9857	V	59.89	74	-14.11	PK	100.000	152.600
9857	V	41.05	54	-12.95	AV	100.000	152.600

Mode 3: 802.11n(20MHz) ((DAC0))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	61.64	74	-12.36	PK	100.000	242.500
4825	H	42.63	54	-11.37	AV	100.000	242.500
4825	V	63.57	74	-10.43	PK	120.500	304.000
4825	V	46.74	54	-7.26	AV	120.500	304.000
9653	V	58.42	74	-15.58	PK	109.400	65.800
9653	V	40.05	54	-13.95	AV	109.400	65.800
Channel 06 (2437MHz)							
4876	H	62.73	74	-11.27	PK	100.000	103.800
4876	H	43.56	54	-10.44	AV	100.000	103.800
4876	V	65.16	74	-8.84	PK	100.000	142.400
4876	V	46.73	54	-7.27	AV	100.000	142.400
9755	V	60.15	74	-13.85	PK	103.600	84.000
9755	V	39.97	54	-14.03	AV	103.600	84.000
Channel 11 (2462MHz)							
4927	H	61.52	74	-12.48	PK	105.100	94.000
4927	H	43.55	54	-10.45	AV	105.100	94.000
4927	V	66.24	74	-7.76	PK	100.000	284.000
4927	V	46.48	54	-7.52	AV	100.000	284.000
9857	V	59.57	74	-14.43	PK	110.400	258.000
9857	V	40.67	54	-13.33	AV	110.400	258.000

Mode 4: 802.11n(40MHz) ((DAC0))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 03 (2422MHz)							
4845	H	62.34	74	-11.66	PK	100.000	162.000
4845	H	43.75	54	-10.25	AV	100.000	162.000
4845	V	63.36	74	-10.64	PK	100.000	77.400
4845	V	44.14	54	-9.86	AV	100.000	77.400
9693	V	59.52	74	-14.48	PK	106.400	158.000
9693	V	40.14	54	-13.86	AV	106.400	158.000
Channel 06 (2437MHz)							
4876	H	61.53	74	-12.47	PK	100.000	169.000
4876	H	42.36	54	-11.64	AV	100.000	169.000
4876	V	64.18	74	-9.82	PK	100.000	167.400
4876	V	45.93	54	-8.07	AV	100.000	167.400
9755	V	61.35	74	-12.65	PK	102.500	116.700
9755	V	40.22	54	-13.78	AV	102.500	116.700
Channel 09 (2452MHz)							
4907	H	62.35	74	-11.65	PK	110.400	258.000
4907	H	43.46	54	-10.54	AV	110.400	258.000
4907	V	65.24	74	-8.76	PK	103.600	84.000
4907	V	46.75	54	-7.25	AV	103.600	84.000
9817	V	58.37	74	-15.63	PK	100.000	152.600
9817	V	40.42	54	-13.58	AV	100.000	152.600

Mode 1: 802.11b ((DAC1))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	63.22	74	-10.78	PK	120.500	65.800
4825	H	44.45	54	-9.55	AV	120.500	65.800
9653	H	58.37	74	-15.63	PK	114.200	144.800
9653	H	39.63	54	-14.37	AV	114.200	144.800
4825	V	64.26	74	-9.74	PK	110.500	60.800
4825	V	45.65	54	-8.35	AV	110.500	60.800
9653	V	63.68	74	-10.32	PK	104.200	124.800
9653	V	44.63	54	-9.37	AV	104.200	124.800
Channel 06 (2437MHz)							
4876	H	62.36	74	-11.64	PK	110.500	304.000
4876	H	43.57	54	-10.43	AV	110.500	304.000
4876	H	58.38	74	-15.62	PK	109.400	63.800
4876	H	39.27	54	-14.73	AV	109.400	63.800
4859	V	64.92	74	-9.08	PK	100.000	152.000
4859	V	46.23	54	-7.77	AV	100.000	152.000
9755	V	59.28	74	-14.72	PK	100.000	185.000
9755	V	40.30	54	-13.70	AV	100.000	185.000
Channel 11 (2462MHz)							
4927	H	62.46	74	-11.54	PK	105.400	188.400
4927	H	43.99	54	-10.01	AV	105.400	188.400
9857	H	54.83	74	-19.17	PK	103.000	136.000
9857	H	36.32	54	-17.68	AV	103.000	136.000
4927	V	65.31	74	-8.69	PK	100.000	196.000
4927	V	46.83	54	-7.17	AV	100.000	196.000
9857	V	59.61	74	-14.39	PK	100.000	144.000
9857	V	40.32	54	-13.68	AV	100.000	144.000

Mode 2: 802.11g ((DAC1))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	62.83	74	-11.17	PK	120.500	304.000
4825	H	43.08	54	-10.92	AV	120.500	304.000
4825	V	63.66	74	-10.34	PK	109.400	65.800
4825	V	44.59	54	-9.41	AV	109.400	65.800
9653	V	59.12	74	-14.88	PK	100.000	187.000
9653	V	40.36	54	-13.64	AV	100.000	187.000
Channel 06 (2437MHz)							
4876	H	60.92	74	-13.08	PK	100.000	103.800
4876	H	41.37	54	-12.63	AV	100.000	103.800
4876	V	63.94	74	-10.06	PK	100.000	142.400
4876	V	44.92	54	-9.08	AV	100.000	142.400
9755	V	62.74	74	-11.26	PK	106.000	328.000
9755	V	43.25	54	-10.75	AV	106.000	328.000
Channel 11 (2462MHz)							
4927	H	61.36	74	-12.64	PK	100.000	162.000
4927	H	42.48	54	-11.52	AV	100.000	162.000
4927	V	64.05	74	-9.95	PK	100.000	77.400
4927	V	45.21	54	-8.79	AV	100.000	77.400
9857	V	60.45	74	-13.55	PK	100.000	169.000
9857	V	41.23	54	-12.77	AV	100.000	169.000

Mode 3: 802.11n(20MHz) ((DAC1))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	62.58	74	-11.42	PK	100.000	167.400
4825	H	43.24	54	-10.76	AV	100.000	167.400
4825	V	63.49	74	-10.51	PK	105.400	188.400
4825	V	45.24	54	-8.76	AV	105.400	188.400
9653	V	59.27	74	-14.73	PK	103.000	136.000
9653	V	40.94	54	-13.06	AV	103.000	136.000
Channel 06 (2437MHz)							
4876	H	62.53	74	-11.47	PK	105.100	94.000
4876	H	43.72	54	-10.28	AV	105.100	94.000
4876	V	64.85	74	-9.15	PK	100.000	284.000
4876	V	45.38	54	-8.62	AV	100.000	284.000
9755	V	61.27	74	-12.73	PK	100.000	169.000
9755	V	42.53	54	-11.47	AV	100.000	169.000
Channel 11 (2462MHz)							
4927	H	60.93	74	-13.07	PK	100.000	153.000
4927	H	42.05	54	-11.95	AV	100.000	153.000
4927	V	63.28	74	-10.72	PK	104.000	206.000
4927	V	44.39	54	-9.61	AV	104.000	206.000
9857	V	60.37	74	-13.63	PK	100.000	167.400
9857	V	41.84	54	-12.16	AV	100.000	167.400

Mode 4: 802.11n(40MHz) ((DAC1))							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 03 (2422MHz)							
4845	H	63.25	74	-10.75	PK	100.000	169.000
4845	H	44.78	54	-9.22	AV	100.000	169.000
4845	V	64.56	74	-9.44	PK	102.400	25.600
4845	V	45.39	54	-8.61	AV	102.400	25.600
9693	V	60.84	74	-13.16	PK	100.000	187.000
9693	V	41.28	54	-12.72	AV	100.000	187.000
Channel 06 (2437MHz)							
4876	H	60.55	74	-13.45	PK	105.100	94.000
4876	H	41.36	54	-12.64	AV	105.100	94.000
4876	V	63.75	74	-10.25	PK	100.000	284.000
4876	V	44.67	54	-9.33	AV	100.000	284.000
9755	V	62.29	74	-11.71	PK	106.000	328.000
9755	V	43.34	54	-10.66	AV	106.000	328.000
Channel 09 (2452MHz)							
4907	H	61.37	74	-12.63	PK	105.000	113.600
4907	H	42.21	54	-11.79	AV	105.000	113.600
4907	V	63.34	74	-10.66	PK	100.000	165.000
4907	V	44.55	54	-9.45	AV	100.000	165.000
9817	V	60.47	74	-13.53	PK	103.600	72.800
9817	V	41.56	54	-12.44	AV	103.600	72.800

Mode 3: 802.11n(20MHz) (DAC0 and DAC1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 01 (2412MHz)							
4825	H	63.58	74	-10.42	PK	105.400	117.500
4825	H	44.24	54	-9.76	AV	105.400	117.500
4825	V	64.09	74	-9.91	PK	110.400	258.000
4825	V	45.16	54	-8.84	AV	110.400	258.000
9653	V	60.27	74	-13.73	PK	103.600	84.000
9653	V	41.34	54	-12.66	AV	103.600	84.000
Channel 06 (2437MHz)							
4876	H	62.72	74	-11.28	PK	105.400	188.400
4876	H	43.44	54	-10.56	AV	105.400	188.400
4876	V	64.63	74	-9.37	PK	103.000	136.000
4876	V	45.52	54	-8.48	AV	103.000	136.000
9755	V	61.74	74	-12.26	PK	105.400	114.700
9755	V	42.58	54	-11.42	AV	105.400	114.700
Channel 11 (2462MHz)							
4927	H	60.85	74	-13.15	PK	100.000	153.000
4927	H	41.75	54	-12.25	AV	100.000	153.000
4927	V	63.44	74	-10.56	PK	104.000	206.000
4927	V	44.52	54	-9.48	AV	104.000	206.000
9857	V	60.38	74	-13.62	PK	103.500	63.800
9857	V	41.93	54	-12.07	AV	103.500	63.800

Mode 4: 802.11n(40MHz) (DAC0 and DAC1)							
Frequency (MHz)	Polarization (H/V)	Measure Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Height (cm)	Azimuth (degree)
Channel 03 (2422MHz)							
4845	H	62.55	74	-11.45	PK	100.000	165.200
4845	H	43.58	54	-10.42	AV	100.000	165.200
4845	V	64.38	74	-9.62	PK	100.000	205.000
4845	V	45.75	54	-8.25	AV	100.000	205.000
9693	V	60.27	74	-13.73	PK	100.000	166.800
9693	V	41.35	54	-12.65	AV	100.000	166.800
Channel 06 (2437MHz)							
4876	H	60.28	74	-13.72	PK	100.000	122.000
4876	H	41.47	54	-12.53	AV	100.000	122.000
4876	V	63.47	74	-10.53	PK	105.800	94.000
4876	V	44.94	54	-9.06	AV	105.800	94.000
9755	V	62.32	74	-11.68	PK	100.000	114.500
9755	V	43.16	54	-10.84	AV	100.000	114.500
Channel 09 (2452MHz)							
4907	H	61.38	74	-12.62	PK	105.400	114.700
4907	H	42.17	54	-11.83	AV	105.400	114.700
4907	V	63.43	74	-10.57	PK	103.500	63.800
4907	V	44.51	54	-9.49	AV	103.500	63.800
9817	V	60.39	74	-13.61	PK	100.000	84.900
9817	V	41.48	54	-12.52	AV	100.000	84.900

5. RF Antenna Conducted Spurious

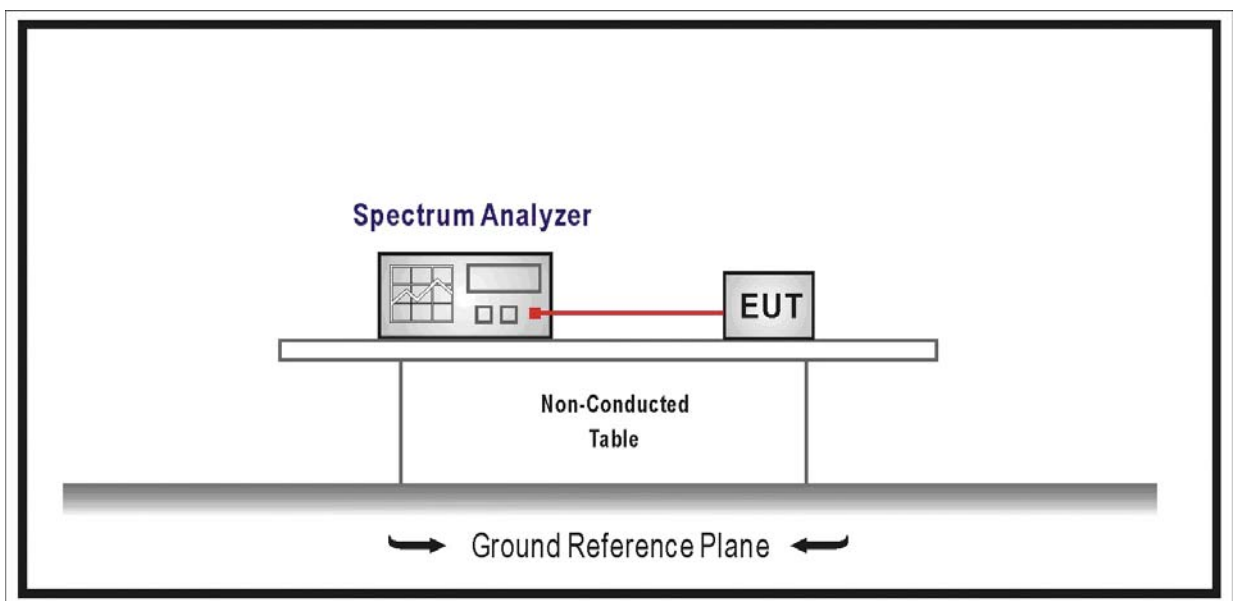
5.1. Test Equipment

RF Antenna Conducted Spurious / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

5.2. Test Setup



5.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

5.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

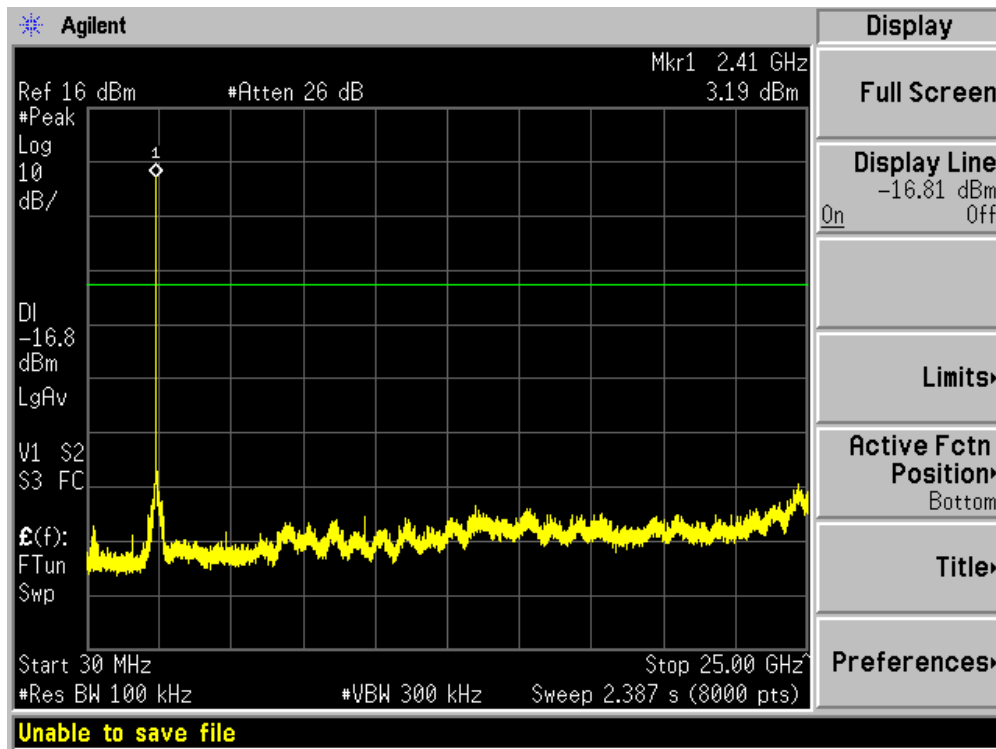
5.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

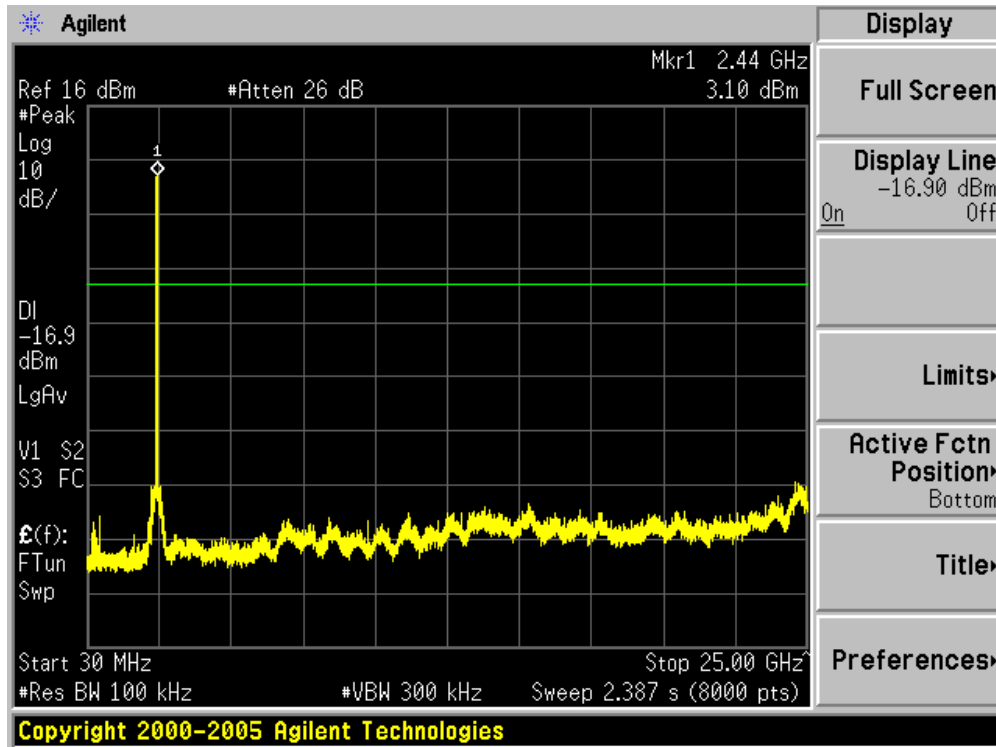
5.6. Test Result

Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC0)

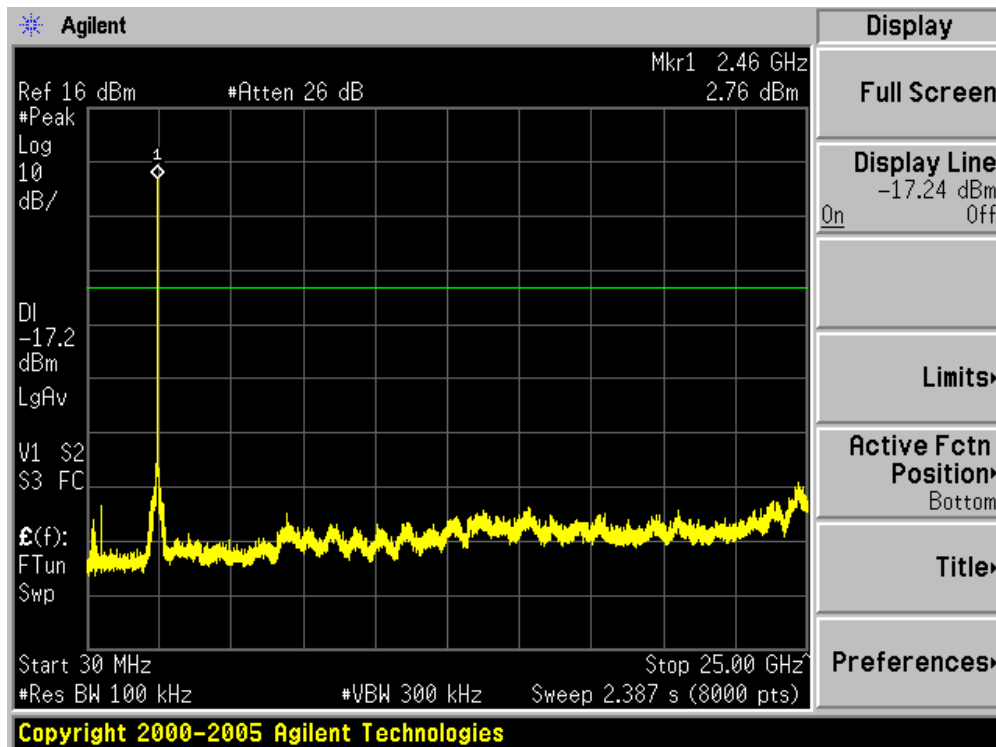
Channel 01 (2412MHz)



Channel 06 (2437MHz)

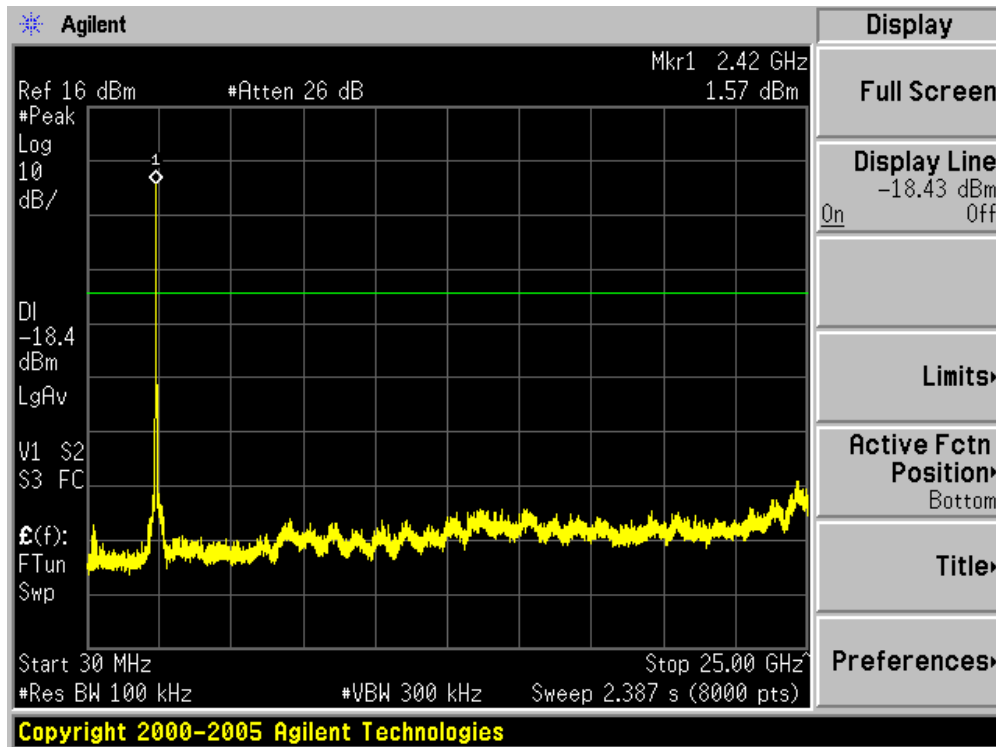


Channel 11 (2462MHz)

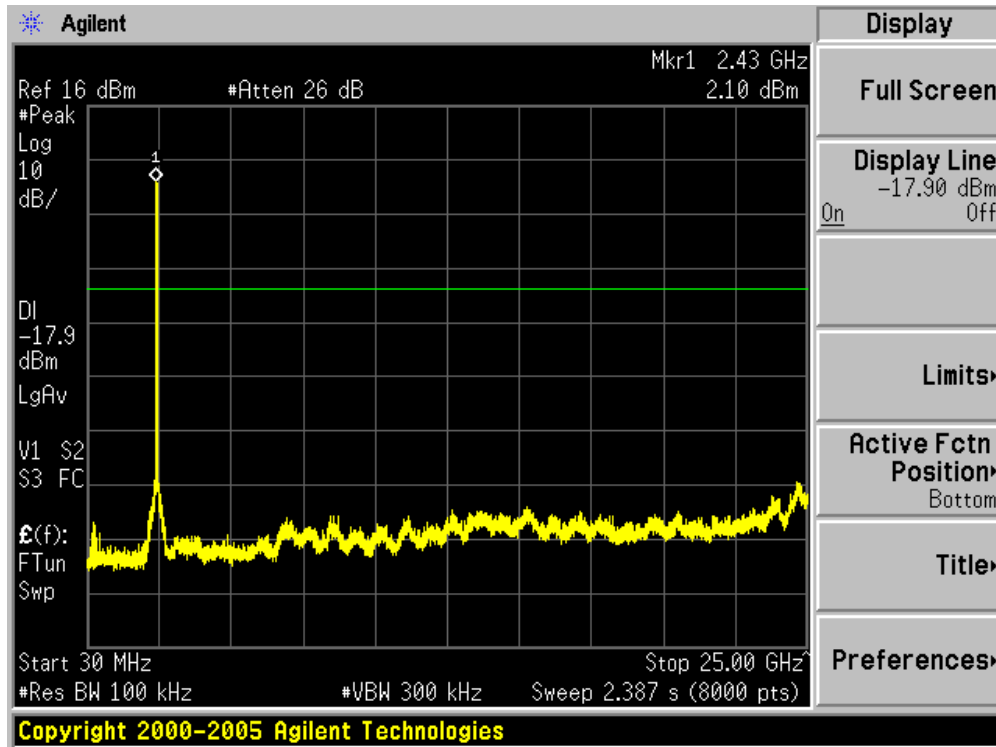


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC0)

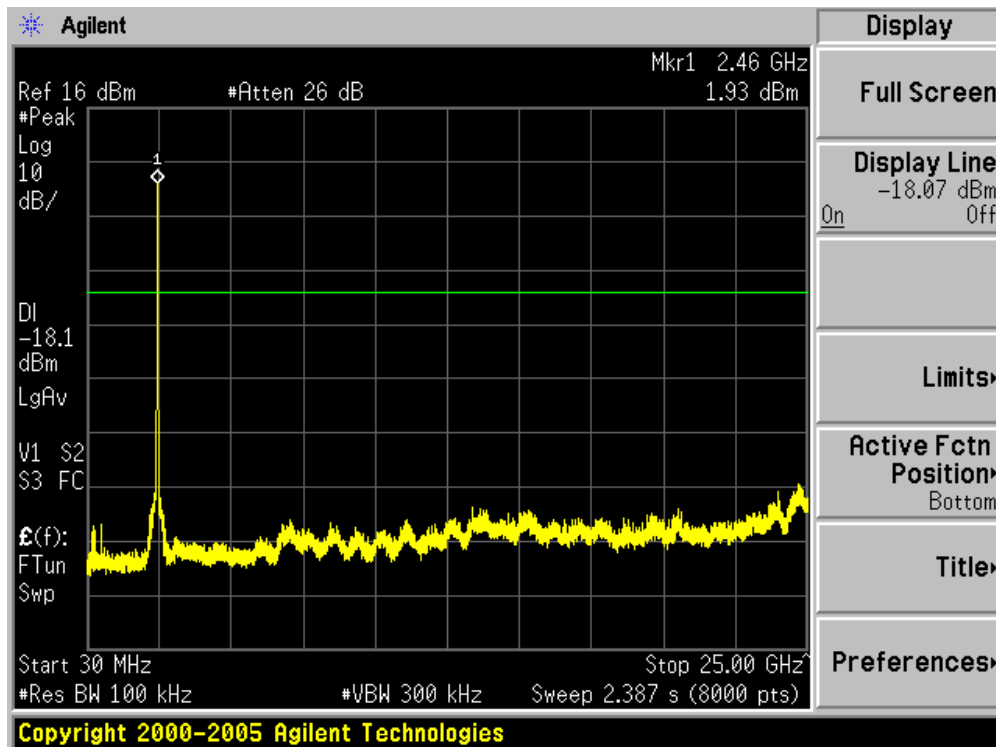
Channel 01 (2412MHz)



Channel 06 (2437MHz)

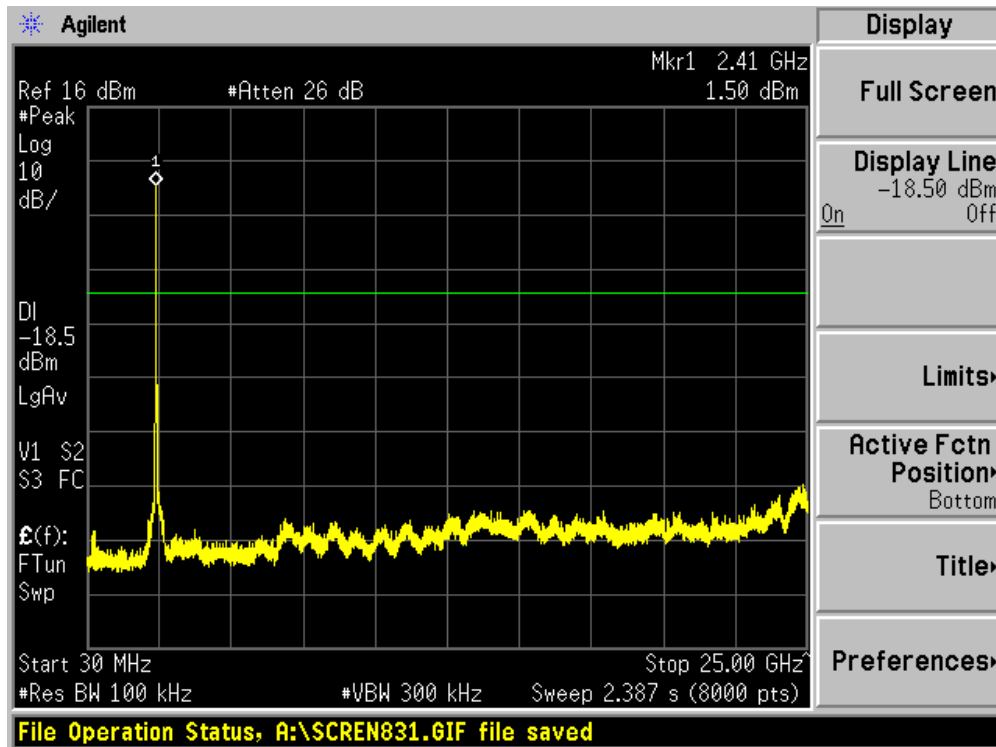


Channel 11 (2462MHz)

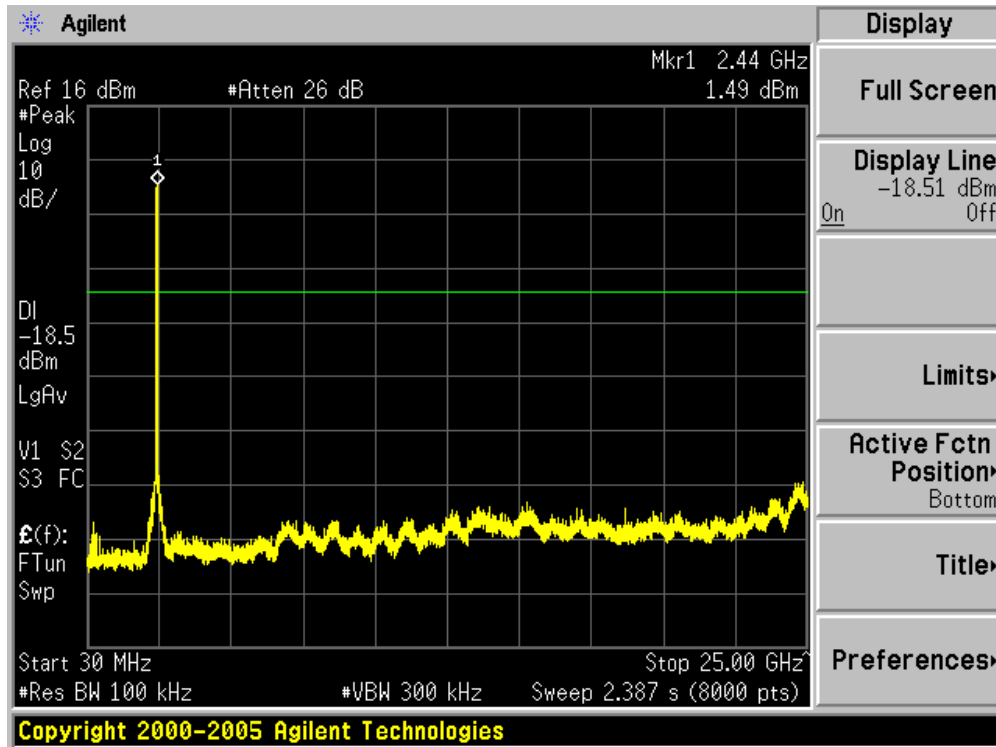


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC0)

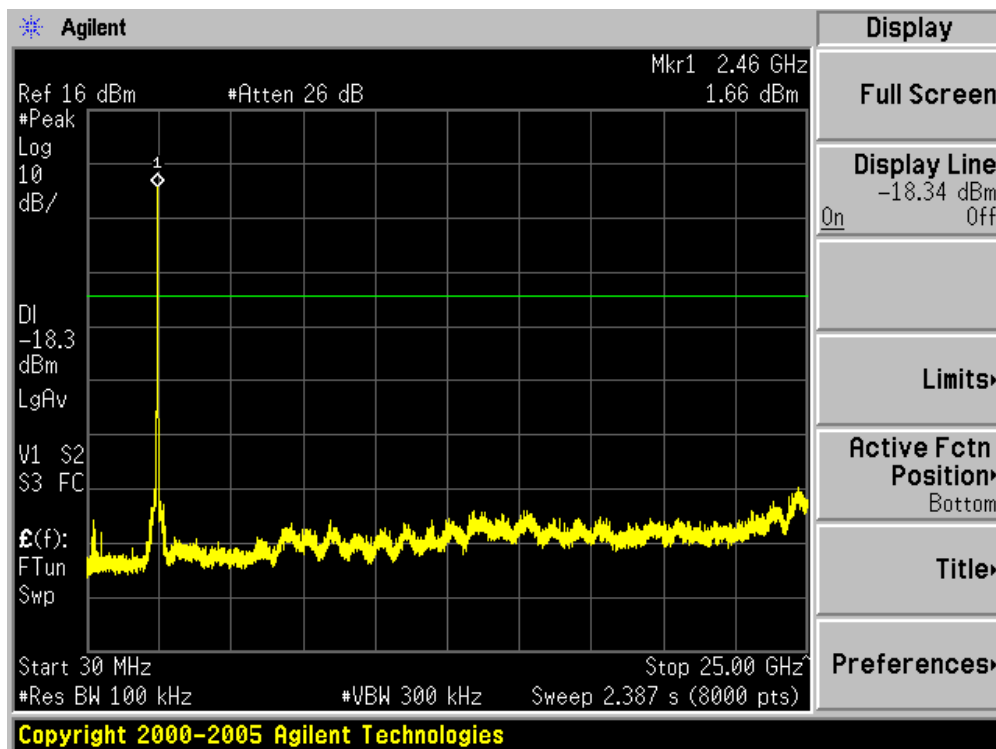
Channel 01 (2412MHz)



Channel 06 (2437MHz)

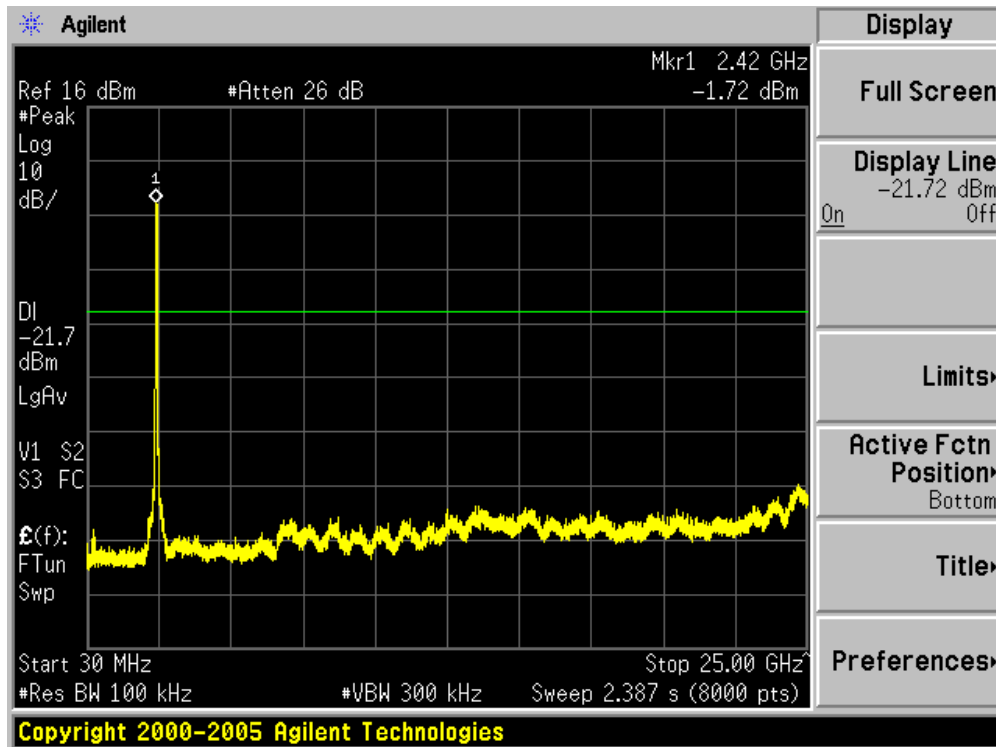


Channel 11 (2462MHz)

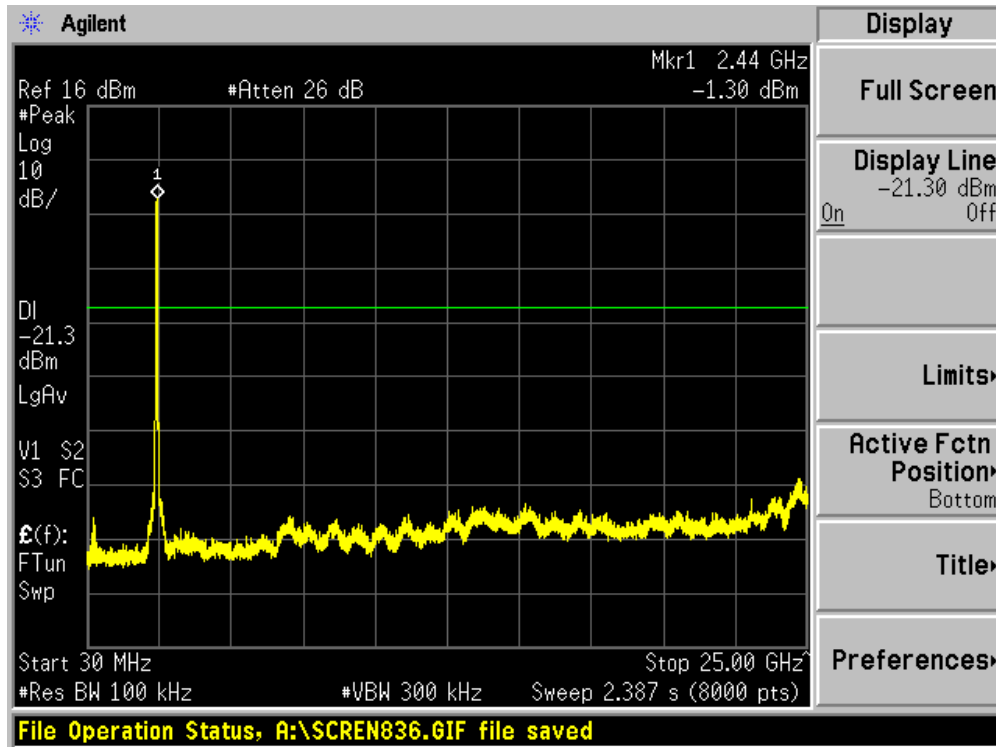


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC0)

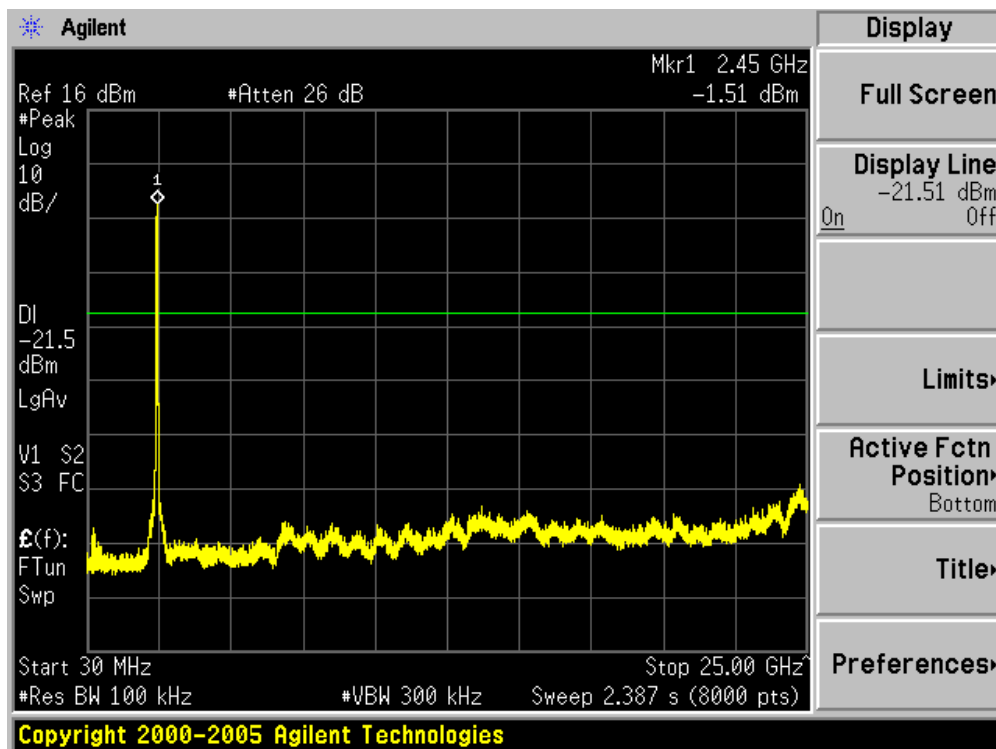
Channel 03 (2422MHz)



Channel 06 (2437MHz)

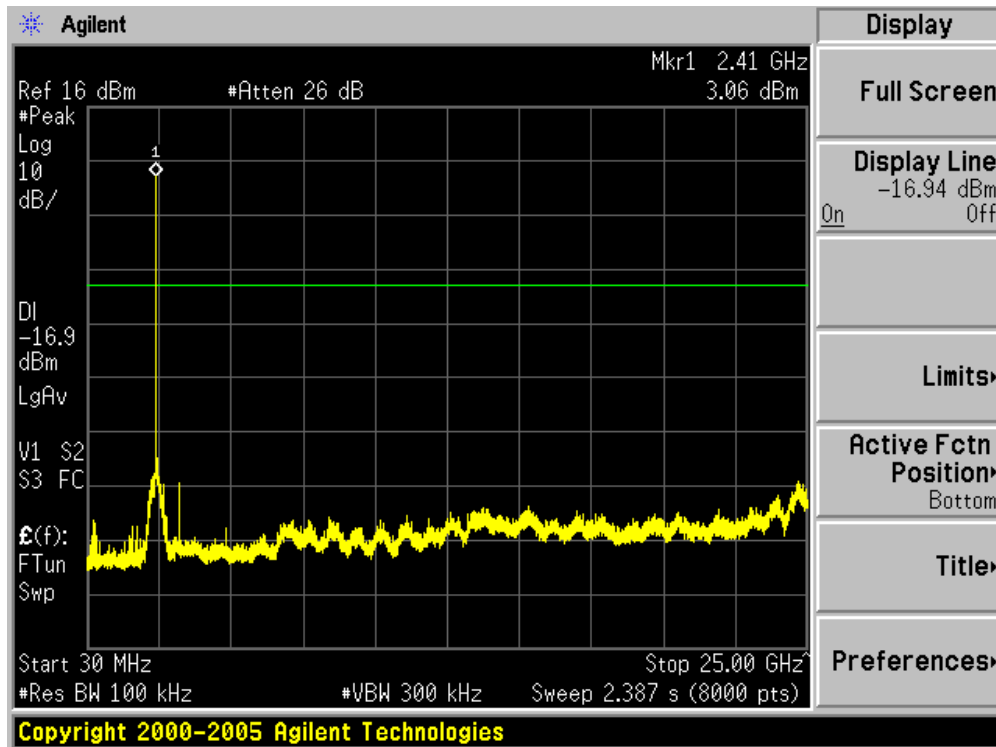


Channel 09 (2452MHz)

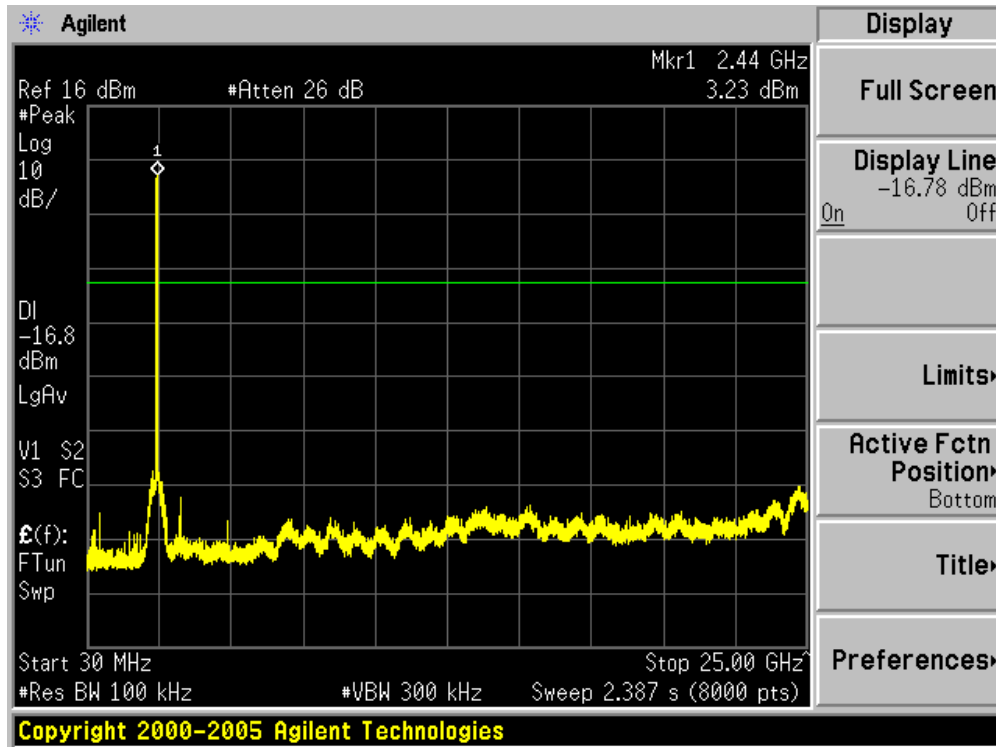


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC1)

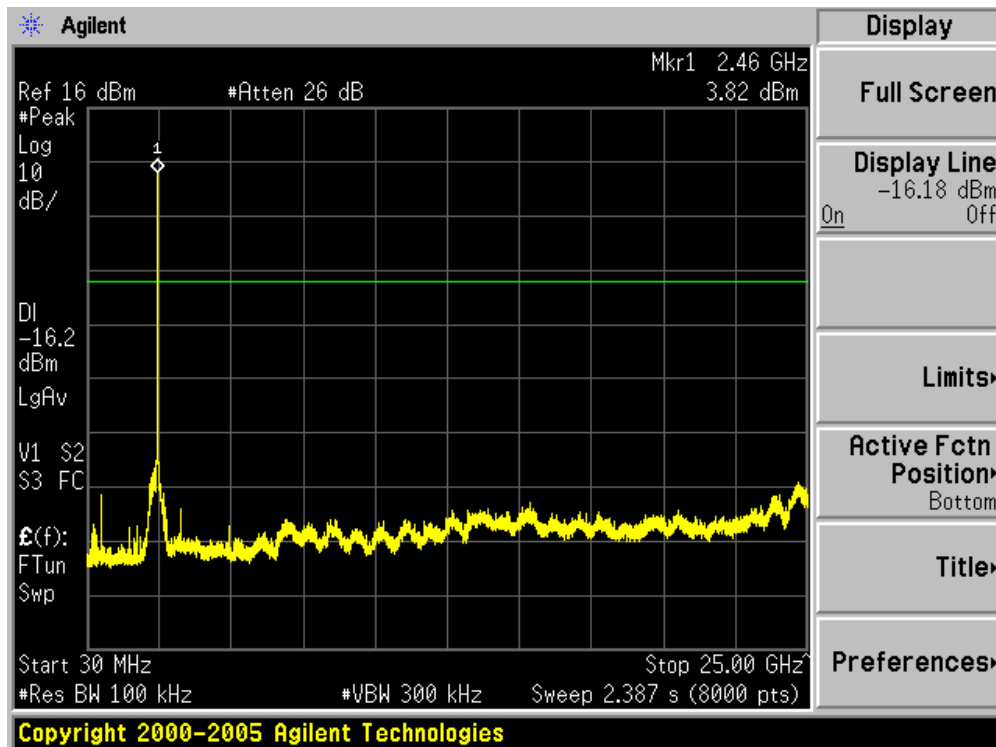
Channel 01 (2412MHz)



Channel 06 (2437MHz)

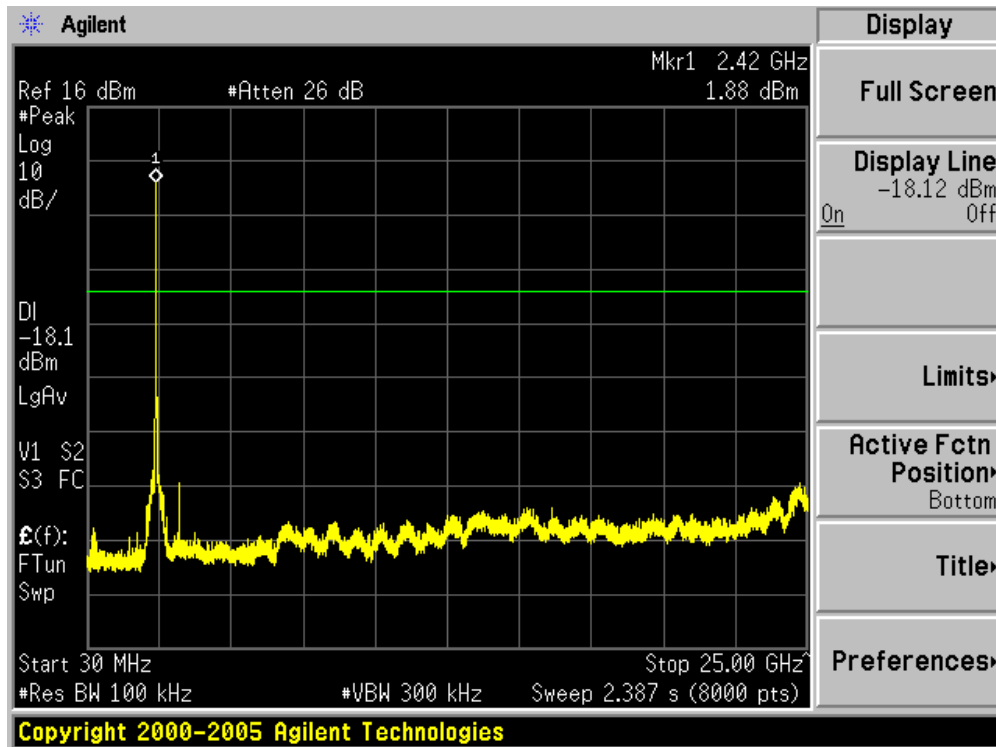


Channel 11 (2462MHz)

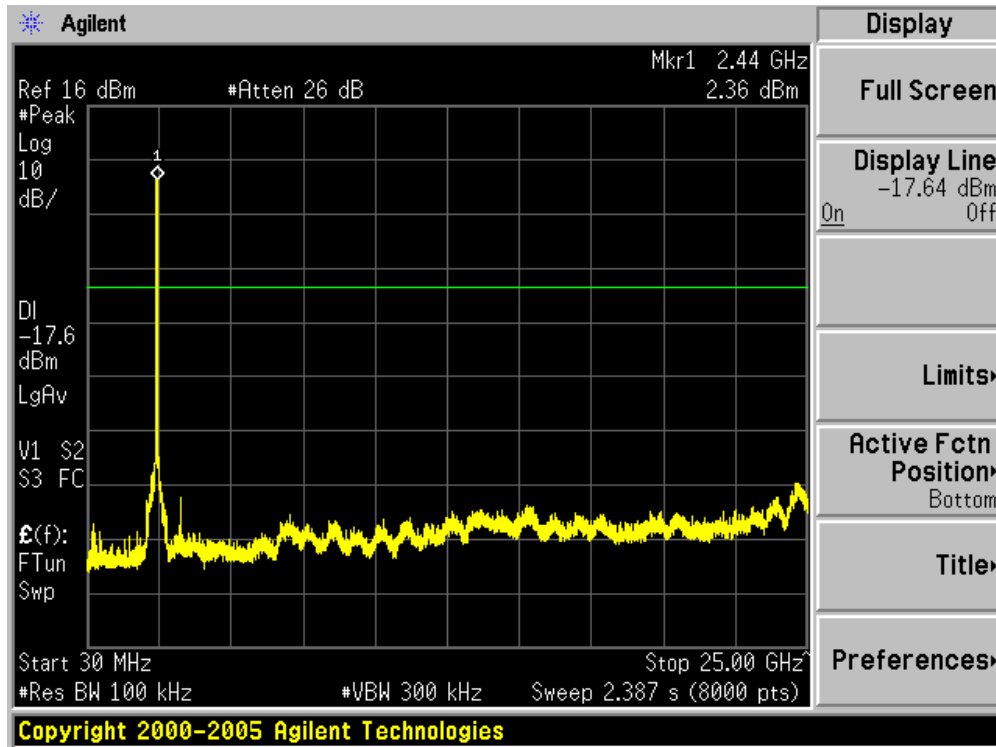


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC1)

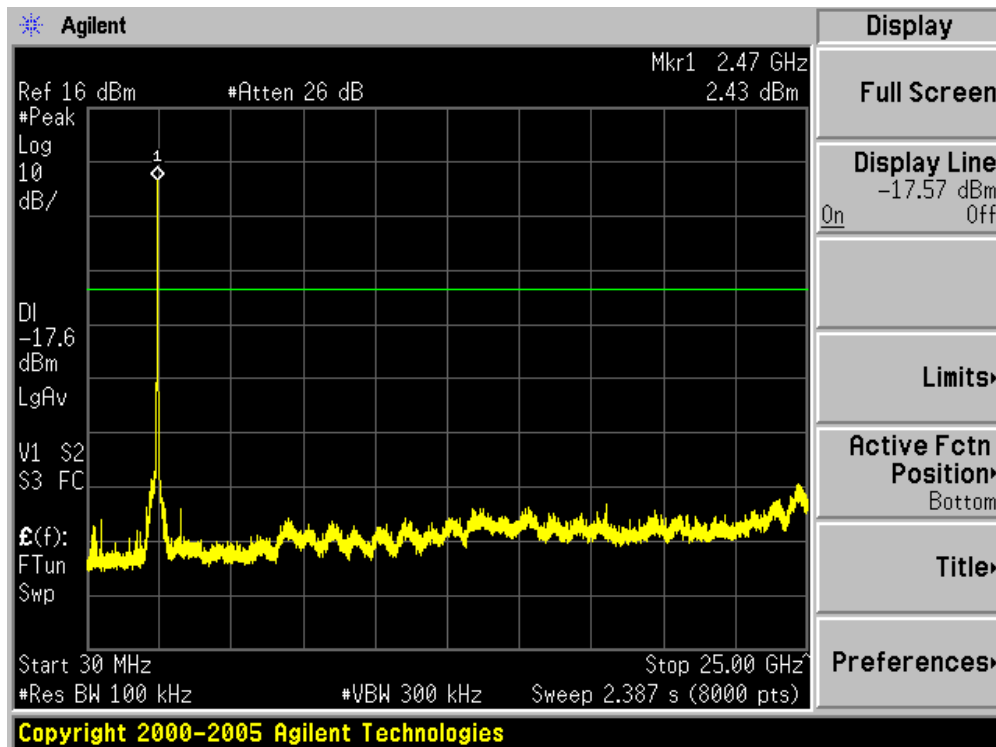
Channel 01 (2412MHz)



Channel 06 (2437MHz)

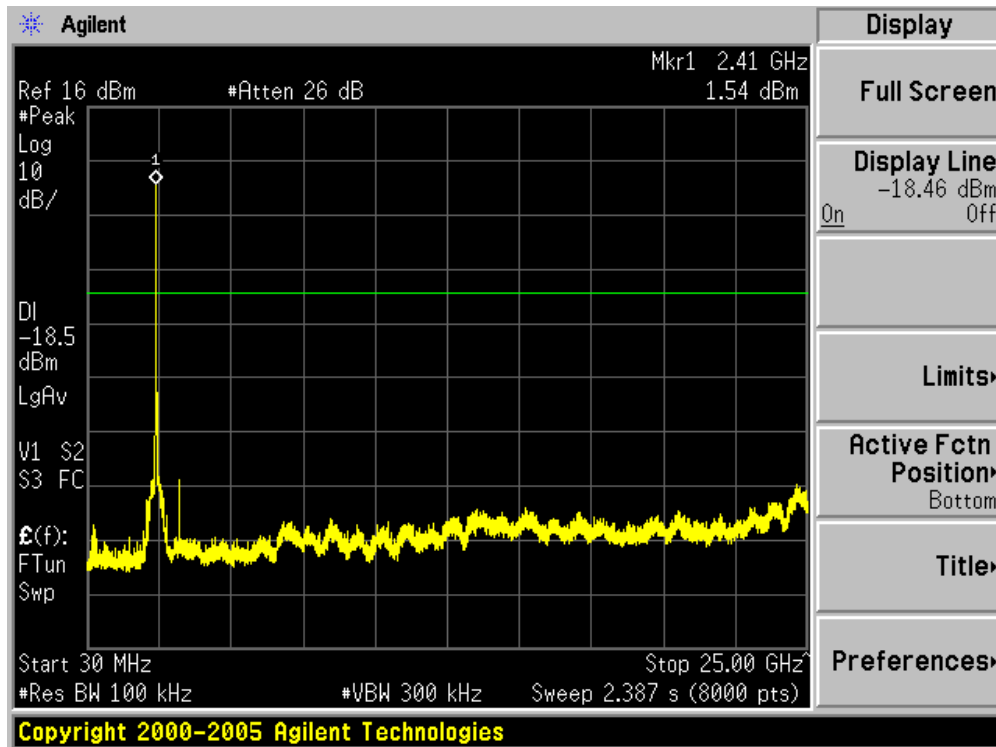


Channel 11 (2462MHz)

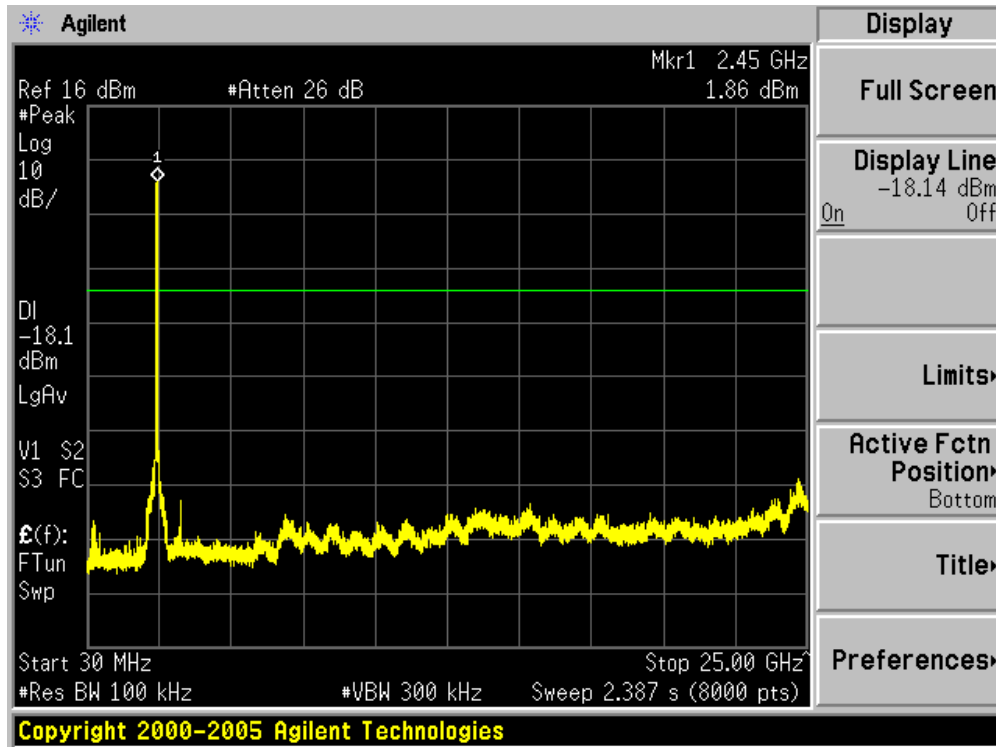


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC1)

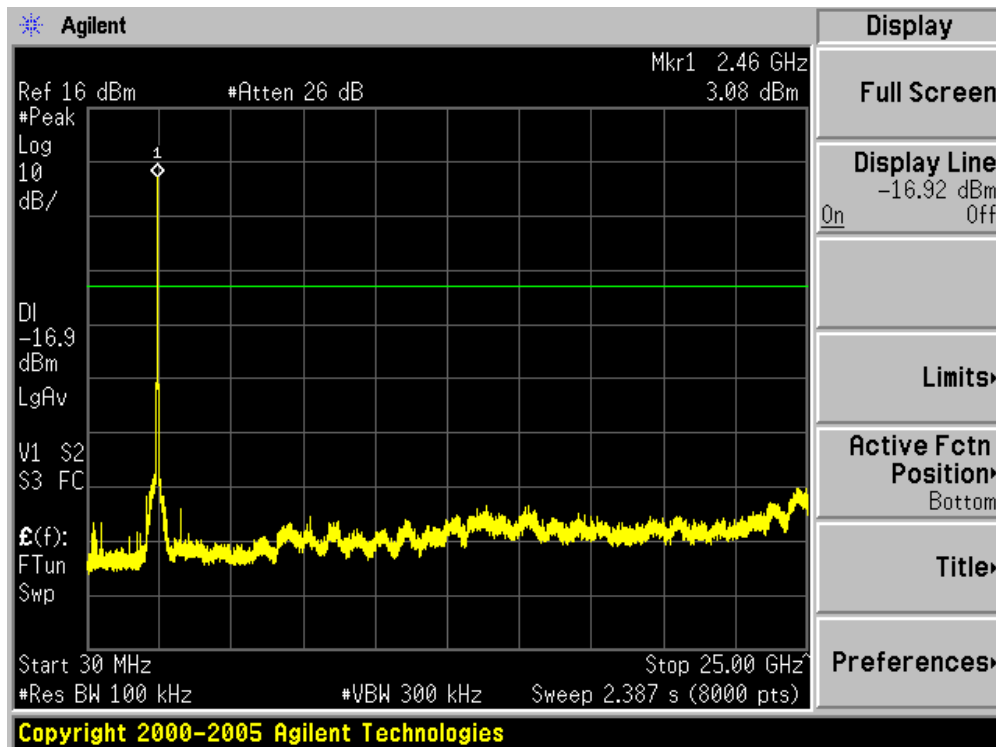
Channel 01 (2412MHz)



Channel 06 (2437MHz)

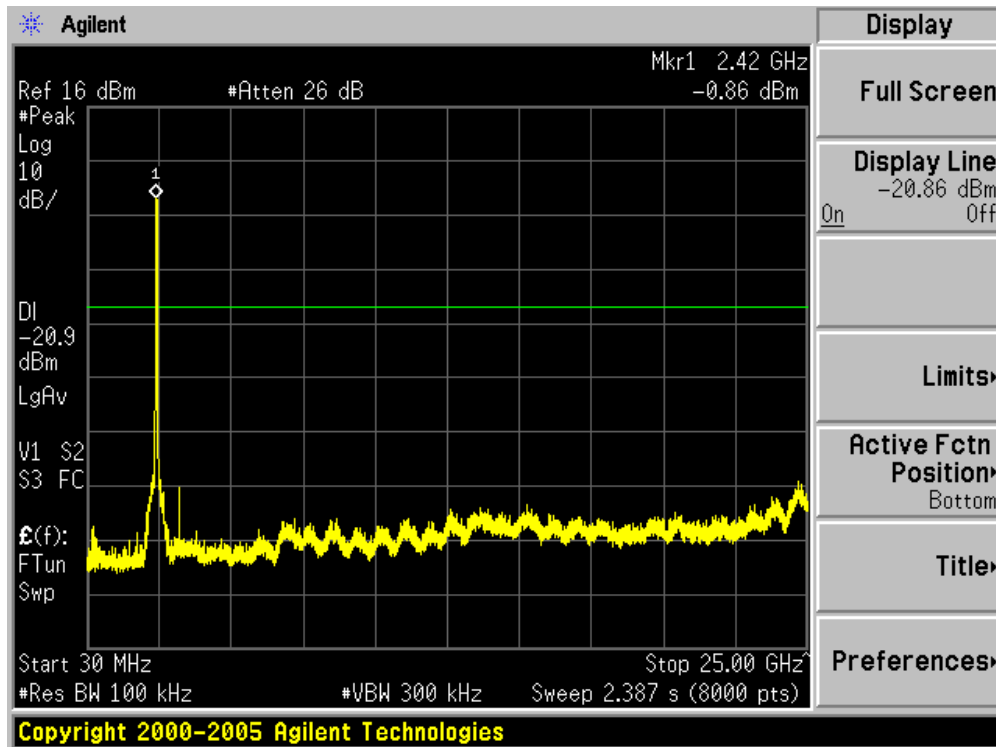


Channel 11 (2462MHz)

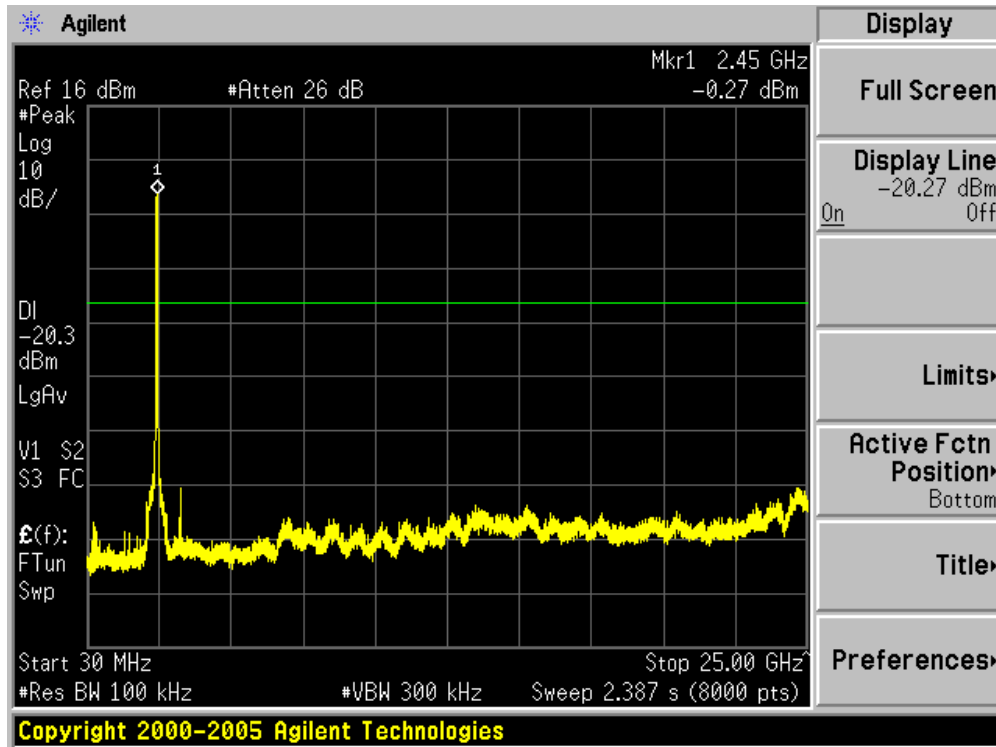


Product	:	802.11n Wireless LAN Module
Test Item	:	RF Antenna Conducted Spurious
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC1)

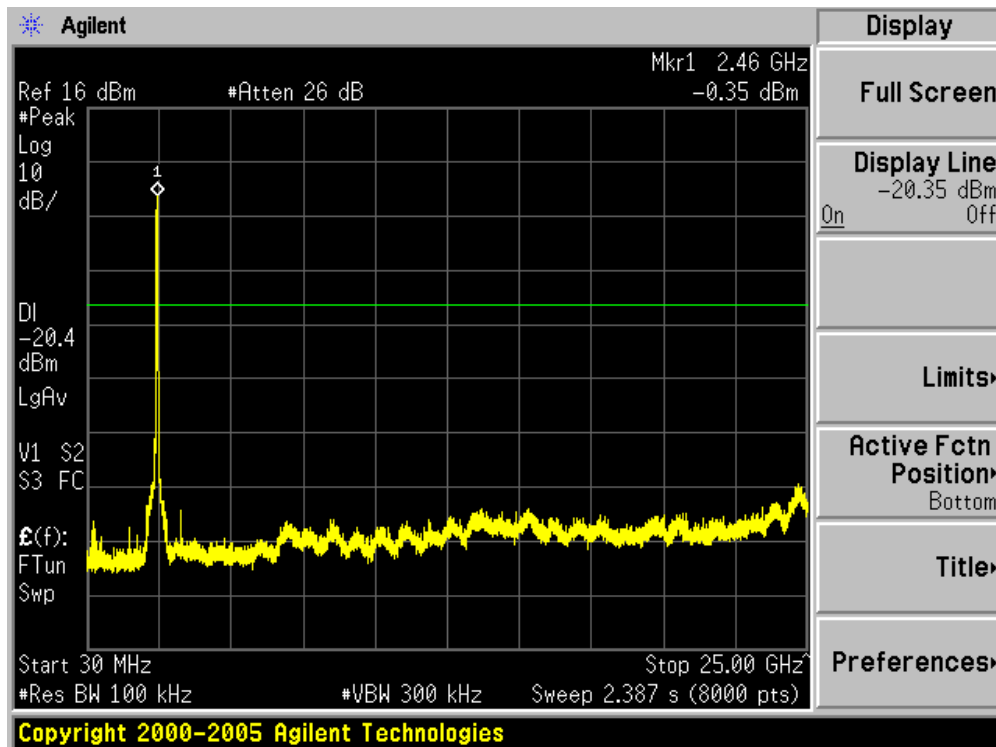
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



6. Radiated Emission Band Edge

6.1. Test Equipment

Radiated Emission / AC-2

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4408B	MY45102679	2008/06/28
EMI Test Receiver	R&S	ESCI	100573	2008/05/10
Preamplifier	Quietek	AP-025C	QT-AP003	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112B	2932	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200447304	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	04	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH002	2008/03/31

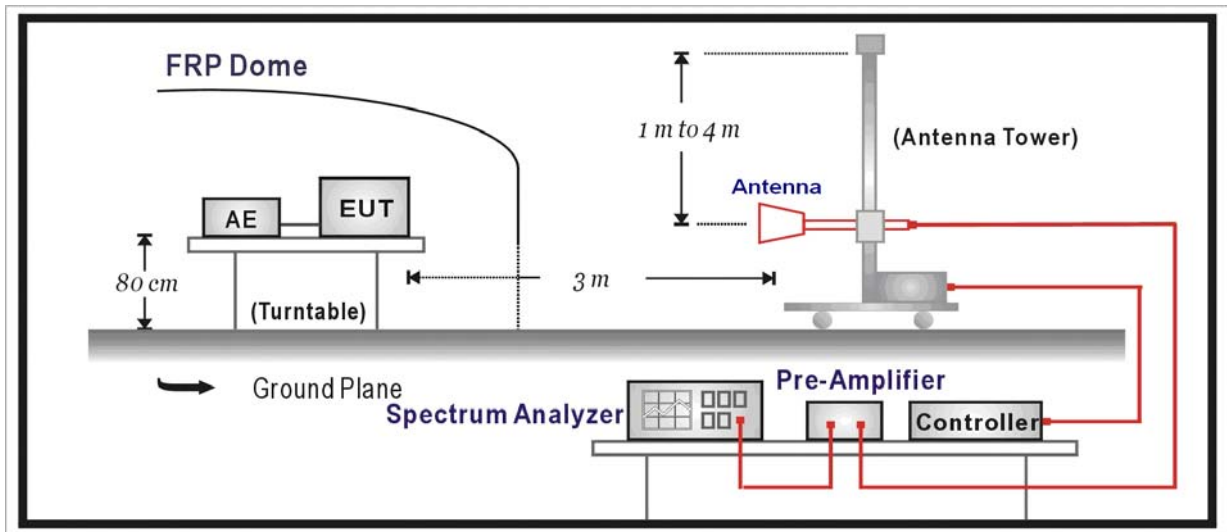
Radiated Emission / AC-3

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	N9010A	MY48030494	2008/04/24
EMI Test Receiver	R&S	ESCI	100176	2007/11/15
Preamplifier	Quietek	AP-025C	QT-AP004	2007/11/25
Preamplifier	Quietek	AP-180C	CHM-0602012	2007/11/25
Bilog Type Antenna	Schaffner	CBL6112D	22254	2007/11/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	496	2008/06/28
50ohm Coaxial Switch	Anritsu	MP59B	6200464463	2007/11/25
Coaxial Cable	Huber+Suhner	AC2-C	05	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH003	2008/03/31

Note 1: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

Note 2: The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup



6.3. Limit

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.4. Test Procedure

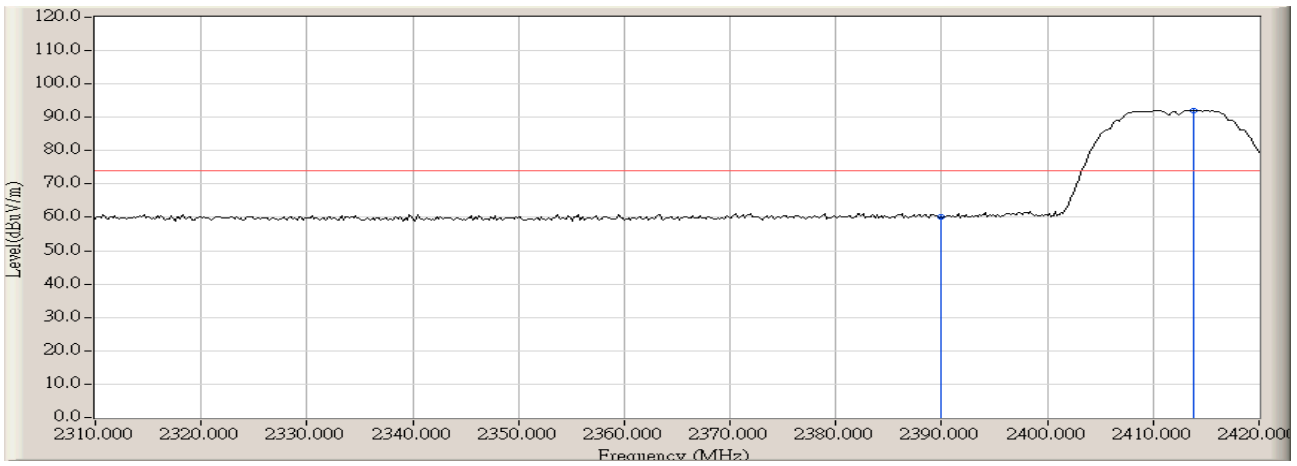
The EUT was setup according to ANSI C63.4, 2003 and tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4:2003 on radiated measurement.

6.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB

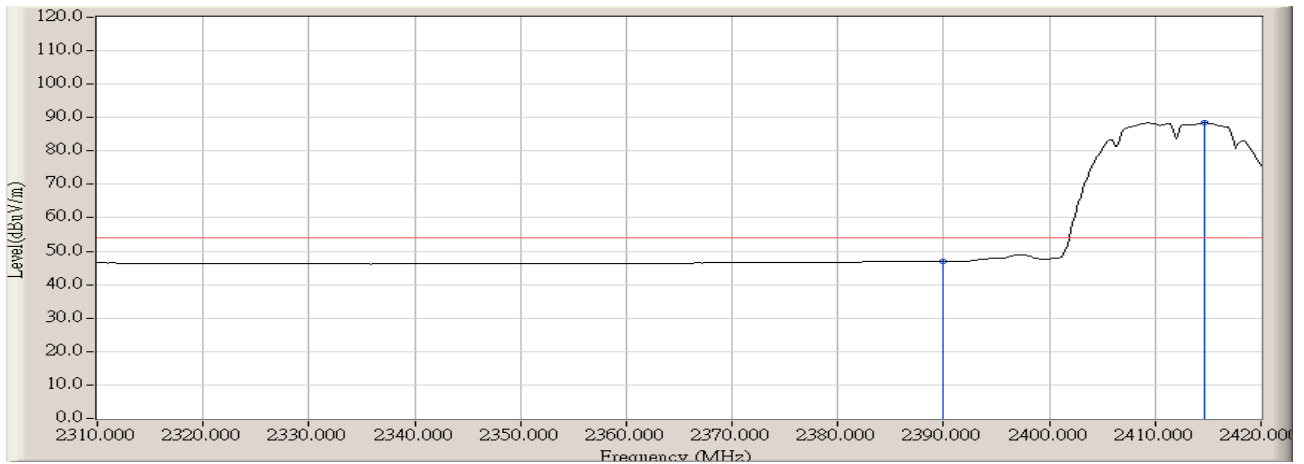
6.6. Test Result

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:23
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC0)



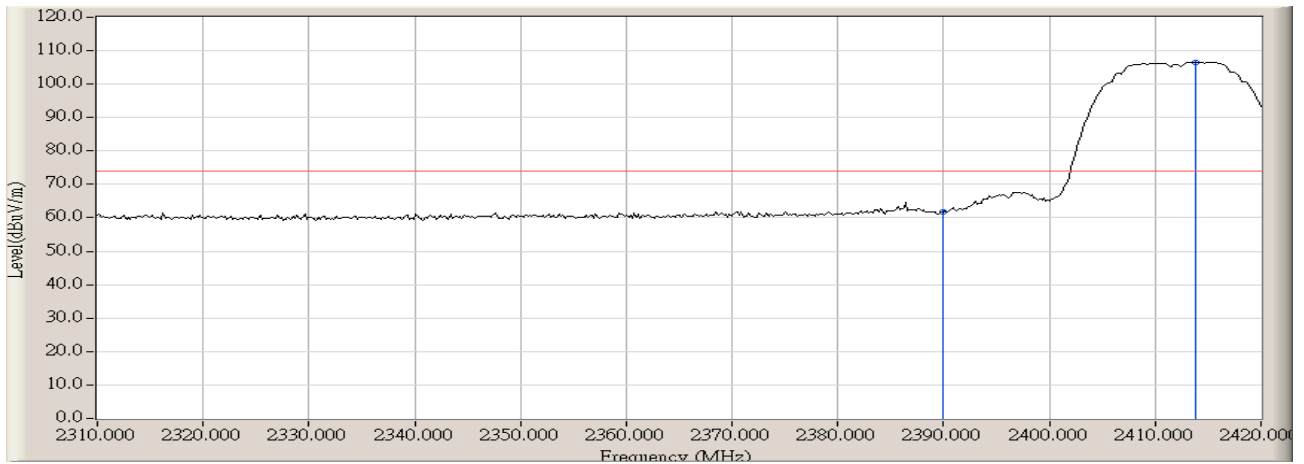
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.423	60.145	-13.825	73.970	PEAK
2	*	2413.767	32.735	59.372	92.107	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:24
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC0)



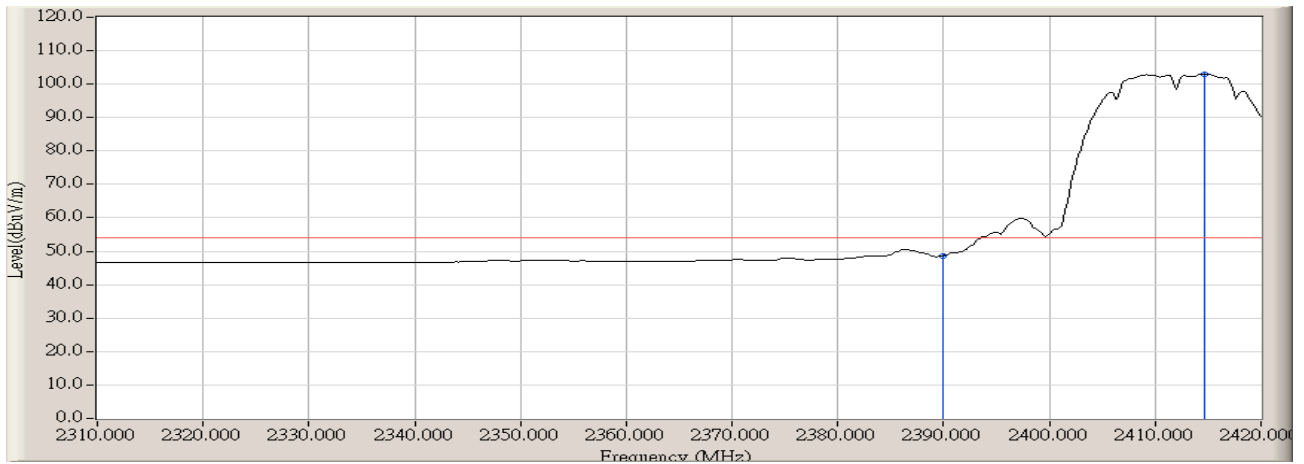
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.172	46.894	-7.076	53.970	AVERAGE
2	*	2414.683	32.737	55.745	88.482	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:19
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC0)



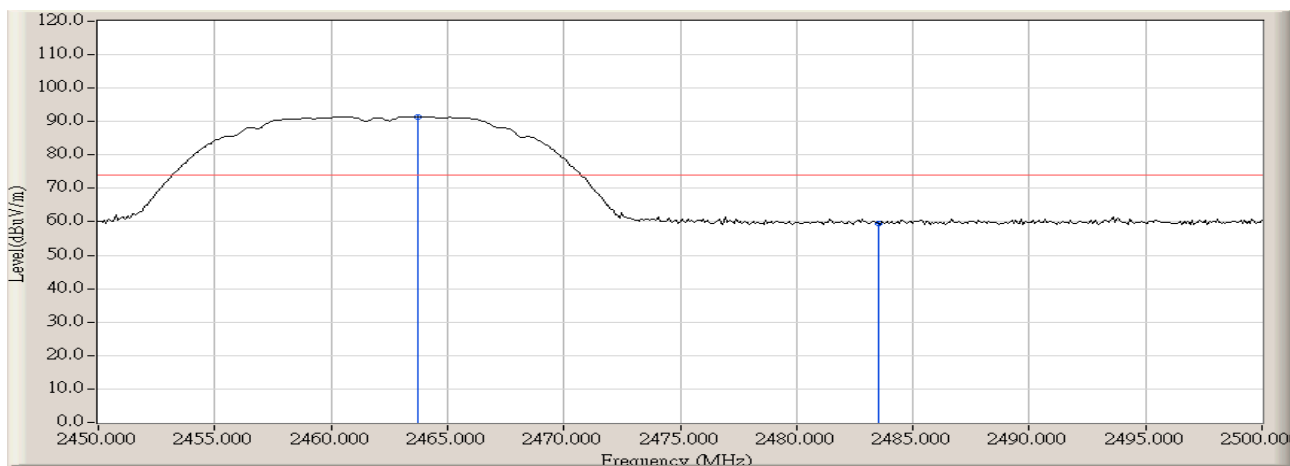
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	29.009	61.731	-12.239	73.970	PEAK
2	*	2413.767	32.735	73.814	106.549	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC0)



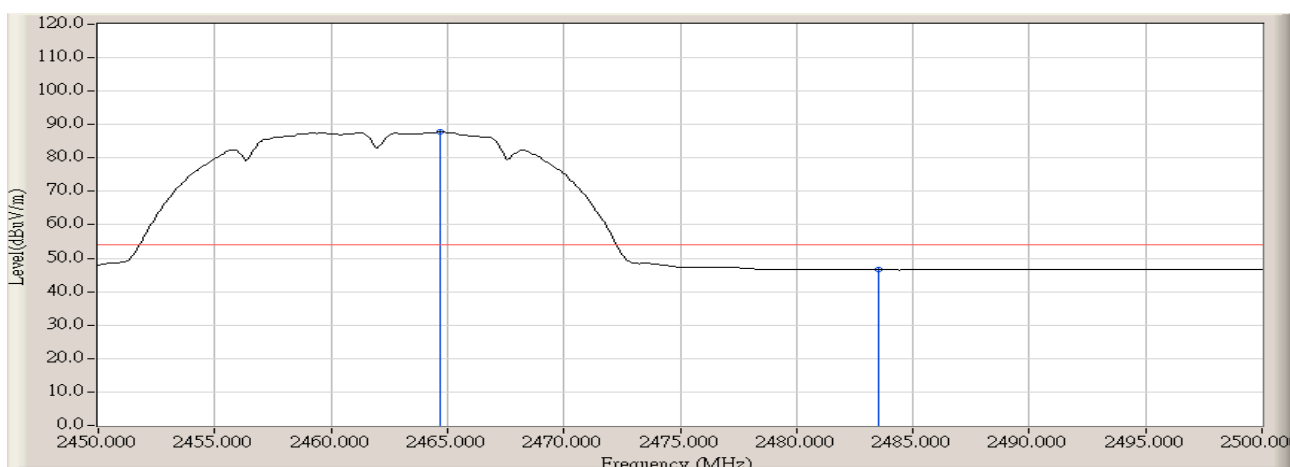
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	15.938	48.660	-5.310	53.970	AVERAGE
2	*	2414.683	32.737	70.339	103.076	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC0)



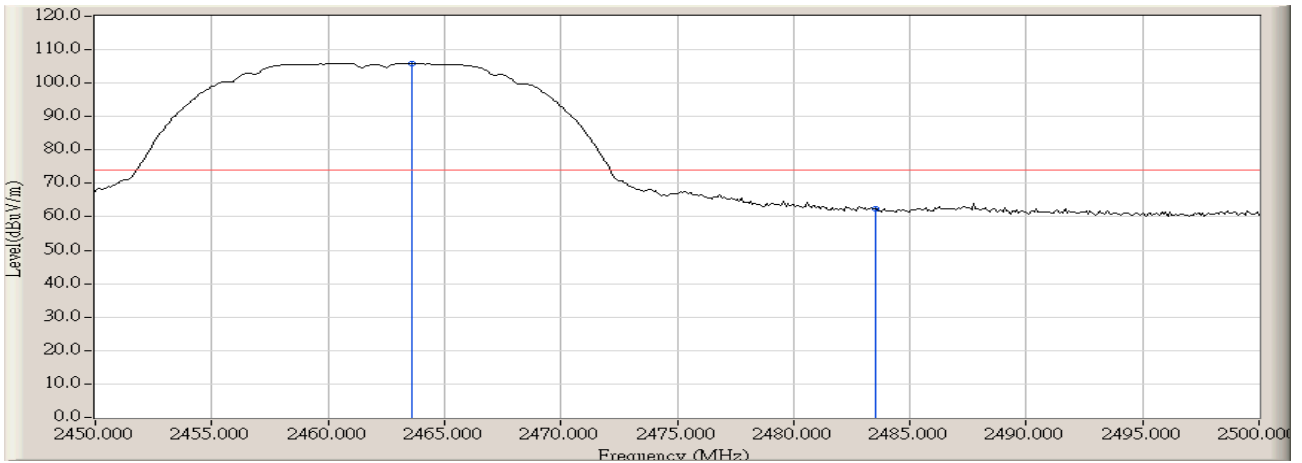
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.750	32.790	58.736	91.526	N/A	N/A	PEAK
2		2483.500	32.787	26.836	59.623	-14.347	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC0)



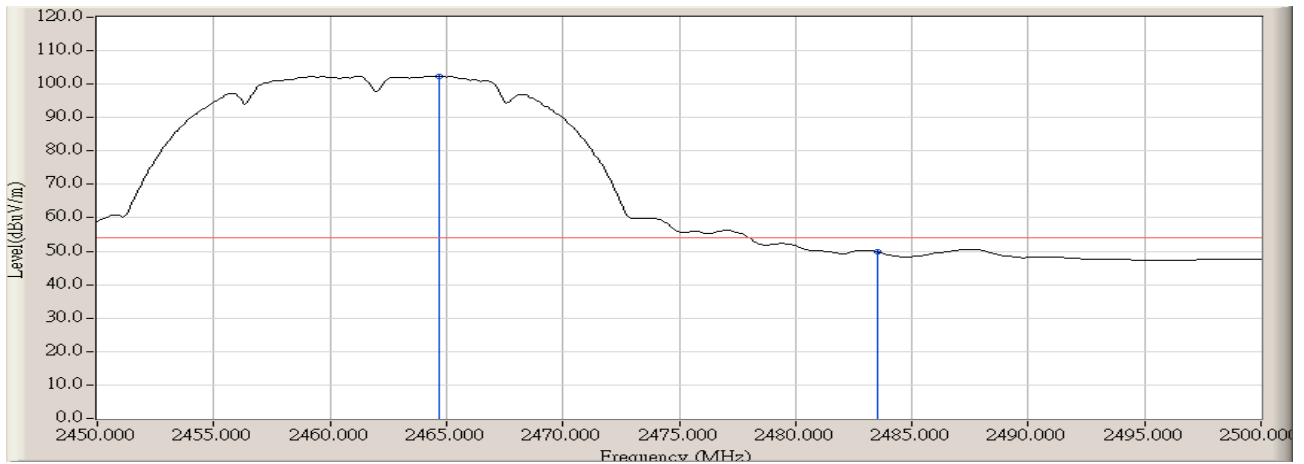
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.667	32.790	54.971	87.761	N/A	N/A	AVERAGE
2		2483.500	32.787	13.788	46.575	-7.395	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:29
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC0)



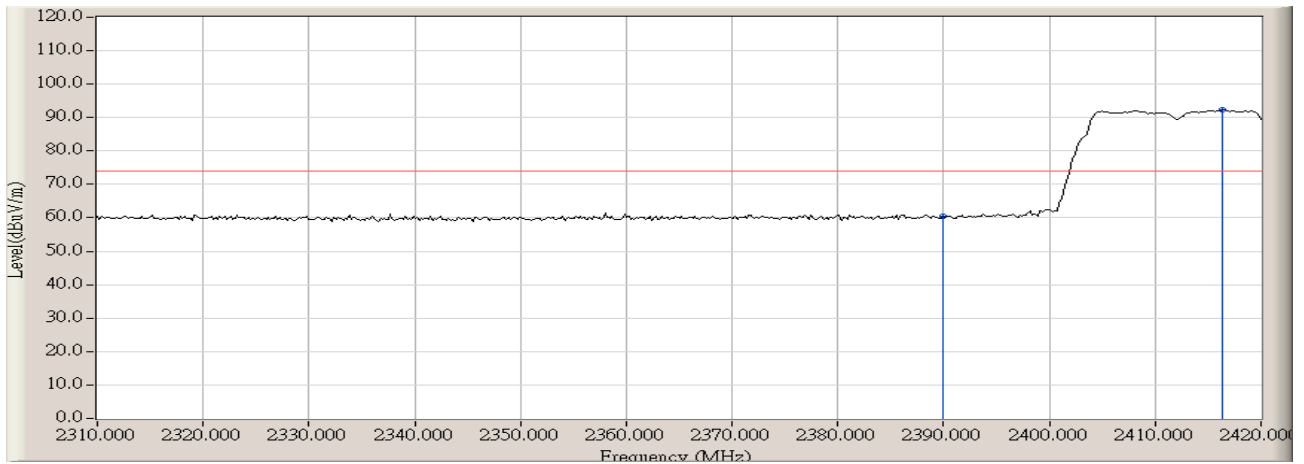
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.583	32.790	73.182	105.972	N/A	N/A	PEAK
2		2483.500	32.787	29.538	62.325	-11.645	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:30
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC0)



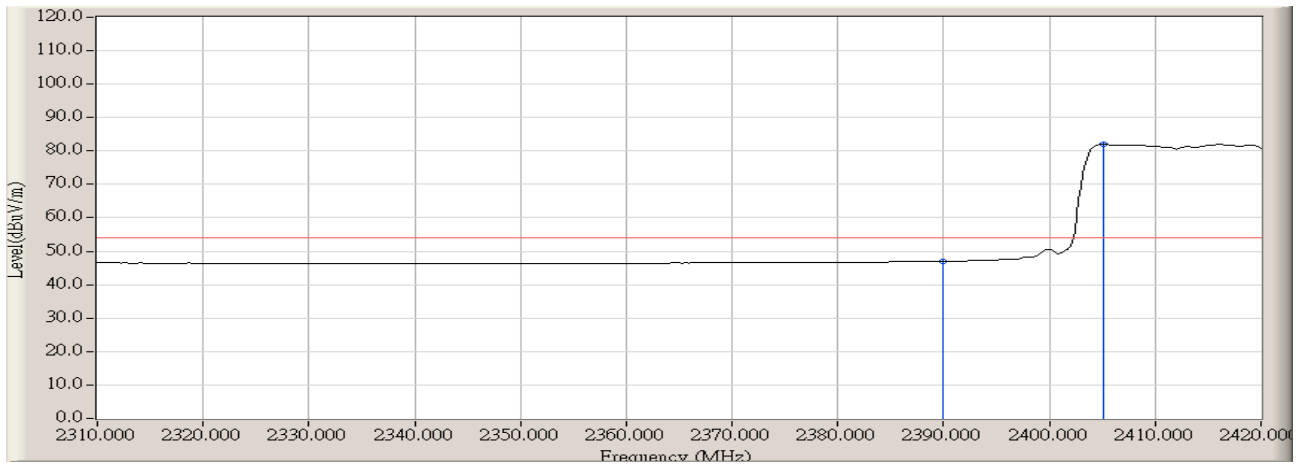
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.667	32.790	69.669	102.459	N/A	N/A	AVERAGE
2		2483.500	32.787	17.012	49.799	-4.171	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:42
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC0)



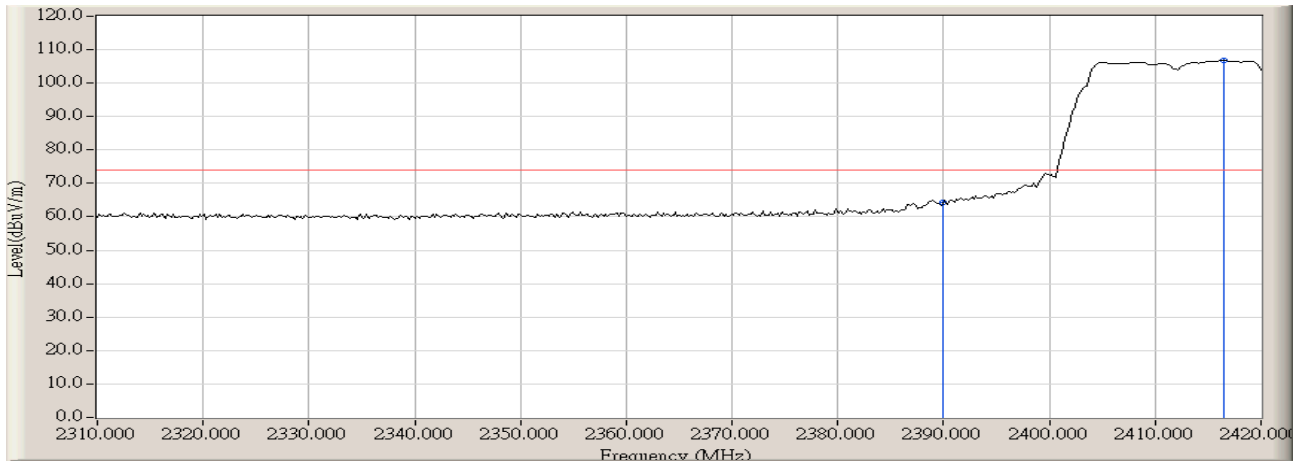
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.685	60.407	-13.563	73.970	PEAK
2	*	2416.333	32.740	59.557	92.296	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:43
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC0)



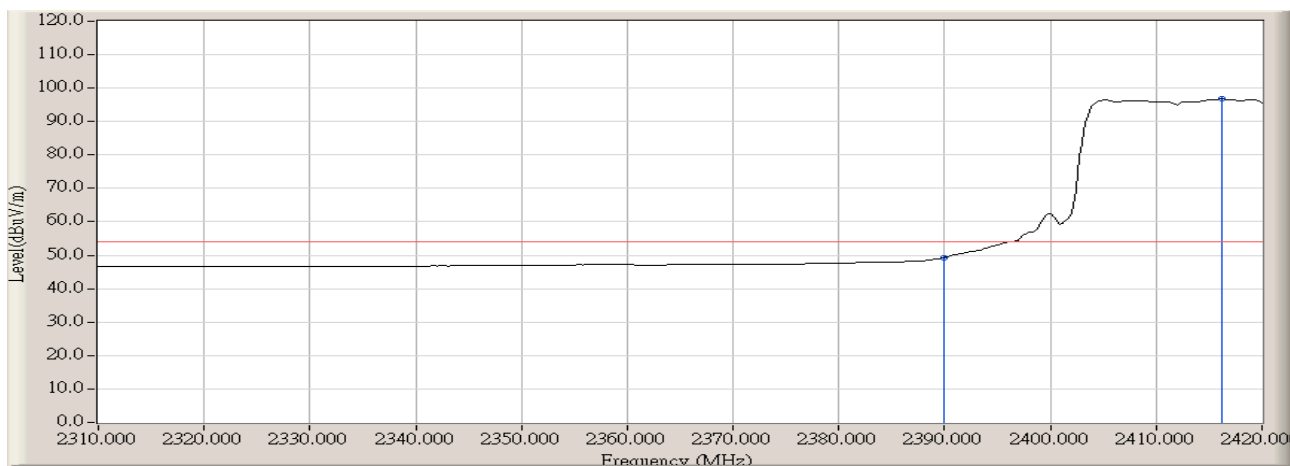
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.273	46.995	-6.975	53.970	AVERAGE
2	*	2405.150	32.726	49.401	82.128	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC0)



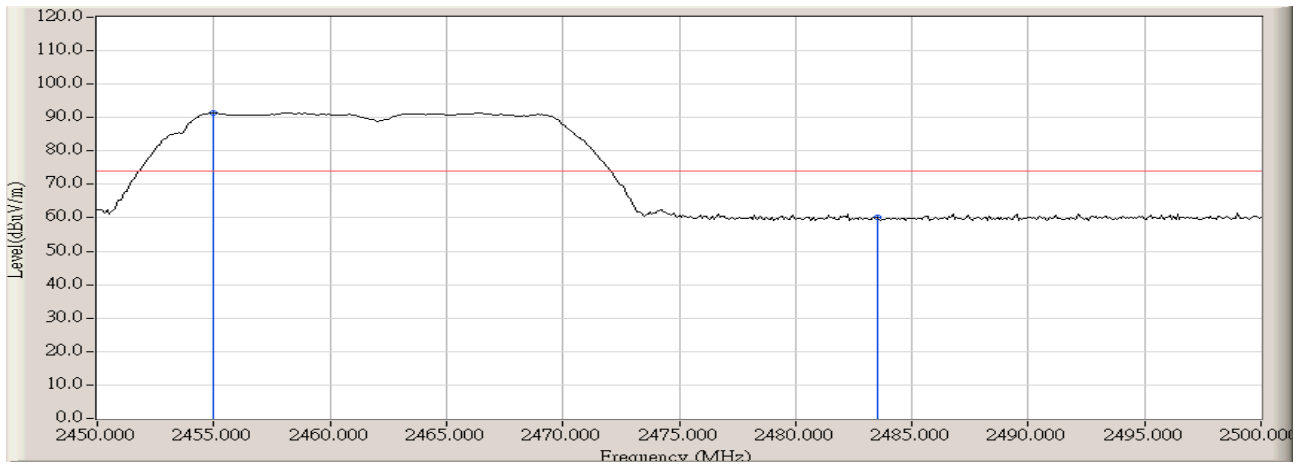
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	31.490	64.212	-9.758	73.970	PEAK
2	*	2416.517	32.740	74.036	106.776	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:39
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC0)



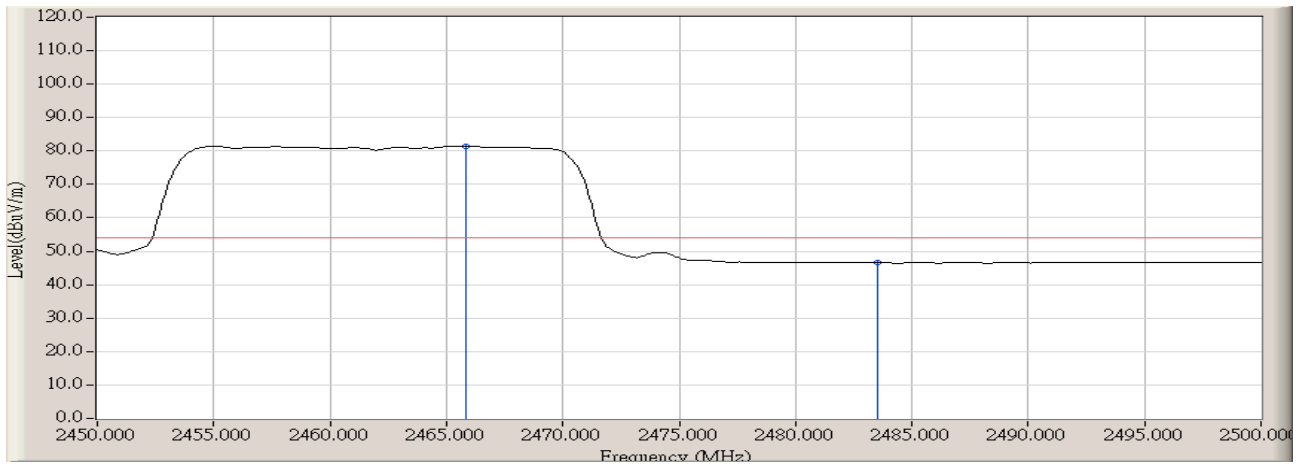
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	16.619	49.341	-4.629	53.970	AVERAGE
2	*	2416.150	32.739	63.960	96.699	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:51
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC0)



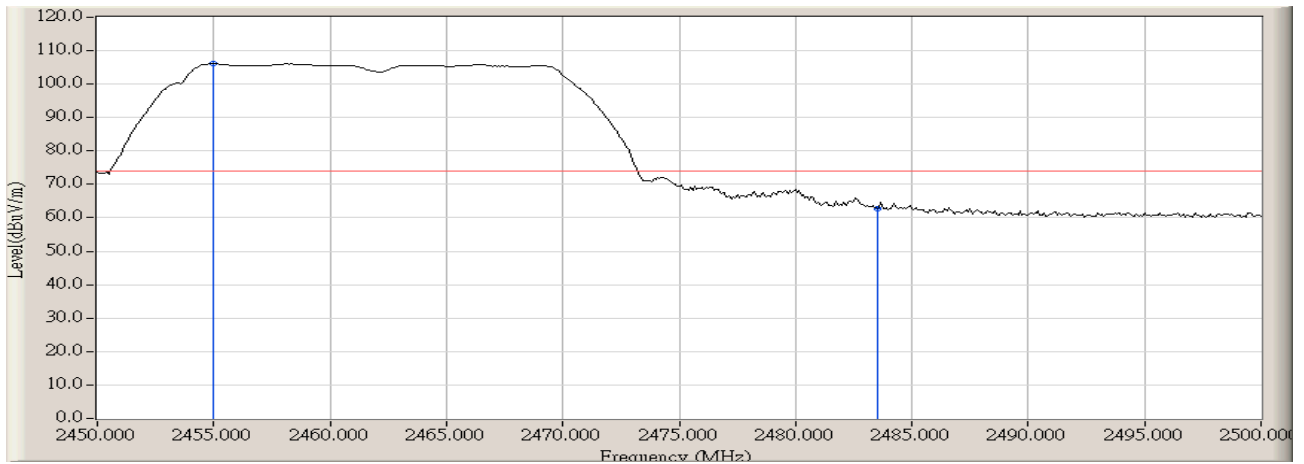
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.000	32.786	58.506	91.292	N/A	N/A	PEAK
2		2483.500	32.787	27.350	60.137	-13.833	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:51
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC0)



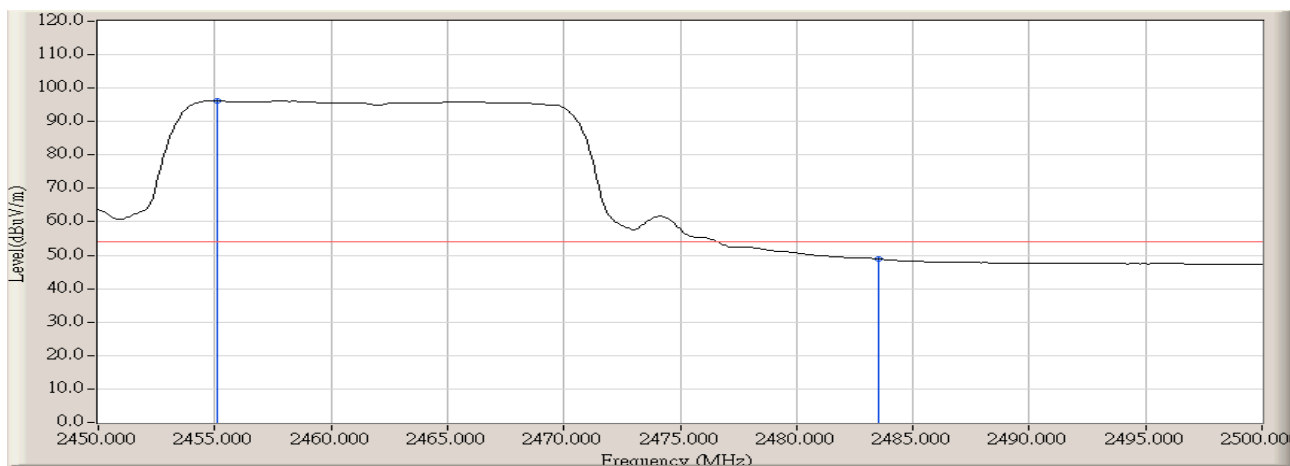
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.833	32.790	48.587	81.377	N/A	N/A	AVERAGE
2		2483.500	32.787	13.733	46.520	-7.450	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC0)



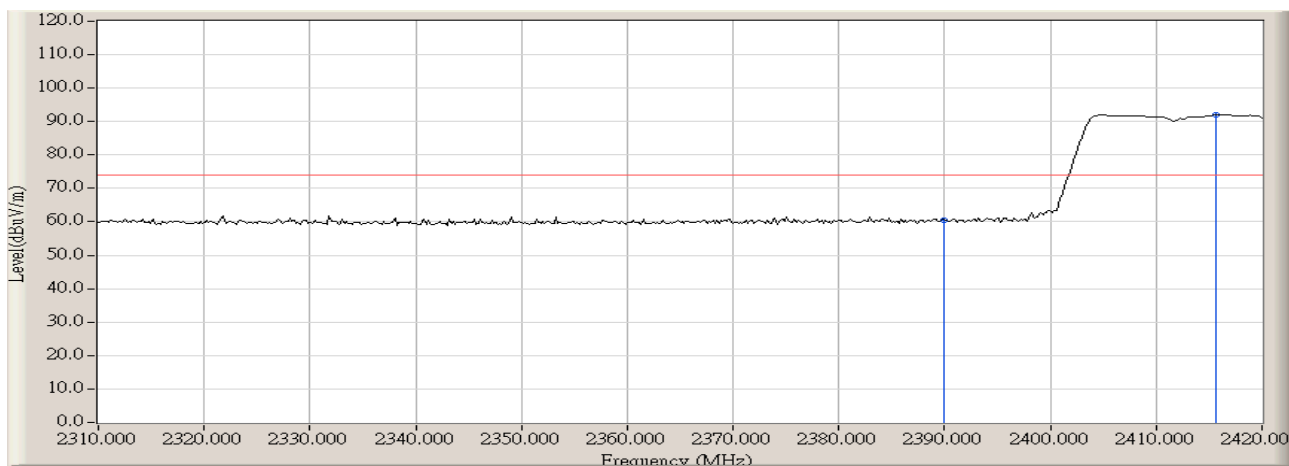
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.000	32.786	73.335	106.121	N/A	N/A	PEAK
2		2483.500	32.787	29.893	62.680	-11.290	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:48
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC0)



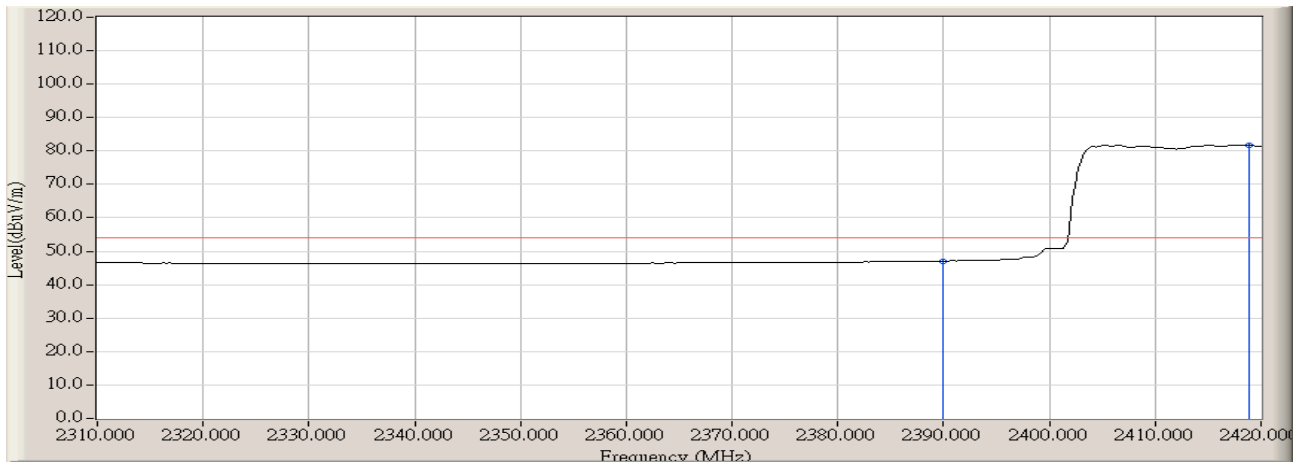
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.083	32.786	63.452	96.238	N/A	N/A	AVERAGE
2		2483.500	32.787	16.118	48.905	-5.065	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:00
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC0)



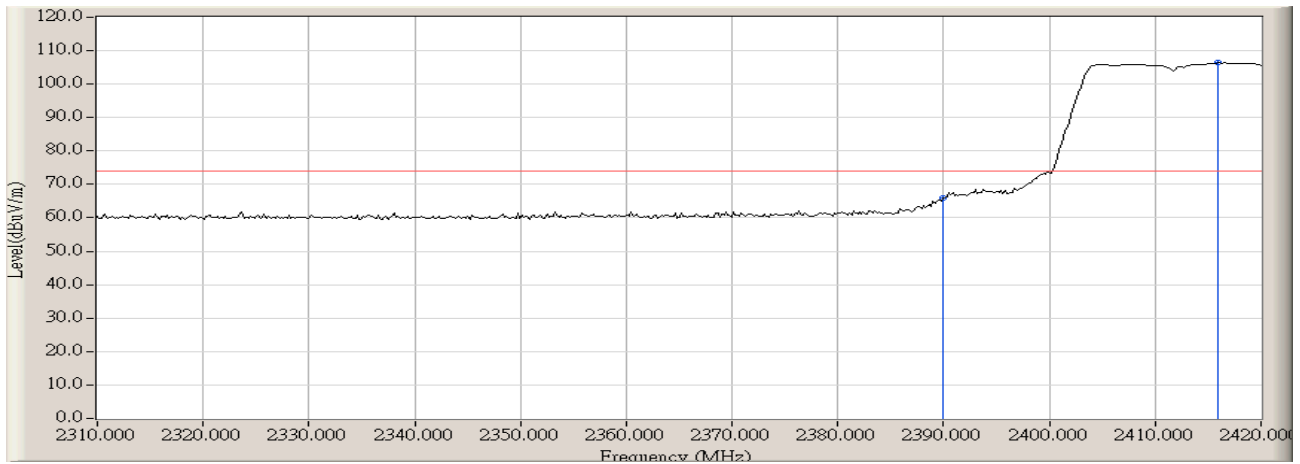
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.915	60.637	-13.333	73.970	PEAK
2	*	2415.600	32.738	59.279	92.017	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:01
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC0)



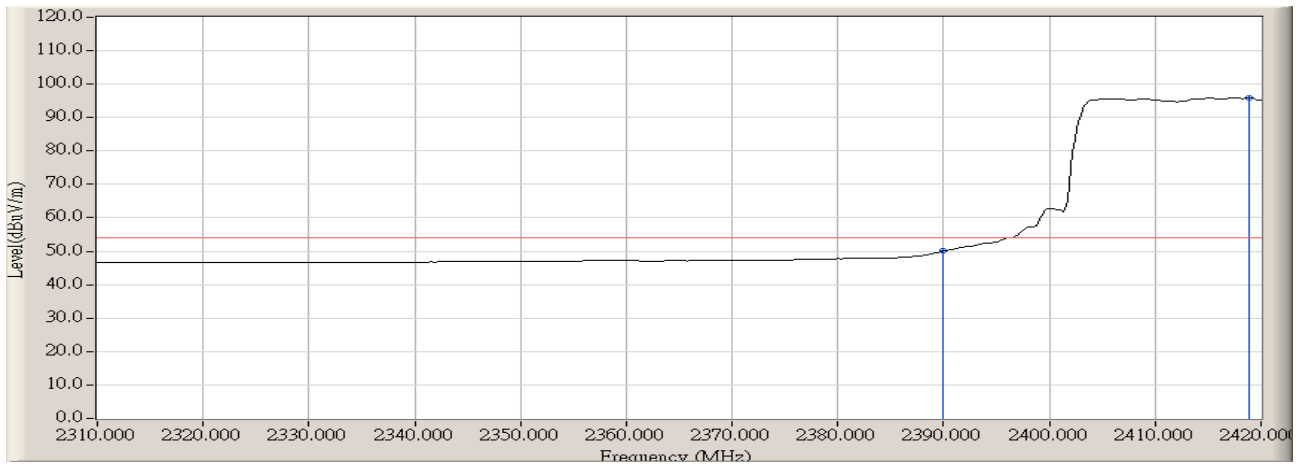
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.364	47.086	-6.884	53.970	AVERAGE
2	*	2418.900	32.744	49.090	81.834	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:57
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC0)



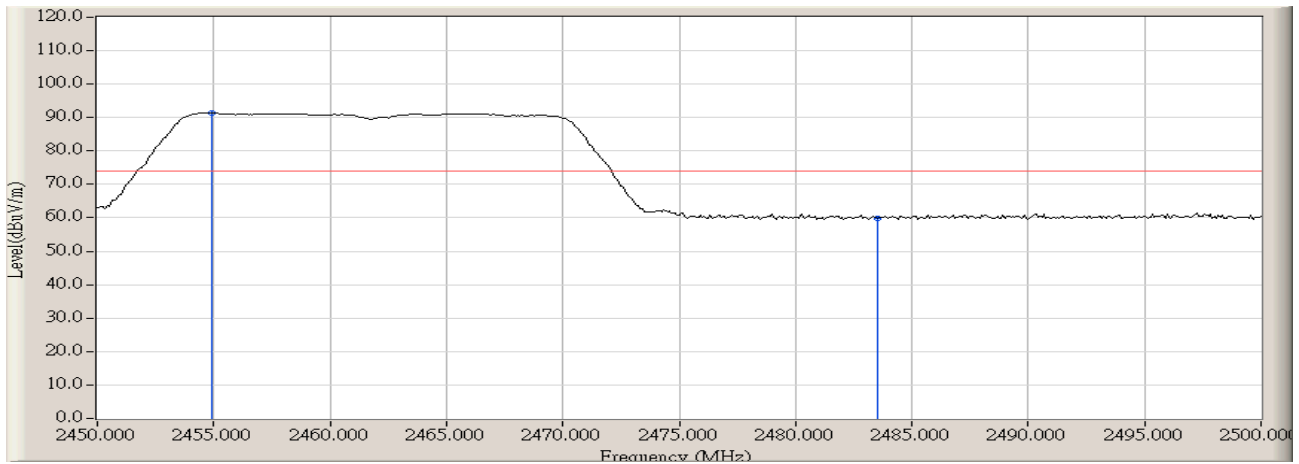
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	33.160	65.882	-8.088	73.970	PEAK
2	*	2415.967	32.739	73.613	106.352	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 19:57
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC0)



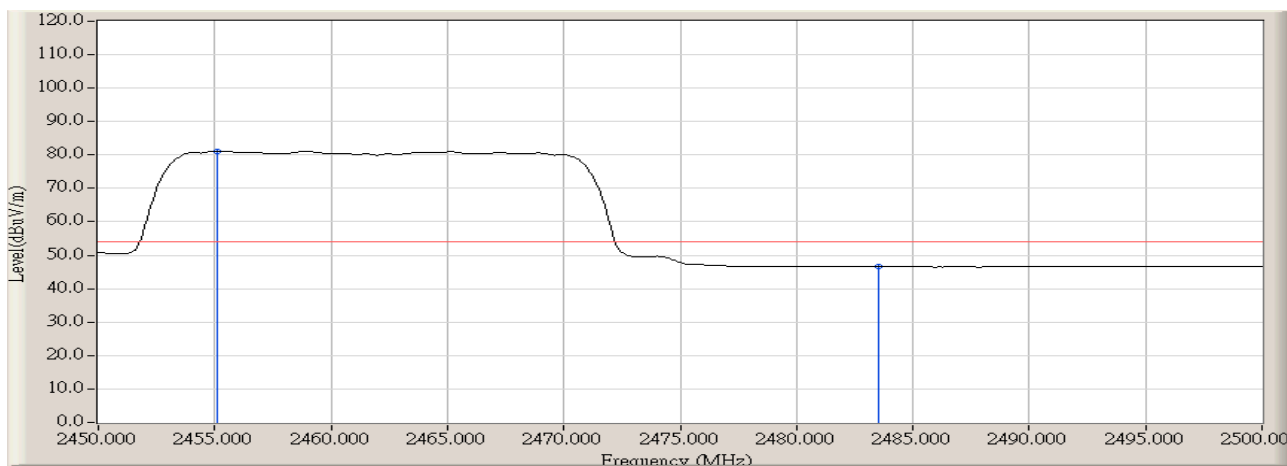
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	17.387	50.109	-3.861	53.970	AVERAGE
2	*	2418.900	32.744	63.206	95.950	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:11
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC0)



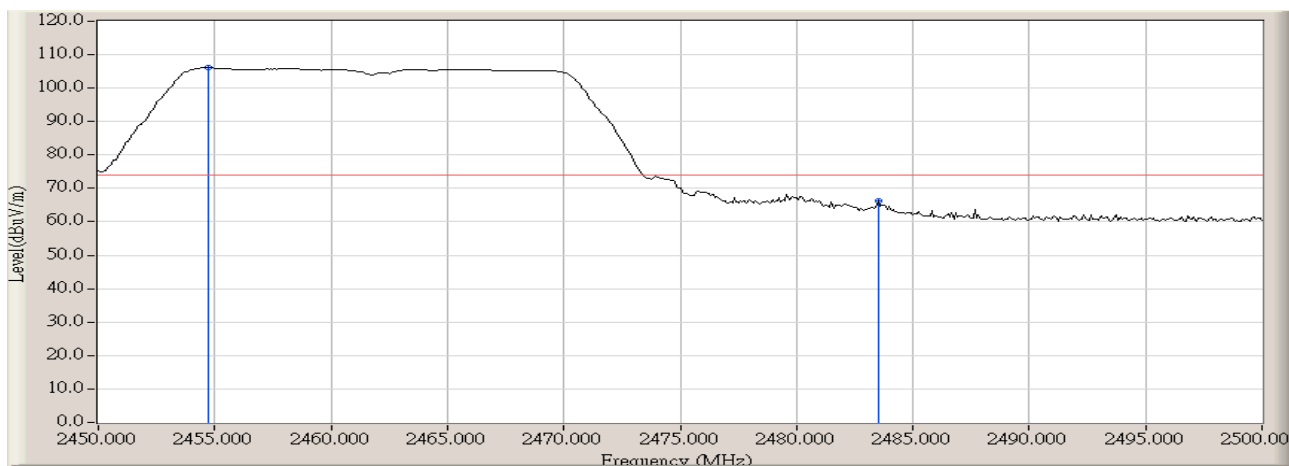
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.917	32.786	58.588	91.374	N/A	N/A	PEAK
2		2483.500	32.787	27.133	59.920	-14.050	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:12
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC0)



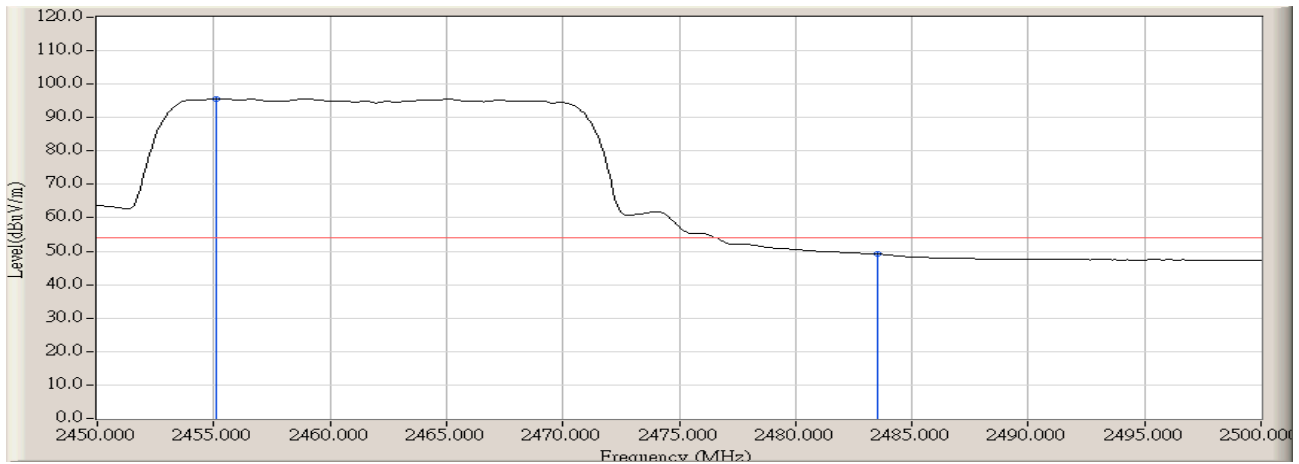
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.083	32.786	48.357	81.143	N/A	N/A	AVERAGE
2		2483.500	32.787	13.769	46.556	-7.414	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:05
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC0)



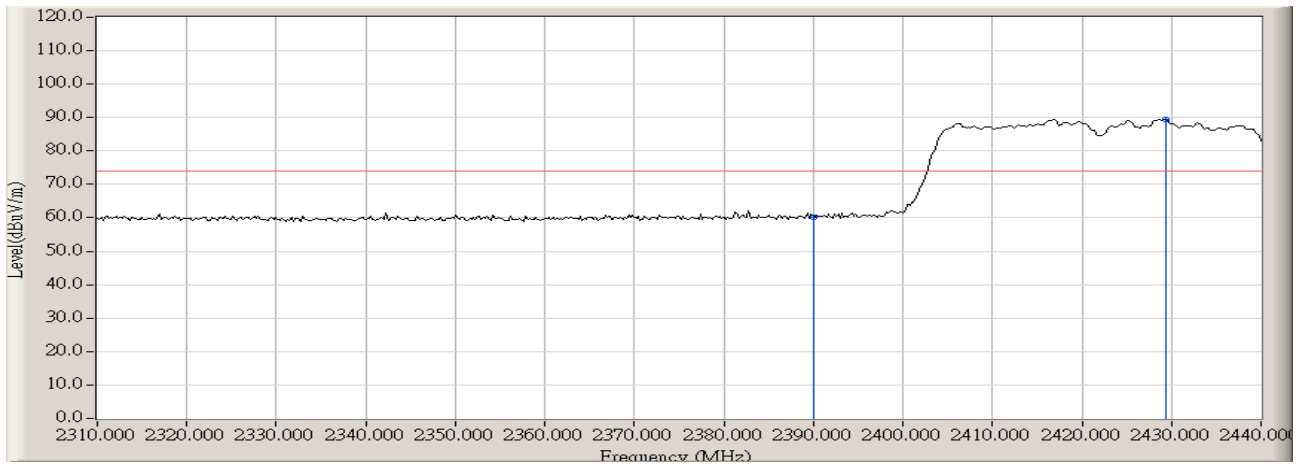
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.750	32.786	73.293	106.079	N/A	N/A	PEAK
2		2483.500	32.787	33.442	66.229	-7.741	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:05
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC0)



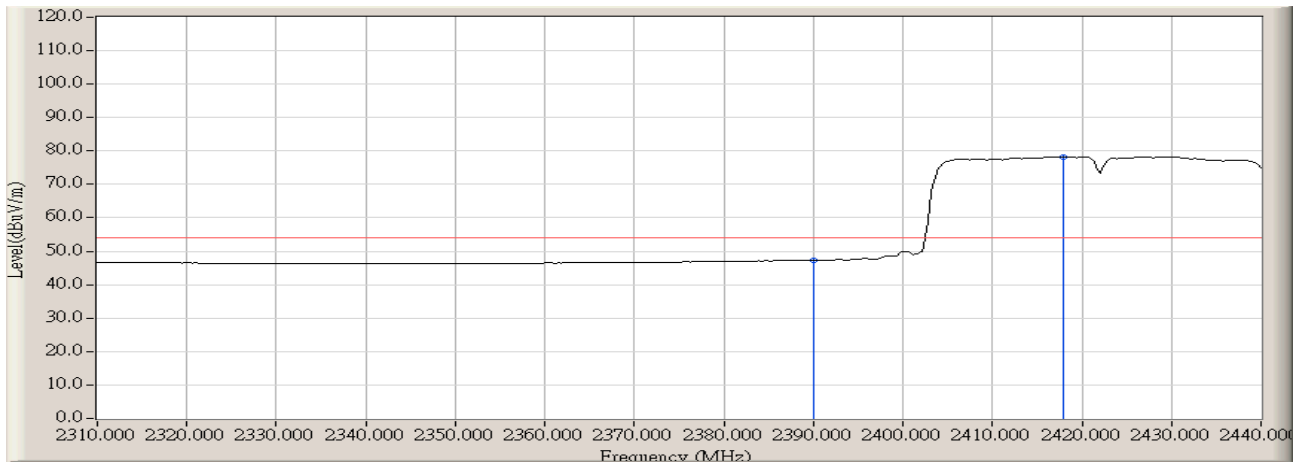
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.083	32.786	62.870	95.656	N/A	N/A	AVERAGE
2		2483.500	32.787	16.399	49.186	-4.784	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:24
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0)



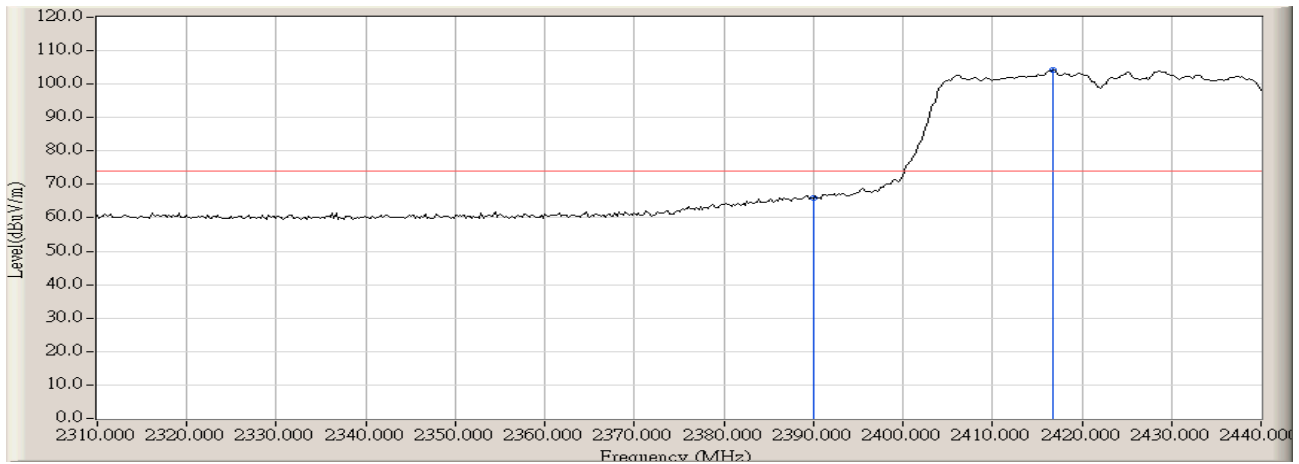
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.537	60.259	-13.711	73.970	PEAK
2	*	2429.383	32.761	56.664	89.426	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:25
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0)



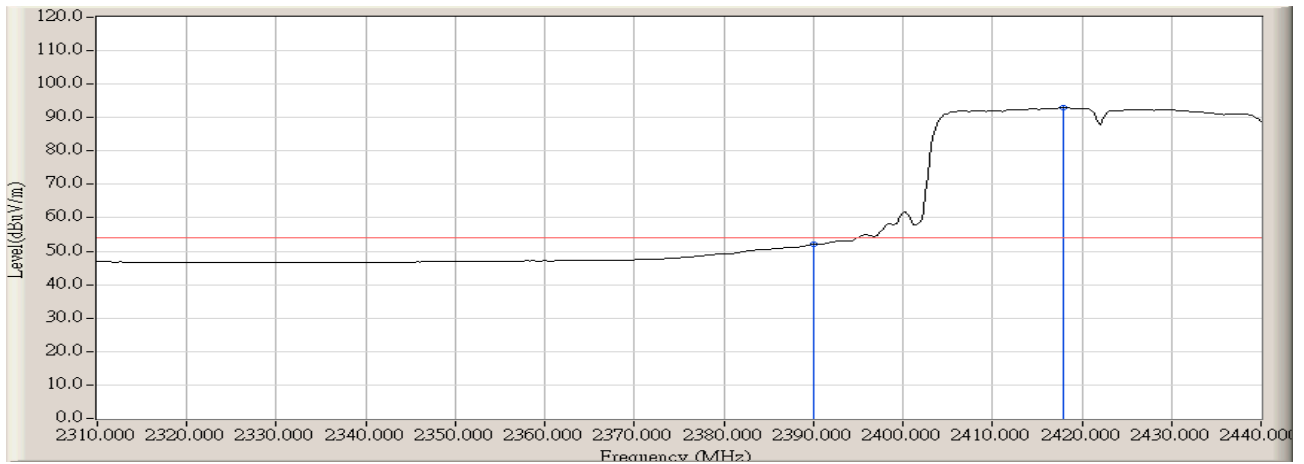
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.659	47.381	-6.589	53.970	AVERAGE
2	*	2417.900	32.742	45.545	78.287	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0)



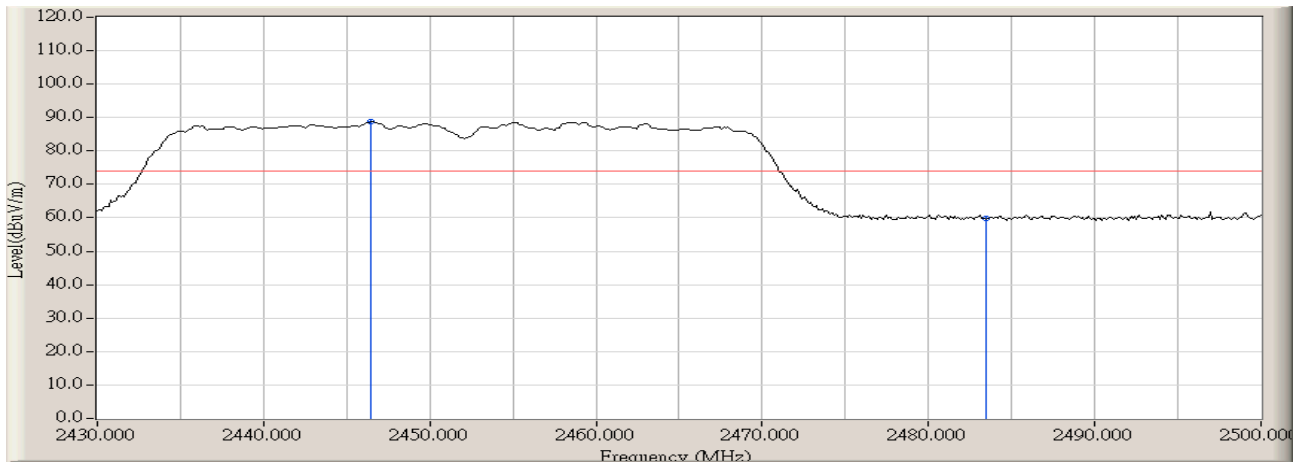
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	33.164	65.886	-8.084	73.970	PEAK
2	*	2416.817	32.741	71.365	104.105	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:17
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC0)



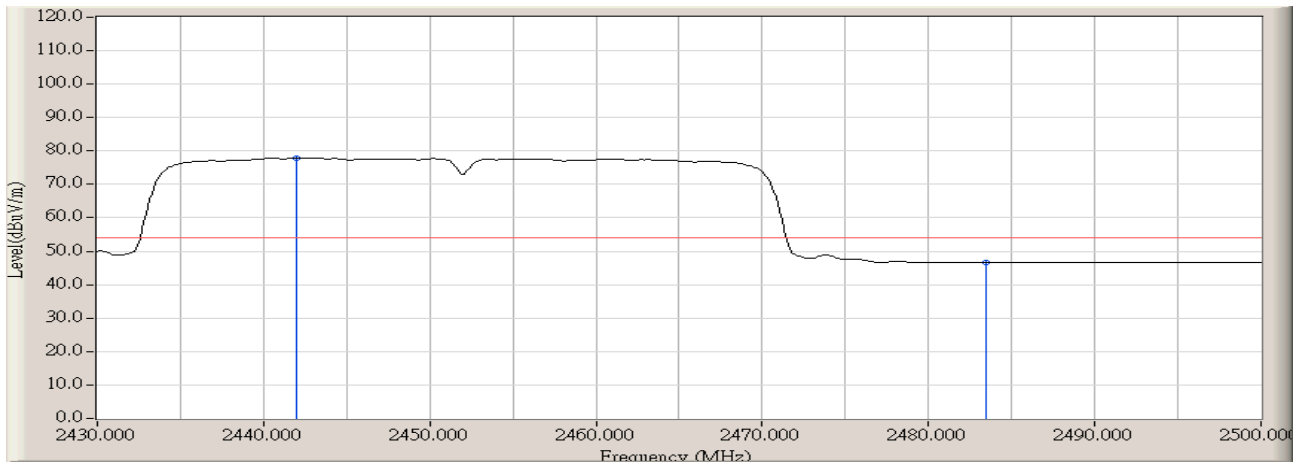
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	19.341	52.063	-1.907	53.970	AVERAGE
2	*	2417.900	32.742	60.132	92.874	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:33
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC0)



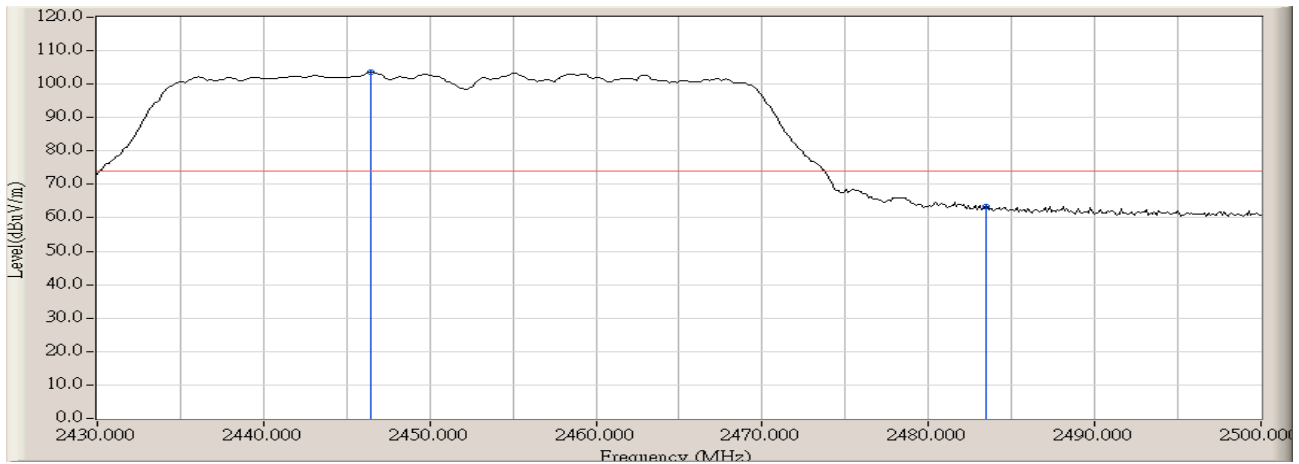
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.450	32.781	55.909	88.690	N/A	N/A	PEAK
2		2483.500	32.787	26.990	59.777	-14.193	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:34
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC0)



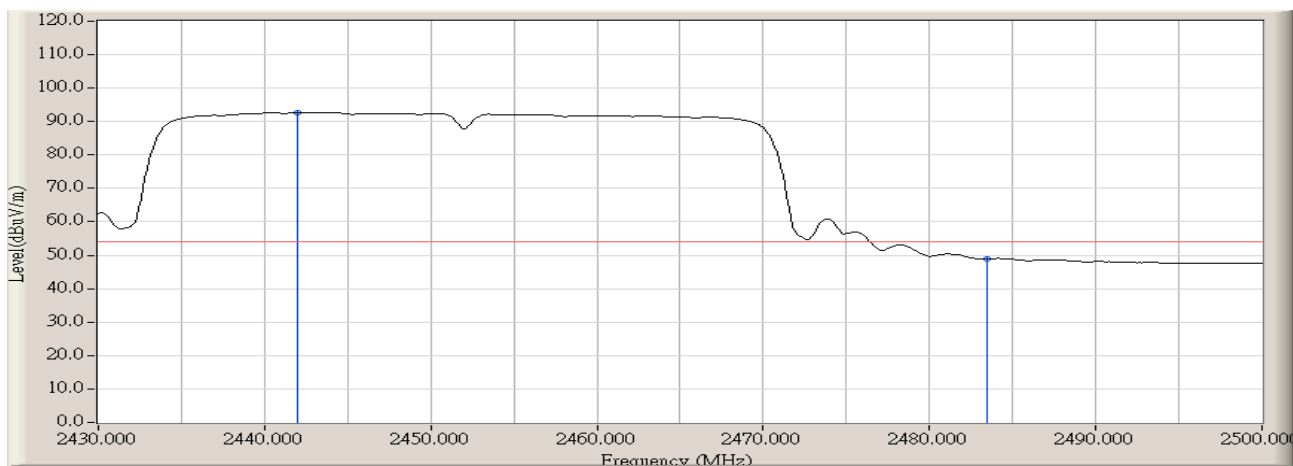
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2442.017	32.777	45.147	77.923	N/A	N/A	AVERAGE
2		2483.500	32.787	13.849	46.636	-7.334	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:30
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC0)



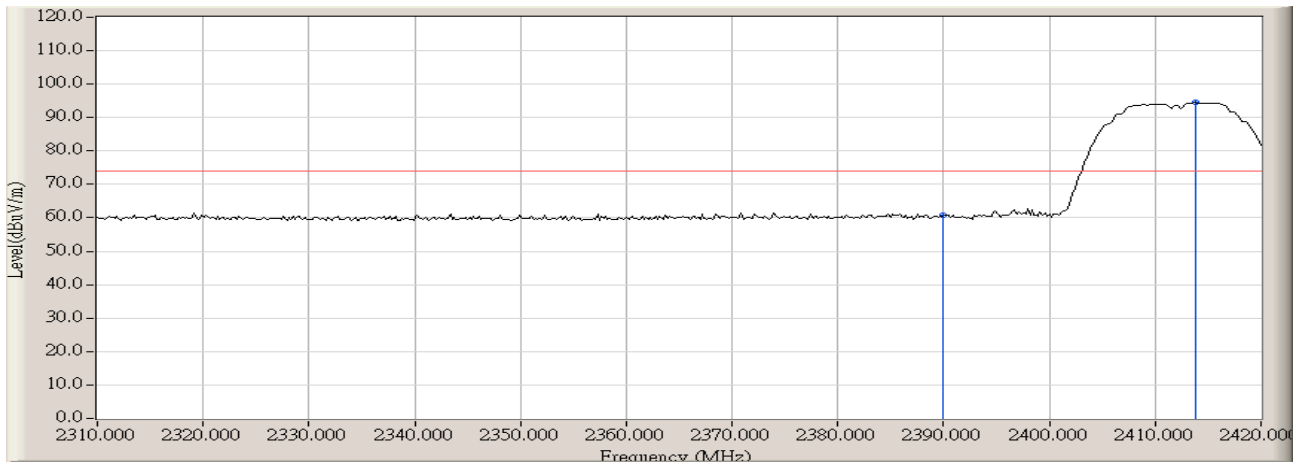
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.450	32.781	70.706	103.487	N/A	N/A	PEAK
2		2483.500	32.787	30.751	63.538	-10.432	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:31
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC0)



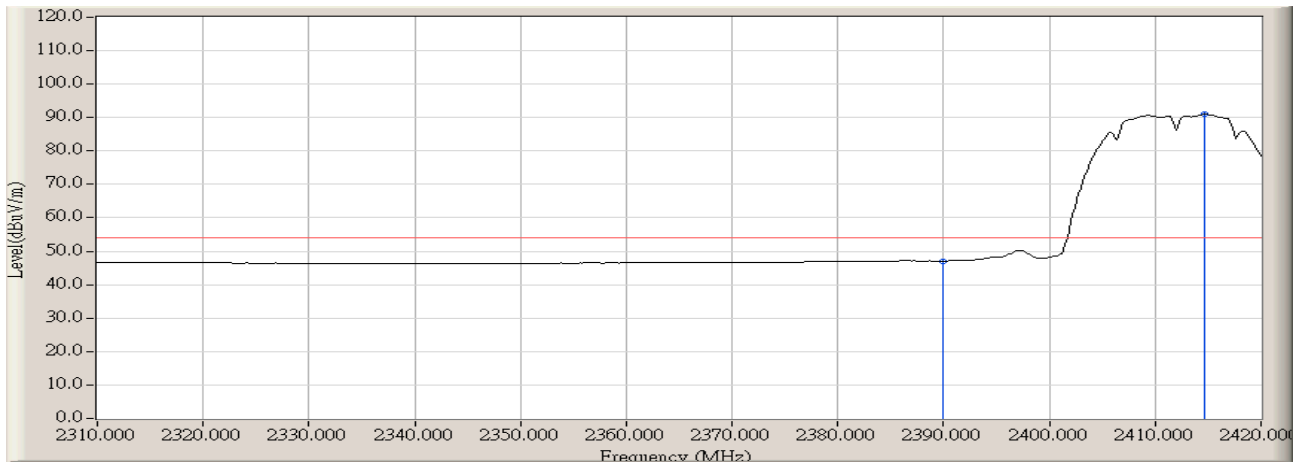
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2442.017	32.777	60.023	92.799	N/A	N/A	AVERAGE
2		2483.500	32.787	16.135	48.922	-5.048	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC1)



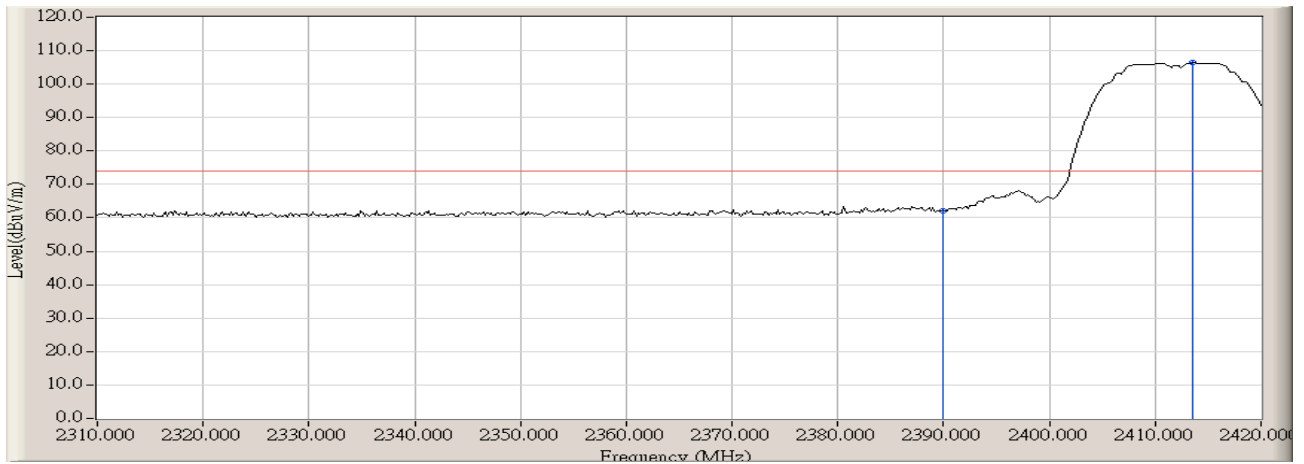
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.984	60.706	-13.264	73.970	PEAK
2	*	2413.767	32.735	61.690	94.425	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC1)



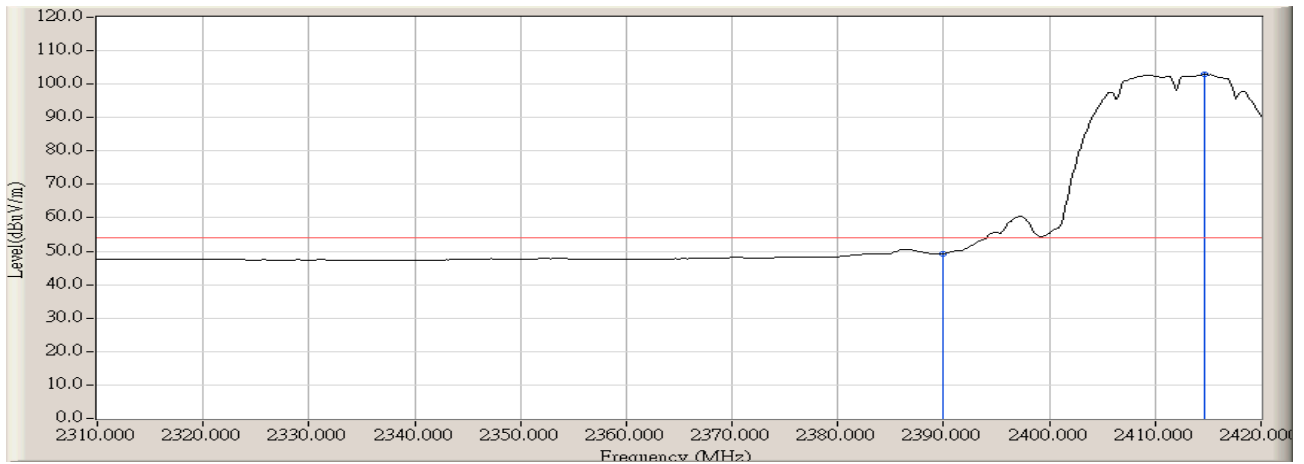
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.373	47.095	-6.875	53.970	AVERAGE
2	*	2414.683	32.737	58.316	91.053	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:38
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC1)



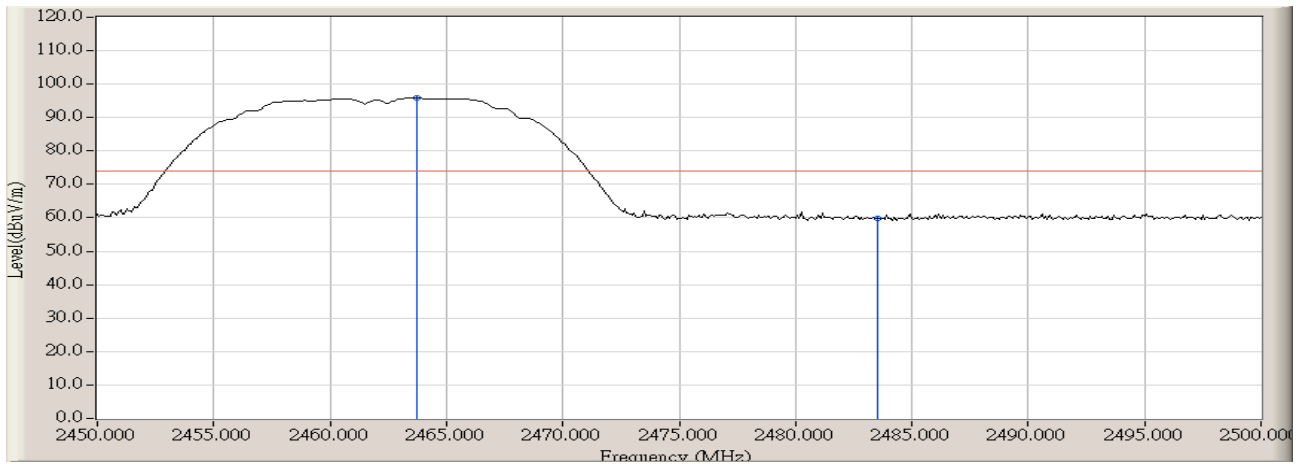
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	29.492	62.214	-11.756	73.970	PEAK
2	*	2413.583	32.734	73.604	106.339	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:38
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2412MHz (DAC1)



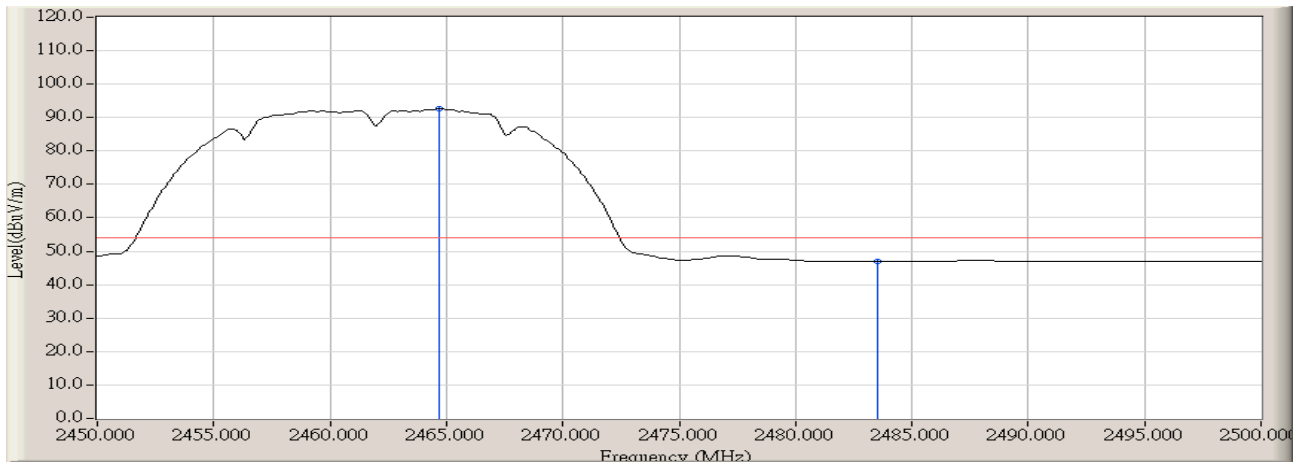
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	16.590	49.312	-4.658	53.970	AVERAGE
2	*	2414.683	32.737	70.259	102.996	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC1)



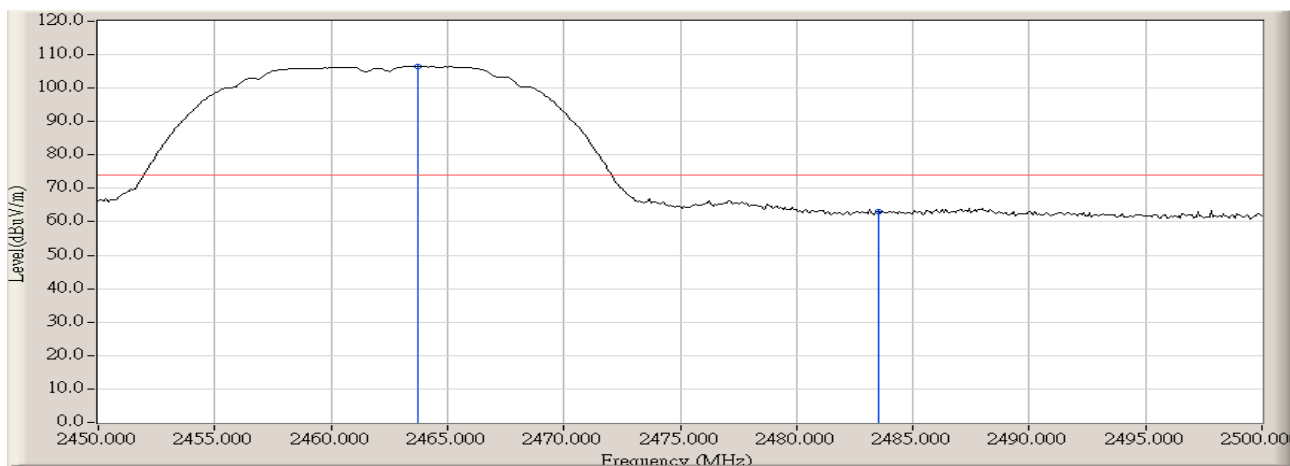
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.750	32.790	63.033	95.823	N/A	N/A	PEAK
2		2483.500	32.787	26.906	59.693	-14.277	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:49
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC1)



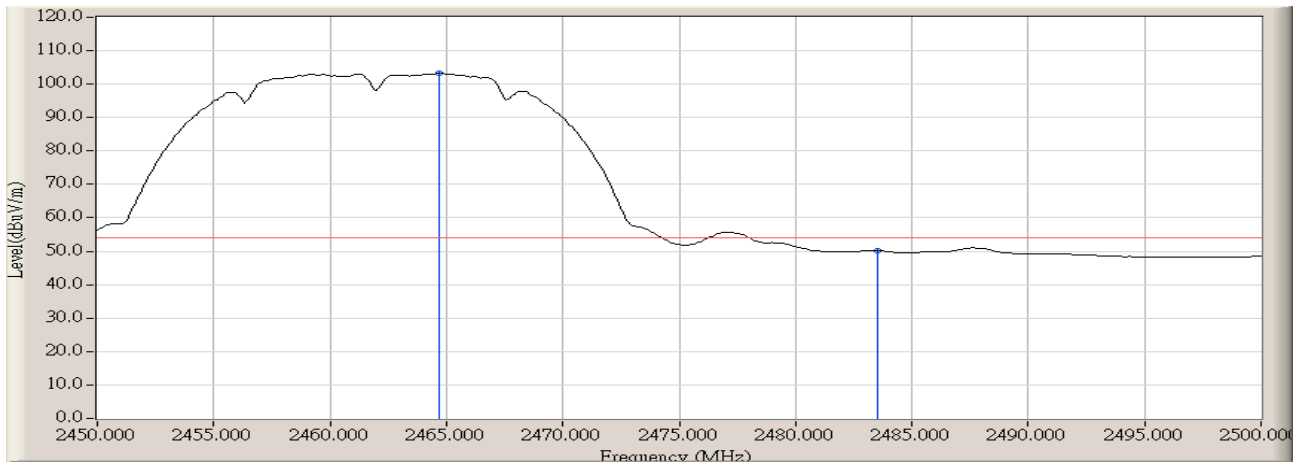
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.667	32.790	59.770	92.560	N/A	N/A	AVERAGE
2		2483.500	32.787	14.323	47.110	-6.860	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC1)



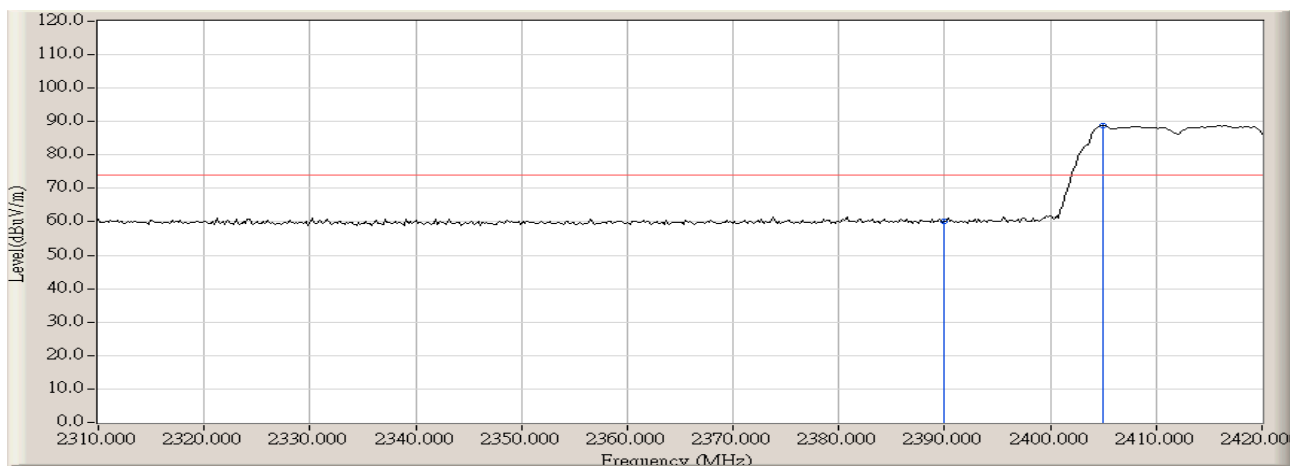
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.750	32.790	73.741	106.531	N/A	N/A	PEAK
2		2483.500	32.787	30.161	62.948	-11.022	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/16 - 20:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 1: Transmit by 802.11b at channel 2462MHz (DAC1)



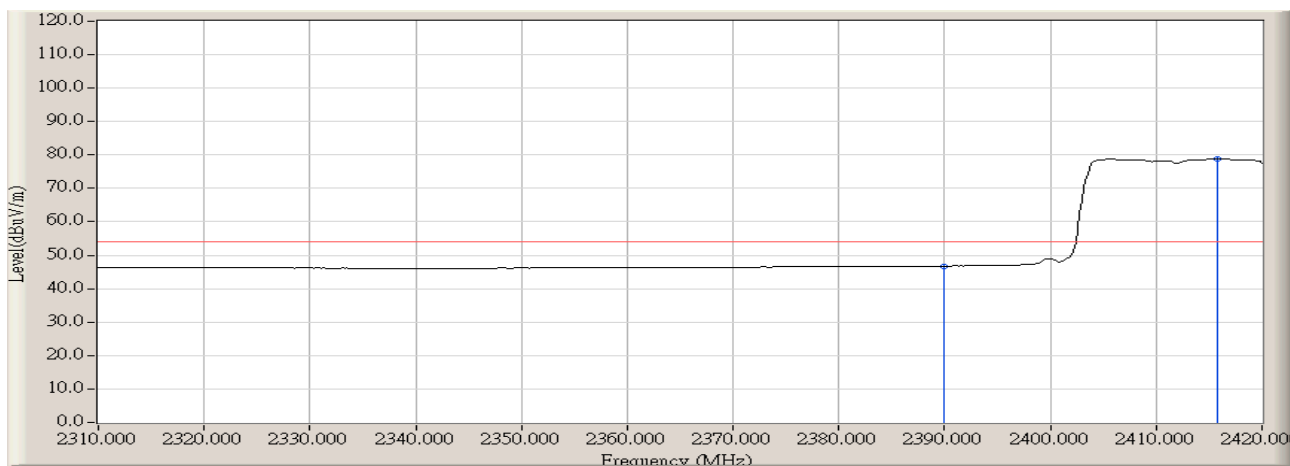
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.667	32.790	70.493	103.283	N/A	N/A	AVERAGE
2		2483.500	32.787	17.399	50.186	-3.784	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC1)



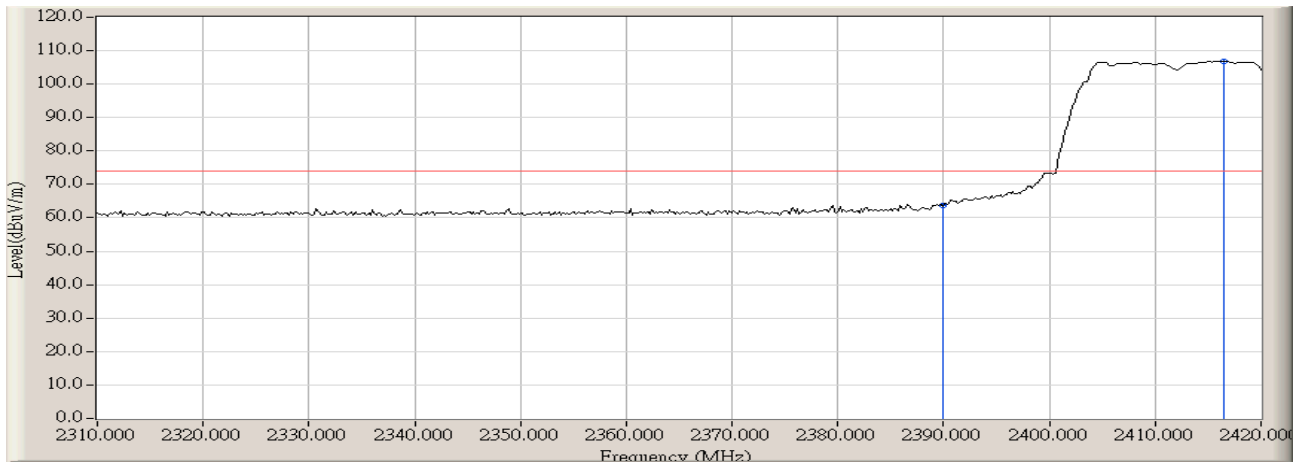
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.521	60.243	-13.727	73.970	PEAK
2	*	2404.967	32.727	55.990	88.716	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:36
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC1)



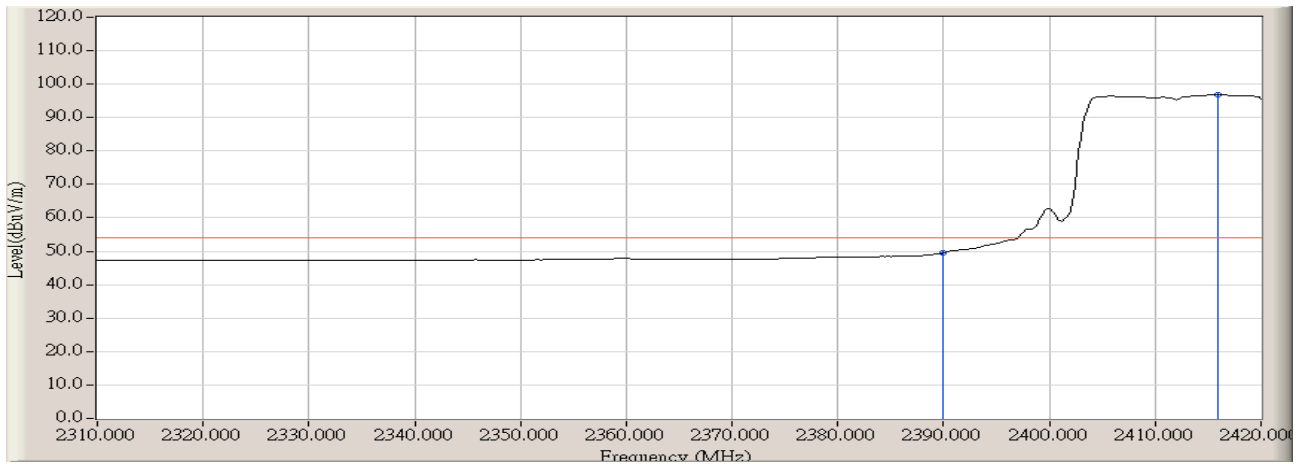
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.044	46.766	-7.204	53.970	AVERAGE
2	*	2415.783	32.738	46.174	78.912	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC1)



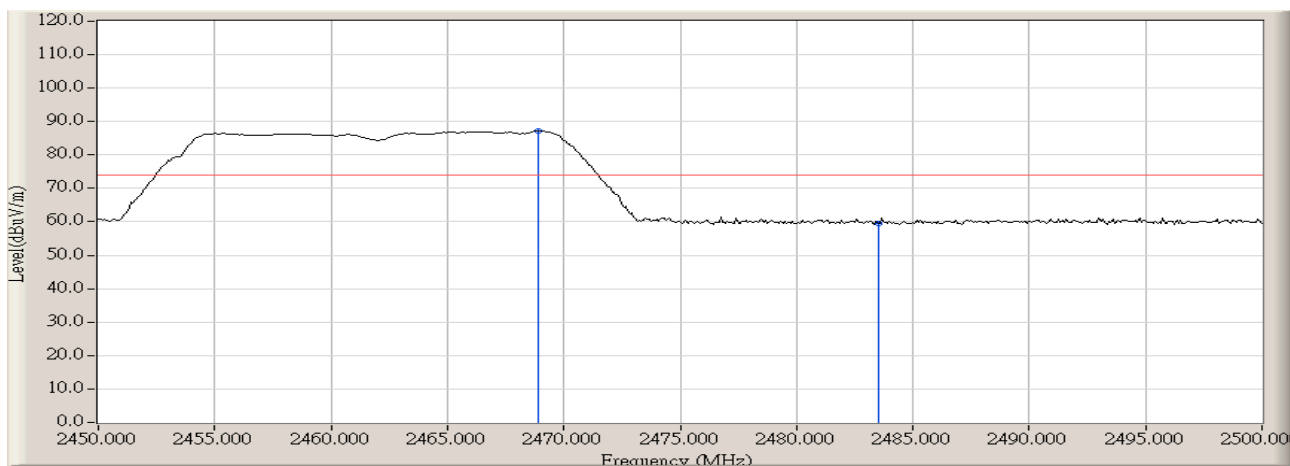
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	31.074	63.796	-10.174	73.970	PEAK
2	*	2416.517	32.740	74.127	106.867	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2412MHz (DAC1)



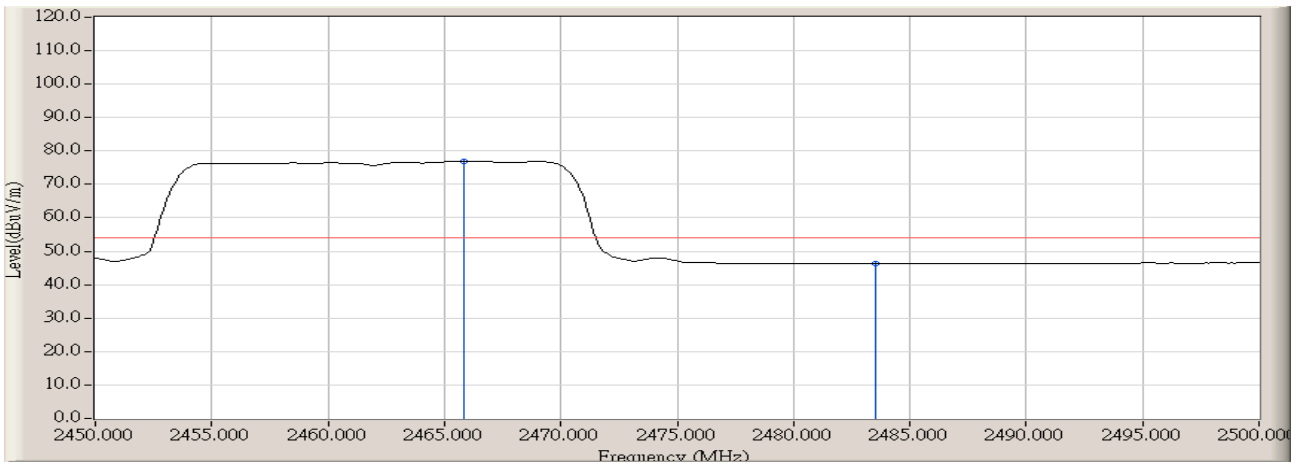
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	16.792	49.514	-4.456	53.970	AVERAGE
2	*	2415.967	32.739	64.101	96.840	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC1)



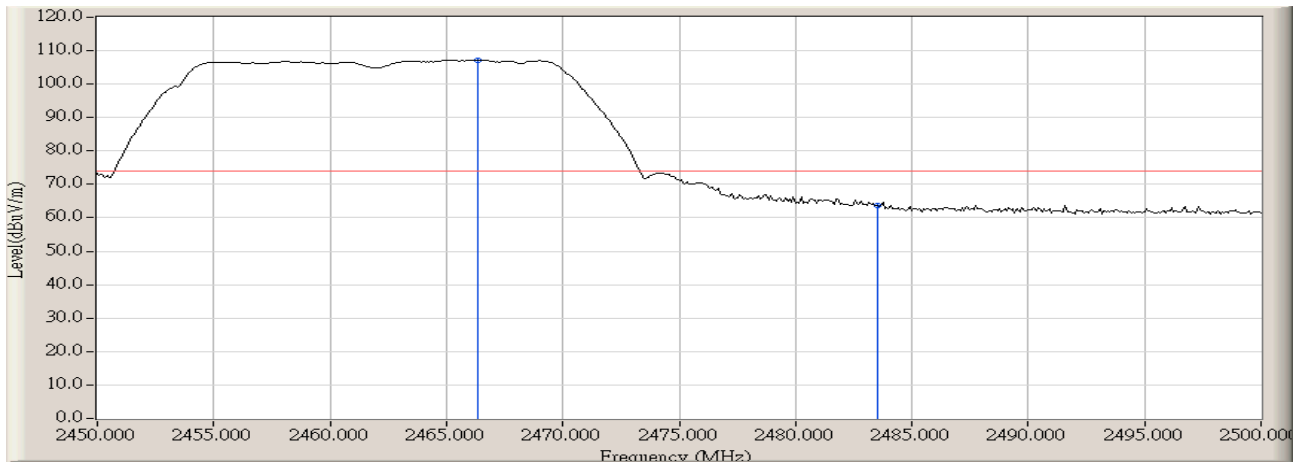
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2468.917	32.790	54.287	87.077	N/A	N/A	PEAK
2		2483.500	32.787	26.760	59.547	-14.423	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC1)



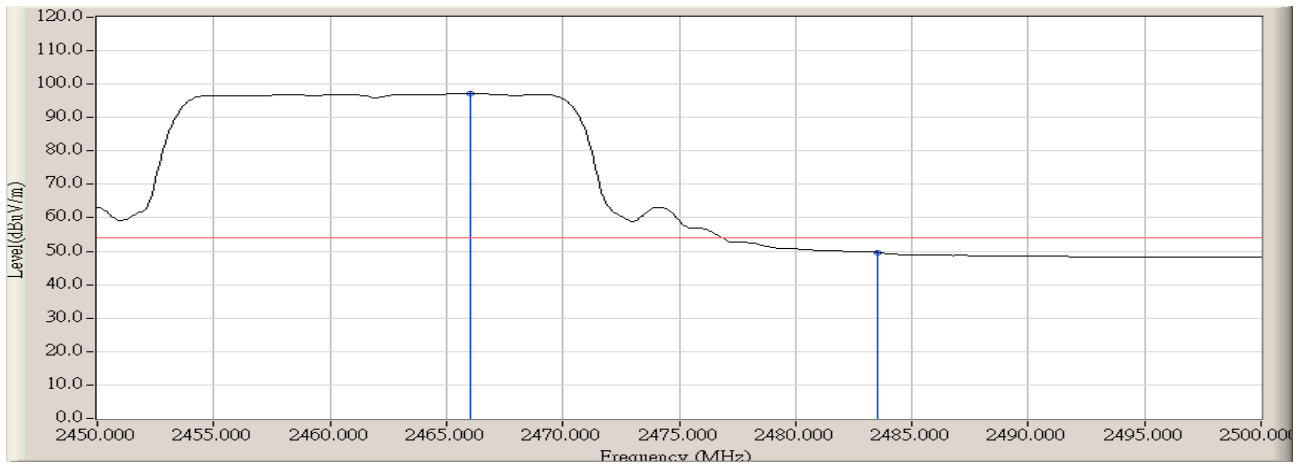
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.833	32.790	44.213	77.003	N/A	N/A	AVERAGE
2		2483.500	32.787	13.596	46.383	-7.587	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC1)



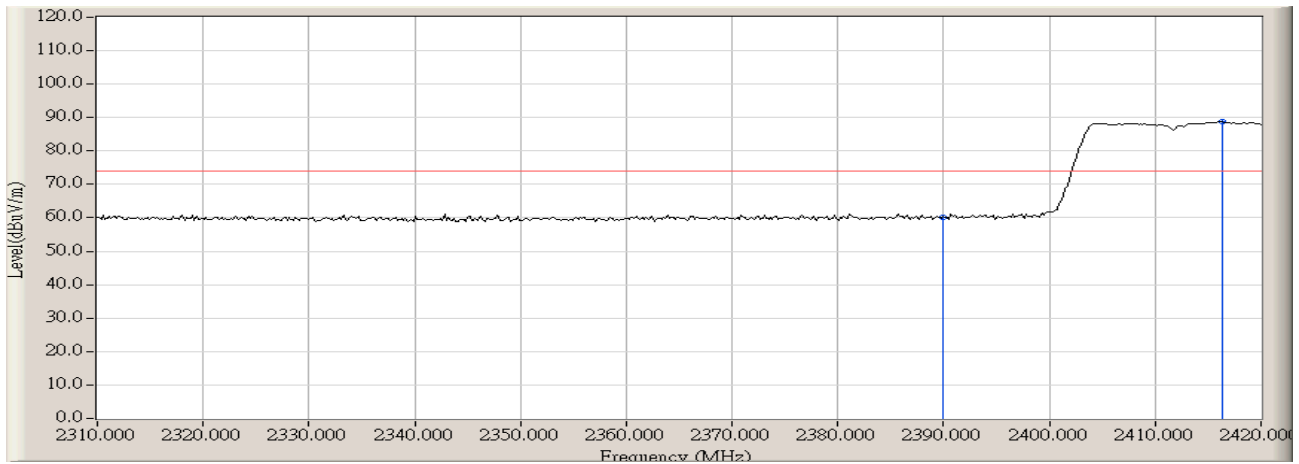
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.333	32.790	74.375	107.165	N/A	N/A	PEAK
2		2483.500	32.787	30.868	63.655	-10.315	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:41
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 2: Transmit by 802.11g at channel 2462MHz (DAC1)



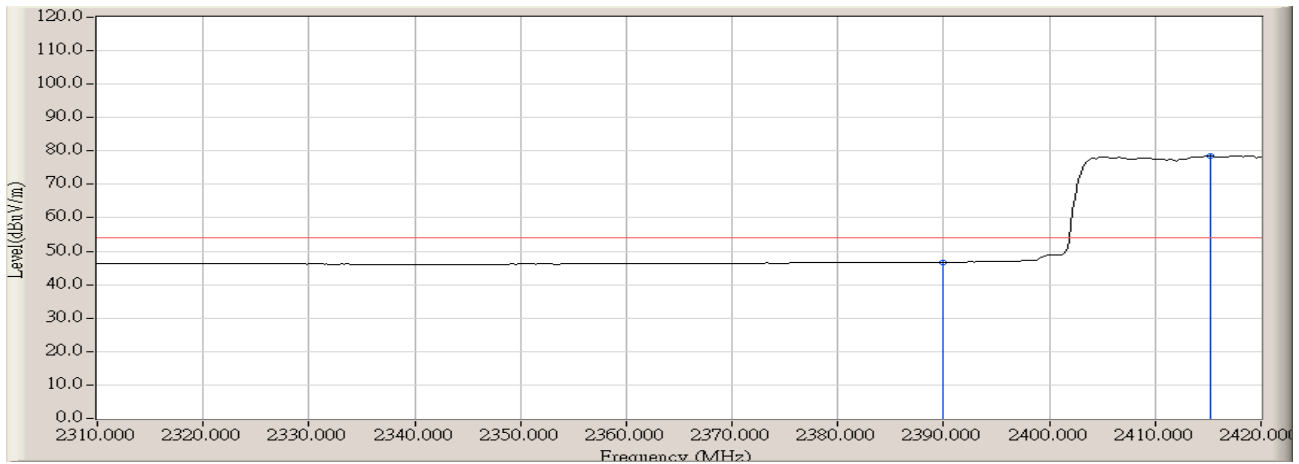
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.000	32.790	64.421	97.211	N/A	N/A	AVERAGE
2		2483.500	32.787	16.864	49.651	-4.319	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:53
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC1)



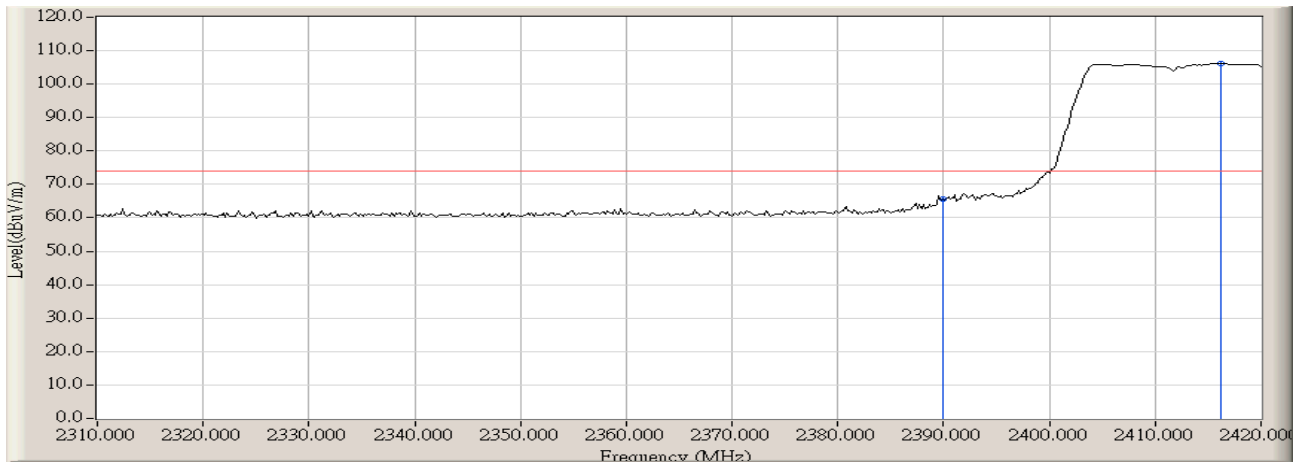
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.537	60.259	-13.711	73.970	PEAK
2	*	2416.333	32.740	56.010	88.749	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:55
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC1)



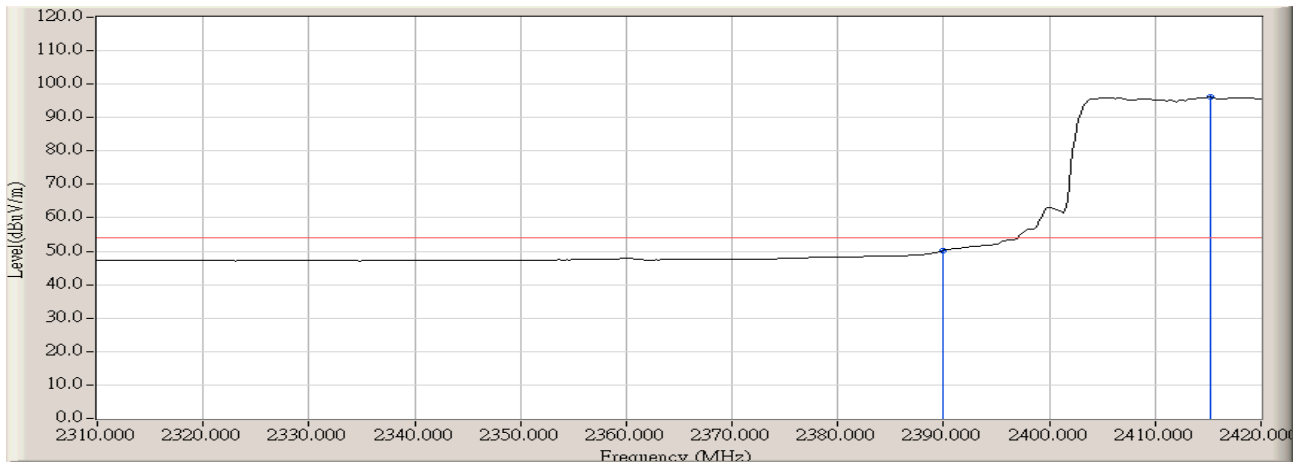
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.046	46.768	-7.202	53.970	AVERAGE
2	*	2415.233	32.738	45.815	78.552	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:50
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC1)



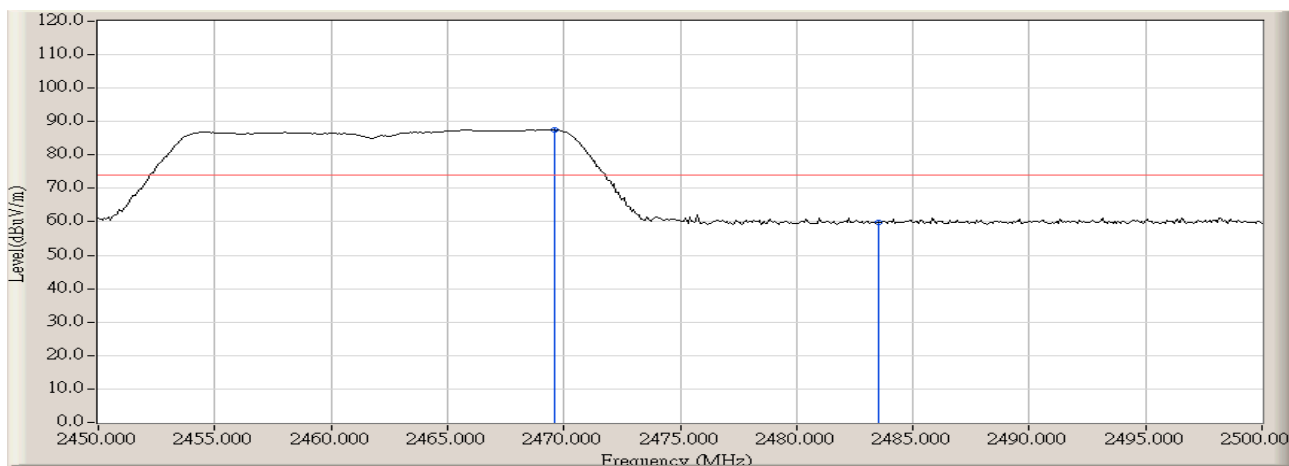
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	32.904	65.626	-8.344	73.970	PEAK
2	*	2416.150	32.739	73.485	106.224	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:50
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz (DAC1)



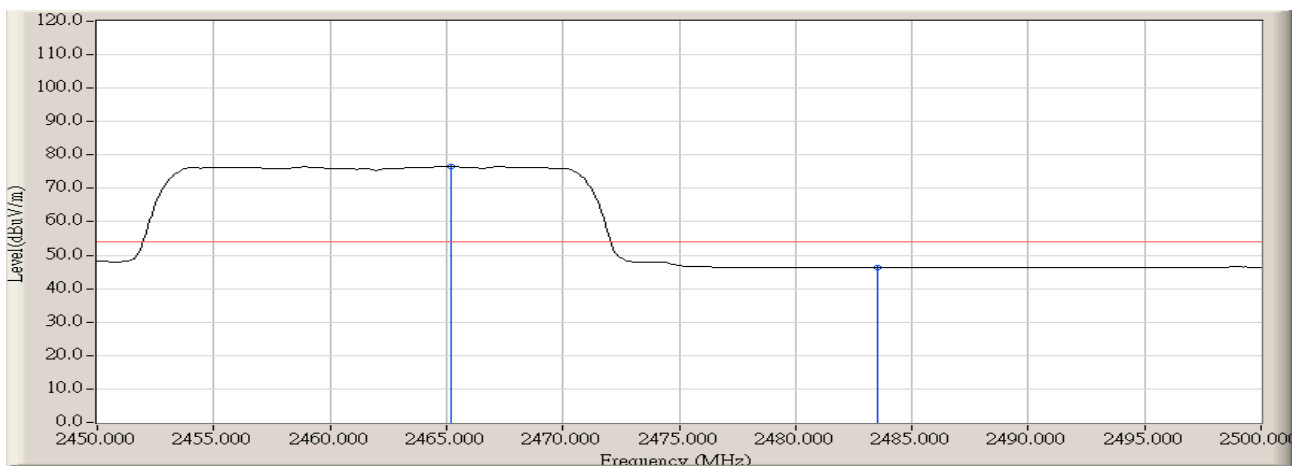
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	17.534	50.256	-3.714	53.970	AVERAGE
2	*	2415.233	32.738	63.352	96.089	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:03
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC1)



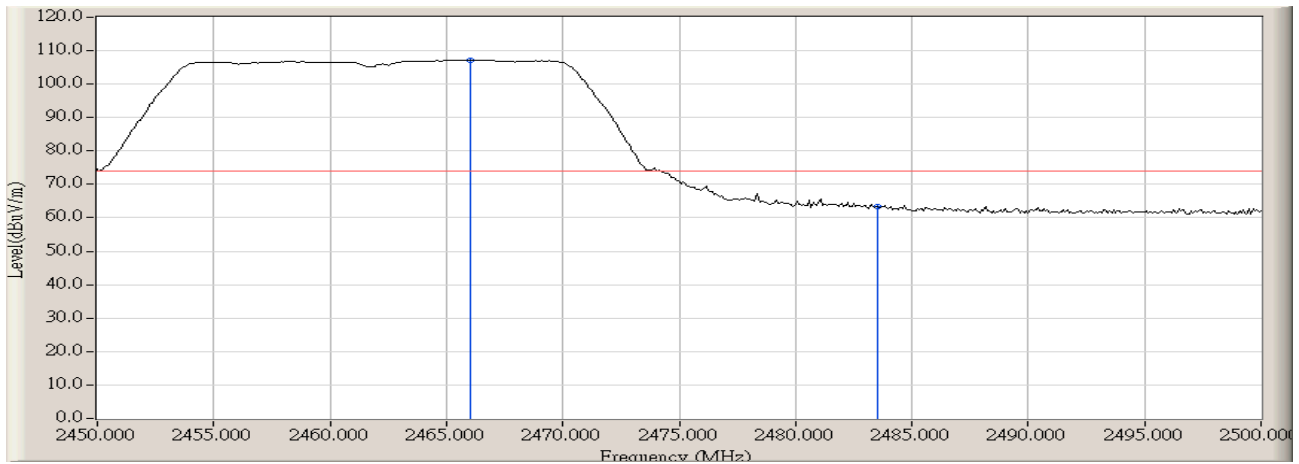
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2469.583	32.790	54.732	87.522	N/A	N/A	PEAK
2		2483.500	32.787	26.984	59.771	-14.199	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:03
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC1)



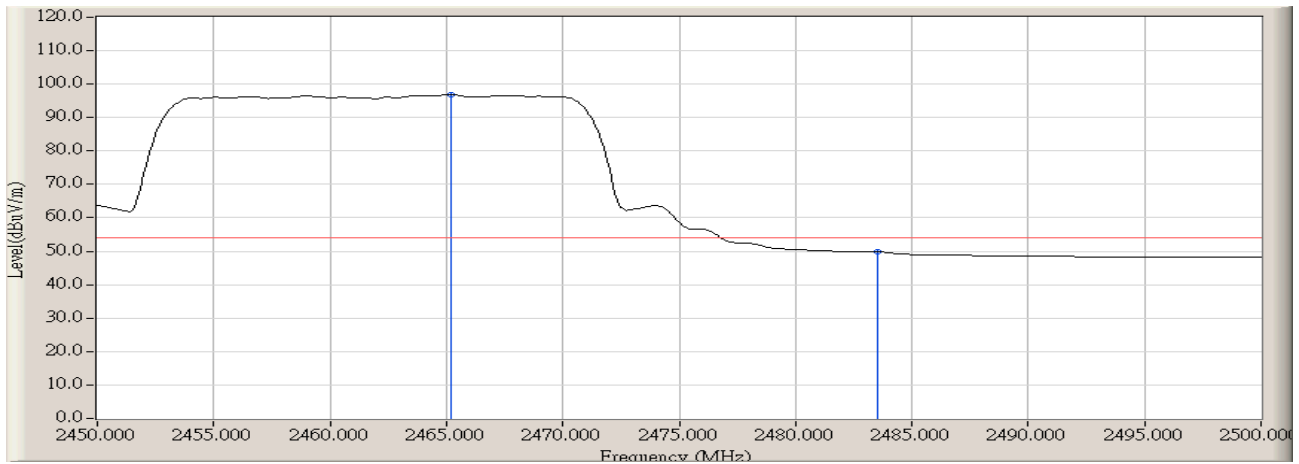
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.167	32.790	43.870	76.660	N/A	N/A	AVERAGE
2		2483.500	32.787	13.577	46.364	-7.606	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:58
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC1)



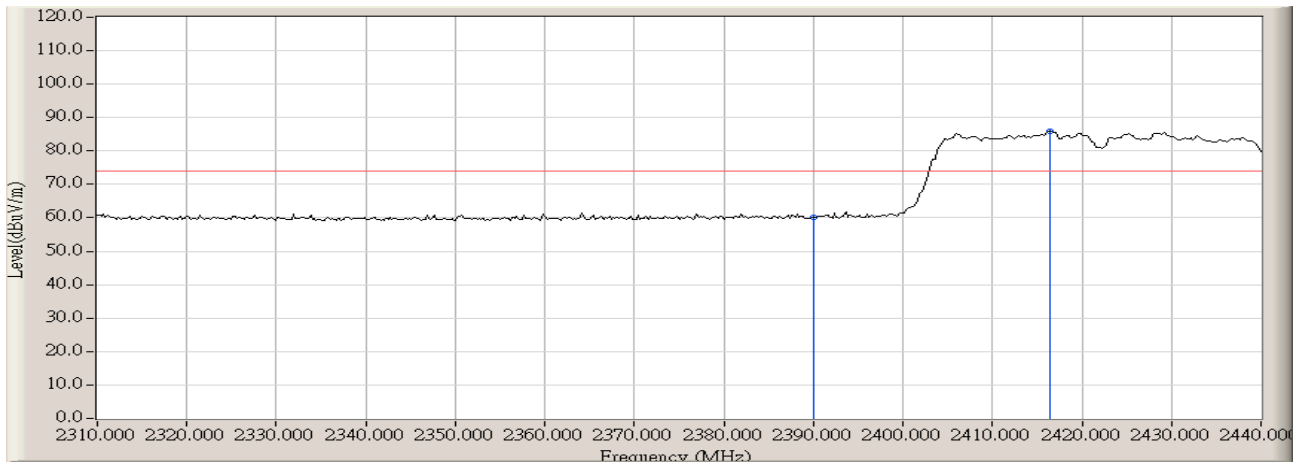
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2466.000	32.790	74.443	107.233	N/A	N/A	PEAK
2		2483.500	32.787	30.450	63.237	-10.733	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 10:59
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz (DAC1)



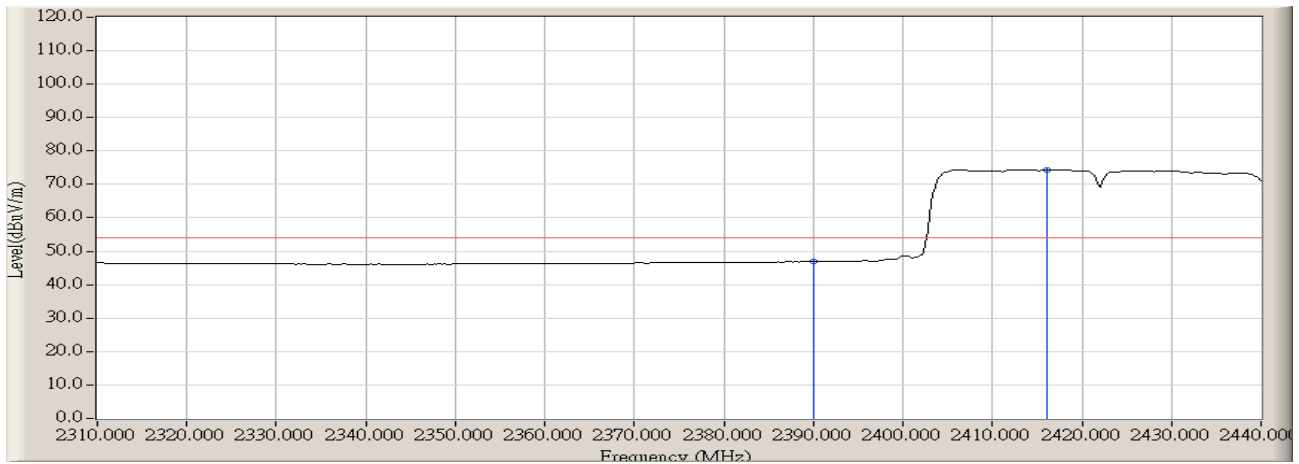
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.167	32.790	64.025	96.815	N/A	N/A	AVERAGE
2		2483.500	32.787	17.018	49.805	-4.165	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:12
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC1)



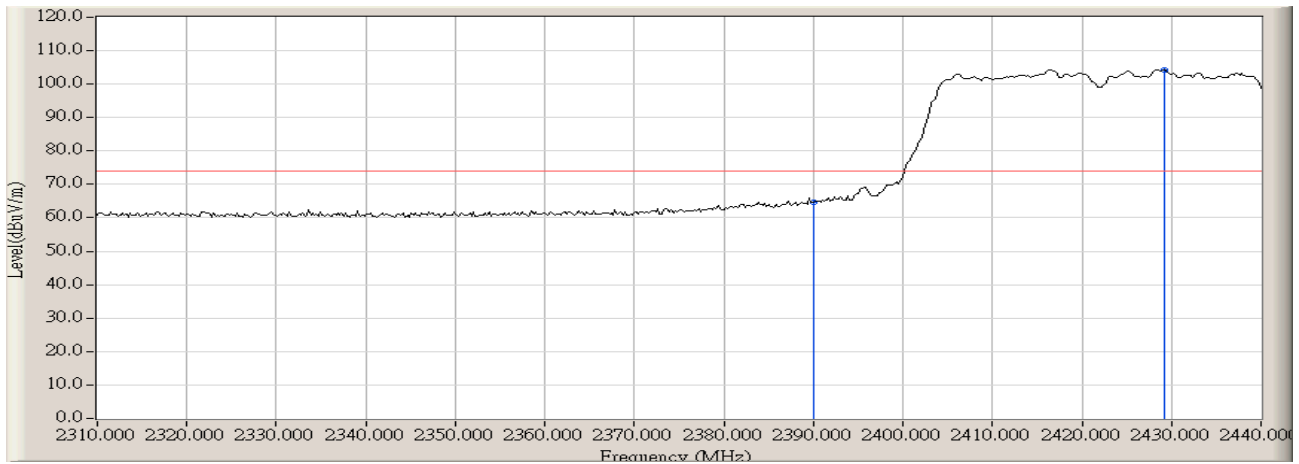
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.465	60.187	-13.783	73.970	PEAK
2	*	2416.383	32.740	53.179	85.919	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:13
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC1)



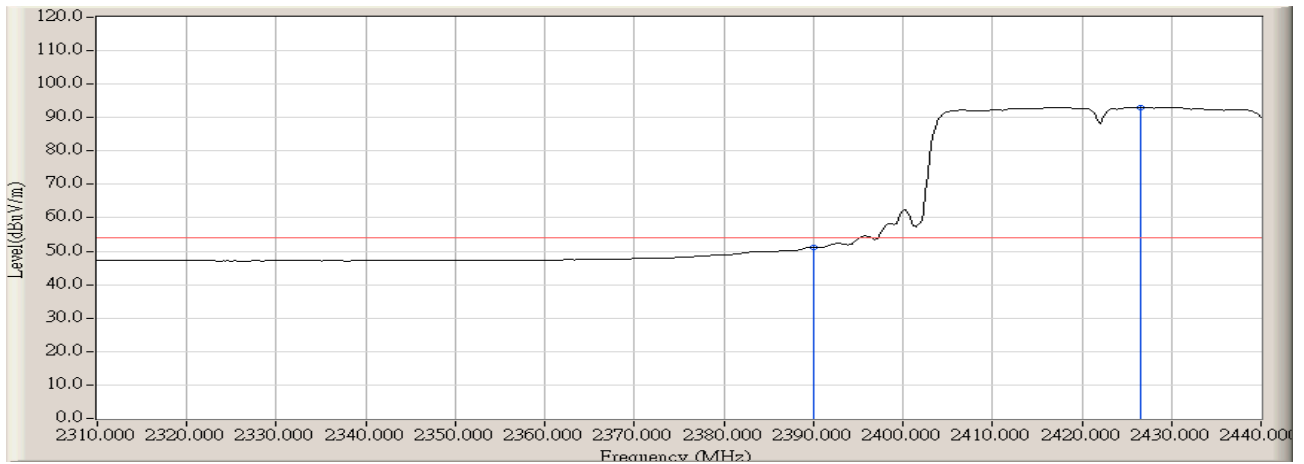
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.184	46.906	-7.064	53.970	AVERAGE
2	*	2416.167	32.739	41.607	74.346	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:07
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC1)



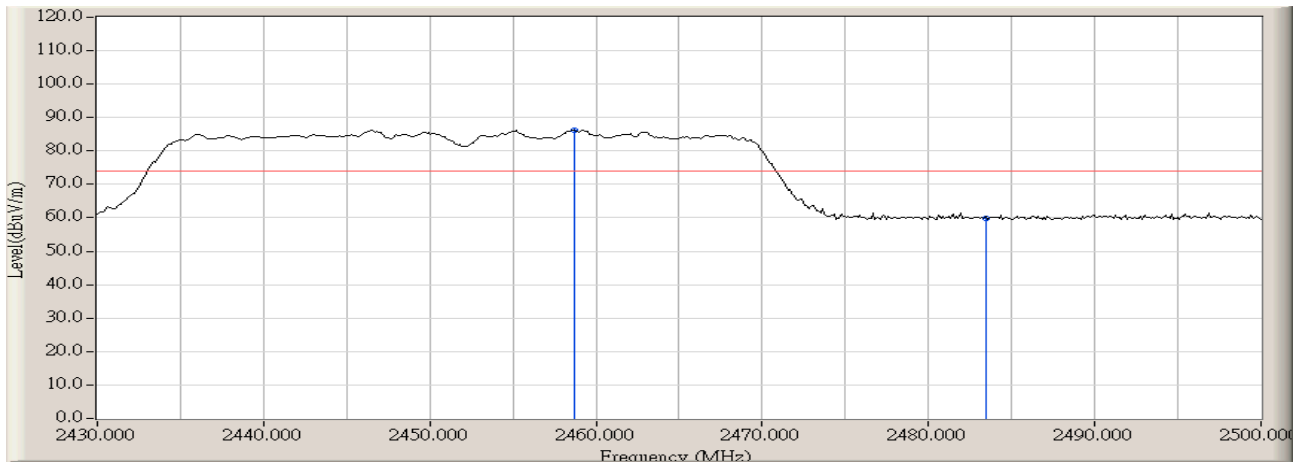
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	32.084	64.806	-9.164	73.970	PEAK
2	*	2429.167	32.761	71.468	104.229	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:08
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz (DAC1)



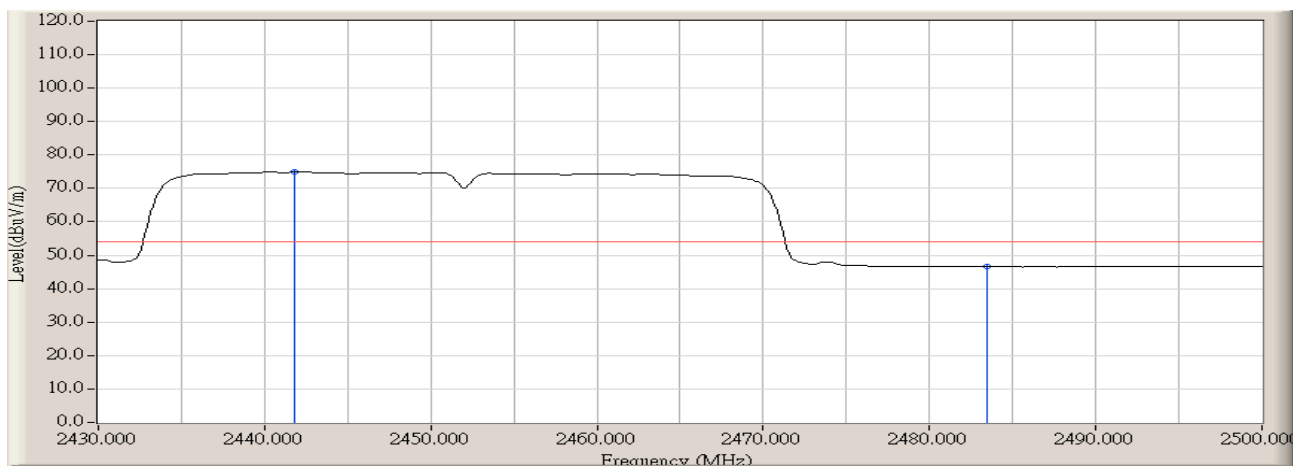
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	18.570	51.292	-2.678	53.970	AVERAGE
2	*	2426.567	32.758	60.307	93.064	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:41
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC1)



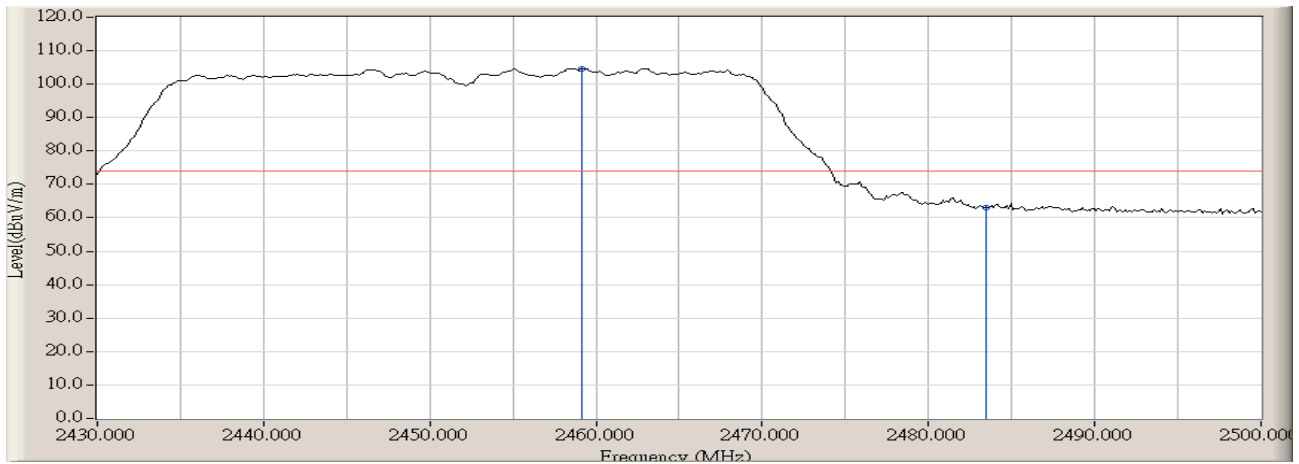
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.700	32.788	53.471	86.259	N/A	N/A	PEAK
2		2483.500	32.787	27.167	59.954	-14.016	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC1)



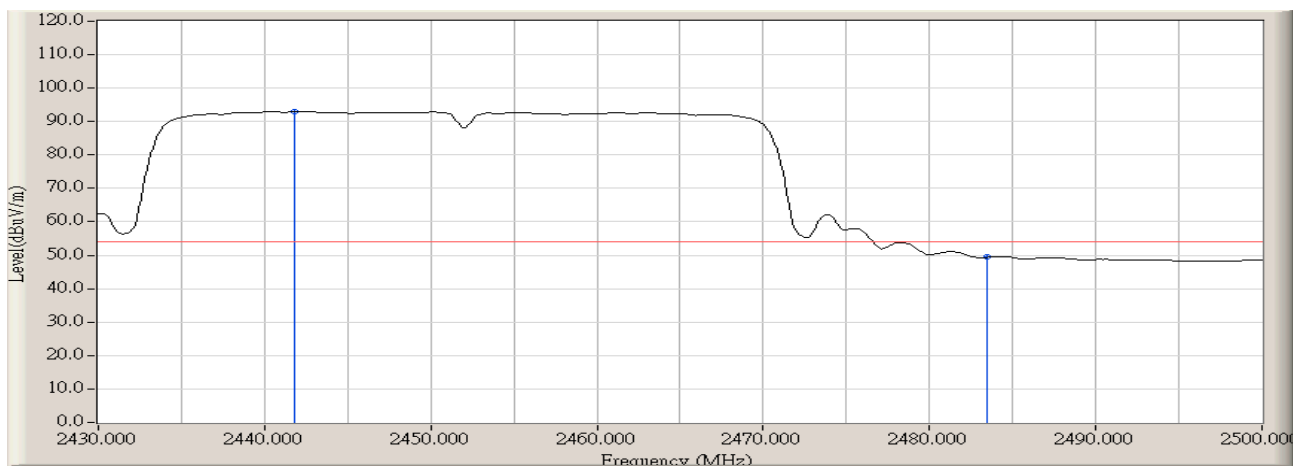
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2441.783	32.776	42.136	74.912	N/A	N/A	AVERAGE
2		2483.500	32.787	13.730	46.517	-7.453	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:17
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC1)



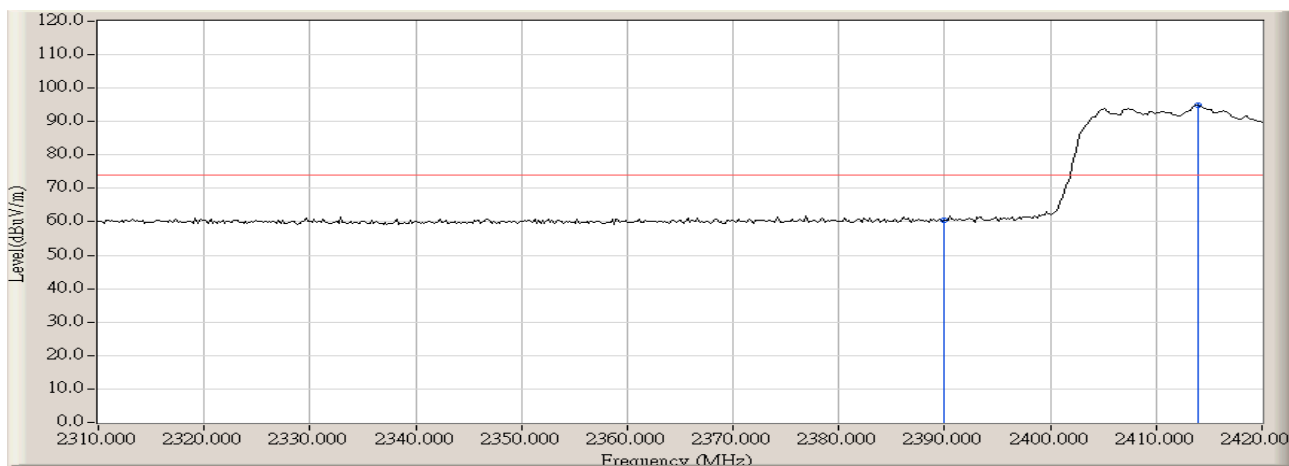
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.167	32.788	71.893	104.681	N/A	N/A	PEAK
2		2483.500	32.787	30.310	63.097	-10.873	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 11:17
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz (DAC1)



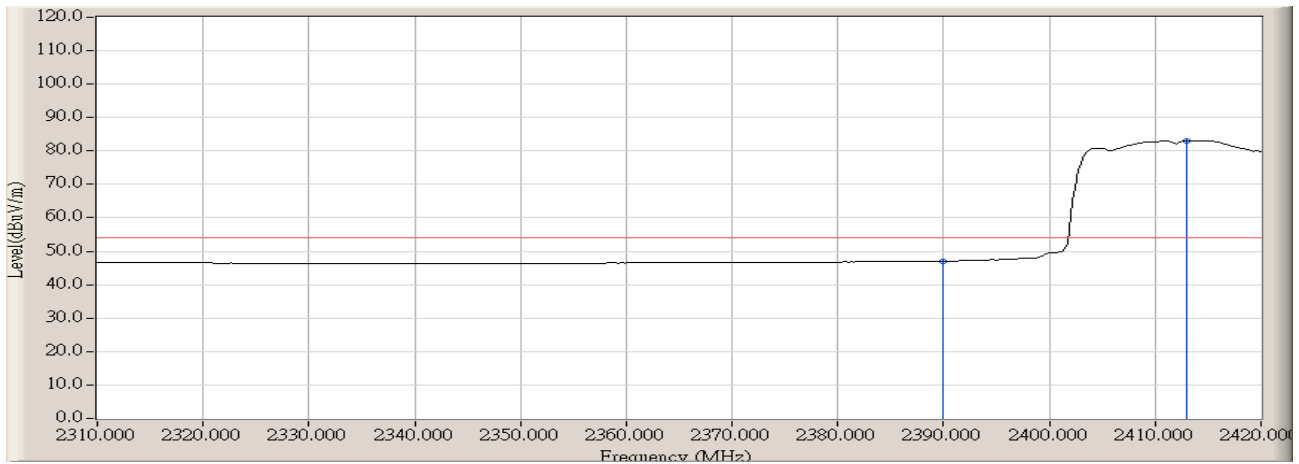
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2441.783	32.776	60.238	93.014	N/A	N/A	AVERAGE
2		2483.500	32.787	16.626	49.413	-4.557	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:40
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz chain (DAC0 and DAC1)



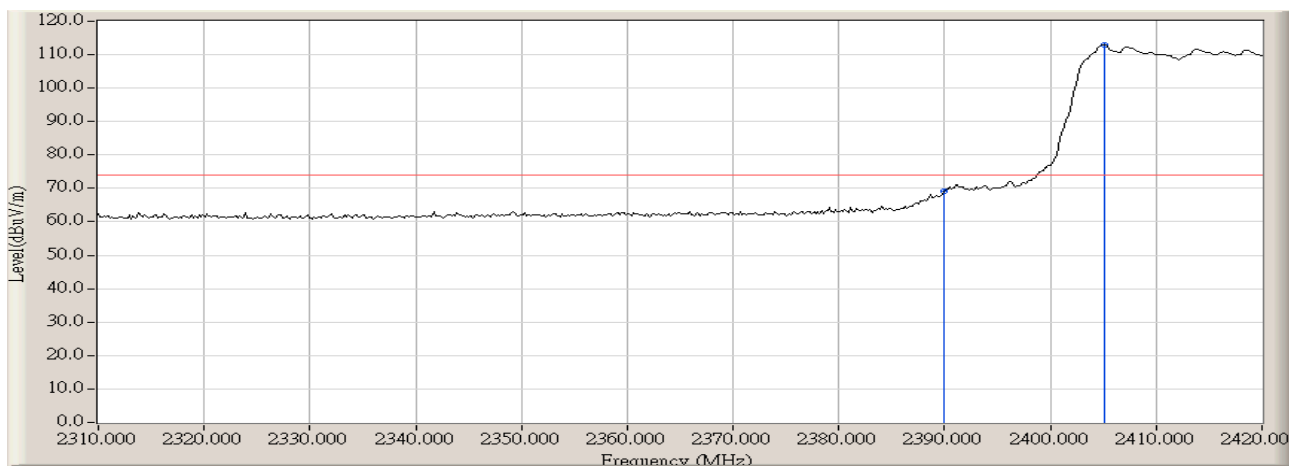
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.820	60.542	-13.428	73.970	PEAK
2	*	2413.950	32.735	62.270	95.005	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz chain (DAC0 and DAC1)



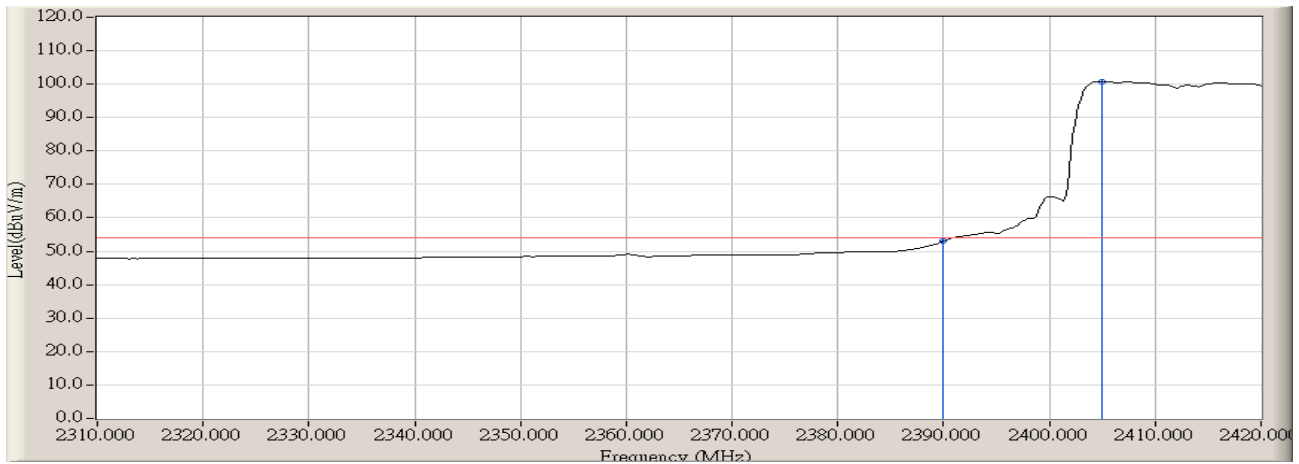
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.289	47.011	-6.959	53.970	AVERAGE
2	*	2413.033	32.734	50.412	83.146	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:32
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz chain (DAC0 and DAC1)



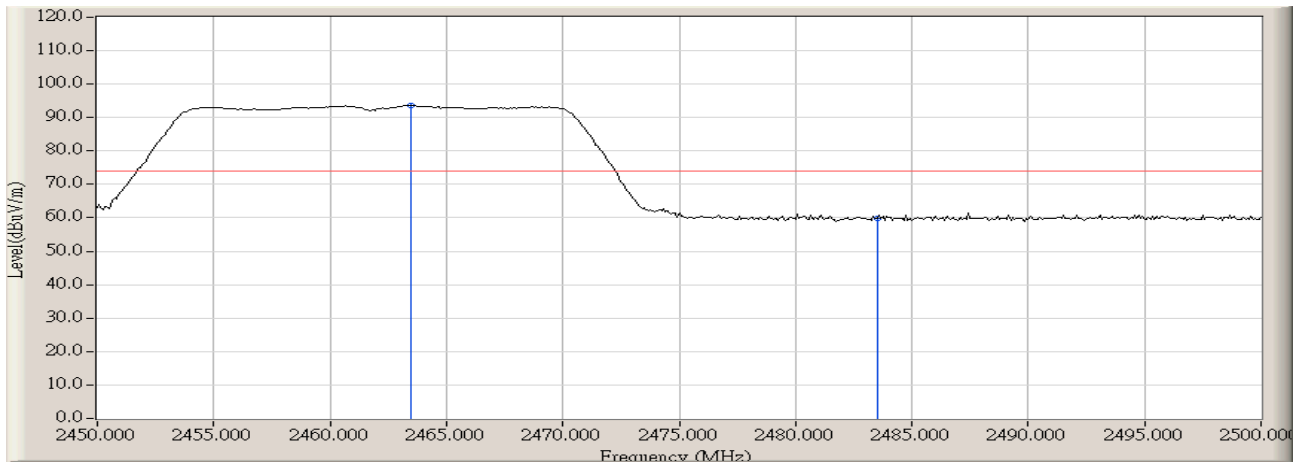
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	36.337	69.059	-4.911	73.970	PEAK
2	*	2405.150	32.726	80.219	112.946	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:35
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2412MHz chain (DAC0 and DAC1)



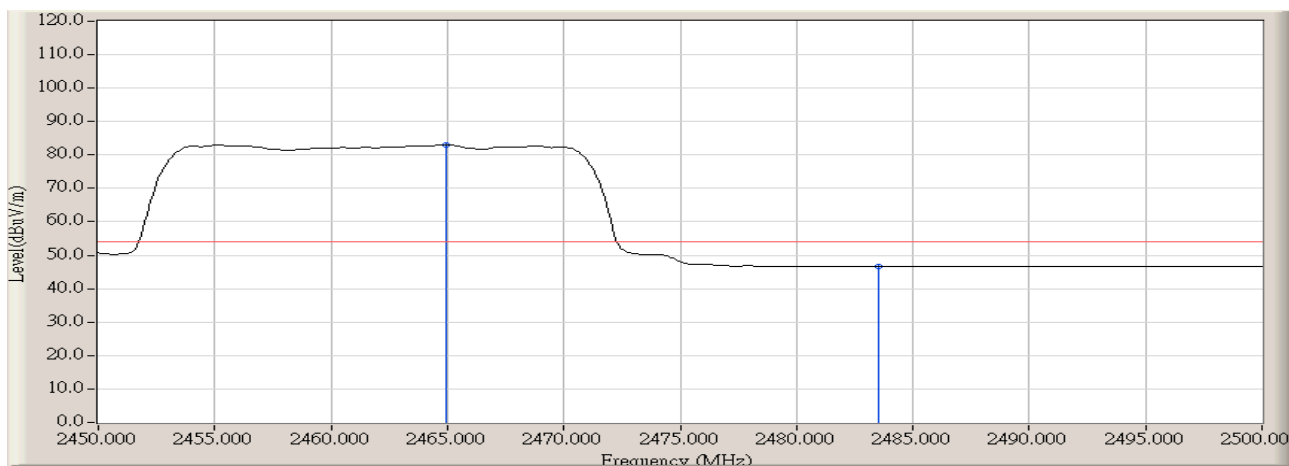
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	20.335	53.057	-0.913	53.970	AVERAGE
2	*	2404.967	32.727	68.108	100.834	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:48
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz chain (DAC0 and DAC1)



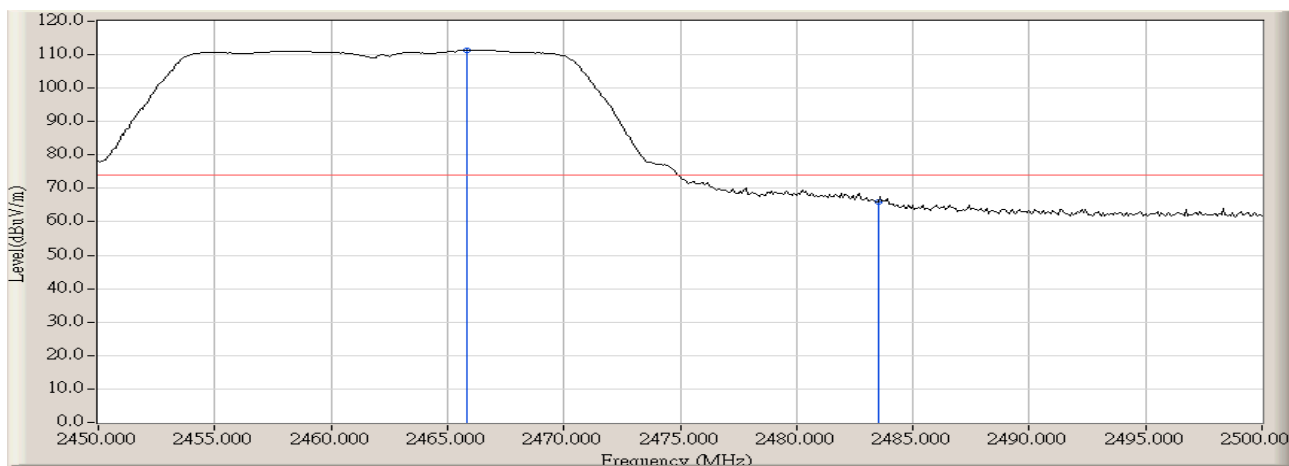
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.500	32.790	60.830	93.620	N/A	N/A	PEAK
2		2483.500	32.787	26.991	59.778	-14.192	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:50
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz chain (DAC0 and DAC1)



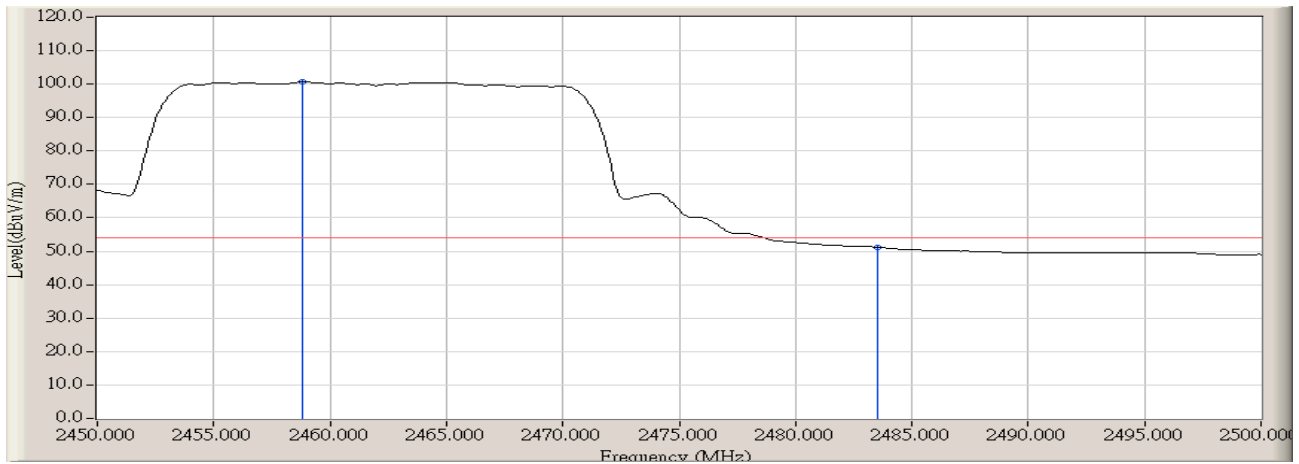
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.917	32.790	50.125	82.915	N/A	N/A	AVERAGE
2		2483.500	32.787	13.842	46.629	-7.341	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:45
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz chain (DAC0 and DAC1)



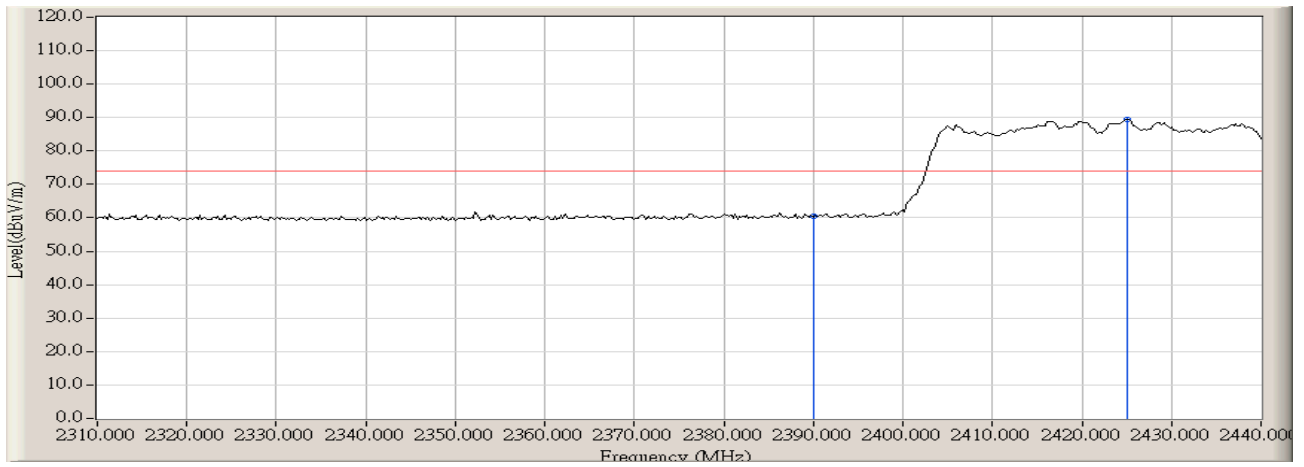
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.833	32.790	78.541	111.331	N/A	N/A	PEAK
2		2483.500	32.787	33.209	65.996	-7.974	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 13:46
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 3: Transmit by 802.11n(20MHz) at channel 2462MHz chain (DAC0 and DAC1)



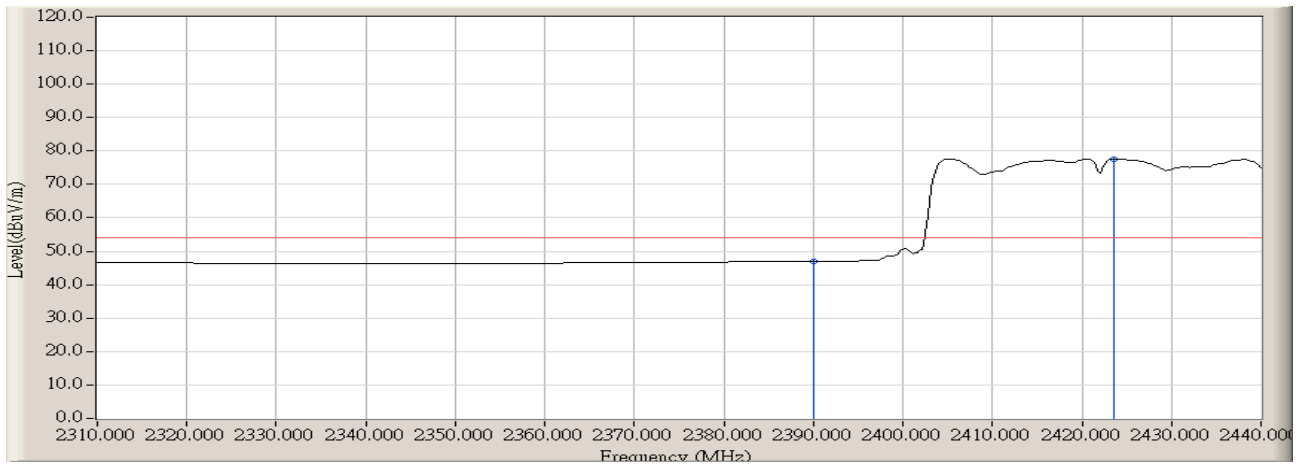
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2458.833	32.788	67.824	100.612	N/A	N/A	AVERAGE
2		2483.500	32.787	18.461	51.248	-2.722	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:26
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz chain (DAC0 and DAC1)



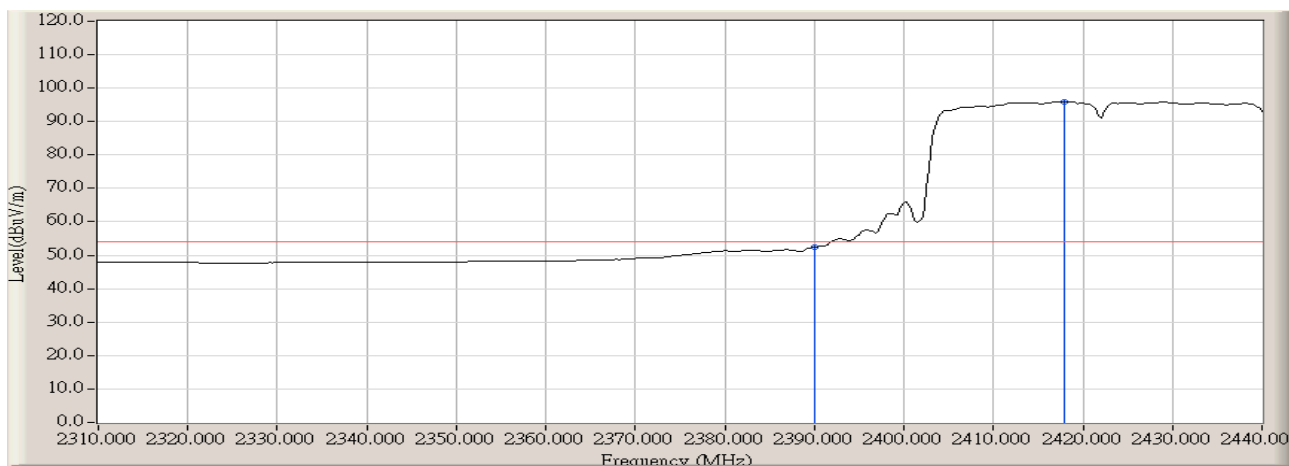
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	27.603	60.325	-13.645	73.970	PEAK
2	*	2425.050	32.755	56.779	89.534	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:29
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz chain (DAC0 and DAC1)



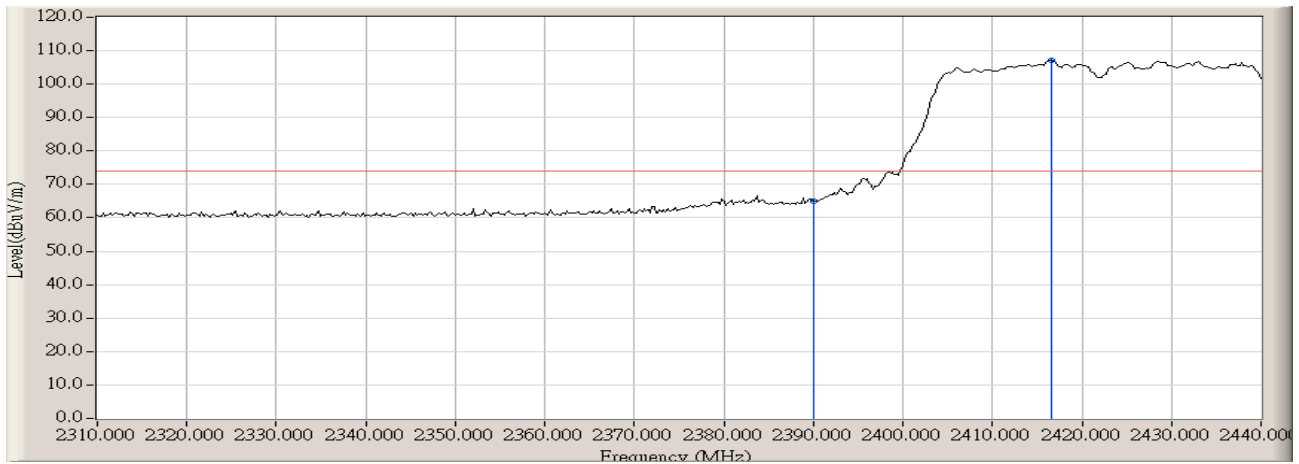
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	14.305	47.027	-6.943	53.970	AVERAGE
2	*	2423.533	32.752	44.916	77.668	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:20
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz chain (DAC0 and DAC1)



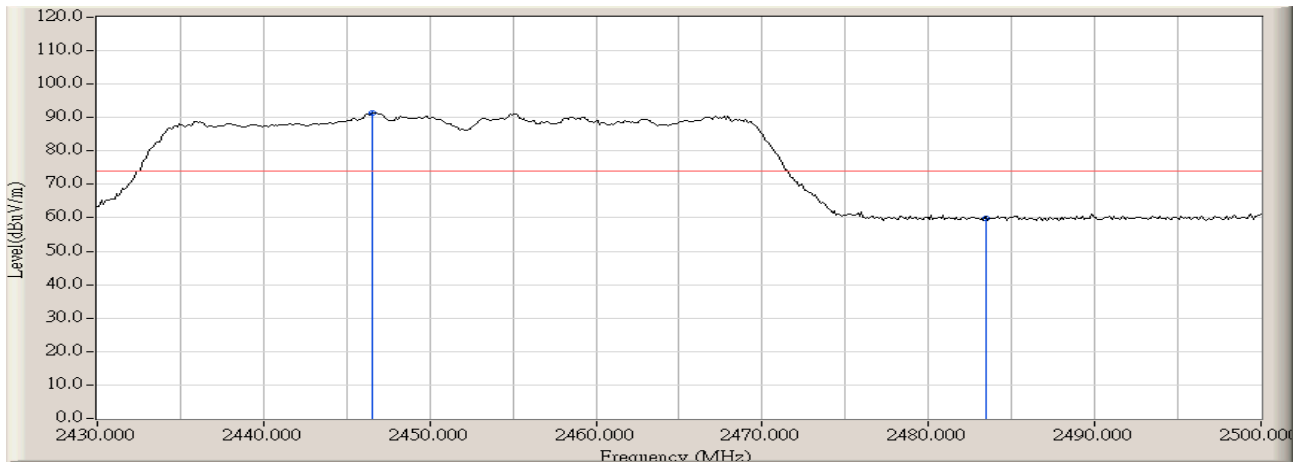
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	19.818	52.540	-1.430	53.970	AVERAGE
2	*	2417.900	32.742	63.221	95.963	N/A	N/A	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:22
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2422MHz chain (DAC0 and DAC1)



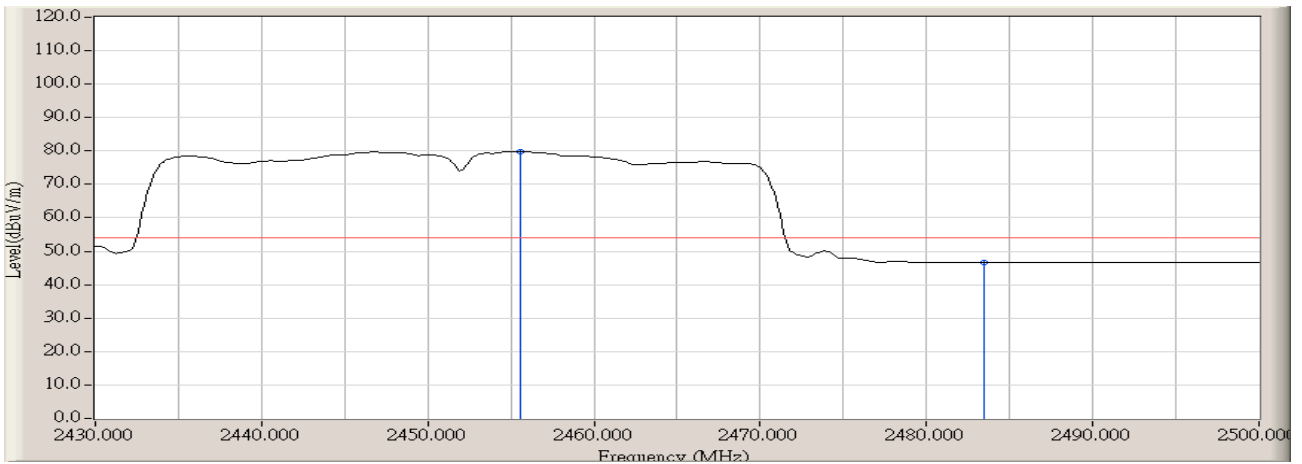
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2390.000	32.722	32.304	65.026	-8.944	73.970	PEAK
2	*	2416.600	32.740	74.317	107.057	N/A	N/A	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:36
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz chain (DAC0 and DAC1)



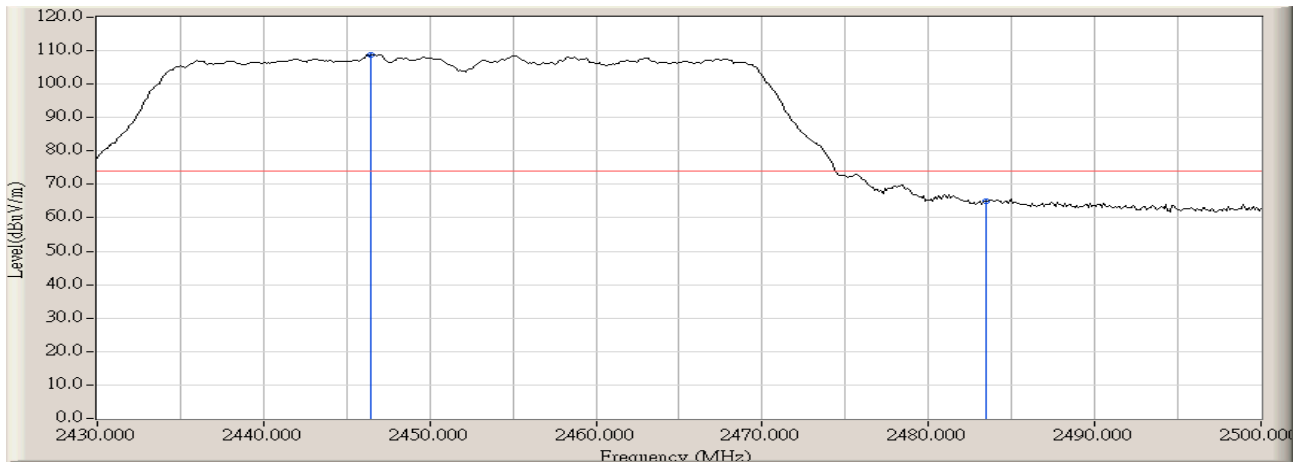
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.567	32.781	58.513	91.294	N/A	N/A	PEAK
2		2483.500	32.787	27.007	59.794	-14.176	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:42
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - HORIZONTAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz chain (DAC0 and DAC1)



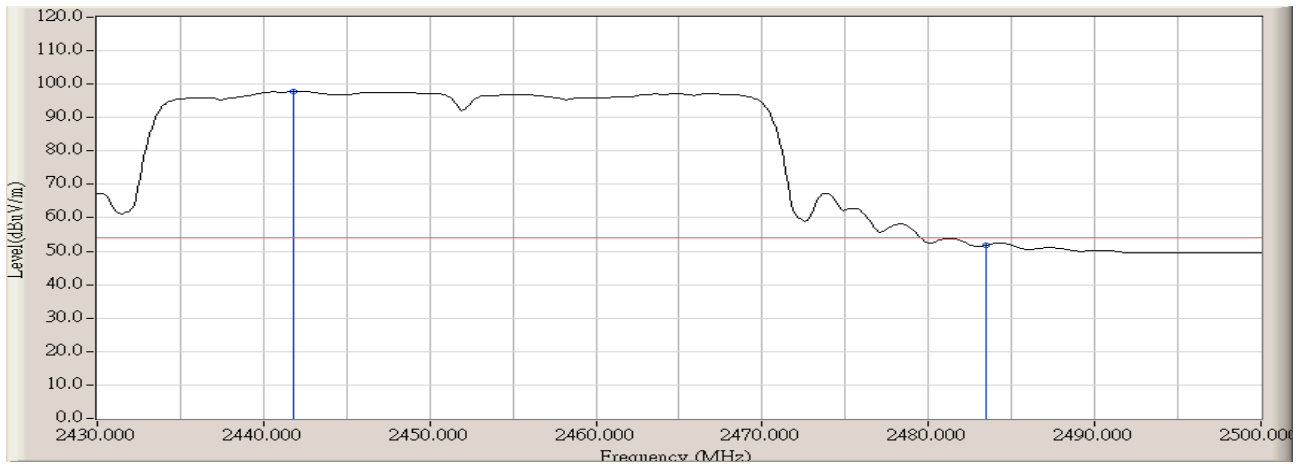
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.550	32.786	46.973	79.759	N/A	N/A	AVERAGE
2		2483.500	32.787	13.794	46.581	-7.389	53.970	AVERAGE

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:31
Limit : FCC_SpartC_15.209_03M_PK	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz chain (DAC0 and DAC1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2446.450	32.781	75.993	108.774	N/A	N/A	PEAK
2		2483.500	32.787	32.156	64.943	-9.027	73.970	PEAK

Engineer : Jame	
Site : AC-2 (3m Semi-Anechoic Chamber)	Time : 2008/08/18 - 14:33
Limit : FCC_SpartC_15.209_03M_AV	Margin : 0
EUT : 802.11n Wireless LAN Module	Probe : BBHA9120D_496(1-18GHz) - VERTICAL
Power : AC120V/60Hz	Note : Mode 4: Transmit by 802.11n(40MHz) at channel 2452MHz chain (DAC0 and DAC1)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2441.783	32.776	65.078	97.854	N/A	N/A	AVERAGE
2		2483.500	32.787	19.095	51.882	-2.088	53.970	AVERAGE

7. Operation Frequency Range of 20dB Bandwidth

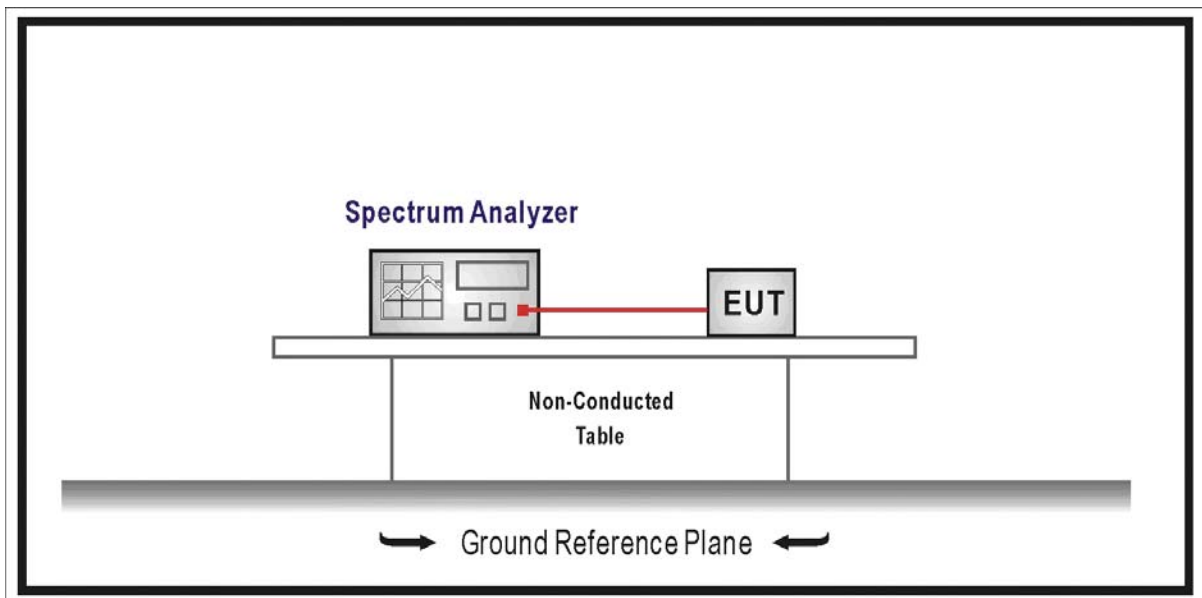
7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

7.2. Test Setup



7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

7.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

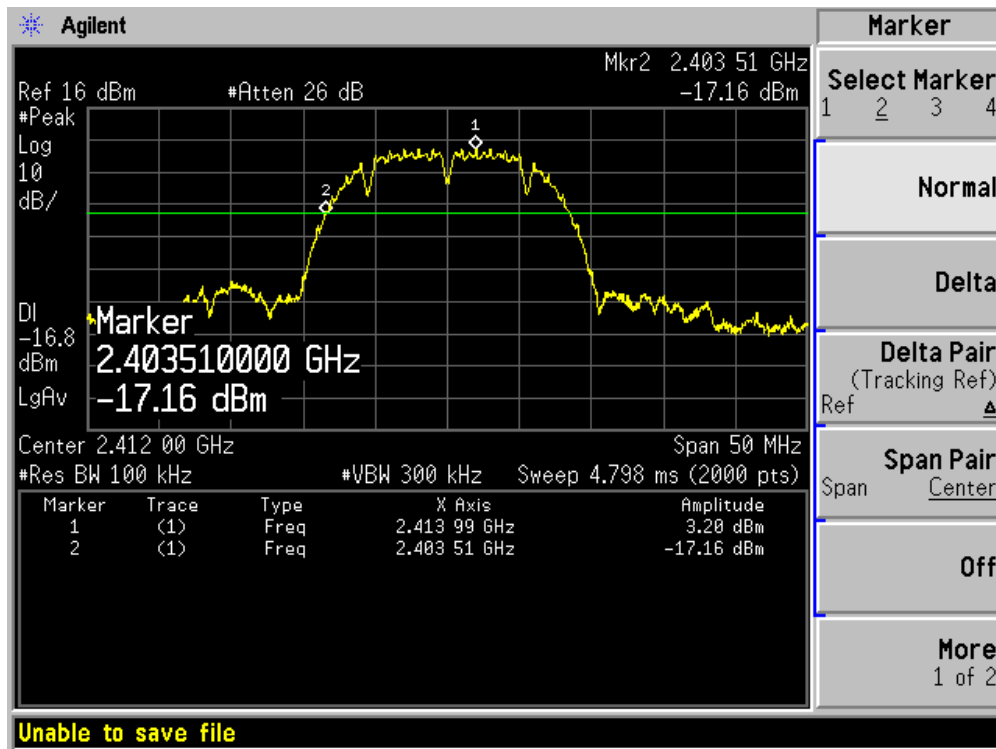
7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

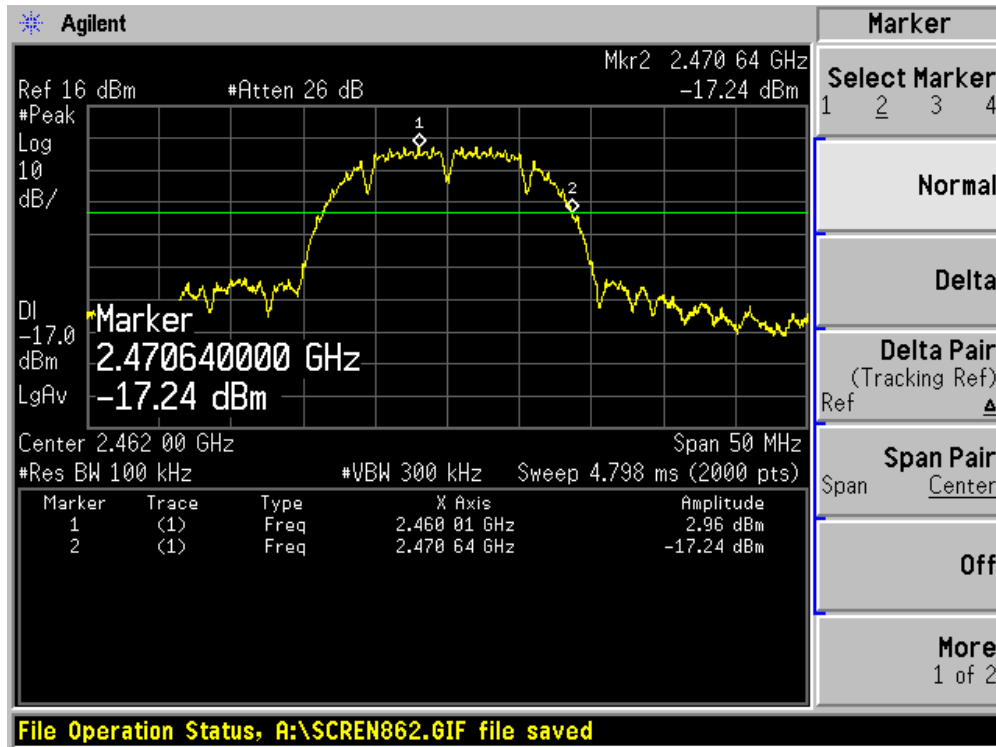
7.6. Test Result

Product	:	802.11n Wireless LAN Module
Test Item	:	Operation Frequency Range of 20dB Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC0)

Channel 01 (2412MHz)

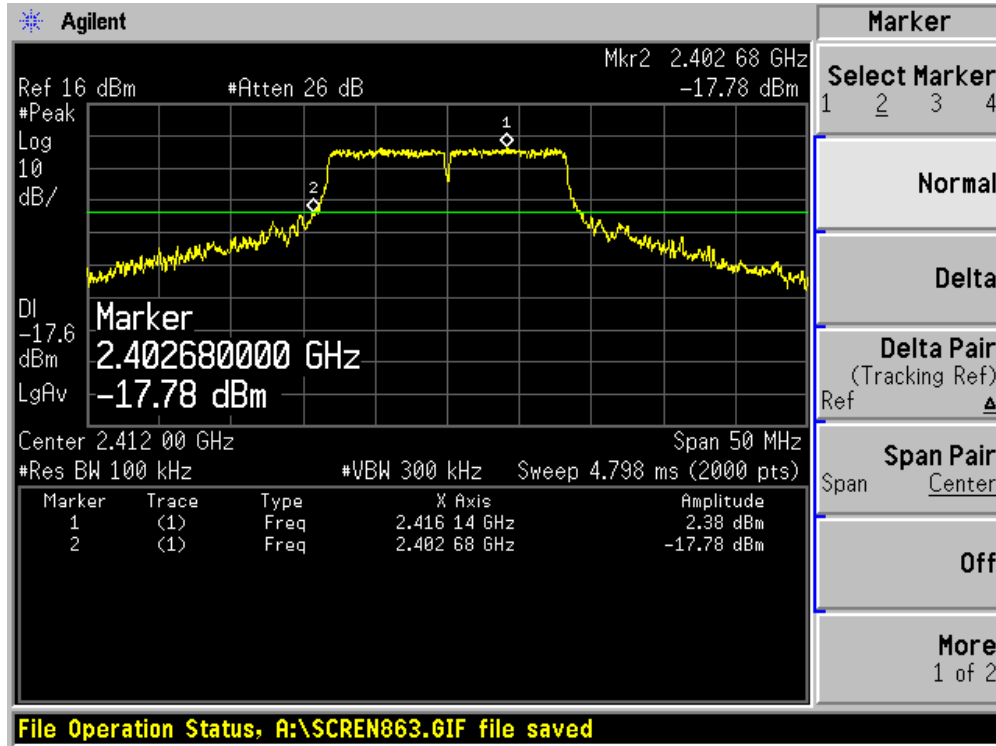


Channel 11 (2462MHz)

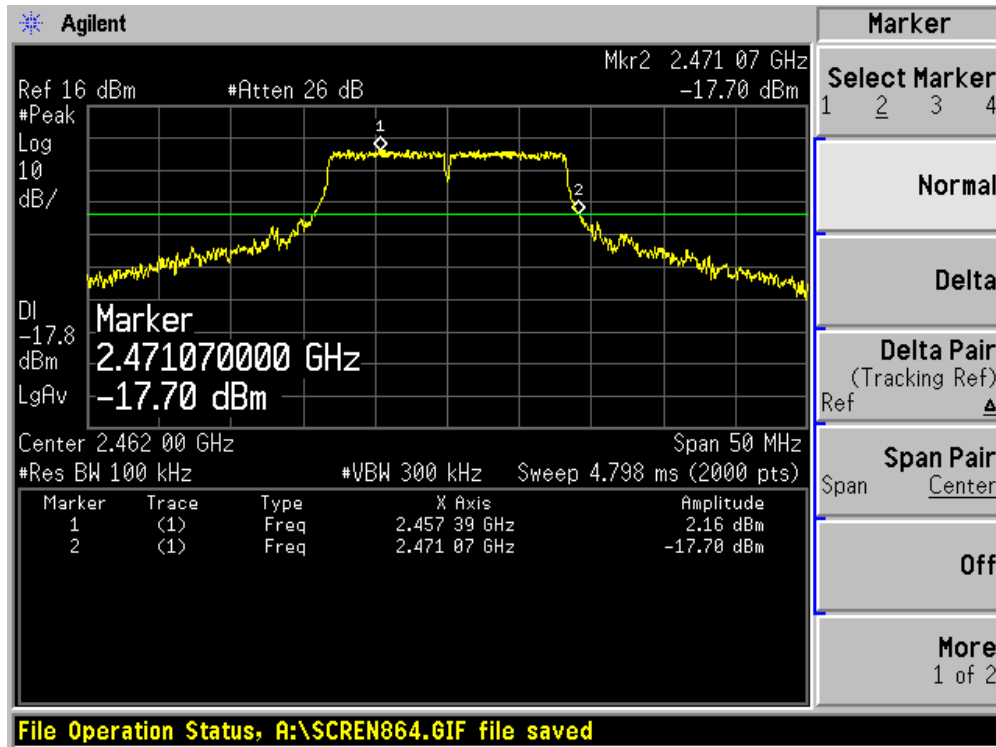


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g (DAC0)

Channel 01 (2412MHz)

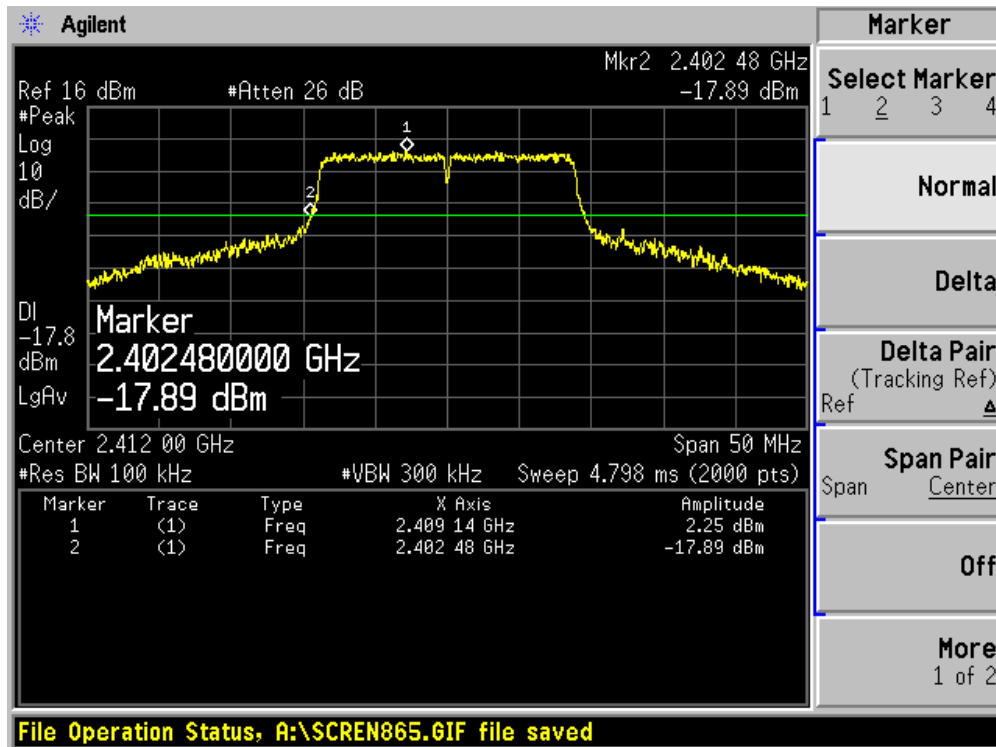


Channel 11 (2462MHz)

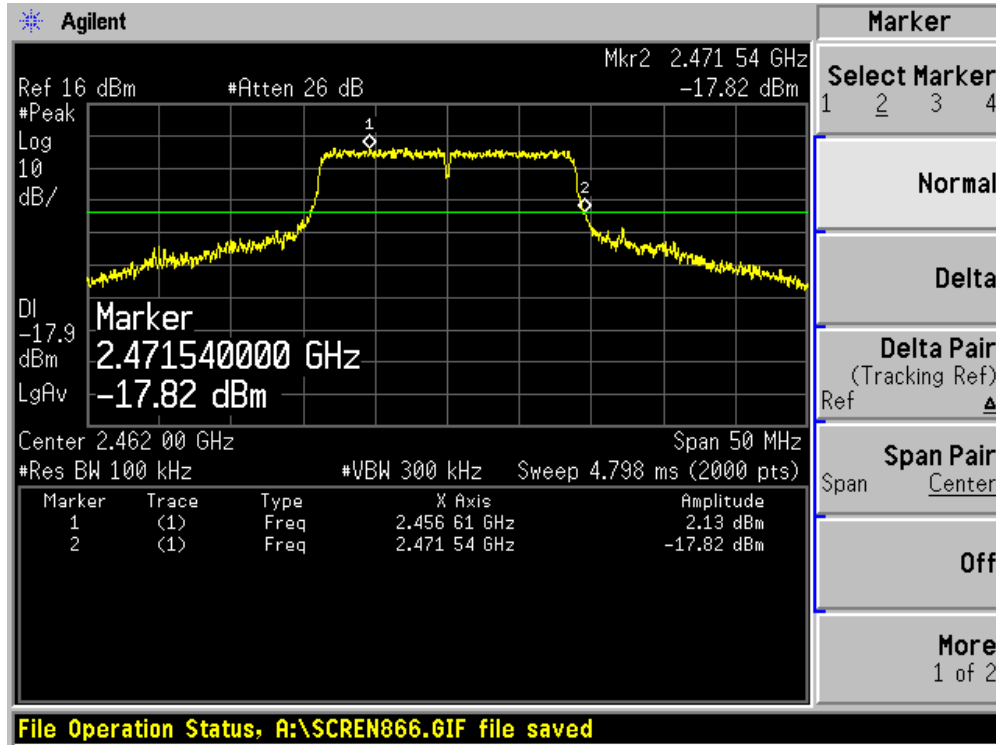


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 3: Transmit by 802.11n (20MHz) (DAC0)

Channel 01 (2412MHz)

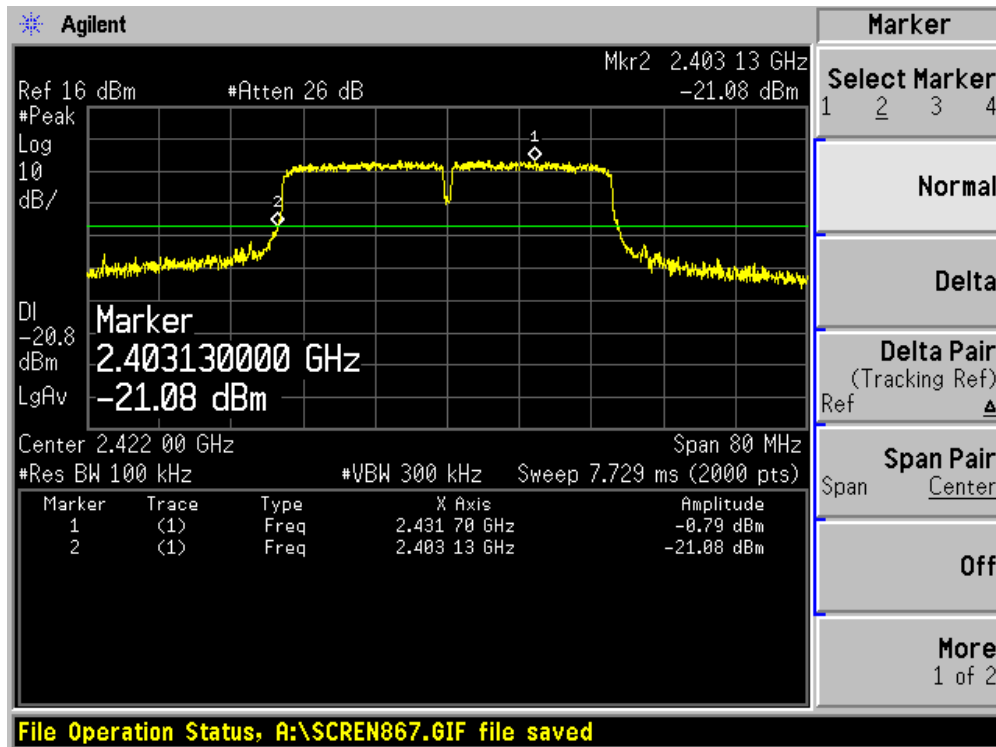


Channel 11 (2462MHz)

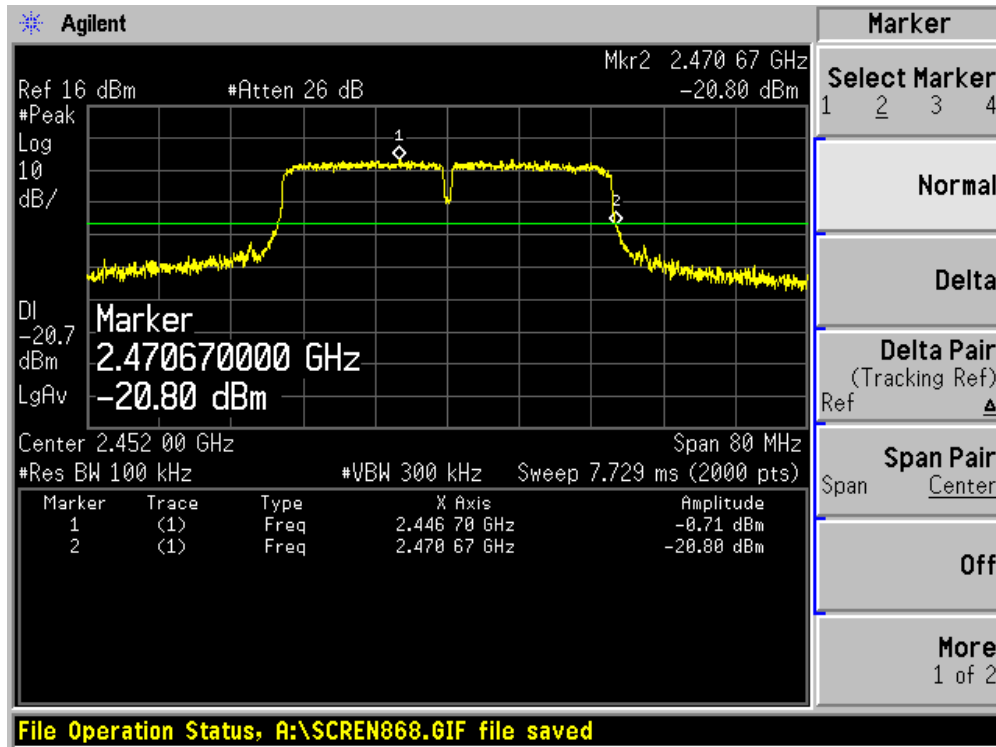


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 4: Transmit by 802.11n (40MHz) (DAC0)

Channel 03 (2422MHz)

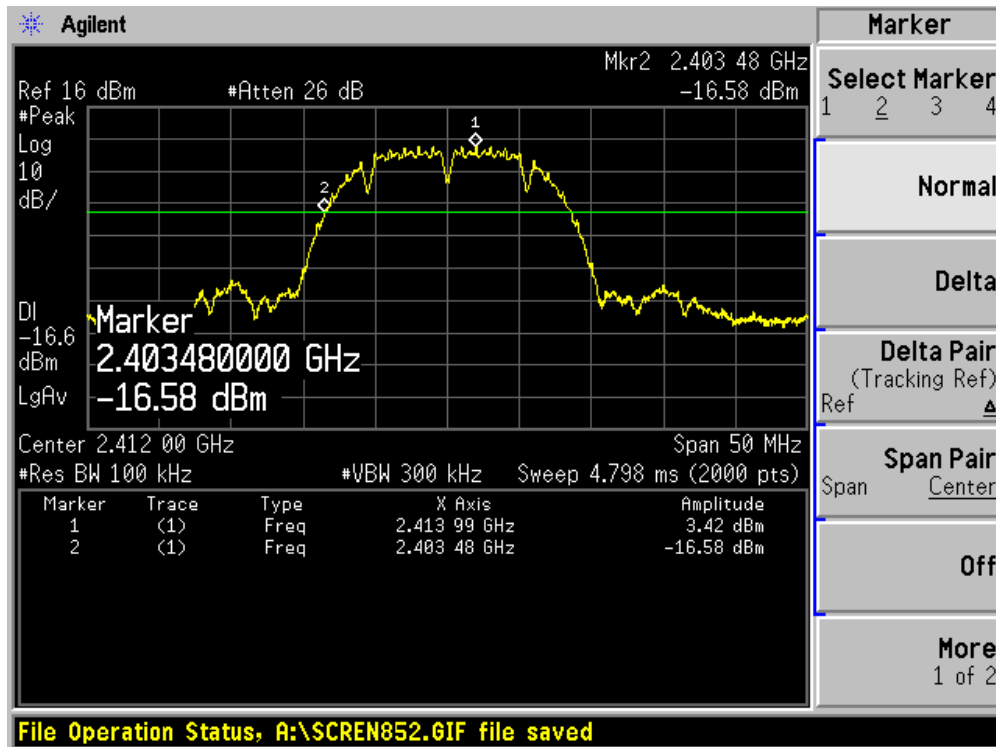


Channel 09 (2452MHz)

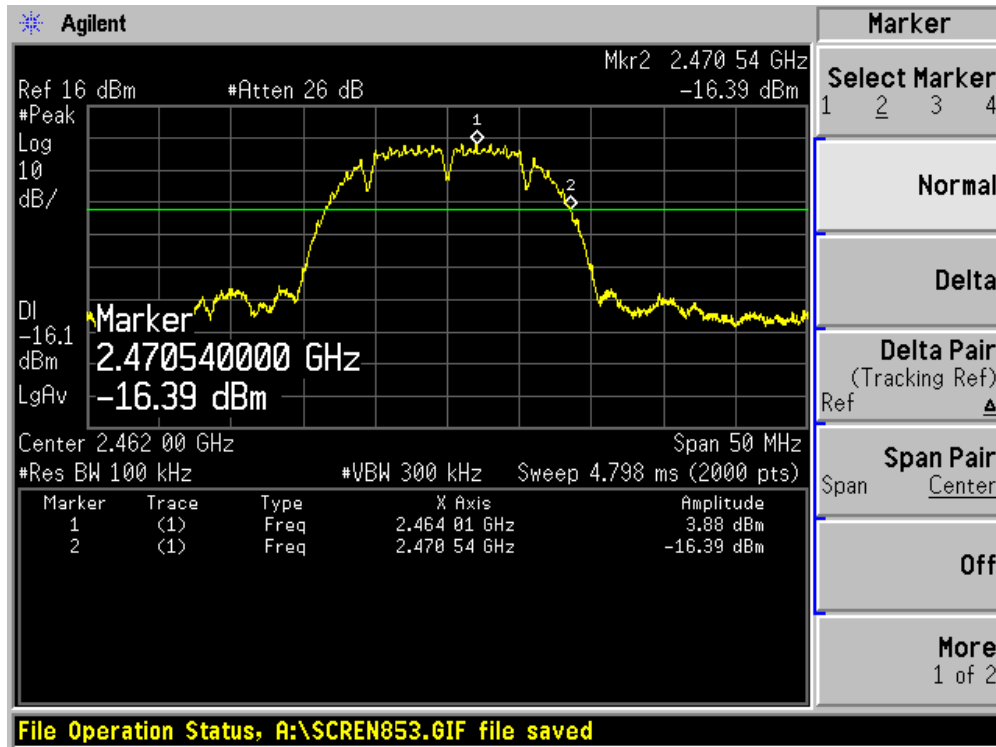


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 1: Transmit by 802.11b (DAC1)

Channel 01 (2412MHz)

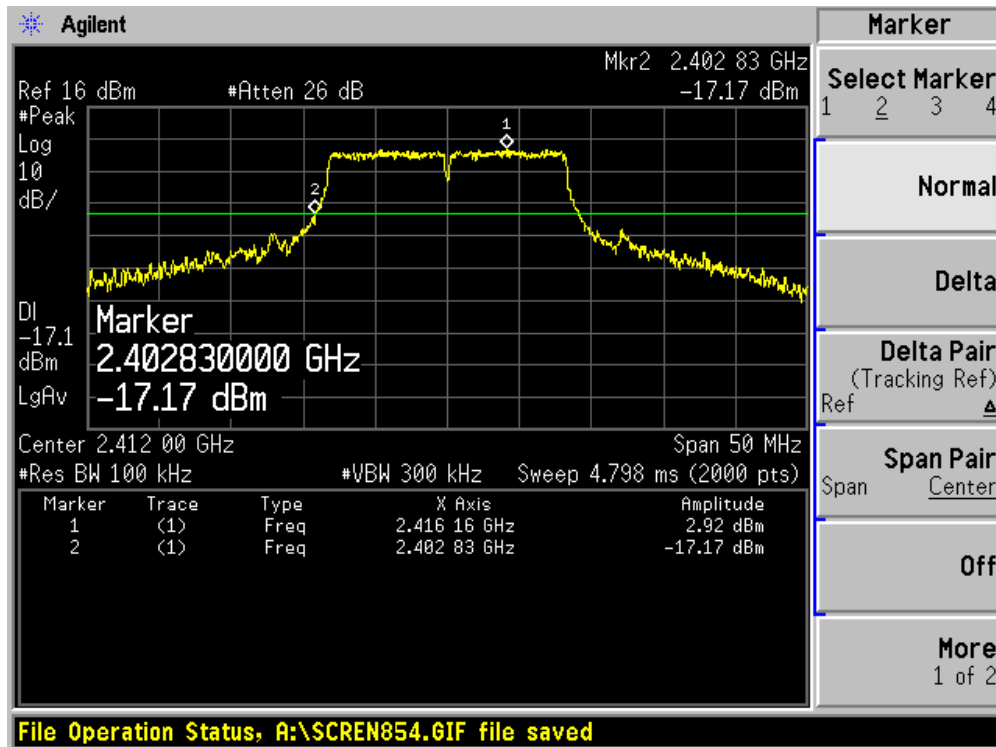


Channel 11 (2462MHz)

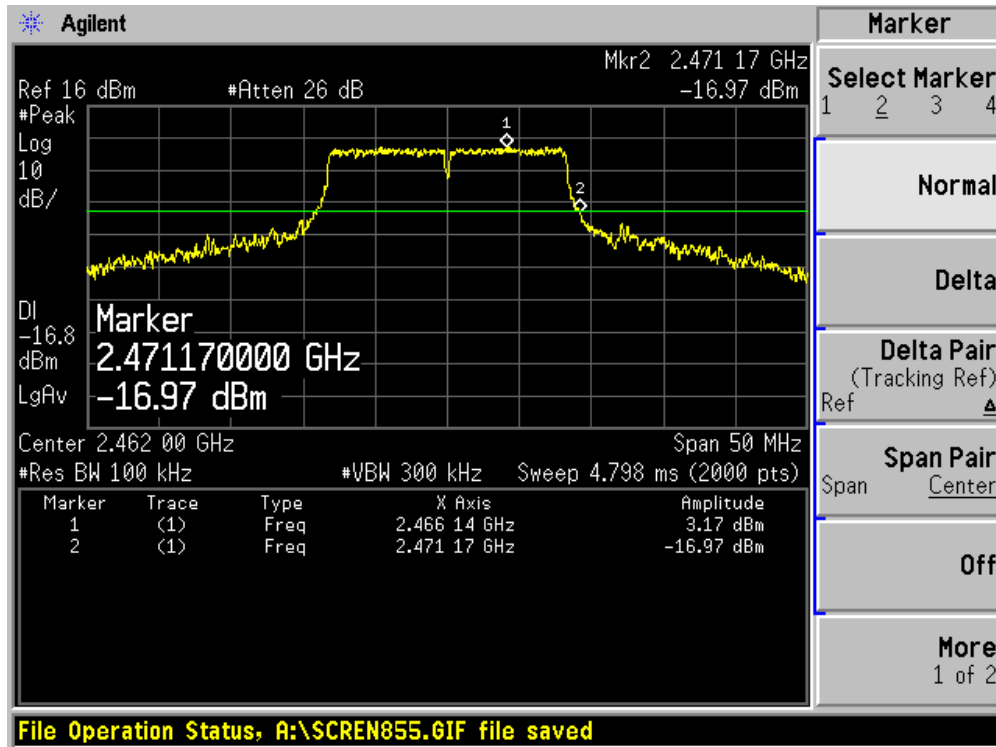


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g (DAC1)

Channel 01 (2412MHz)

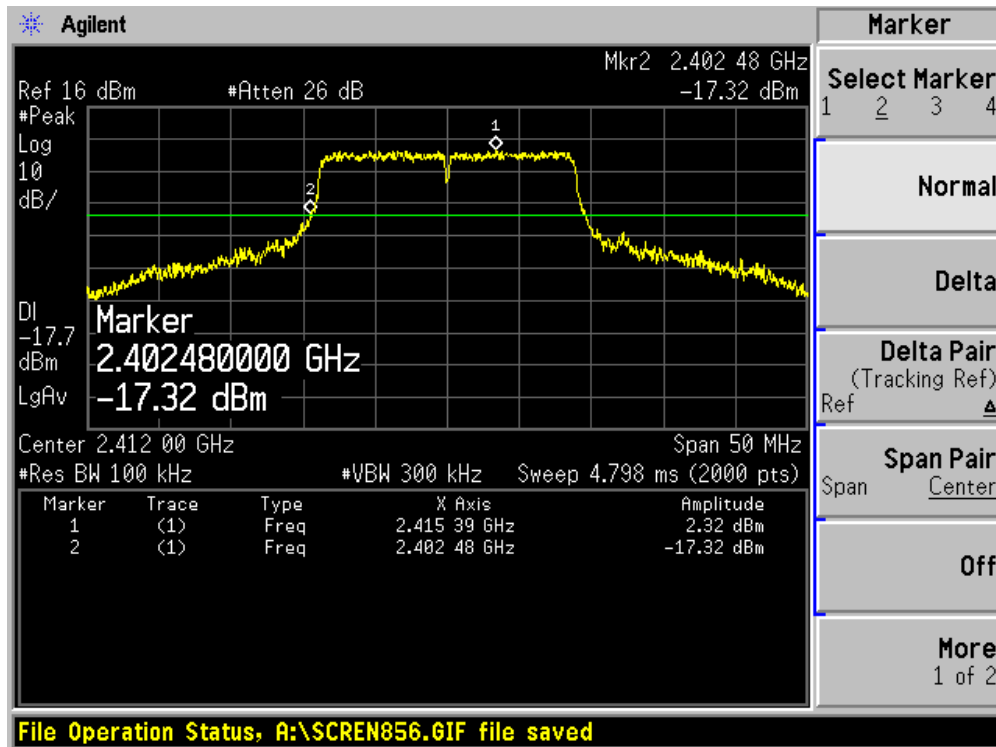


Channel 11 (2462MHz)

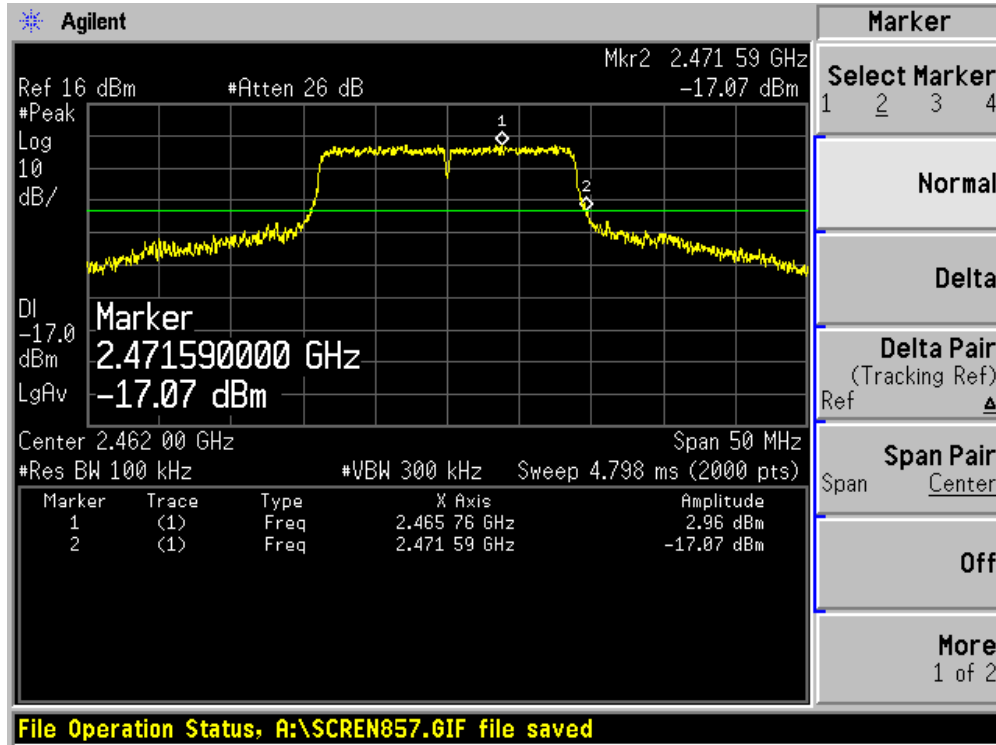


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 3: Transmit by 802.11n (20MHz) (DAC1)

Channel 01 (2412MHz)

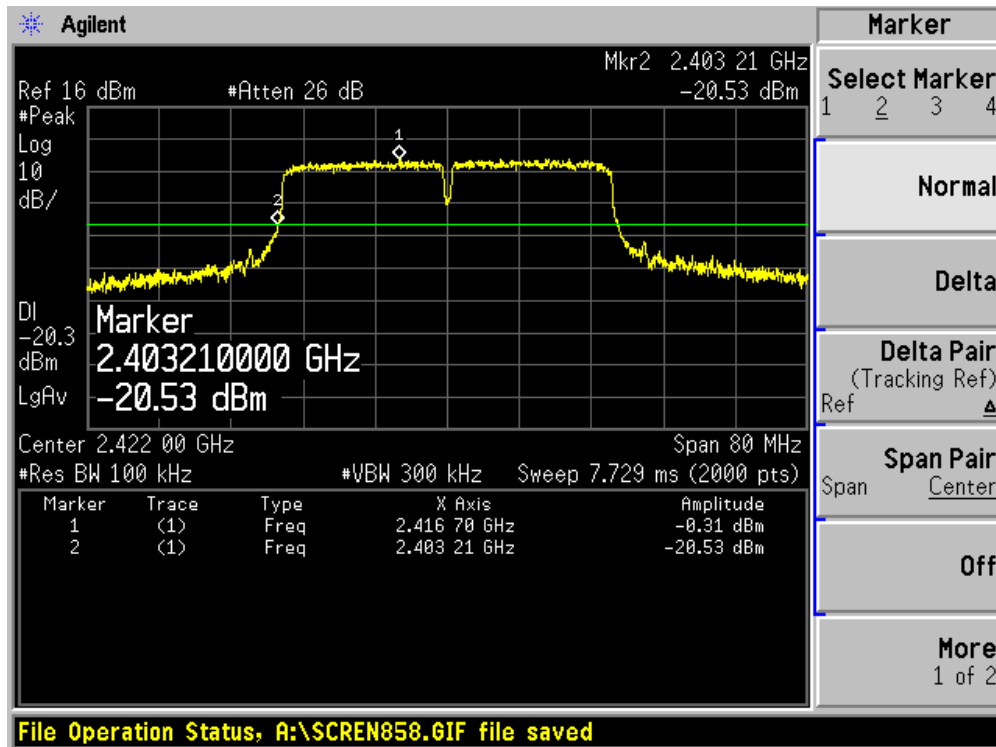


Channel 11 (2462MHz)

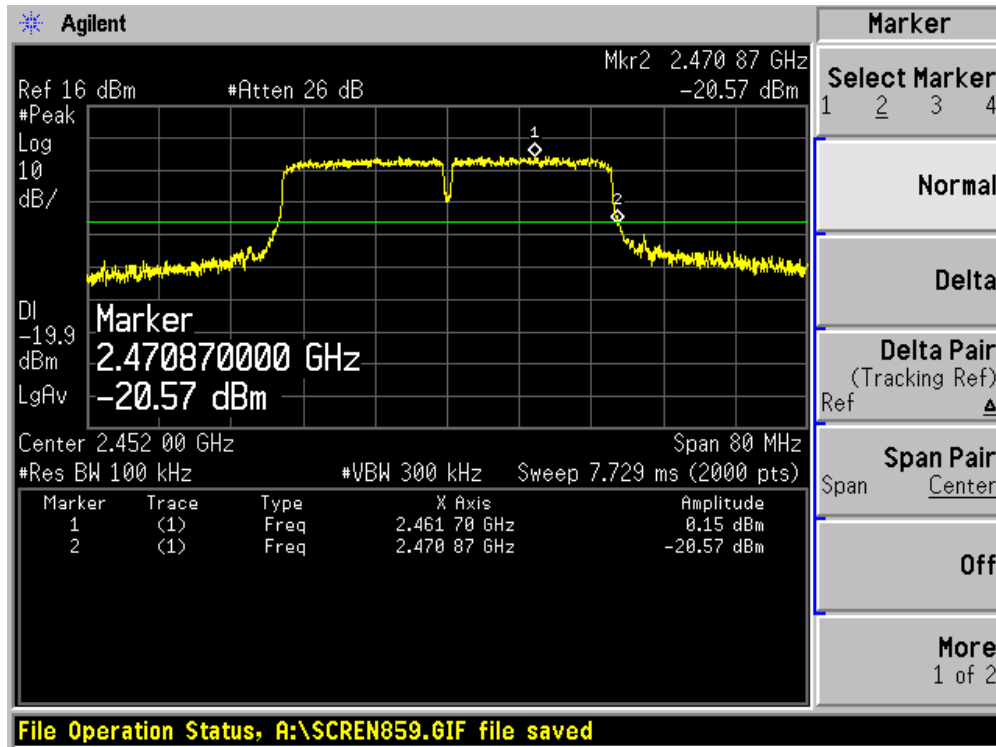


Product	: 802.11n Wireless LAN Module
Test Item	: Operation Frequency Range of 20dB Bandwidth
Test Site	: AC-4
Test Mode	: Mode 4: Transmit by 802.11n (40MHz) (DAC1)

Channel 03 (2422MHz)



Channel 09 (2452MHz)



8. Occupied Bandwidth

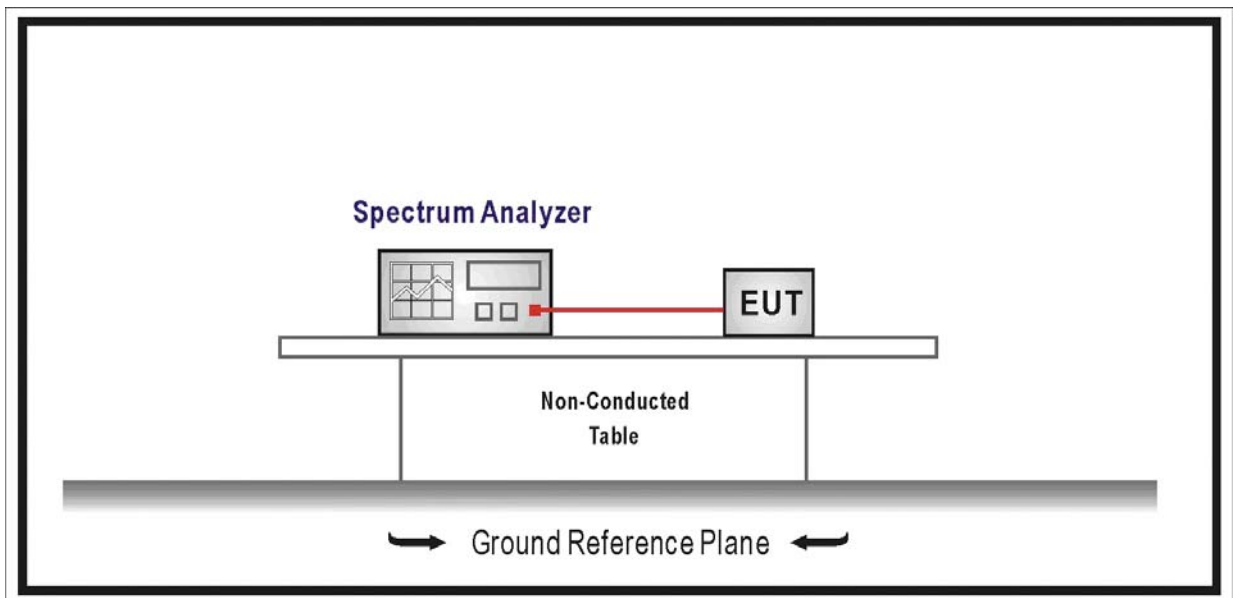
8.1. Test Equipment

Occupied Bandwidth / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

8.2. Test Setup



8.3. Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

8.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

8.5. Uncertainty

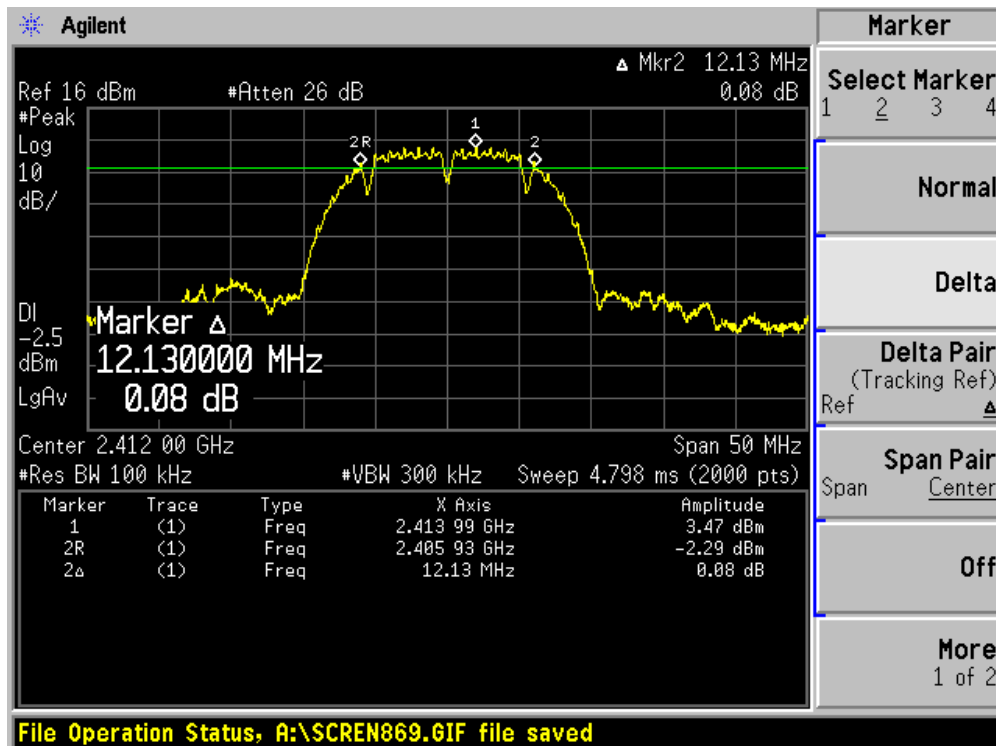
The measurement uncertainty is defined as ± 1 kHz

8.6. Test Result

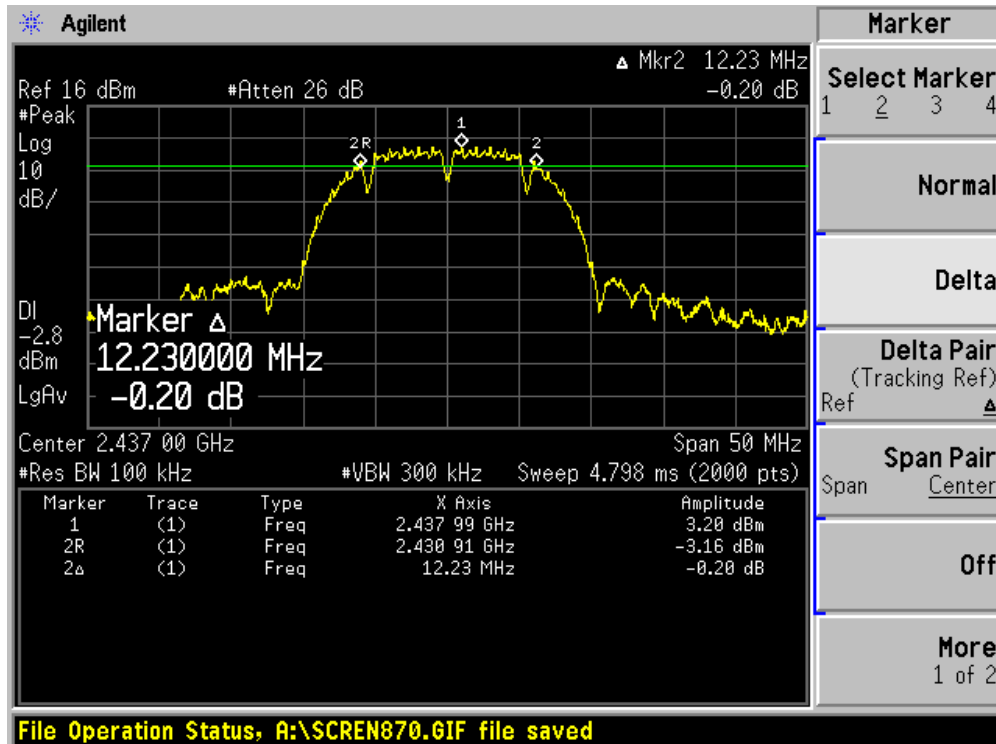
Product	:	802.11n Wireless LAN Module
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12130	500	Pass
06	2437	12230	500	Pass
11	2462	12280	500	Pass

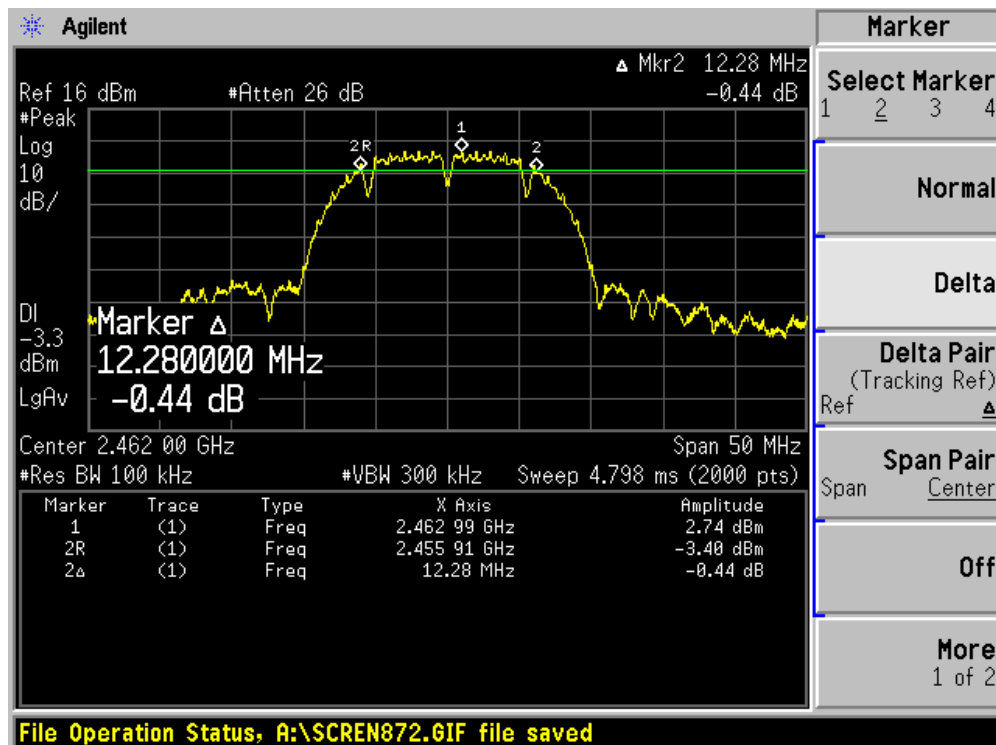
Channel 01 (2412MHz)



Channel 06 (2437MHz)



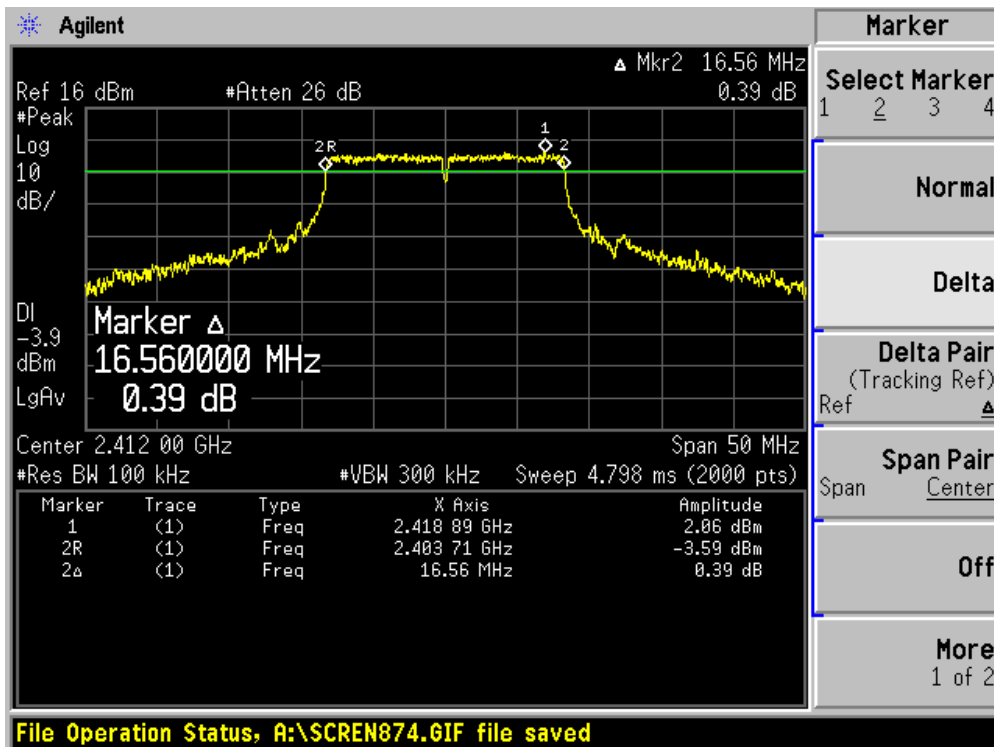
Channel 11 (2462MHz)



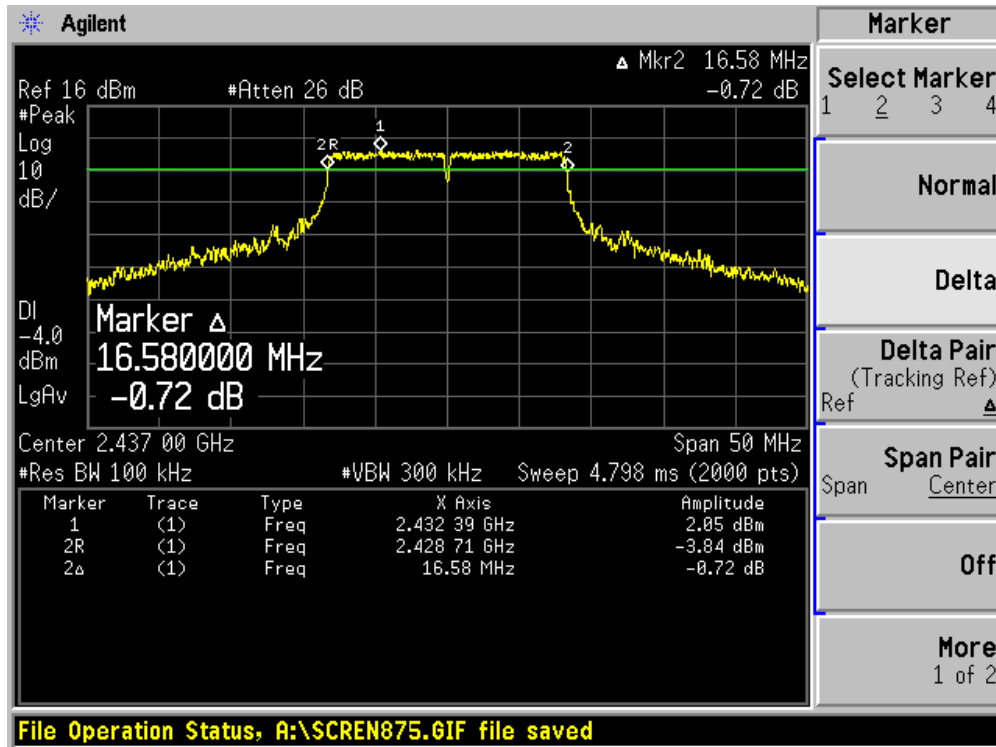
Product	: 802.11n Wireless LAN Module
Test Item	: Occupied Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g (DAC0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16560	500	Pass
06	2437	16580	500	Pass
11	2462	16580	500	Pass

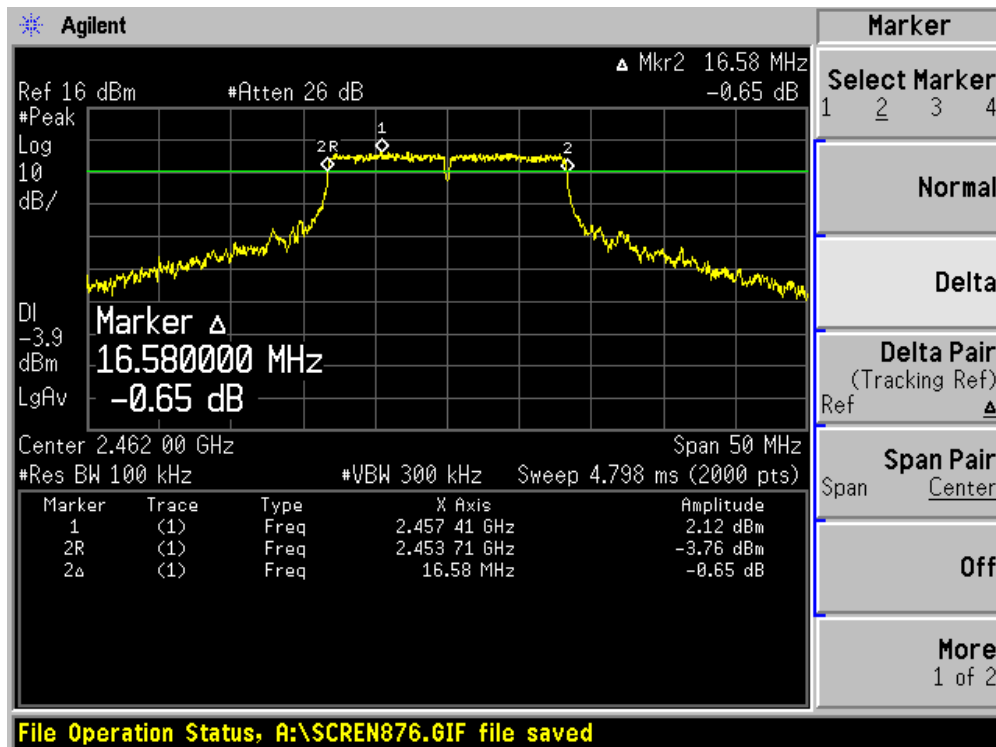
Channel 01 (2412MHz)



Channel 06 (2437MHz)



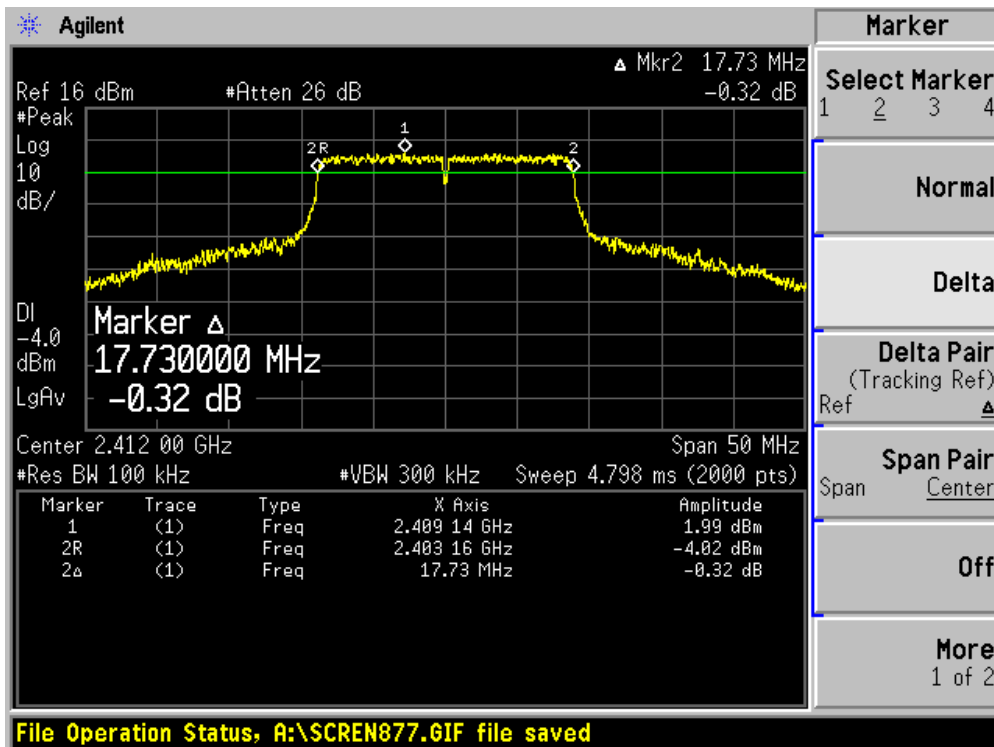
Channel 11 (2462MHz)



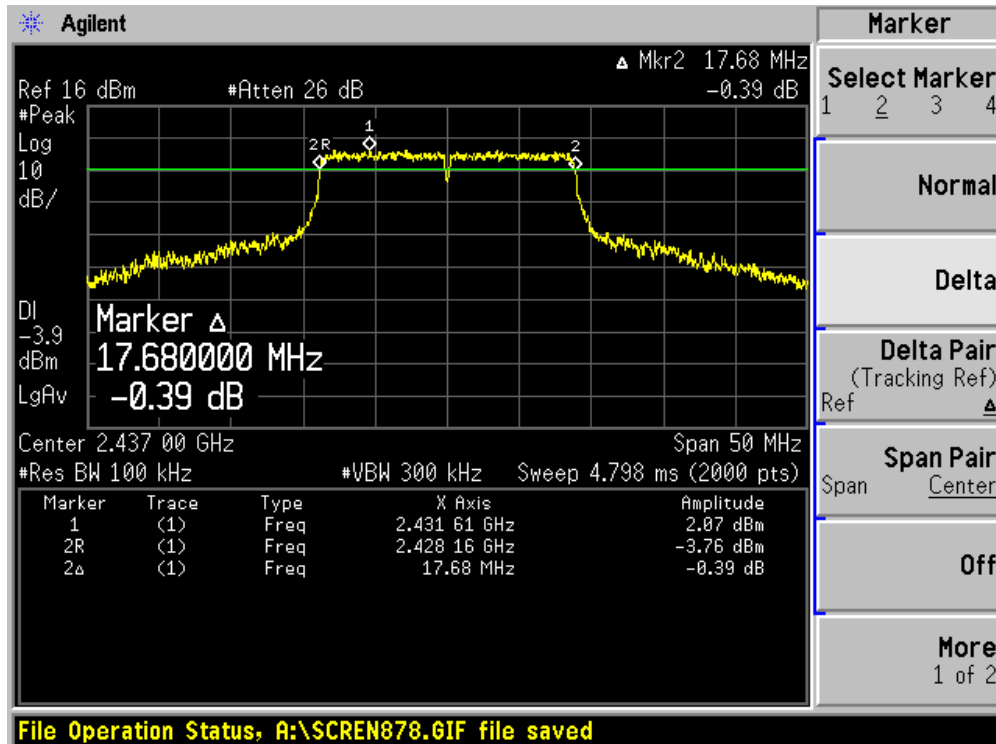
Product	: 802.11n Wireless LAN Module
Test Item	: Occupied Bandwidth
Test Site	: AC-4
Test Mode	: Mode 3: Transmit by 802.11n (20MHz) (DAC0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17730	500	Pass
06	2437	17680	500	Pass
11	2462	17710	500	Pass

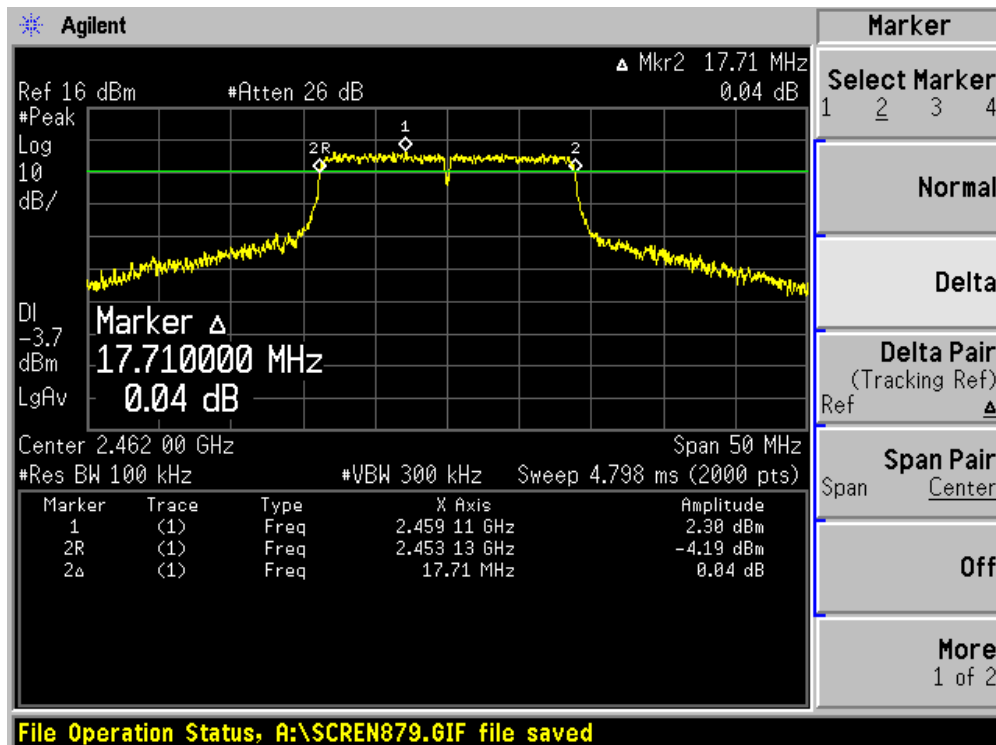
Channel 01 (2412MHz)



Channel 06 (2437MHz)



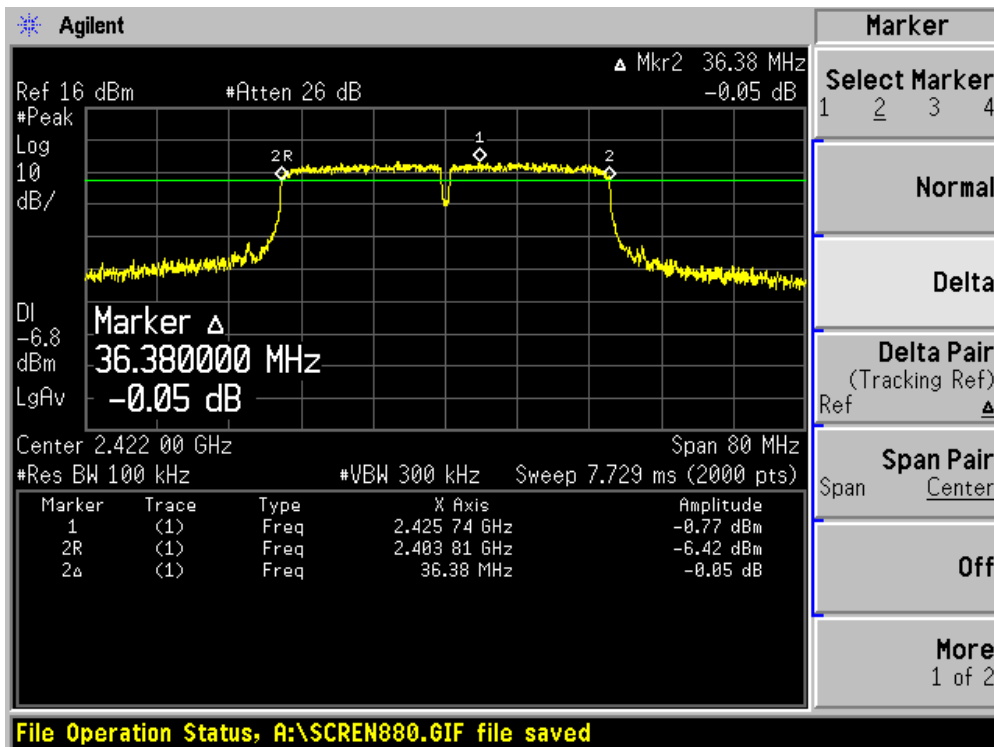
Channel 11 (2462MHz)



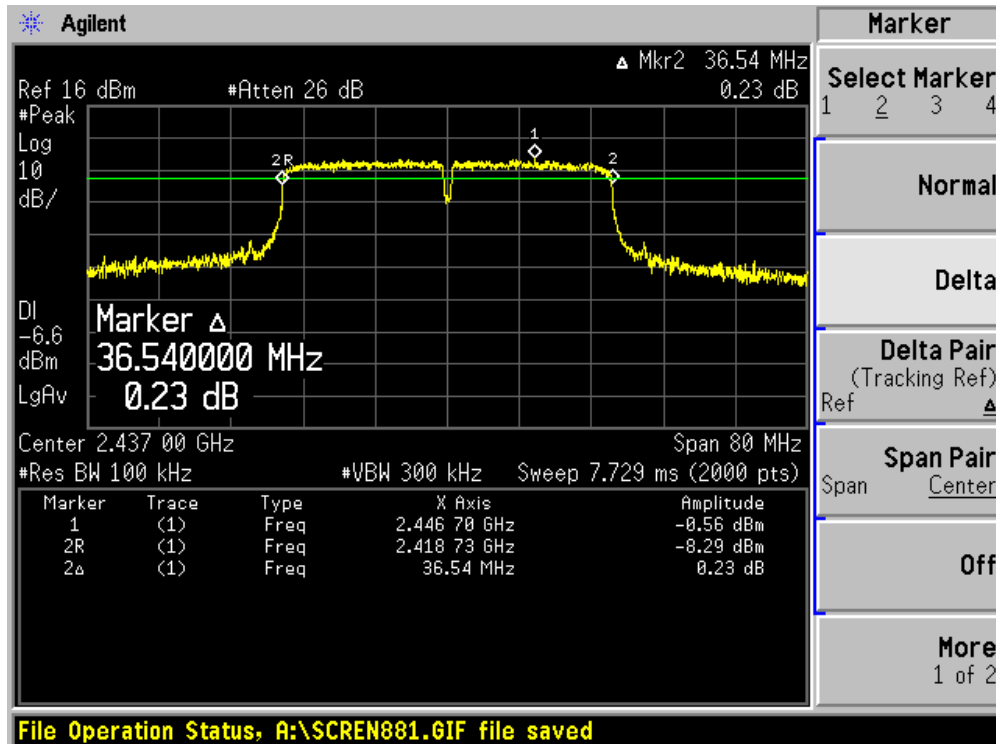
Product	:	802.11n Wireless LAN Module
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC0)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36380	500	Pass
06	2437	36540	500	Pass
09	2452	36420	500	Pass

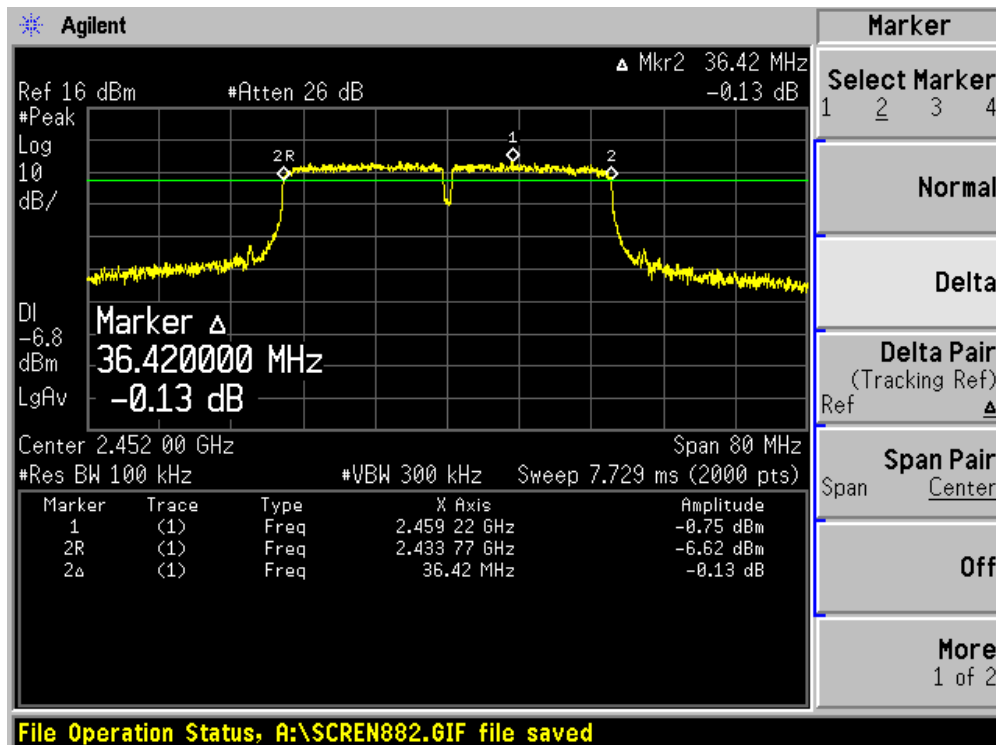
Channel 03 (2422MHz)



Channel 06 (2437MHz)



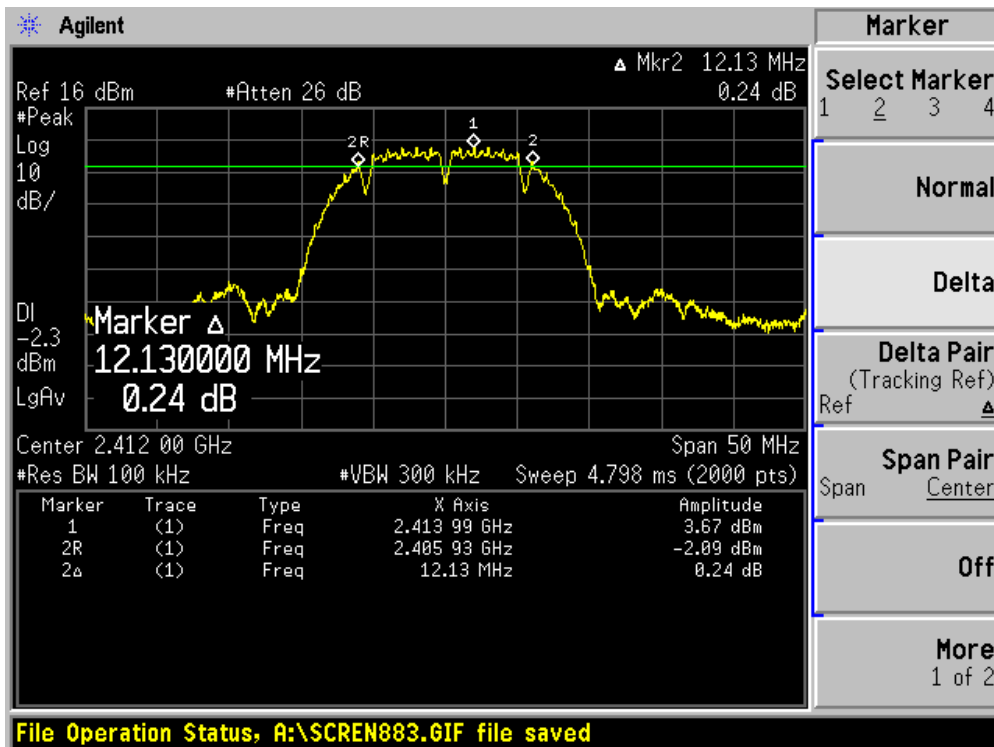
Channel 09 (2452MHz)



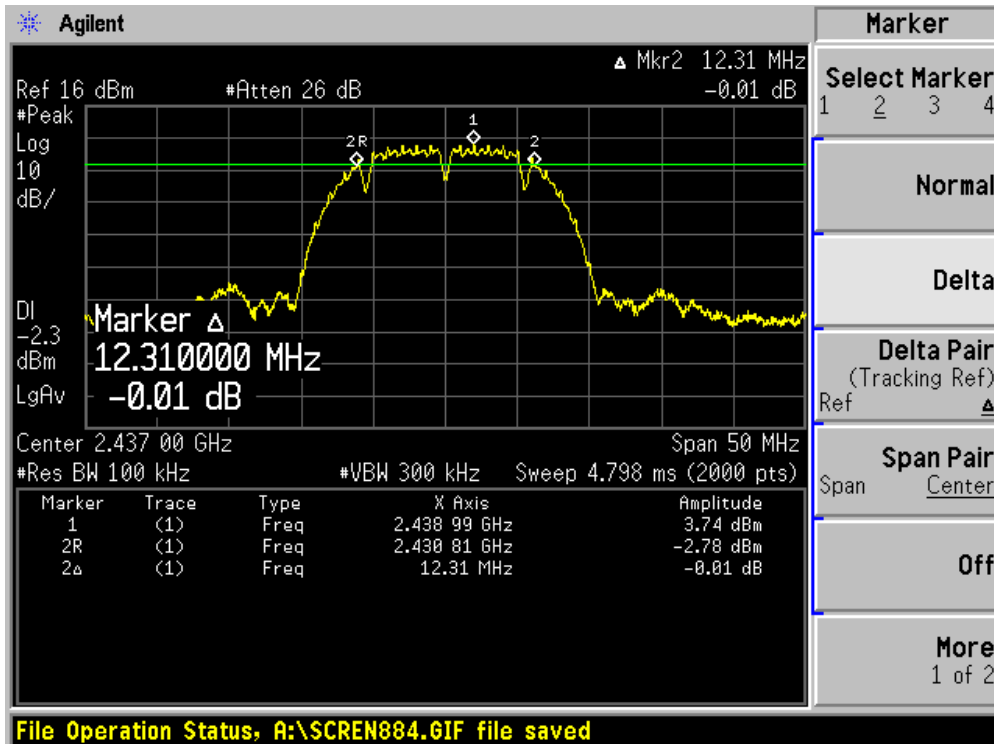
Product	:	802.11n Wireless LAN Module
Test Item	:	Occupied Bandwidth
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	12130	500	Pass
06	2437	12310	500	Pass
11	2462	12130	500	Pass

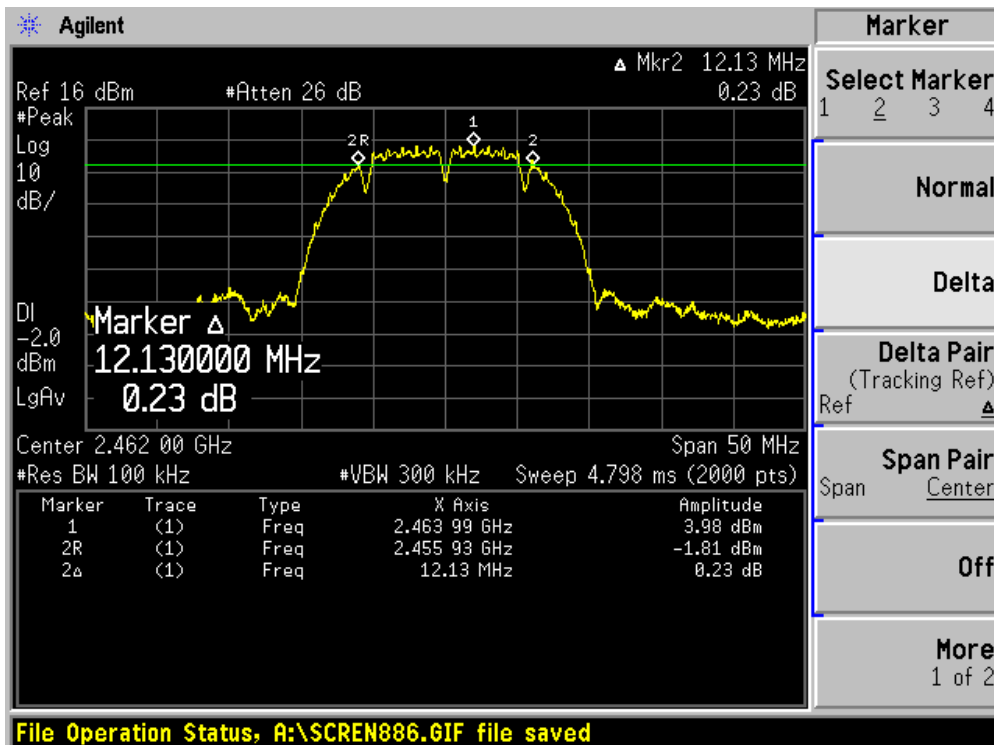
Channel 01 (2412MHz)



Channel 06 (2437MHz)



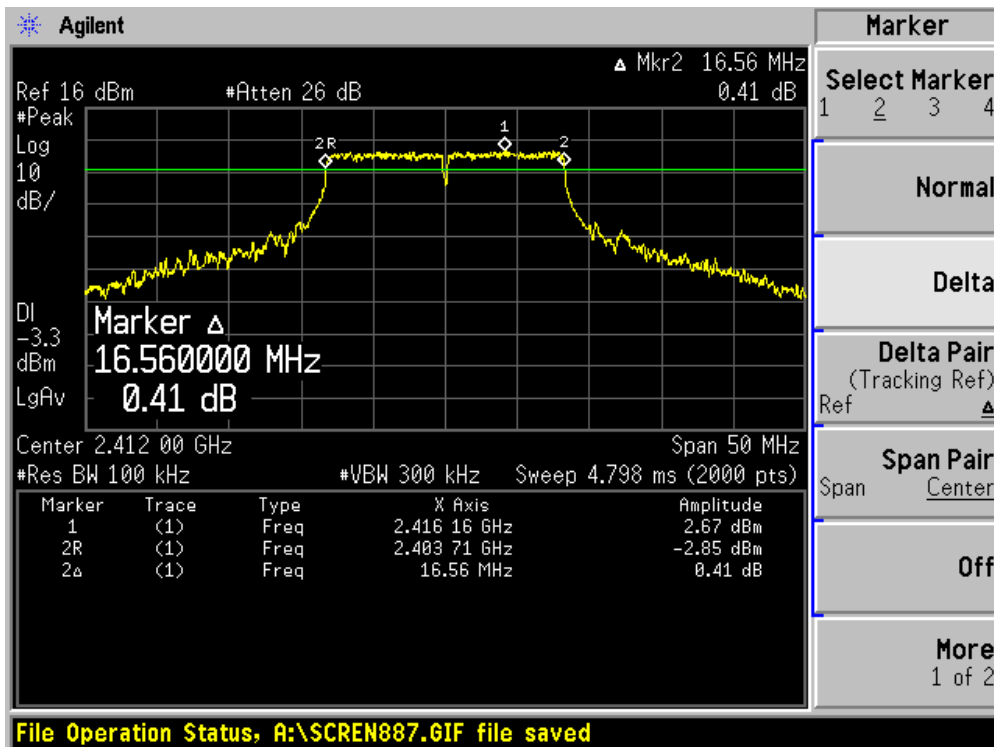
Channel 11 (2462MHz)



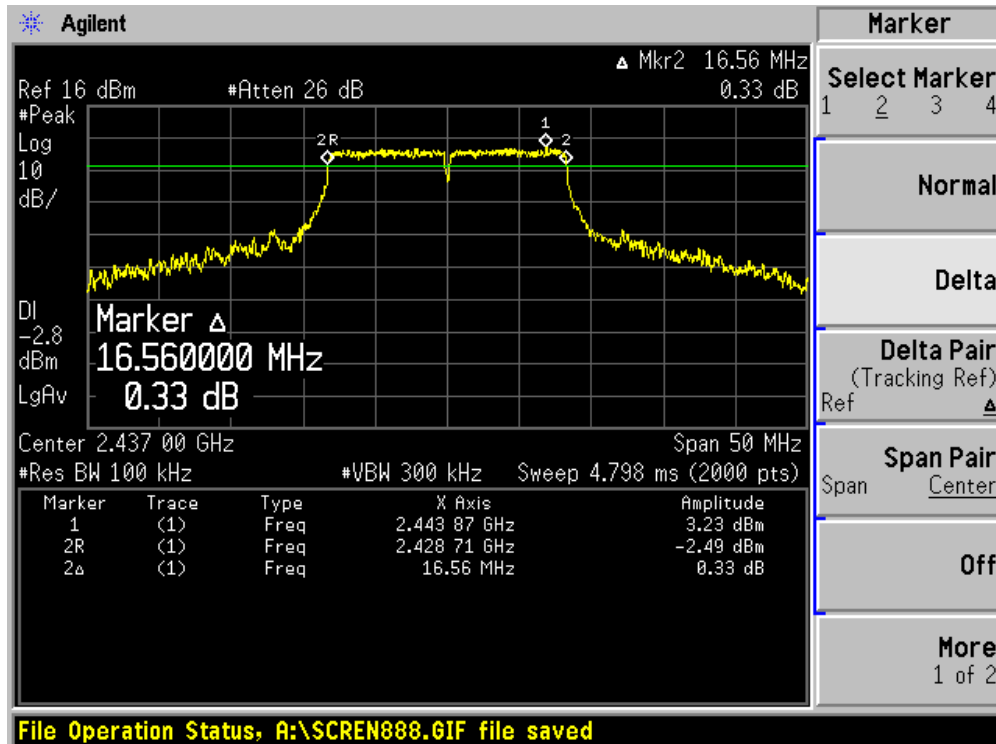
Product	: 802.11n Wireless LAN Module
Test Item	: Occupied Bandwidth
Test Site	: AC-4
Test Mode	: Mode 2: Transmit by 802.11g (DAC1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	16560	500	Pass
06	2437	16560	500	Pass
11	2462	16560	500	Pass

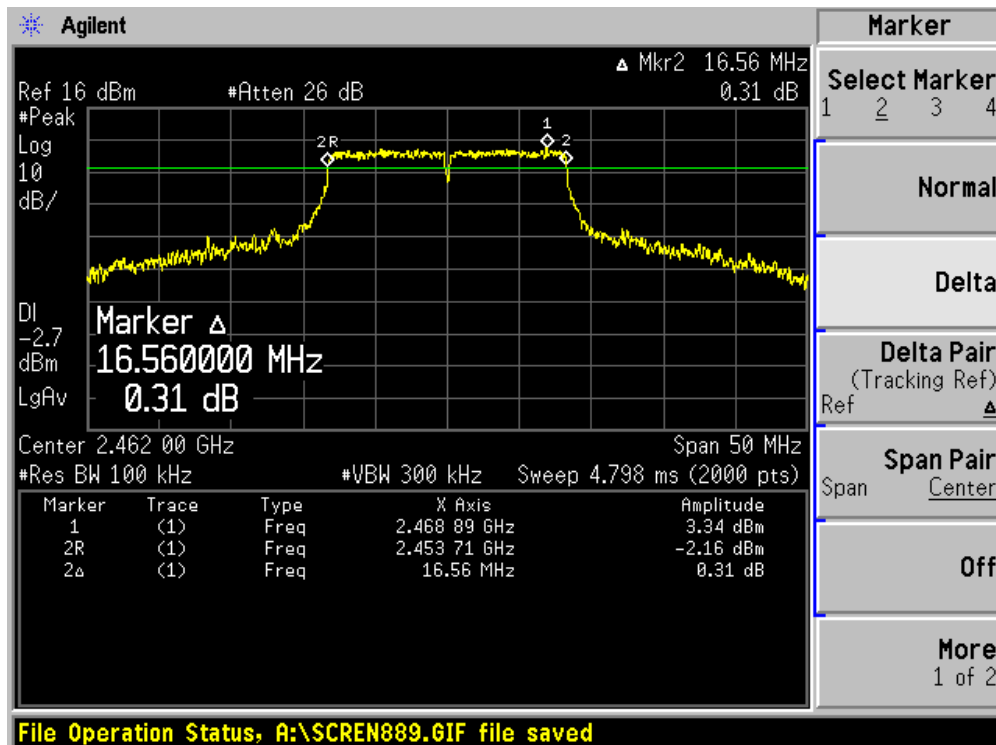
Channel 01 (2412MHz)



Channel 06 (2437MHz)



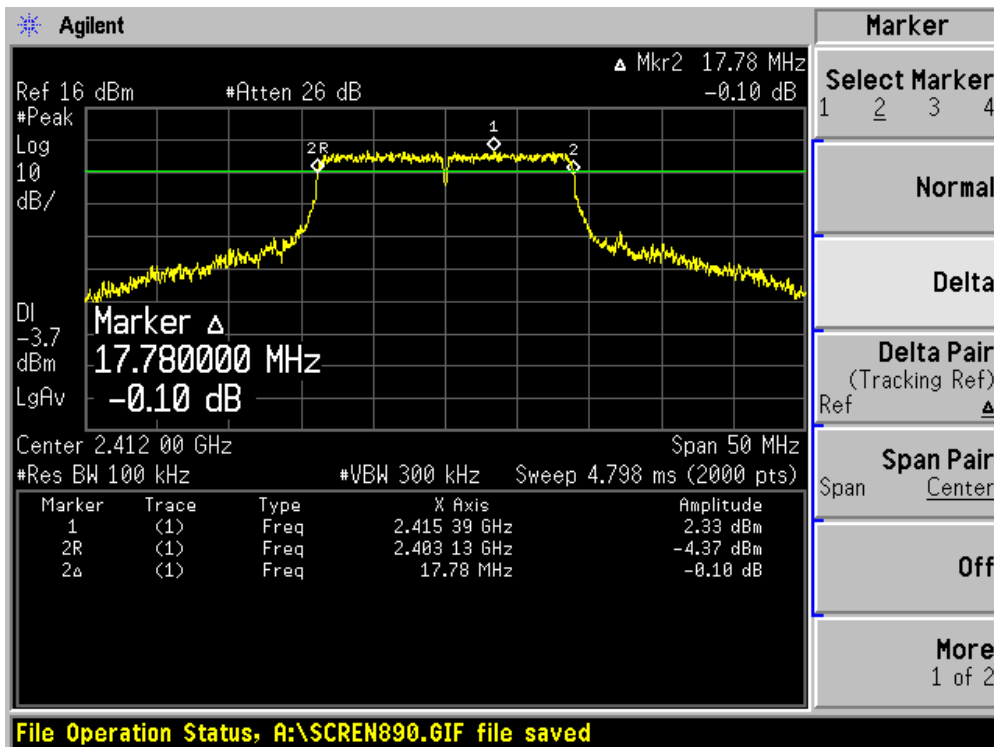
Channel 11 (2462MHz)



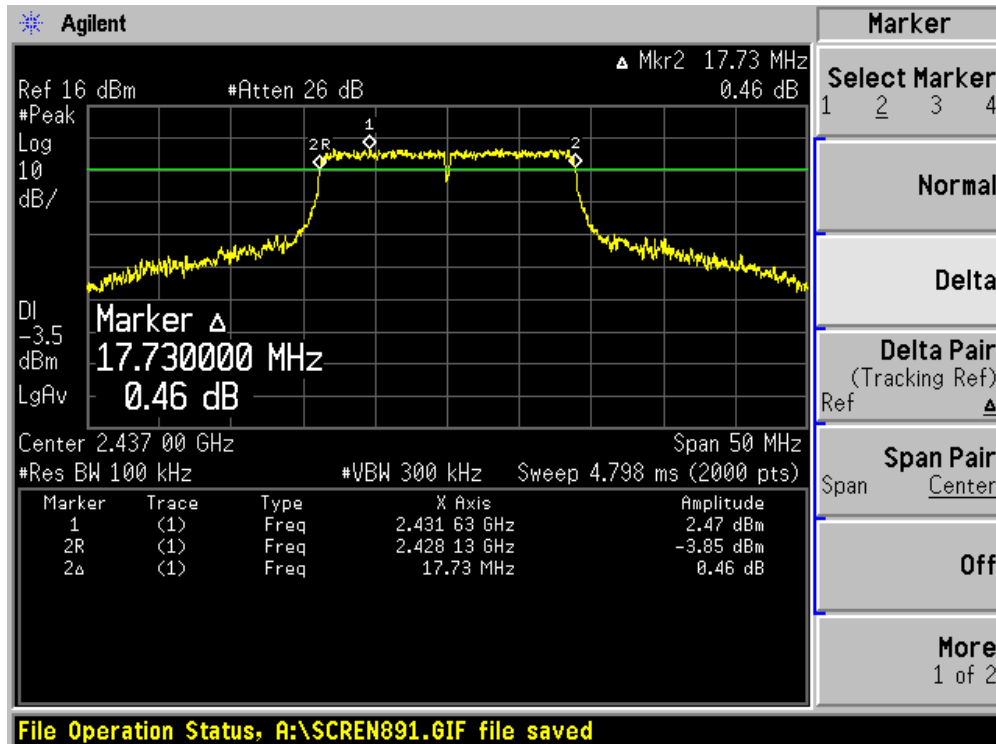
Product	: 802.11n Wireless LAN Module
Test Item	: Occupied Bandwidth
Test Site	: AC-4
Test Mode	: Mode 3: Transmit by 802.11n (20MHz) (DAC1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
01	2412	17780	500	Pass
06	2437	17730	500	Pass
11	2462	17680	500	Pass

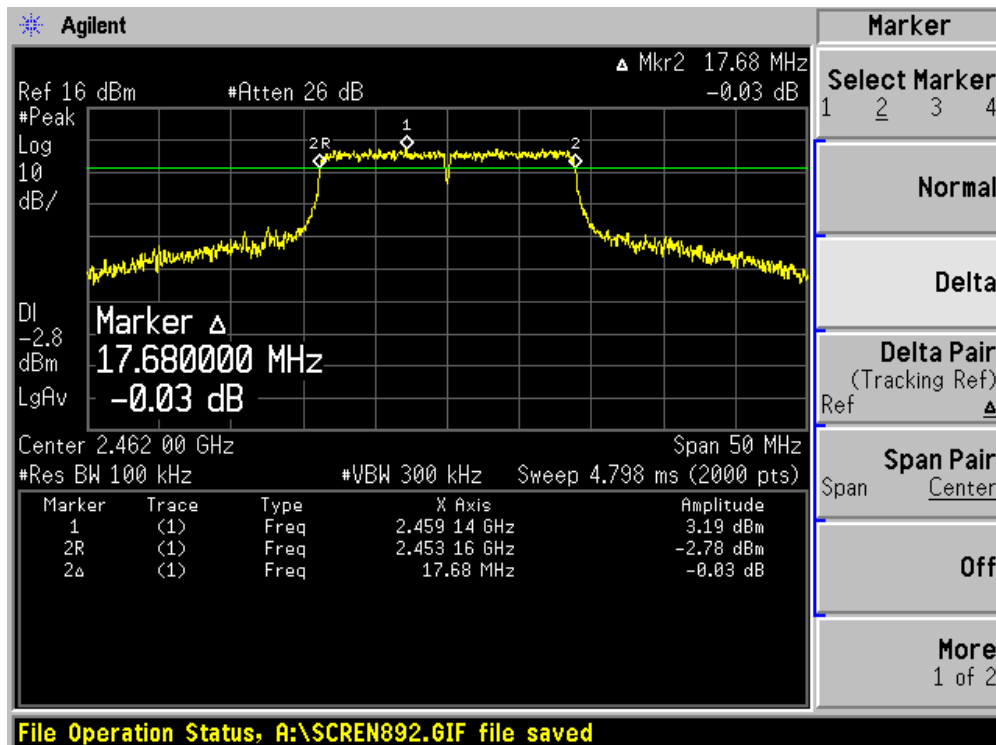
Channel 01 (2412MHz)



Channel 06 (2437MHz)



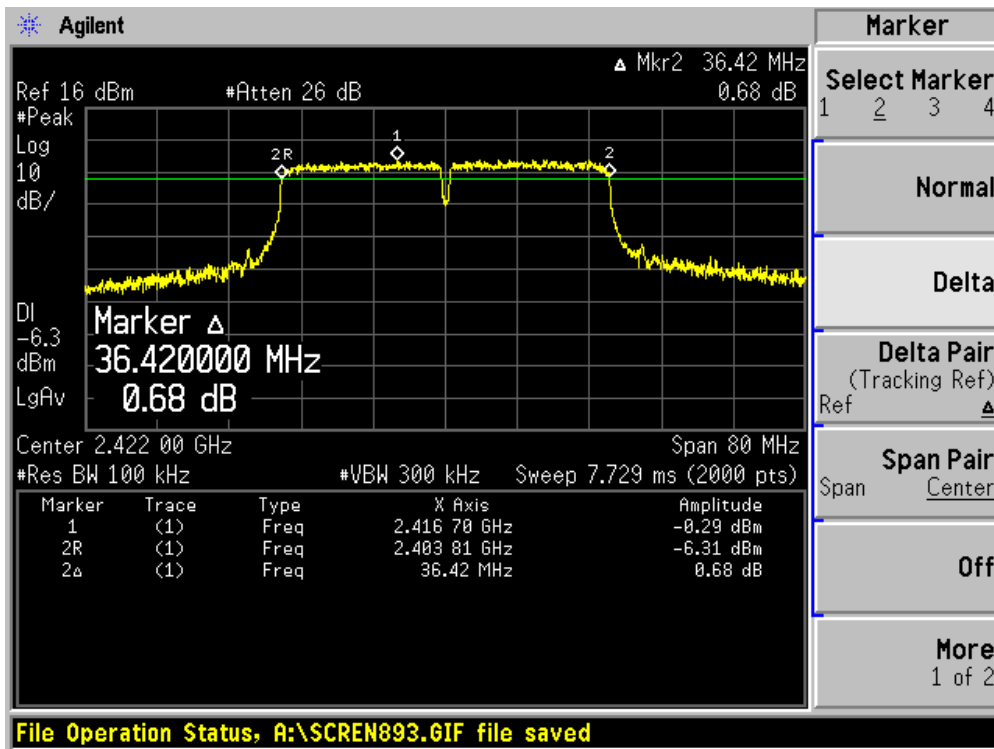
Channel 11 (2462MHz)



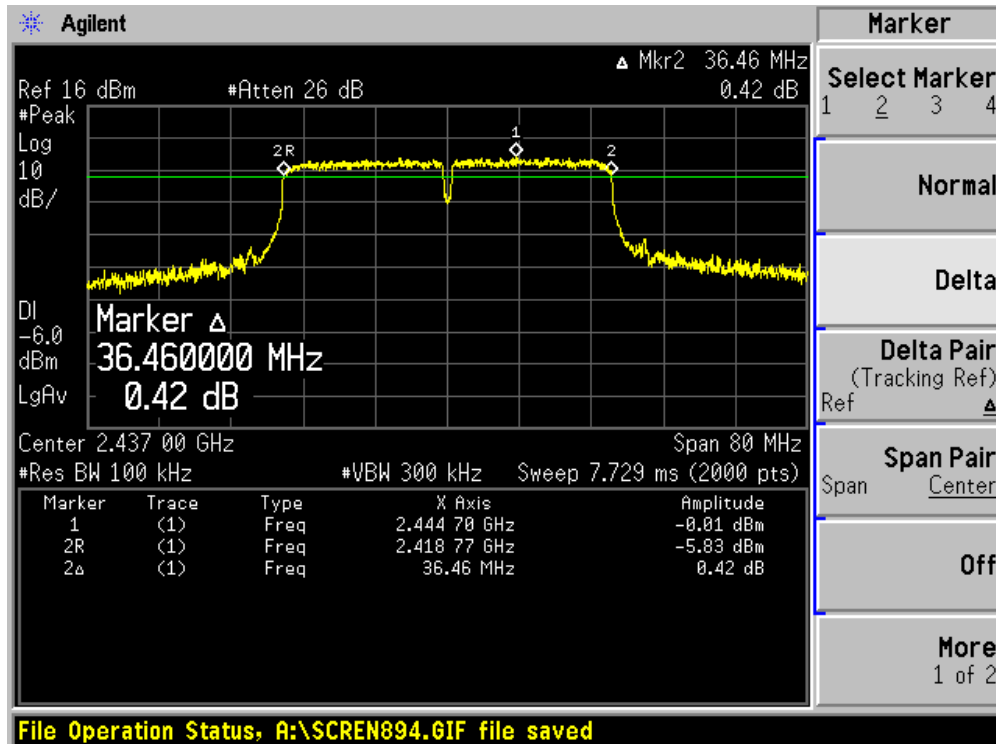
Product	: 802.11n Wireless LAN Module
Test Item	: Occupied Bandwidth
Test Site	: AC-4
Test Mode	: Mode 4: Transmit by 802.11n (40MHz) (DAC1)

Channel No.	Frequency (MHz)	Occupied Bandwidth (kHz)	Limit (kHz)	Result
03	2422	36420	500	Pass
06	2437	36460	500	Pass
09	2452	36420	500	Pass

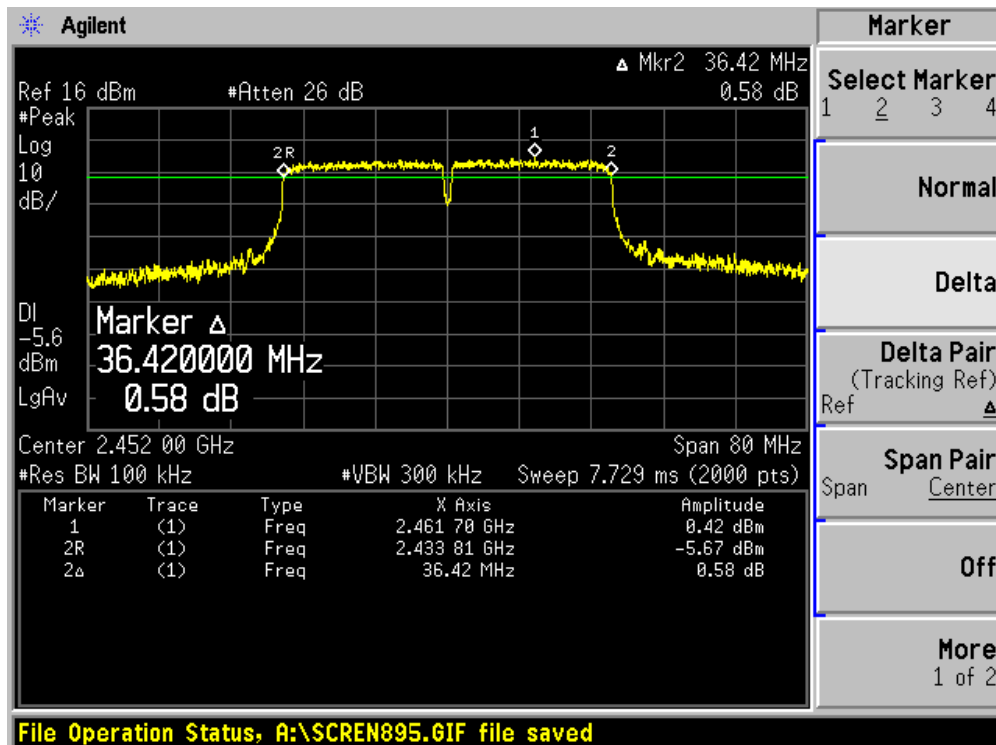
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)



9. Power Output

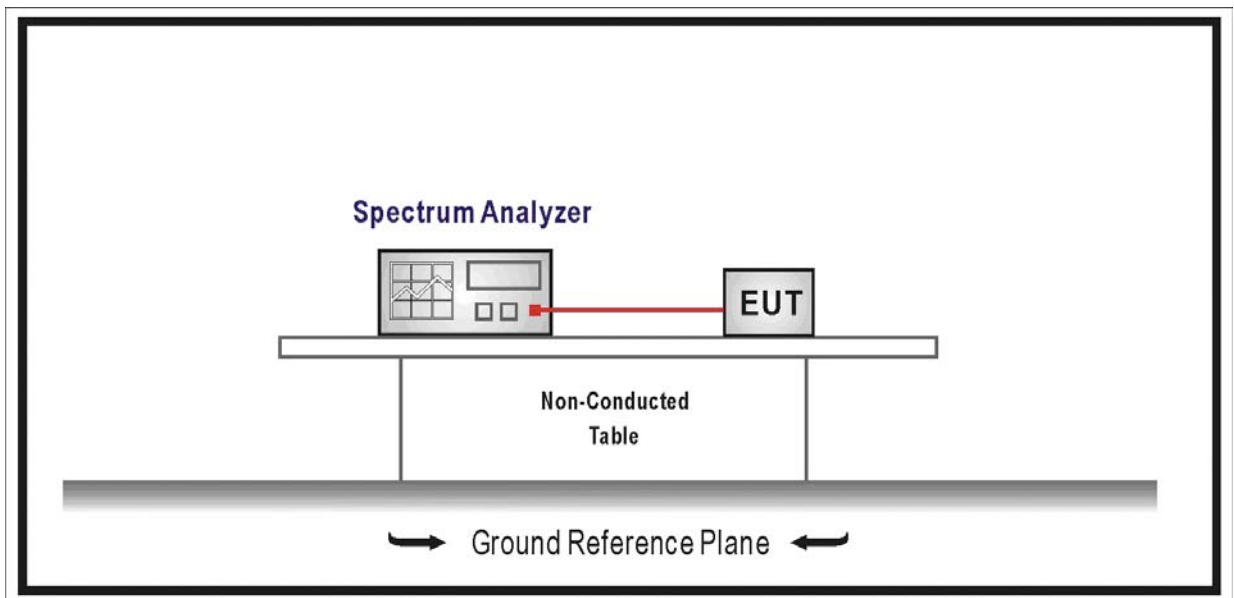
9.1. Test Equipment

Power Output / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

9.2. Test Setup



9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

9.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Power output measurement allowed per Section 15.247(b)(3).

In the following, “T” is the transmission pulse duration over which the transmitter is on and transmitting at its maximum power control level. Measurements are performed with a spectrum analyzer. Three methods are provided to accommodate measurement limitations of the spectrum analyzer depending on signal parameters. Set resolution bandwidth (RBW) = 1 MHz. Set span to encompass the entire emission bandwidth (EBW) of the signal. Use automatic setting for analyzer sweep time.

As “T” \geq sweep time, the test procedure will be used as following:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz.
3. Set VBW \geq 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.

9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

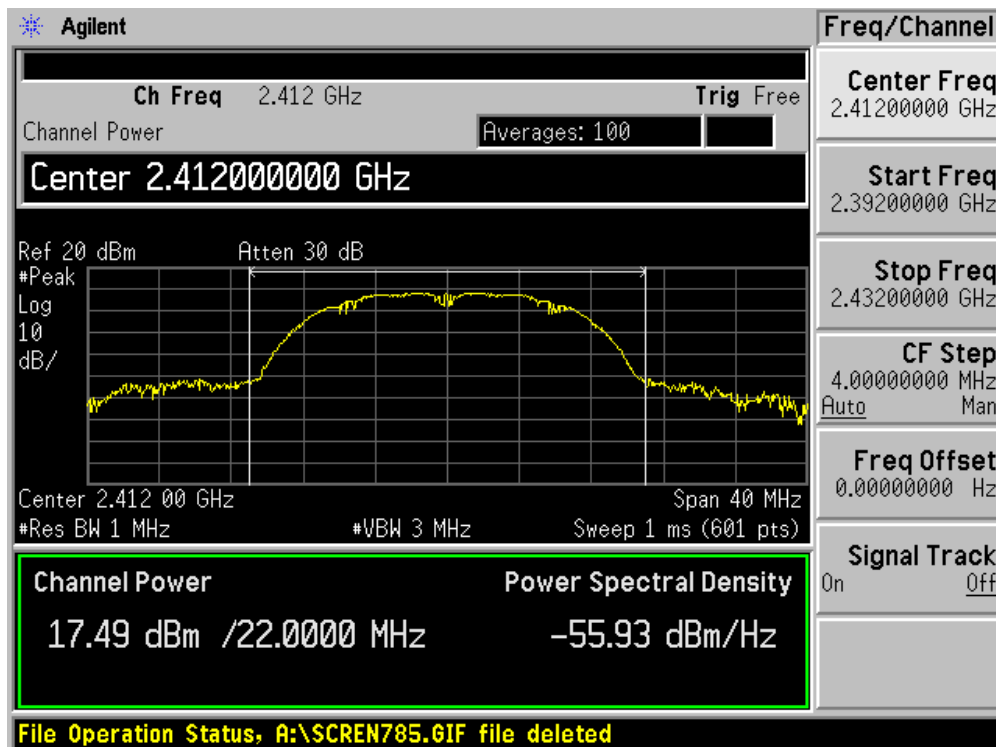
9.6. Test Result

Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC0)

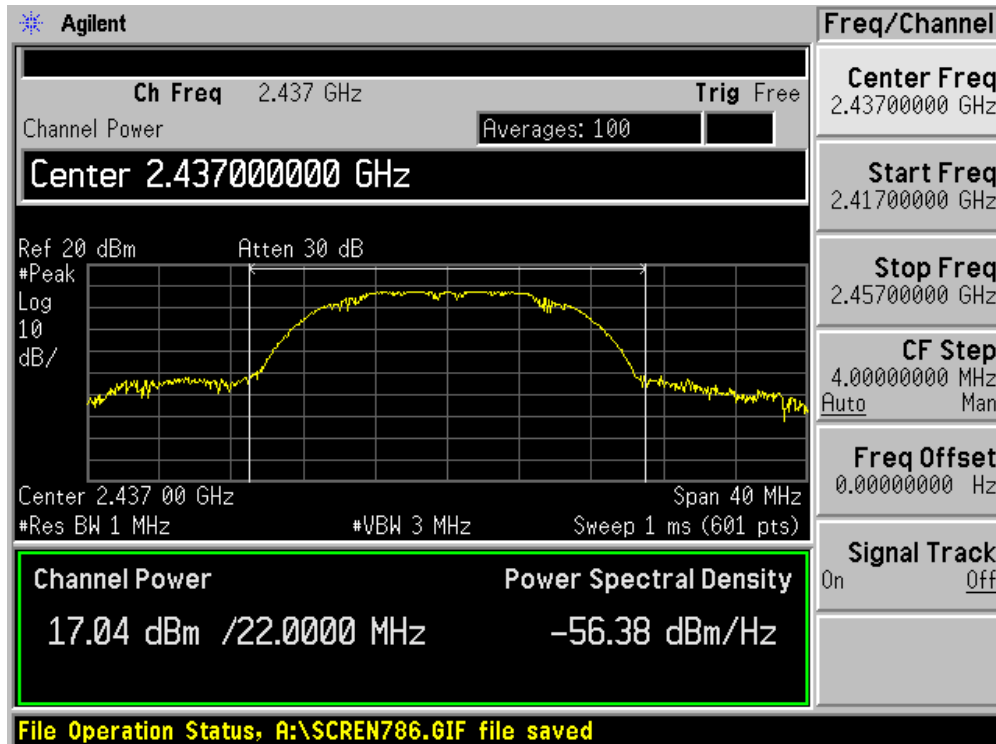
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	17.49	--	--	--	30
06	2437	17.04	17.02	16.98	16.95	30
11	2462	16.92	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

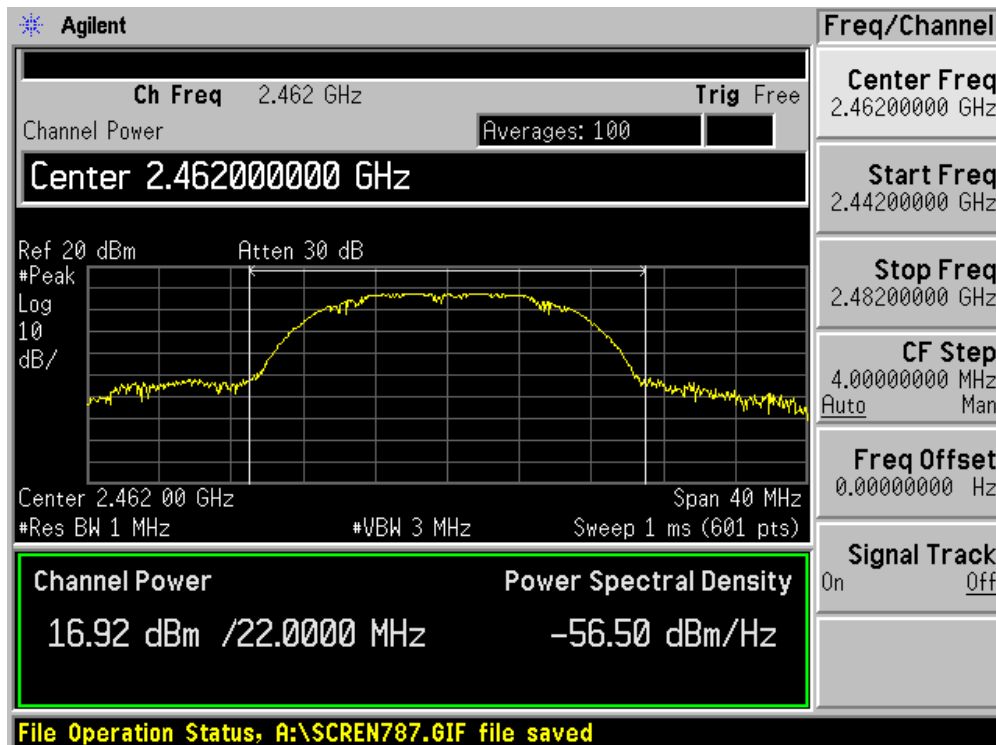
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

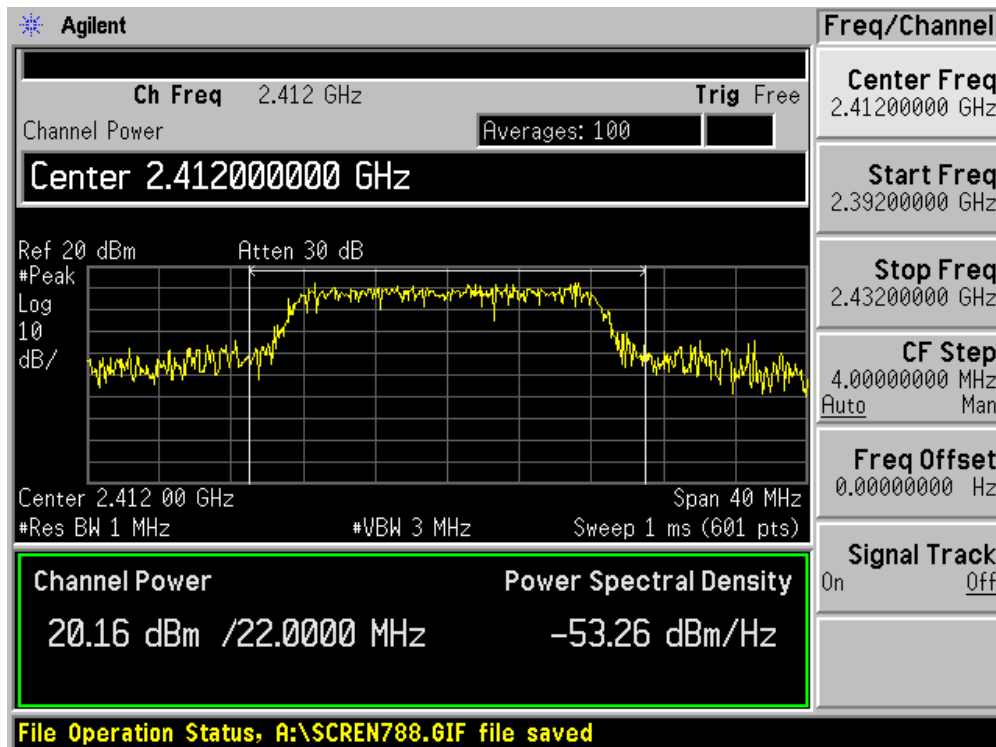


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC0)

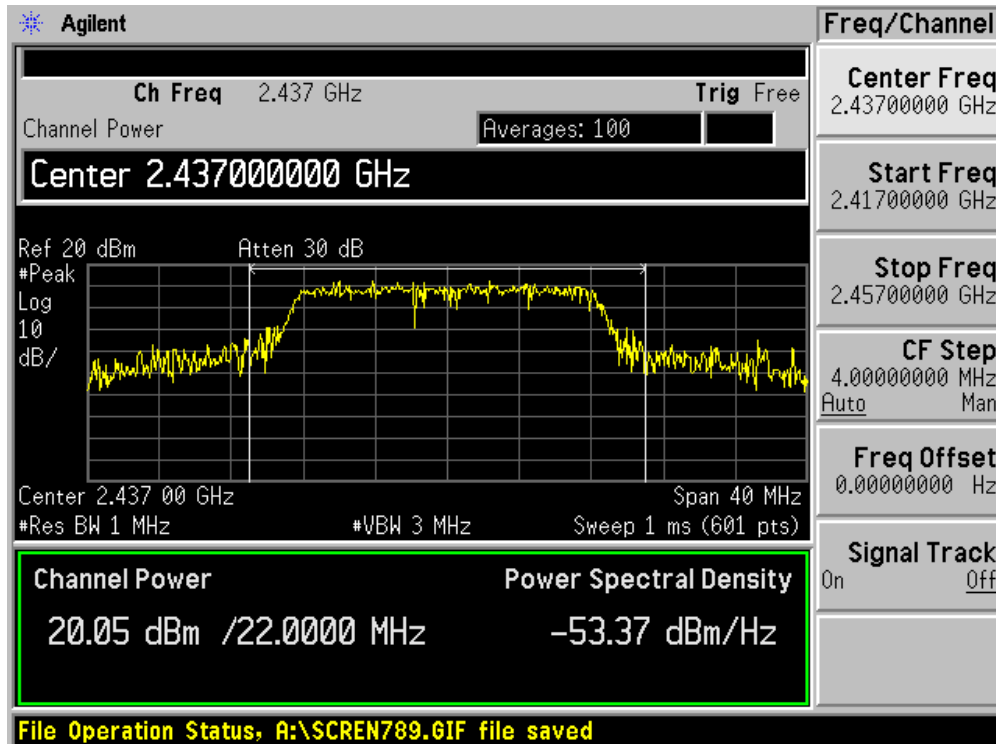
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	20.16	--	--	--	--	--	--	--	30
06	2437	20.05	20.02	20.00	19.98	19.95	19.91	19.89	19.86	30
11	2462	19.77	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

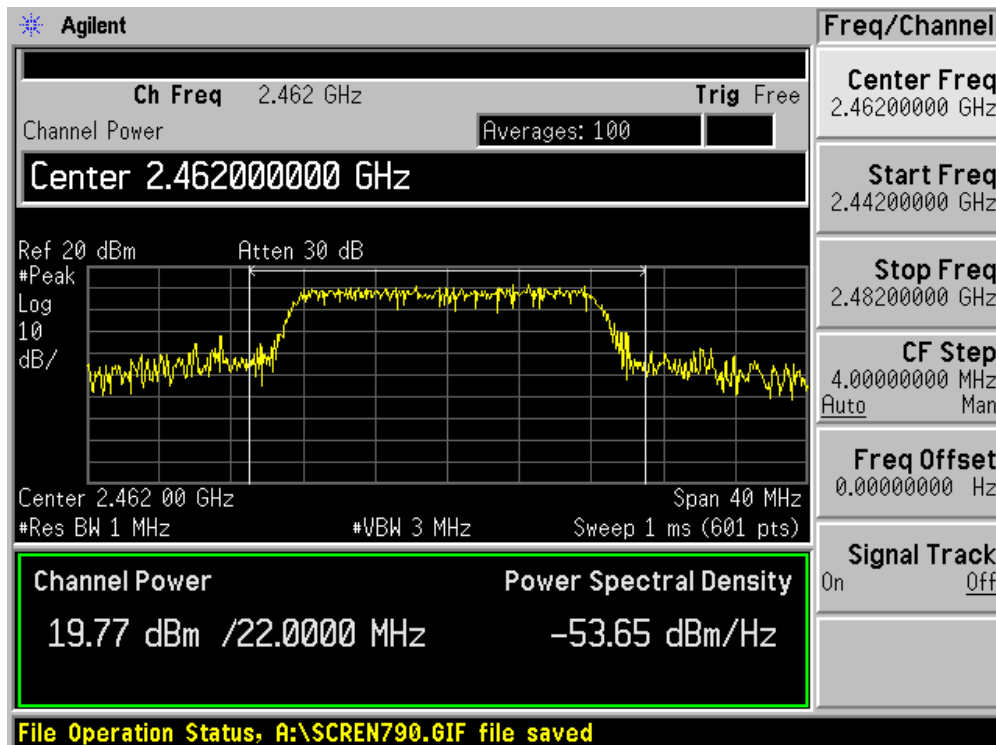
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

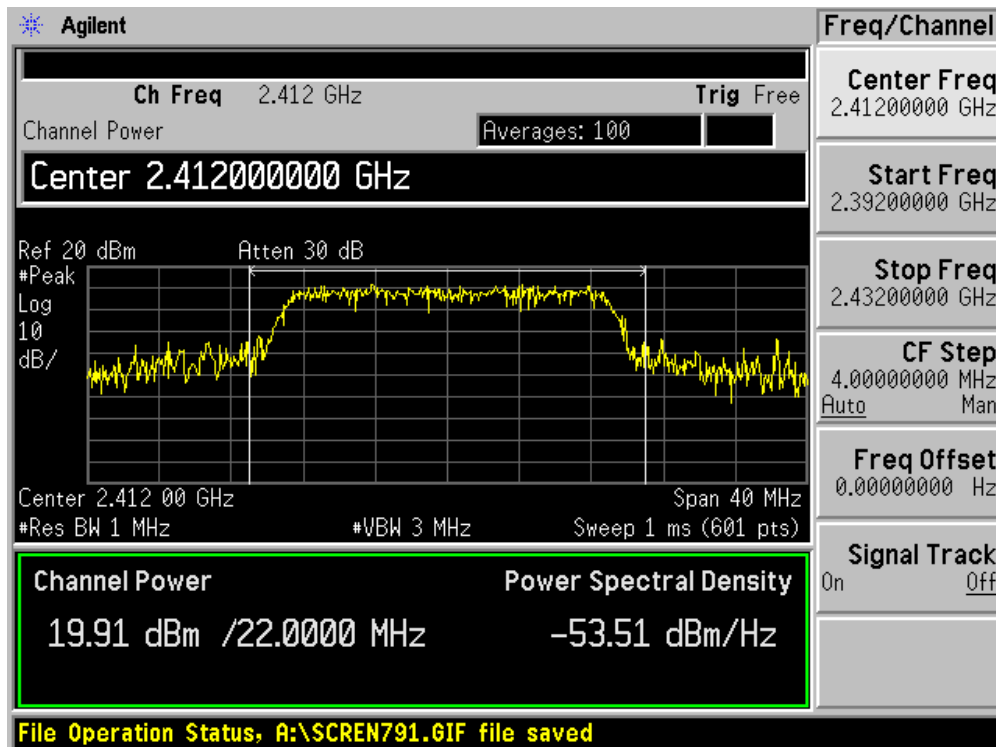


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC0)

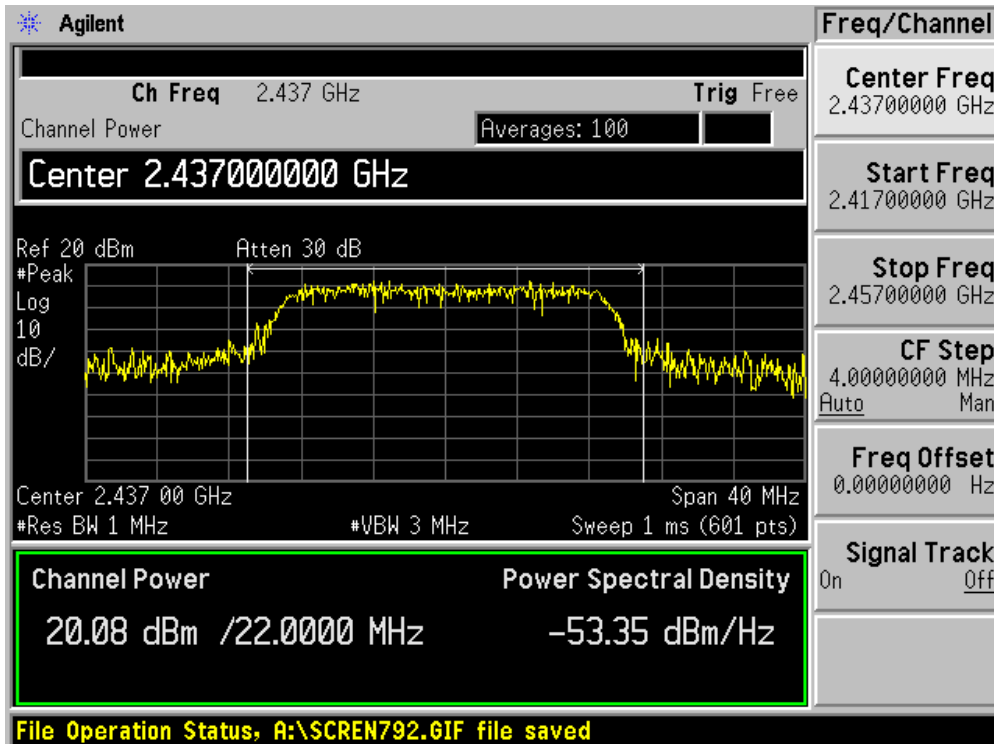
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6.5	13.0	19.5	26.0	39.0	52.0	58.5	65.0	
01	2412	19.91	--	--	--	--	--	--	--	30
06	2437	20.08	20.06	20.03	20.01	19.99	19.95	19.93	19.90	30
11	2462	19.88	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

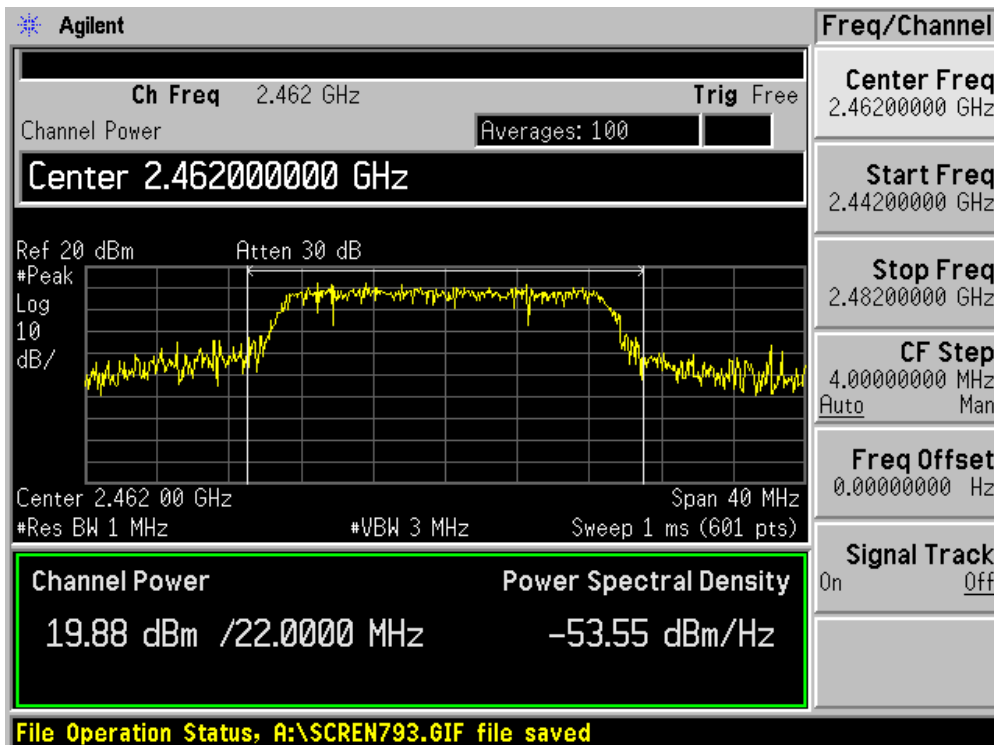
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

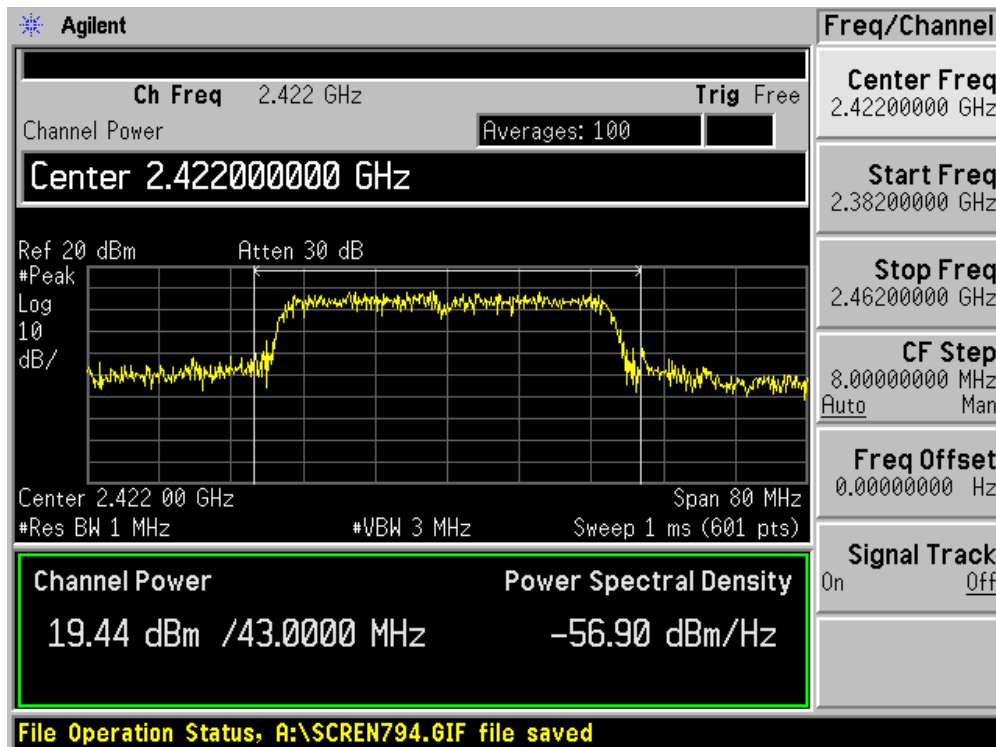


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC0)

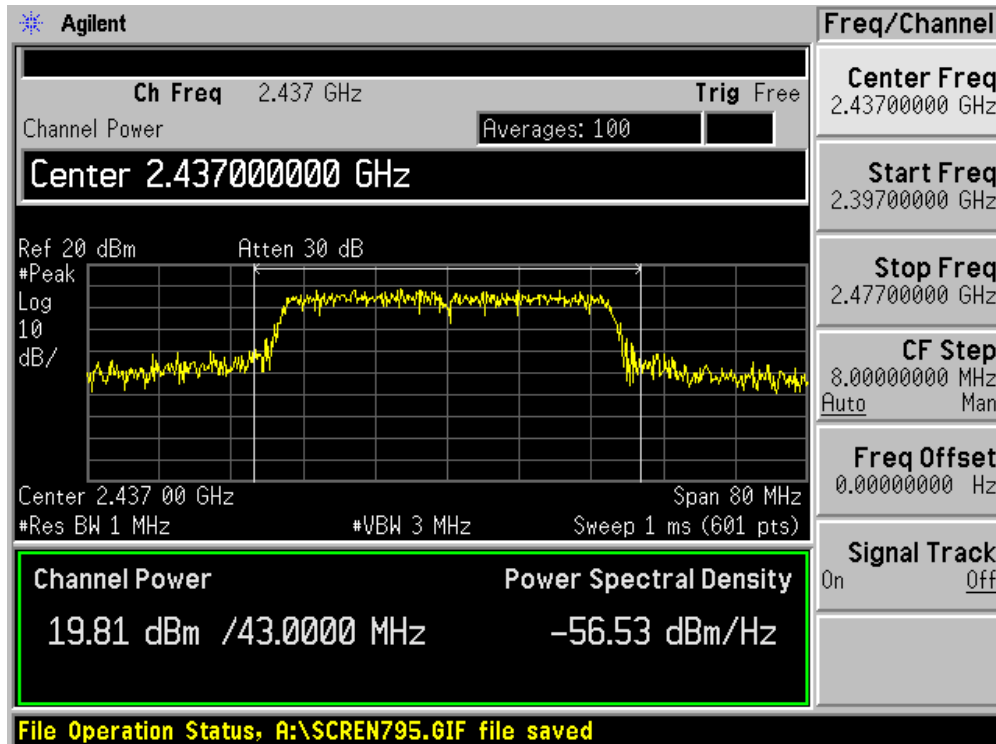
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		13.5	27.0	40.5	54.0	81.0	108.0	121.5	135.0	
03	2422	19.44	--	--	--	--	--	--	--	30
06	2437	19.81	19.80	19.77	19.75	19.72	19.70	19.67	19.64	30
09	2452	19.52	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

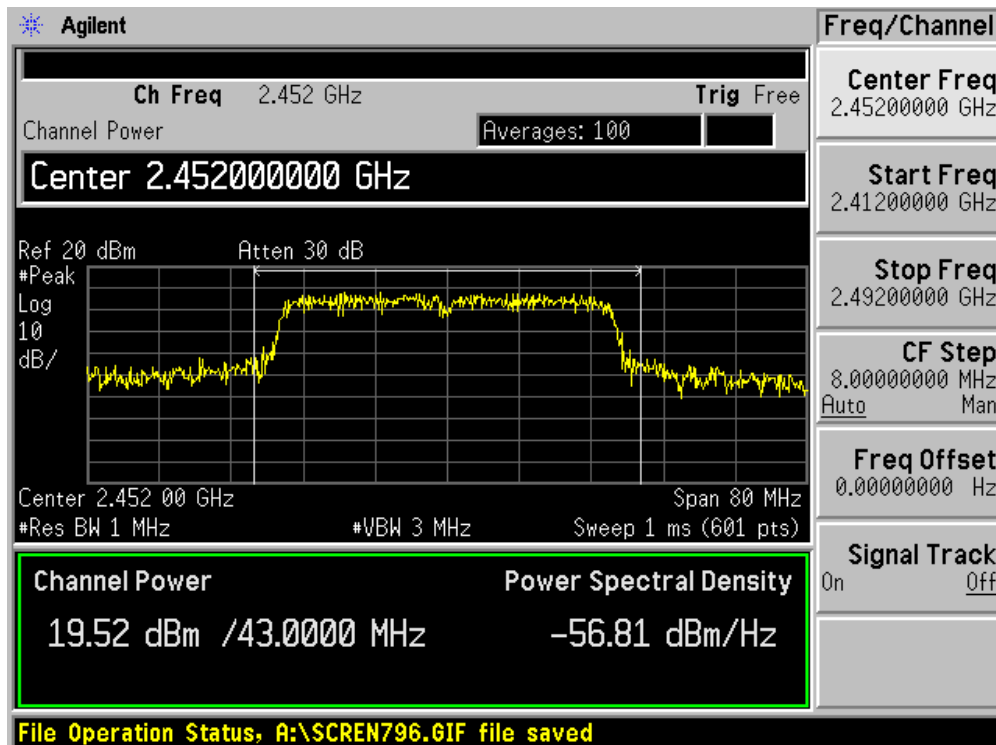
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

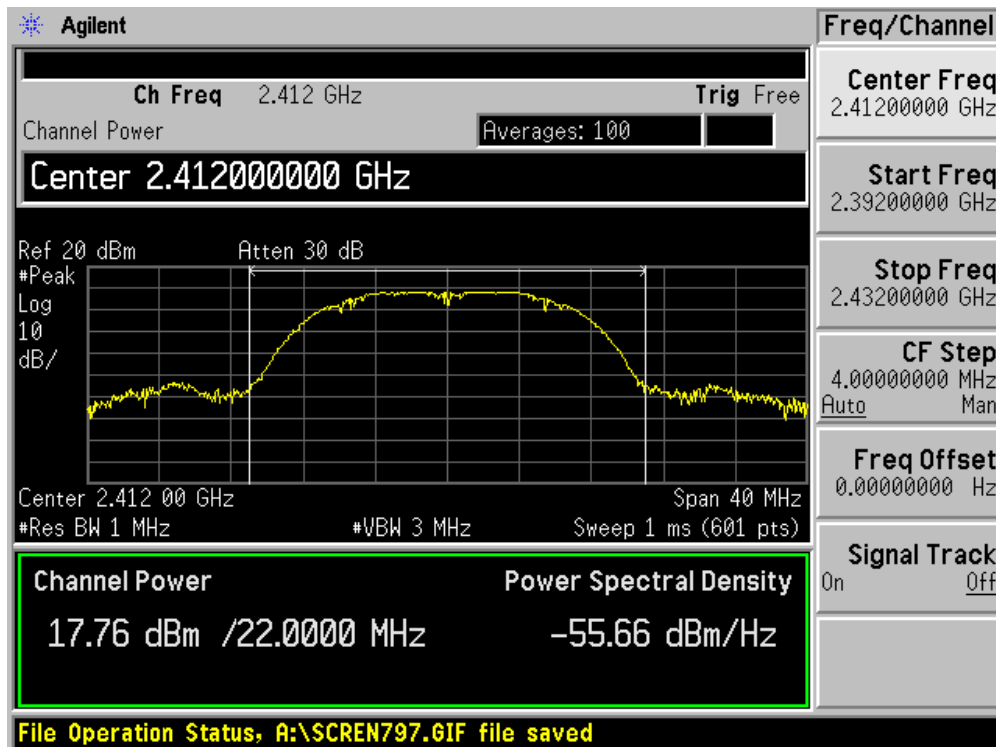


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC1)

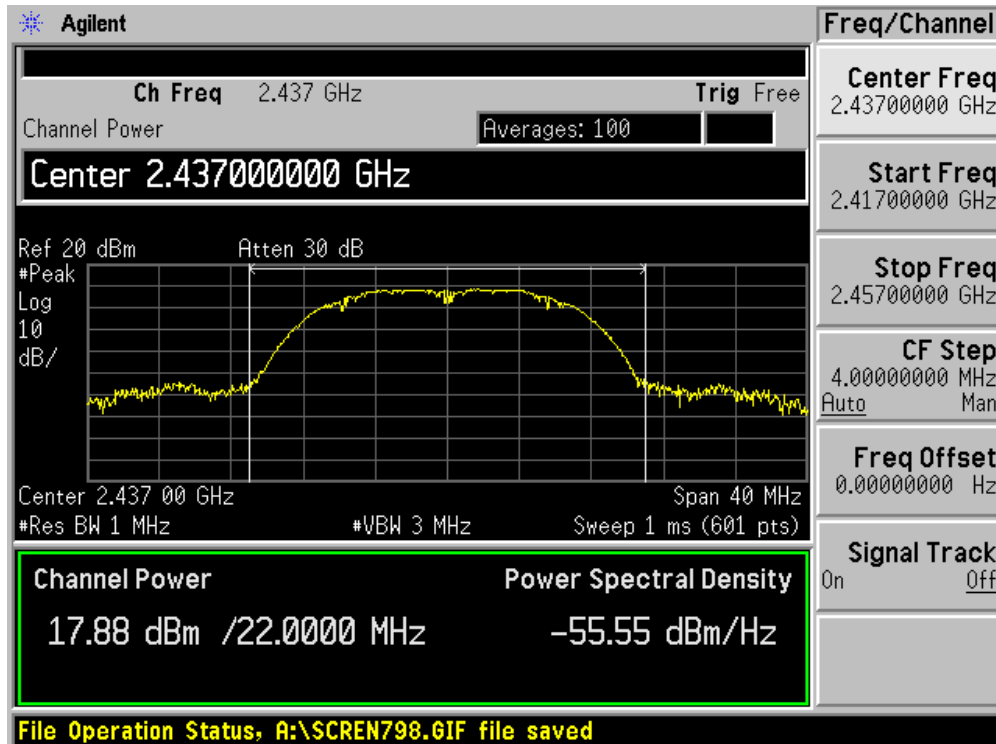
Channel No.	Frequency (MHz)	Data Rate (Mbps)				Limit (dBm)
		1	2	5.5	11	
01	2412	17.76	--	--	--	30
06	2437	17.88	17.83	17.80	17.77	30
11	2462	18.26	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

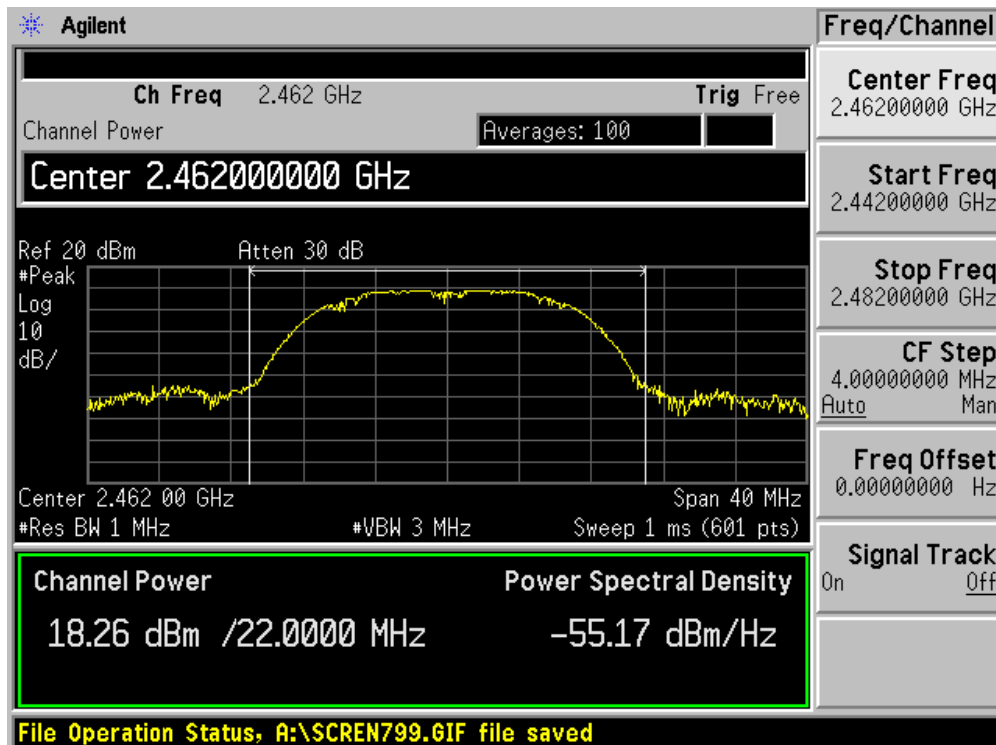
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

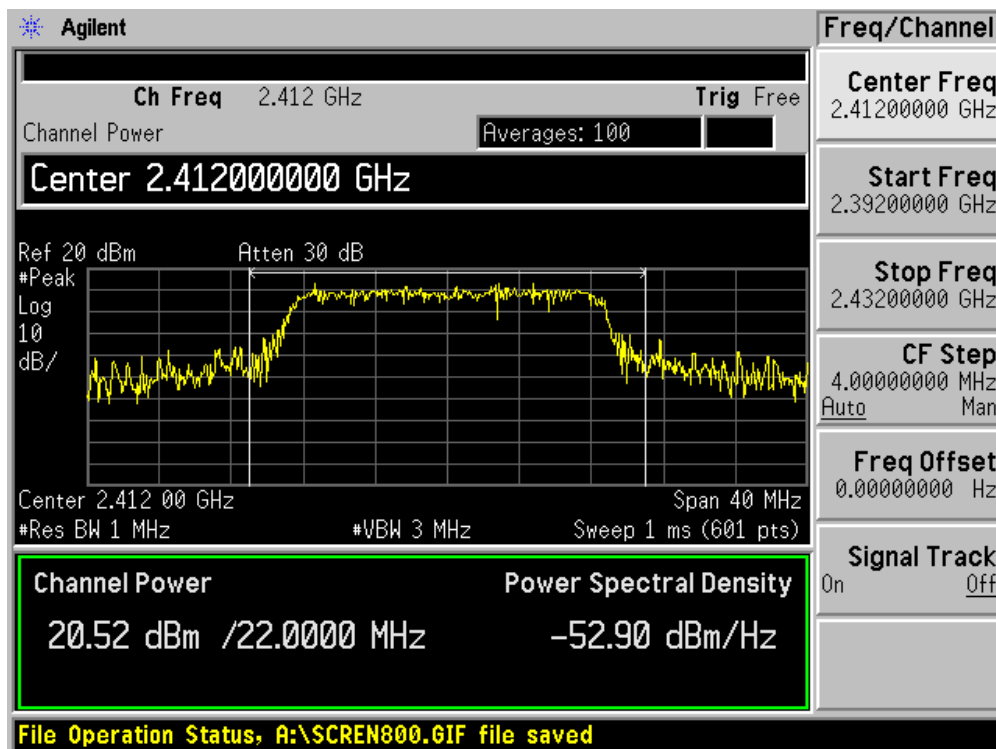


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC1)

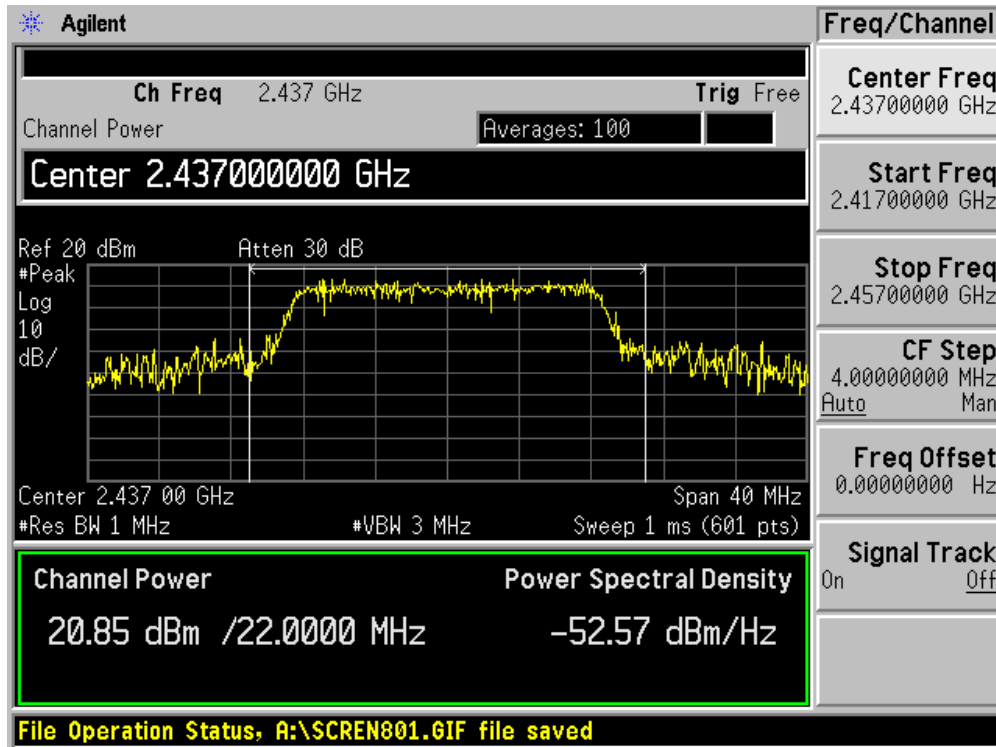
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6	9	12	18	24	36	48	54	
01	2412	20.52	--	--	--	--	--	--	--	30
06	2437	20.85	20.82	20.80	20.78	20.75	20.72	20.70	20.67	30
11	2462	21.11	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

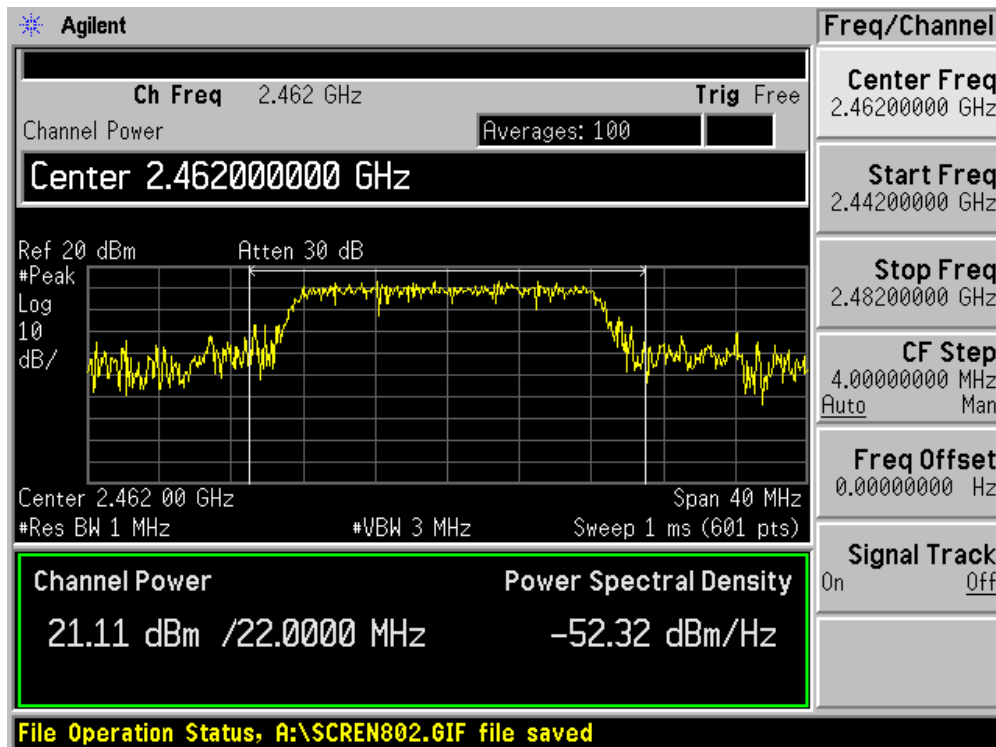
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

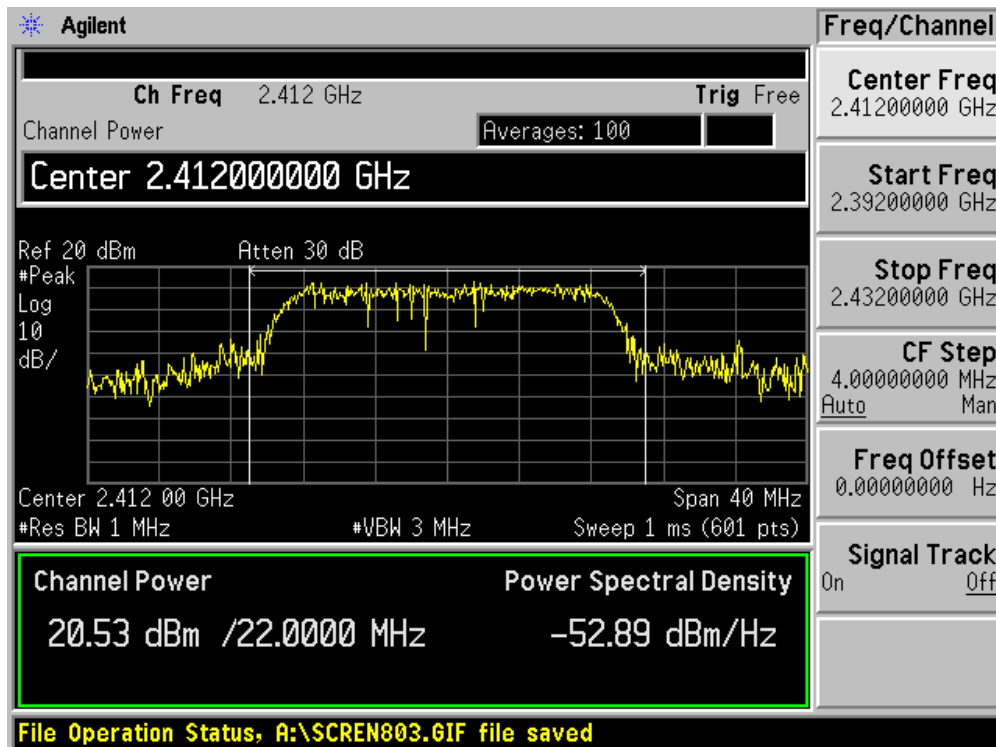


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC1)

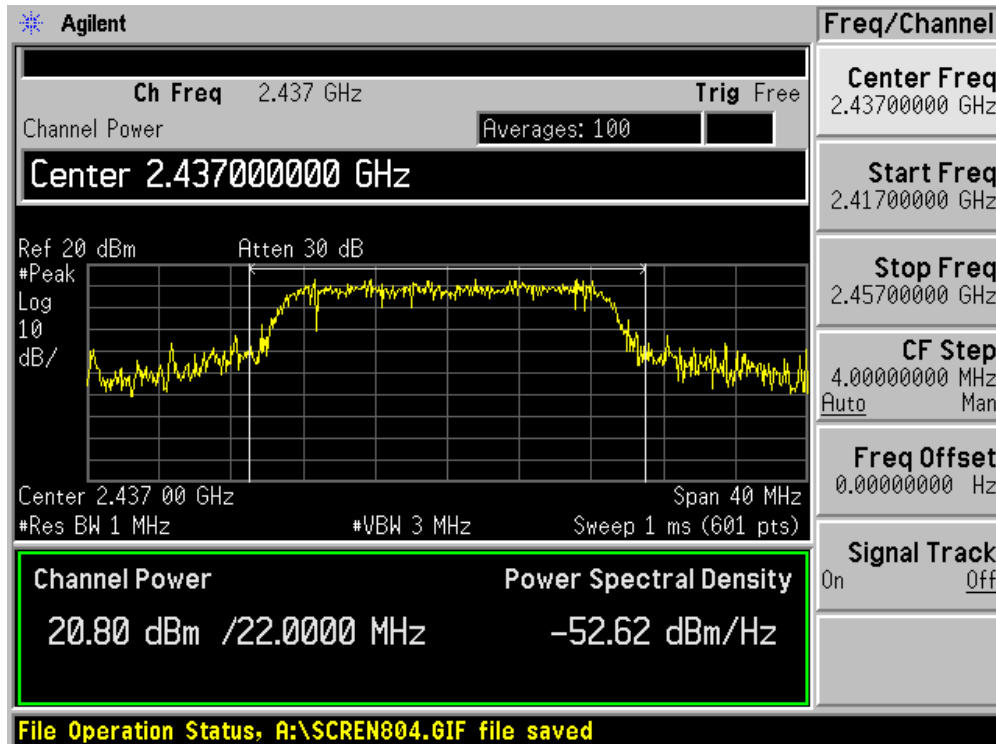
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		6.5	13.0	19.5	26.0	39.0	52.0	58.5	65.0	
01	2412	20.53	--	--	--	--	--	--	--	30
06	2437	20.80	20.77	20.75	20.73	20.70	20.68	20.65	20.62	30
11	2462	21.10	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

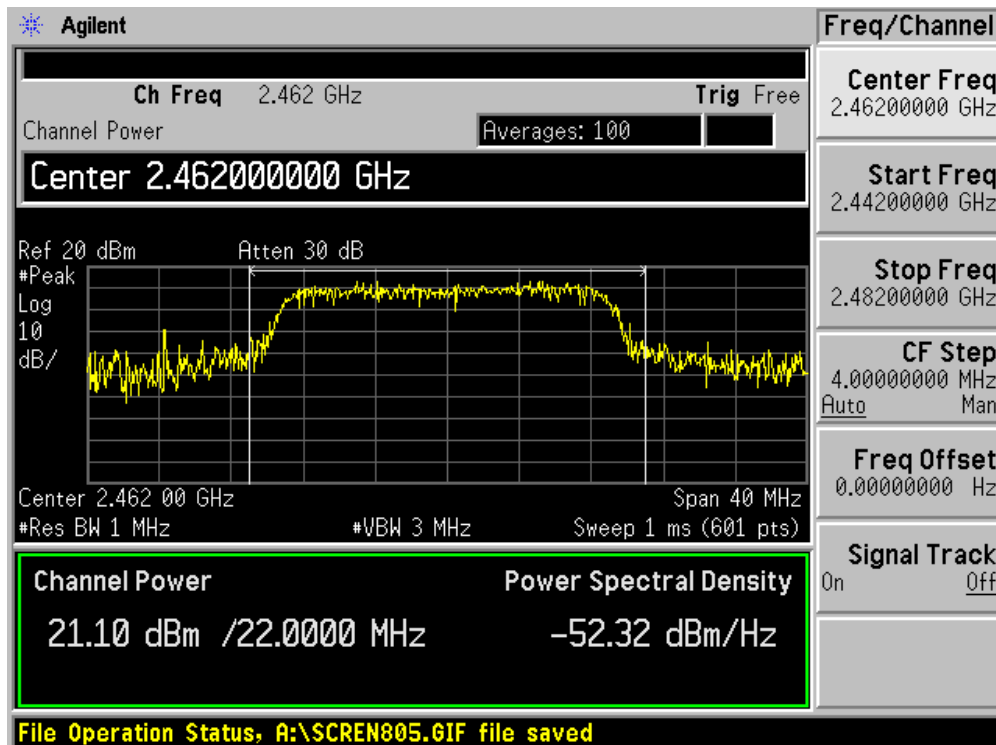
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)

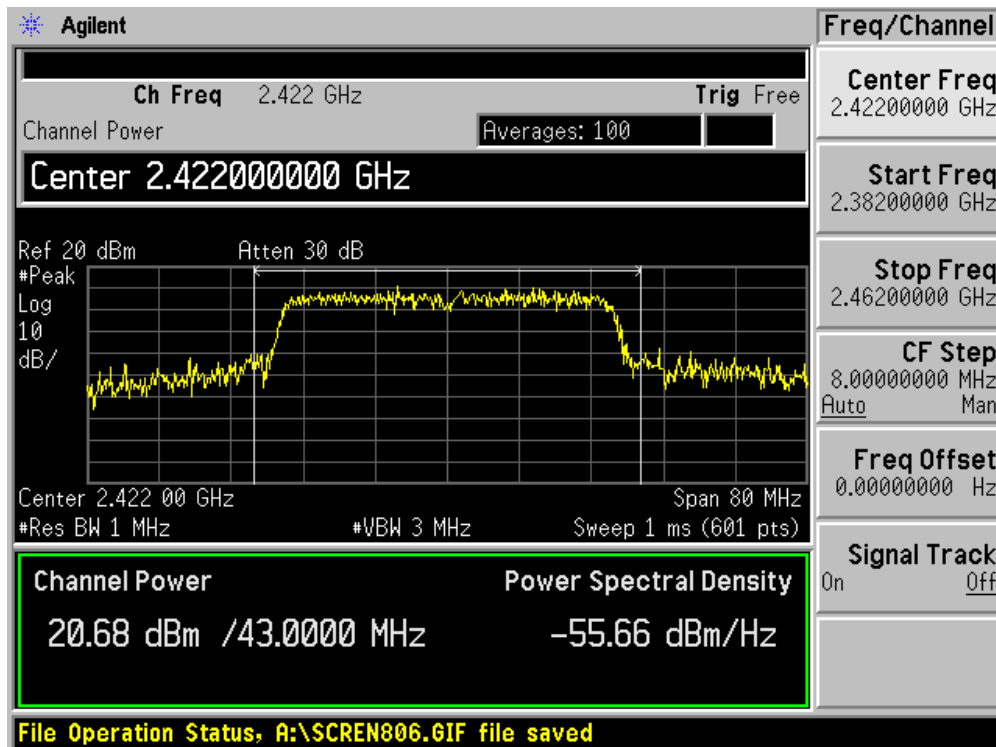


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC1)

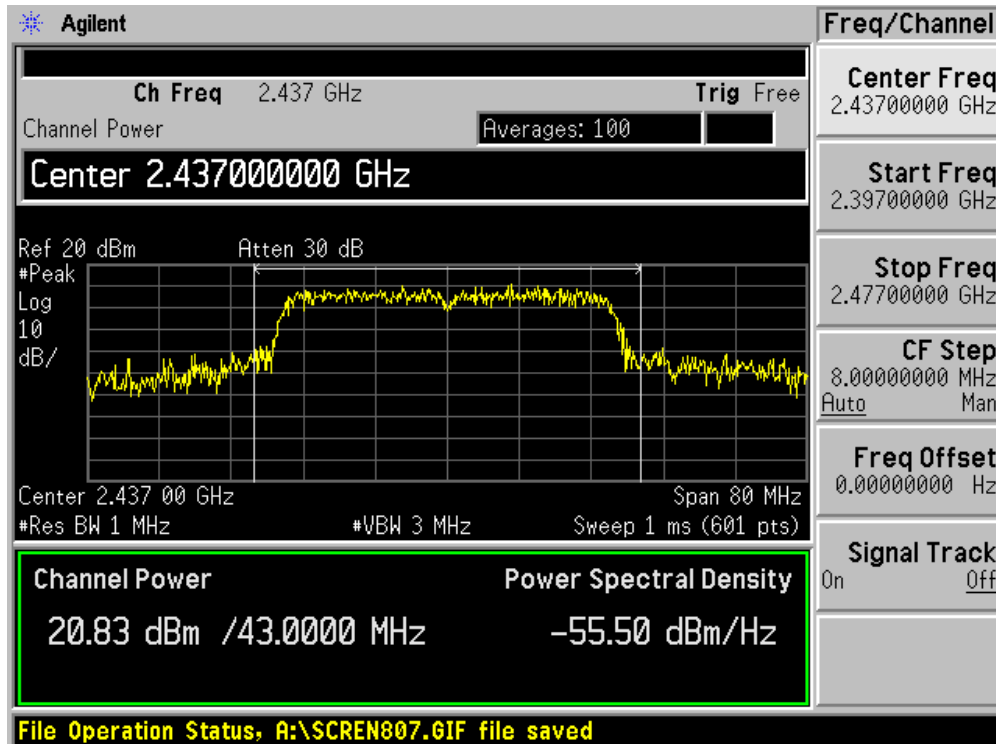
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Limit (dBm)
		13.5	27.0	40.5	54.0	81.0	108.0	121.5	135.0	
03	2422	10.68	--	--	--	--	--	--	--	30
06	2437	20.83	20.81	20.78	20.75	20.72	20.70	20.68	20.65	30
09	2452	21.01	--	--	--	--	--	--	--	30

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

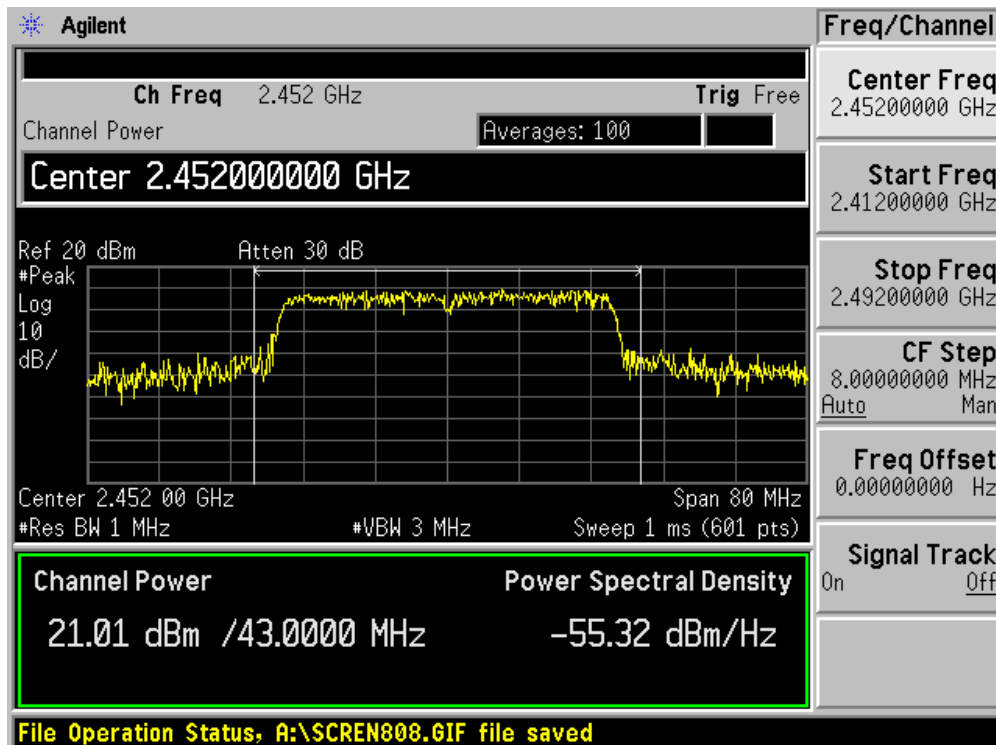
Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

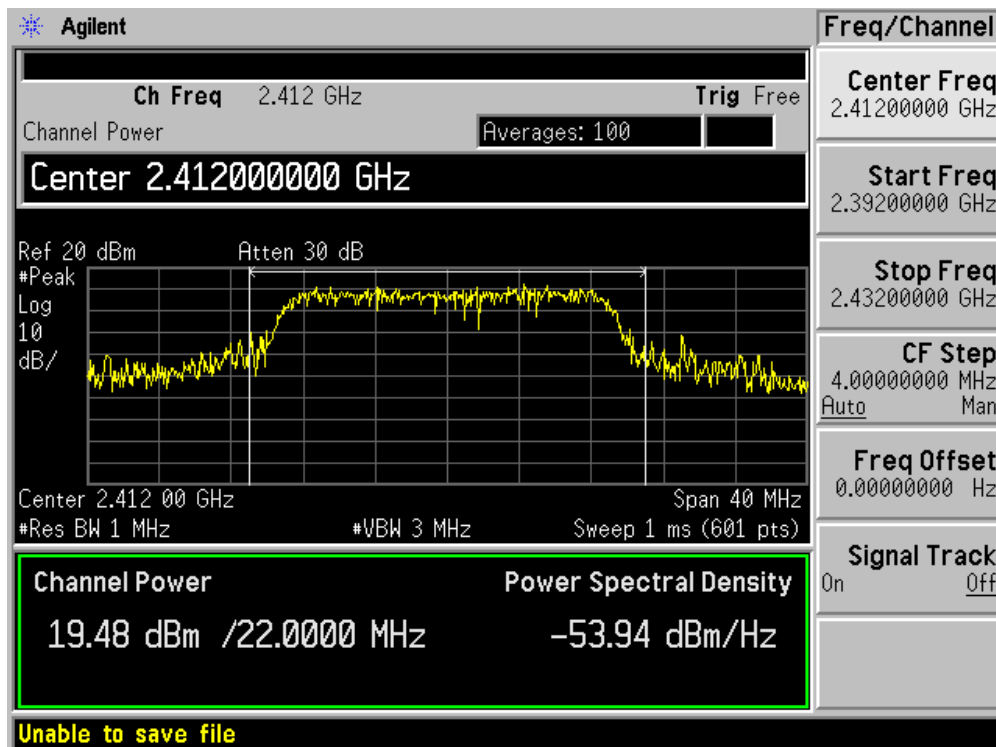


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC0 and DAC1)

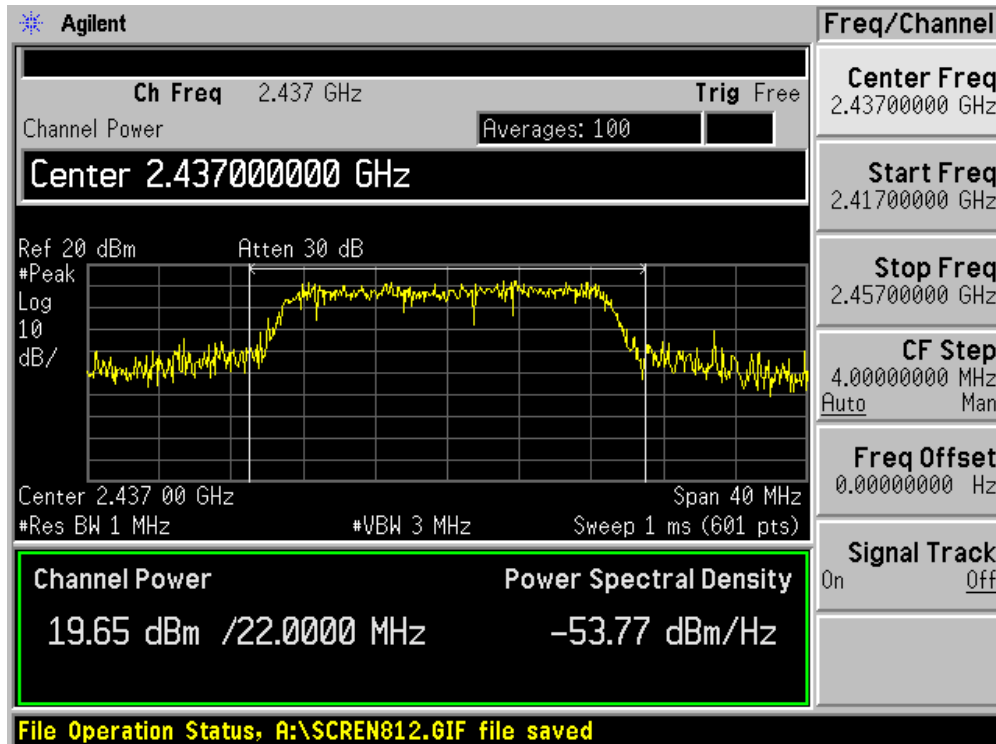
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain DAC0	Chain DAC1			
1	2412	19.48	19.69	22.60	30.00	Pass
6	2437	19.65	19.95	22.81	30.00	Pass
11	2462	20.06	20.56	23.33	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

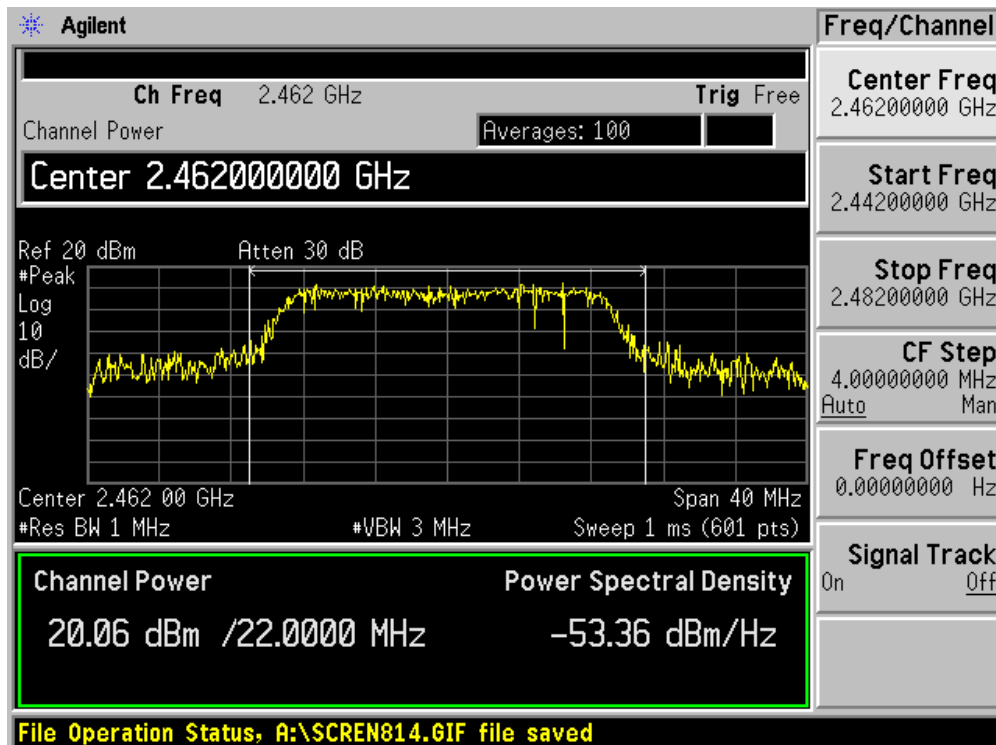
Channel 01 (2412MHz) – Chain DAC0



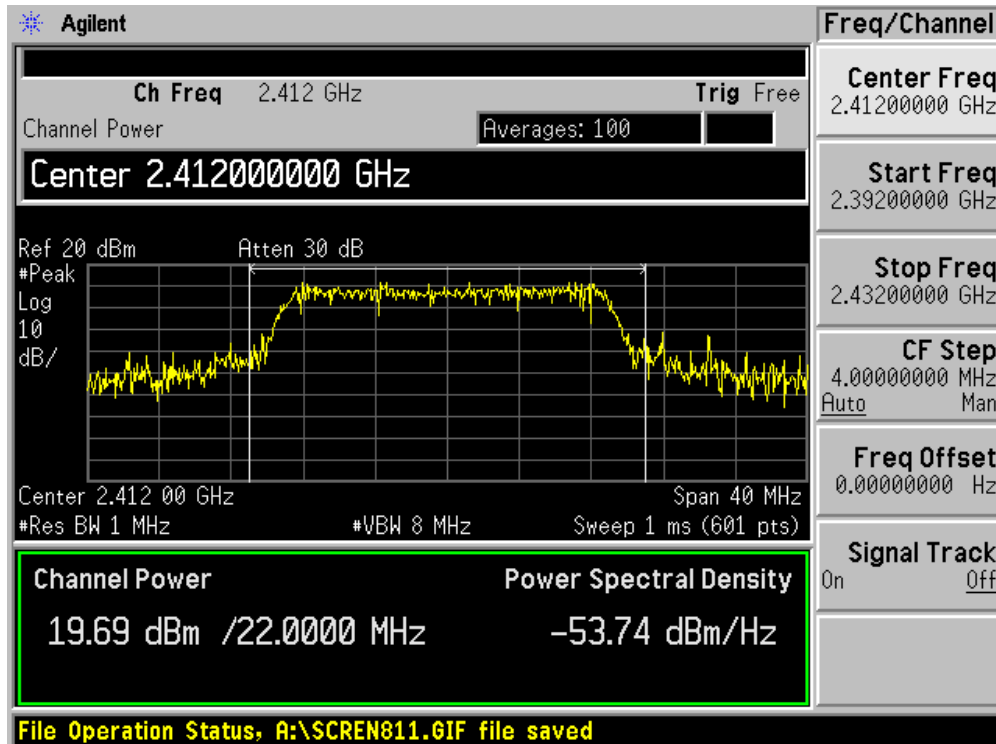
Channel 06 (2437MHz) – Chain DAC0



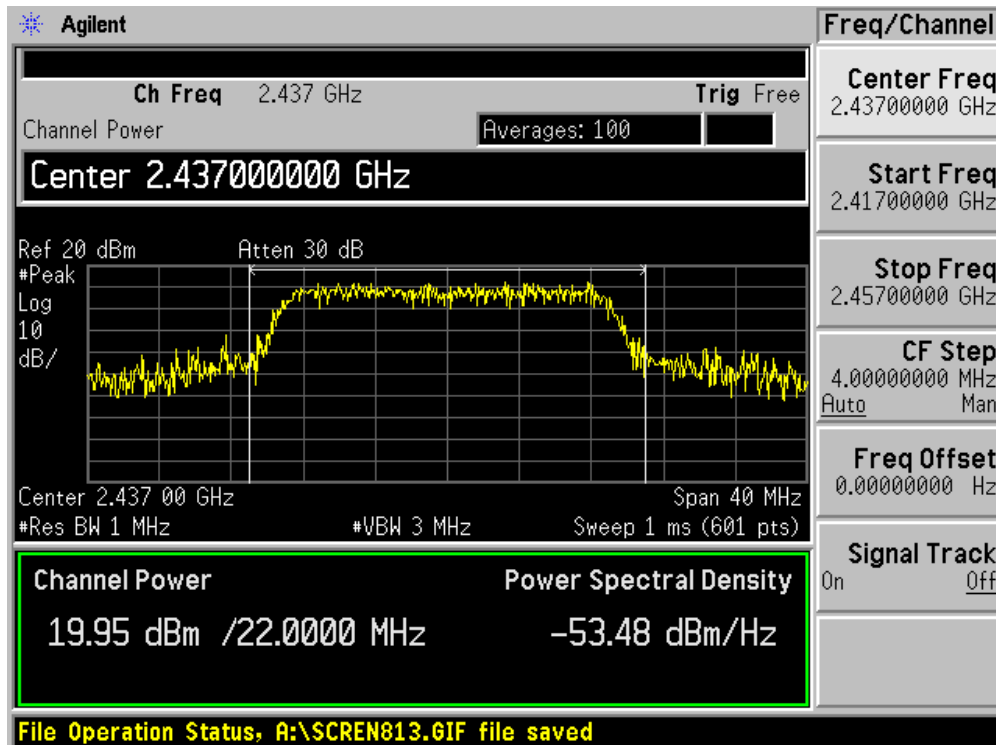
Channel 11 (2462MHz) – Chain DAC0



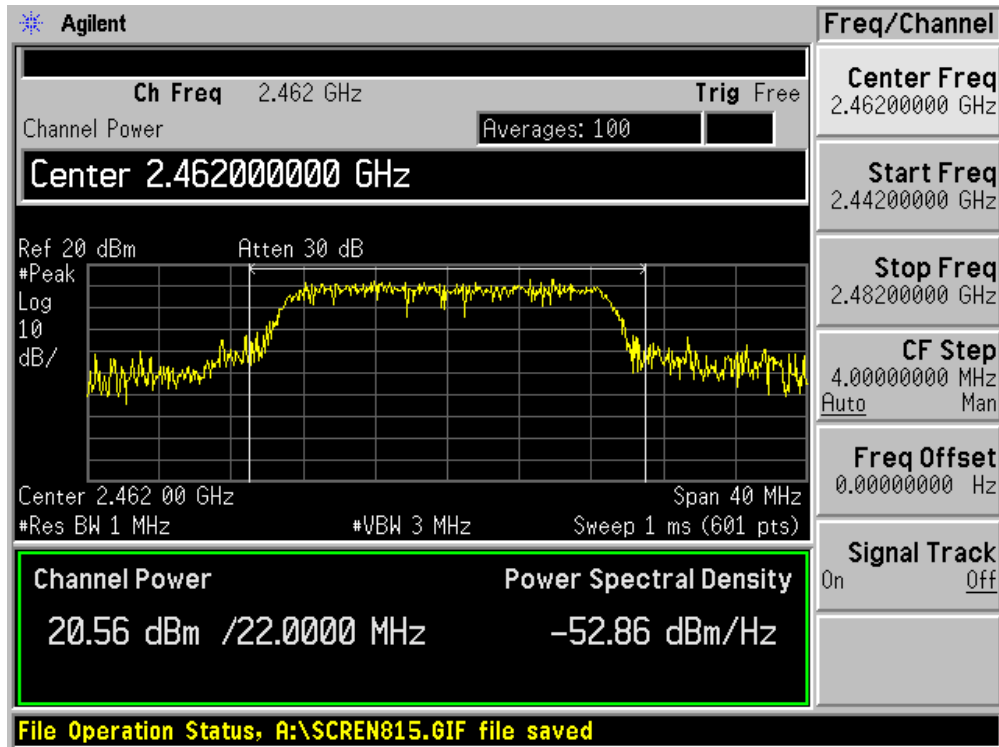
Channel 01 (2412MHz) – Chain DAC1



Channel 06 (2437MHz) – Chain DAC1



Channel 11 (2462MHz) – Chain DAC1

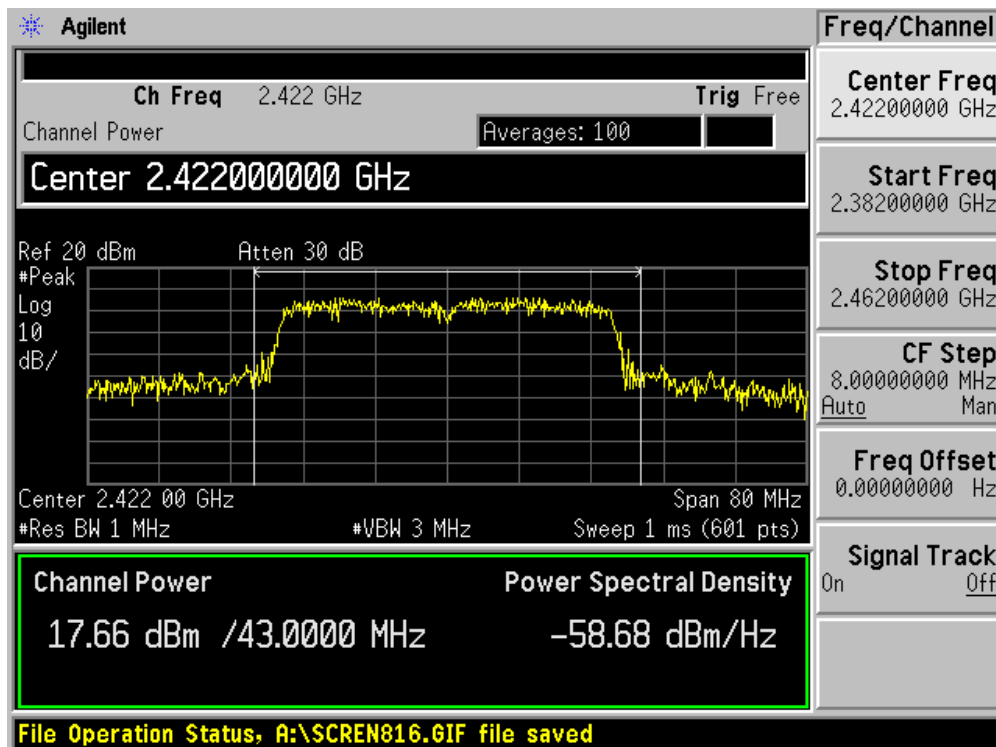


Product	:	802.11n Wireless LAN Module
Test Item	:	Power Output
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (DAC0 and DAC1)

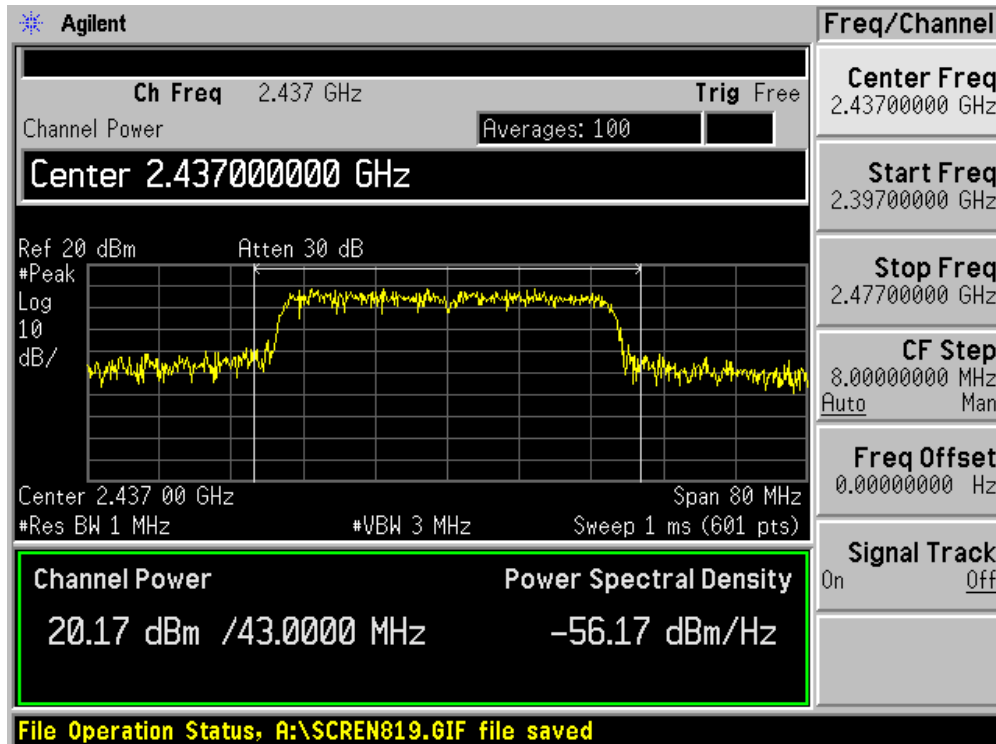
Channel No.	Frequency (MHz)	Measurement Power Output (dBm)		Total Power (dBm)	Limit (dBm)	Result
		Chain DAC0	Chain DAC1			
03	2422	17.66	19.80	21.87	30.00	Pass
06	2437	20.17	20.31	23.25	30.00	Pass
09	2452	19.46	20.36	22.94	30.00	Pass

Note: The antenna gain of transmitter is less than 6 dBi and other than fixed, point-to-point operation, therefore the limit is 30 dBm.

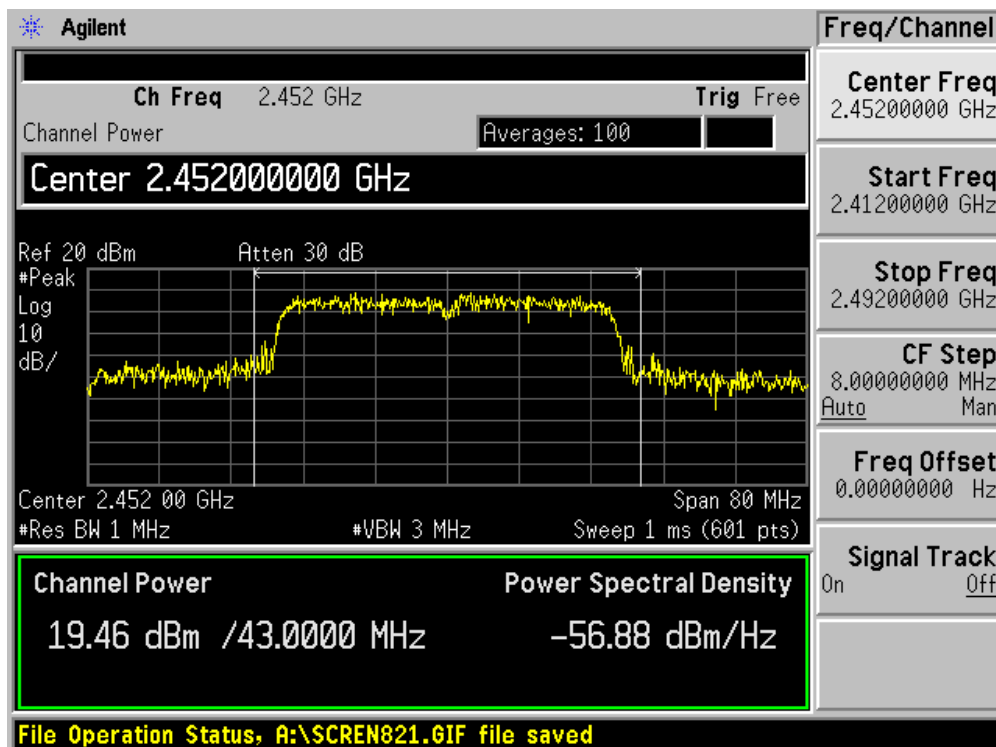
Channel 03 (2422MHz) – Chain DAC0



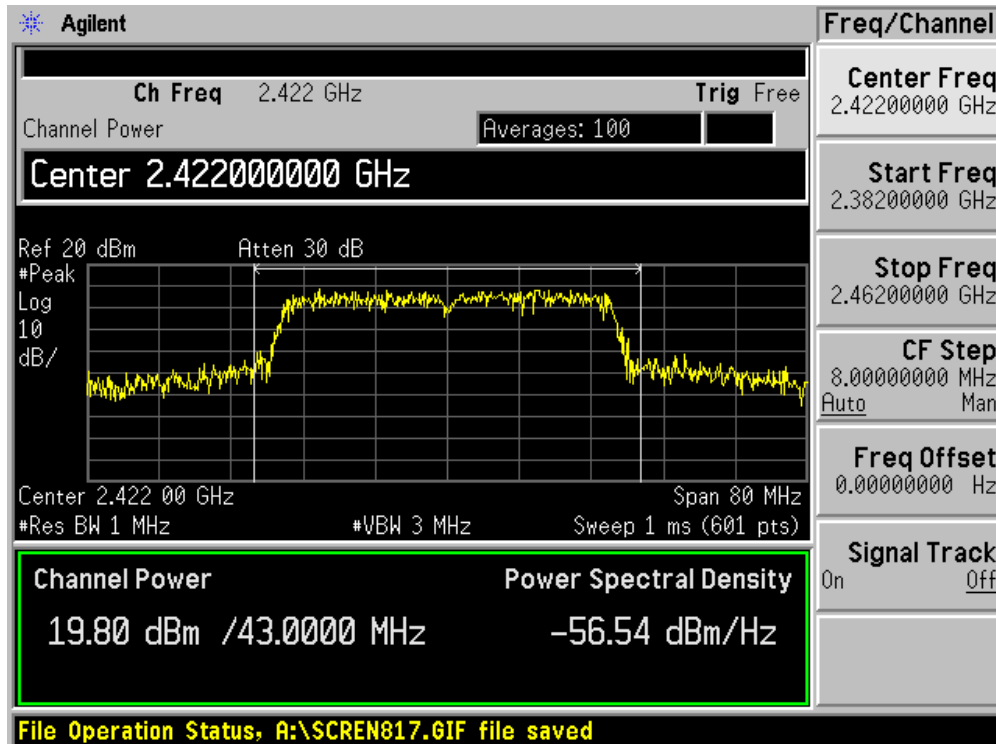
Channel 06 (2437MHz) – Chain DAC0



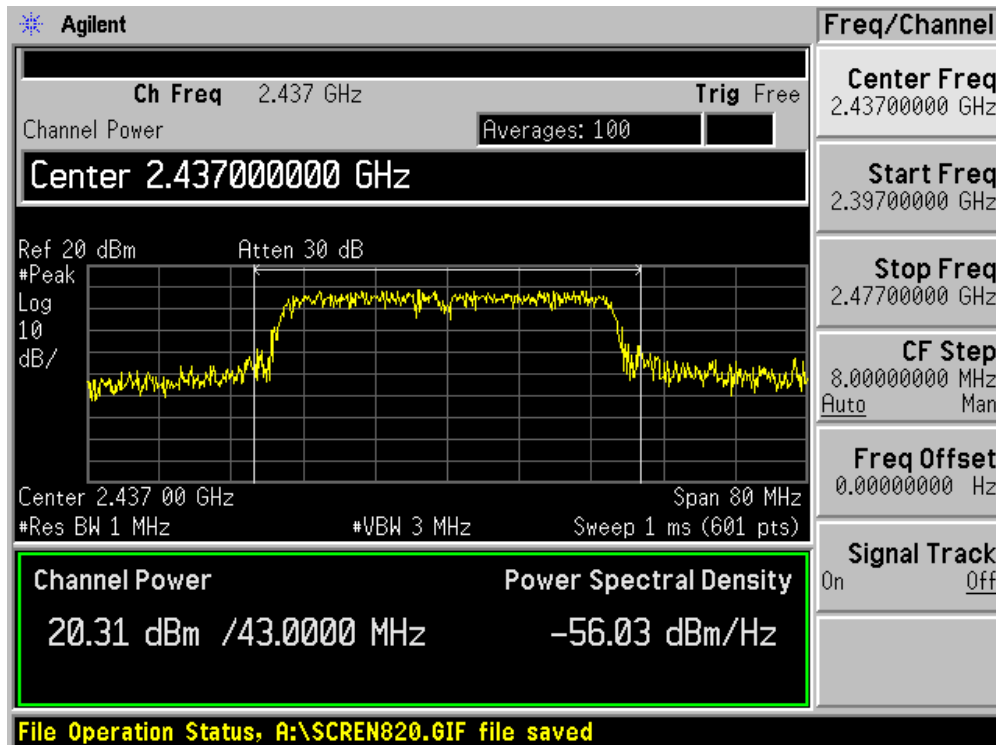
Channel 09 (2452MHz) – Chain DAC0



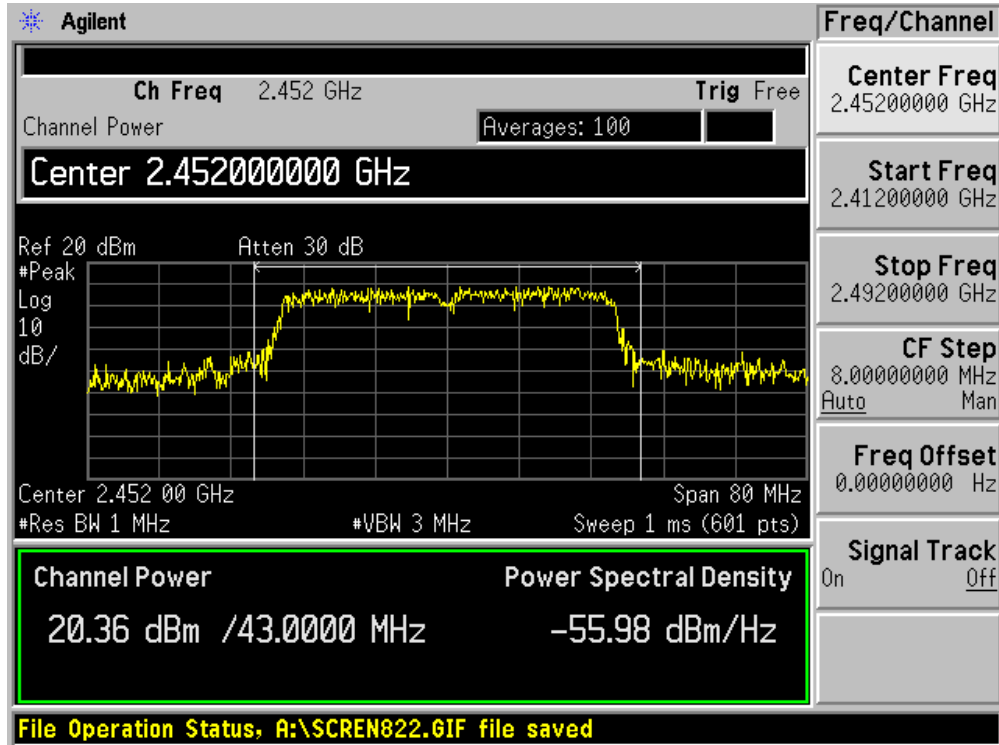
Channel 03 (2422MHz) – Chain DAC1



Channel 06 (2437MHz) – Chain DAC1



Channel 09 (2452MHz) – Chain DAC1



10. Power Spectral Density

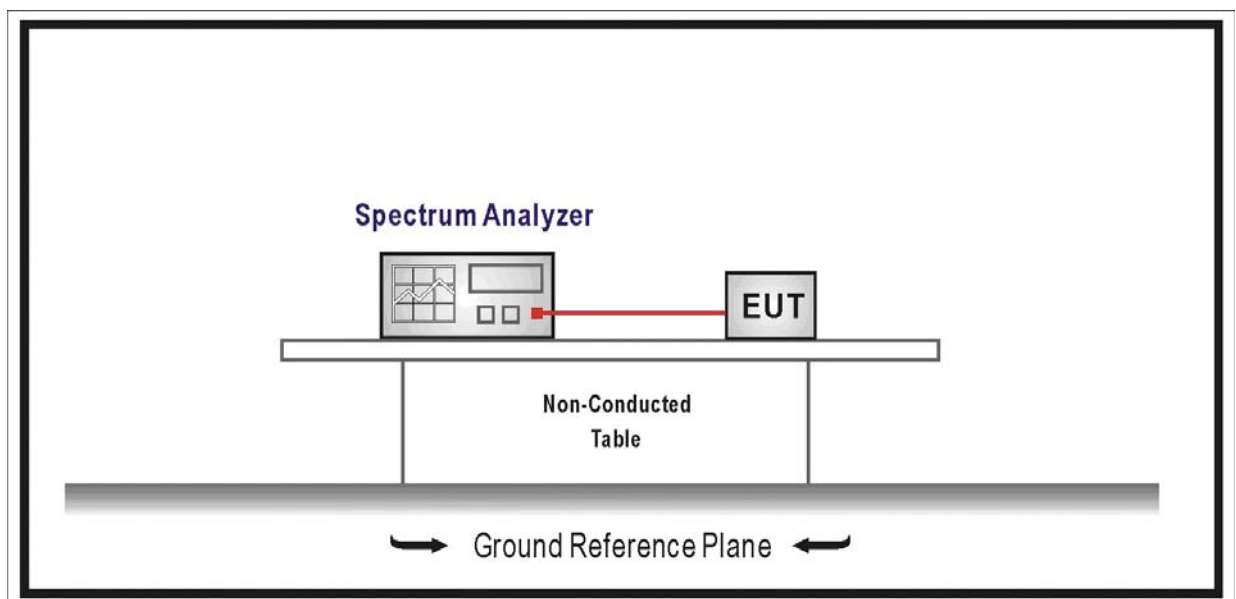
10.1. Test Equipment

Power Spectral Density / AC-4

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date
Spectrum Analyzer	Agilent	E4446A	MY45300103	2008/06/11
Coaxial Cable	Huber+Suhner	AC4-RF	09	2007/11/25
Temperature/Humidity Meter	zhicheng	ZC1-2	QT-TH007	2008/03/09

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

10.2. Test Setup



10.3. Limit

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

10.4. Test Procedure

The EUT was tested according to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, Set VBW \geq 9 kHz, Sweep time=Auto, Set detector=Peak detector.

10.5. Uncertainty

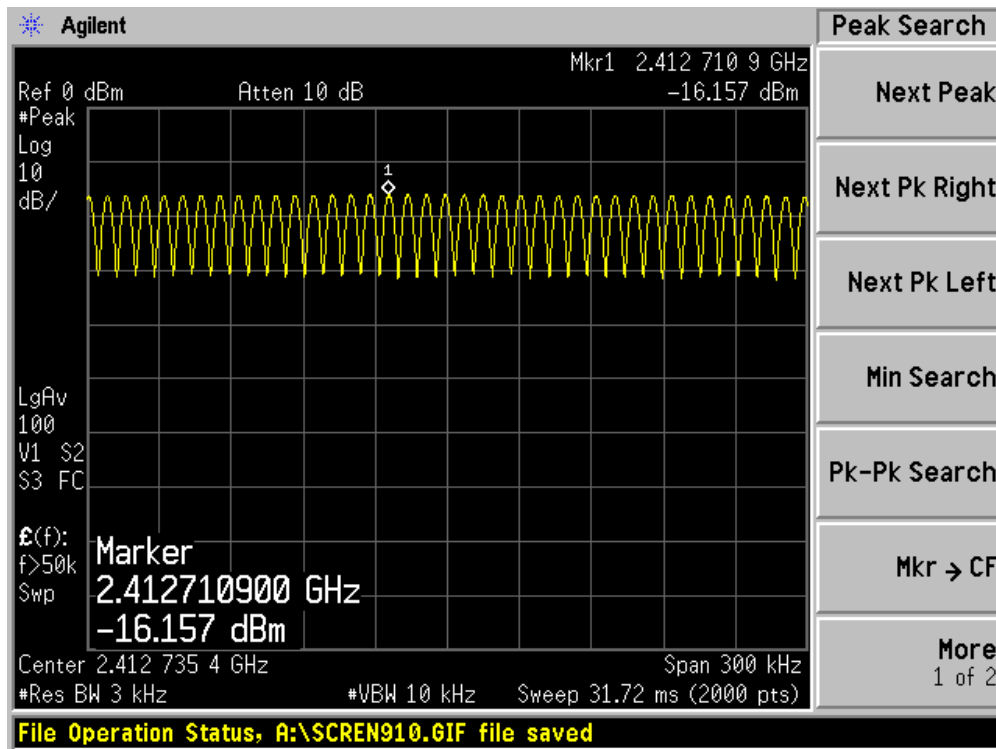
The measurement uncertainty is defined as ± 1.27 dB

10.6. Test Result

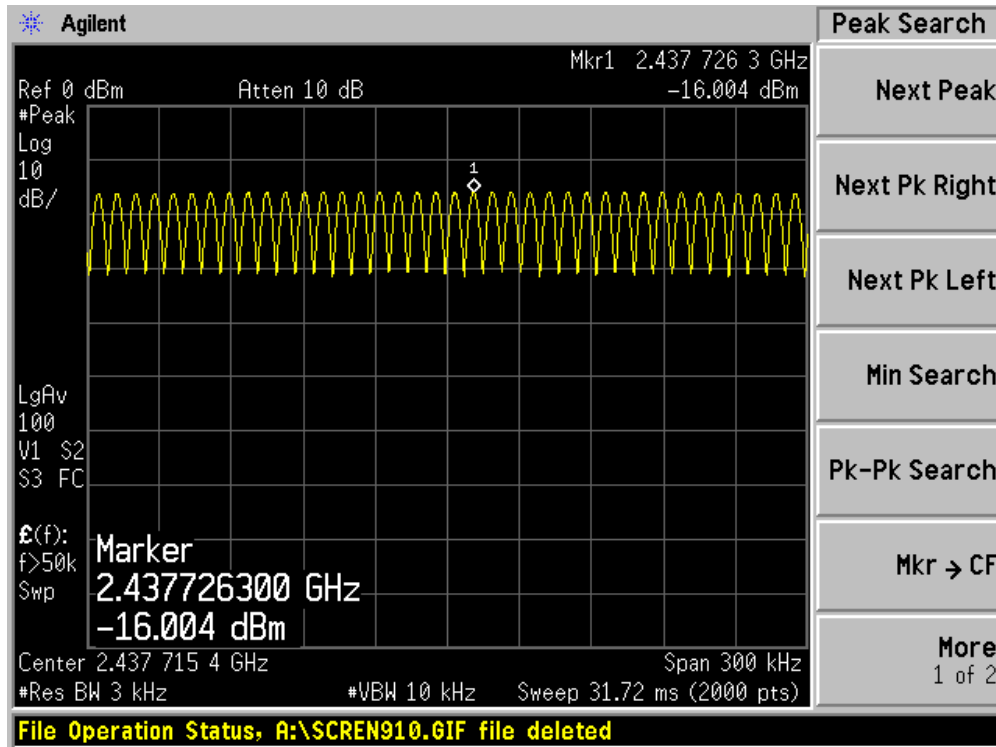
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC0)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-16.157	8	Pass
06	2437	-16.004	8	Pass
11	2462	-16.304	8	Pass

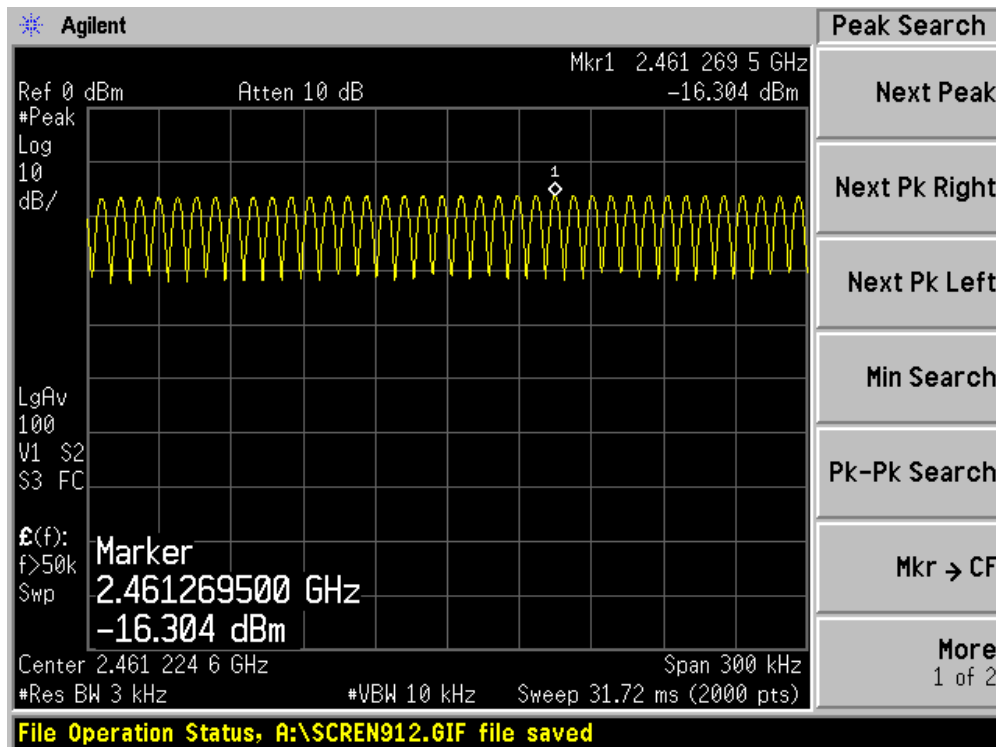
Channel 01 (2412MHz)



Channel 06 (2437MHz)



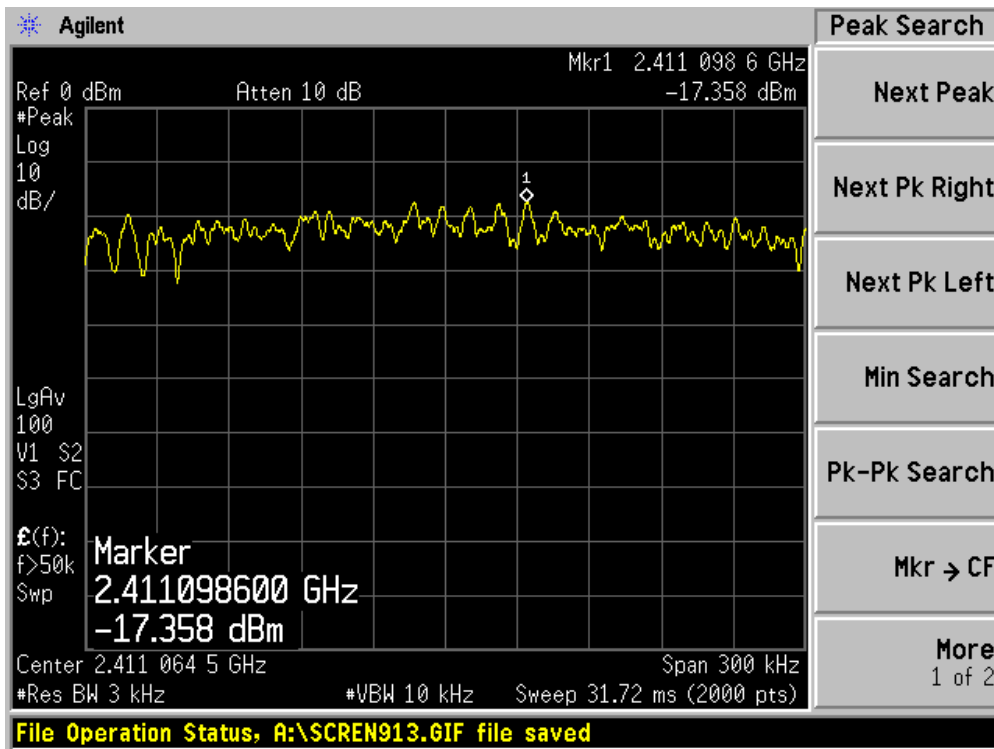
Channel 11 (2462MHz)



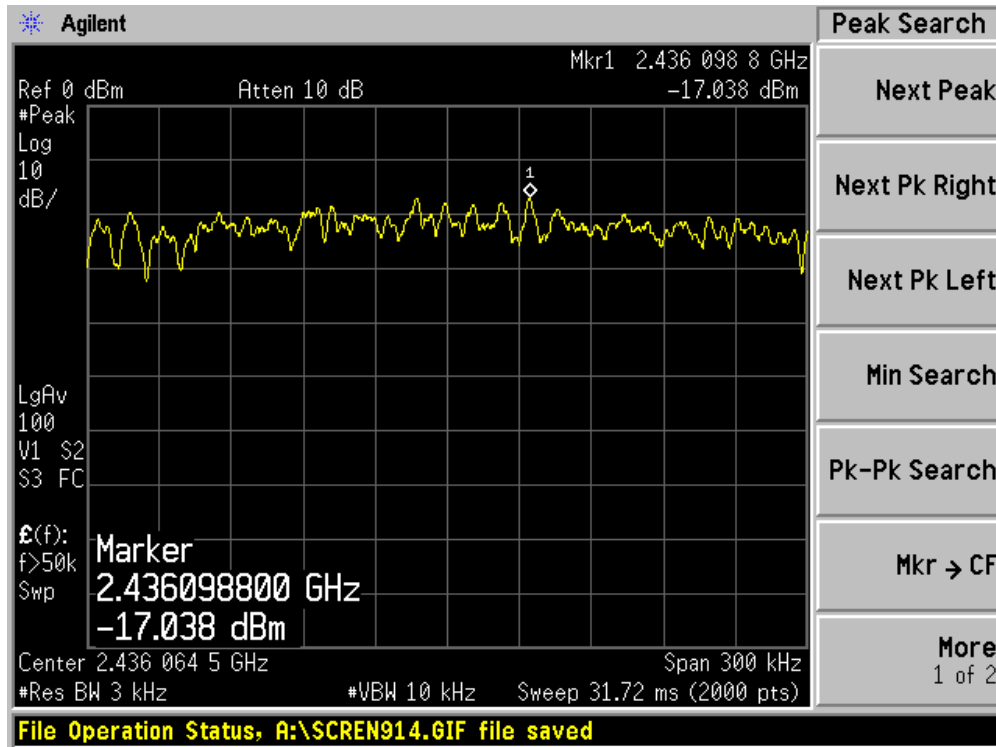
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC0)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-17.358	8	Pass
06	2437	-17.038	8	Pass
11	2462	-17.355	8	Pass

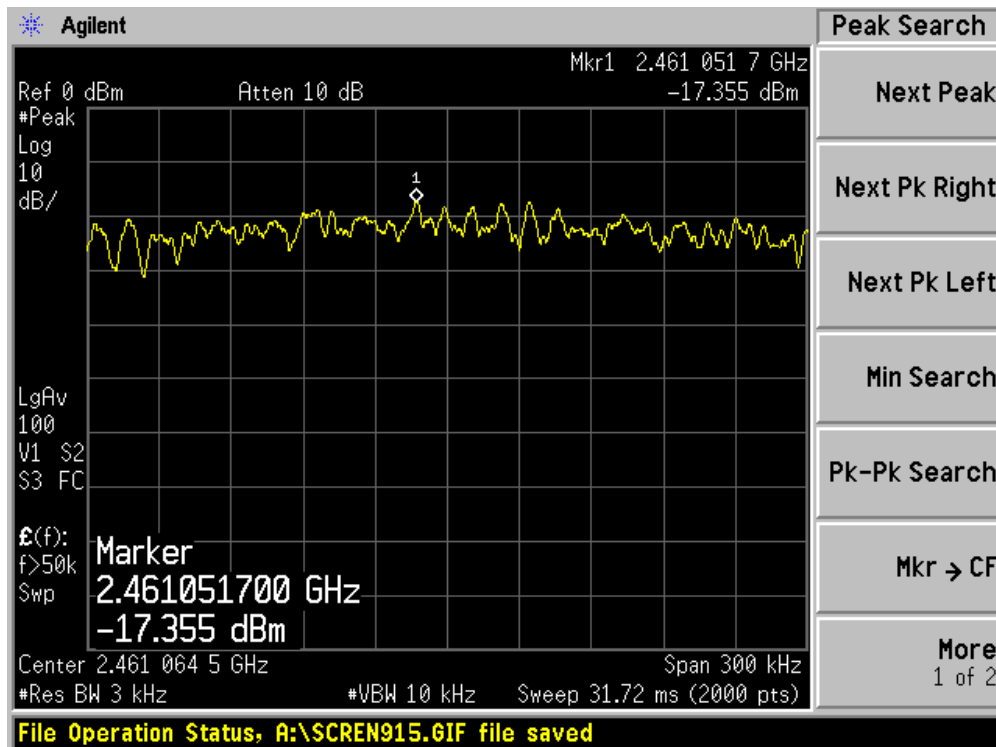
Channel 01 (2412MHz)



Channel 06 (2437MHz)



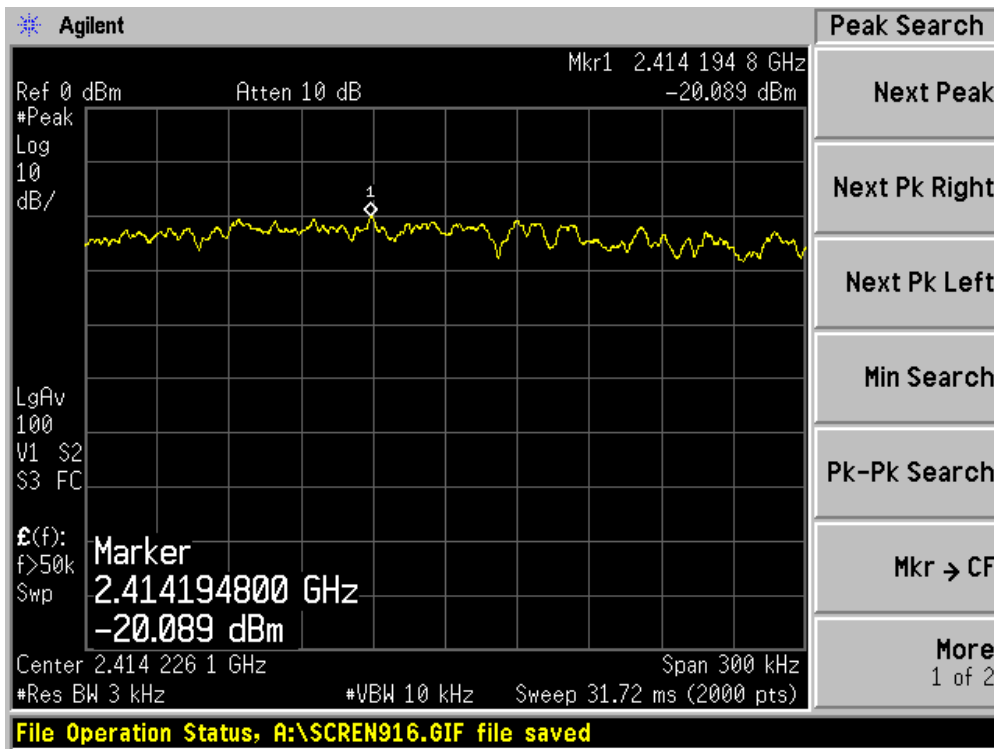
Channel 11 (2462MHz)



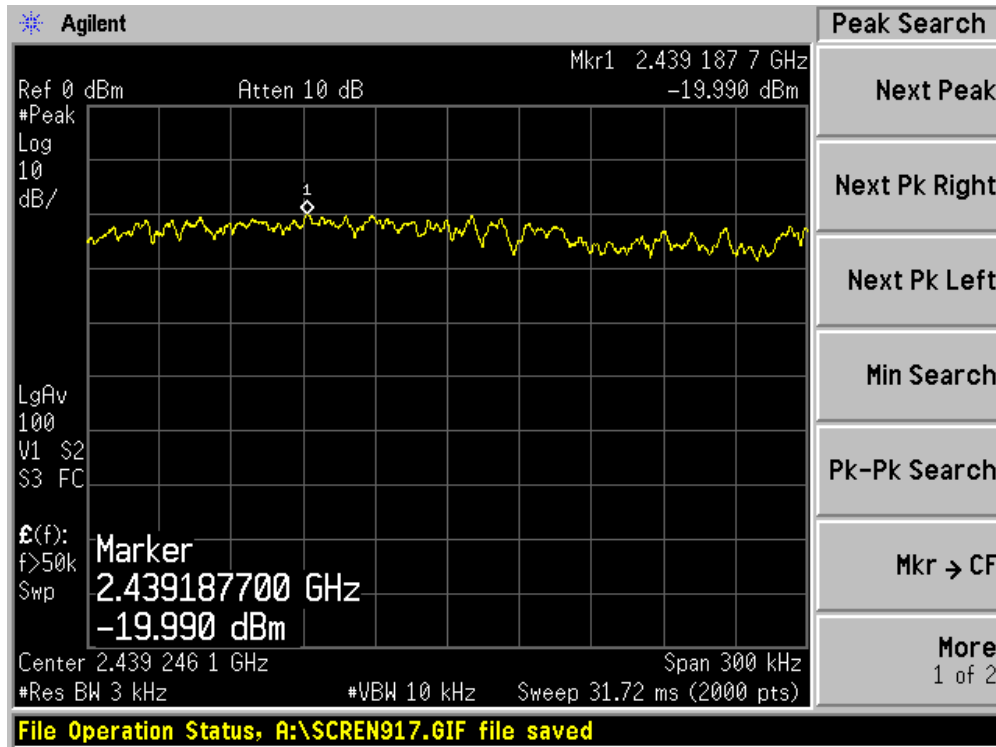
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC0)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-20.089	8	Pass
06	2437	-19.990	8	Pass
11	2462	-20.419	8	Pass

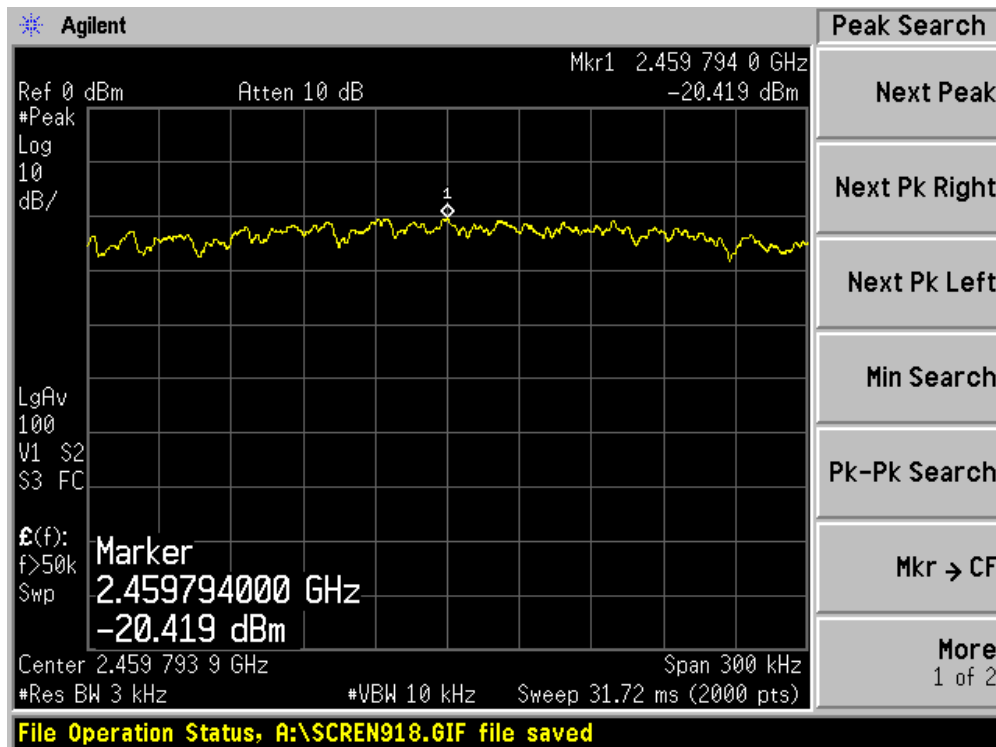
Channel 01 (2412MHz)



Channel 06 (2437MHz)



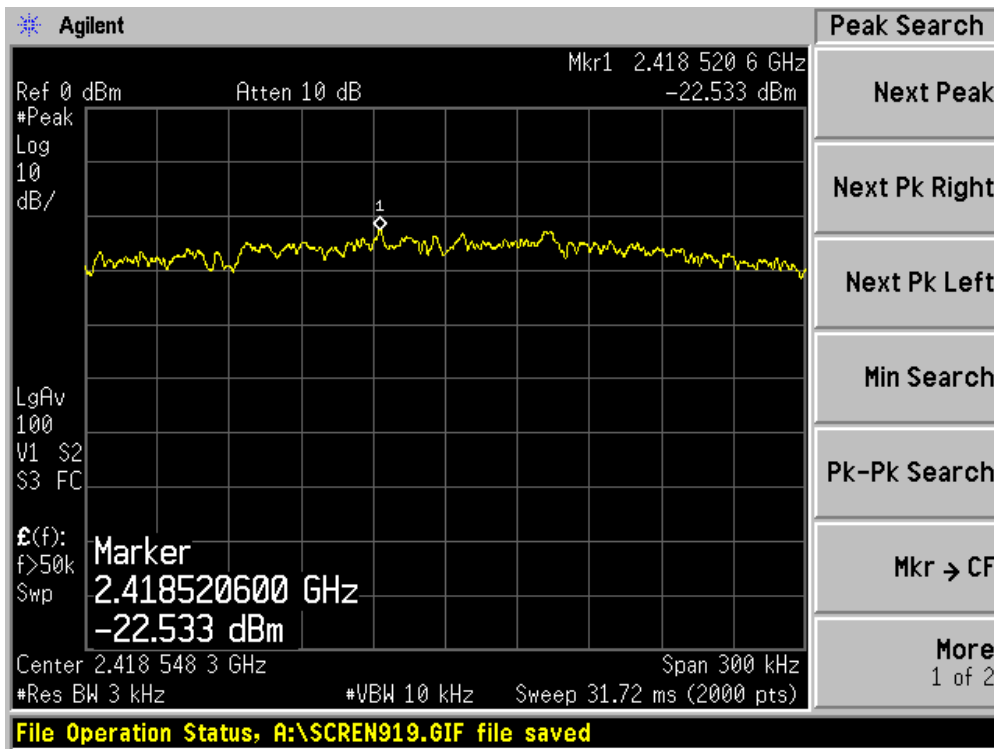
Channel 11 (2462MHz)



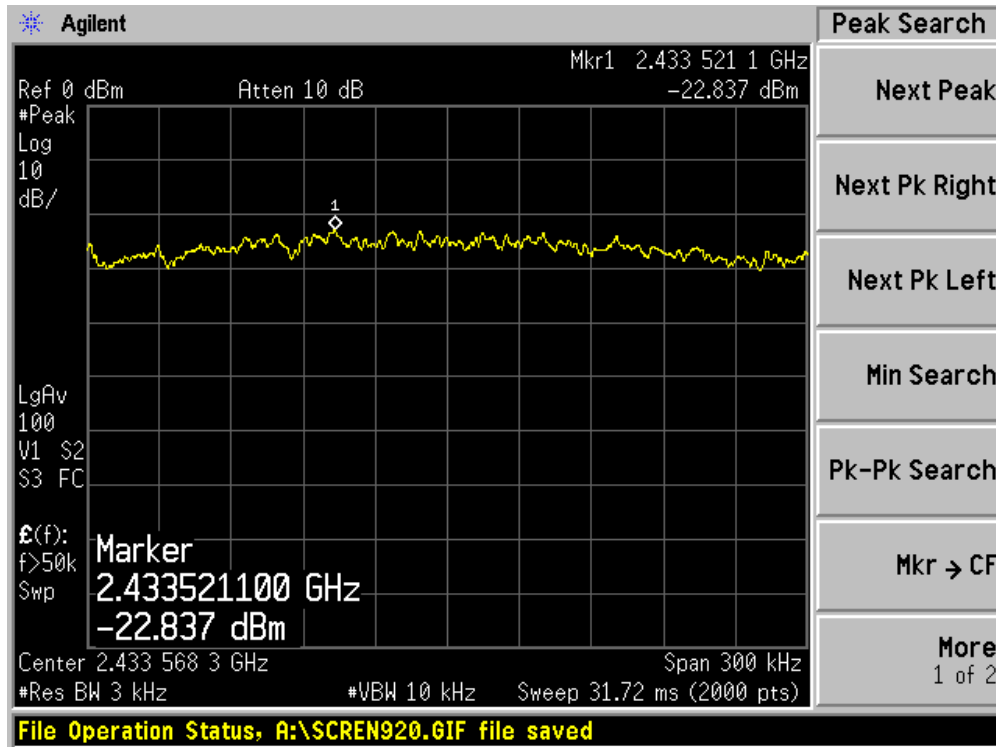
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC0)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2412	-22.533	8	Pass
06	2437	-22.837	8	Pass
09	2462	-22.359	8	Pass

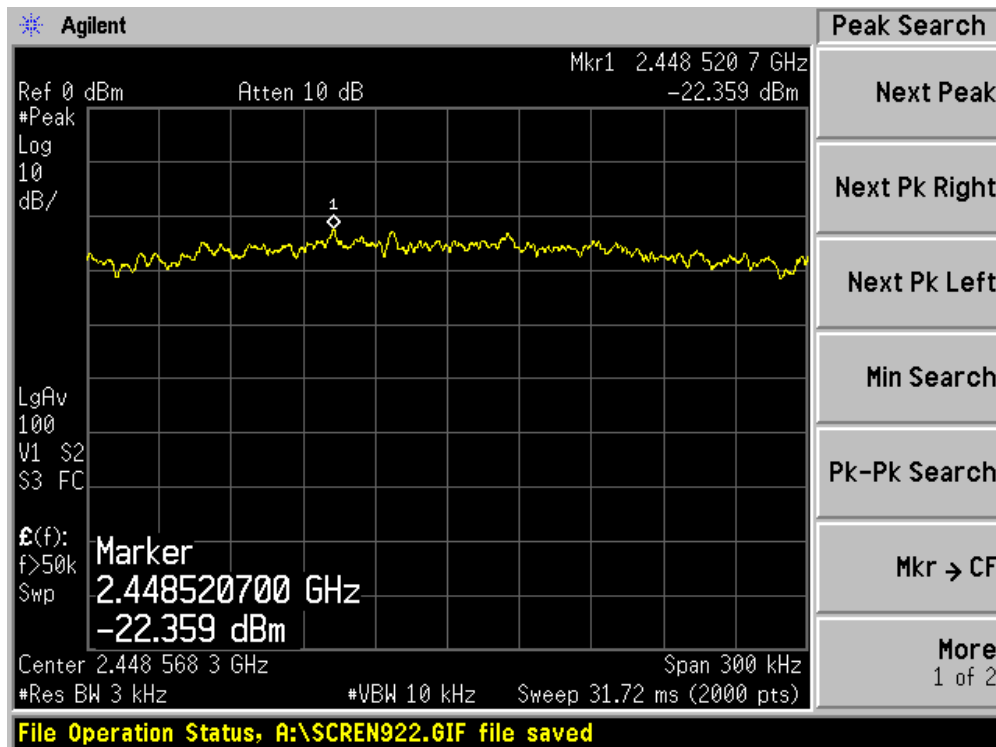
Channel 03 (2422MHz)



Channel 06 (2437MHz)



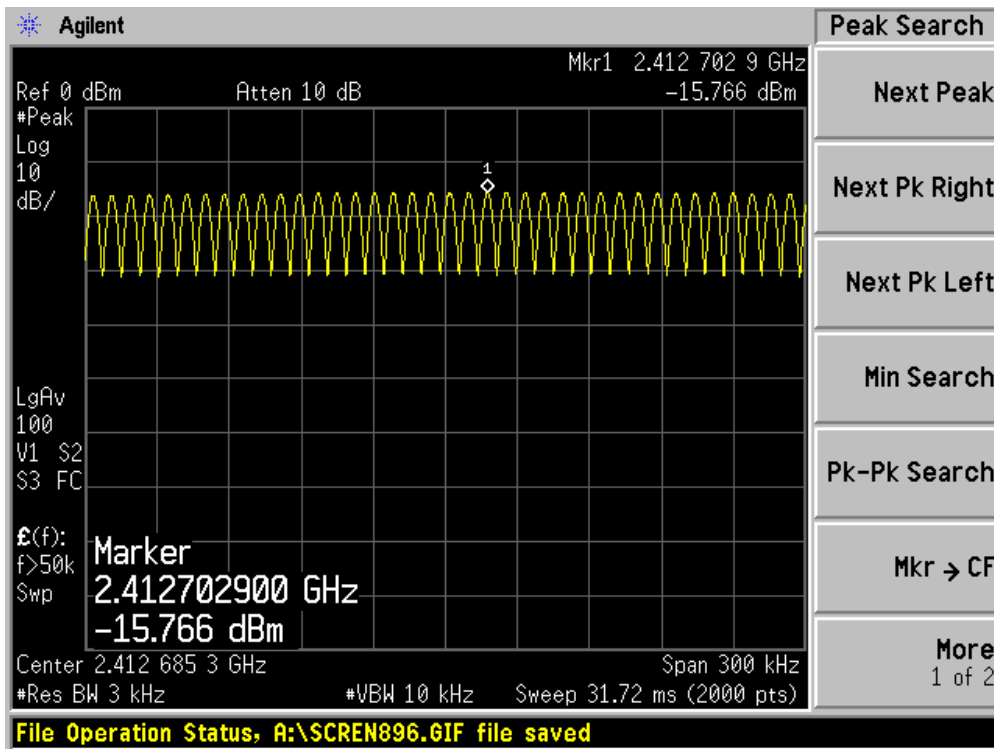
Channel 09 (2462MHz)



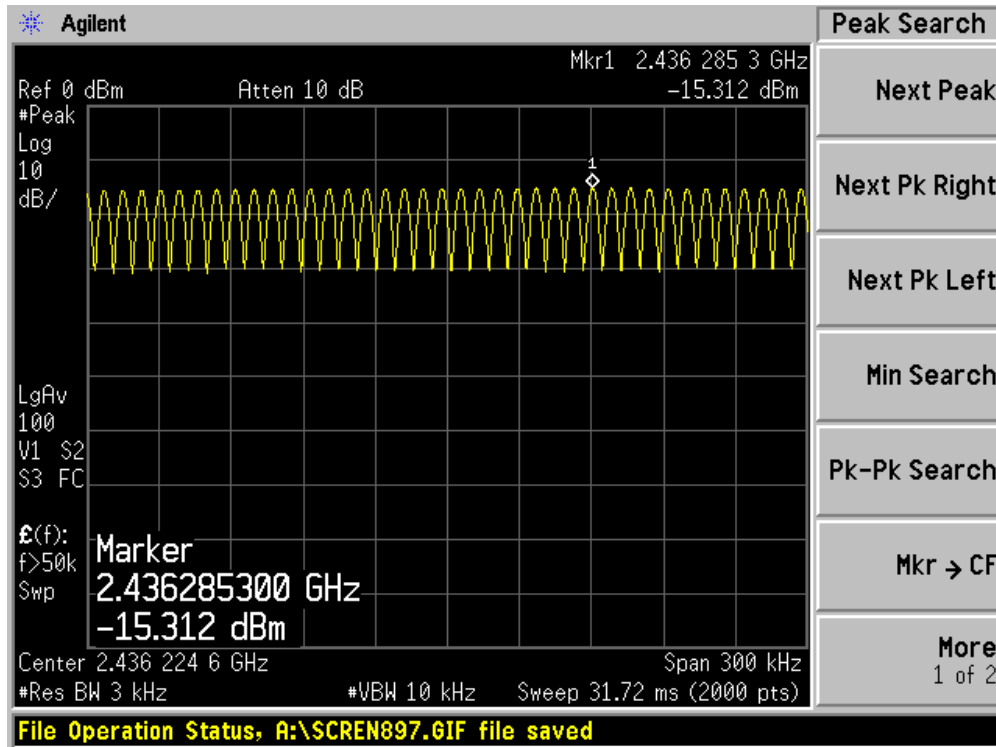
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 1: Transmit by 802.11b (DAC1)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-15.766	8	Pass
06	2437	-15.312	8	Pass
11	2462	-14.933	8	Pass

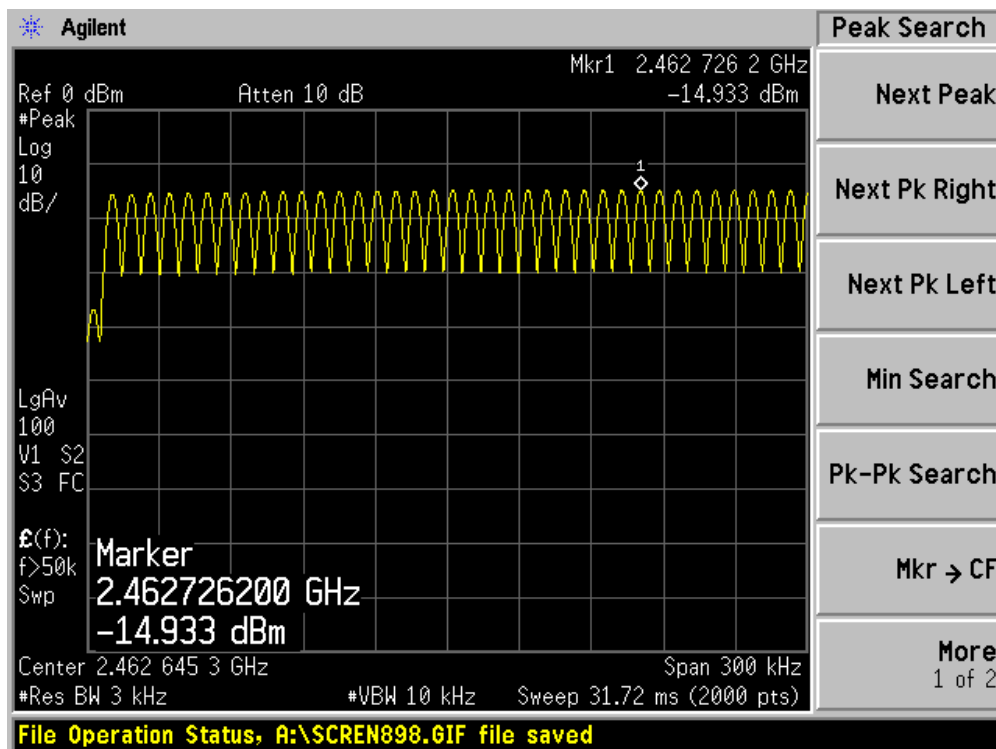
Channel 01 (2412MHz)



Channel 06 (2437MHz)



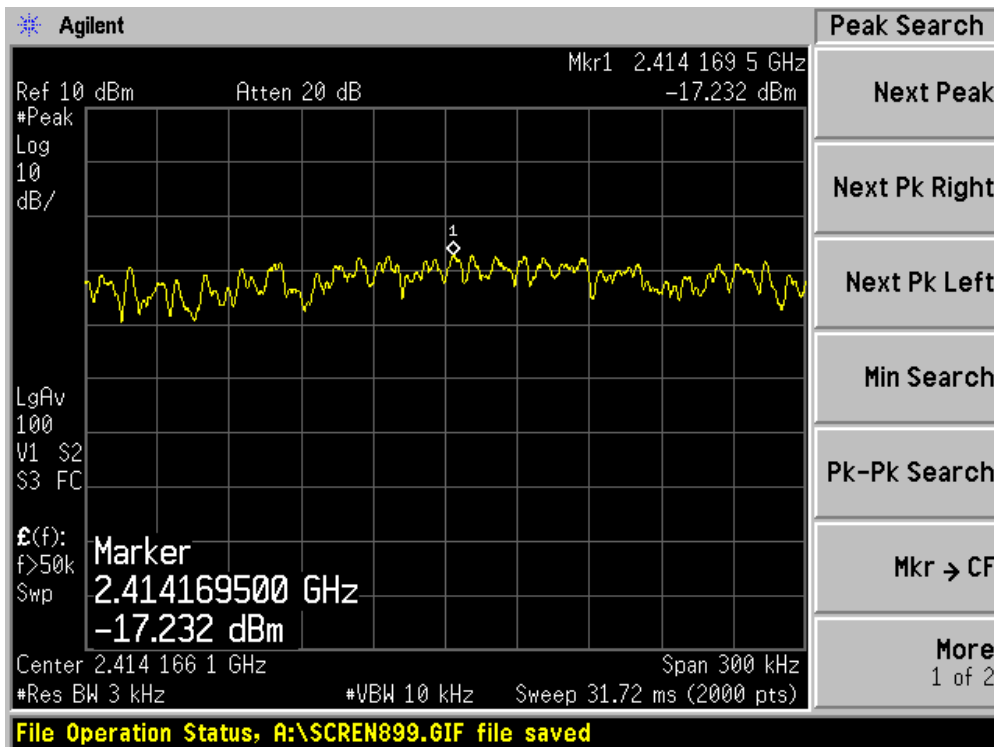
Channel 11 (2462MHz)



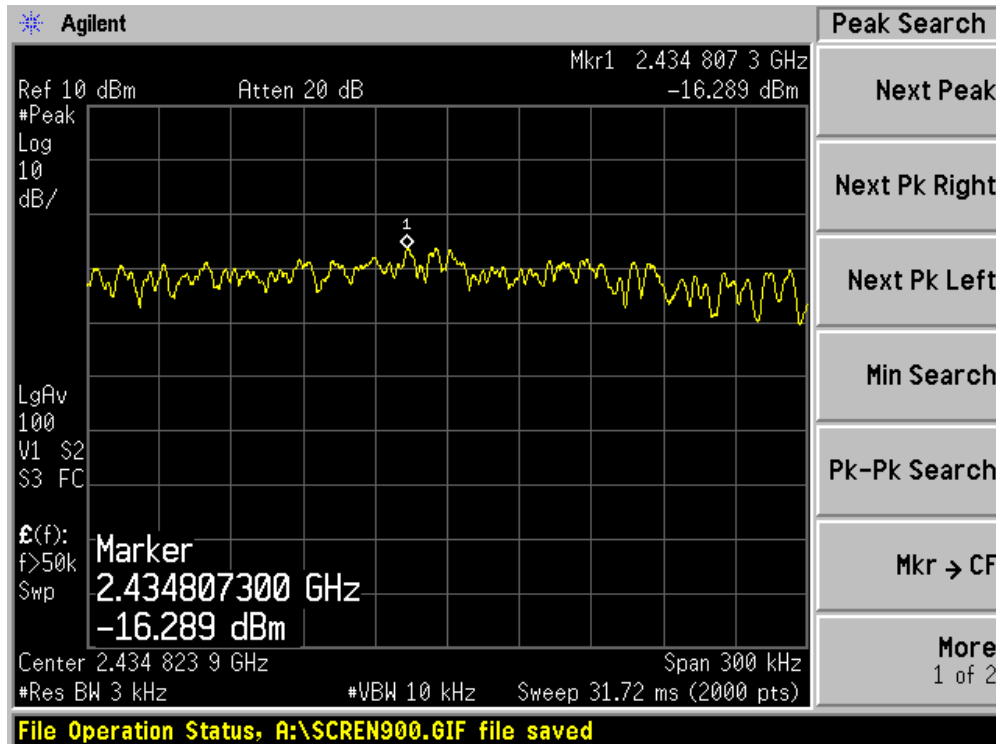
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 2: Transmit by 802.11g (DAC1)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-17.232	8	Pass
06	2437	-16.289	8	Pass
11	2462	-16.475	8	Pass

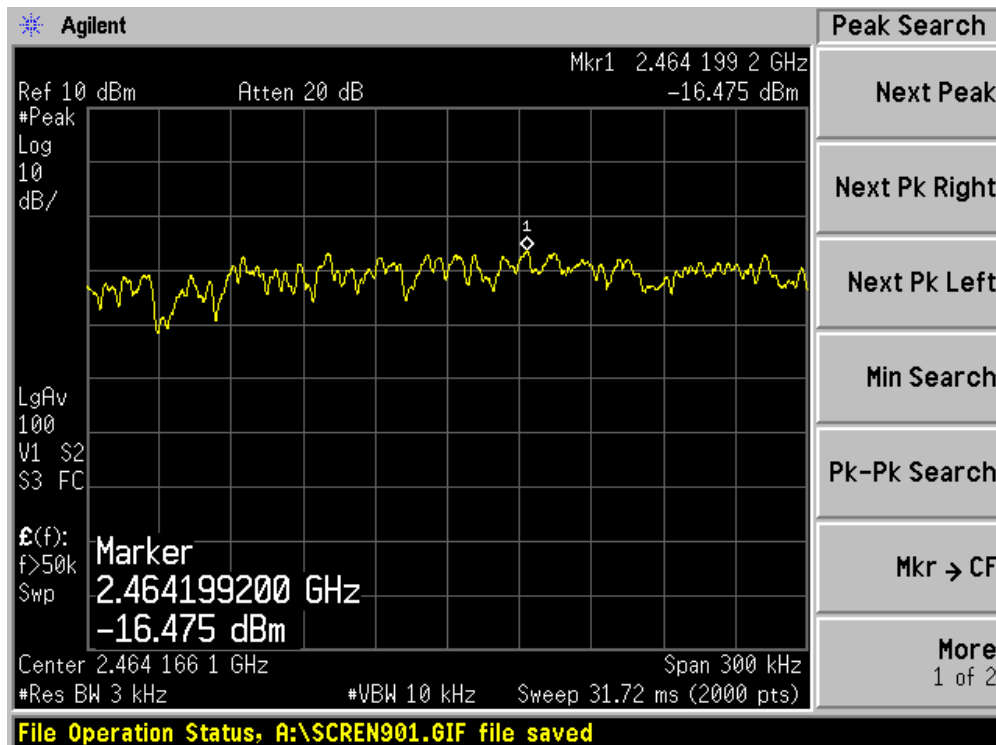
Channel 01 (2412MHz)



Channel 06 (2437MHz)



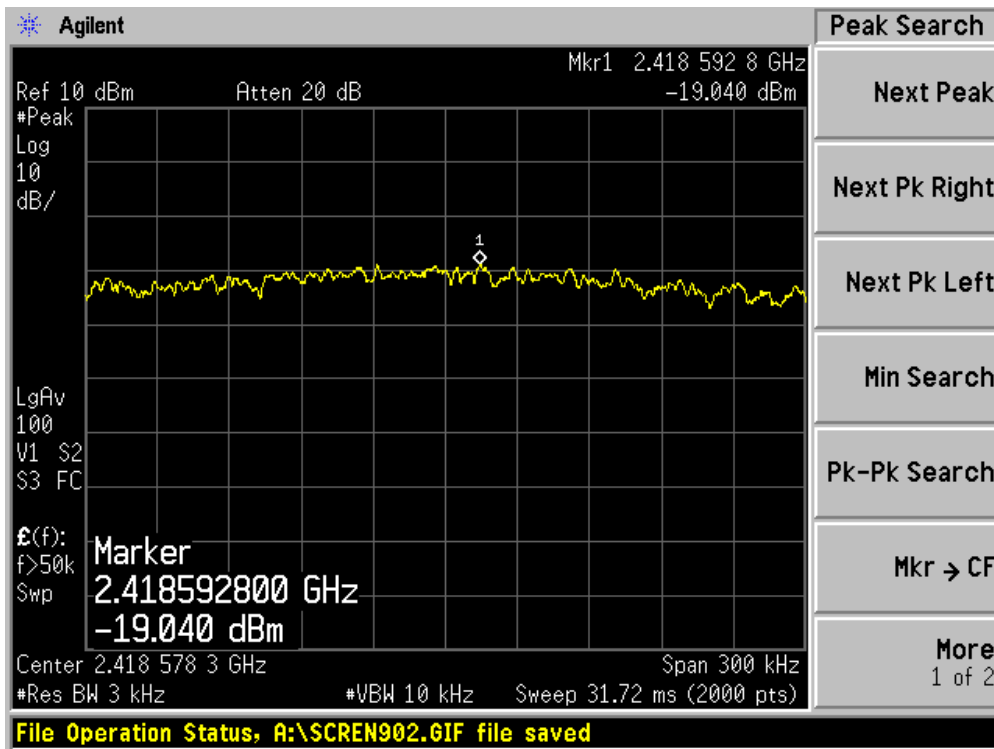
Channel 11 (2462MHz)



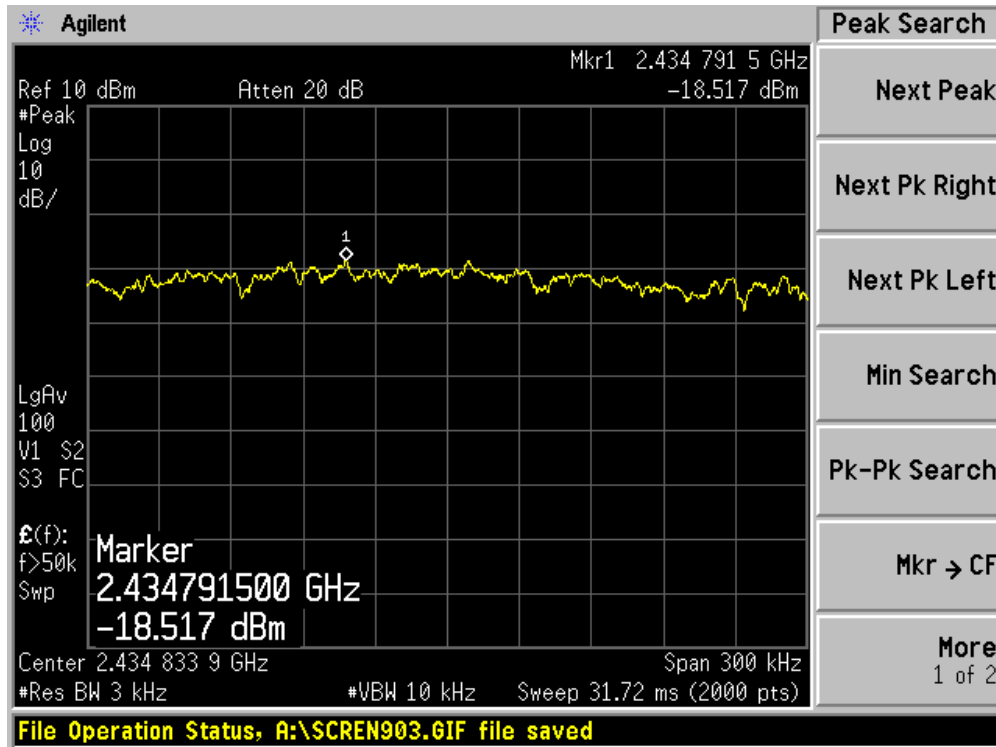
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC1)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
01	2412	-19.040	8	Pass
06	2437	-18.517	8	Pass
11	2462	-18.181	8	Pass

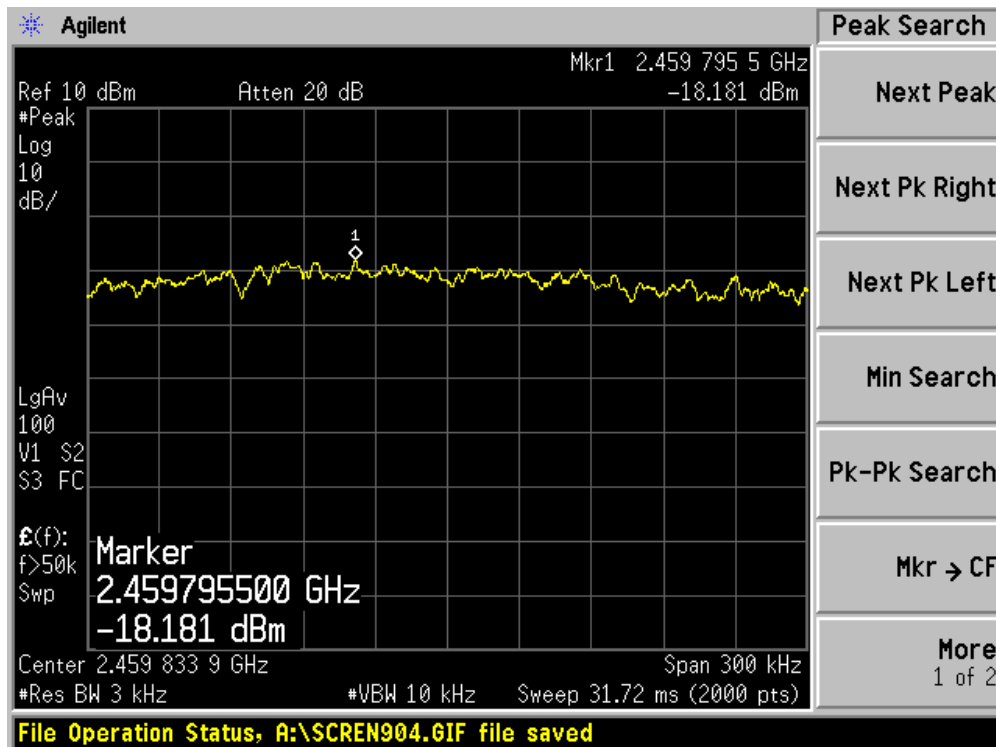
Channel 01 (2412MHz)



Channel 06 (2437MHz)



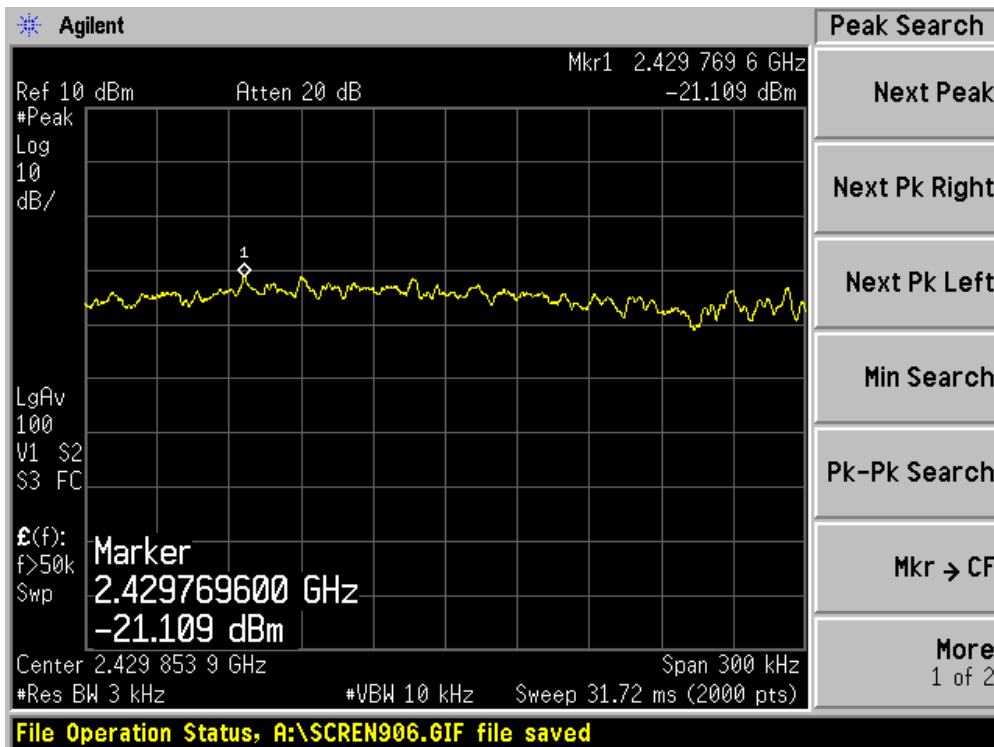
Channel 11 (2462MHz)



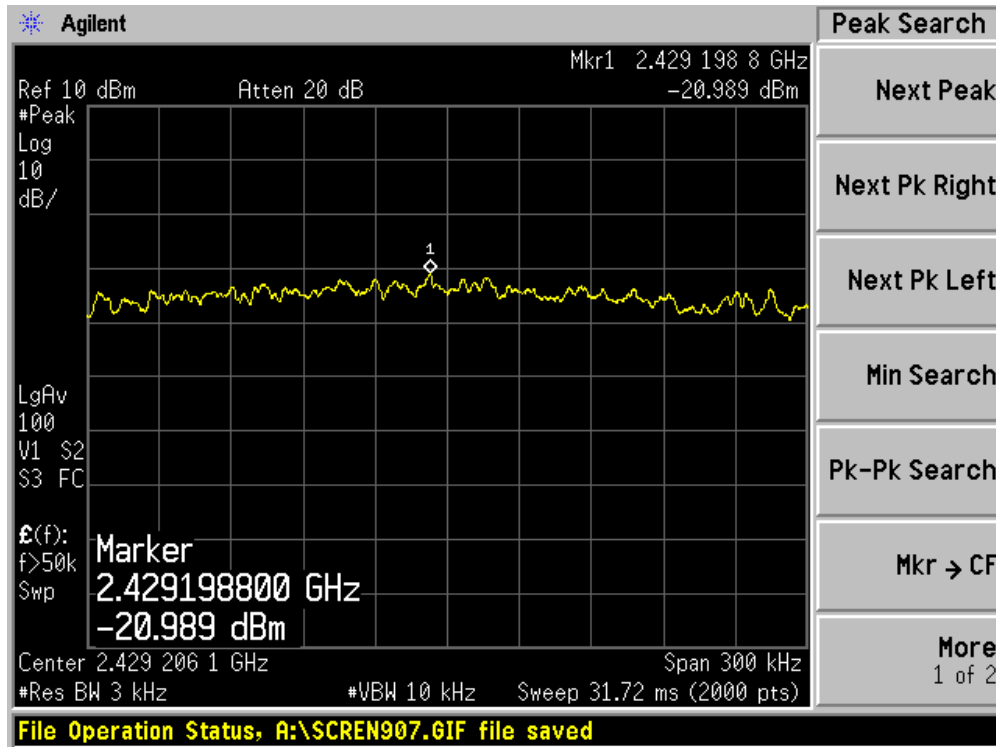
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz) (DAC1)

Channel No.	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
03	2412	-21.109	8	Pass
06	2437	-20.989	8	Pass
09	2462	-20.088	8	Pass

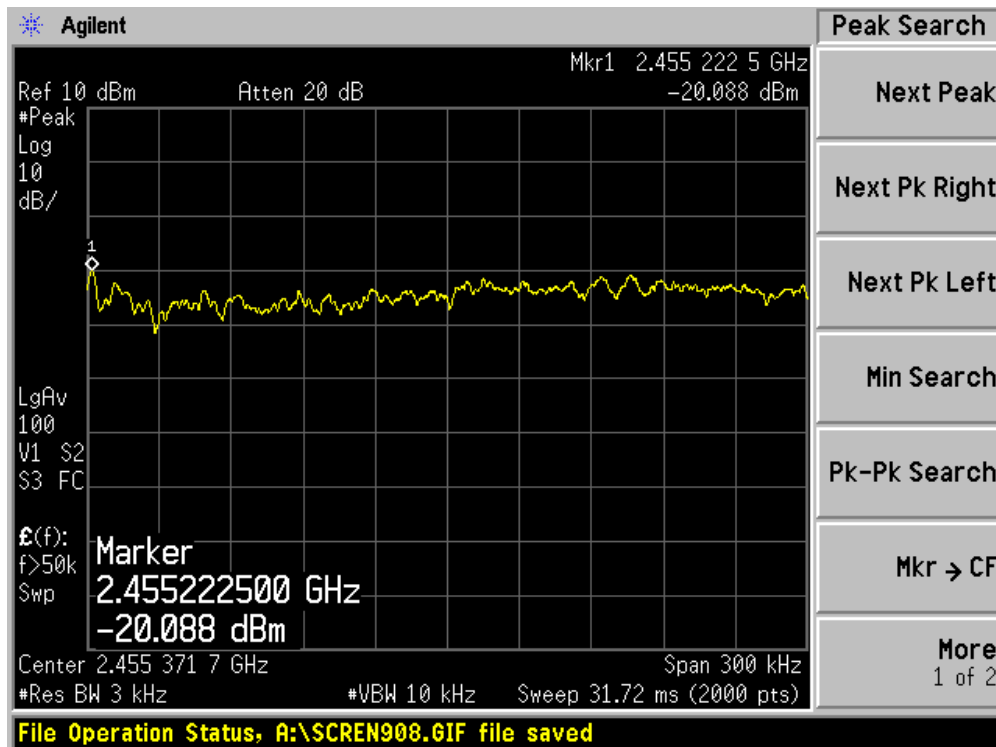
Channel 03 (2422MHz)



Channel 06 (2437MHz)



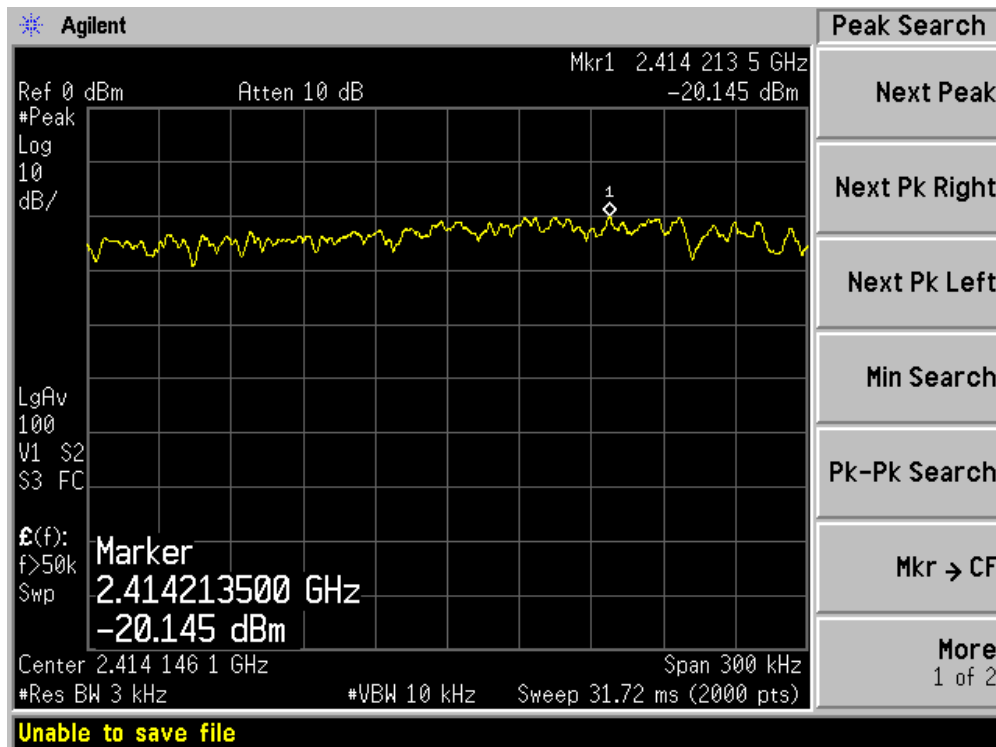
Channel 09 (2462MHz)



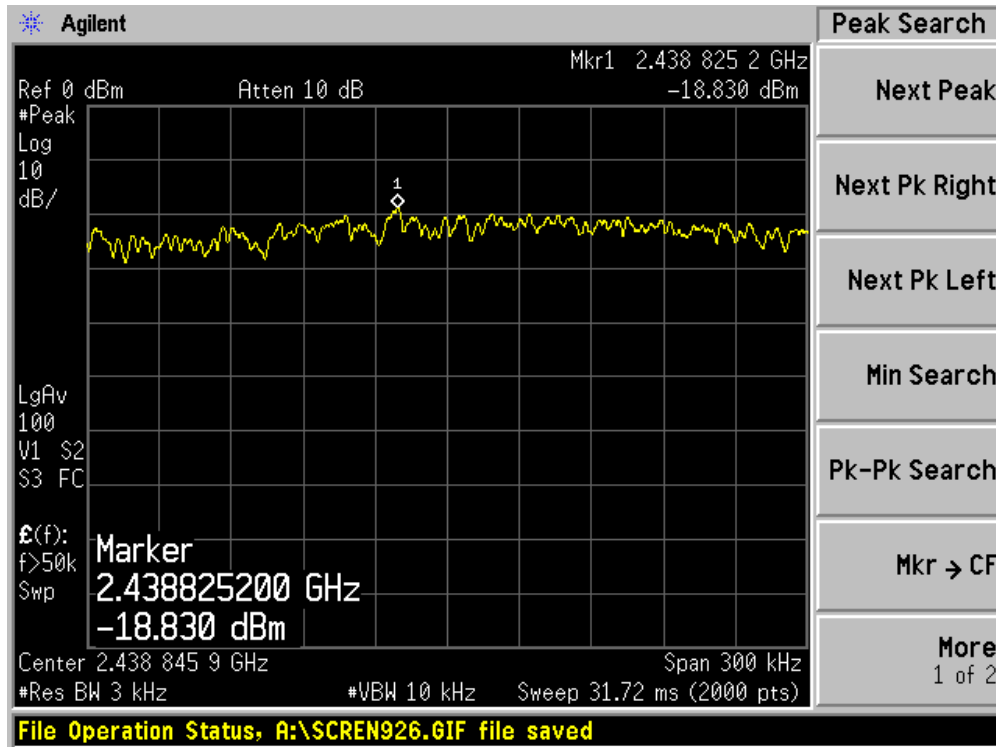
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz) (DAC0 and DAC1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain DAC0	Chain DAC1			
01	2412	-20.145	-17.914	-15.88	8	Pass
06	2437	-18.830	-19.845	-16.30	8	Pass
11	2462	-18.752	-19.806	-16.24	8	Pass

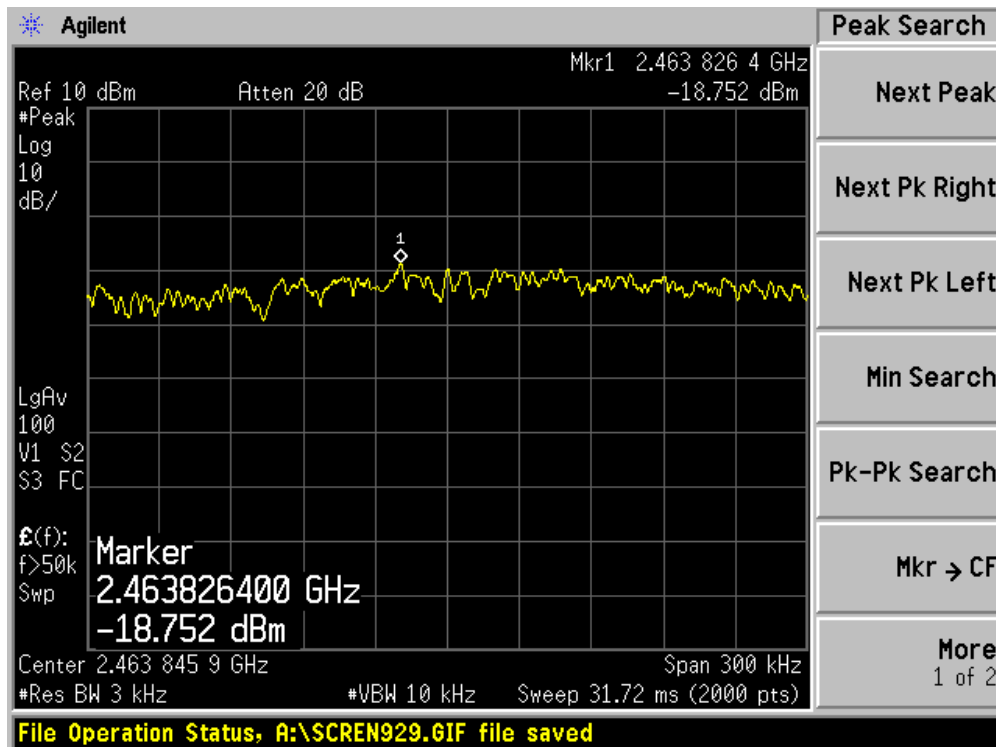
Channel 01 (2412MHz) – Chain DAC0



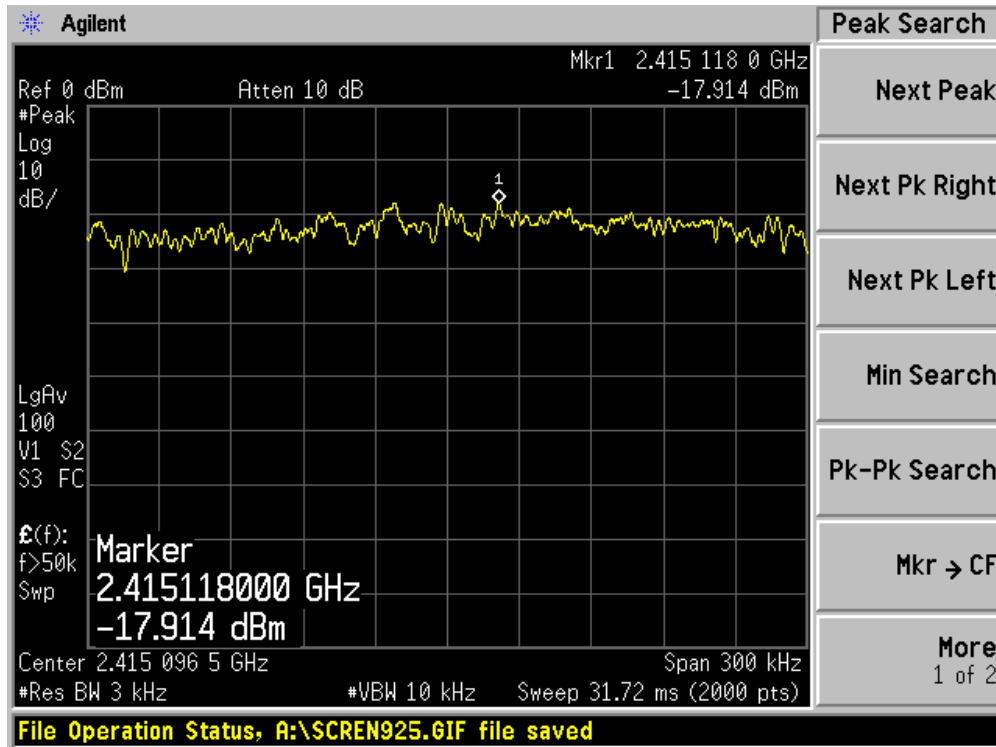
Channel 06 (2437MHz) – Chain DAC0



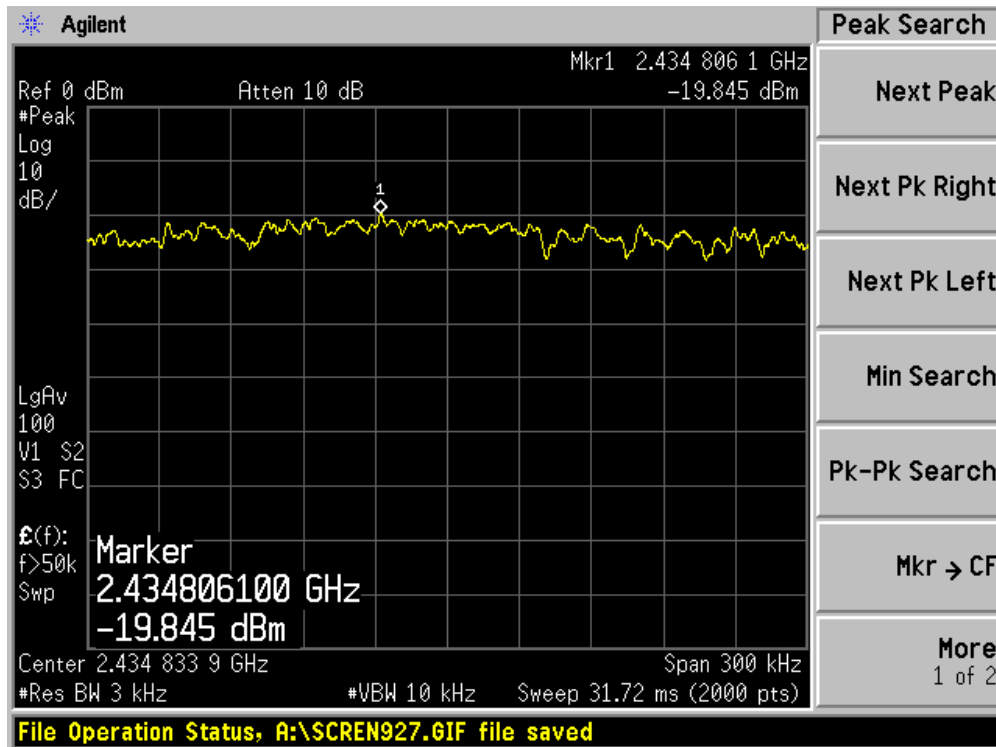
Channel 11 (2462MHz) – Chain DAC0



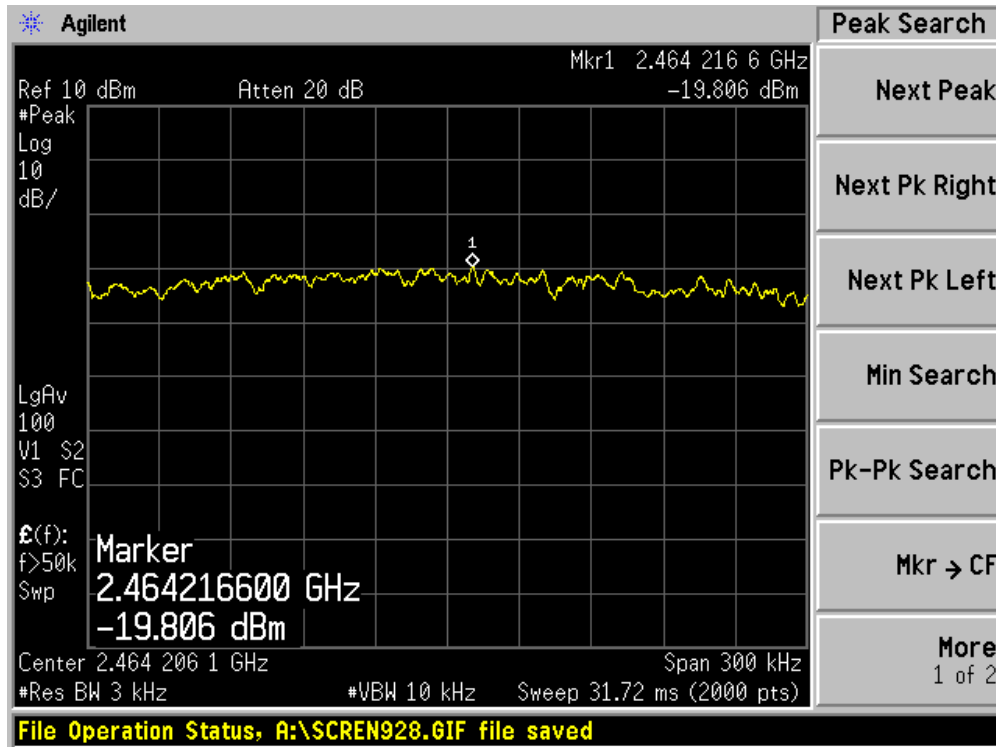
Channel 01 (2412MHz) – Chain DAC1



Channel 06 (2437MHz) – Chain DAC1



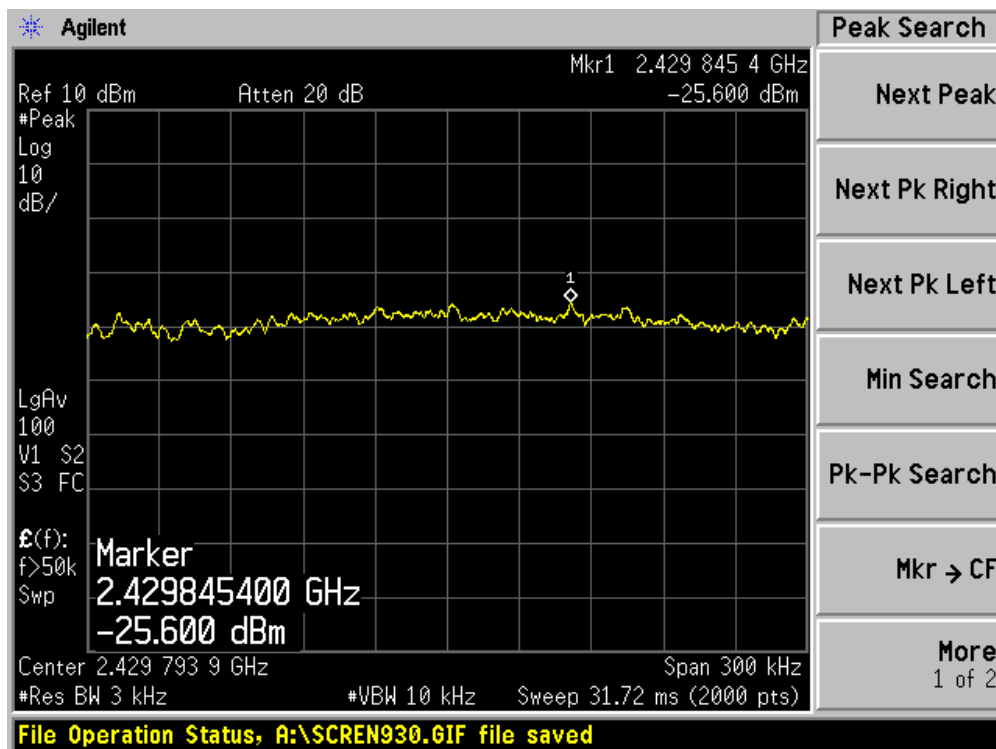
Channel 11 (2462MHz) – Chain DAC1



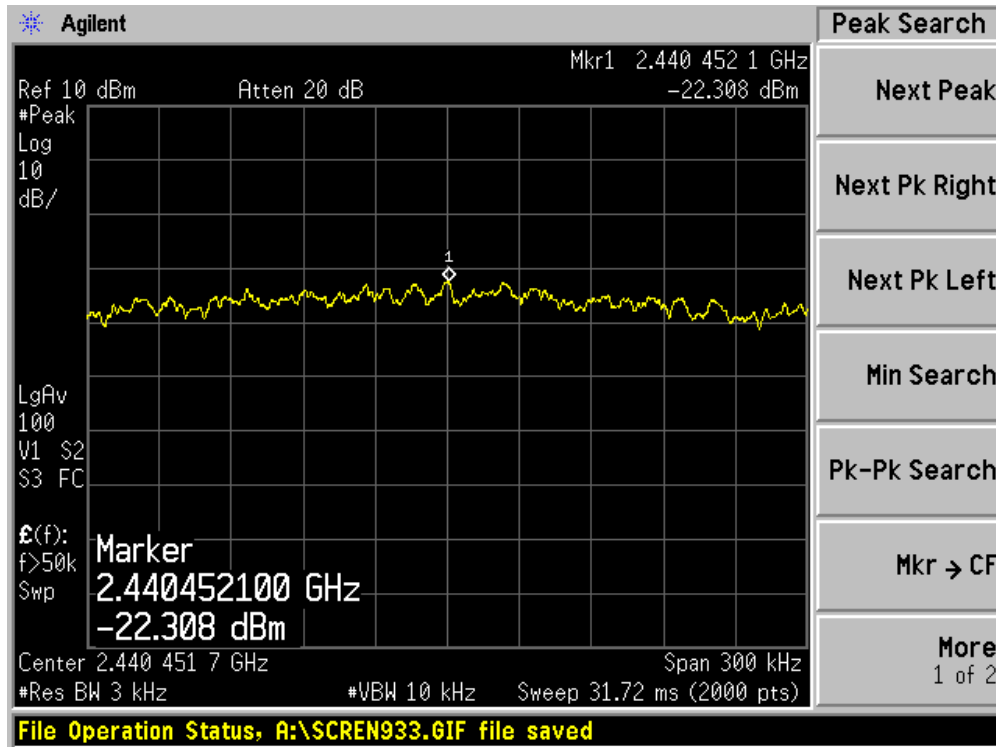
Product	:	802.11n Wireless LAN Module
Test Item	:	Power Spectral Density
Test Site	:	AC-4
Test Mode	:	Mode 3: Transmit by 802.11n (40MHz) (DAC0 and DAC1)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm)		Total PPSD (dBm)	Limit (dBm)	Result
		Chain DAC0	Chain DAC1			
03	2422	-25.600	-22.369	-20.68	8	Pass
06	2437	-22.308	-22.242	-19.26	8	Pass
09	2452	-23.165	-21.929	-19.49	8	Pass

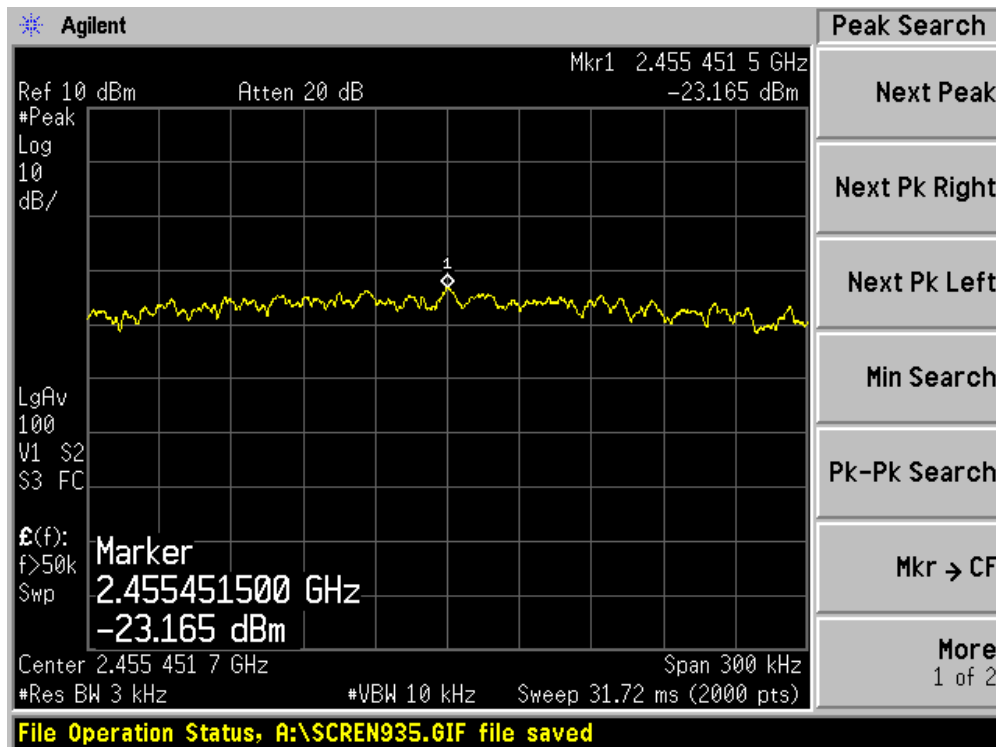
Channel 03 (2422MHz) – Chain DAC0



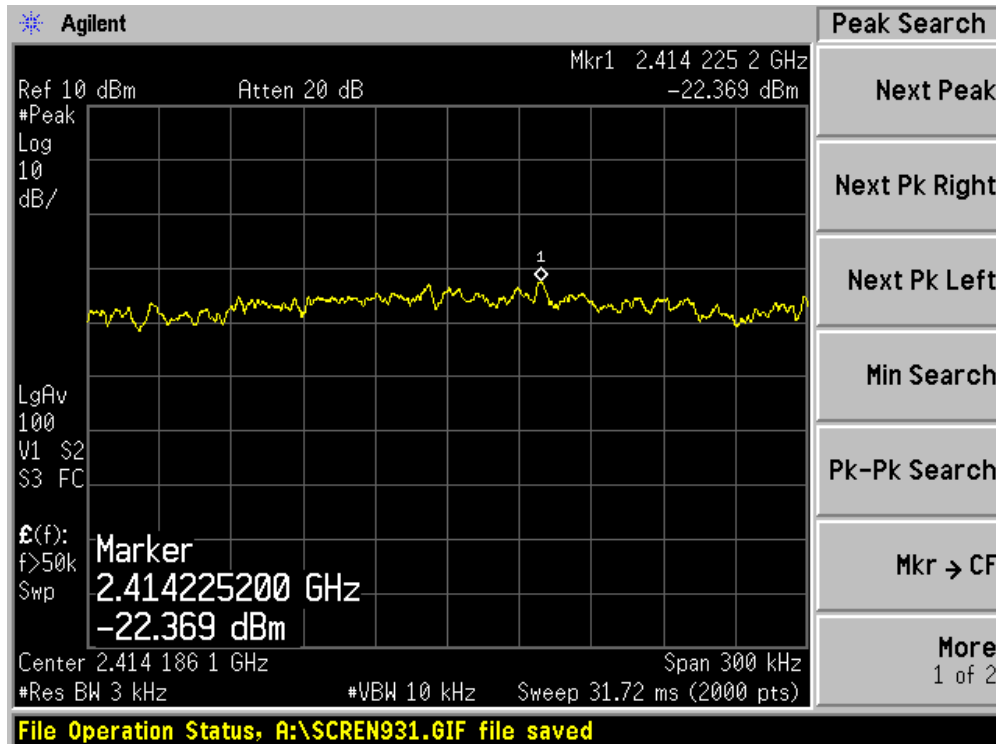
Channel 06 (2437MHz) – Chain DAC0



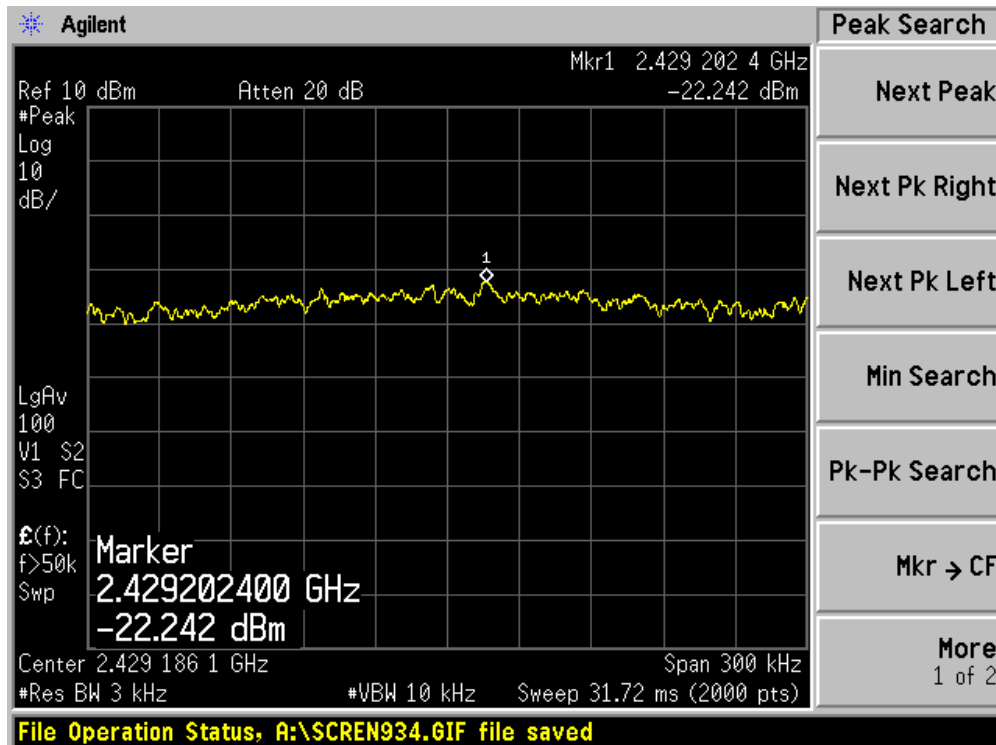
Channel 09 (2452MHz) – Chain DAC0



Channel 03 (2422MHz) – Chain DAC1



Channel 06 (2437MHz) – Chain DAC1



Channel 09 (2452MHz) – Chain DAC1

