

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

### INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 210

OF

<b>Product Name:</b>	<b>Mobile Phone</b>
<b>Brand Name:</b>	<b>Sony</b>
<b>Marketing Name:</b>	<b>ST23a</b>
<b>Model No.:</b>	<b>PM-0190-BV</b>
<b>Model Different:</b>	<b>N/A</b>
<b>FCC ID:</b>	<b>PY7PM-0190</b>
<b>IC:</b>	<b>4170B-PM0190</b>
<b>Report No.:</b>	<b>EH/2012/40019</b>
<b>Issue Date:</b>	<b>Jun. 08, 2012</b>
<b>FCC Rule Part:</b>	<b>§15.247, Cat: DTS</b>
<b>IC Rule Part:</b>	<b>RSS-210 issue 8 :2010, Annex 8</b>
<b>Prepared for:</b>	<b>Sony Mobile Communications AB Nya Vattentornet 22188 Lund/SWEDEN SGS Taiwan Ltd.</b>
<b>Prepared by:</b>	<b>Electronics &amp; Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei County, Taiwan</b>



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**VERIFICATION OF COMPLIANCE**

**Applicant:** Sony Mobile Communications AB  
Nya Vattentornet 22188 Lund/SWEDEN

**Product Name:** Mobile Phone

**Brand Name:** Sony

**Marketing Name:** ST23a

**Model No.:** PM-0190-BV

**Model Difference:** N/A

**FCC ID:** PY7PM-0190

**IC:** 4170B-PM0190

**File Number:** EH/2012/40019

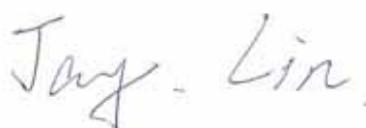
**Date of test:** Apr. 17, 2012 ~ Jun. 07, 2012

**Date of EUT Received:** Apr. 17, 2012

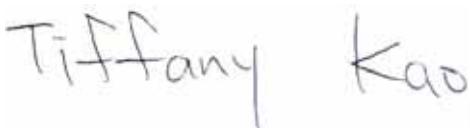
**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2003 & ANSI 63.10:2009 and RSS-Gen. issue 3 the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and IC RSS 210 issue 8: 2010 Annex 8.

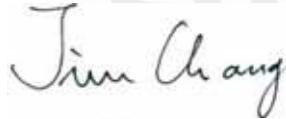
The test results of this report relate only to the tested sample identified in this report.

**Test By:****Date**

Jun. 08, 2012

*Jay Lin / Engineer***Prepared By:****Date**

Jun. 08, 2012

*Tiffany Kao / Clerk***Approved By:****Date**

Jun. 08, 2012

*Jim Chang / Supervisor*

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## Version

<b>Version No.</b>	<b>Date</b>	<b>Description</b>
00	Jun. 08, 2012	Initial creation of document

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## 1 GENERAL INFORMATION

General:

Product Name:	Mobile Phone	
Brand Name:	Sony	
Marketing Name:	ST23a	
Model No.:	PM-0190-BV	
Model difference:	N/A	
Data Cable (USB):	Model No.: EC450, Supplier: K-one, Part No.: 1242-6715	
Simple Hands-free (SHF):	Model No.: MH410C, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp, Type No.: CAA-0003013	
Hardware Version:	A	
Software Version:	2.3.J.3.8_userdebug	
Power Supply:	3.7Vdc form Li-Ion battery or 5Vdc form adapter.	
	Battery:	1. Model No.: BA700, Supplier: LG Type No.: CBA-0002025 2. Model No.: BA700, Supplier: Samsung Type No.: CBA-0002026
	Adapter :	1. Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US, CAA-0002016-BV 2. Model No.: EP800, Supplier: EMERSON Type No.: CAA-0002022-US, CAA-0002022-BV

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**WLAN:**

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b: 17.70dBm g: 17.16dBm	DSSS, OFDM	b: 12M2G1D g: 16M8G1D
11n	HT20 2412-2462	11	n: 15.79dBm	OFDM	n: 17M6G1D
Antenna Designation:		PIFA Antenna, -0.27dBi.			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps			

The EUT is compliance with IEEE 802.11 b/g/n Standard.

This report applies for frequency bands: 2412MHz – 2462MHz

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### **1.1 Related Submittal(s) / Grant (s)**

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0190** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. And **IC: 4170B-PM0190** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

### **1.2 Test Methodology**

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2010. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Jan 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

### **1.3 Test Facility**

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003 & ANSI 63.10:2009. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 & 10 meters) and FCC Registration Number: 94644.

### **1.4 Special Accessories**

Not available for this EUT intended for grant.

### **1.5 Equipment Modifications**

Not available for this EUT intended for grant.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003 & ANSI 63.10:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

#### 2.3.2 Radiated Emissions

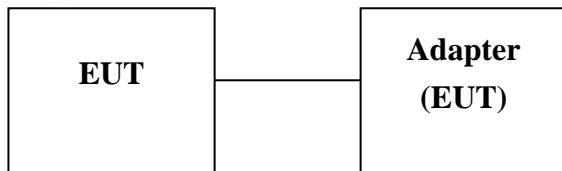
The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna. according to the requirements in Section 8 and 13 of ANSI C63.4-2003 & ANSI 63.10:2009.

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## 2.4 Configuration of Tested System

**Fig. 2-1 Conducted / Radiated Emission Configuration**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Adapter	Salcomp / EMERSON	EP800	N/A	shielded	Un-shielded
2.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §7.2.4	AC Power Line Conducted Emission	Compliant
§15.247(b) (3),(4)(c) RSS-210 §A8.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-210 §A8.4(4)	6dB Bandwidth	Compliant
§15.247(d) RSS-210 §A8.4(4)	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d) RSS-210 §A8.4(4)	Spurious Emission	Compliant
§15.247(e) RSS-210 §A8.2(b)	Peak Power Density	Compliant
§15.203 RSS-GEN §7.1.2,	Antenna Requirement	Compliant
RSS-Gen §4.6.1	99% Power Bandwidth	Compliant

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## 4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

802.11 b mode: Channel low (2412MHz) mid (2437MHz) and high (2462MHz) with 1Mbps lowest data rate are chosen for full testing.

802.11 g mode: Channel low (2412MHz) mid (2437MHz) and high (2462MHz) with 6Mbps lowest data rate are chosen for full testing.

802.11 n mode: Channel low (2412MHz) mid (2437MHz) and high (2462MHz) with 6.5Mbps lowest data rate are chosen for full testing.

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

## 5 MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

Measurement uncertainty (Polarization : <b>Vertical</b> )	30MHz - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	1GHz - 18GHz: 4.04dB
	18GHz - 40GHz: 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	30MHz - 167MHz: 4.22dB
	167MHz -500MHz: 3.44dB
	0.5GHz-1GHz: 3.39dB
	1GHz - 18GHz: 4.08dB
	18GHz - 40GHz: 4.08dB

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## 6 CONDUCTED EMISSION TEST

### 6.1 Standard Applicable:

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150KHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

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

### 6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2011	09/22/2012
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2012	03/22/2013
LISN	FCC	FCC-LISN-50/250-2 5-2-01	04034	03/23/2012	03/22/2013
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2012	01/04/2013

### 6.3 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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**6.4 Measurement Procedure:**

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

**6.5 Measurement Result:**

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

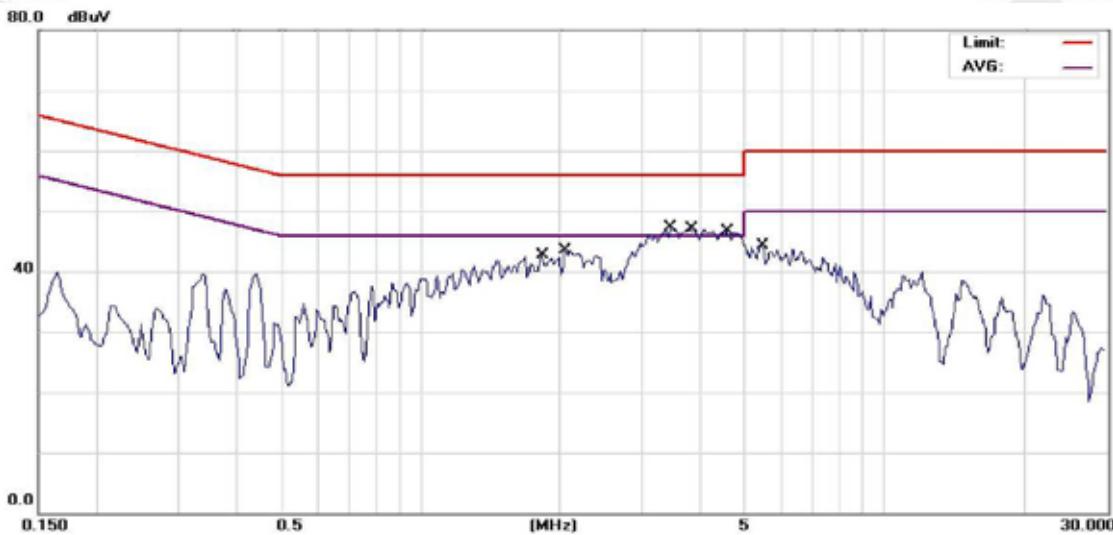
Note: Refer to next page for measurement data and plots.

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**AC POWER LINE CONDUCTED EMISSION TEST DATA**

Operation Mode:	Operation	Test Date:	May. 18, 2012
Temperature:	24	Humidity:	59 %

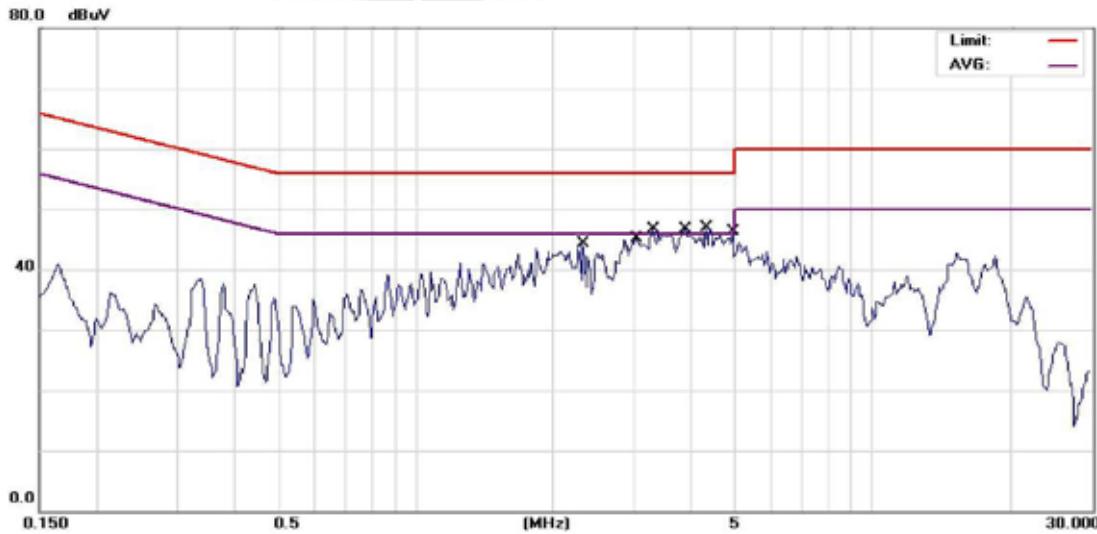


Site: site#1	Phase: <b>L1</b>	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
EUT: MobilePhone	Distance:	
M/N: ST23a		
Note: Operation mode		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
							dB	Detector	Comment
1	1.8200	36.60	0.24	36.84	56.00	-19.16	QP		
2	1.8200	27.60	0.24	27.84	46.00	-18.16	AVG		
3	2.0500	37.80	0.25	38.05	56.00	-17.95	QP		
4	2.0500	28.60	0.25	28.85	46.00	-17.15	AVG		
5	3.4700	41.70	0.29	41.99	56.00	-14.01	QP		
6 *	3.4700	33.20	0.29	33.49	46.00	-12.51	AVG		
7	3.8300	42.00	0.30	42.30	56.00	-13.70	QP		
8	3.8300	33.10	0.30	33.40	46.00	-12.60	AVG		
9	4.5800	41.20	0.32	41.52	56.00	-14.48	QP		
10	4.5800	32.60	0.32	32.92	46.00	-13.08	AVG		
11	5.4600	39.80	0.34	40.14	60.00	-19.86	QP		
12	5.4600	31.20	0.34	31.54	50.00	-18.46	AVG		

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Site: site#1 Phase: **N** Temperature: 26 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
MN: ST23a  
Note: Operation mode

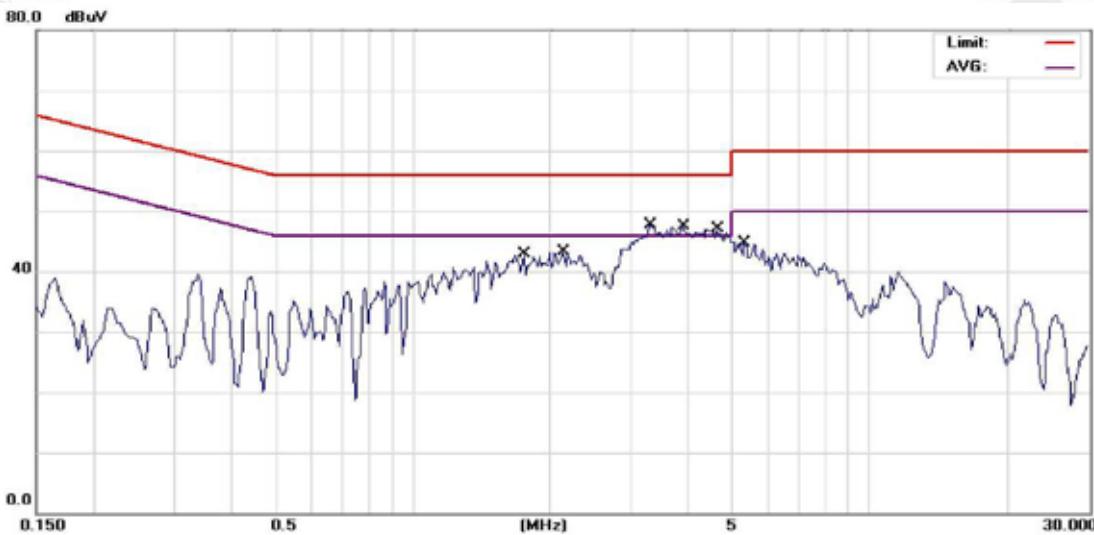
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
							dBuV	dB	Detector
1	2.3352	40.20	0.33	40.53	56.00	-15.47	QP		
2	2.3352	28.60	0.33	28.93	46.00	-17.07	AVG		
3	3.0400	40.70	0.34	41.04	56.00	-14.96	QP		
4	3.0400	31.40	0.34	31.74	46.00	-14.26	AVG		
5	3.3000	40.10	0.34	40.44	56.00	-15.56	QP		
6	3.3000	31.70	0.34	32.04	46.00	-13.96	AVG		
7	3.9000	40.30	0.35	40.65	56.00	-15.35	QP		
8 *	3.9000	31.70	0.35	32.05	46.00	-13.95	AVG		
9	4.3200	39.60	0.36	39.96	56.00	-16.04	QP		
10	4.3200	31.10	0.36	31.46	46.00	-14.54	AVG		
11	4.9700	39.00	0.37	39.37	56.00	-16.63	QP		
12	4.9700	30.20	0.37	30.57	46.00	-15.43	AVG		

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation	Test Date:	May. 18, 2012
Temperature:	24	Humidity:	59 %

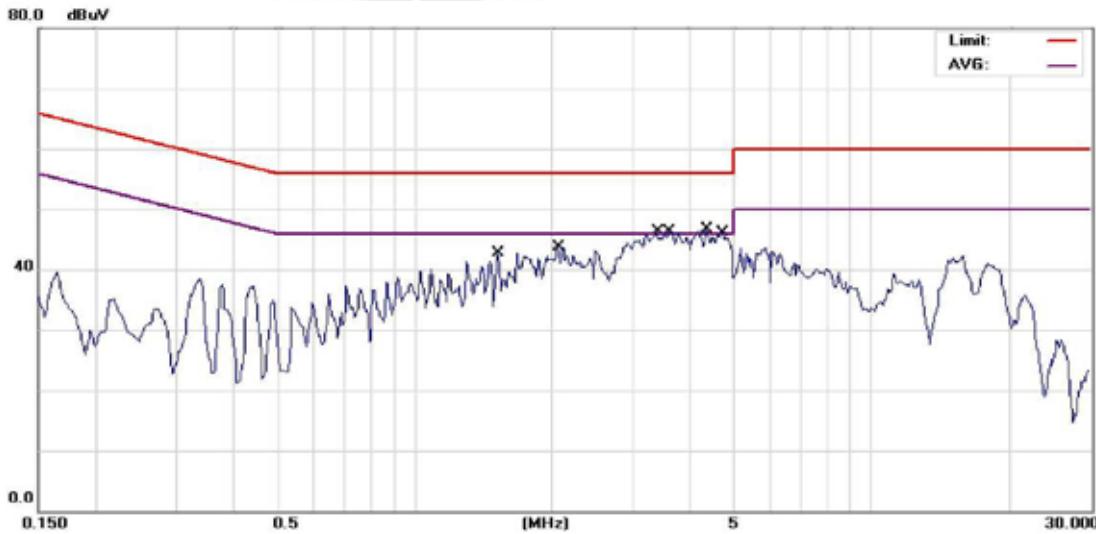


Site: site#1  
 Phase: **L1**  
 Temperature: 26 °C  
 Limit: FCC Class B Conduction(QP)  
 Power: AC 120V/60Hz  
 Humidity: 60%  
 EUT: MobilePhone  
 Distance:  
 M/N: ST23a  
 Note: Operation mode

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Comment
							MHz	dBuV	dB
1		1.7600	37.00	0.24	37.24	56.00	-18.76	QP	
2		1.7600	27.60	0.24	27.84	46.00	-18.16	AVG	
3		2.1400	38.70	0.25	38.95	56.00	-17.05	QP	
4		2.1400	29.60	0.25	29.85	46.00	-16.15	AVG	
5		3.3100	42.40	0.28	42.68	56.00	-13.32	QP	
6	*	3.3100	33.60	0.28	33.88	46.00	-12.12	AVG	
7		3.9100	41.90	0.30	42.20	56.00	-13.80	QP	
8		3.9100	33.10	0.30	33.40	46.00	-12.60	AVG	
9		4.6500	41.20	0.32	41.52	56.00	-14.48	QP	
10		4.6500	32.60	0.32	32.92	46.00	-13.08	AVG	
11		5.3200	39.90	0.33	40.23	60.00	-19.77	QP	
12		5.3200	31.50	0.33	31.83	50.00	-18.17	AVG	

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Site: site#1 Phase: **N** Temperature: 26 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%  
EUT: MobilePhone Distance:  
MN: ST23a  
Note: Operation mode

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
							dBuV	dB	Detector
1	1.5200	38.80	0.32	39.12	56.00	-16.88	QP		
2	1.5200	27.90	0.32	28.22	46.00	-17.78	AVG		
3	2.0600	38.90	0.33	39.23	56.00	-16.77	QP		
4	2.0600	28.30	0.33	28.63	46.00	-17.37	AVG		
5	3.4100	40.20	0.34	40.54	56.00	-15.46	QP		
6 *	3.4100	31.70	0.34	32.04	46.00	-13.96	AVG		
7	3.6200	40.20	0.35	40.55	56.00	-15.45	QP		
8	3.6200	31.60	0.35	31.95	46.00	-14.05	AVG		
9	4.3500	40.00	0.36	40.36	56.00	-15.64	QP		
10	4.3500	31.20	0.36	31.56	46.00	-14.44	AVG		
11	4.7200	39.60	0.37	39.97	56.00	-16.03	QP		
12	4.7200	30.80	0.37	31.17	46.00	-14.83	AVG		

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## 7 PEAK OUTPUT POWER MEASUREMENT

### 7.1 Standard Applicable:

According to §15.247(a)(2), (b)

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.

(1) Fixed point-to-point operation:

(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

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According to RSS-210 issue 8,§A8.4(4), for systems employing digital modulation techniques operating in the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz, the maximum peak conducted output power shall not exceed 1 W. Except as provided in Section A8.4 (5), the e.i.r.p. shall not exceed 4 W.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signalling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

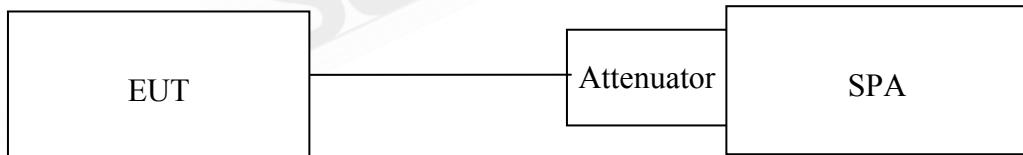
## 7.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/17/2012	03/16/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2012	02/27/2013
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2012	01/04/2013
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2012	02/27/2013
Splitter	Agilent	11636B	N/A	02/28/2012	02/27/2013

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### 7.3 Test Set-up:



### 7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW = 1MHz, VBW = 3MHz, Bandwidth = 26dB occupied Bandwidth)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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## 7.5 Measurement Result:

### 802.11b

Cable loss = 0		Peak Power Output (dBm)				Required Limit	
CH	Frequency (MHz)	Data Rate					
		1	2	5.5	11		
1	2412	16.98	16.89	16.88	16.85	1 Watt = 30 dBm	
6	2437	16.92	16.88	16.78	16.74	1 Watt = 30 dBm	
11	2462	17.70	17.68	17.61	17.55	1 Watt = 30 dBm	

Cable loss = 0		Average Power Output (dBm)				Required Limit	
CH	Frequency (MHz)	Data Rate					
		1	2	5.5	11		
1	2412	14.29	14.24	14.20	14.14	1 Watt = 30 dBm	
6	2437	14.31	14.24	14.20	14.14	1 Watt = 30 dBm	
11	2462	15.25	15.15	15.09	14.99	1 Watt = 30 dBm	

### 802.11g

Cable loss = 0		Peak Power Output(dBm)								Required Limit	
CH	Frequency (MHz)	Data Rate									
		6	9	12	18	24	36	48	54		
1	2412	16.43	16.41	16.11	15.86	15.76	15.53	15.12	14.97	1 Watt = 30 dBm	
6	2437	16.71	16.52	16.20	16.15	15.98	15.71	15.21	14.98	1 Watt = 30 dBm	
11	2462	17.16	17.06	16.92	16.80	16.69	16.36	16.09	15.87	1 Watt = 30 dBm	

Cable loss = 0		Average Power Output(dBm)								Required Limit	
CH	Frequency (MHz)	Data Rate									
		6	9	12	18	24	36	48	54		
1	2412	13.06	13.01	12.66	12.56	12.10	12.05	11.66	11.41	1 Watt = 30 dBm	
6	2437	13.36	13.30	12.85	12.65	12.35	12.15	11.87	11.59	1 Watt = 30 dBm	
11	2462	13.65	13.47	13.27	13.07	12.92	12.81	12.57	12.52	1 Watt = 30 dBm	

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**802.11n\_20M**

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6.5	13	19.5	26	39	52	58.5	65	
1	<b>2412</b>	15.20	15.15	14.72	14.69	14.07	13.97	13.70	13.56	<b>1 Watt = 30 dBm</b>
6	<b>2437</b>	14.99	14.70	14.39	14.22	13.97	13.87	13.46	13.37	<b>1 Watt = 30 dBm</b>
11	<b>2462</b>	<b>15.79</b>	15.69	15.45	15.30	14.88	14.78	14.53	14.48	<b>1 Watt = 30 dBm</b>

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6.5	13	19.5	26	39	52	58.5	65	
1	<b>2412</b>	11.64	11.61	11.18	11.05	10.52	10.49	9.94	9.74	<b>1 Watt = 30 dBm</b>
6	<b>2437</b>	11.49	11.37	11.00	10.90	10.37	10.31	9.80	9.69	<b>1 Watt = 30 dBm</b>
11	<b>2462</b>	<b>12.50</b>	12.47	12.07	11.97	11.58	11.48	10.97	10.87	<b>1 Watt = 30 dBm</b>

\*Note: Offset 10.7 dB

Note: Refer to next page for plots.

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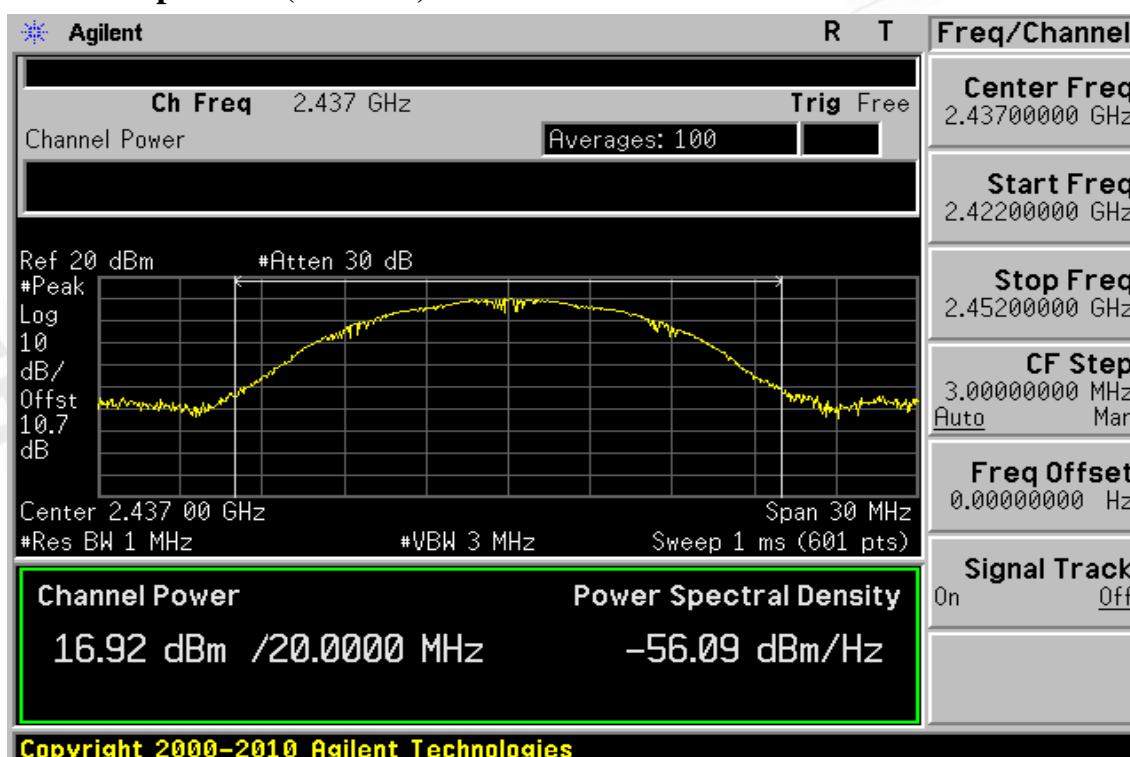
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## 802.11b, 1Mbps

### Peak Power Output Plot (CH Low)



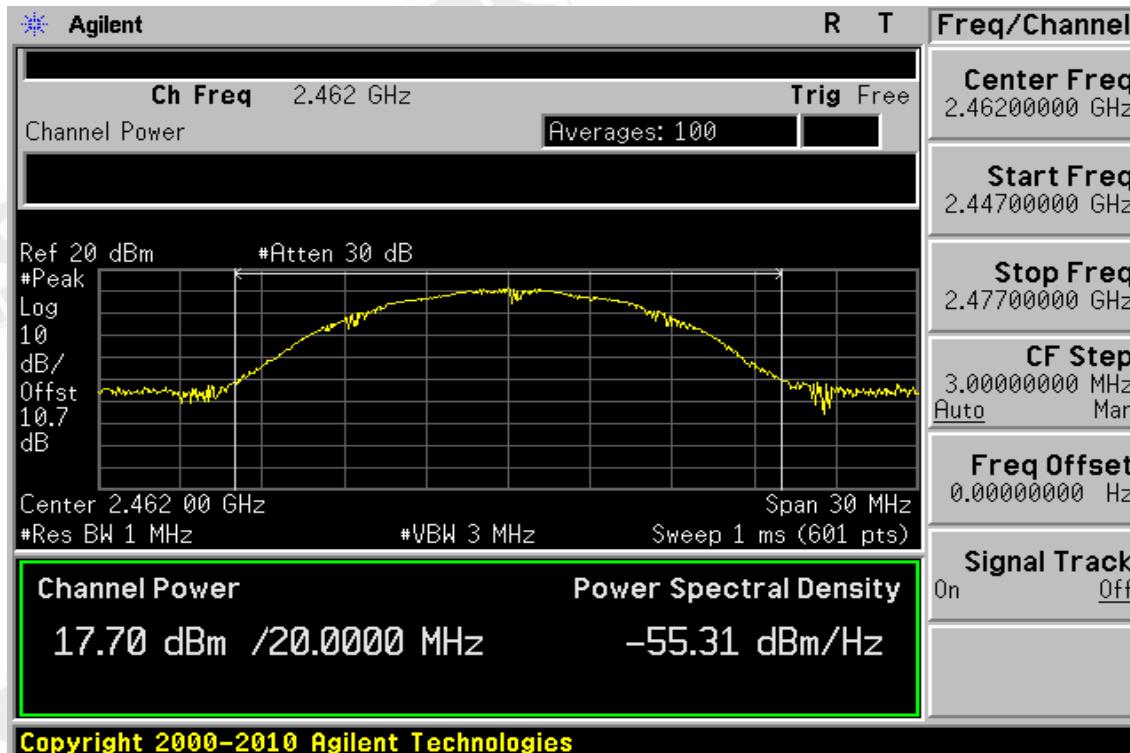
### Peak Power Output Plot (CH Mid)



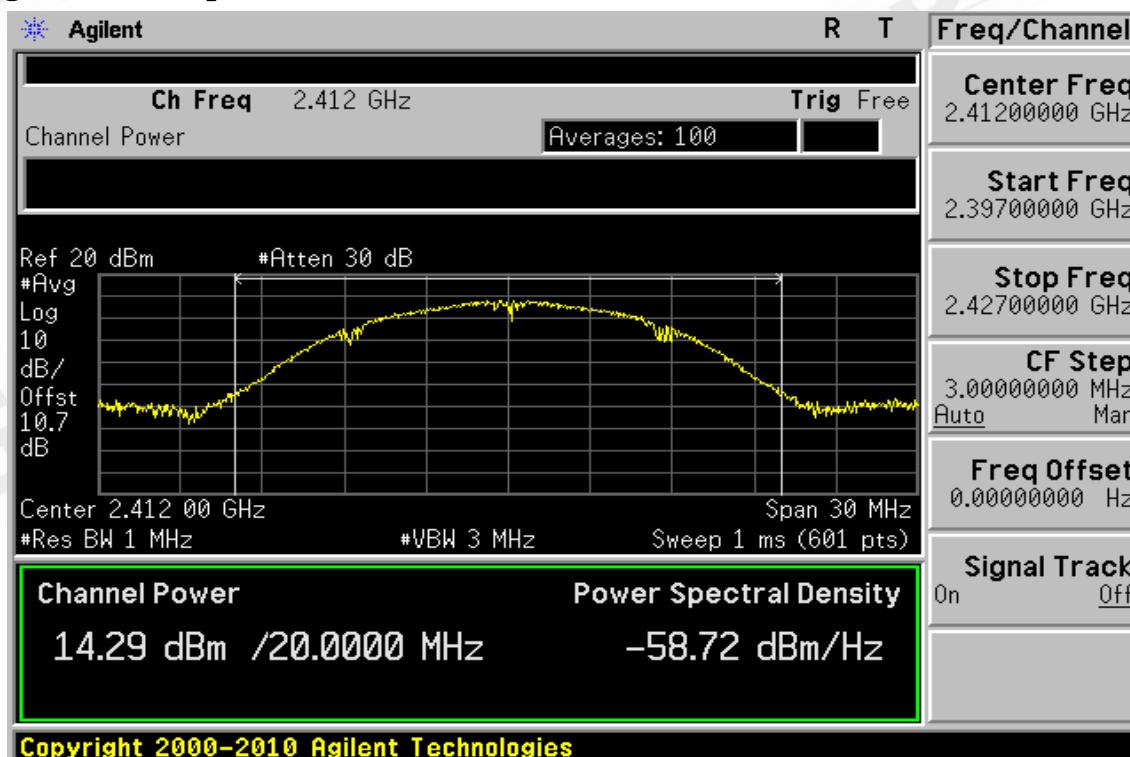
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## Peak Power Output Plot (CH High)

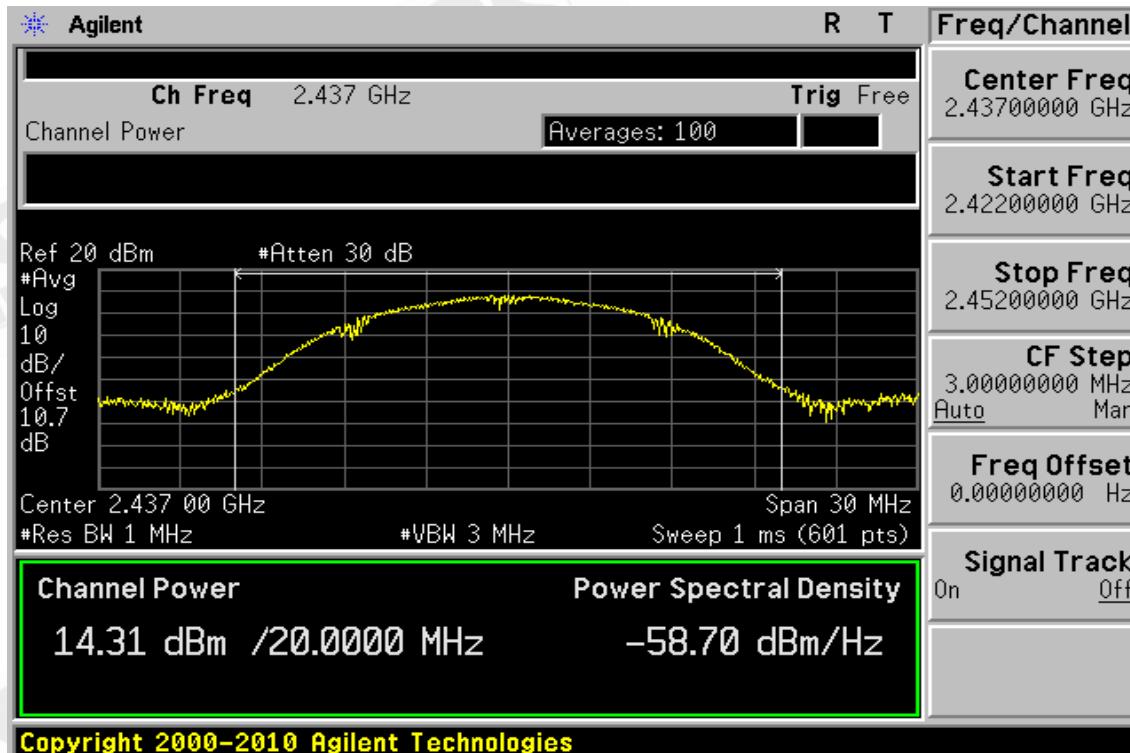
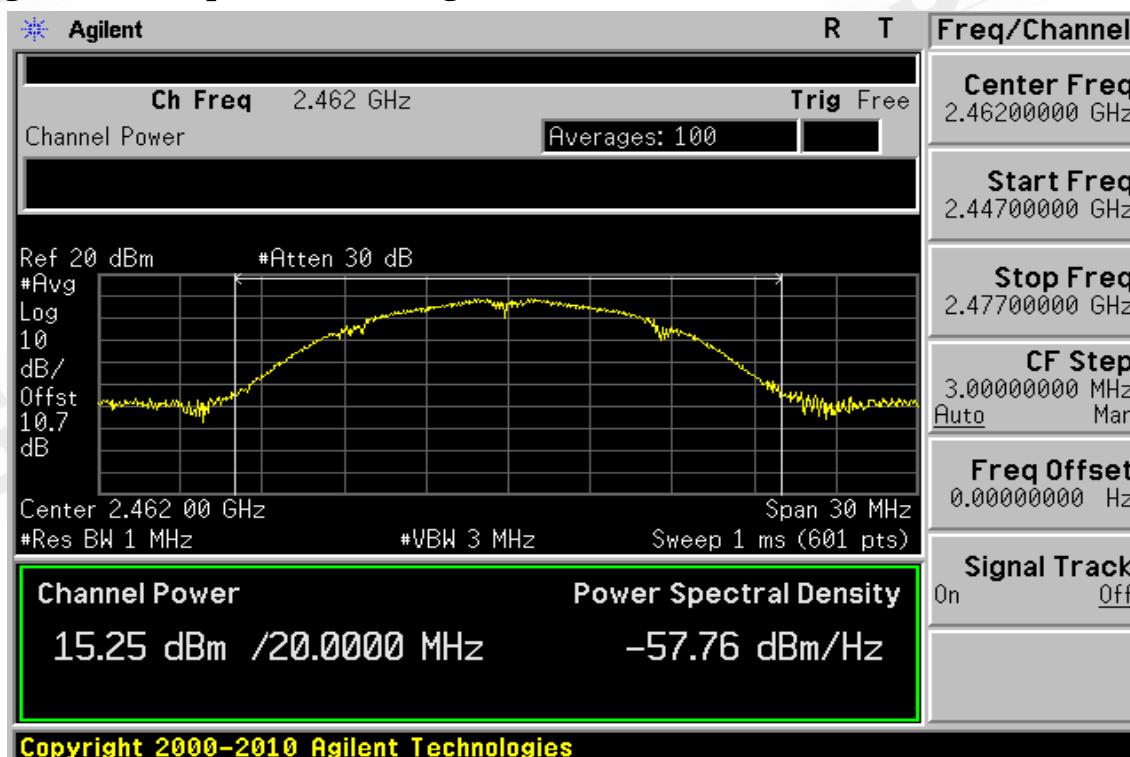


## Average Power Output Plot (CH Low)



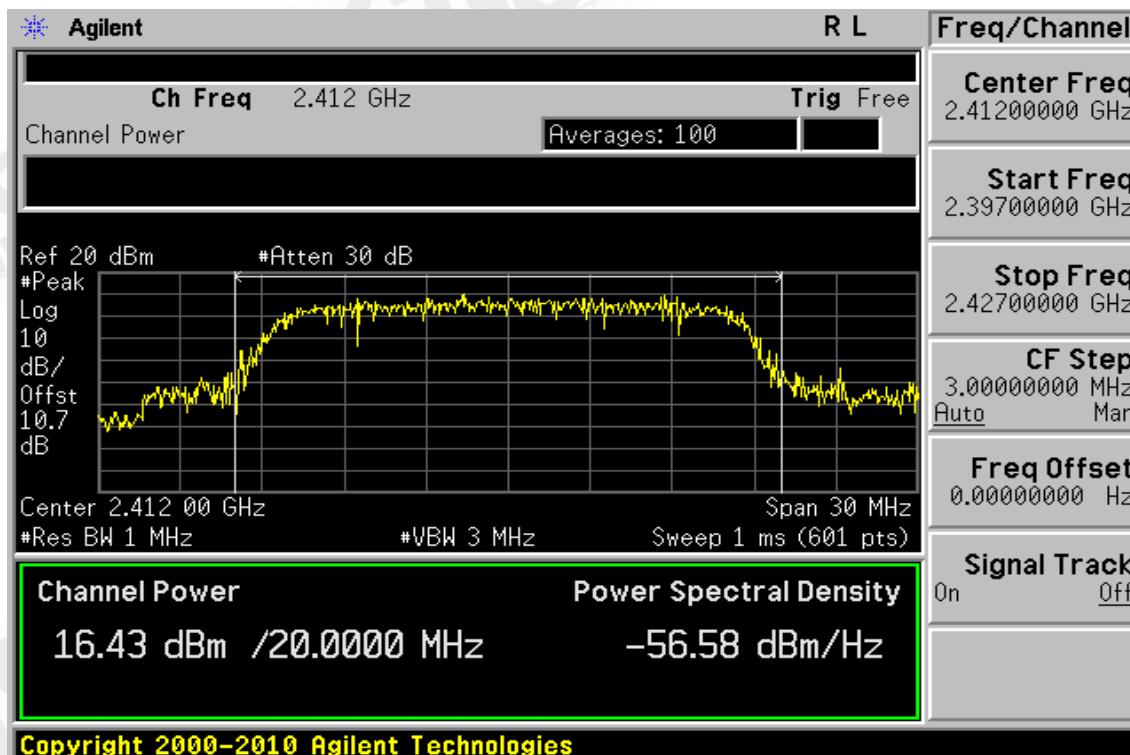
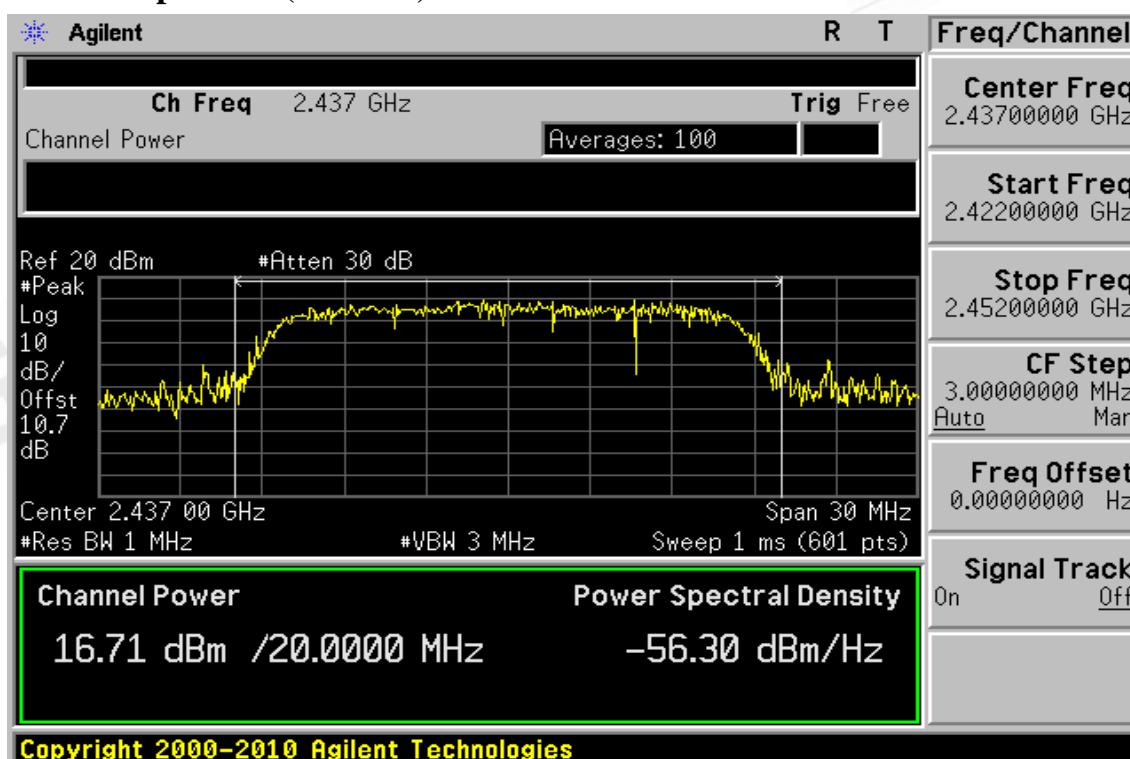
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**Average Power Output Plot (CH Mid)****Average Power Output Plot (CH High)**

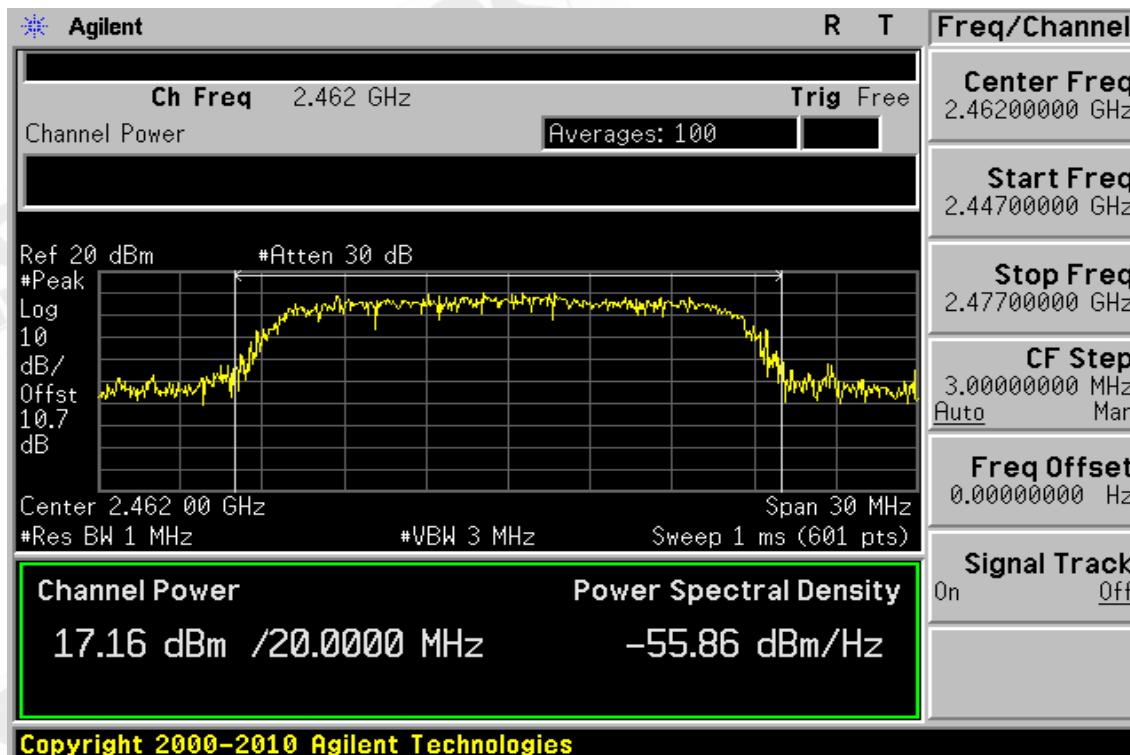
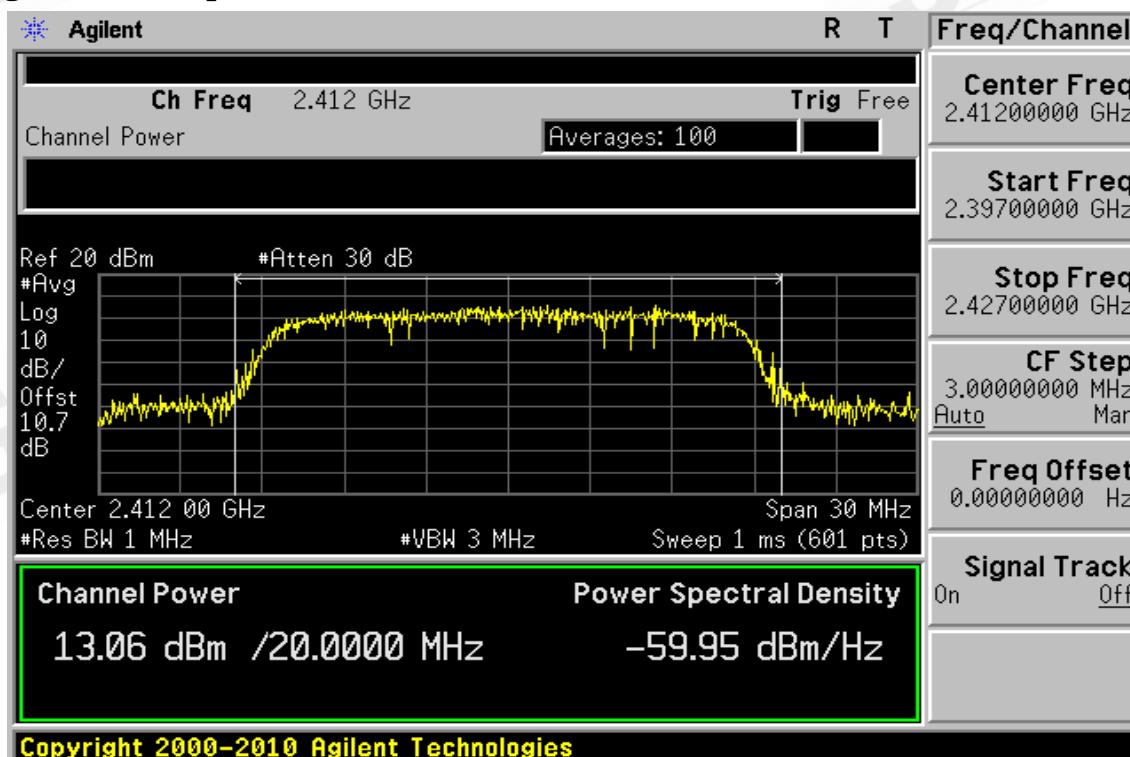
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**802.11g, 6Mbps****Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

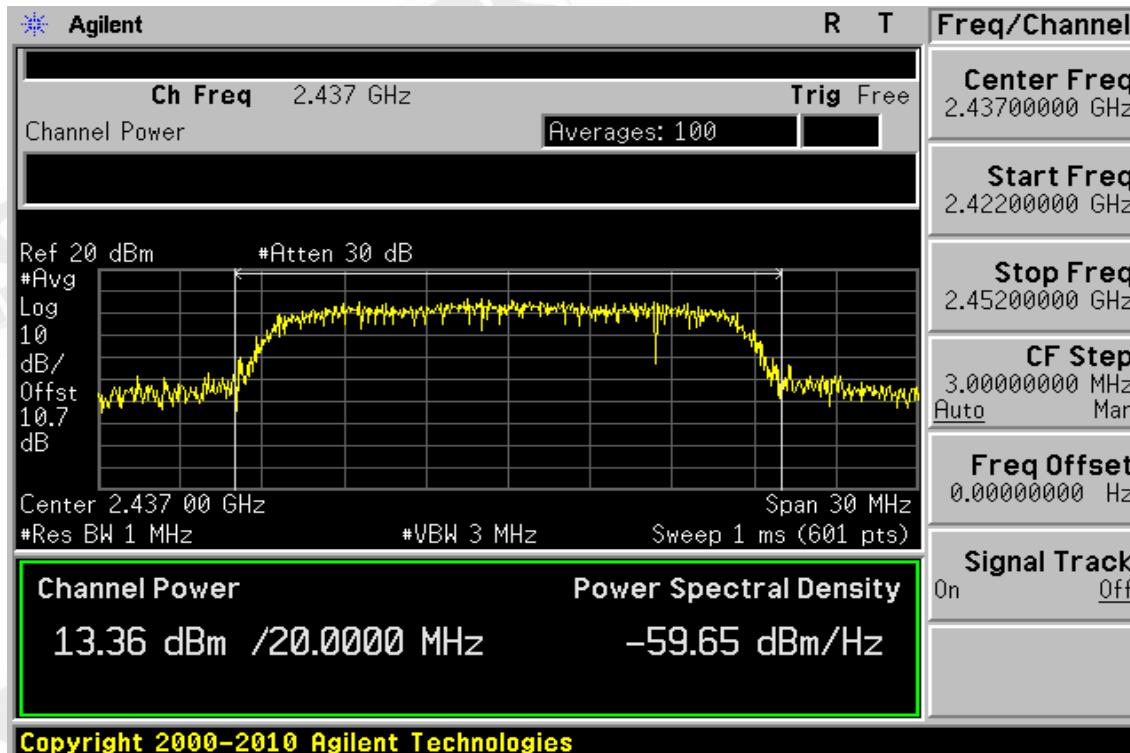
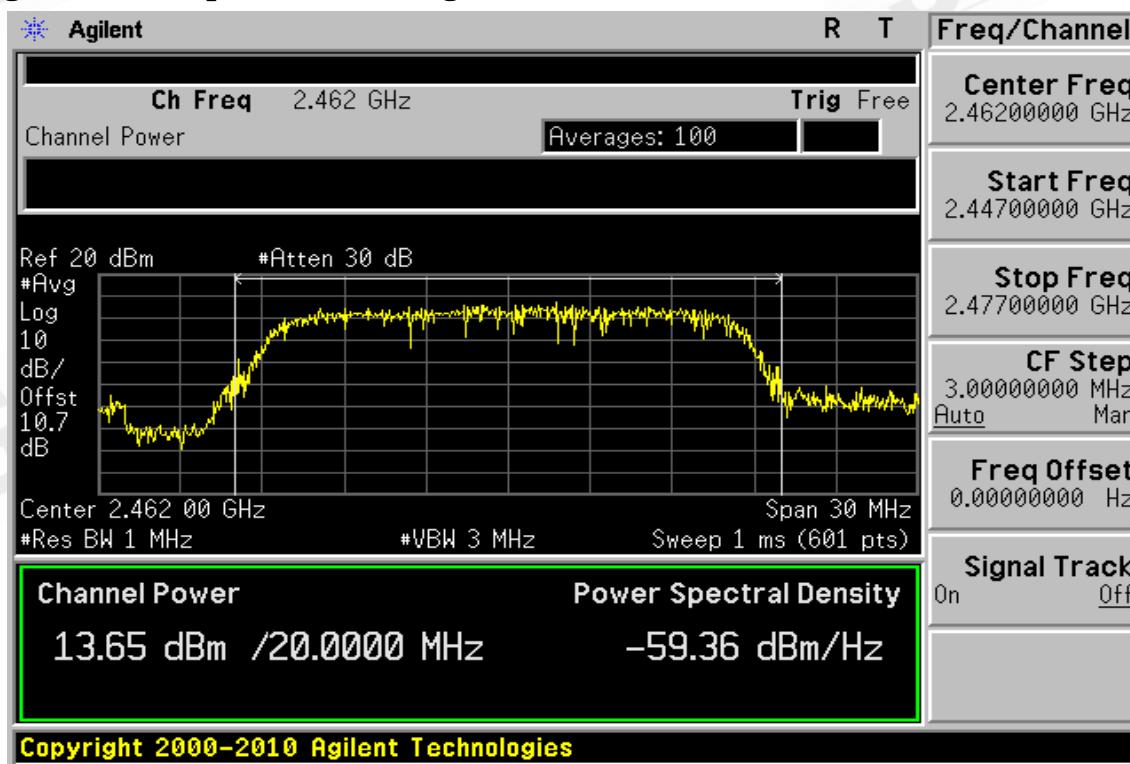
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**Peak Power Output Plot (CH High)****Average Power Output Plot (CH Low)**

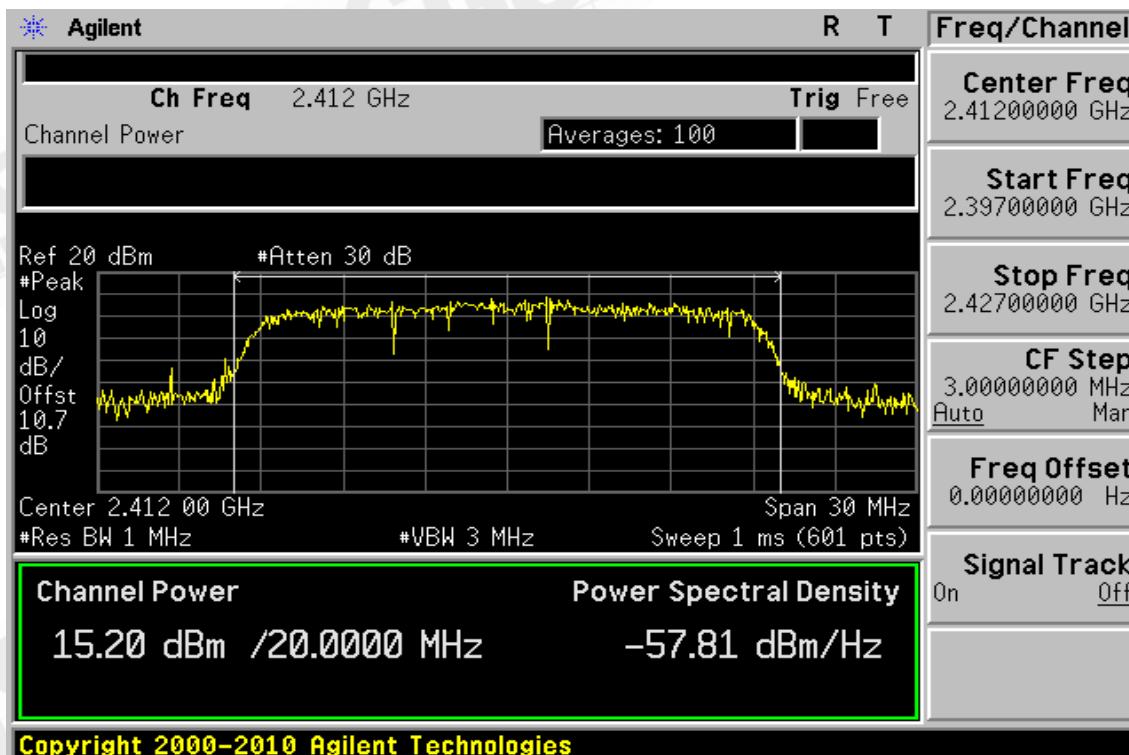
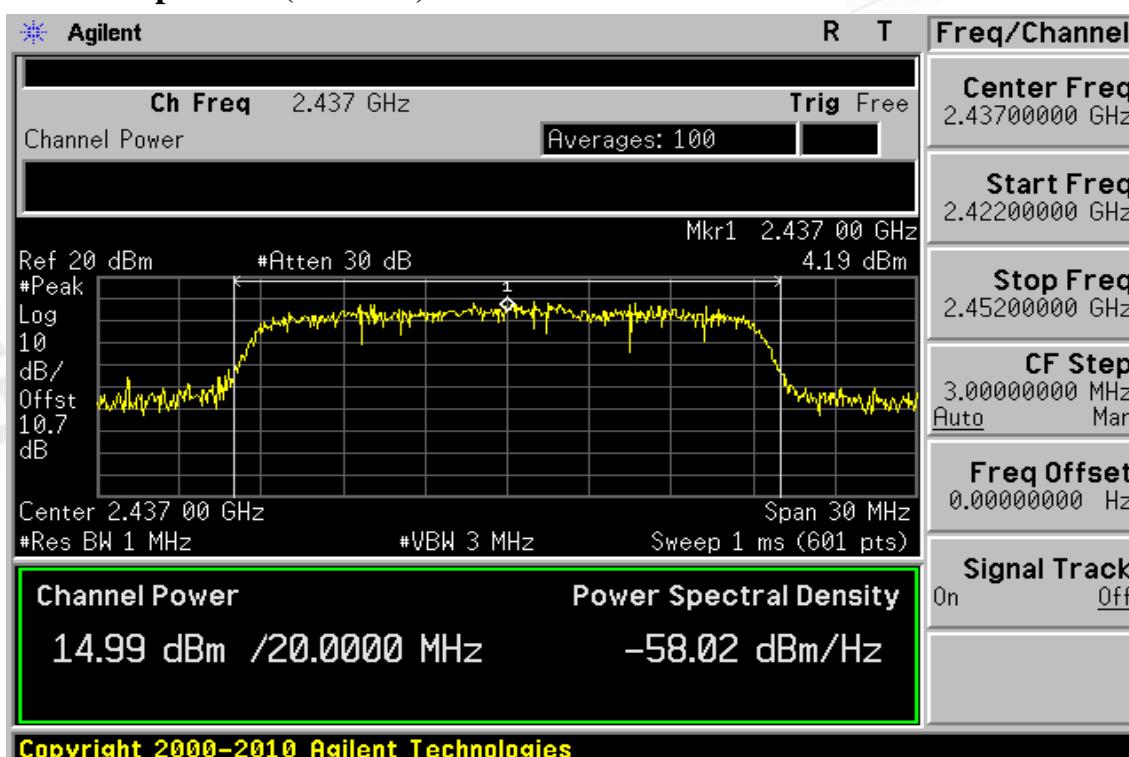
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**Average Power Output Plot (CH Mid)****Average Power Output Plot (CH High)**

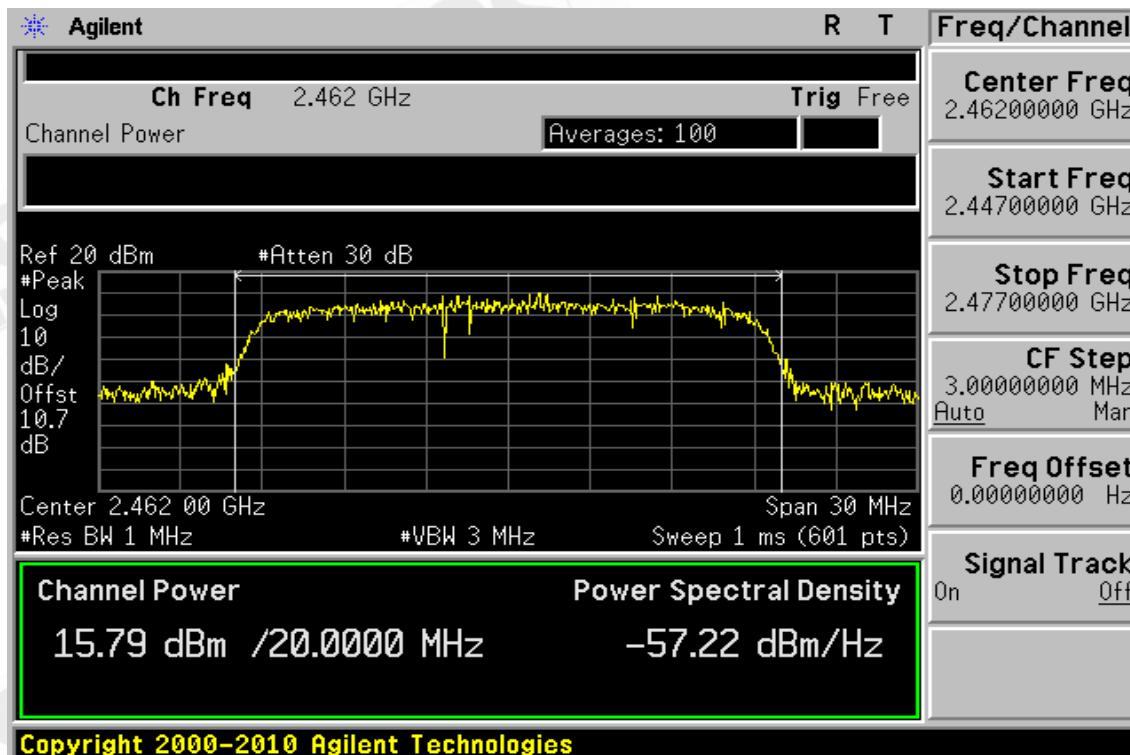
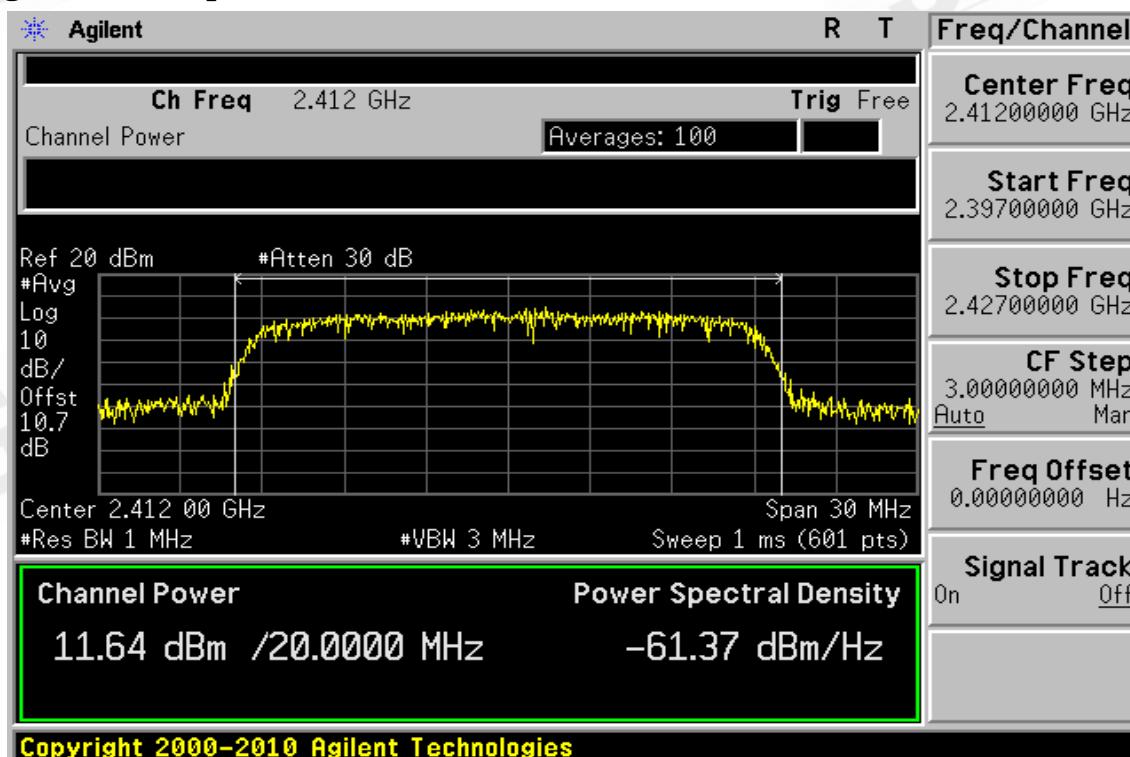
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**802.11n\_20M, 6.5Mbps****Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

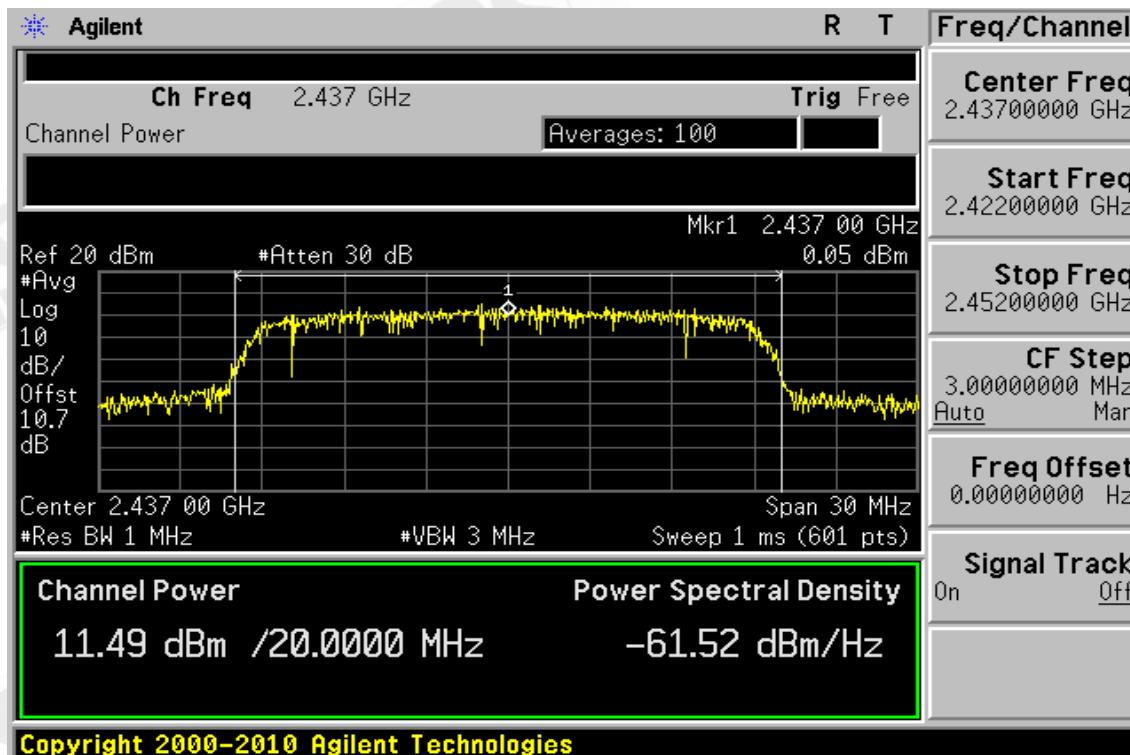
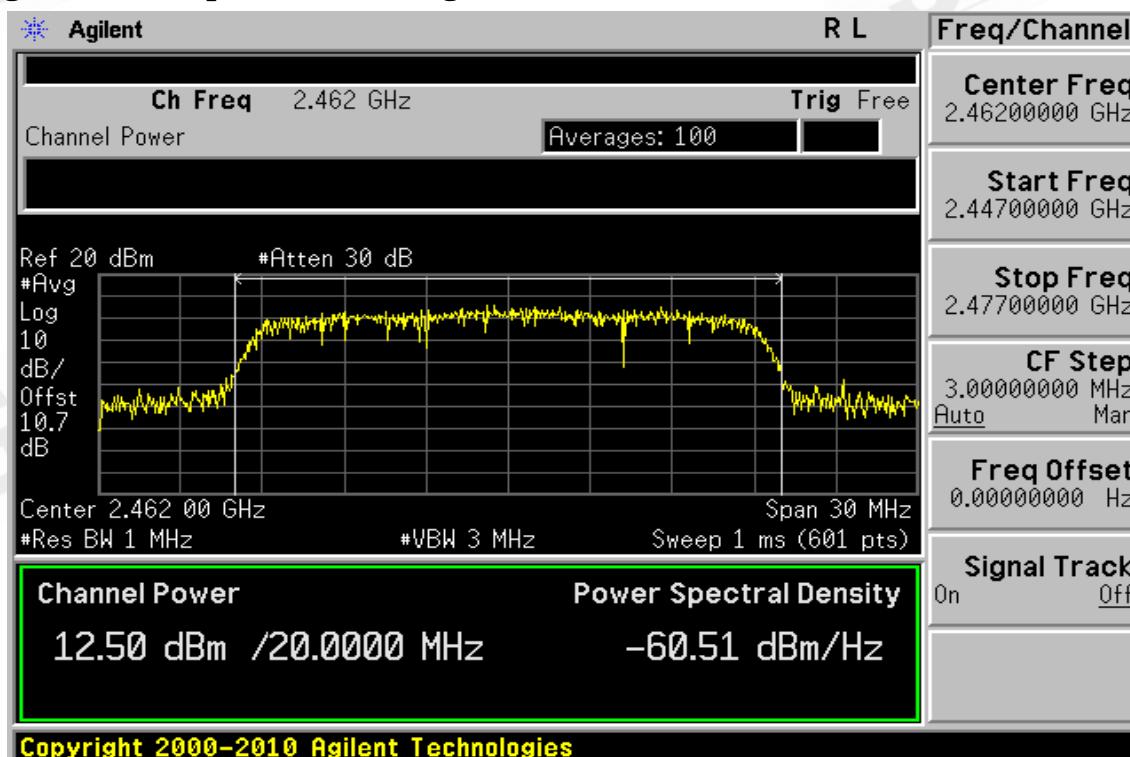
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**Peak Power Output Plot (CH High)****Average Power Output Plot (CH Low)**

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**Average Power Output Plot (CH Mid)****Average Power Output Plot (CH High)**

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## 8 6dB BANDWIDTH

### 8.1 Standard Applicable:

According to §15.247(a)(2), Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

According to RSS 210 issue 8: 2010 Annex 8.2. Systems employing digital modulation techniques (which includes direct sequence) can now be certified under RSS-210 provided they comply with the following requirements: The minimum 6 dB bandwidth shall be at least 500 kHz.

### 8.2 Measurement Equipment Used:

Refer to section 7.2 for details.

### 8.3 Test Set-up:

Refer to section 7.3 for details.

### 8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100KHz, VBW = 3\*RBW, Span = 30MHz-50MHz, Sweep=auto
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured were complete.

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**8.5 Measurement Result:****802.11b**

<b>Frequency (MHz)</b>	<b>Bandwidth (MHz)</b>	<b>Bandwidth (KHz)</b>	<b>Result</b>
2412	7.118	> 500	PASS
2437	7.128	> 500	PASS
2462	7.585	> 500	PASS

**802.11g**

<b>Frequency (MHz)</b>	<b>Bandwidth (MHz)</b>	<b>Bandwidth (KHz)</b>	<b>Result</b>
2412	15.108	> 500	PASS
2437	14.448	> 500	PASS
2462	14.894	> 500	PASS

**802.11n\_20M**

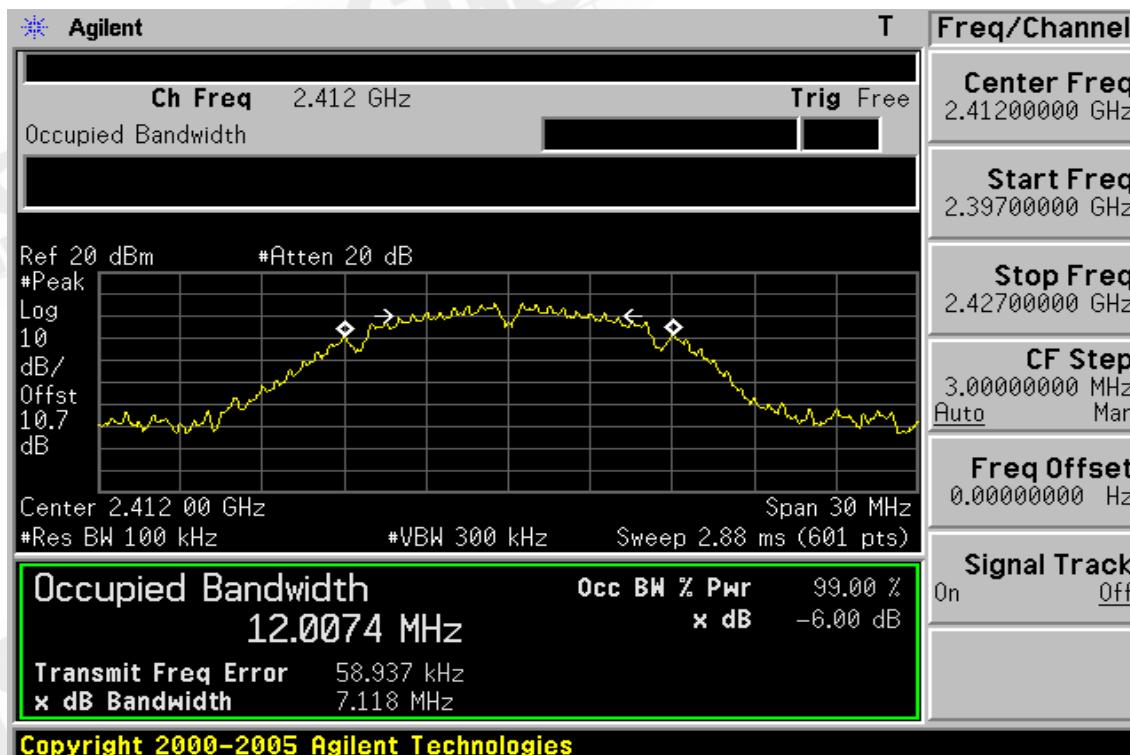
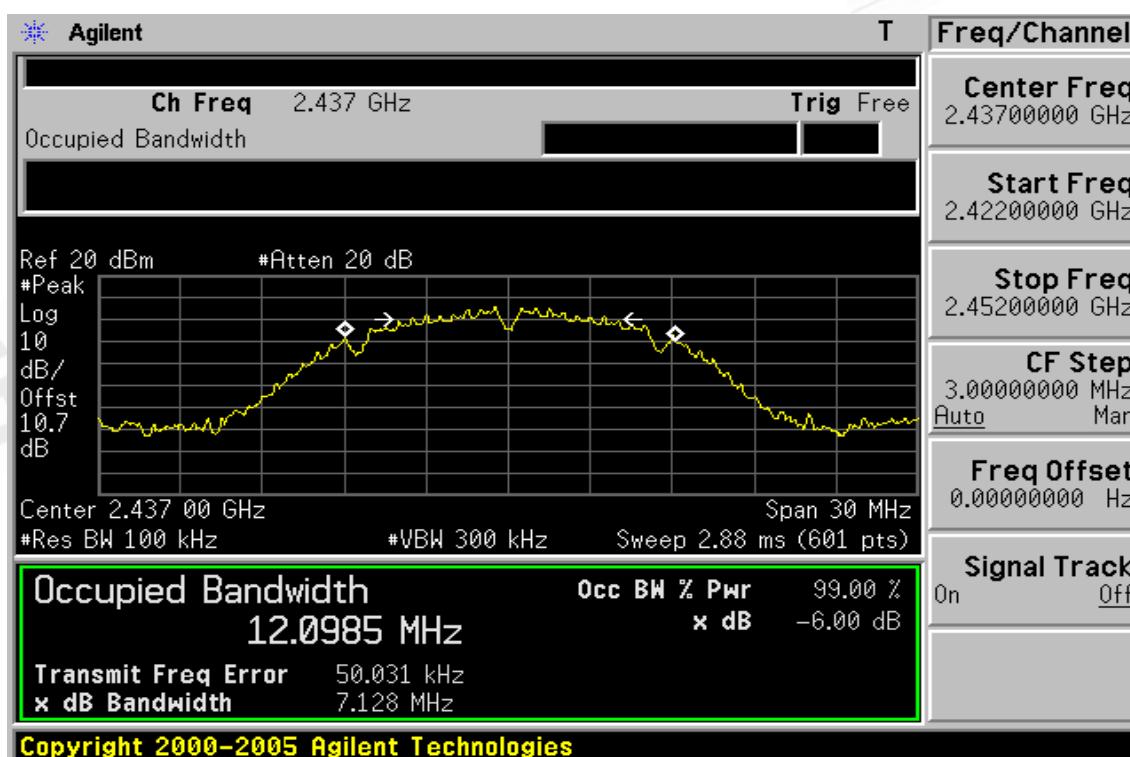
<b>Frequency (MHz)</b>	<b>Bandwidth (MHz)</b>	<b>Bandwidth (KHz)</b>	<b>Result</b>
2412	17.194	> 500	PASS
2437	16.482	> 500	PASS
2462	17.119	> 500	PASS

*\*Offset 10.7dB*

Note: Refer to next page for plots.

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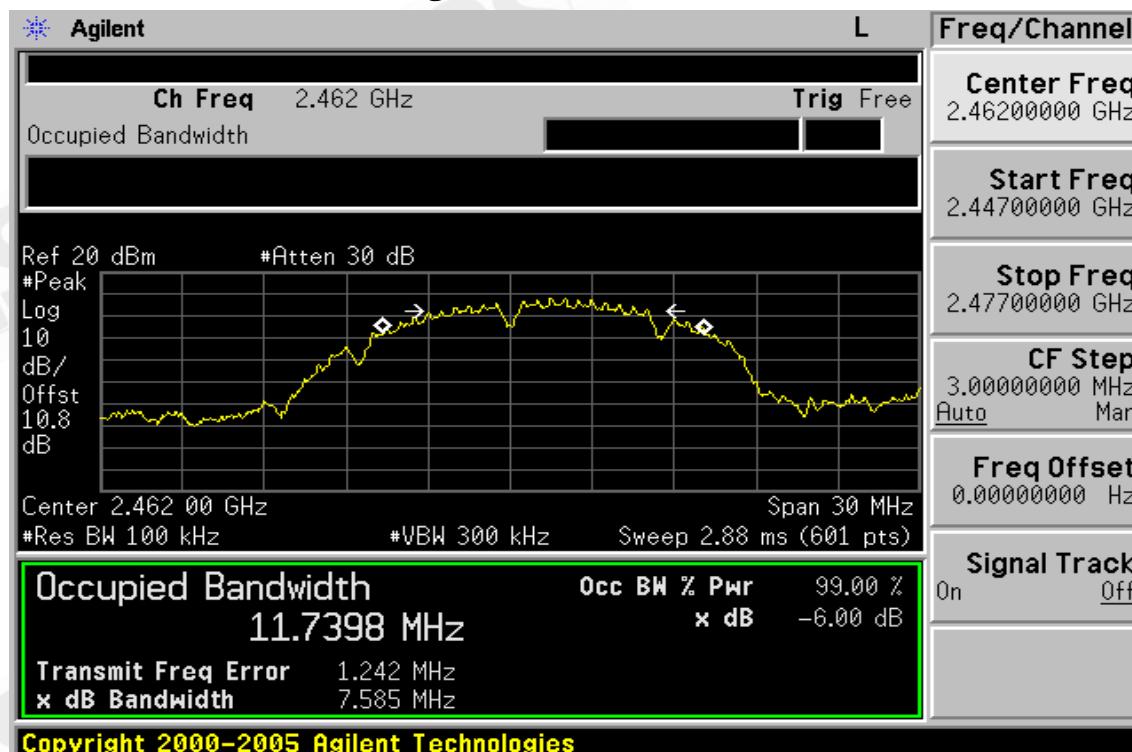
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**802.11b****6dB Band Width Test Data CH-Low****6dB Band Width Test Data CH-Mid**

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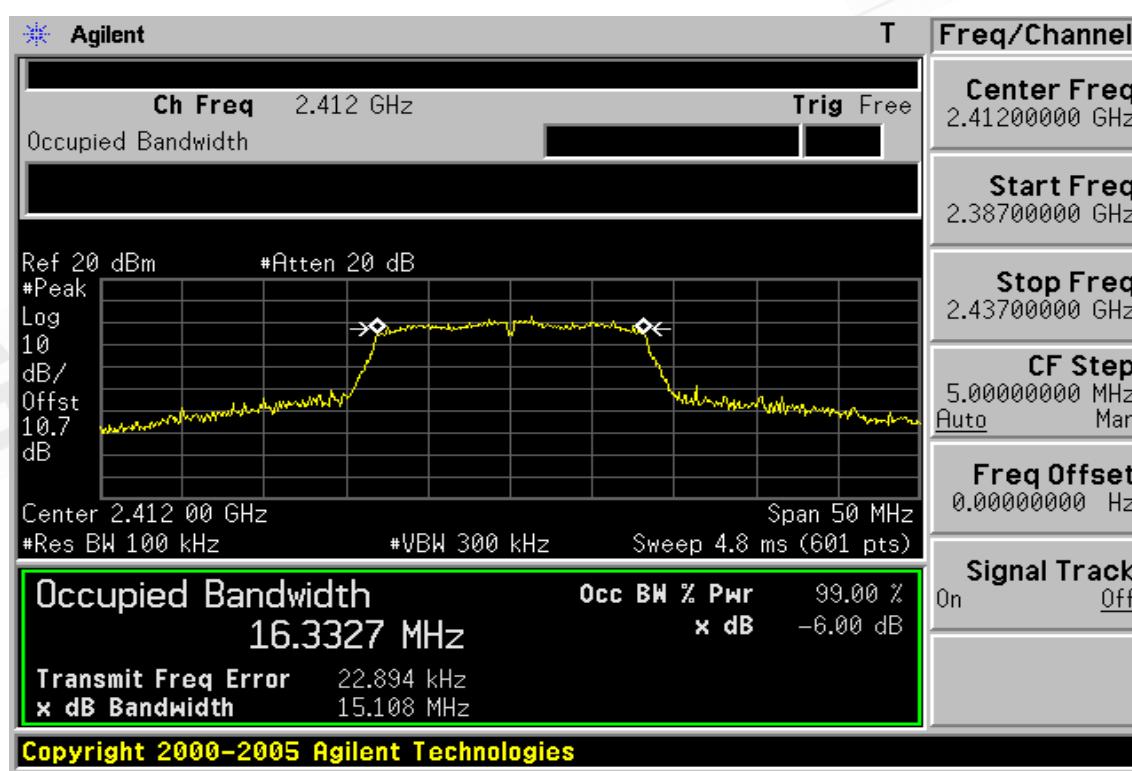
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## 6dB Band Width Test Data CH-High



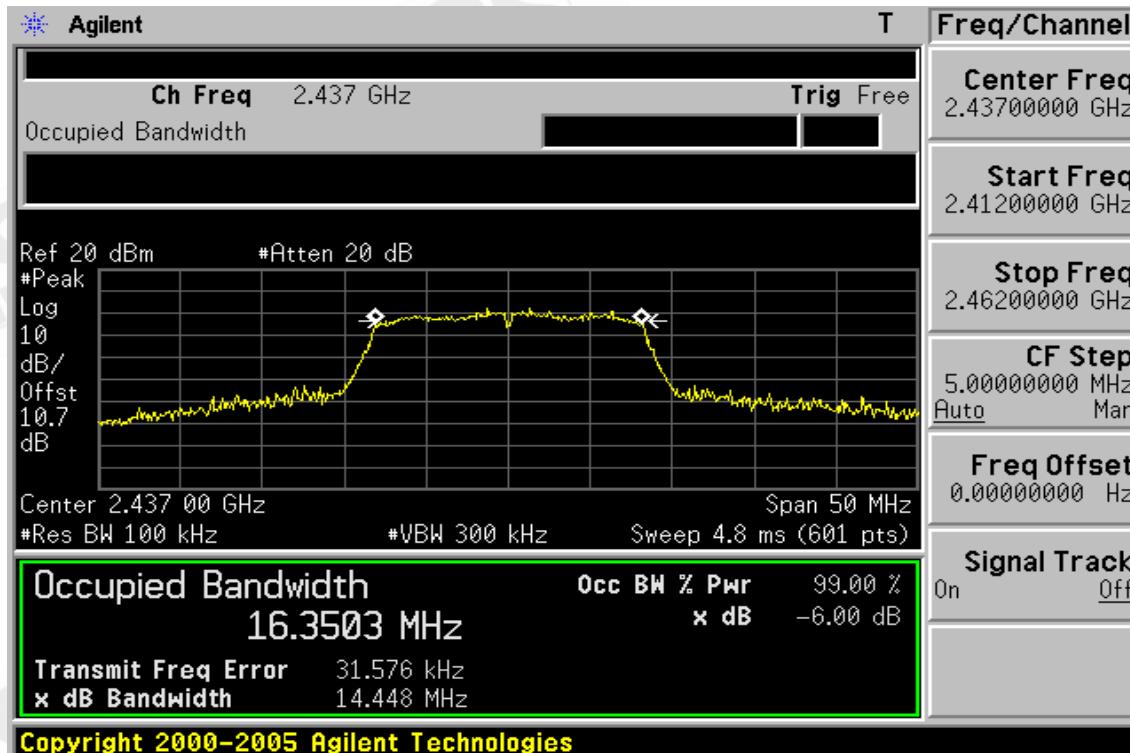
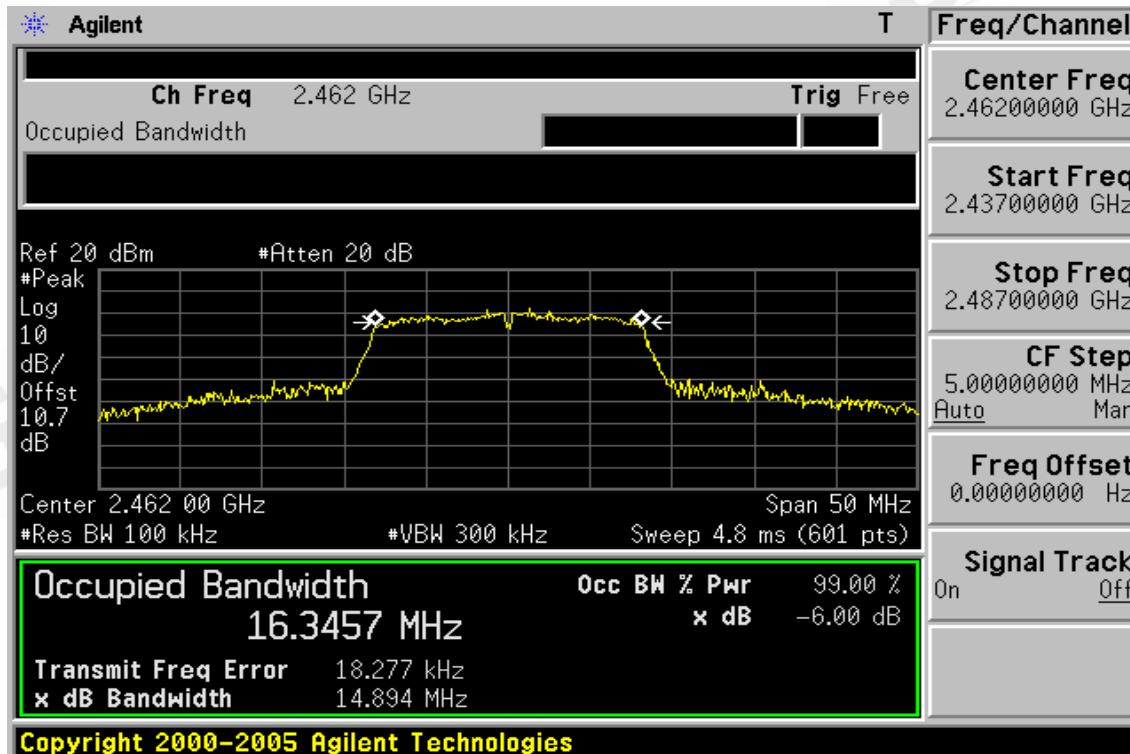
## 802.11g

## 6dB Band Width Test Data CH-Low



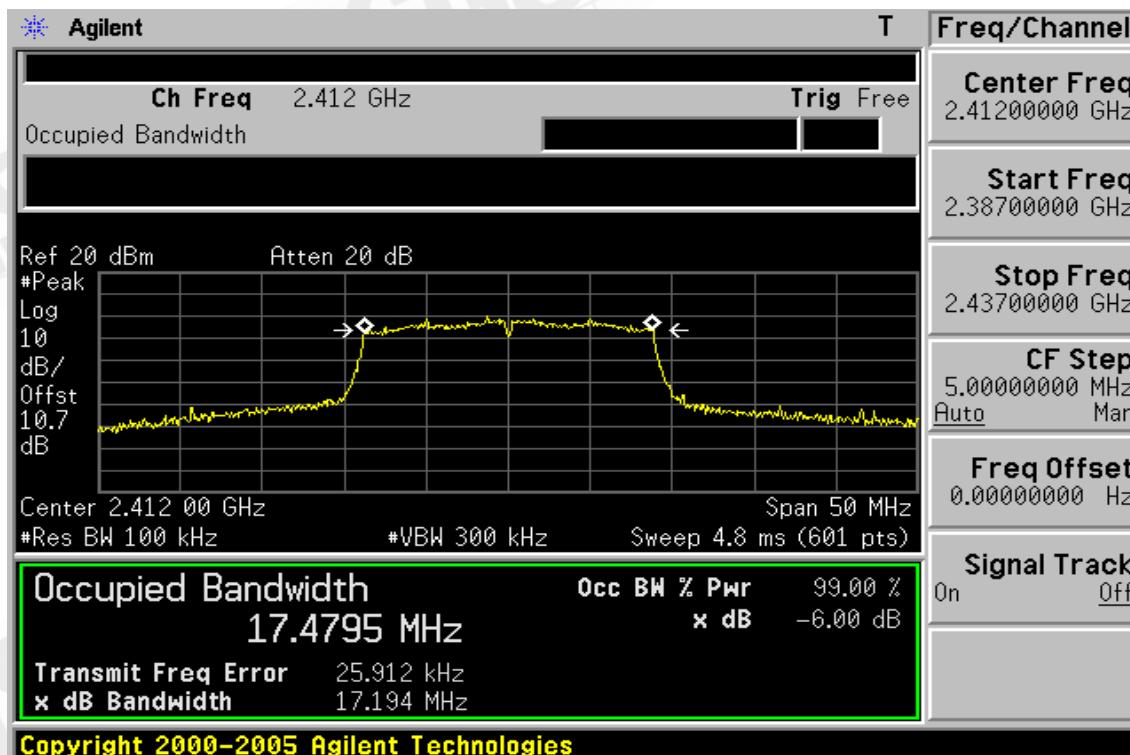
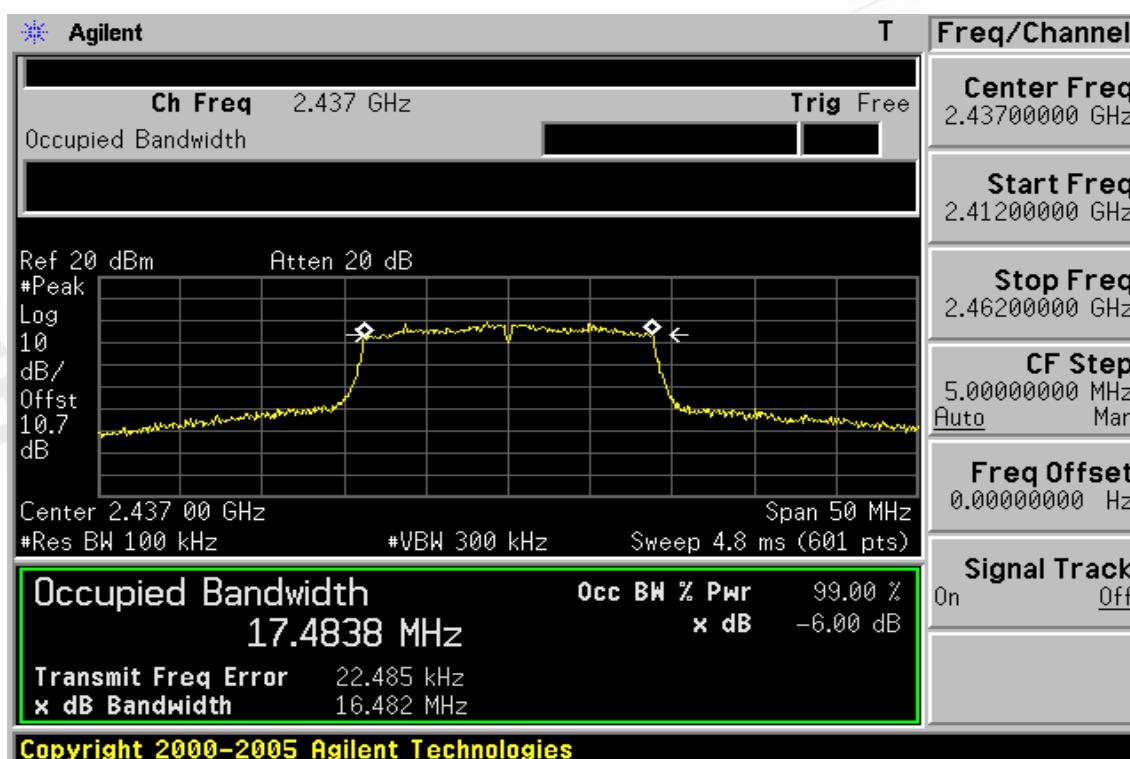
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**6dB Band Width Test Data CH-Mid****6dB Band Width Test Data CH-High**

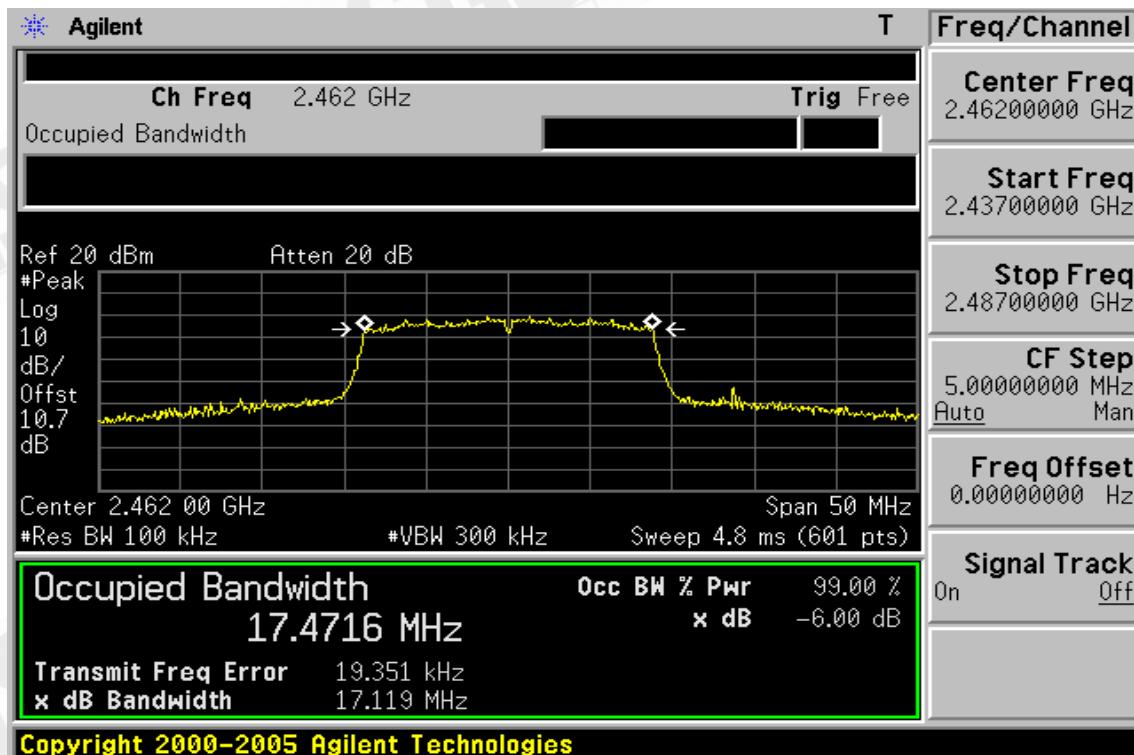
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**802.11n\_20M****6dB Band Width Test Data CH-Low****6dB Band Width Test Data CH-Mid**

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**6dB Band Width Test Data CH-High**

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## 9 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

### 9.1 Standard Applicable:

According to §15.247(d), in any 100 KHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

According to RSS-Gen §7.2.5 and RSS-210 issue 8, §A2.9, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 5 and 6 is not required. In addition, radiated emissions which fall in the restricted bands of Table 3 must also comply with the radiated emission limits specified in Tables 5 and 6 of RSS-GEN.

### 9.2 Measurement Equipment Used:

#### 9.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

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**9.2.2 Radiated emission:**

<b>966 Chamber</b>					
<b>EQUIPMENT TYPE</b>	<b>MFR</b>	<b>MODEL NUMBER</b>	<b>SERIAL NUMBER</b>	<b>LAST CAL.</b>	<b>CAL DUE.</b>
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/15/2011	02/14/2013
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2012	01/03/2013
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2012	01/03/2013
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	02/28/2012	02/28/2013
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2012	02/27/2013
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/04/2012	01/03/2013
3m Site NSA	SGS	966 chamber	N/A	07/15/2011	07/14/2012

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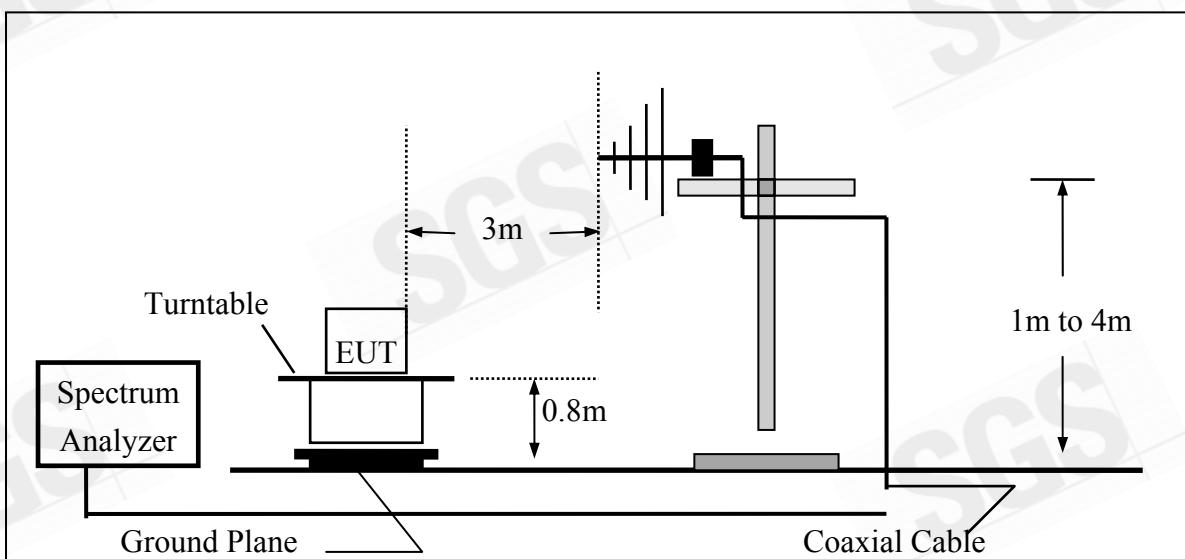
### 9.3 Test SET-UP:

#### 9.3.1 Conducted Emission at antenna port:

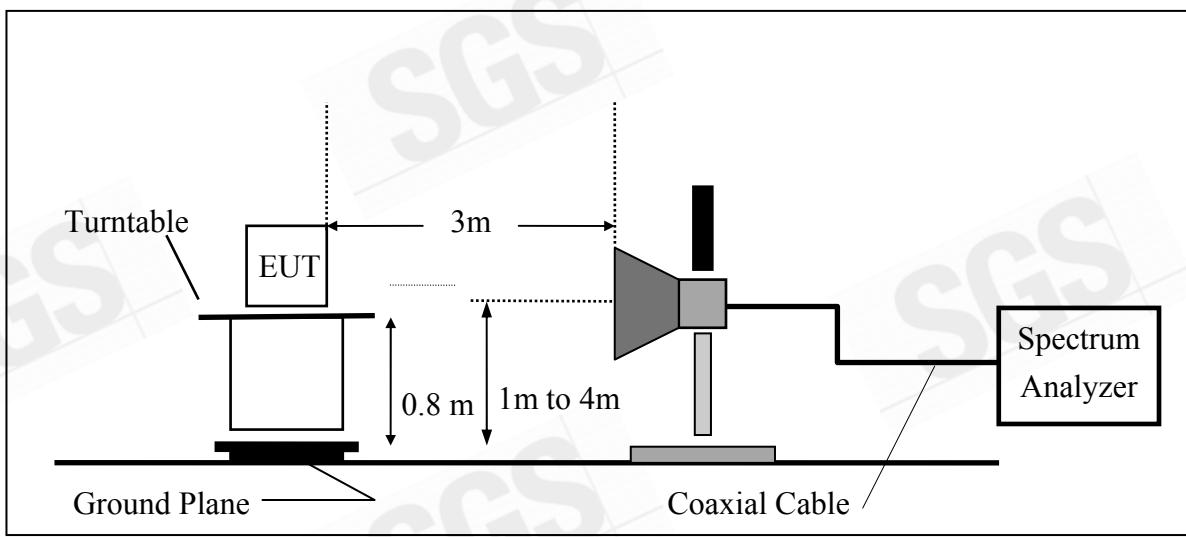
Refer to section 7.3 for details.

#### 9.3.2 Radiated emission:

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



##### (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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#### 9.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as  $RBW = 1 \text{ MHz}$ ,  $VBW \geq 3 \text{ MHz}$
5. Ensure that the number of measurement points in the sweep  $\geq 2 \times (\text{span}/RBW)$ .
6. Set sweep time = auto couple
7. Detector = sample.
8. Employ trace averaging over a minimum of 100 traces.
9. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
10. Repeat above procedures until all frequency measured were complete.

#### 9.5 The Derivation of Limit of Compliance to Unwanted Emissions into Restricted Frequency Bands

EIRP = the equivalent isotropic radiated power in dBm,

E = electric field strength in  $\text{dB}\mu\text{V}/\text{m}$ ,

d = measurement distance in meters.

$$\text{EIRP} = \text{E} + 20\log(\text{d}) - 104.8$$

Average:  $54 + 20\log(3) - 104.8 = -41.3$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

#### 9.6 Measurement Result:

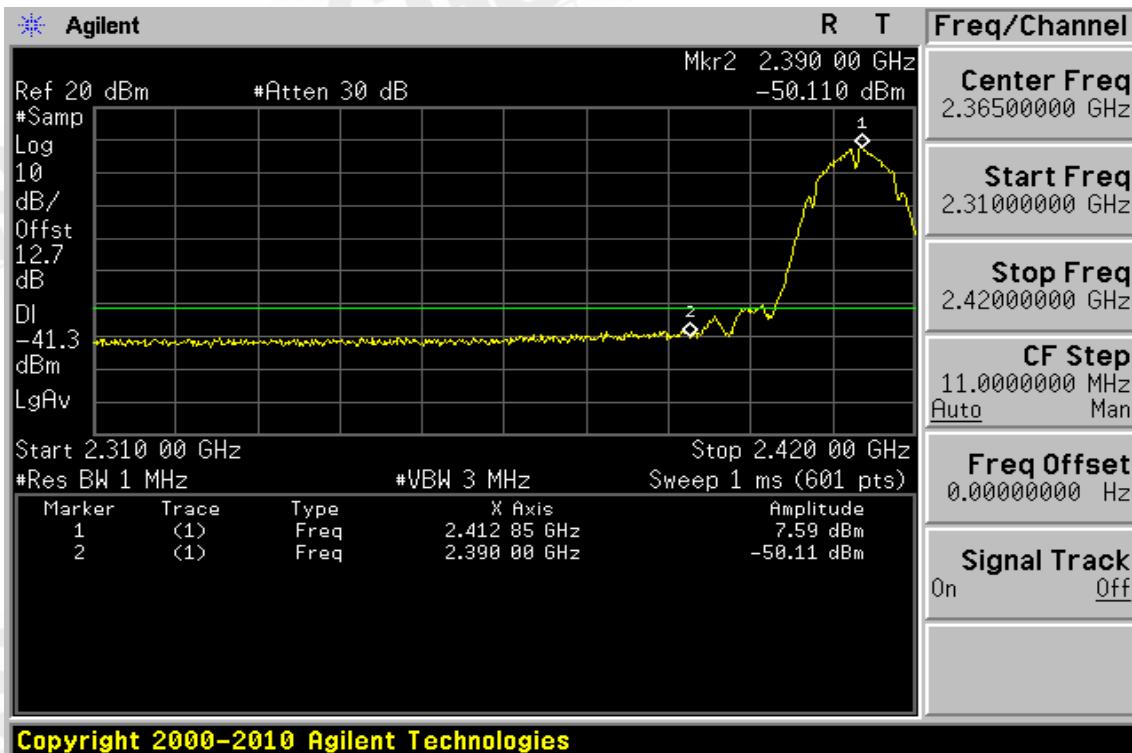
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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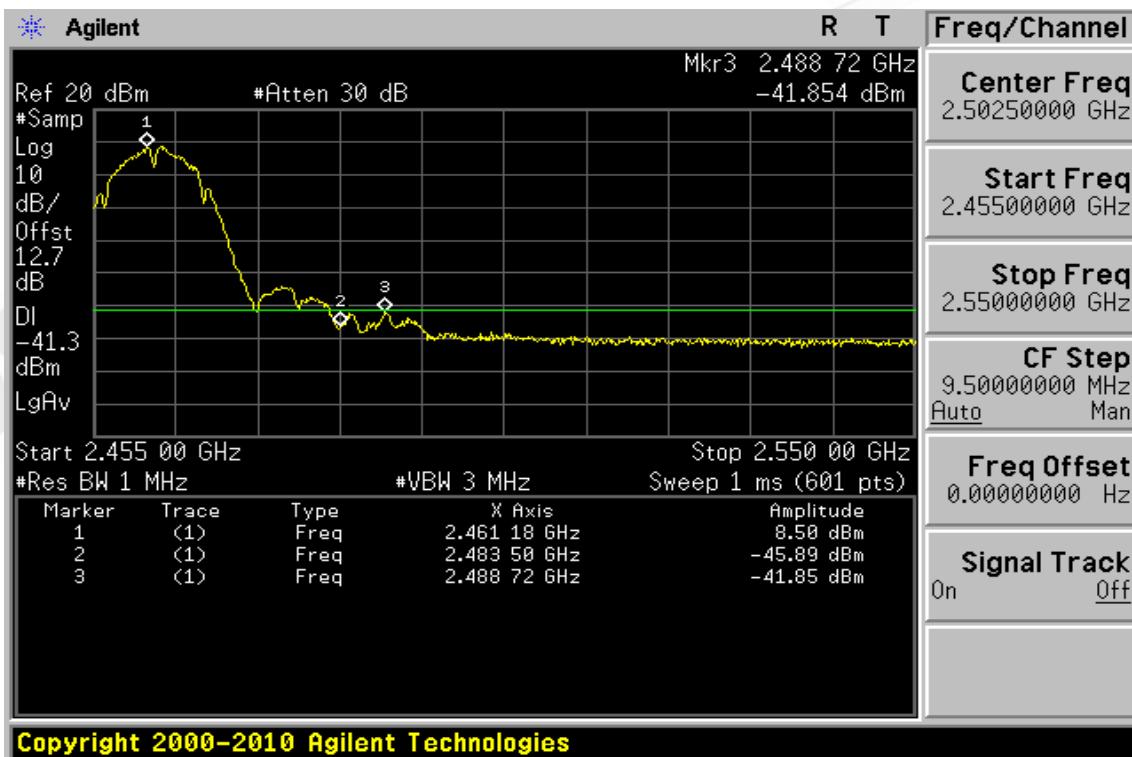
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## 802.11b

### Band Edges Test Data CH-Low



### Band Edges Test Data CH-High

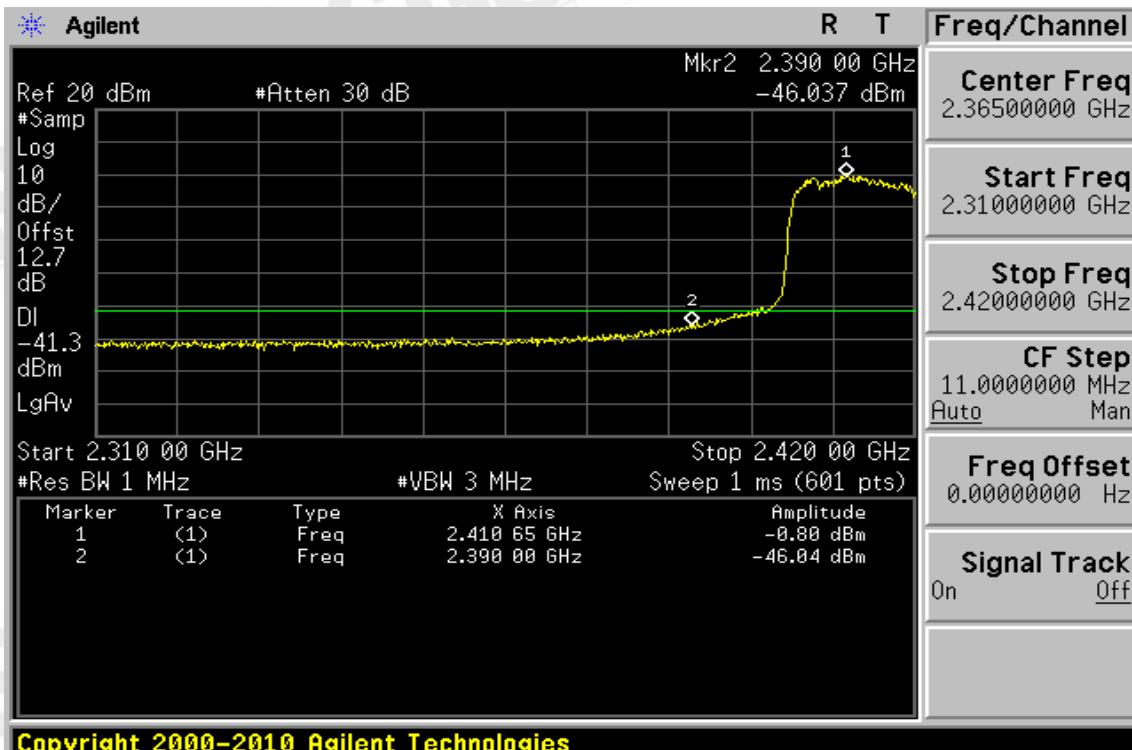


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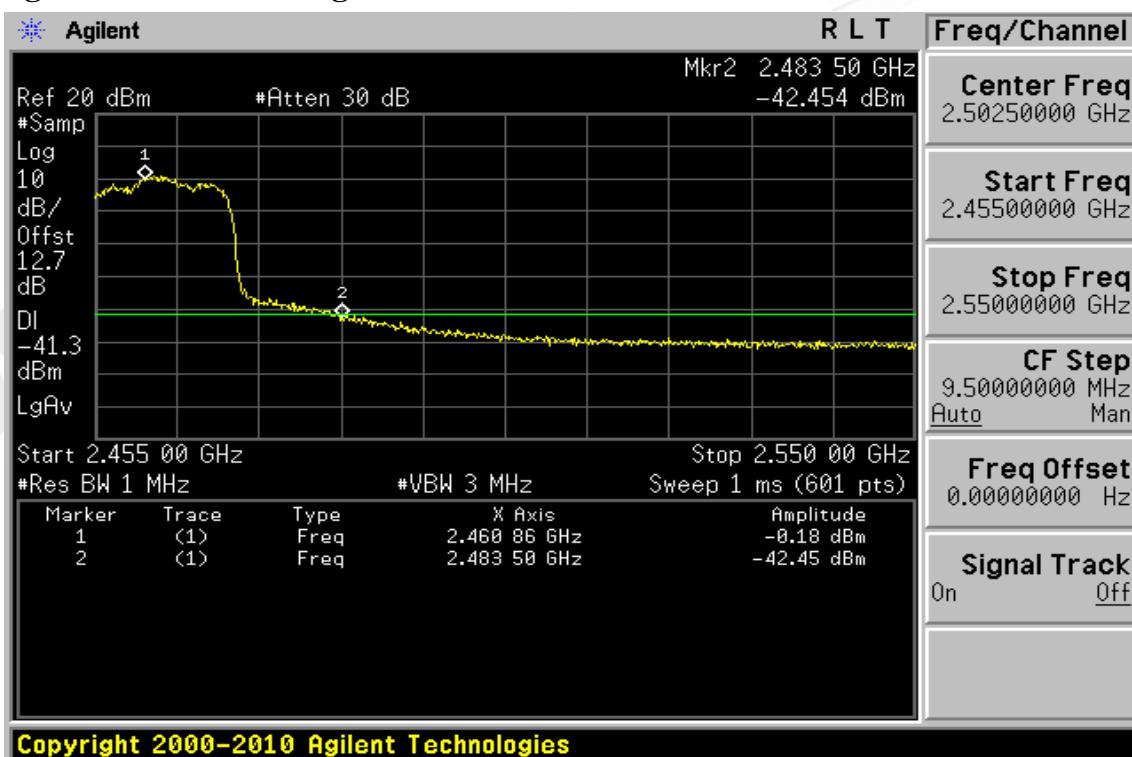
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## 802.11g

### Band Edges Test Data CH-Low



### Band Edges Test Data CH-High

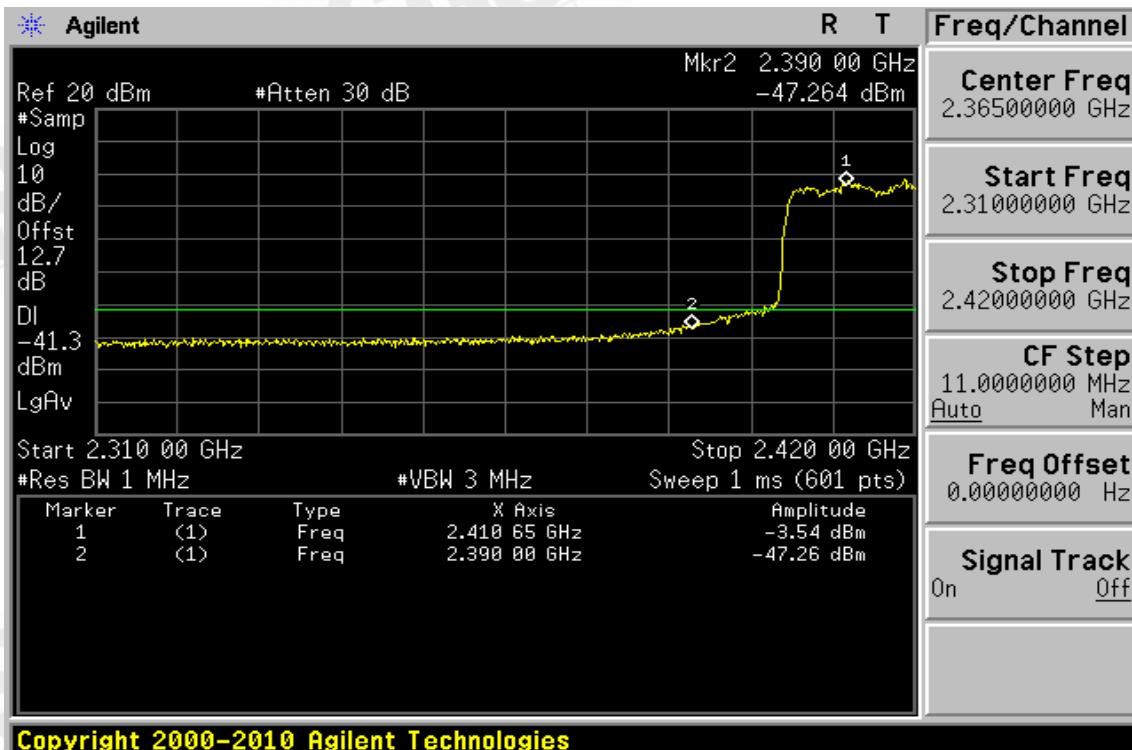


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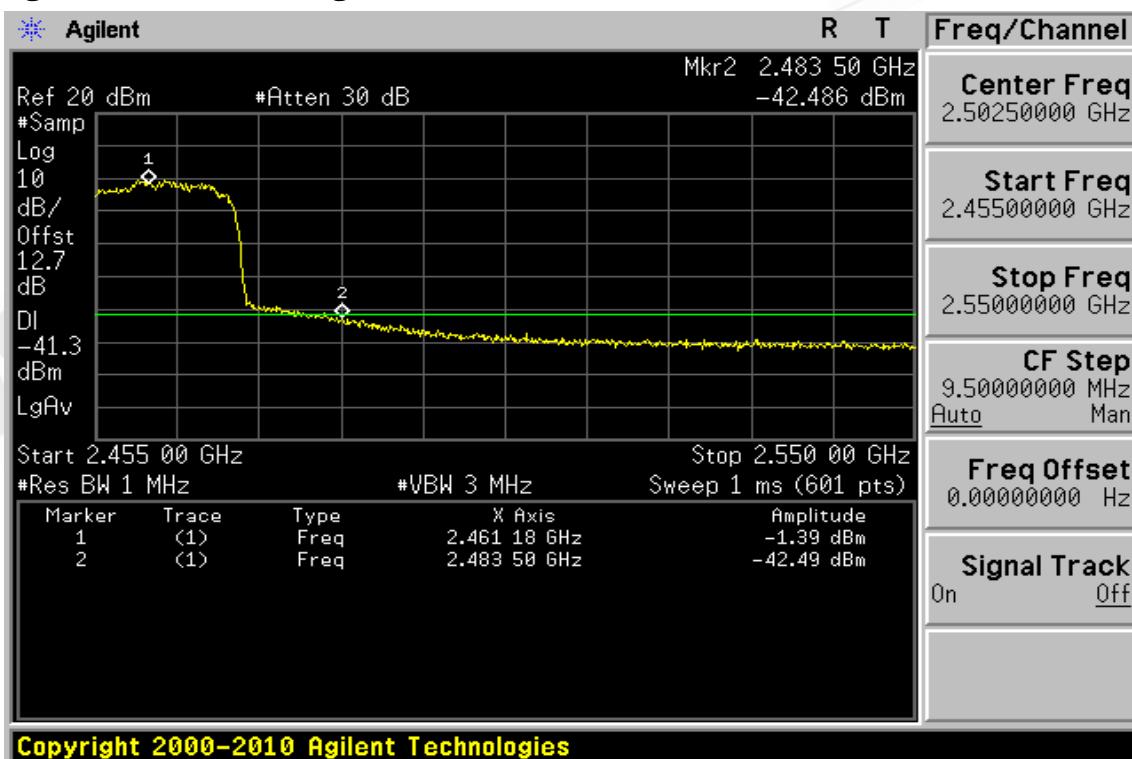
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## 802.11n\_20M

### Band Edges Test Data CH-Low



### Band Edges Test Data CH-High



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## 10 SPURIOUS RADIATED EMISSION TEST

### 10.1 Standard Applicable

According to §15.247(c), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

According to RSS-Gen §7.2.5 and RSS-210 issue 8,§A2.9, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 5 and 6 is not required. In addition, radiated emissions which fall in the restricted bands of Table 3 must also comply with the radiated emission limits specified in Tables 5 and 6 of RSS-GEN.

### 10.2 Measurement Equipment Used:

#### 10.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

#### 10.2.2 Radiated emission:

Refer to section 9.2.2 for details.

### 10.3 Test SET-UP:

#### 10.3.1 Conducted Emission at antenna port:

Refer to section 7.3 for details.

#### 10.3.2 Radiated emission:

Refer to section 9.3.2 for details.

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## 10.4 Measurement Procedure:

### Radiated Emission:

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
4. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all frequency measured were complete.

### Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 100K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz
4. Via Software, combine 5 spans of frequency range into one plot

## 10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

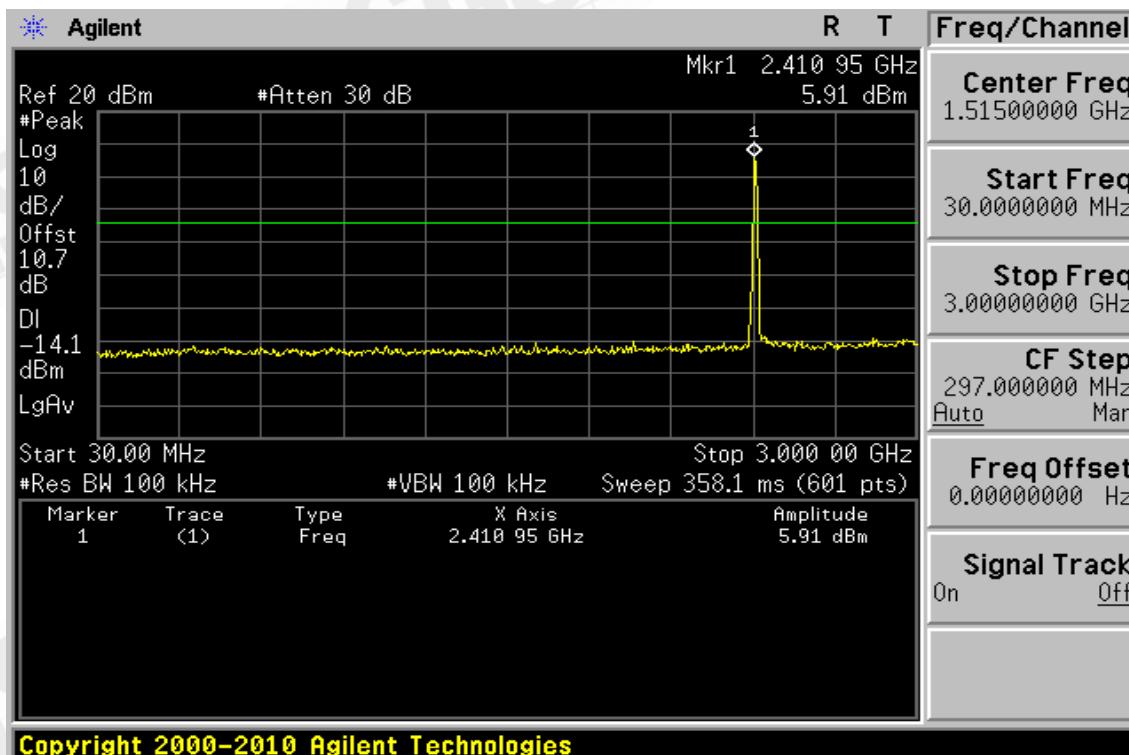
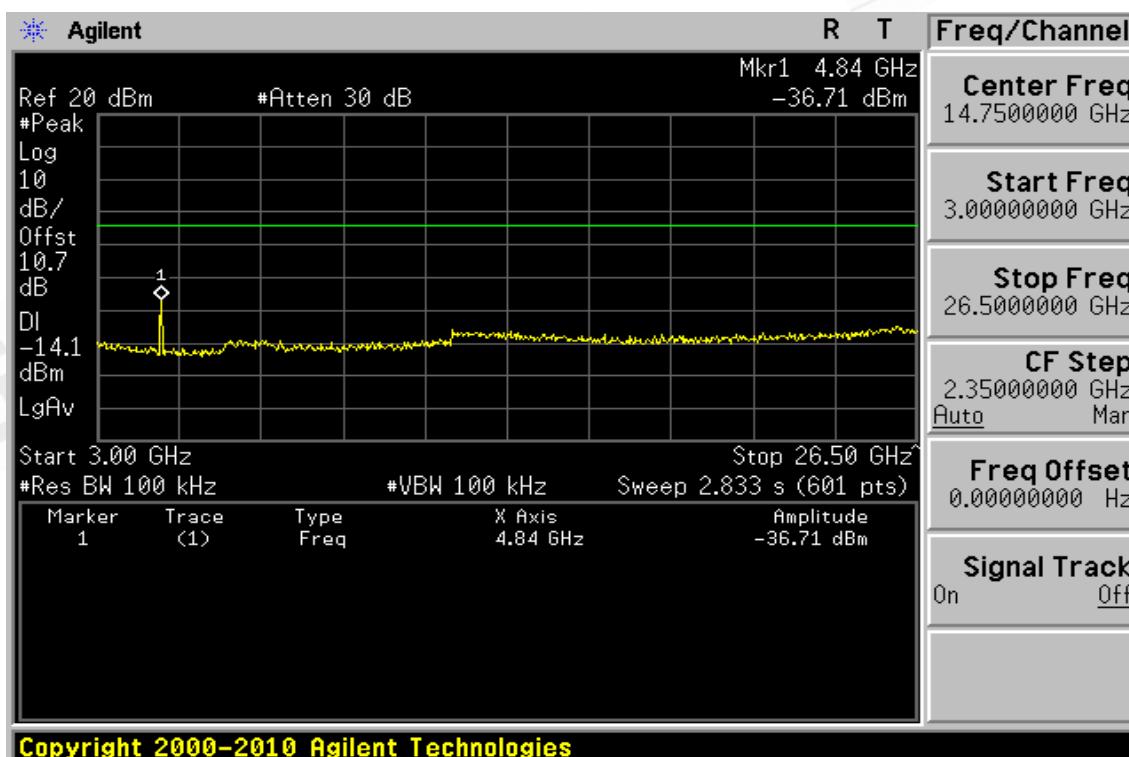
Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

## 10.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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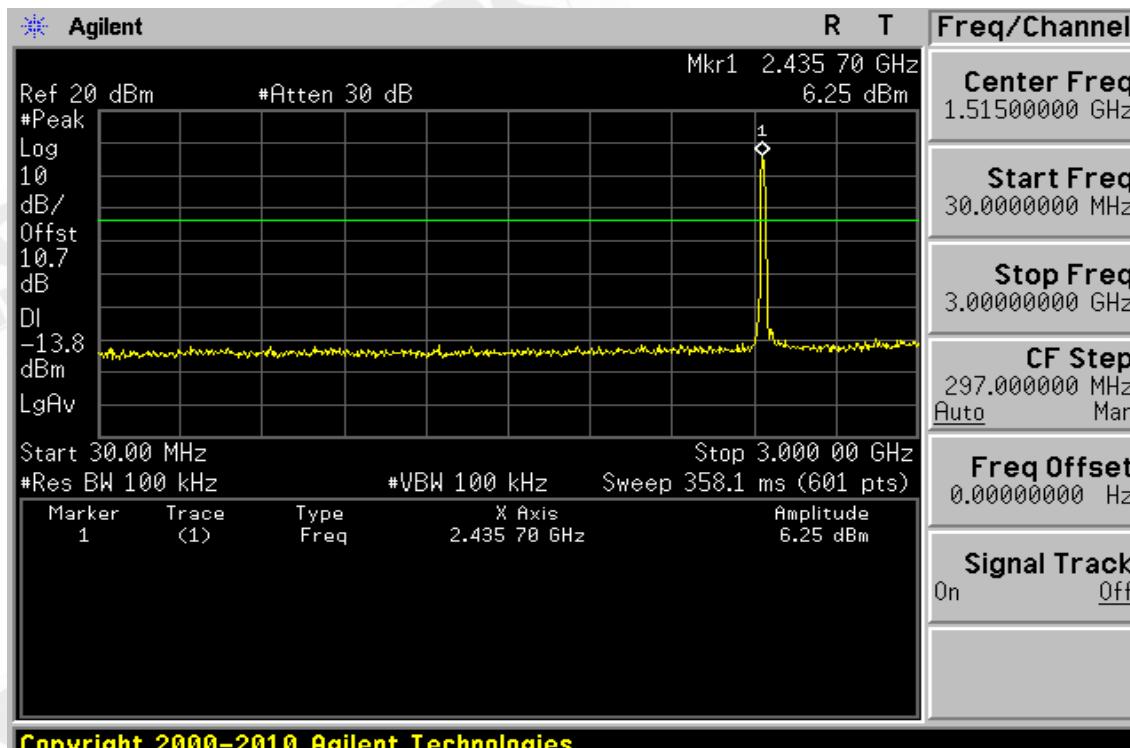
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**Conducted Spurious Emission Measurement Result (802.11b)****Ch Low 30MHz – 3GHz****Ch Low 3GHz – 26.5GHz**

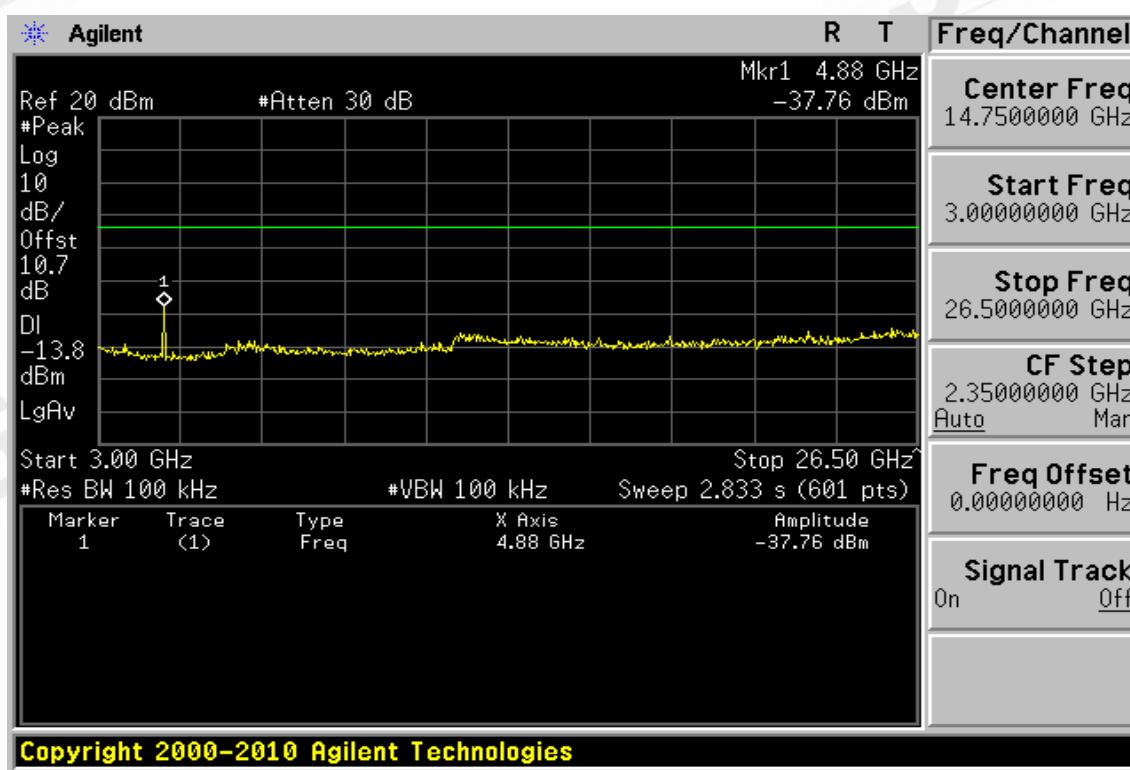
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### Ch Mid 30MHz – 3GHz

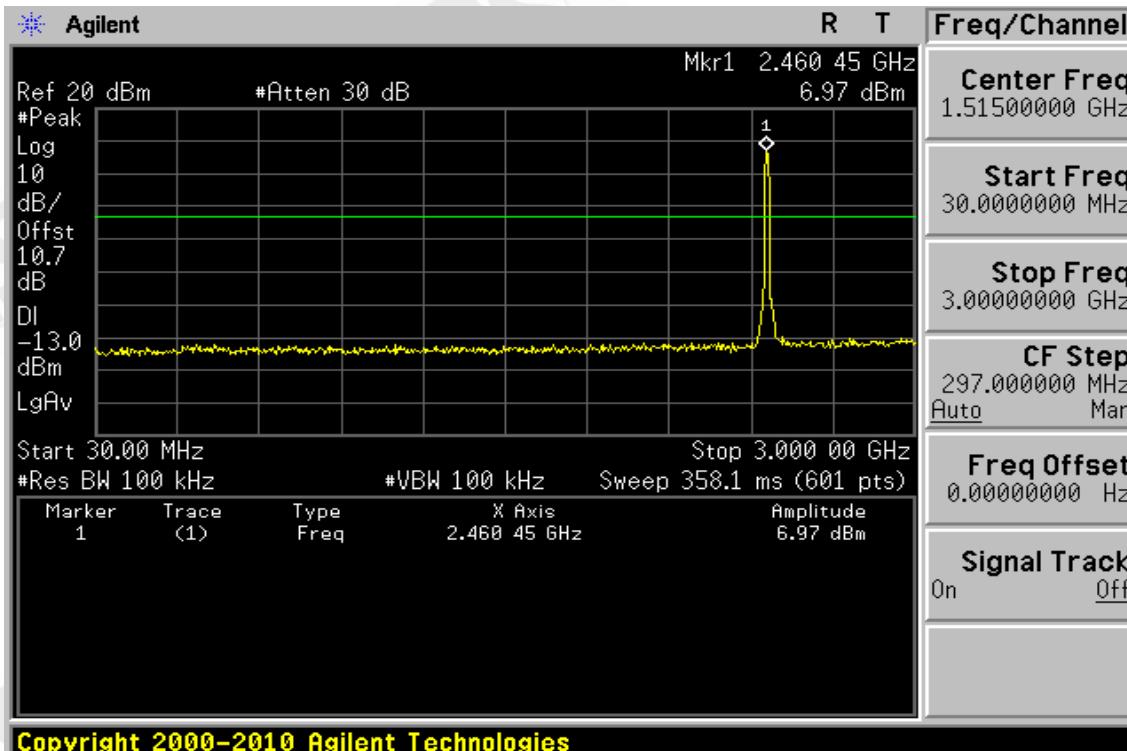
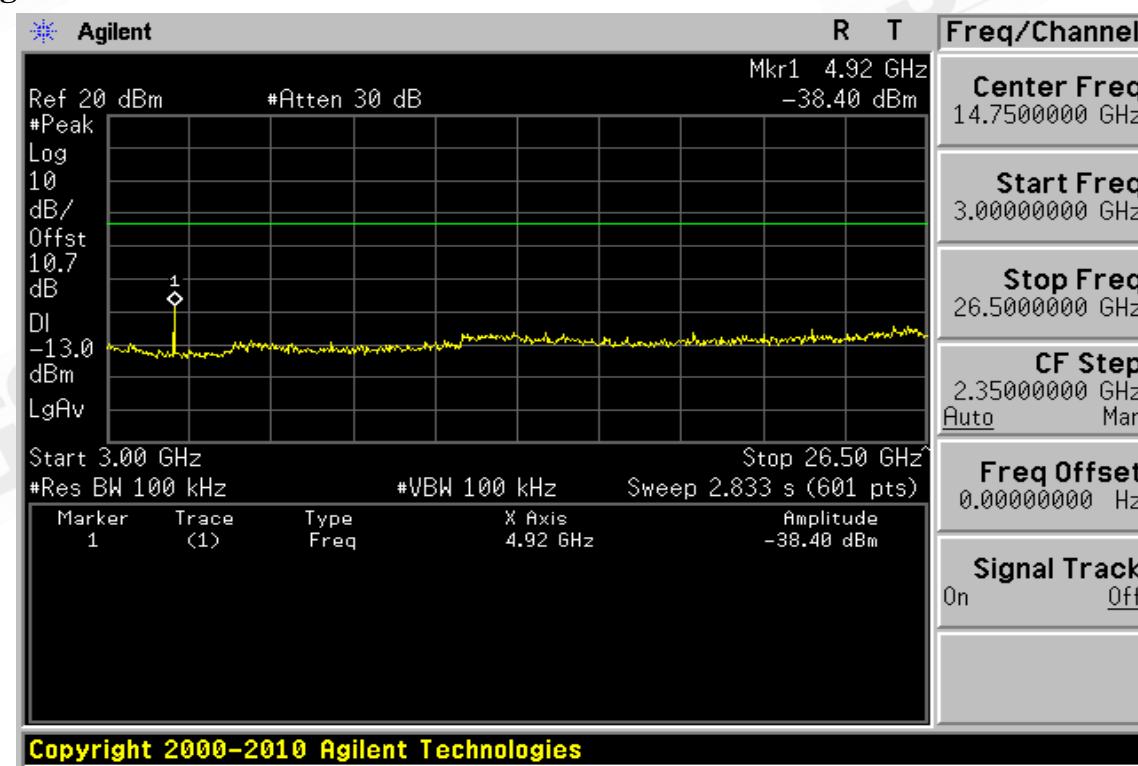


### Ch Mid 3GHz – 26.5GHz



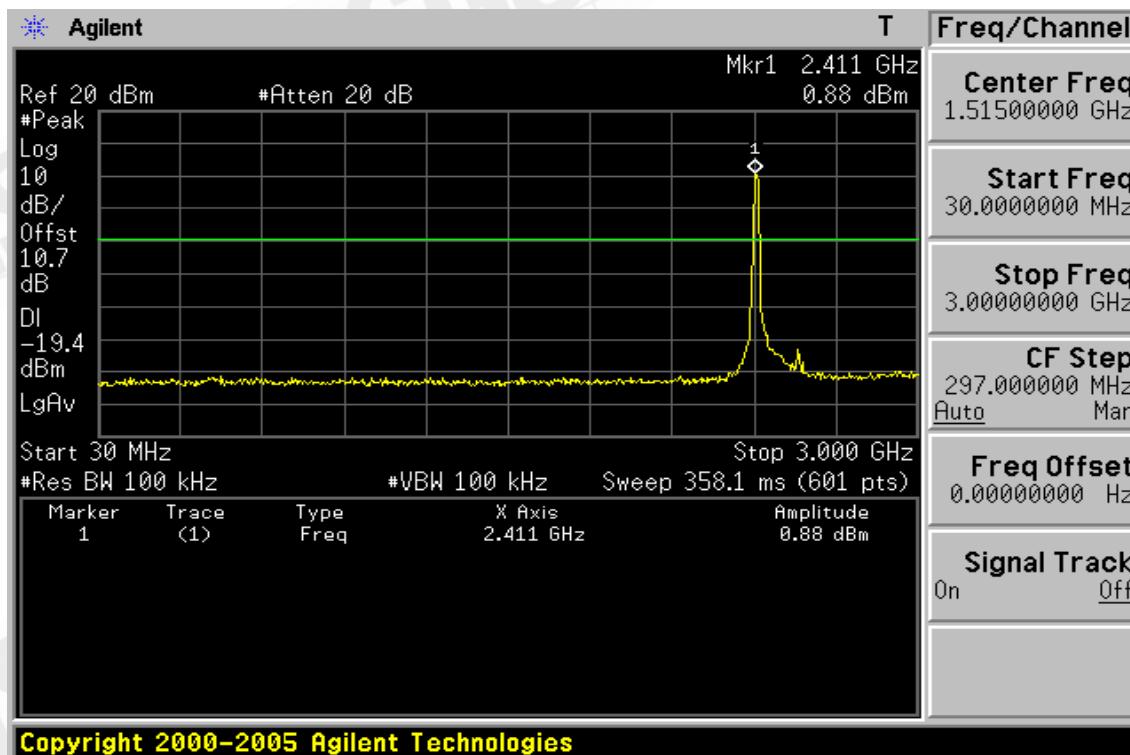
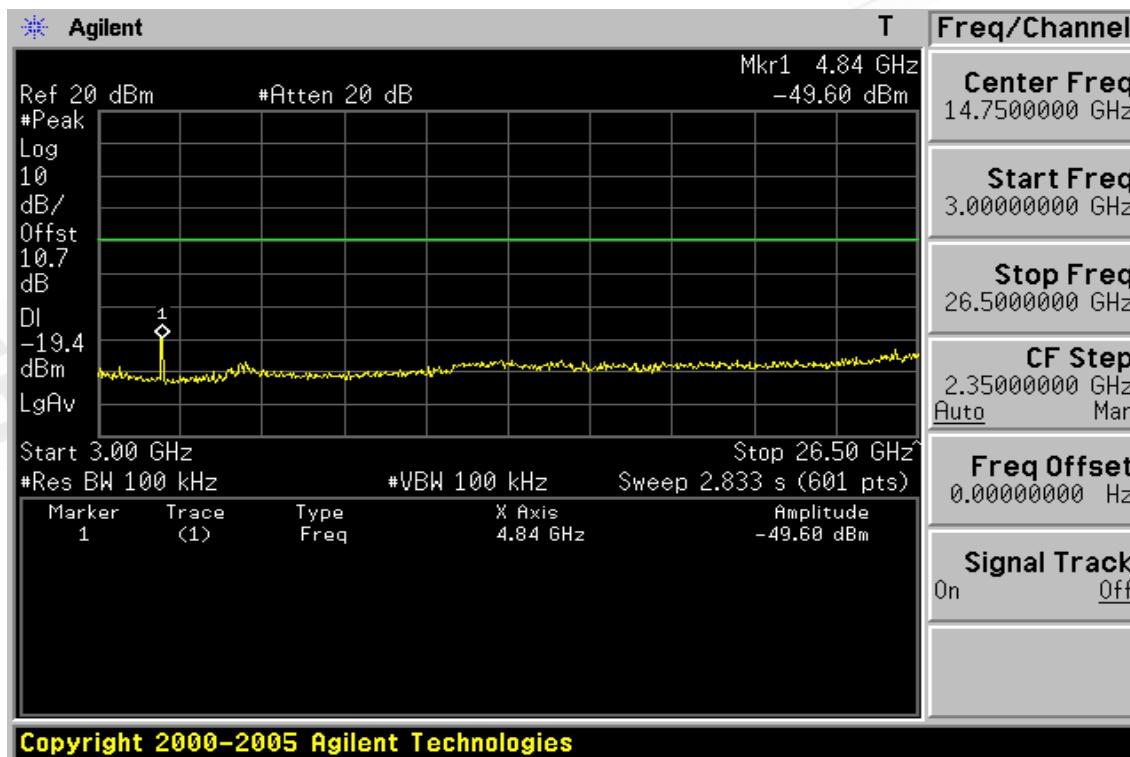
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**Ch High 30MHz – 3GHz****Ch High 3GHz – 26.5GHz**

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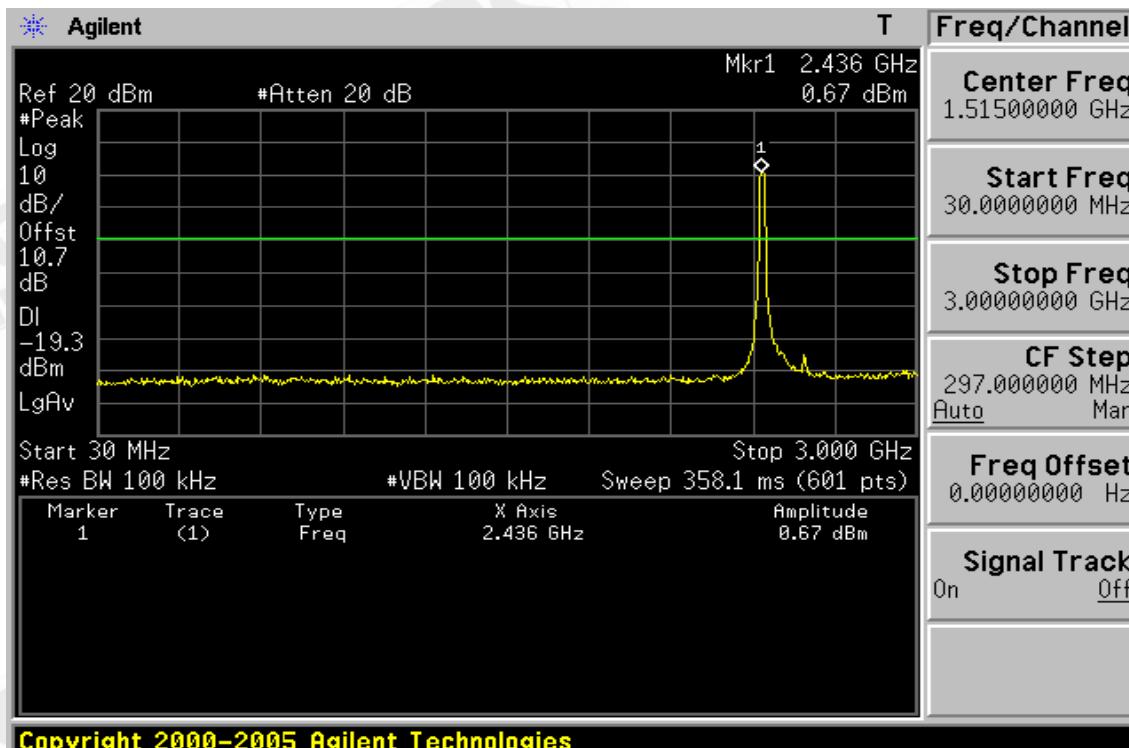
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**Conducted Spurious Emission Measurement Result (802.11g)****Ch Low 30MHz – 3GHz****Ch Low 3GHz – 26.5GHz**

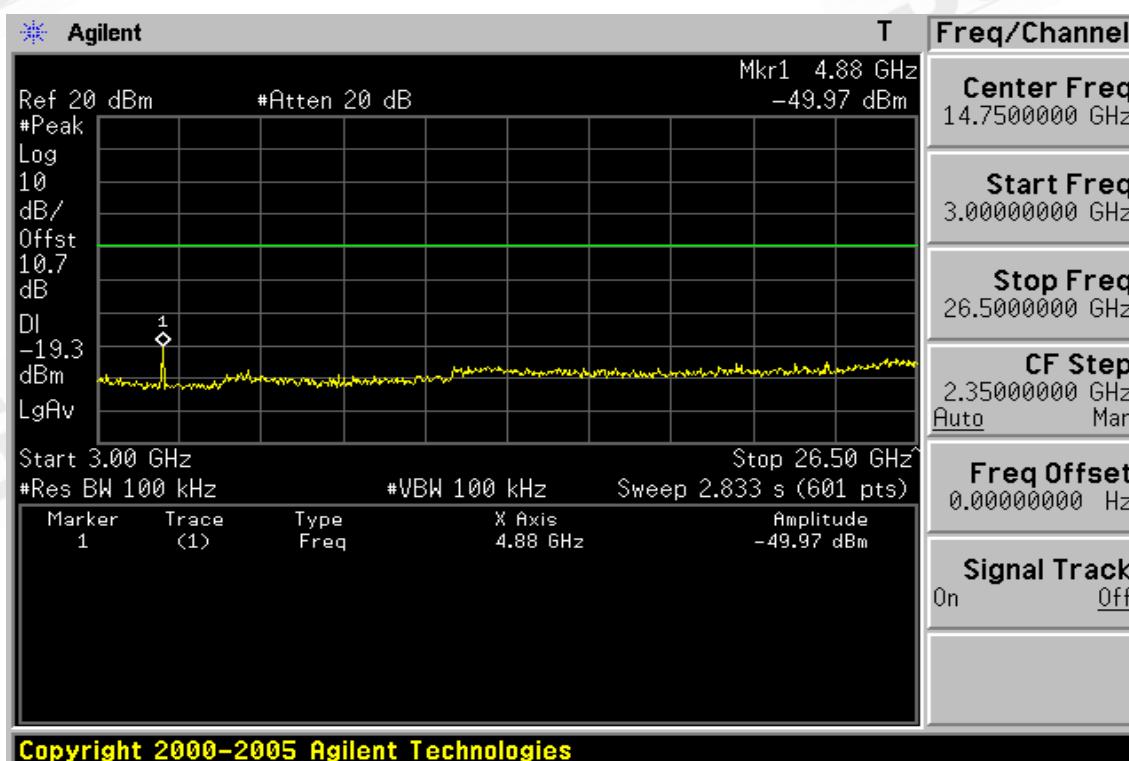
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### Ch Mid 30MHz – 3GHz

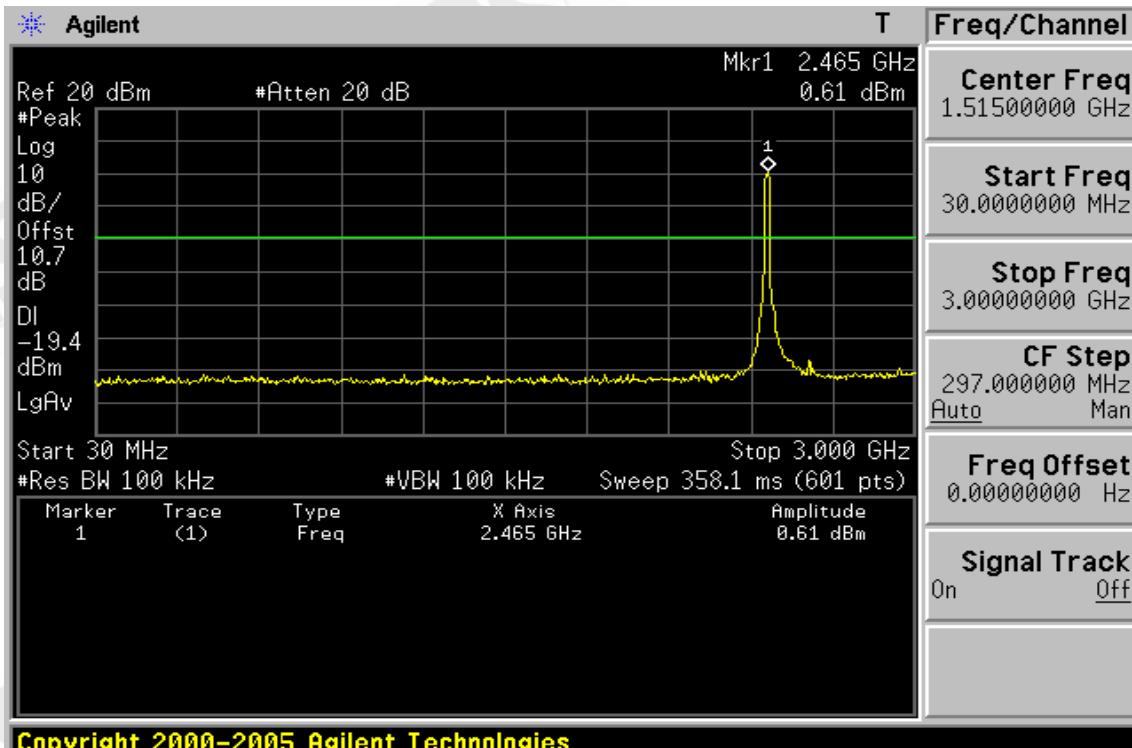
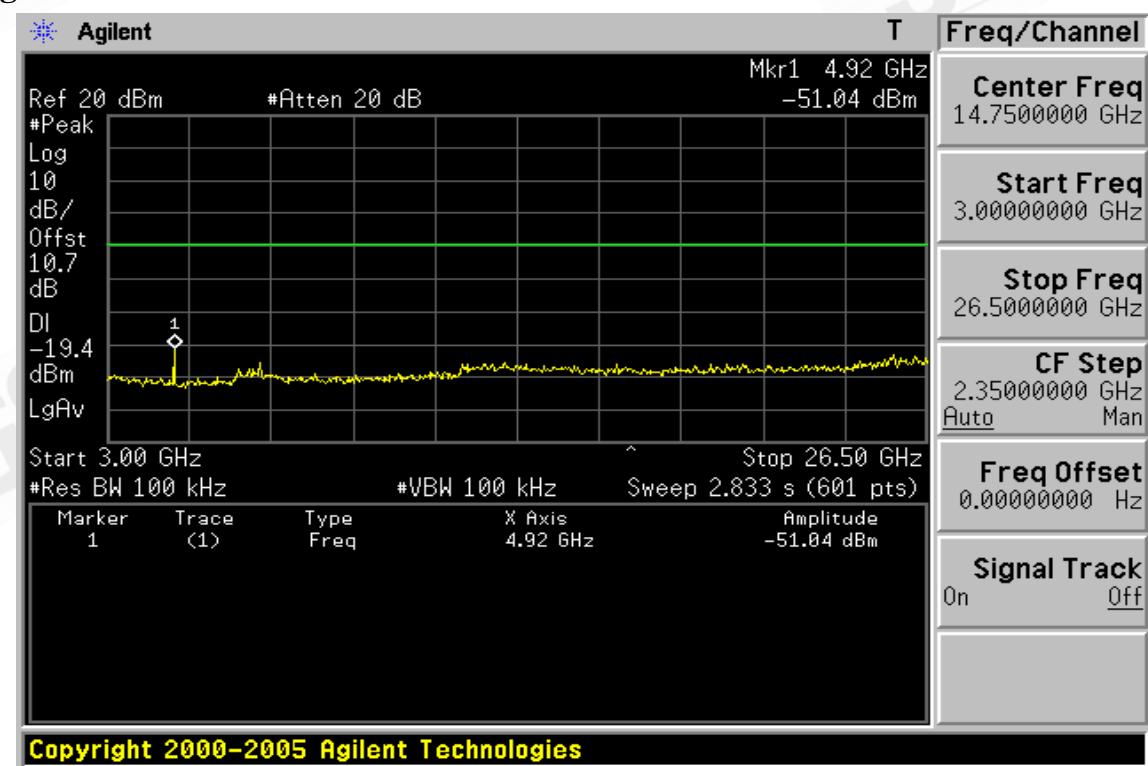


### Ch Mid 3GHz – 26.5GHz



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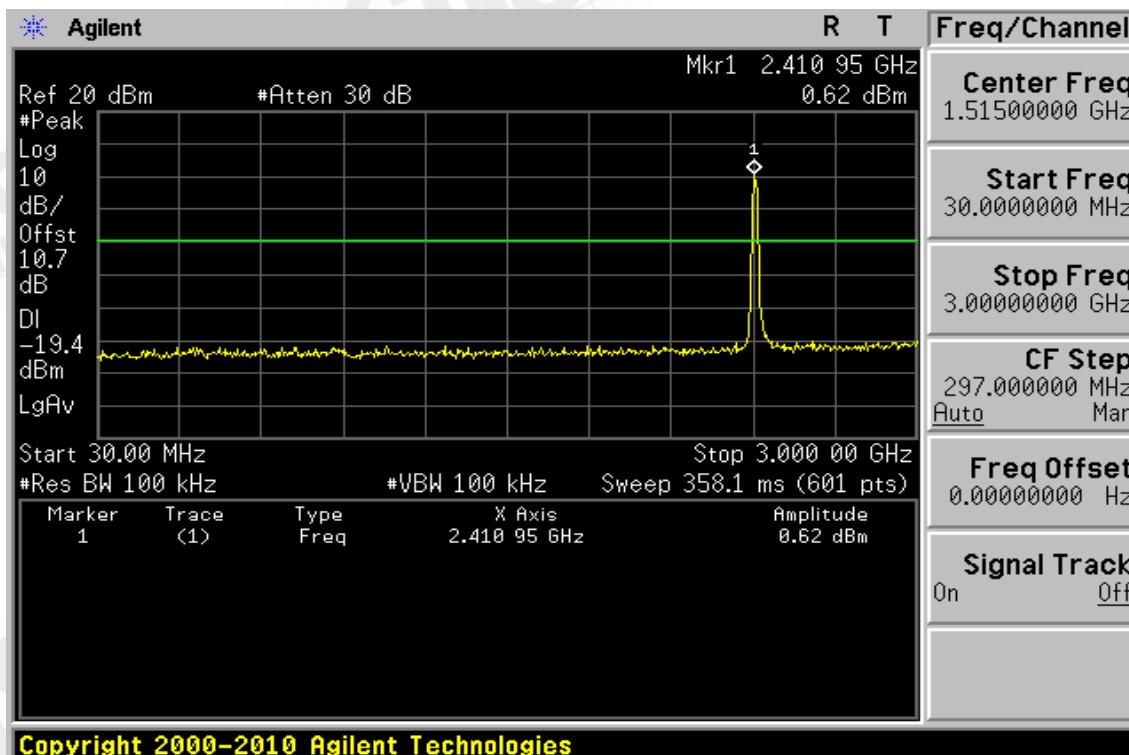
**Ch High 30MHz – 3GHz****Ch High 3GHz – 26.5GHz**

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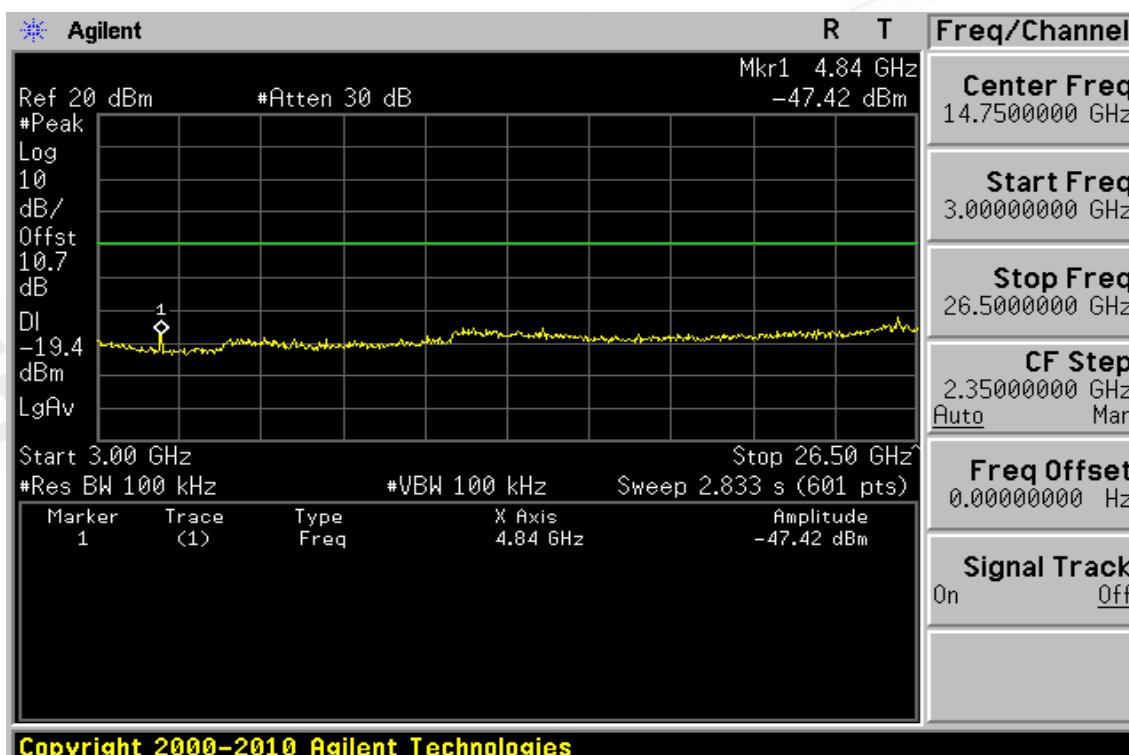
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## Conducted Spurious Emission Measurement Result (802.11n\_20M)

### Ch Low 30MHz – 3GHz



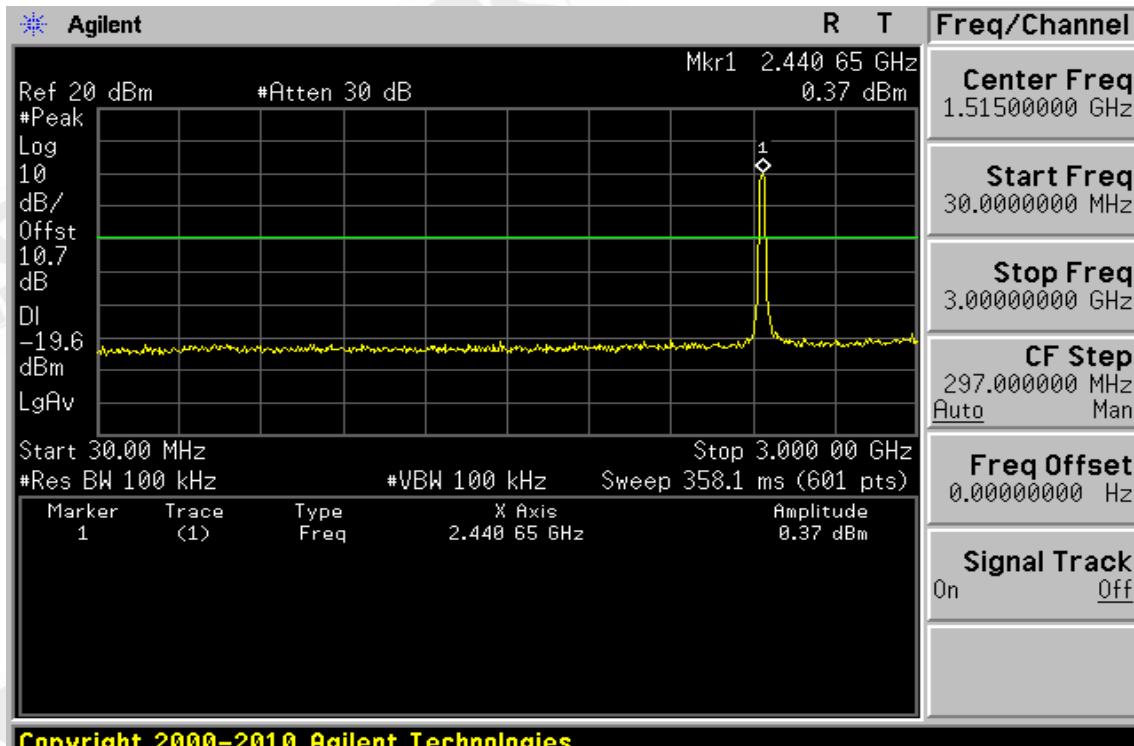
### Ch Low 3GHz – 26.5GHz



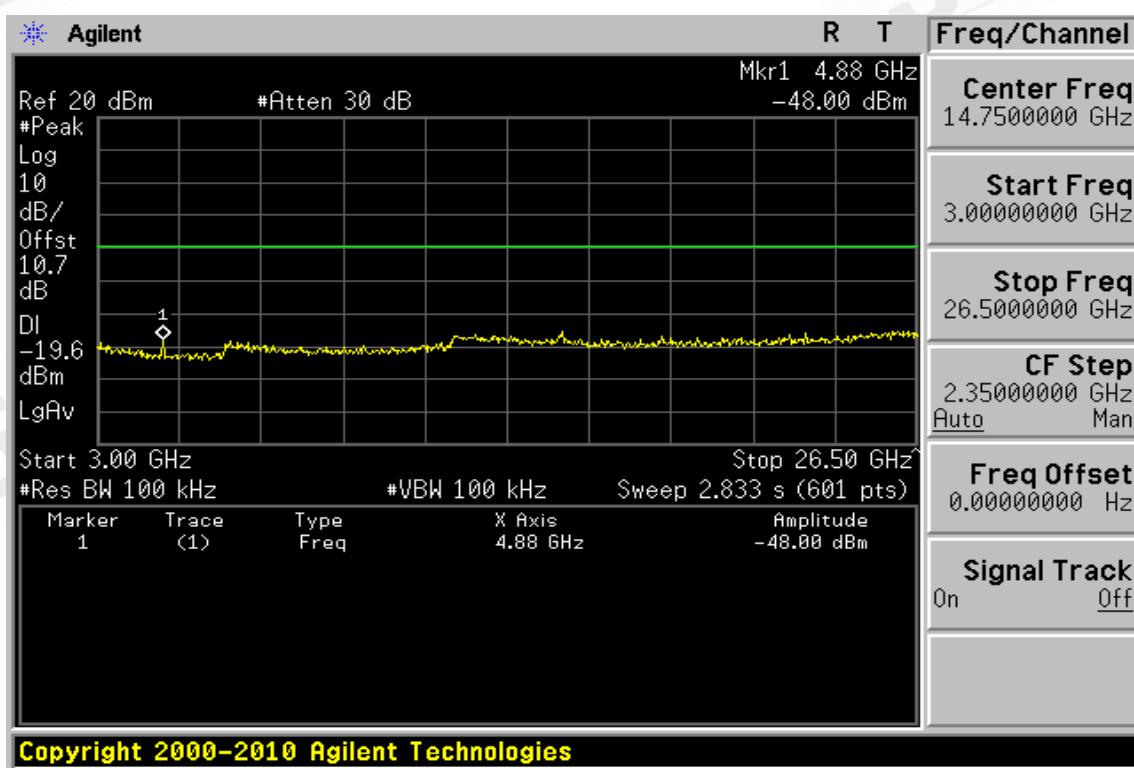
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### Ch Mid 30MHz – 3GHz

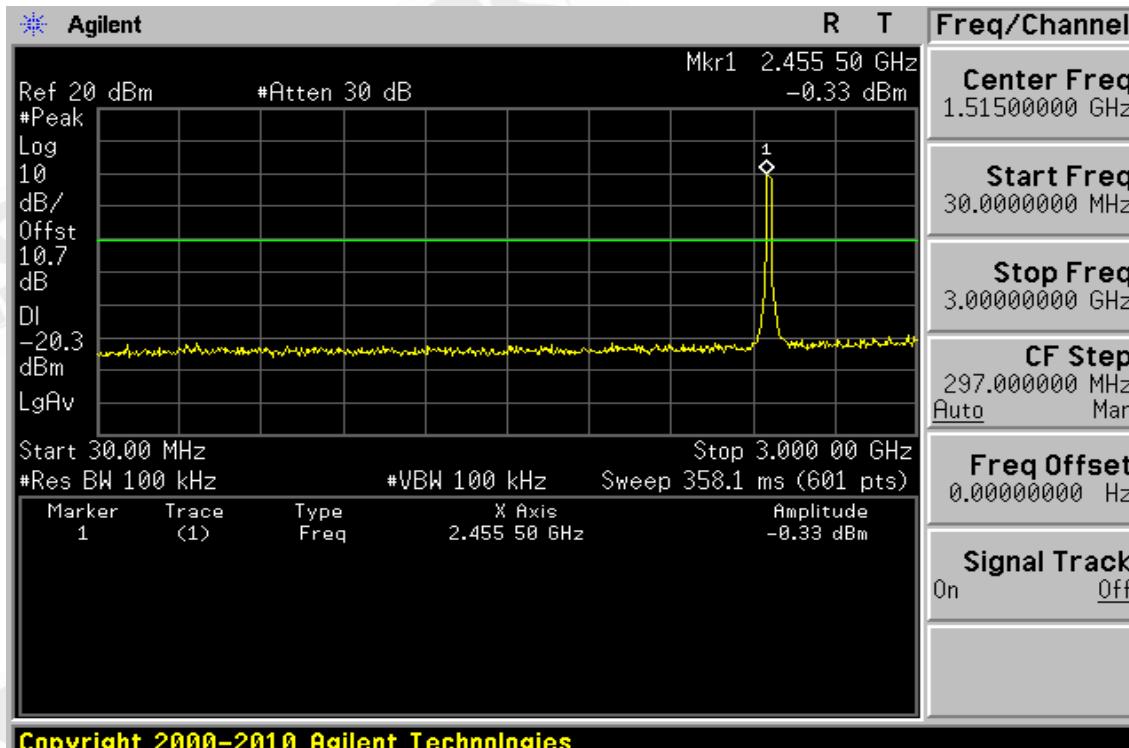
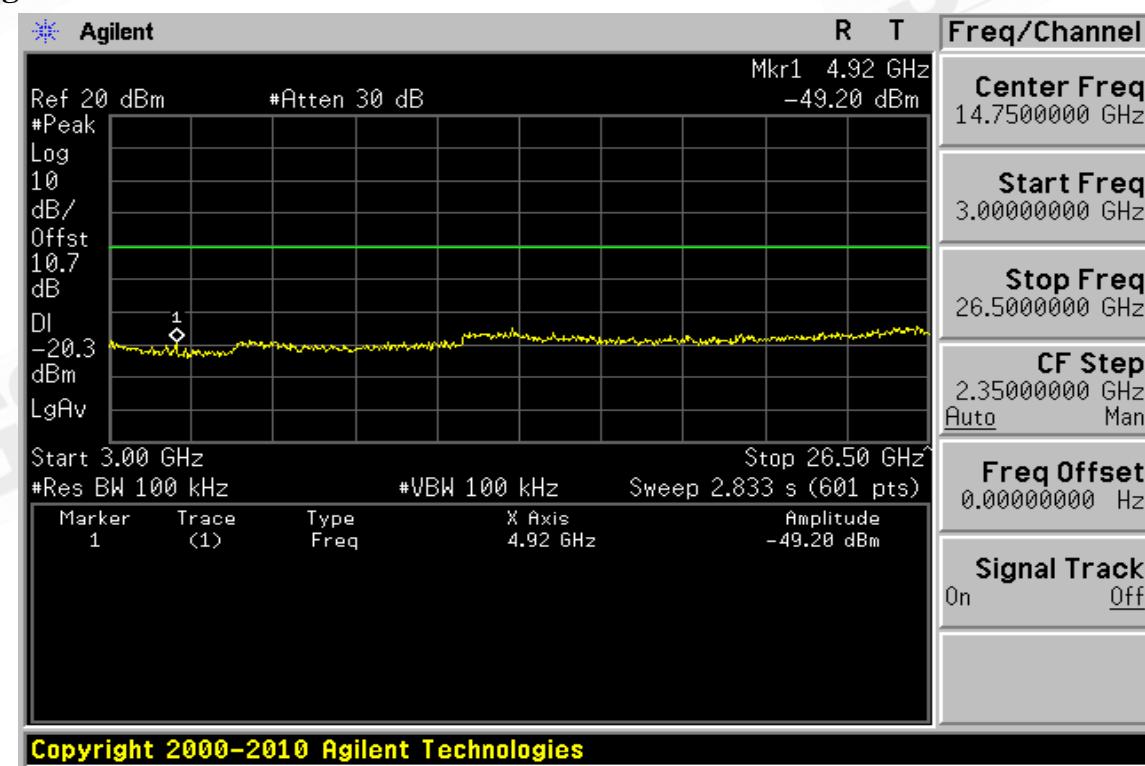


### Ch Mid 3GHz – 26.5GHz



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**Ch High 30MHz – 3GHz****Ch High 3GHz – 26.5GHz**

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**Radiated Spurious Emission Measurement Result (802.11b)**

Operation Band : 802.11b      Test Date : 2012-06-07  
 Fundamental Frequency : 2412 MHz      Temp./Humi. : 23.6 deg\_C / 67 RH  
 Operation Mode : TX      Engineer : Jay  
 EUT Pol. : E2 plan      Measurement Antenna Pol. : VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						Factor dB	Actual FS dB $\mu$ V/m
41.64	S	Peak	45.37	-13.56	31.81	40.00	-8.19
109.54	S	Peak	34.23	-15.81	18.42	43.50	-25.08
268.62	S	Peak	26.03	-13.40	12.63	46.00	-33.37
414.12	S	Peak	28.10	-10.75	17.35	46.00	-28.65
620.73	S	Peak	27.58	-7.11	20.47	46.00	-25.53
734.22	S	Peak	27.77	-5.23	22.54	46.00	-23.46
4824.00	H	Peak	44.30	9.56	53.86	74.00	-20.14
4824.00	H	Average	43.62	9.58	53.20	54.00	-0.80
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11b  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
40.67	S	Peak	33.52	-13.48	20.04	40.00	-19.96
166.77	S	Peak	27.58	-12.87	14.71	43.50	-28.79
322.94	S	Peak	27.09	-12.03	15.06	46.00	-30.94
522.76	S	Peak	28.06	-9.15	18.91	46.00	-27.09
709.97	S	Peak	27.64	-5.59	22.05	46.00	-23.95
834.13	S	Peak	27.30	-3.85	23.45	46.00	-22.55
4824.00	H	Peak	41.30	9.57	50.87	74.00	-23.13
4824.00	H	Average	39.08	9.59	48.67	54.00	-5.33
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11b  
 Fundamental Frequency :2437 MHz  
 Operation Mode :TX  
 EUT Pol. :E2 plan

Test Date :2012-06-07  
 Temp./Humi. :23.6 deg\_C / 67 RH  
 Engineer :Jay  
 Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	dB $\mu$ V				
41.64	S	Peak		45.32	-13.56	31.76	40.00	-8.24
108.57	S	Peak		33.97	-15.90	18.07	43.50	-25.43
277.35	S	Peak		26.70	-13.13	13.57	46.00	-32.43
435.46	S	Peak		27.76	-10.31	17.45	46.00	-28.55
516.94	S	Peak		28.13	-9.26	18.87	46.00	-27.13
671.17	S	Peak		27.71	-6.17	21.54	46.00	-24.46
4874.00	H	Peak		39.29	10.12	49.41	74.00	-24.59
4874.00	H	Average		38.37	10.12	48.49	54.00	-5.51
7311.00	H	---						
9748.00	H	---						
12185.00	H	---						
14622.00	H	---						
17059.00	H	---						
19496.00	H	---						
21933.00	H	---						
24370.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11b  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
39.70	S	Peak	32.79	-13.47	19.32	40.00	-20.68
156.10	S	Peak	26.89	-12.30	14.59	43.50	-28.91
286.08	S	Peak	29.92	-12.89	17.03	46.00	-28.97
463.59	S	Peak	27.24	-9.92	17.32	46.00	-28.68
672.14	S	Peak	27.05	-6.16	20.89	46.00	-25.11
828.31	S	Peak	26.95	-3.90	23.05	46.00	-22.95
4874.00	H	Peak	38.54	10.07	48.61	74.00	-25.39
4874.00	H	Average	36.11	10.07	46.18	54.00	-7.82
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11b  
 Fundamental Frequency :2462 MHz  
 Operation Mode :TX  
 EUT Pol. :E2 plan

Test Date :2012-06-07  
 Temp./Humi. :23.6 deg\_C / 67 RH  
 Engineer :Jay  
 Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak		45.45	-13.56	31.89	40.00	-8.11
109.54	S	Peak		35.26	-15.81	19.45	43.50	-24.05
286.08	S	Peak		26.91	-12.89	14.02	46.00	-31.98
487.84	S	Peak		27.56	-9.73	17.83	46.00	-28.17
685.72	S	Peak		27.44	-5.95	21.49	46.00	-24.51
785.63	S	Peak		27.32	-4.39	22.93	46.00	-23.07
4924.00	H	Peak		40.04	9.95	49.99	74.00	-24.01
4924.00	H	Average		36.82	9.96	46.78	54.00	-7.22
7386.00	H	---						
9848.00	H	---						
12310.00	H	---						
14772.00	H	---						
17234.00	H	---						
19696.00	H	---						
22158.00	H	---						
24620.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11b  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
39.70	S	Peak	33.16	-13.47	19.69	40.00	-20.31
125.06	S	Peak	28.42	-14.23	14.19	43.50	-29.31
286.08	S	Peak	29.31	-12.89	16.42	46.00	-29.58
475.23	S	Peak	28.44	-9.86	18.58	46.00	-27.42
579.99	S	Peak	27.60	-7.99	19.61	46.00	-26.39
789.51	S	Peak	27.51	-4.34	23.17	46.00	-22.83
4924.00	H	Peak	37.48	9.84	47.32	74.00	-26.68
4924.00	H	Average	34.62	9.84	44.46	54.00	-9.54
7386.00	H	---	---				
9848.00	H	---	---				
12310.00	H	---	---				
14772.00	H	---	---				
17234.00	H	---	---				
19696.00	H	---	---				
22158.00	H	---	---				
24620.00	H	---	---				

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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**Radiated Spurious Emission Measurement Result (802.11g)**

Operation Band : 802.11g      Test Date : 2012-05-07  
 Fundamental Frequency : 2412 MHz      Temp./Humi. : 23.6 deg\_C / 67 RH  
 Operation Mode : TX      Engineer : Jay  
 EUT Pol. : E2 plan      Measurement Antenna Pol. : VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak	45.30	-13.56	31.74	40.00	-8.26	
114.39	S	Peak	33.25	-15.22	18.03	43.50	-25.47	
286.08	S	Peak	27.41	-12.89	14.52	46.00	-31.48	
487.84	S	Peak	27.91	-9.73	18.18	46.00	-27.82	
673.11	S	Peak	27.95	-6.14	21.81	46.00	-24.19	
814.73	S	Peak	27.36	-4.03	23.33	46.00	-22.67	
4824.00	H	Peak	37.45	9.63	47.08	74.00	-26.92	
7236.00	H	---						
9648.00	H	---						
12060.00	H	---						
14472.00	H	---						
16884.00	H	---						
19296.00	H	---						
21708.00	H	---						
24120.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11g  
 Fundamental Frequency :2412 MHz  
 Operation Mode :TX  
 EUT Pol. :E2 plan

Test Date :2012-05-07  
 Temp./Humi. :23.6 deg\_C / 67 RH  
 Engineer :Jay  
 Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	dB $\mu$ V				
41.64	S	Peak	33.07	-13.56	19.51	40.00	-20.49	
151.25	S	Peak	28.13	-12.34	15.79	43.50	-27.71	
286.08	S	Peak	29.90	-12.89	17.01	46.00	-28.99	
457.77	S	Peak	27.79	-9.99	17.80	46.00	-28.20	
659.53	S	Peak	27.10	-6.39	20.71	46.00	-25.29	
806.00	S	Peak	27.26	-4.12	23.14	46.00	-22.86	
4824.00	H	Peak	37.95	9.60	47.55	74.00	-26.45	
7236.00	H	---						
9648.00	H	---						
12060.00	H	---						
14472.00	H	---						
16884.00	H	---						
19296.00	H	---						
21708.00	H	---						
24120.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11g  
 Fundamental Frequency :2437 MHz  
 Operation Mode :TX  
 EUT Pol. :E2 plan

Test Date :2012-05-07  
 Temp./Humi. :23.6 deg\_C / 67 RH  
 Engineer :Jay  
 Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak		45.30	-13.56	31.74	40.00	-8.26
108.57	S	Peak		33.73	-15.90	17.83	43.50	-25.67
287.05	S	Peak		27.08	-12.87	14.21	46.00	-31.79
417.03	S	Peak		26.79	-10.70	16.09	46.00	-29.91
597.45	S	Peak		28.22	-7.61	20.61	46.00	-25.39
770.11	S	Peak		27.21	-4.61	22.60	46.00	-23.40
4874.00	H	Peak		36.79	10.16	46.95	74.00	-27.05
7311.00	H	---						
9748.00	H	---						
12185.00	H	---						
14622.00	H	---						
17059.00	H	---						
19496.00	H	---						
21933.00	H	---						
24370.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11g  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 plan  
Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
40.67	S	Peak		34.46	-13.48	20.98	40.00	-19.02
156.10	S	Peak		26.85	-12.30	14.55	43.50	-28.95
286.08	S	Peak		28.66	-12.89	15.77	46.00	-30.23
438.37	S	Peak		27.87	-10.25	17.62	46.00	-28.38
584.84	S	Peak		28.44	-7.88	20.56	46.00	-25.44
794.36	S	Peak		28.36	-4.27	24.09	46.00	-21.91
4874.00	H	Peak		36.63	10.11	46.74	74.00	-27.26
7311.00	H	---						
9748.00	H	---						
12185.00	H	---						
14622.00	H	---						
17059.00	H	---						
19496.00	H	---						
21933.00	H	---						
24370.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11g  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak		45.29	-13.56	31.73	40.00	-8.27
110.51	S	Peak		34.22	-15.69	18.53	43.50	-24.97
304.51	S	Peak		26.92	-12.45	14.47	46.00	-31.53
430.61	S	Peak		26.65	-10.41	16.24	46.00	-29.76
638.19	S	Peak		27.23	-6.80	20.43	46.00	-25.57
838.01	S	Peak		27.64	-3.81	23.83	46.00	-22.17
4924.00	H	Peak		36.91	9.95	46.86	74.00	-27.14
7386.00	H	---						
9848.00	H	---						
12310.00	H	---						
14772.00	H	---						
17234.00	H	---						
19696.00	H	---						
22158.00	H	---						
24620.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11g  
 Fundamental Frequency :2462 MHz  
 Operation Mode :TX  
 EUT Pol. :E2 plan

Test Date :2012-05-07  
 Temp./Humi. :23.6 deg\_C / 67 RH  
 Engineer :Jay  
 Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak		34.21	-13.56	20.65	40.00	-19.35
158.04	S	Peak		26.82	-12.30	14.52	43.50	-28.98
286.08	S	Peak		29.78	-12.89	16.89	46.00	-29.11
394.72	S	Peak		27.68	-11.14	16.54	46.00	-29.46
490.75	S	Peak		28.89	-9.69	19.20	46.00	-26.80
842.86	S	Peak		28.23	-3.76	24.47	46.00	-21.53
4924.00	H	Peak		36.36	9.84	46.20	74.00	-27.80
7386.00	H	---						
9848.00	H	---						
12310.00	H	---						
14772.00	H	---						
17234.00	H	---						
19696.00	H	---						
22158.00	H	---						
24620.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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**Radiated Spurious Emission Measurement Result (802.11n\_20M)**

Operation Band : 802.11n 20M      Test Date : 2012-06-07  
 Fundamental Frequency : 2412 MHz      Temp./Humi. : 23.6 deg\_C / 67 RH  
 Operation Mode : TX      Engineer : Jay  
 EUT Pol. : E2 plan      Measurement Antenna Pol. : VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Safe
					FS dB $\mu$ V/m	@3m dB $\mu$ V/m	Margin dB
42.61	S	Peak	45.21	-13.63	31.58	40.00	-8.42
108.57	S	Peak	34.44	-15.90	18.54	43.50	-24.96
386.96	S	Peak	26.85	-11.19	15.66	46.00	-30.34
582.90	S	Peak	28.50	-7.92	20.58	46.00	-25.42
731.31	S	Peak	28.18	-5.27	22.91	46.00	-23.09
873.90	S	Peak	27.12	-3.31	23.81	46.00	-22.19
4824.00	H	Peak	37.14	9.56	46.70	74.00	-27.30
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11n 20M      Test Date :2012-06-07  
Fundamental Frequency :2412 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
Operation Mode :TX      Engineer :Jay  
EUT Pol. :E2 plan      Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
41.64	S	Peak	33.38	-13.56	19.82	40.00	-20.18
155.13	S	Peak	26.94	-12.30	14.64	43.50	-28.86
286.08	S	Peak	28.96	-12.89	16.07	46.00	-29.93
455.83	S	Peak	28.30	-9.99	18.31	46.00	-27.69
676.99	S	Peak	27.35	-6.09	21.26	46.00	-24.74
891.36	S	Peak	27.00	-2.98	24.02	46.00	-21.98
4824.00	H	Peak	37.39	9.57	46.96	74.00	-27.04
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.  
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Operation Band :802.11n 20M      Test Date :2012-06-07  
Fundamental Frequency :2437 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
Operation Mode :TX      Engineer :Jay  
EUT Pol. :E2 plan      Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
41.64	S	Peak	45.36	-13.56	31.80	40.00	-8.20
143.49	S	Peak	30.67	-12.82	17.85	43.50	-25.65
365.62	S	Peak	29.10	-11.49	17.61	46.00	-28.39
537.31	S	Peak	28.52	-8.84	19.68	46.00	-26.32
686.69	S	Peak	28.04	-5.92	22.12	46.00	-23.88
832.19	S	Peak	26.93	-3.86	23.07	46.00	-22.93
4874.00	H	Peak	36.01	10.12	46.13	74.00	-27.87
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11n 20M      Test Date :2012-06-07  
Fundamental Frequency :2437 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
Operation Mode :TX      Engineer :Jay  
EUT Pol. :E2 plan      Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
41.64	S	Peak	34.69	-13.56	21.13	40.00	-18.87
150.28	S	Peak	26.57	-12.35	14.22	43.50	-29.28
286.08	S	Peak	29.20	-12.89	16.31	46.00	-29.69
587.75	S	Peak	27.65	-7.82	19.83	46.00	-26.17
711.91	S	Peak	27.95	-5.55	22.40	46.00	-23.60
843.83	S	Peak	26.81	-3.74	23.07	46.00	-22.93
4874.00	H	Peak	34.99	10.07	45.06	74.00	-28.94
7311.00	H	---	---				
9748.00	H	---	---				
12185.00	H	---	---				
14622.00	H	---	---				
17059.00	H	---	---				
19496.00	H	---	---				
21933.00	H	---	---				
24370.00	H	---	---				

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11n 20M      Test Date :2012-06-07  
 Fundamental Frequency :2462 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
 Operation Mode :TX      Engineer :Jay  
 EUT Pol. :E2 plan      Measurement Antenna Pol. :VERTICAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum		Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
			PK/QP/AV	Reading Level dB $\mu$ V				
41.64	S	Peak		45.36	-13.56	31.80	40.00	-8.20
106.63	S	Peak		34.39	-16.09	18.30	43.50	-25.20
299.66	S	Peak		26.26	-12.58	13.68	46.00	-32.32
371.44	S	Peak		28.15	-11.41	16.74	46.00	-29.26
582.90	S	Peak		27.65	-7.92	19.73	46.00	-26.27
740.04	S	Peak		27.90	-5.13	22.77	46.00	-23.23
4924.00	H	Peak		36.66	9.95	46.61	74.00	-27.39
7386.00	H	---						
9848.00	H	---						
12310.00	H	---						
14772.00	H	---						
17234.00	H	---						
19696.00	H	---						
22158.00	H	---						
24620.00	H	---						

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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Operation Band :802.11n 20M      Test Date :2012-06-07  
Fundamental Frequency :2462 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
Operation Mode :TX      Engineer :Jay  
EUT Pol. :E2 plan      Measurement Antenna Pol. :HORIZONTAL

Actual FS(dB $\mu$ V/m) = SPA. Reading level(dB $\mu$ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB $\mu$ V/m) + Cable Loss(dB) - Pre\_Amplifier Gain(dB)

Note : "F" : denotes Fundamental Frequency. ; "H" : denotes Harmonic Frequency.

"E" : denotes Band Edge Frequency. ; "S" : denotes Spurious Frequency.

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Safe Margin dB
						PK/QP/AV	dB $\mu$ V
41.64	S	Peak	33.66	-13.56	20.10	40.00	-19.90
140.58	S	Peak	28.26	-13.04	15.22	43.50	-28.28
286.08	S	Peak	29.20	-12.89	16.31	46.00	-29.69
473.29	S	Peak	27.03	-9.89	17.14	46.00	-28.86
654.68	S	Peak	27.37	-6.50	20.87	46.00	-25.13
750.71	S	Peak	27.63	-4.95	22.68	46.00	-23.32
4924.00	H	Peak	34.67	9.84	44.51	74.00	-29.49
7386.00	H	---	---				
9848.00	H	---	---				
12310.00	H	---	---				
14772.00	H	---	---				
17234.00	H	---	---				
19696.00	H	---	---				
22158.00	H	---	---				
24620.00	H	---	---				

For measurement plot of radiation revealing the compliance of 15.205, please refer to Appendix I.

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## 11 PEAK POWER SPECTRAL DENSITY

### 11.1 Standard Applicable:

According to §15.247(e) For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

According to RSS-210 issue 8, §A8.2(b) The transmitter power spectral density (into the antenna) shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

### 11.2 Measurement Equipment Used:

Refer to section 7.2 for details.

### 11.3 Test Set-up:

Refer to section 7.3 for details.

### 11.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 3KHz, VBW = 10KHz, Span = 300kHz, Sweep=100s
4. Record the max. reading.
5. Repeat above procedures until all frequency measured were complete.

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**11.5 Measurement Result:****802.11b**

Frequency MHz	RF Power Density	RF Power Density	Maximum Limit
	Reading (dBm)	Level (dBm)	(dBm)
2412	-5.14	-5.14	8
2437	-4.93	-4.93	8
2462	-4.61	-4.61	8

**802.11g**

Frequency MHz	RF Power Density	RF Power Density	Maximum Limit
	Reading (dBm)	Level (dBm)	(dBm)
2412	-10.15	-10.15	8
2437	-10.42	-10.42	8
2462	-10.66	-10.66	8

**802.11n\_20M**

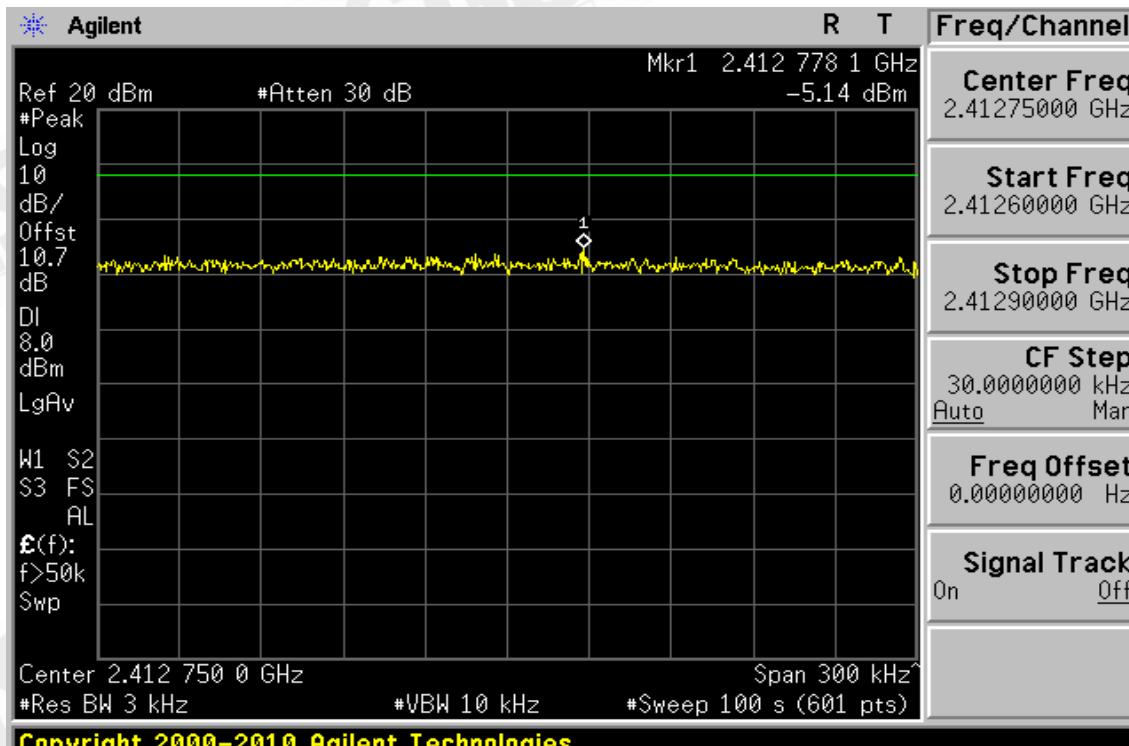
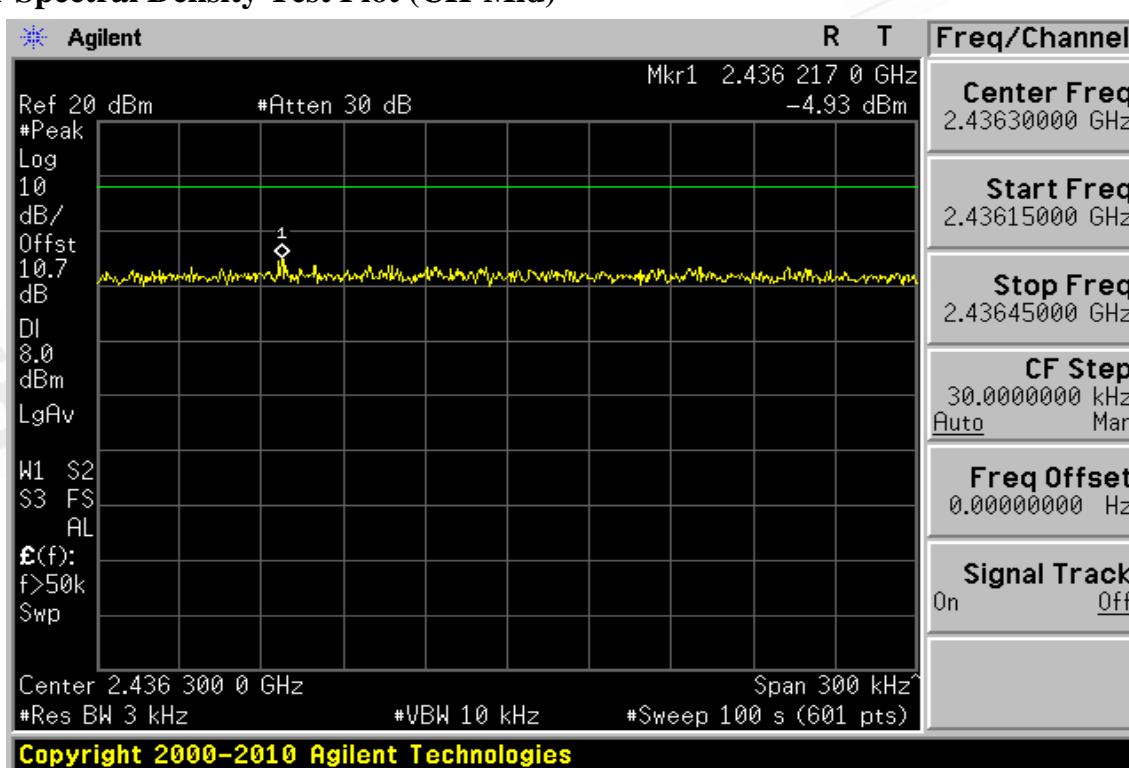
Frequency MHz	RF Power Density	RF Power Density	Maximum Limit
	Reading (dBm)	Level (dBm)	(dBm)
2412	-11.64	-11.64	8
2437	-12.18	-12.18	8
2462	-11.59	-11.59	8

*\*Offset 10.7 dB*

Note: Refer to next page for plots.

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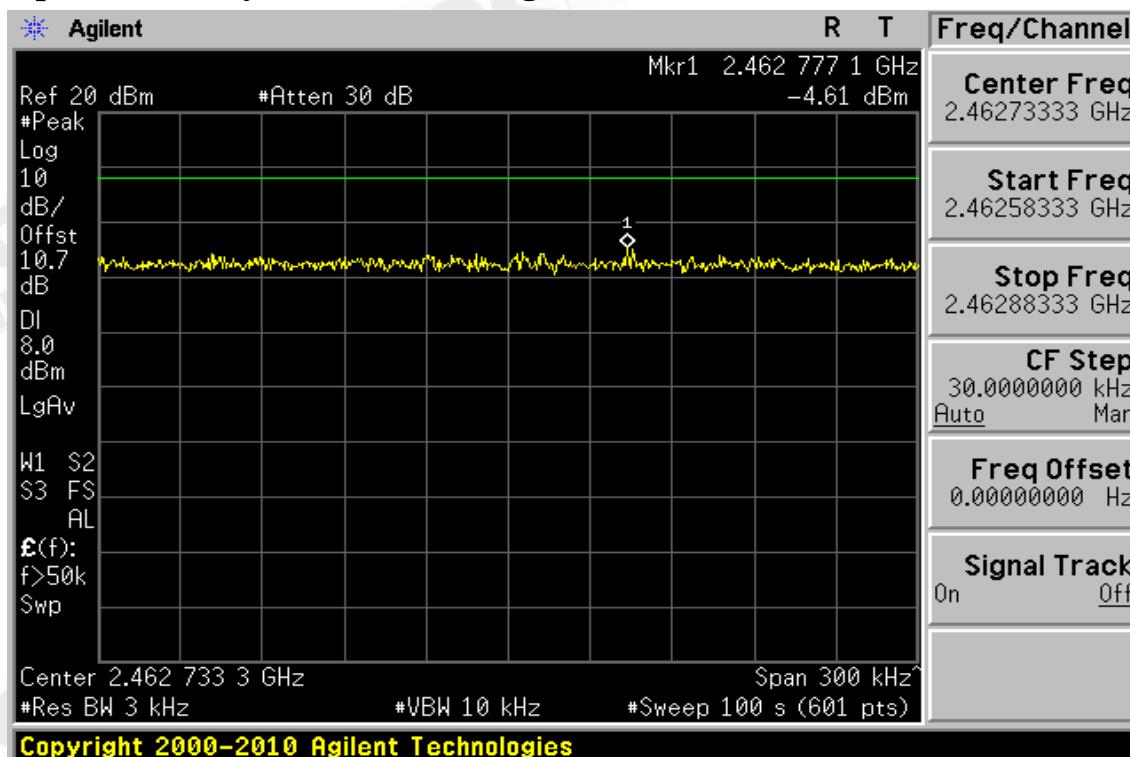
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**802.11b****Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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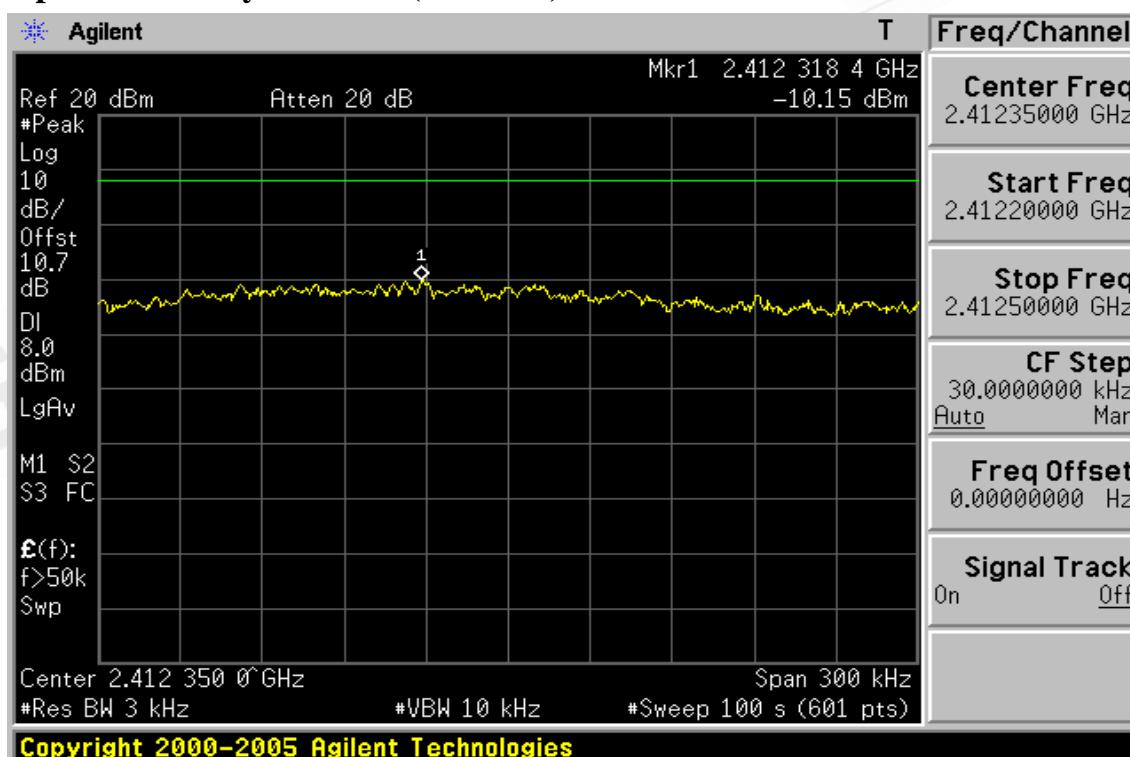
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### Power Spectral Density Test Plot (CH-High)



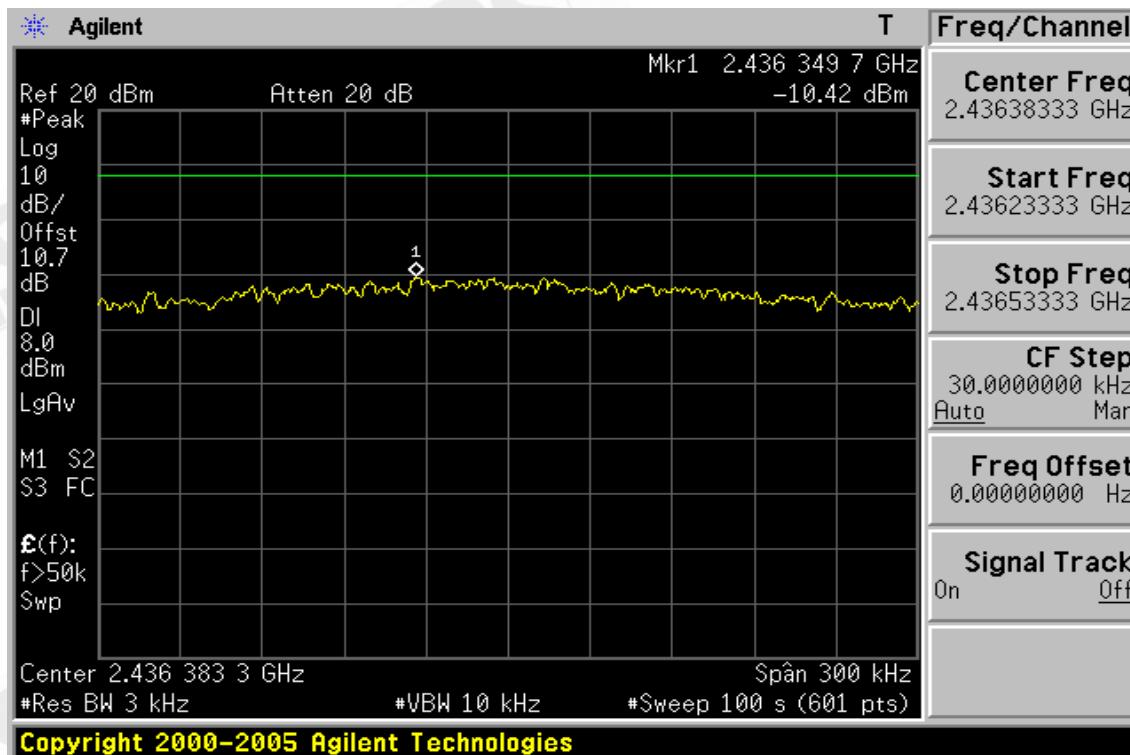
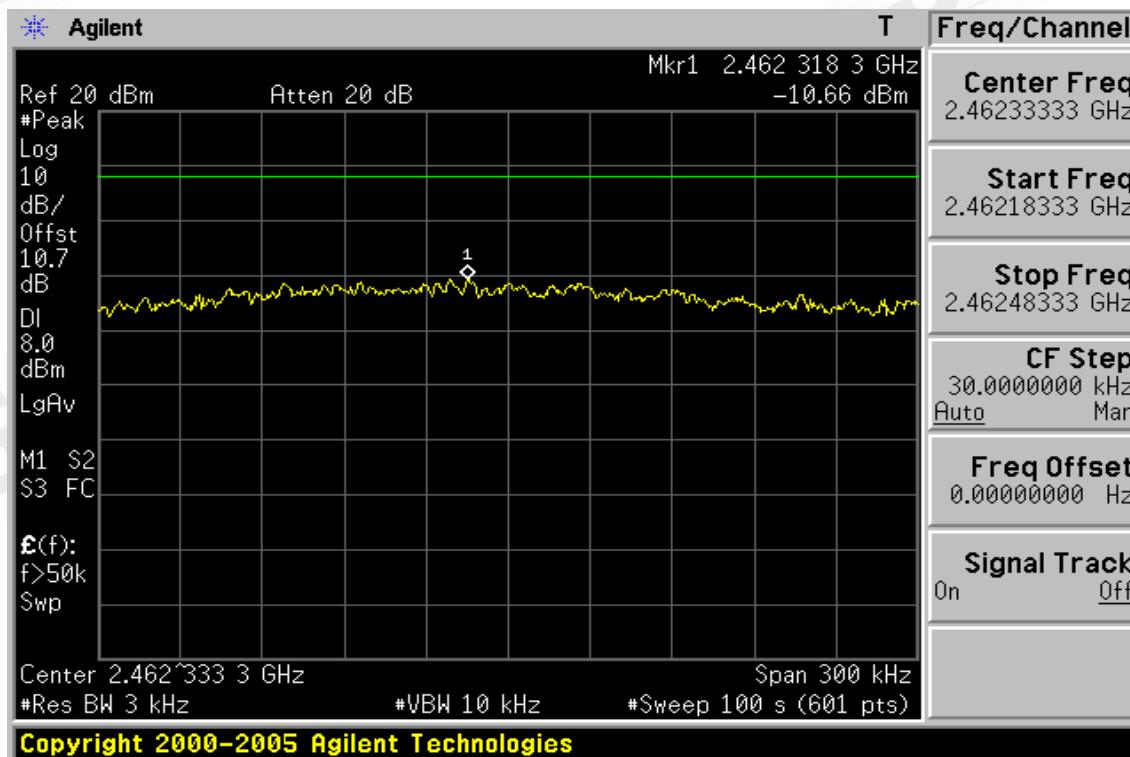
802.11g

### Power Spectral Density Test Plot (CH-Low)



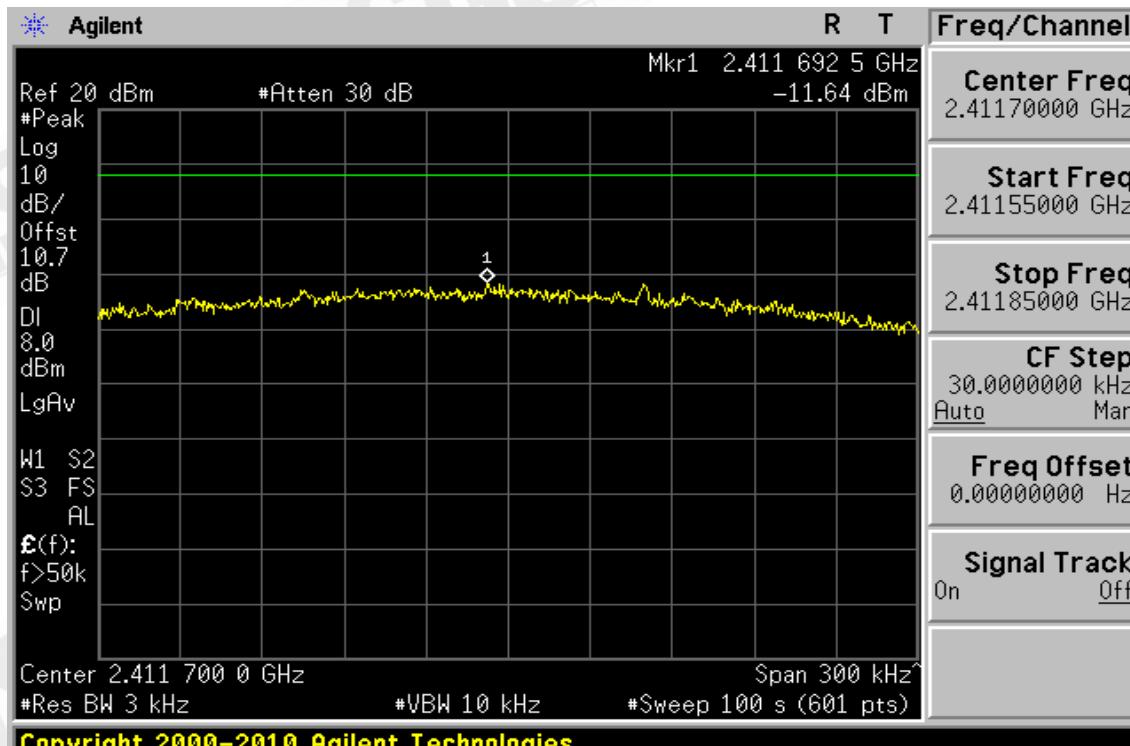
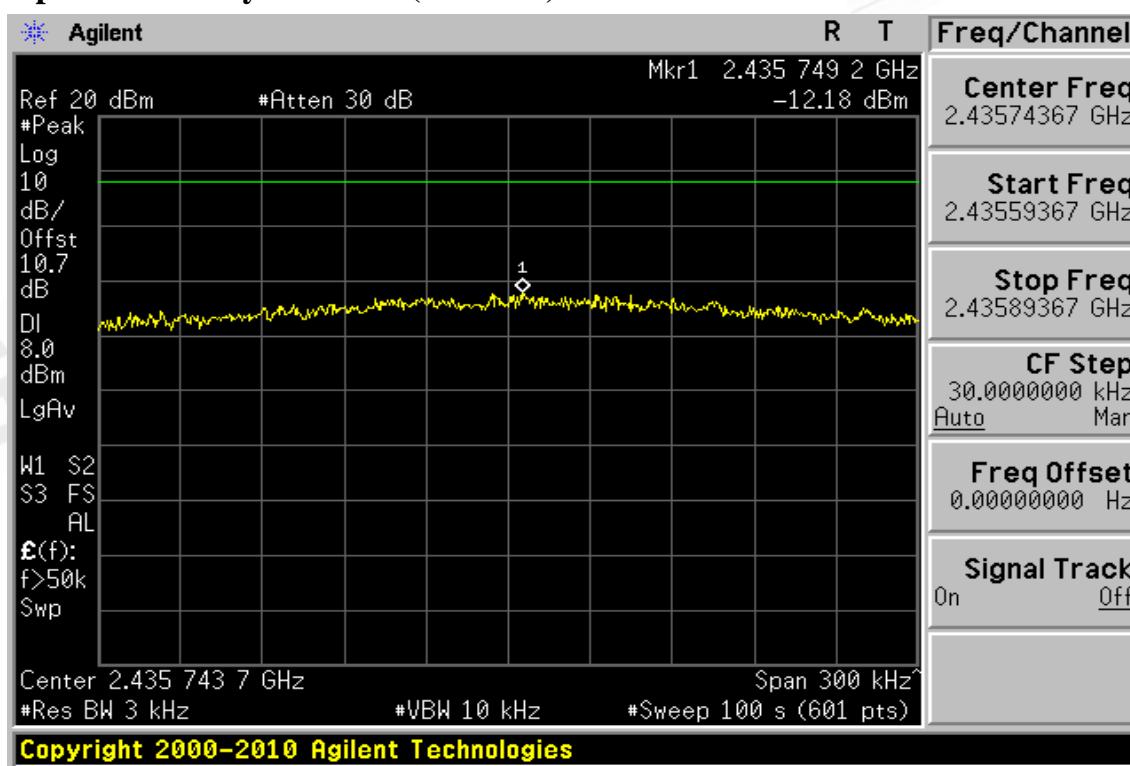
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**Power Spectral Density Test Plot (CH-Mid)**

**Power Spectral Density Test Plot (CH-High)**


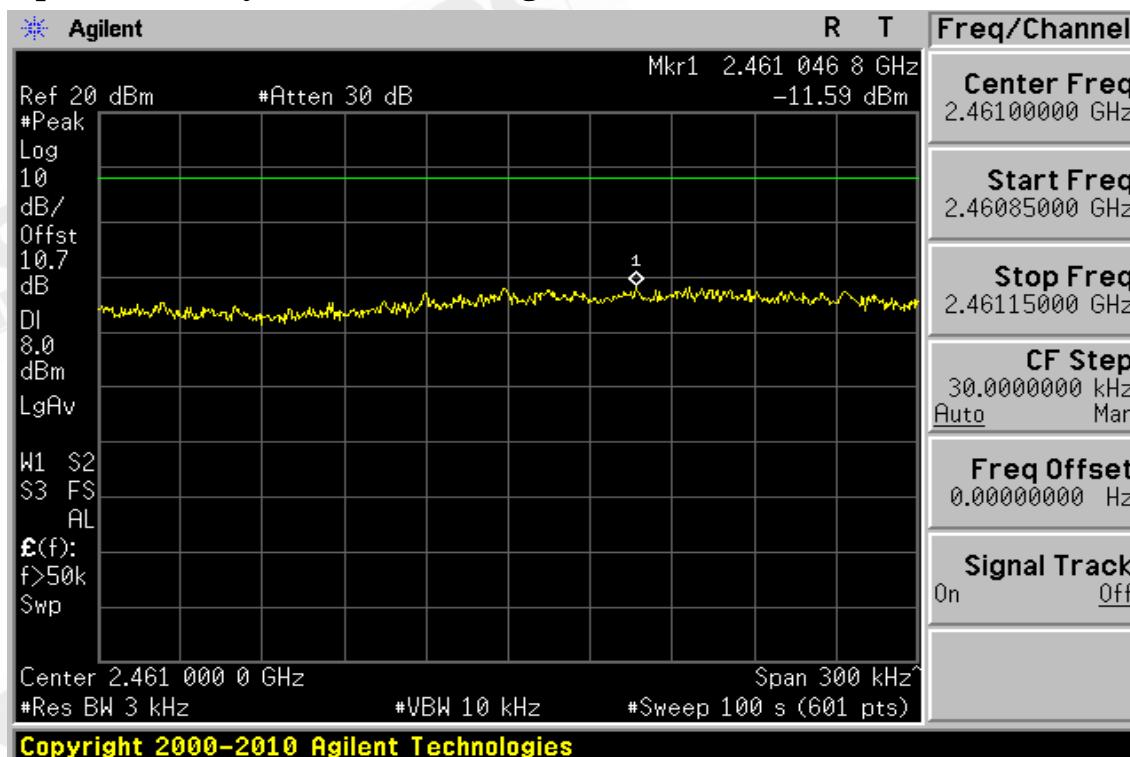
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**802.11n\_20M****Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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**Power Spectral Density Test Plot (CH-High)**

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## 12 ANTENNA REQUIREMENT

### 12.1 Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

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When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

## 12.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is -0.27 dBi, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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## 13 99% BANDWIDTH MEASUREMENT

### 13.1 Standard Applicable:

RSS-Gen §4.6.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

The span between the two recorded frequencies is the occupied bandwidth.

### 13.2 Measurement Equipment Used:

Refer to section 7.2 for details.

### 13.3 Test Set-up:

Refer to section 7.3 for details.

### 13.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% of the Span, VBW = 3 times RBW, Span= 50MHz.
4. Turn on the 99% bandwidth function, max reading..
5. Repeat above procedures until all frequency measured were complete.

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**13.5 Measurement Result:****802.11b**

<b>Frequency</b> <b>MHz</b>	<b>99%Bandwidth</b> <b>(MHz)</b>
2412	12.1557
2437	12.1937
2462	12.2413

**802.11g**

<b>Frequency</b> <b>MHz</b>	<b>99%Bandwidth</b> <b>(MHz)</b>
2412	16.7650
2437	16.6637
2462	16.8495

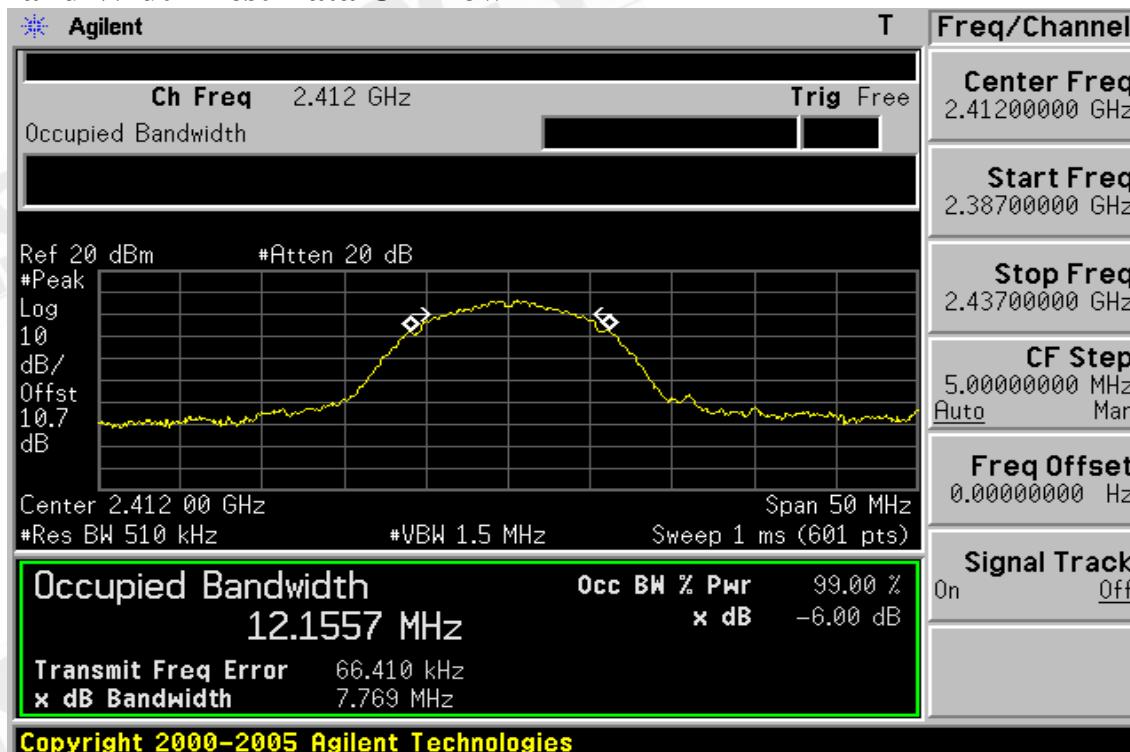
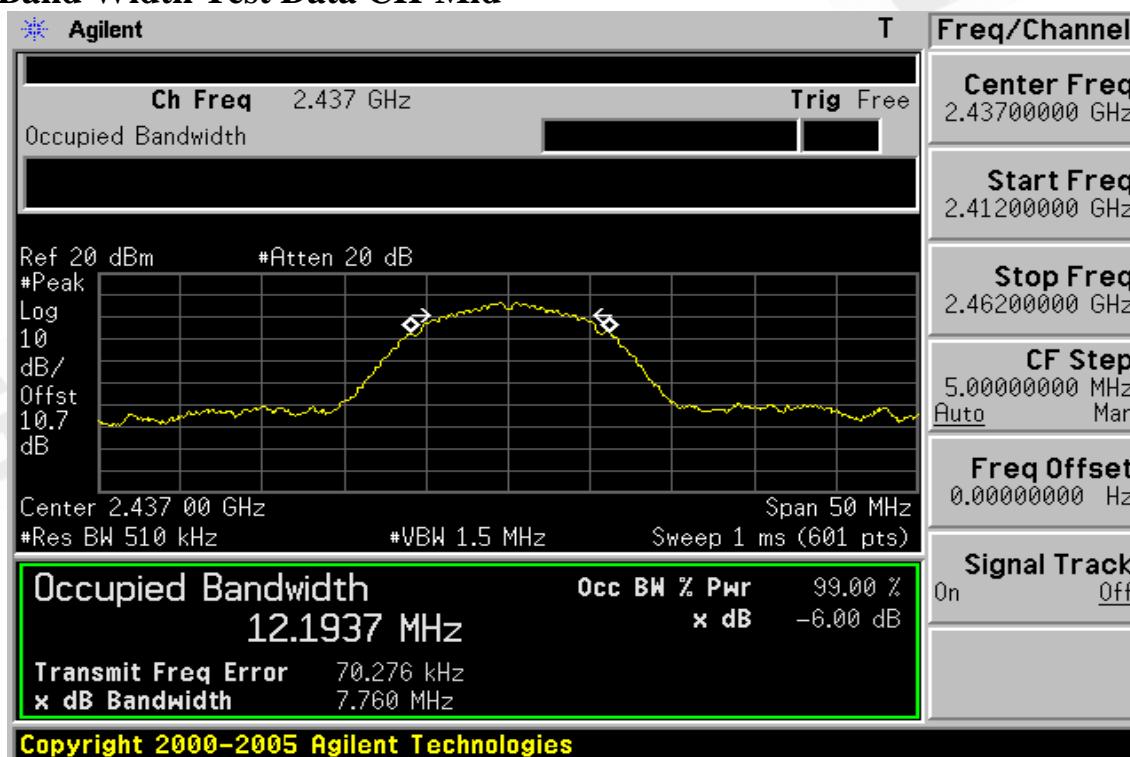
**802.11n\_20M**

<b>Frequency</b> <b>MHz</b>	<b>99%Bandwidth</b> <b>(MHz)</b>
2412	17.6158
2437	17.5932
2462	17.6106

Note: Refer to next page for plots.

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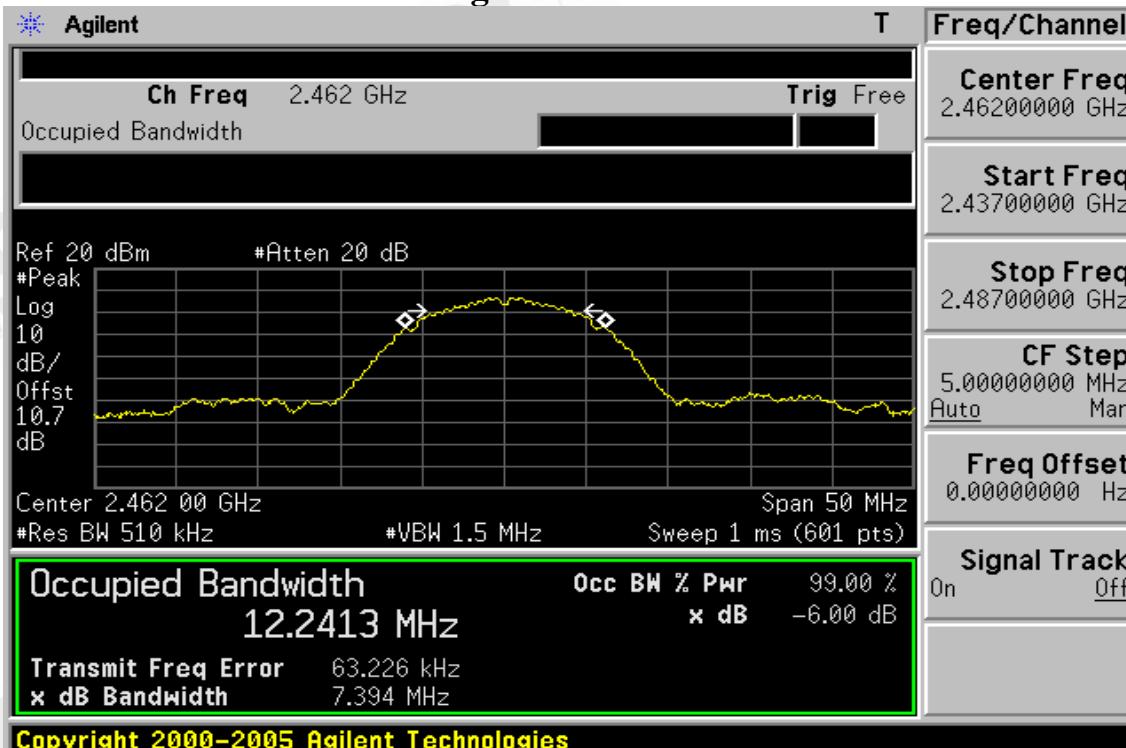
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**802.11b****99% Band Width Test Data CH-Low****99% Band Width Test Data CH-Mid**

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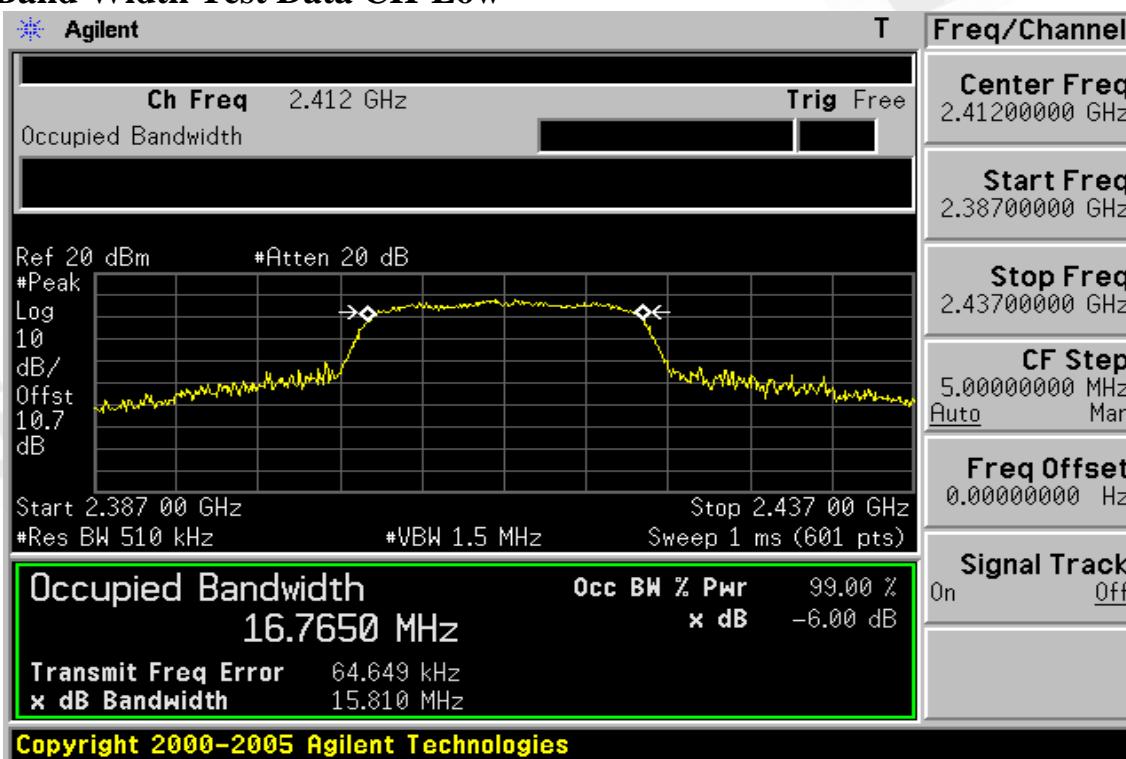
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## 99% Band Width Test Data CH-High



## 802.11g

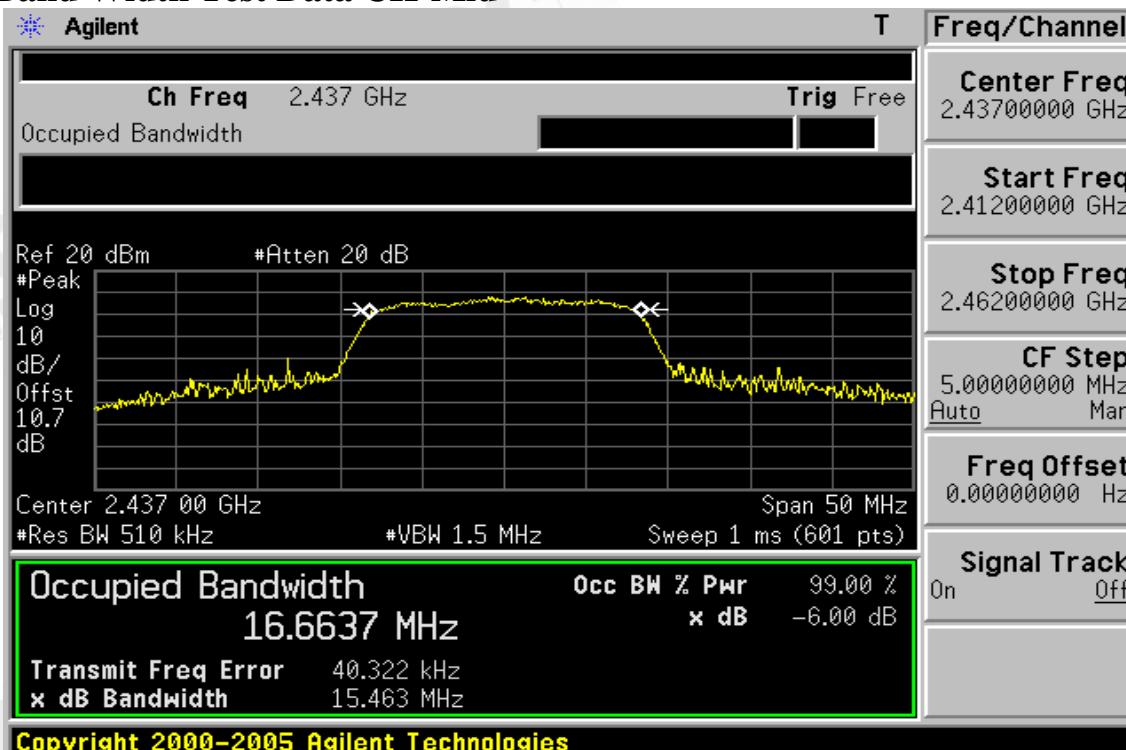
## 99% Band Width Test Data CH-Low



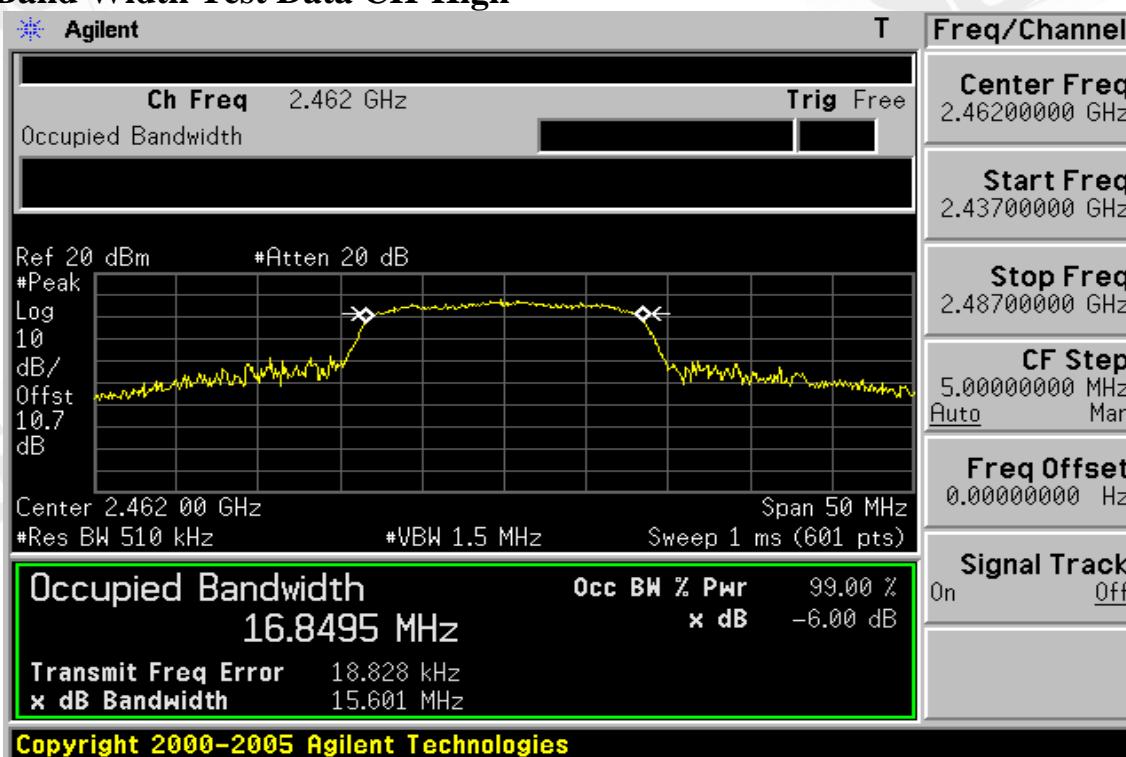
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## 99% Band Width Test Data CH-Mid

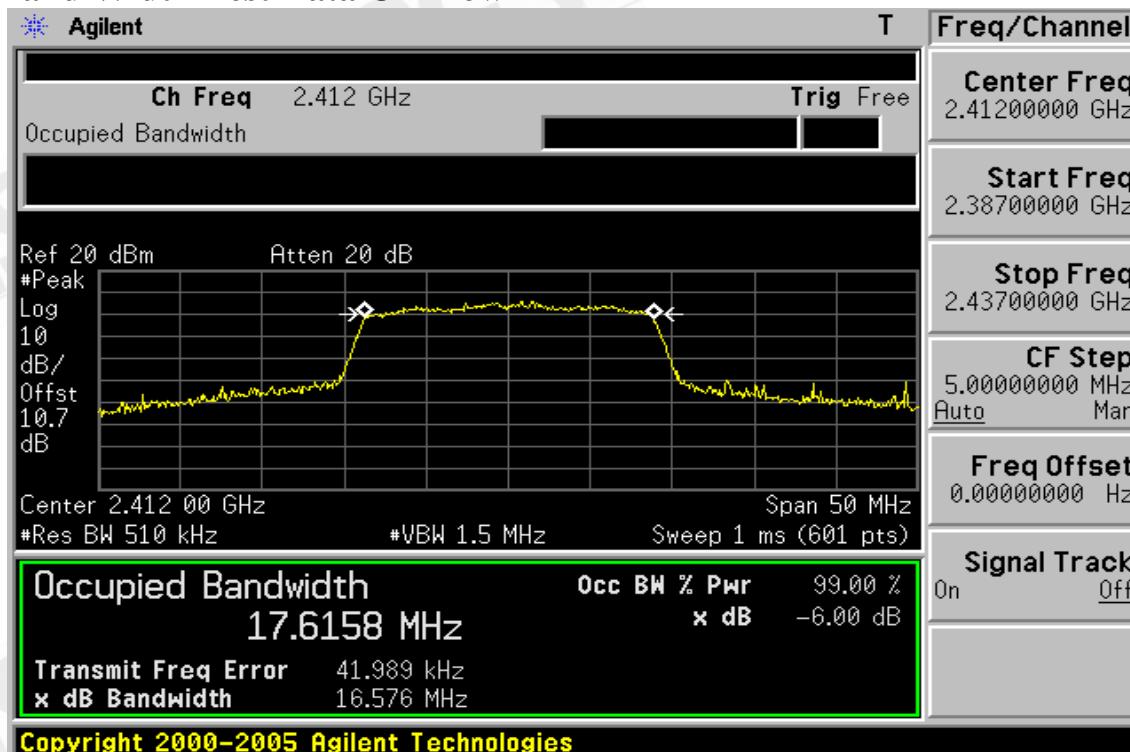
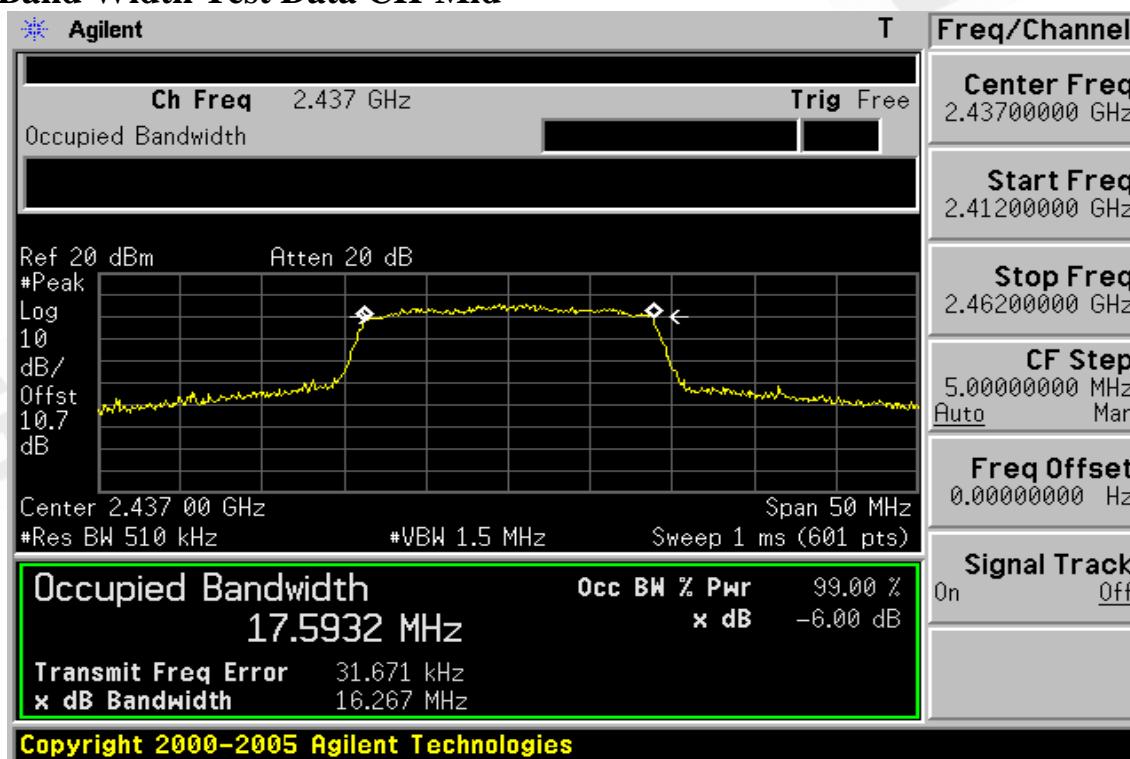


## 99% Band Width Test Data CH-High



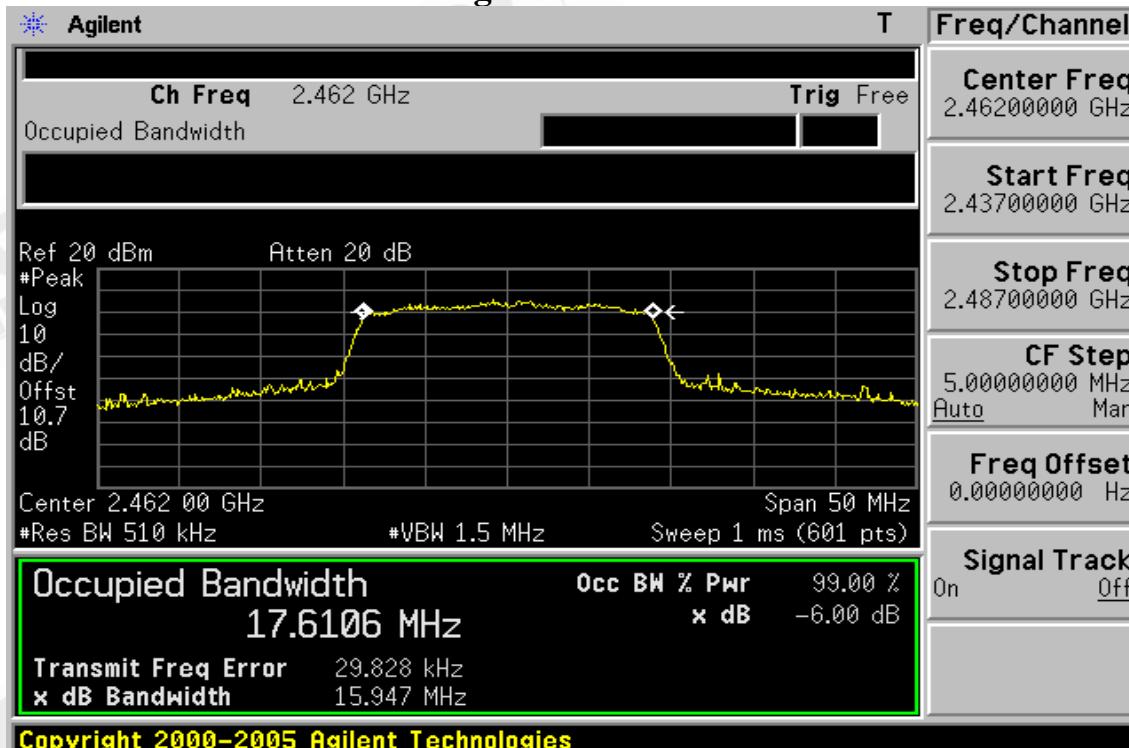
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**802.11n\_20M**  
**99% Band Width Test Data CH-Low****99% Band Width Test Data CH-Mid**

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**99% Band Width Test Data CH-High**

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## **APPENDIX 1**

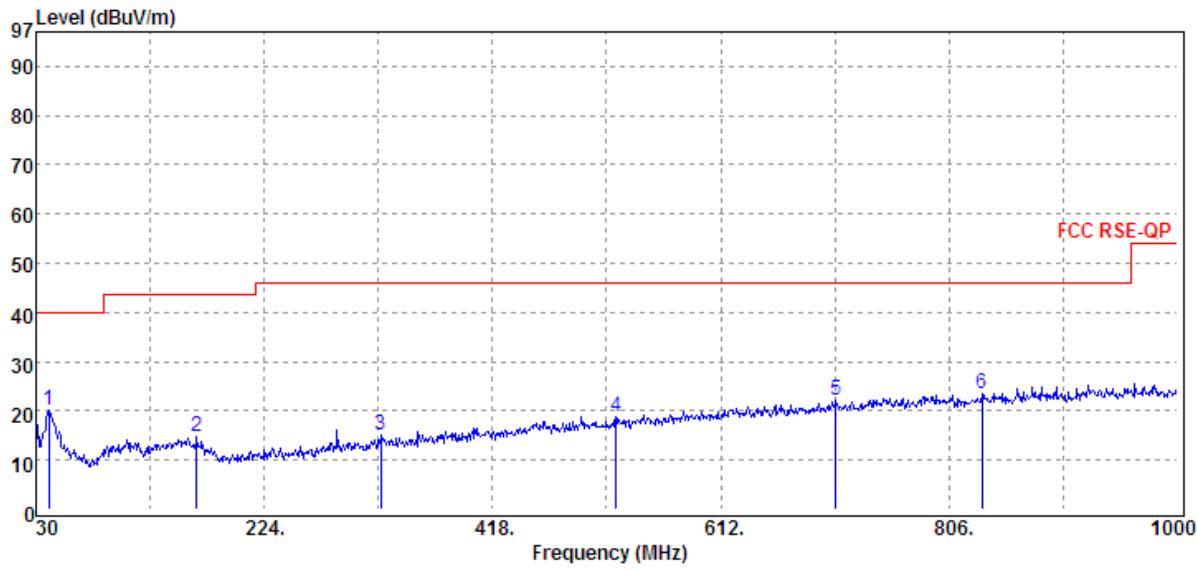
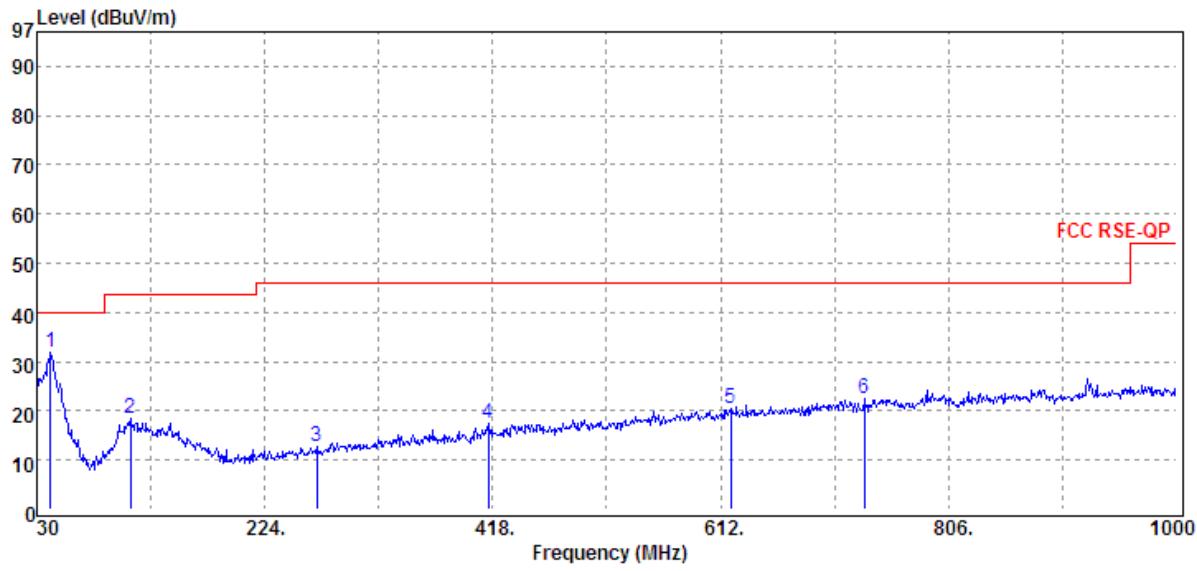
# **MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION**

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**Radiated Spurious Emission Measurement photos Result (below 1GHz)**

Operation Band :802.11b      Test Date :2012-06-07  
Fundamental Frequency :2412 MHz      Temp./Humi. :23.6 deg\_C / 67 RH  
Operation Mode :TX      Engineer :Jay  
EUT Pol. :E2      Measurement Antenna Pol. :Ver. / Hor.

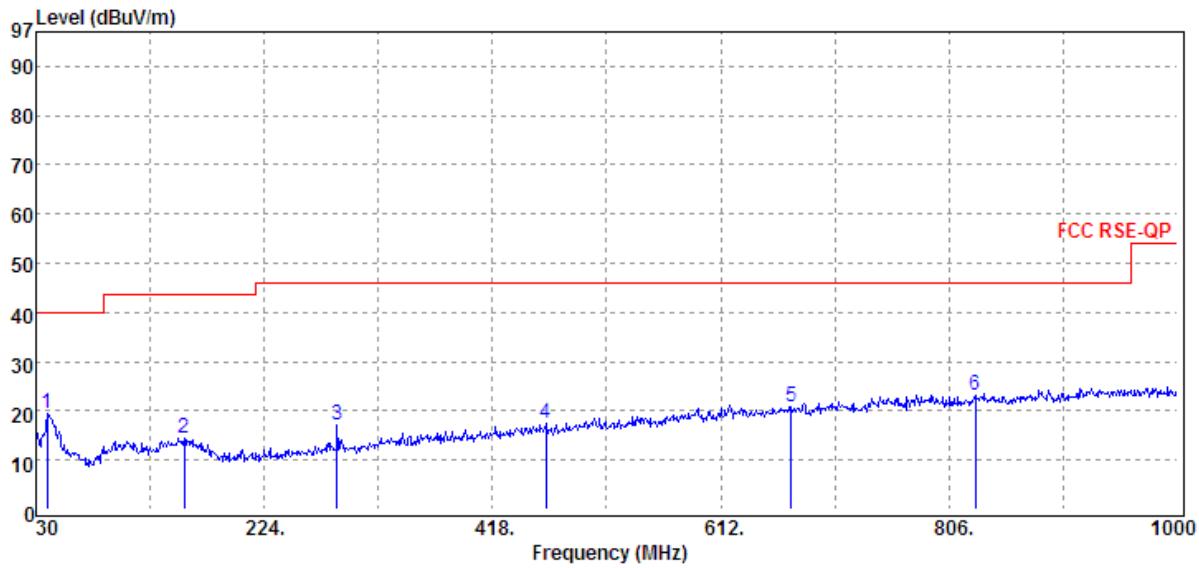
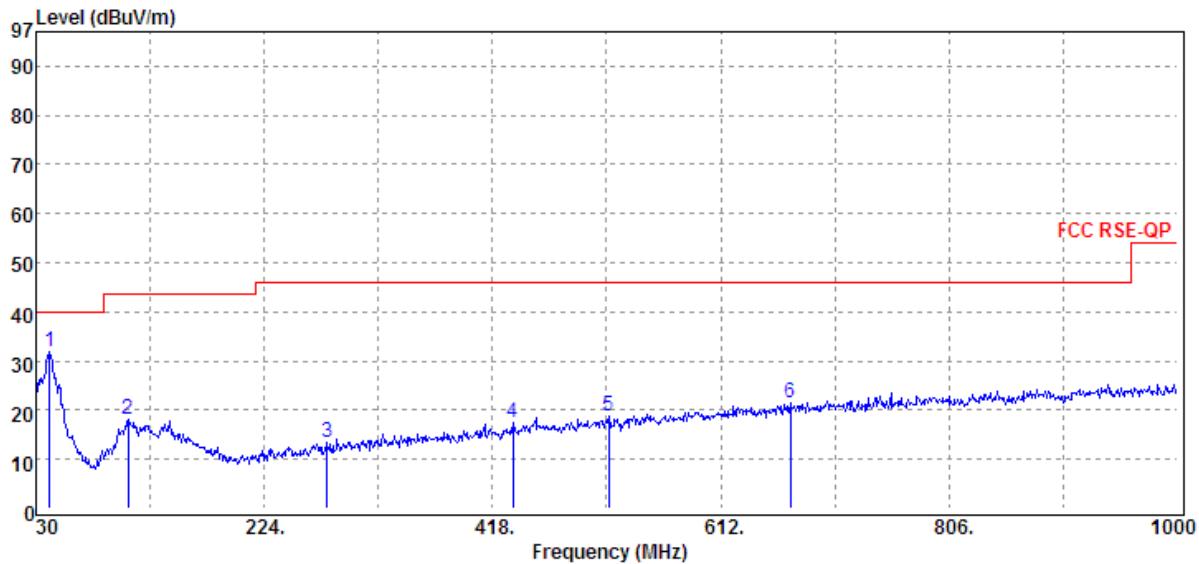


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Operation Band :802.11b  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

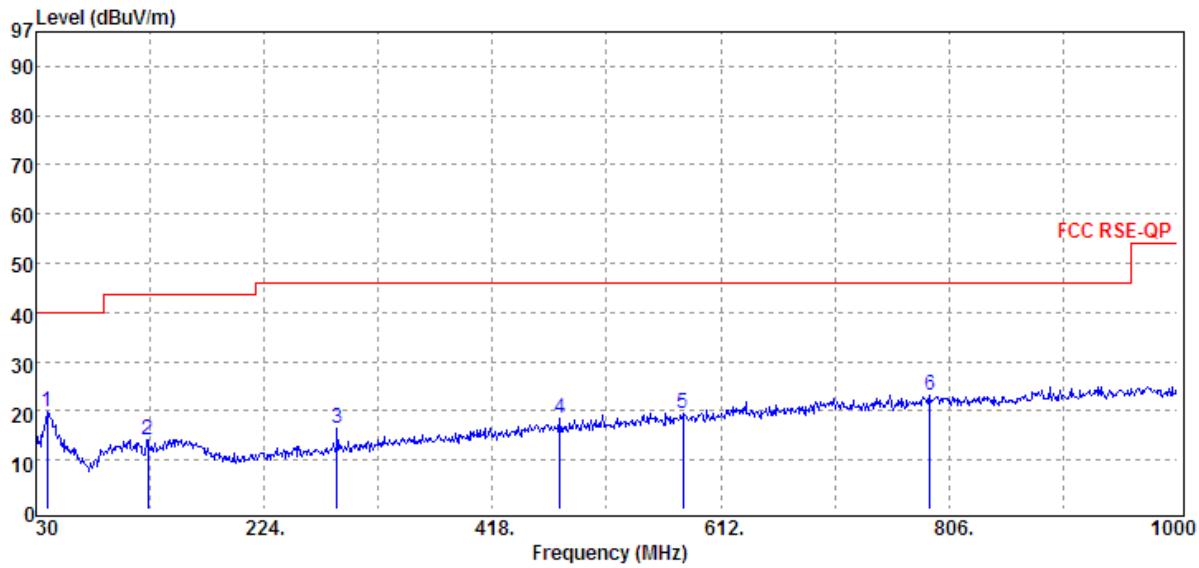
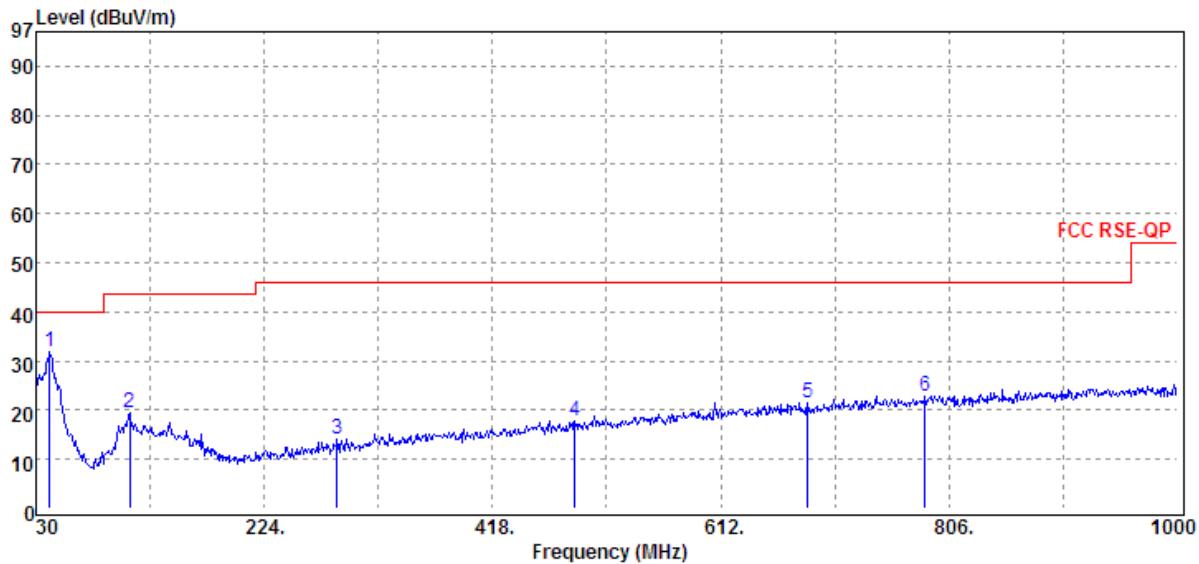


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Operation Band :802.11b  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

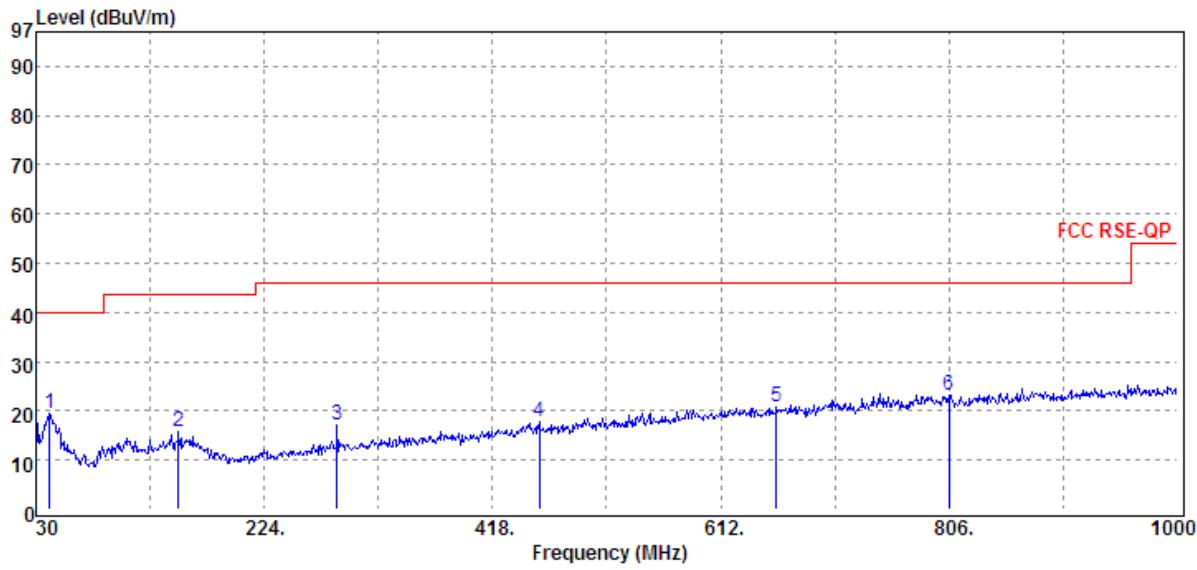
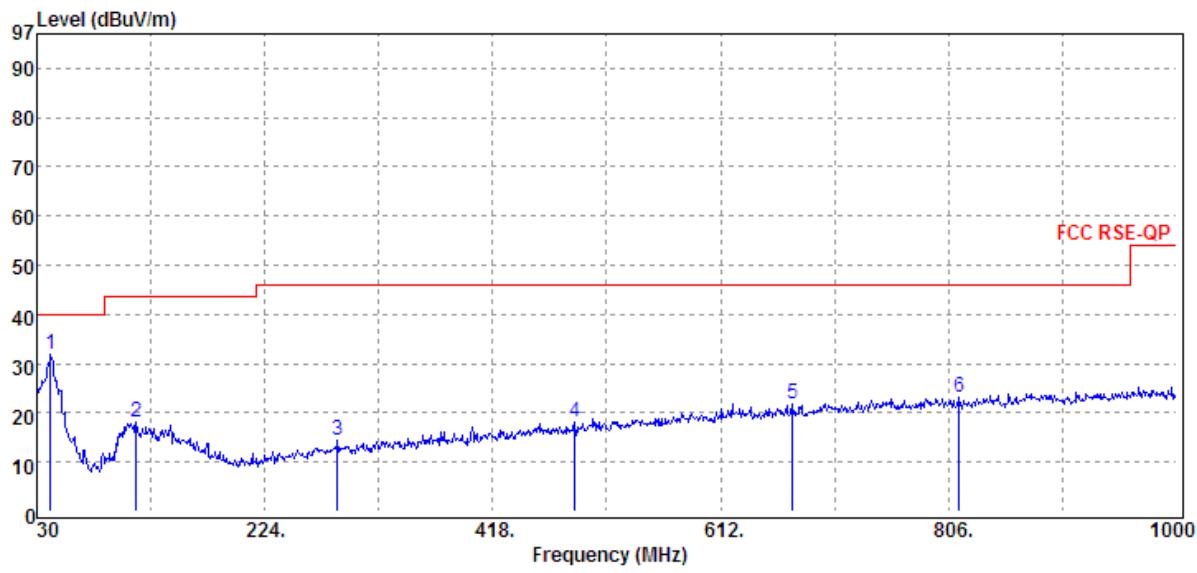


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Operation Band :802.11g  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2

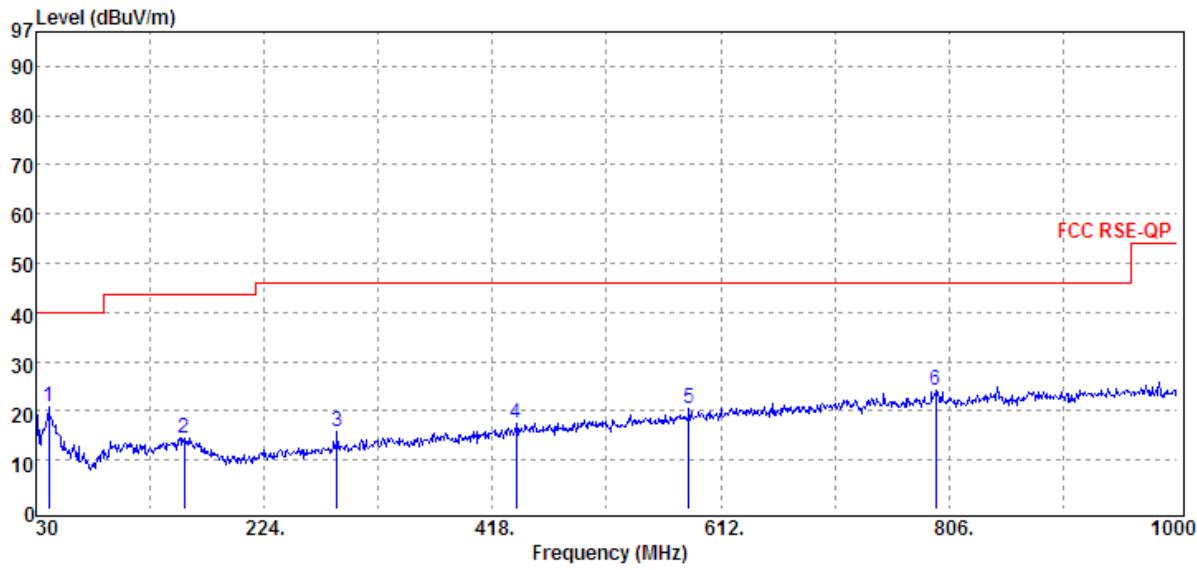
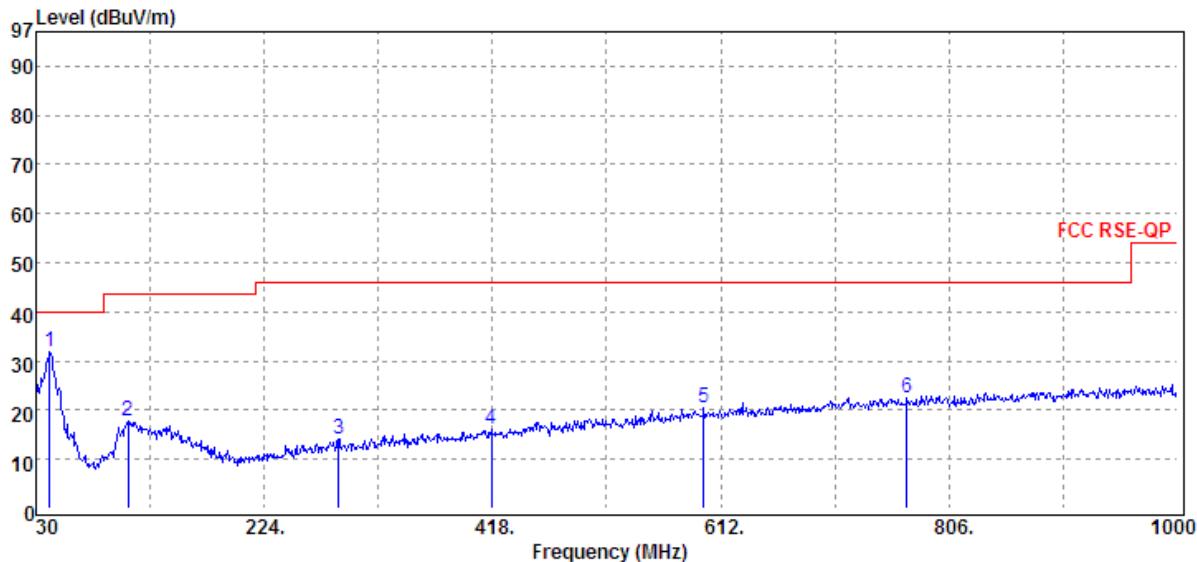
Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.



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Operation Band :802.11g  
Fundamental Frequency :2437  
Operation Mode :TX  
EUT Pol. :E2  
Test Date :2012-05-07  
Temp./Humi. :27 deg\_C / 66 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

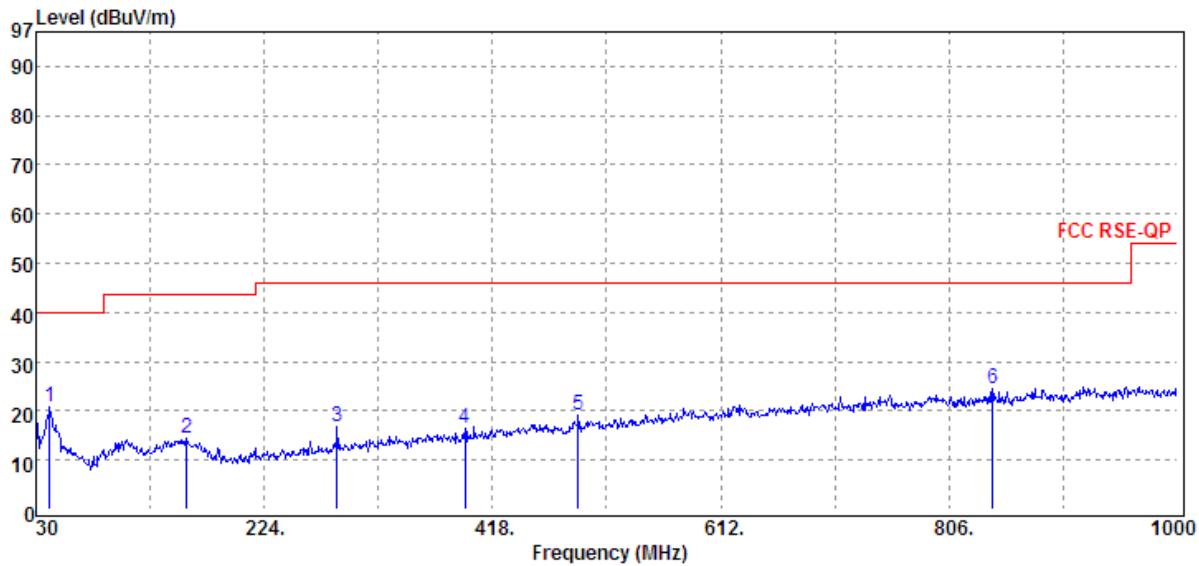
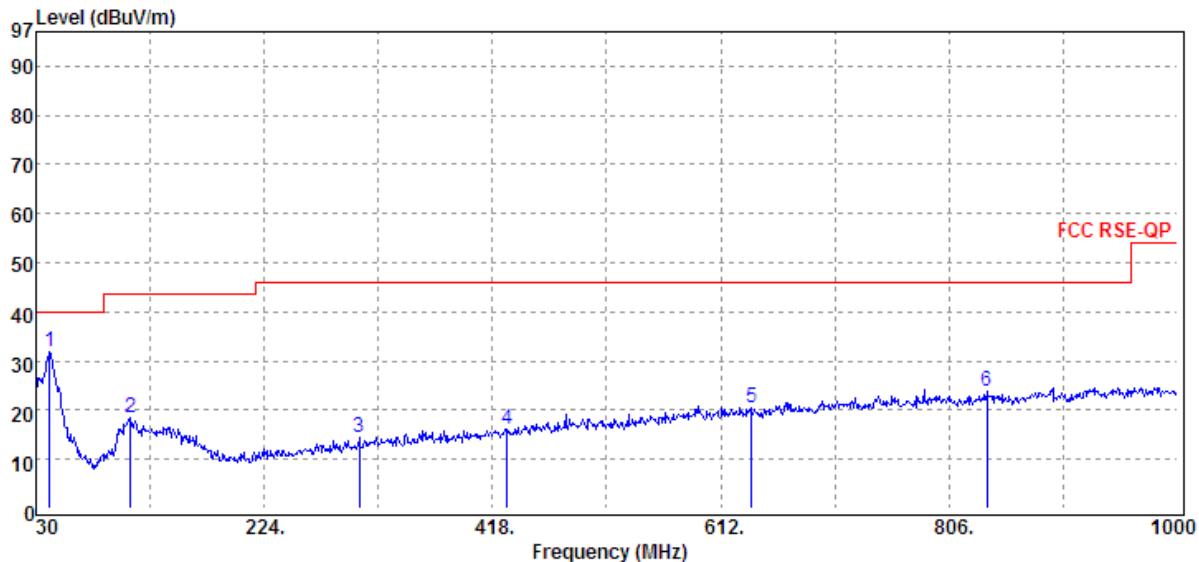


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Operation Band :802.11g  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

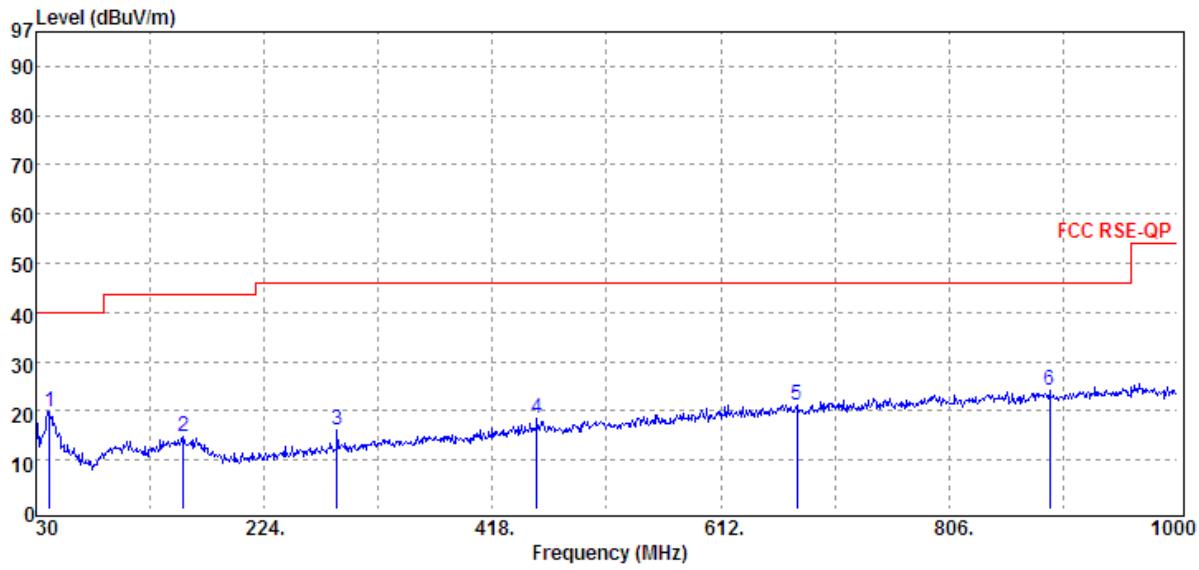
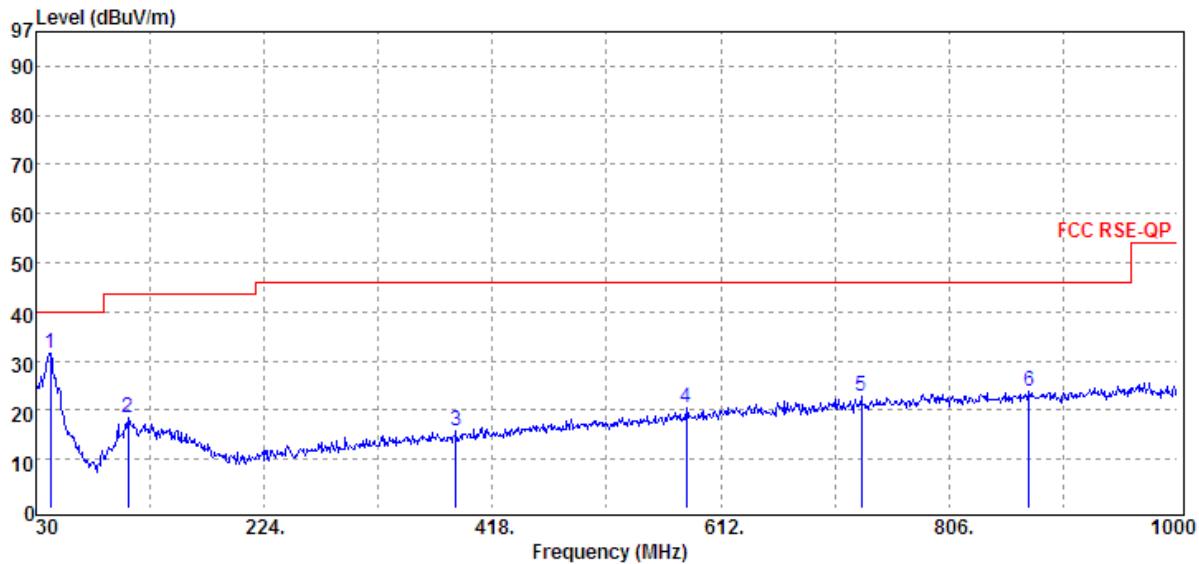


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Operation Band :802.11n  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

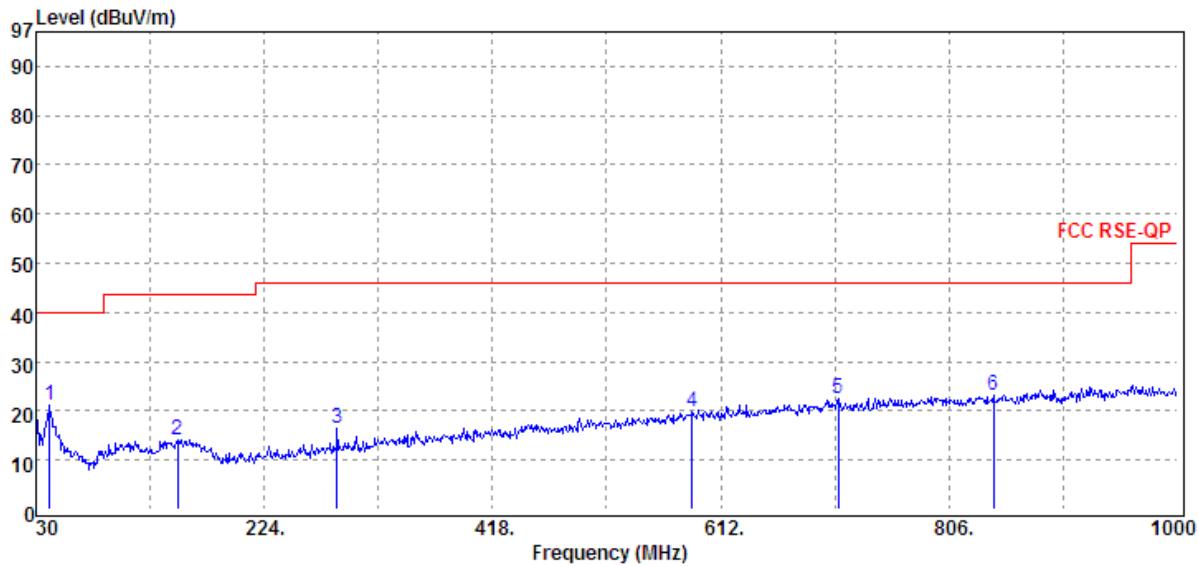
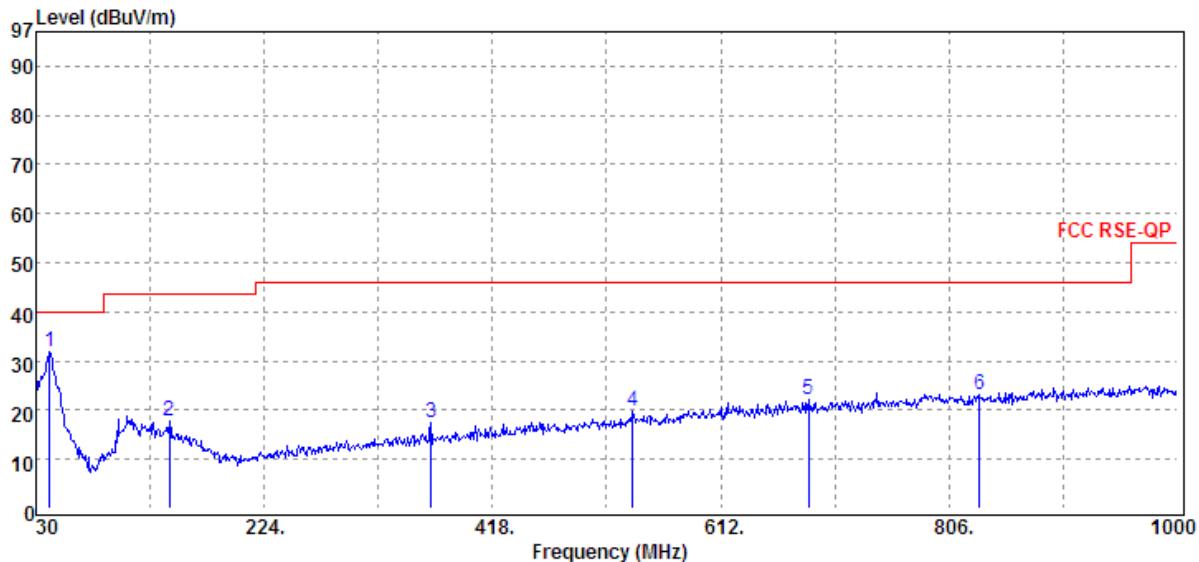


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Operation Band :802.11n  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2

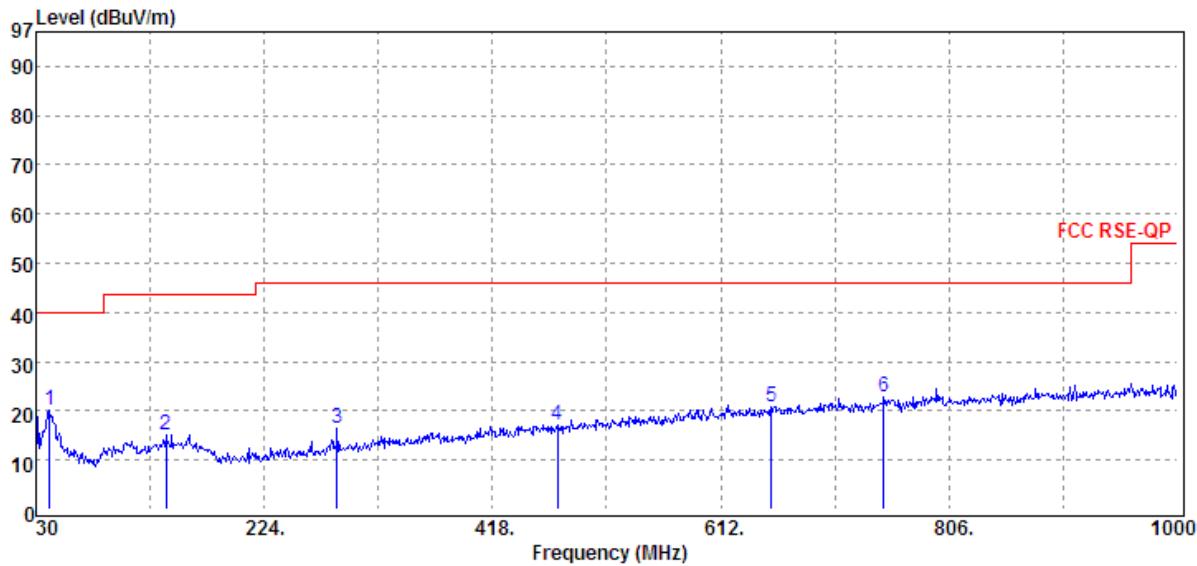
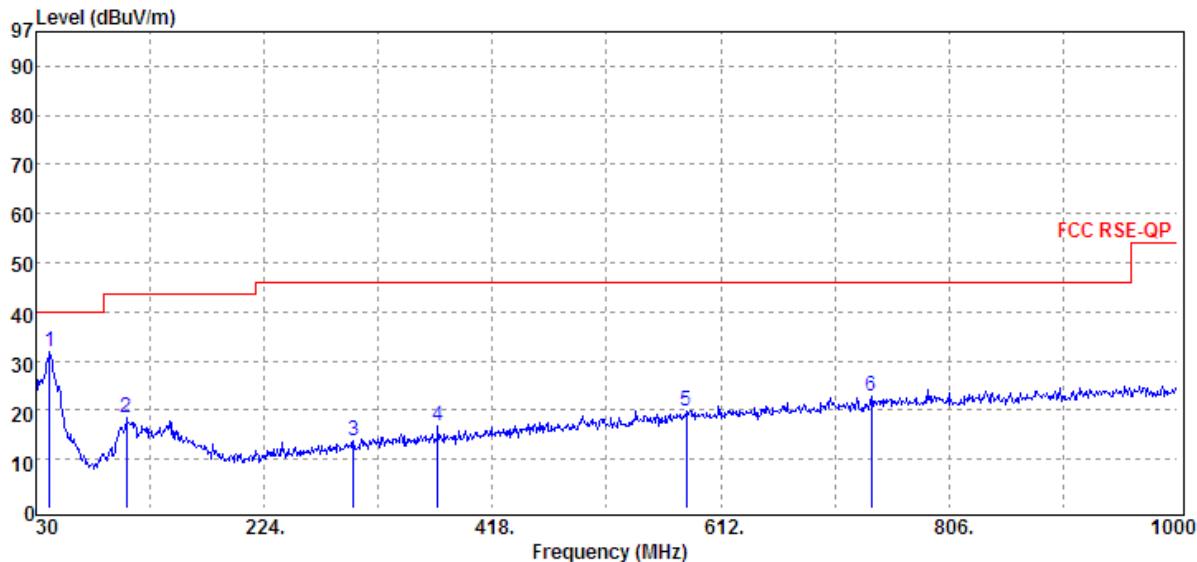
Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.



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Operation Band :802.11n  
Fundamental Frequency :2437  
Operation Mode :TX  
EUT Pol. :E2  
Test Date :2012-06-07  
Temp./Humi. :27 deg\_C / 66 RH  
Engineer :Jay  
Measurement Antenna Pol. :Ver. / Hor.

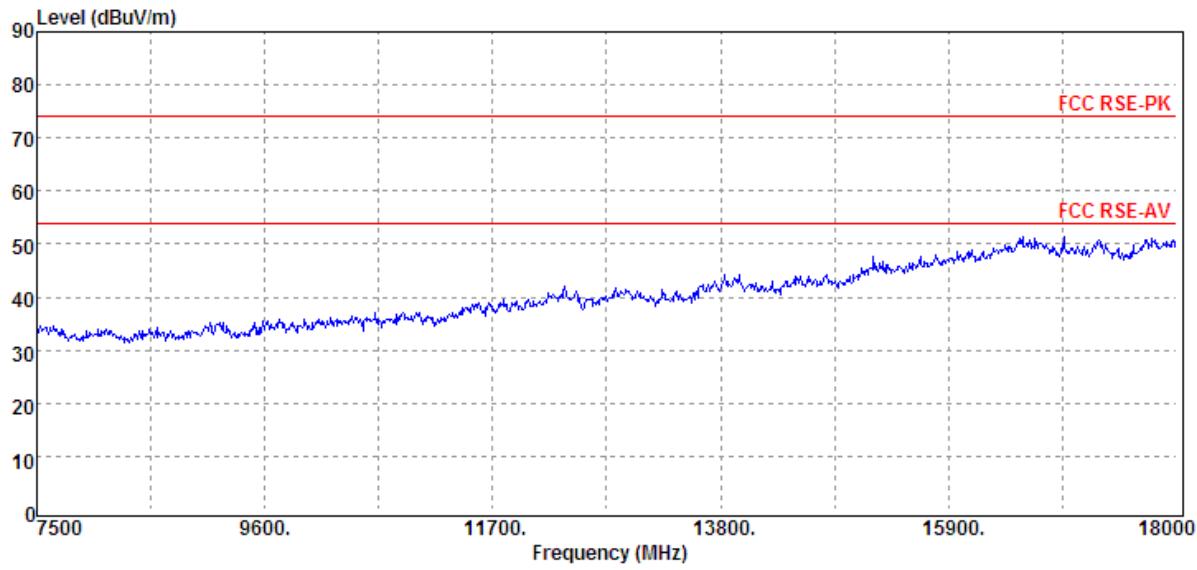
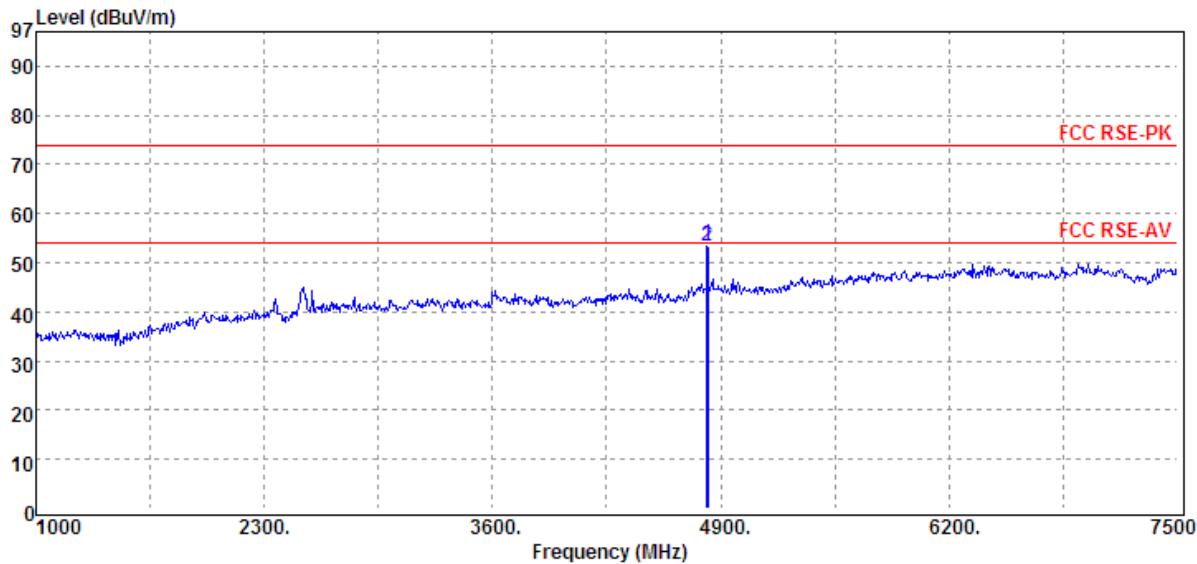


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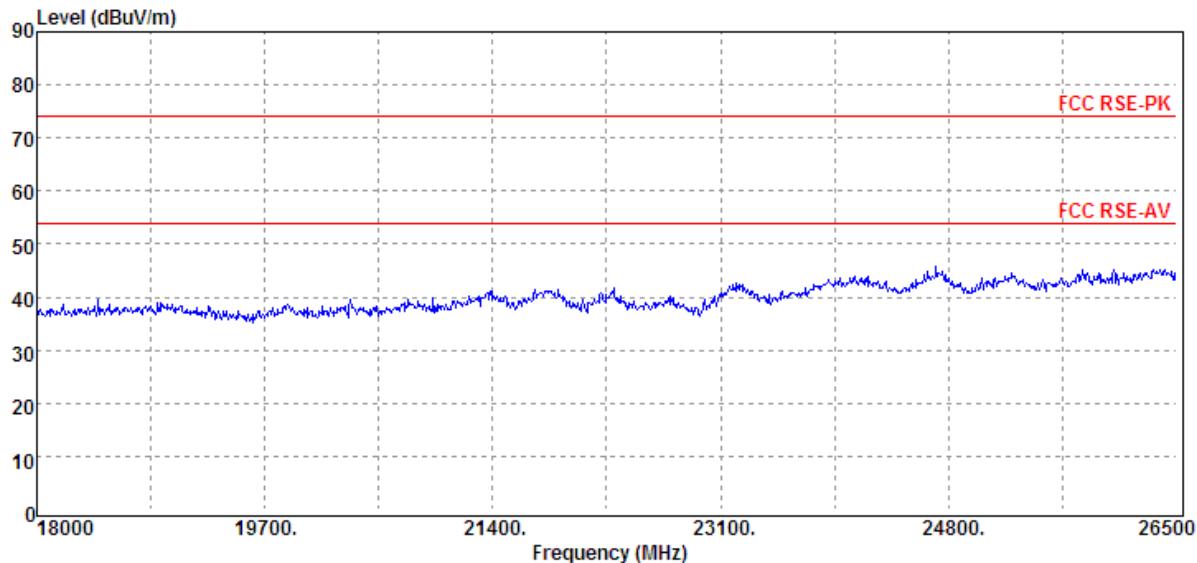
**Radiated Spurious Emission Measurement photos Result (above 1GHz)**

Operation Band	:802.11b	Test Date	:2012-06-07
Fundamental Frequency	:2412 MHz	Temp./Humi.	:23.6 deg_C / 67 RH
Operation Mode	:TX	Engineer	:Jay
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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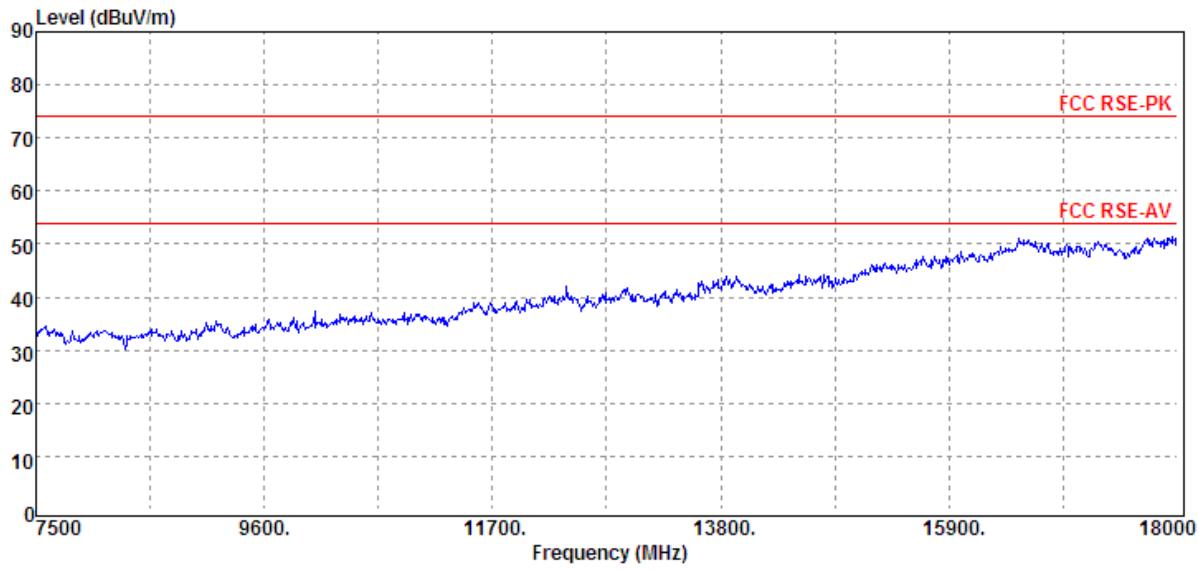
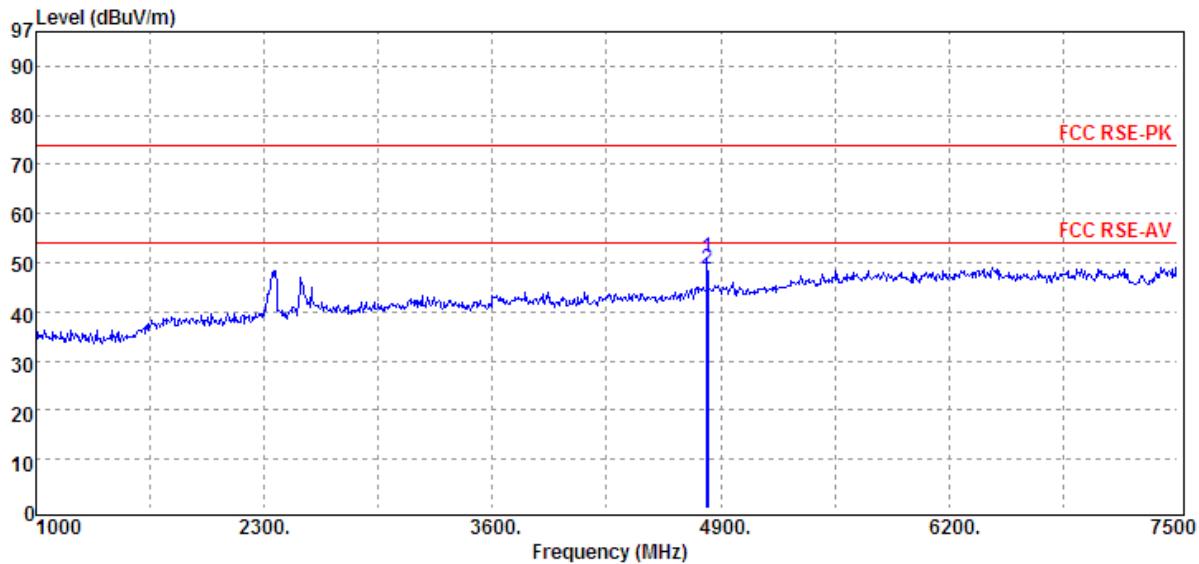


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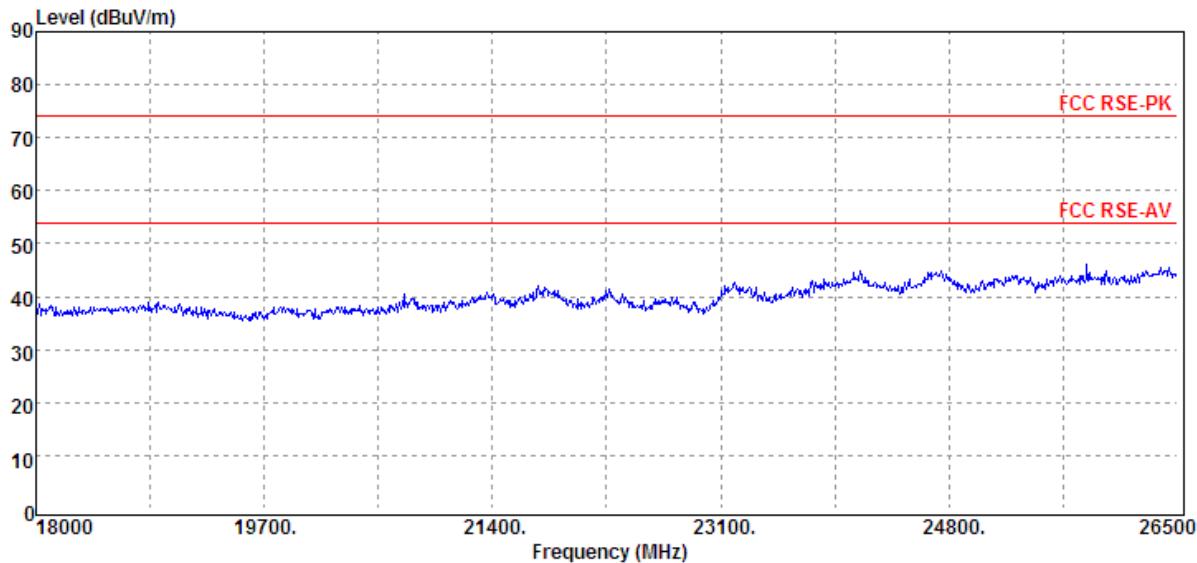
Operation Band :802.11b  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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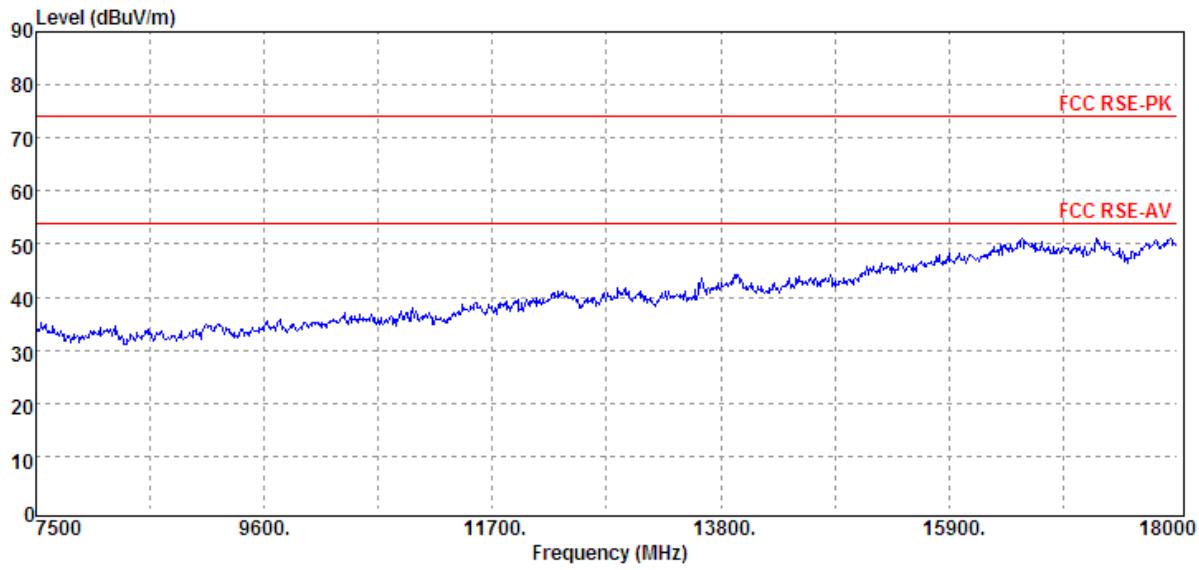
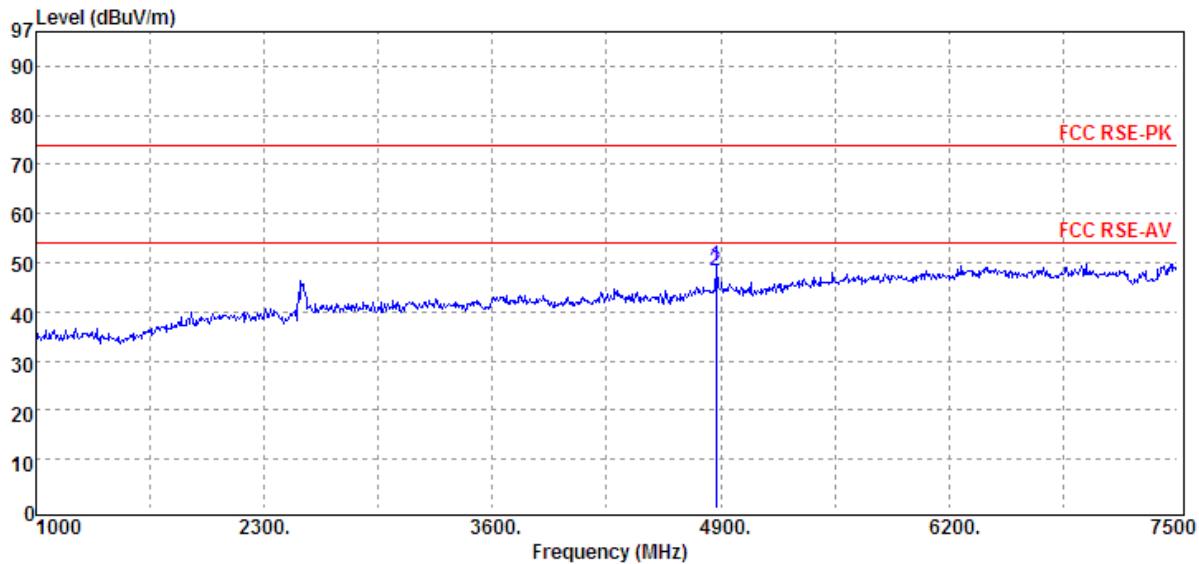


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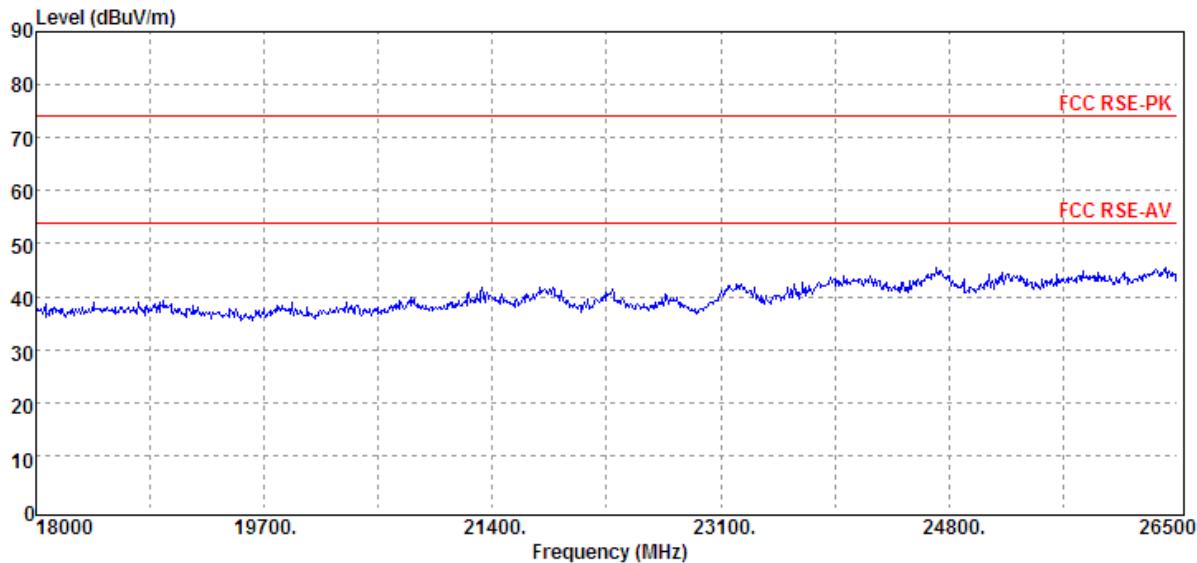
Operation Band :802.11b  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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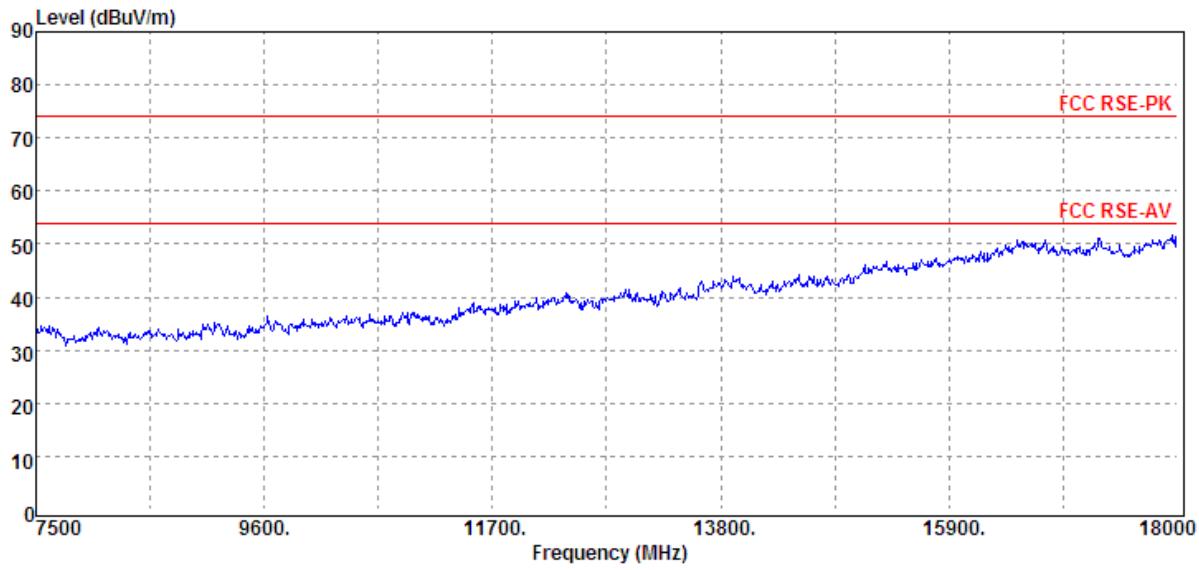
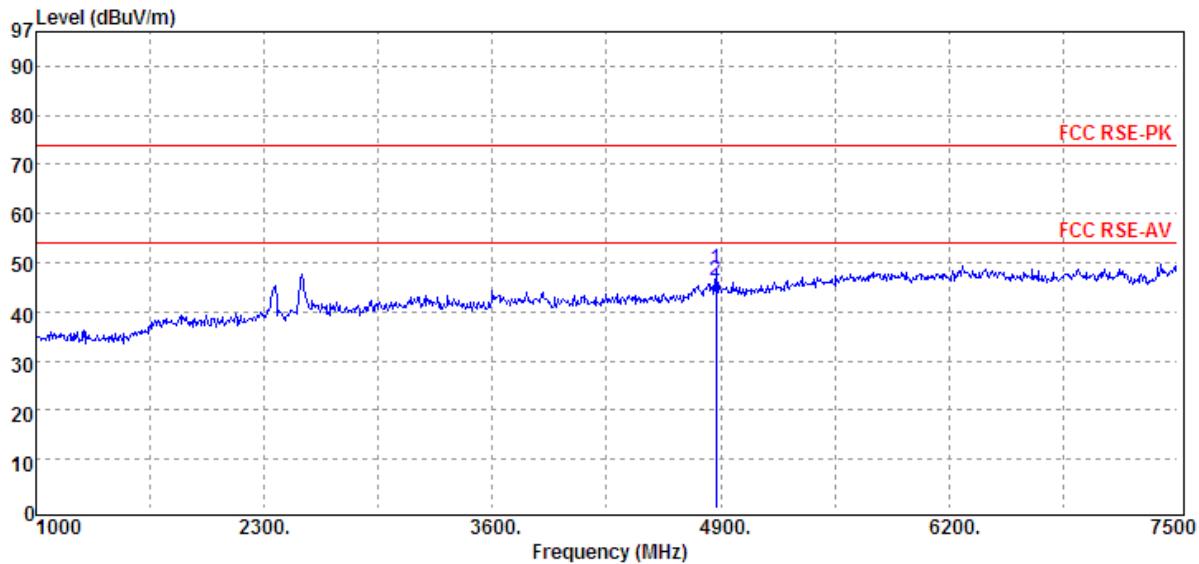


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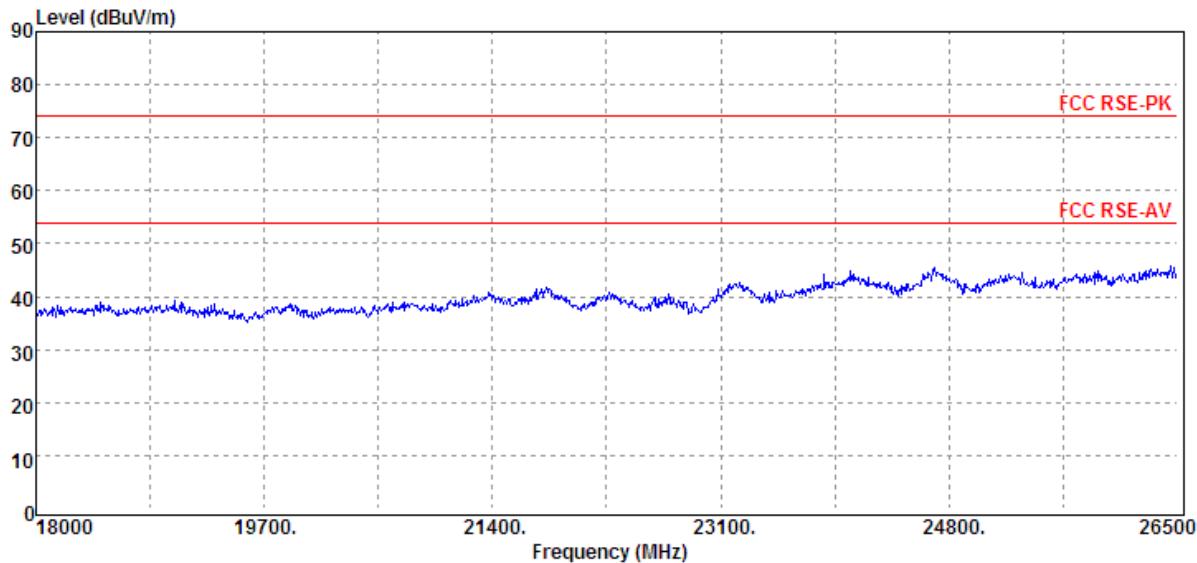
Operation Band :802.11b  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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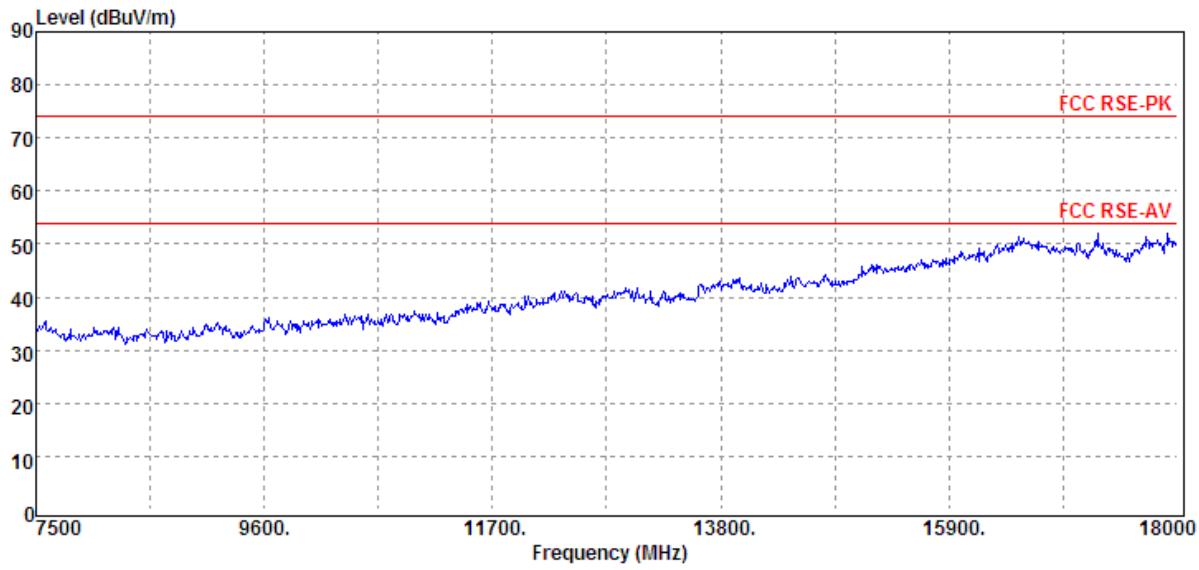
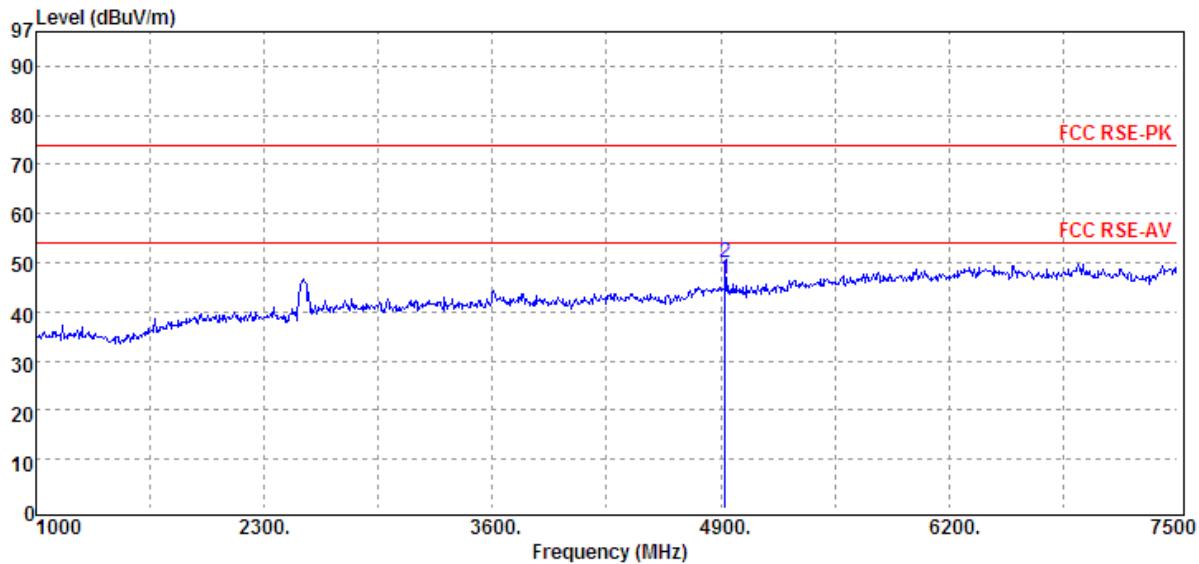


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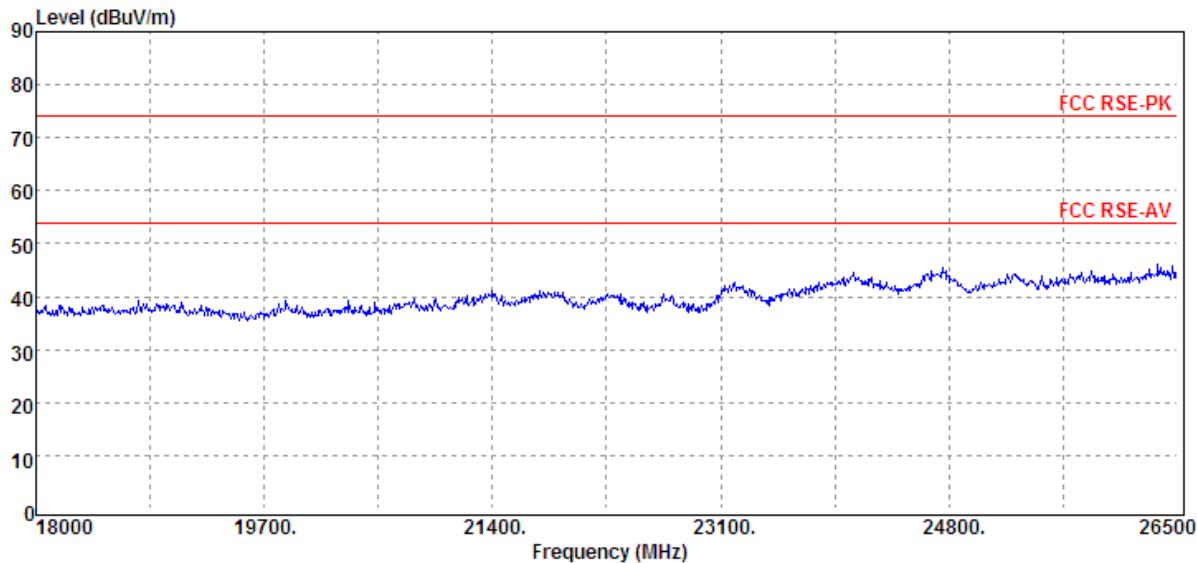
Operation Band :802.11b  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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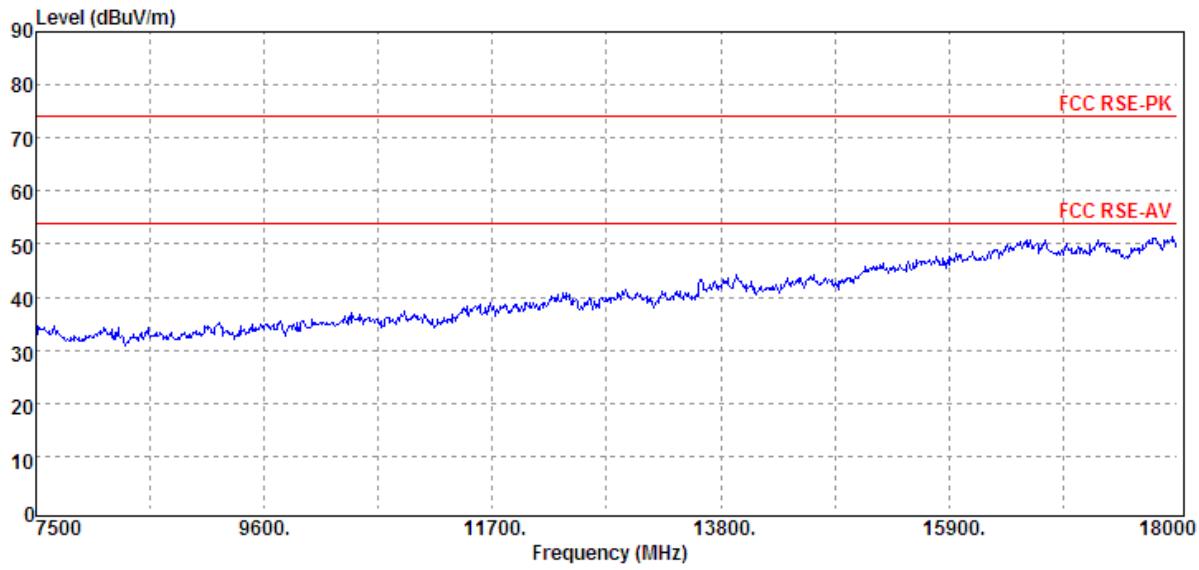
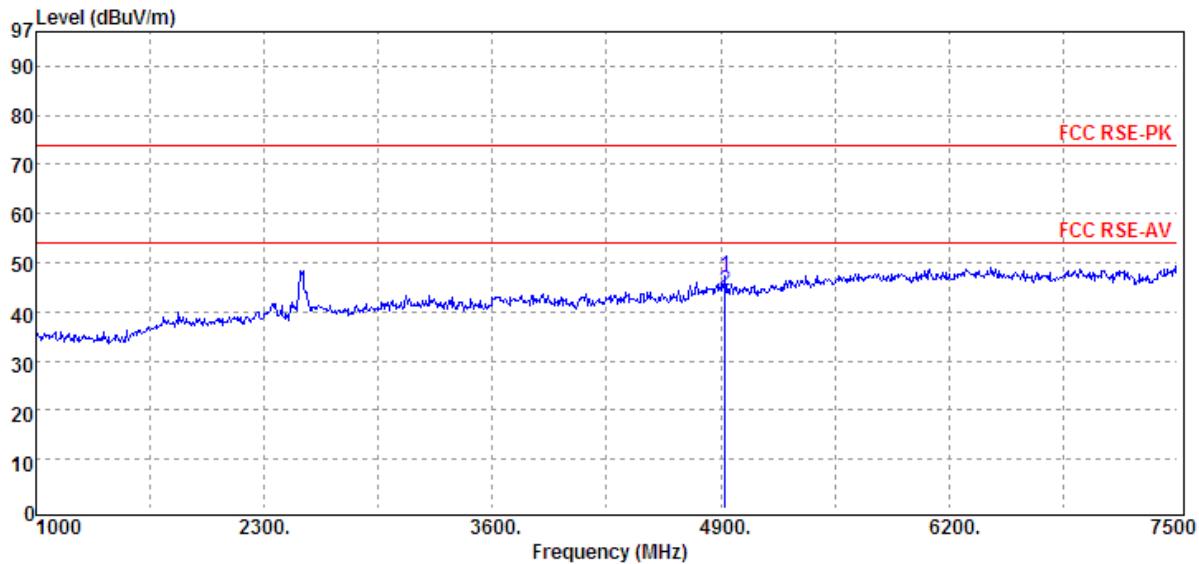


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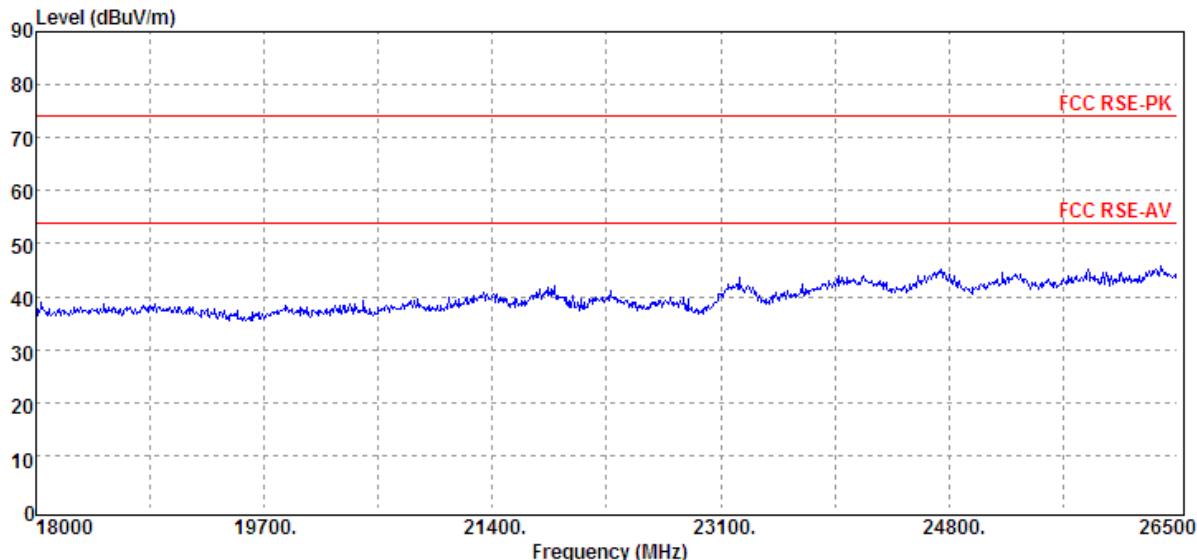
Operation Band :802.11b  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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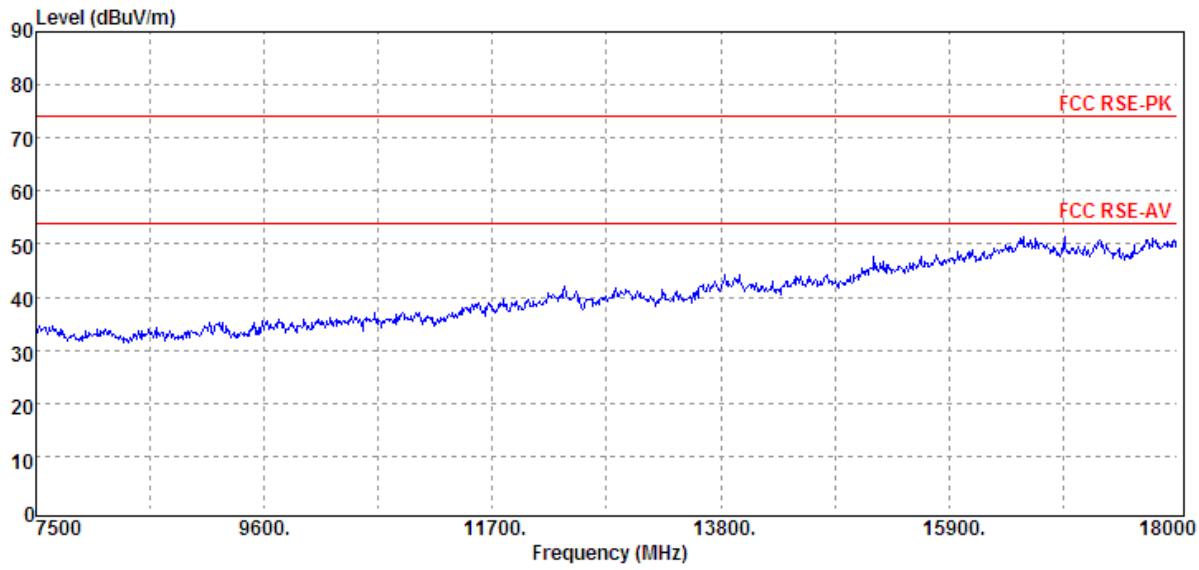
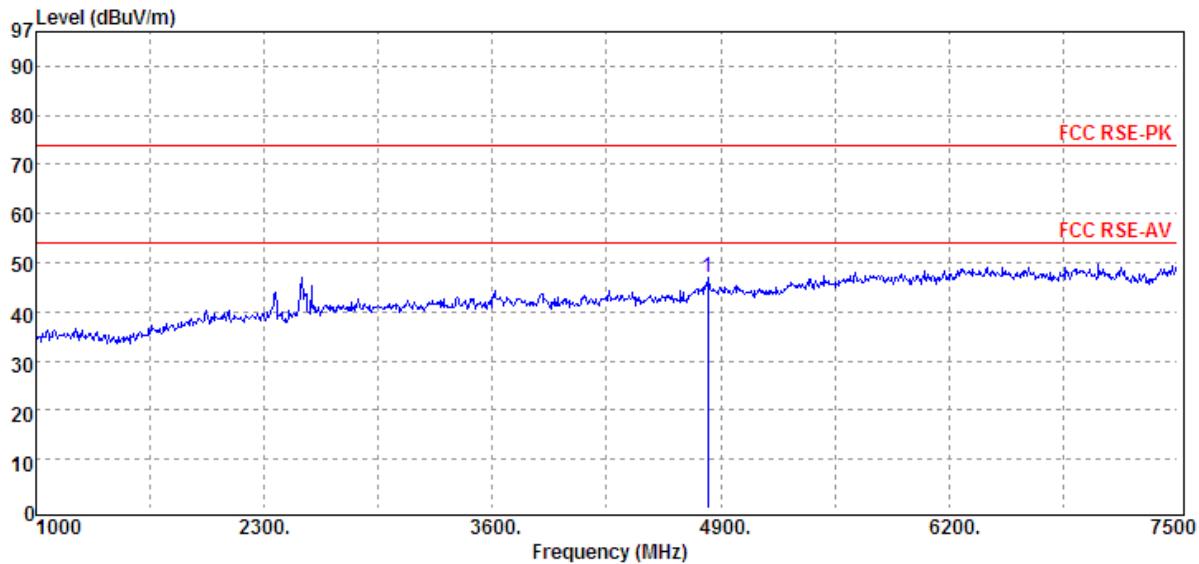


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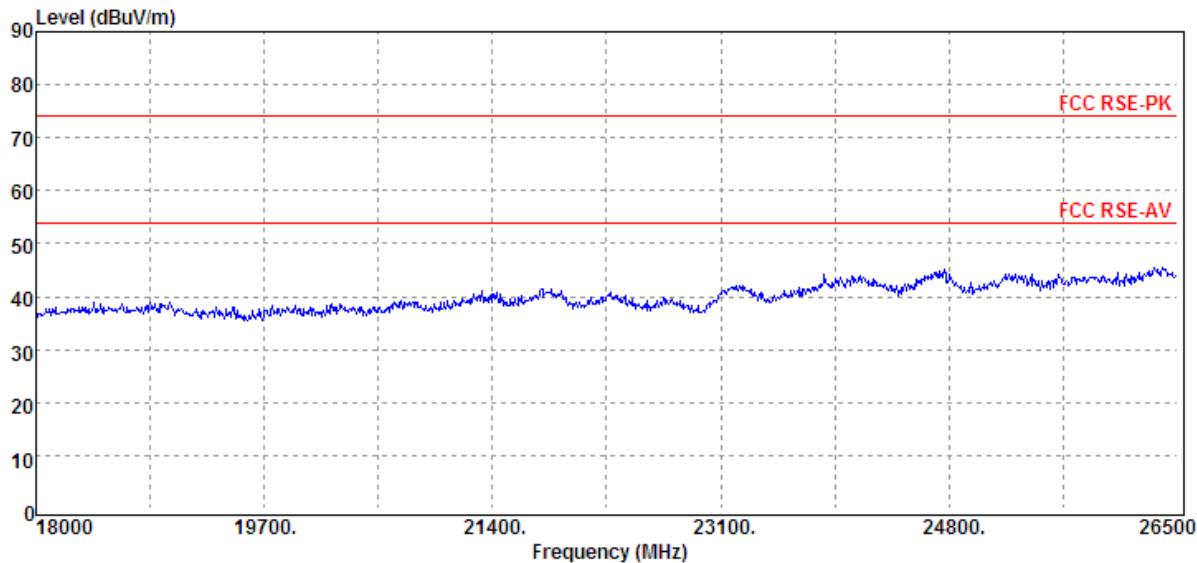
Operation Band :802.11g  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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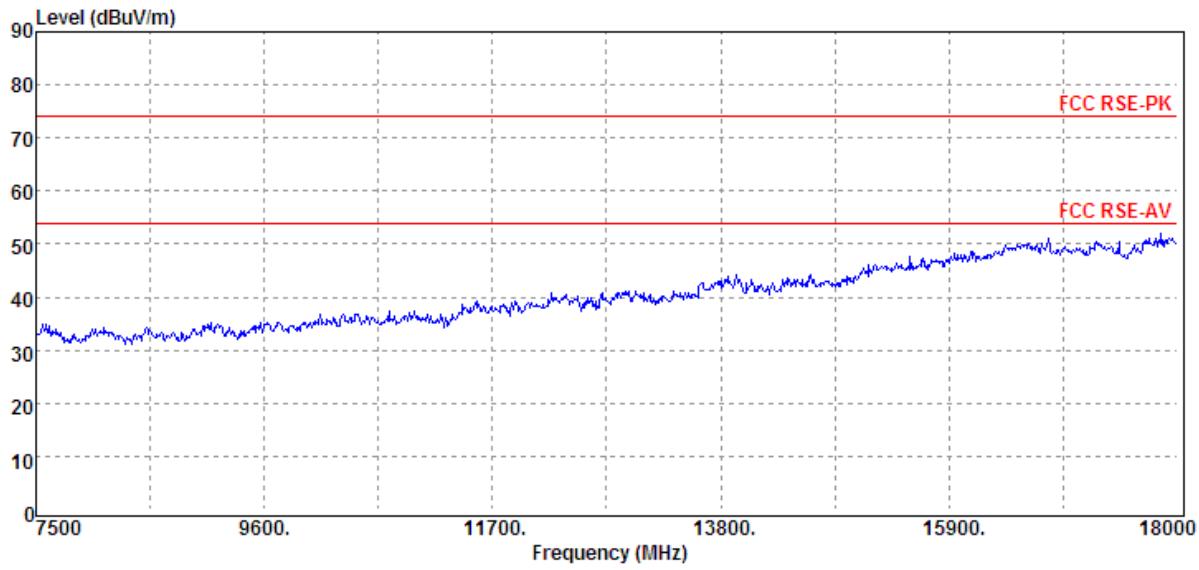
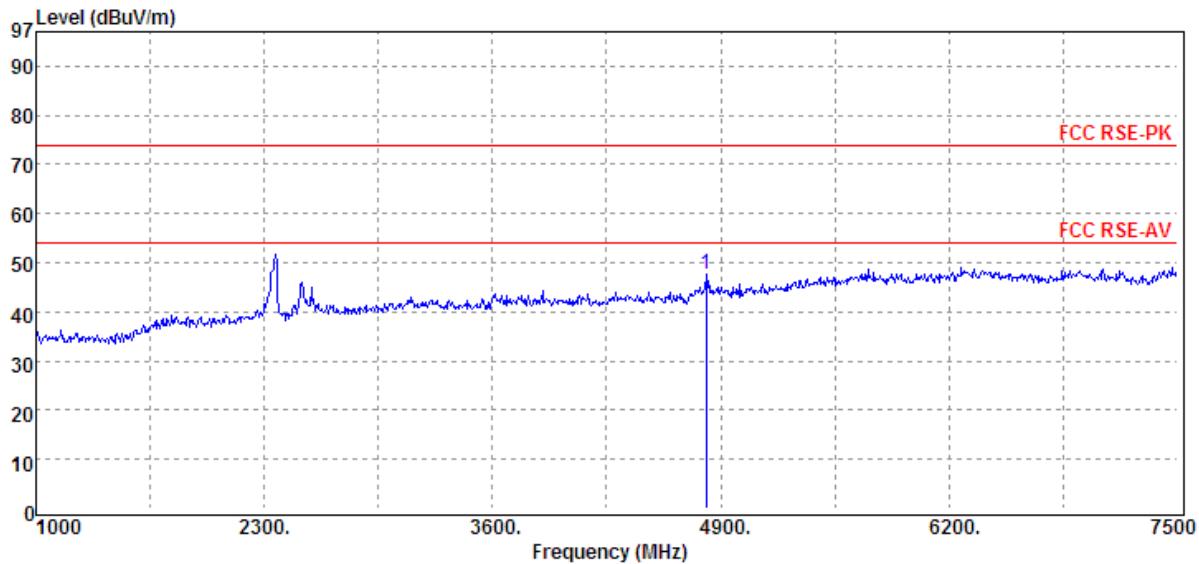


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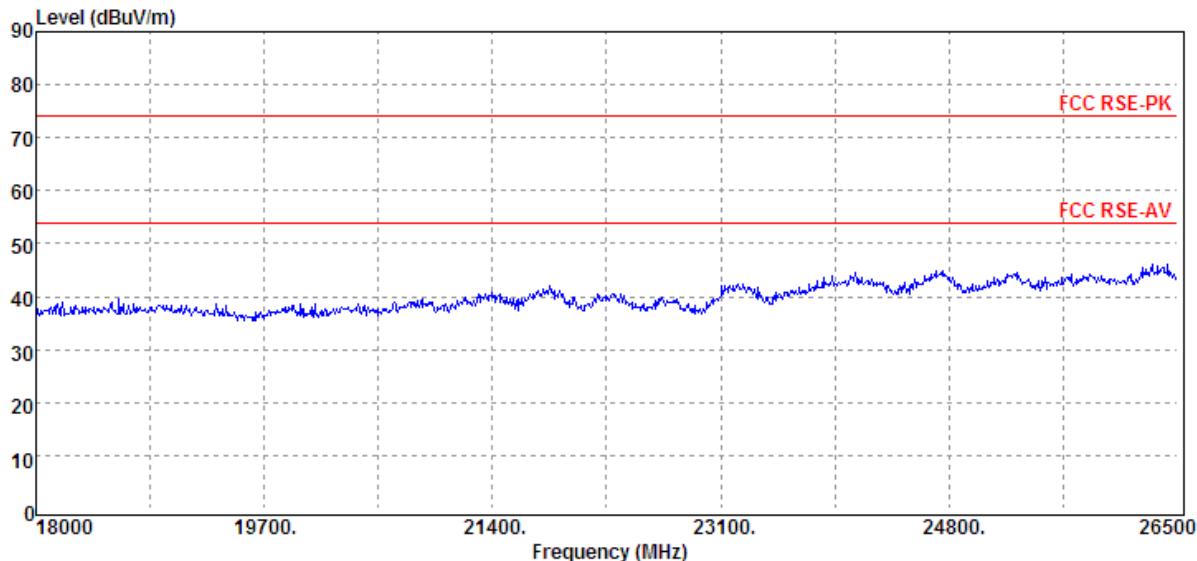
Operation Band :802.11g  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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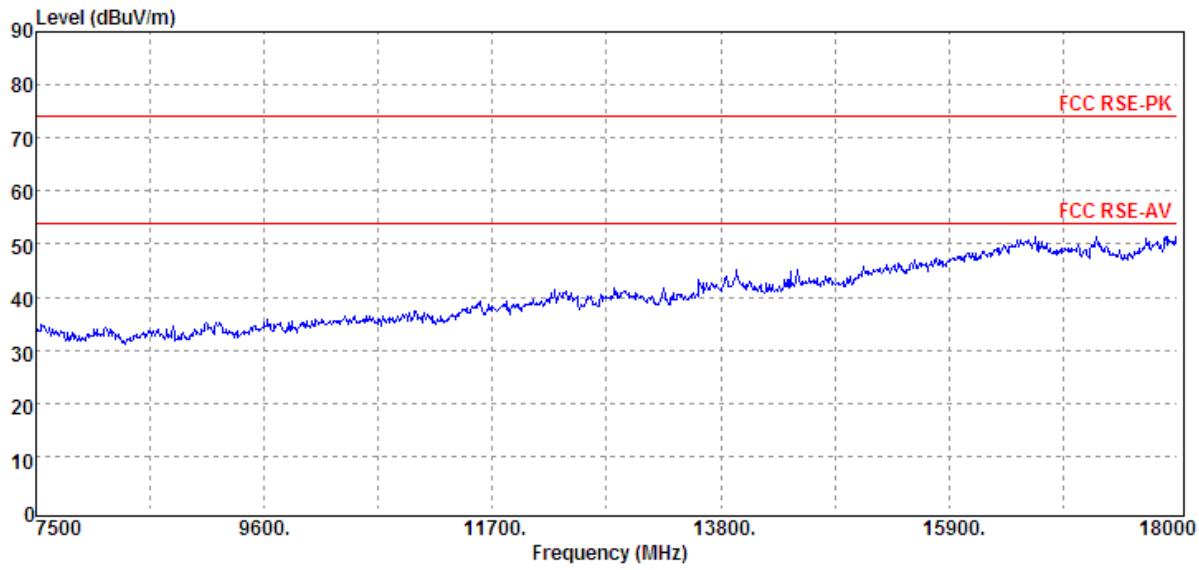
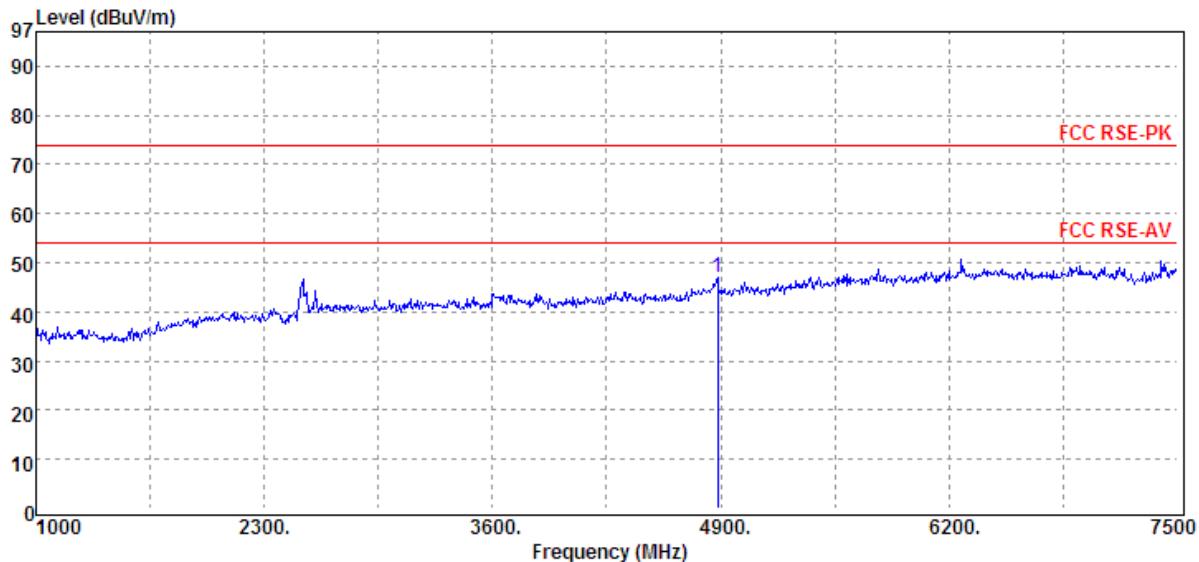


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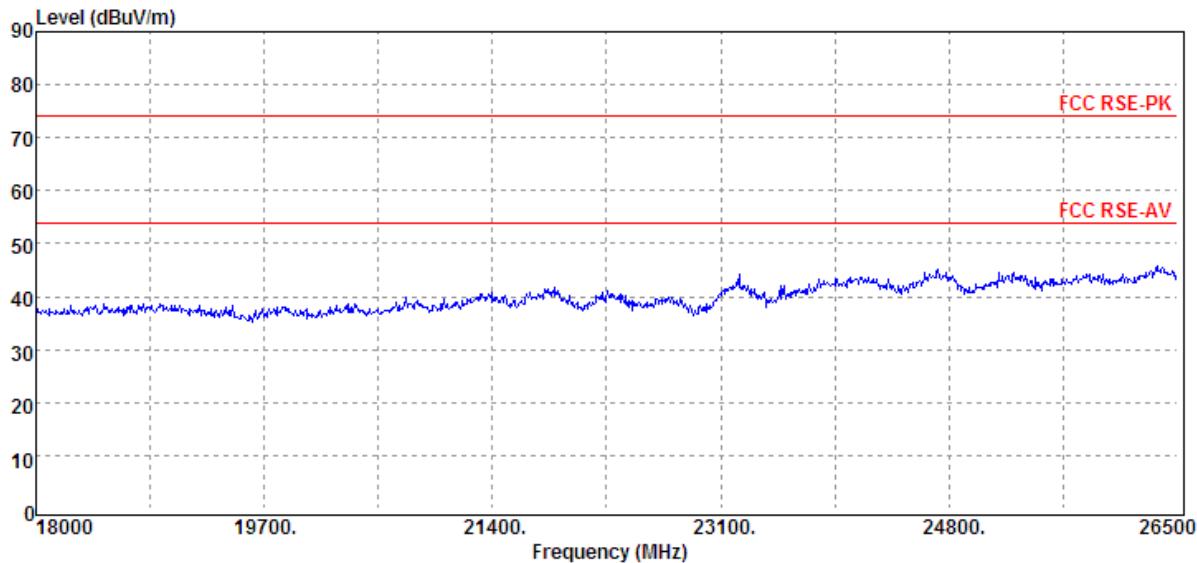
Operation Band :802.11g  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.5 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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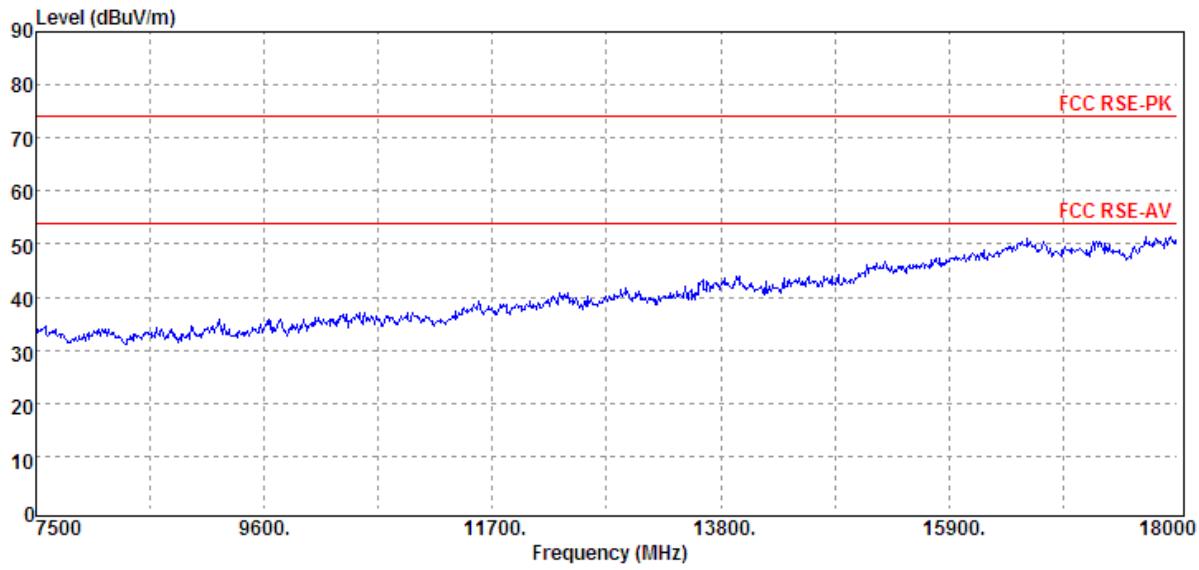
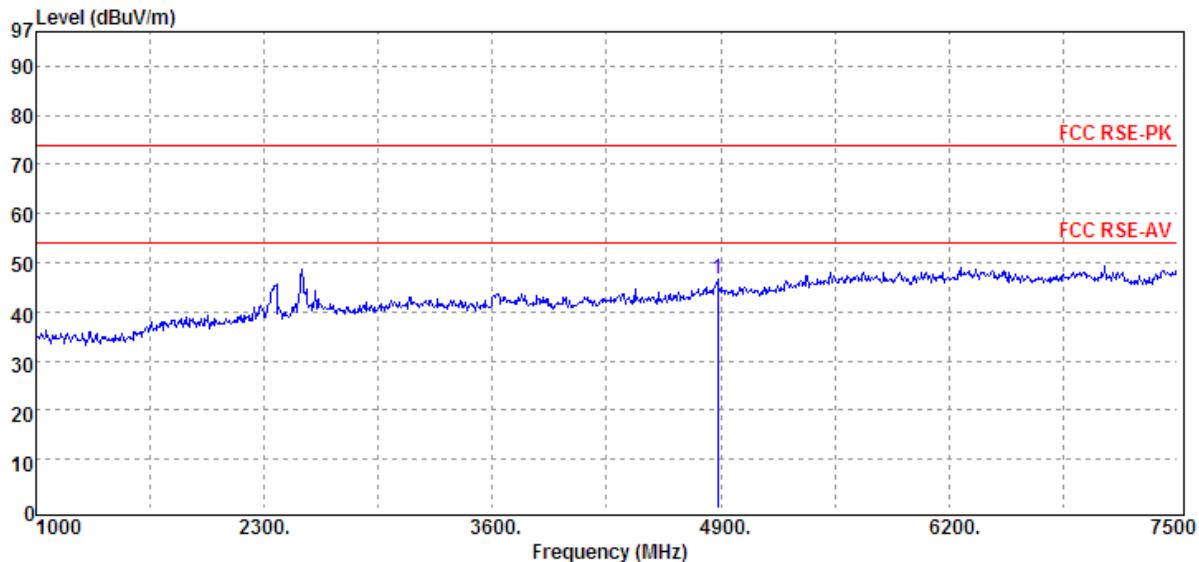


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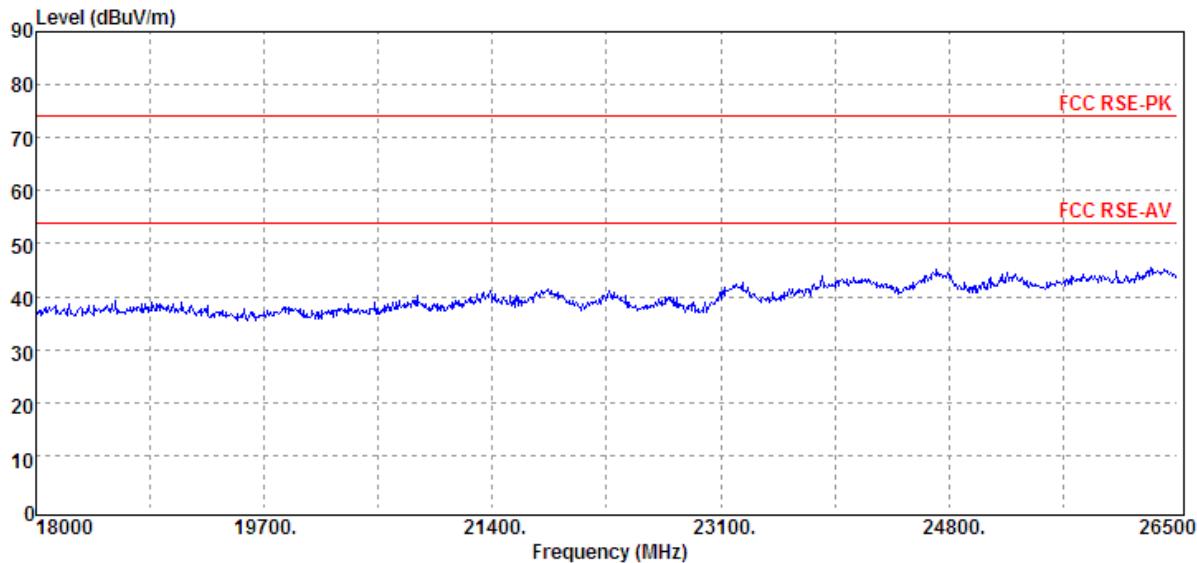
Operation Band :802.11g  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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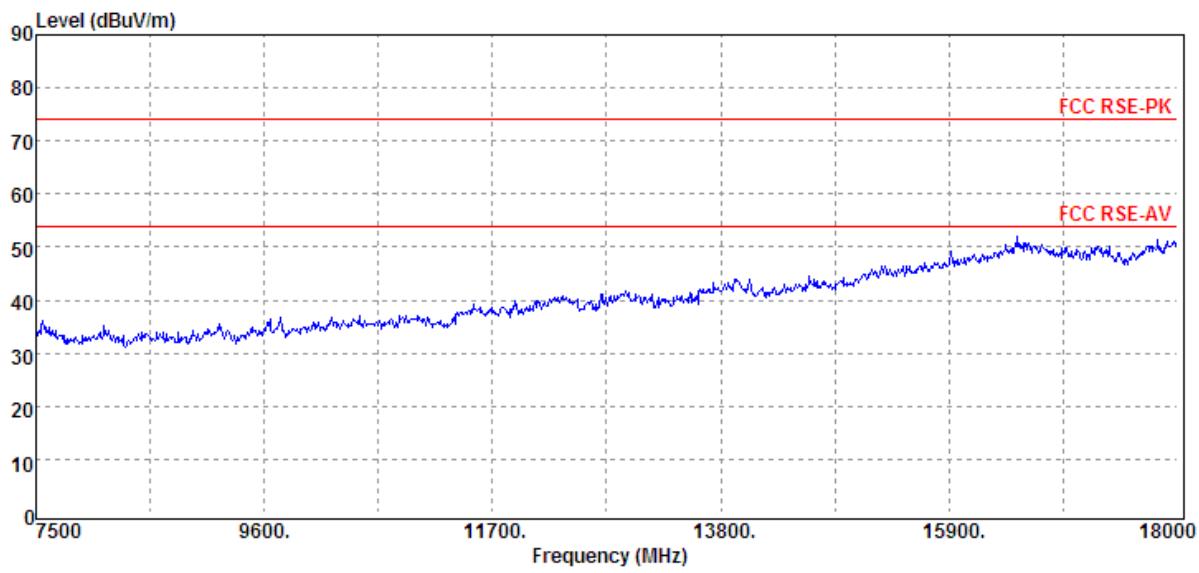
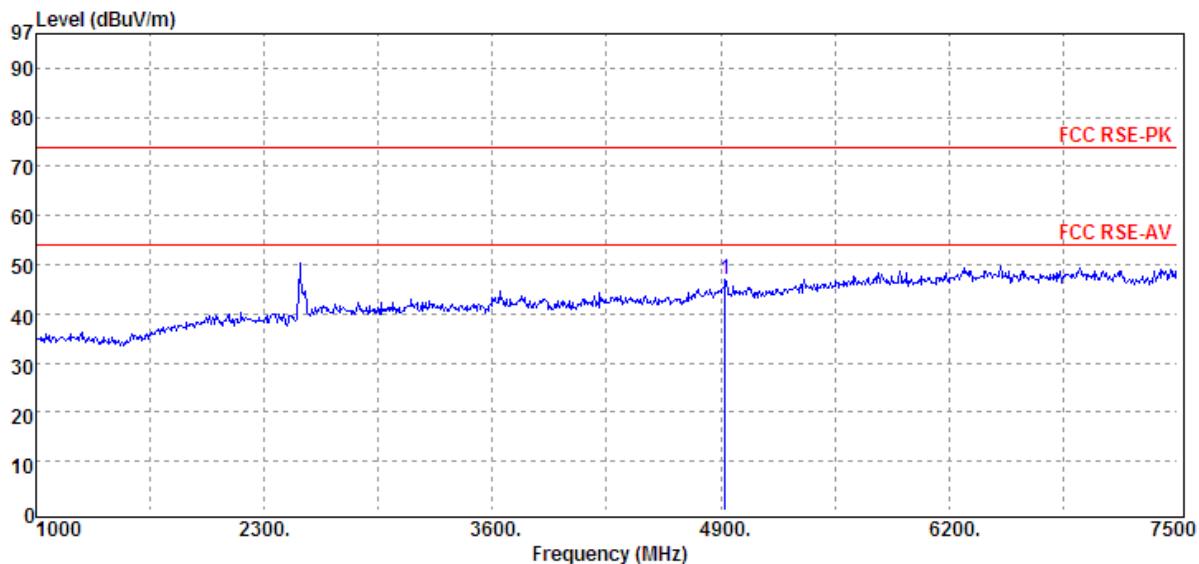


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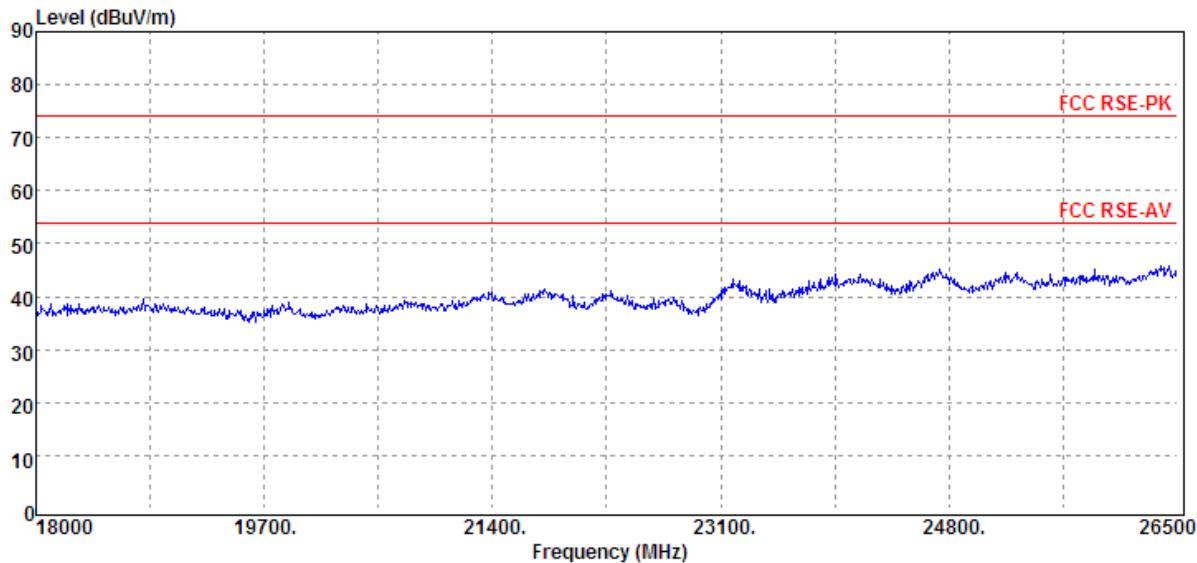
Operation Band :802.11g  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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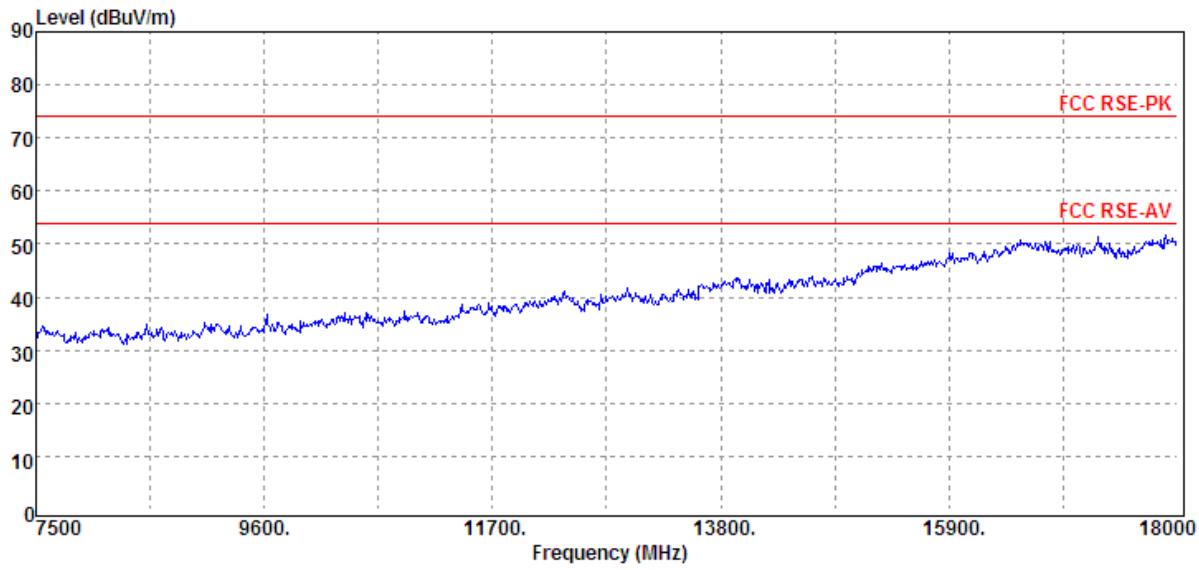
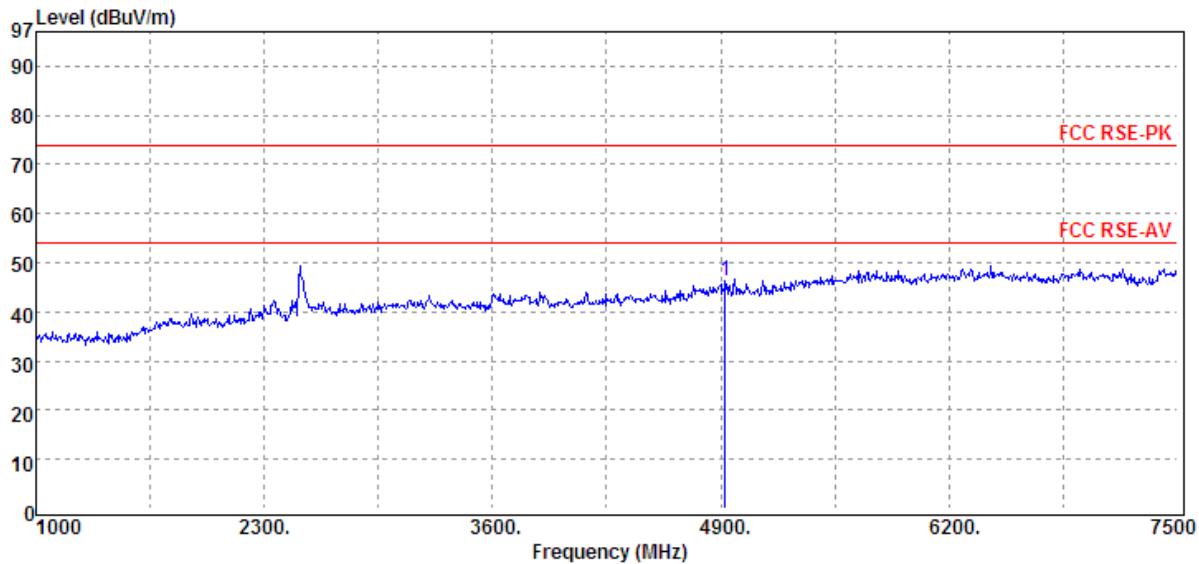


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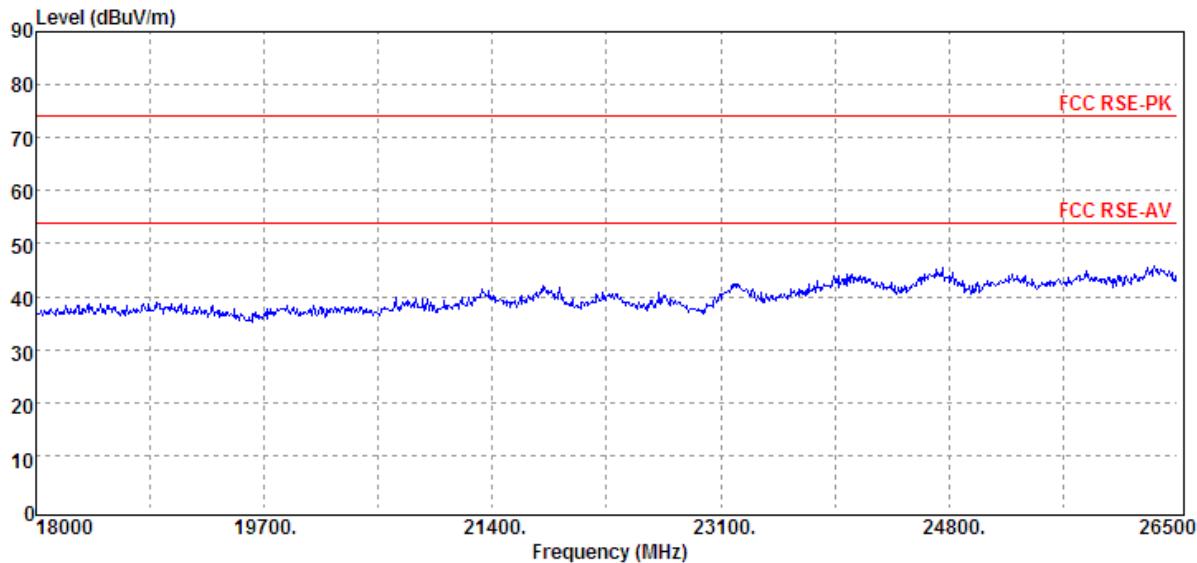
Operation Band :802.11g  
Fundamental Frequency :2462 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-05-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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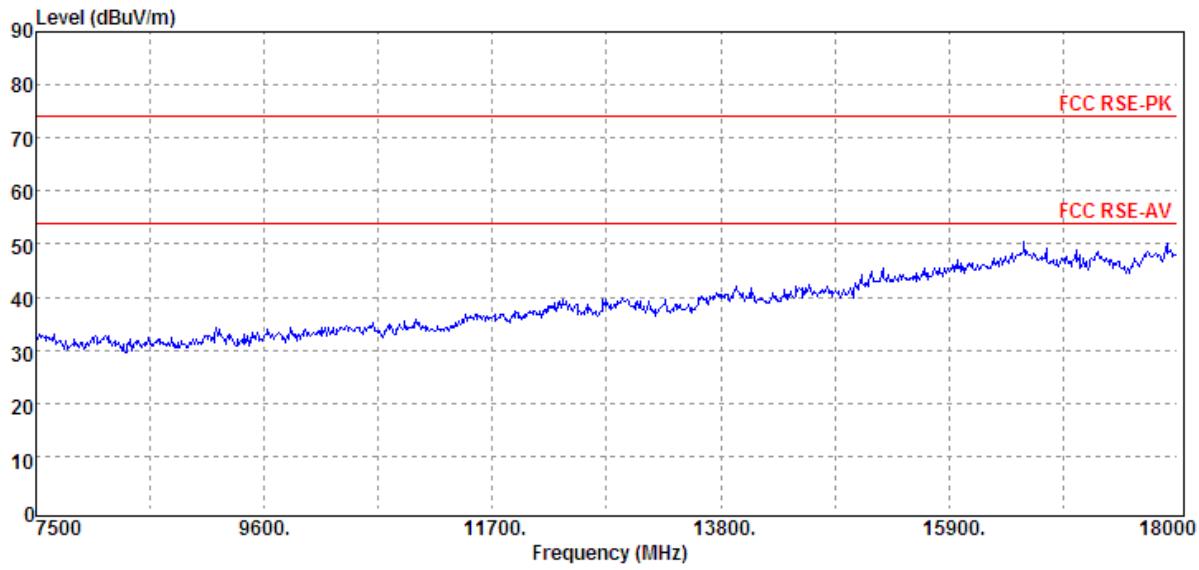
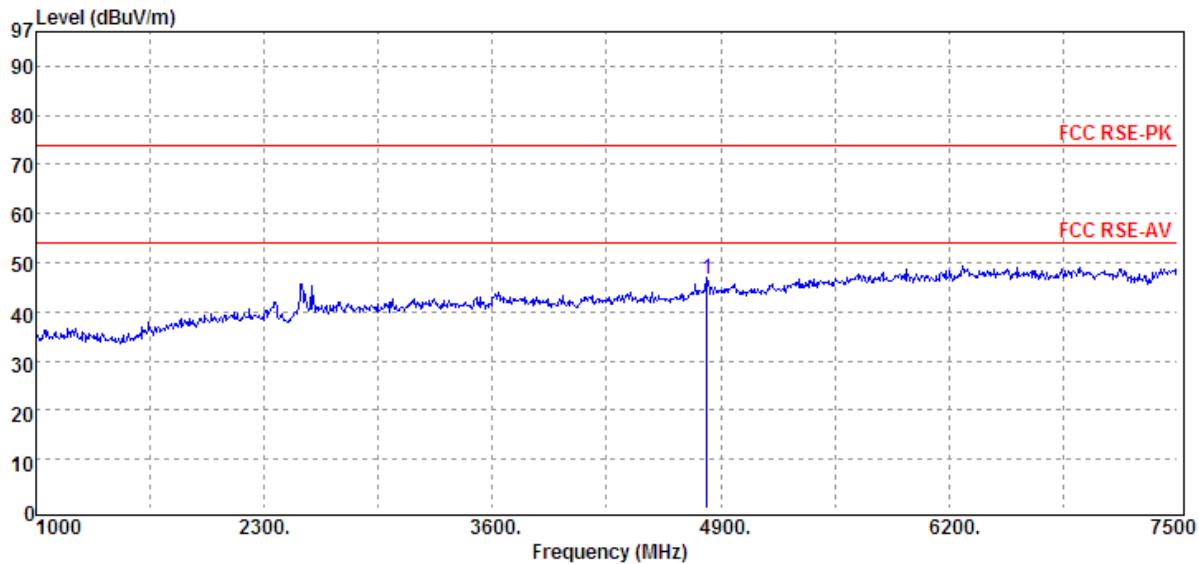


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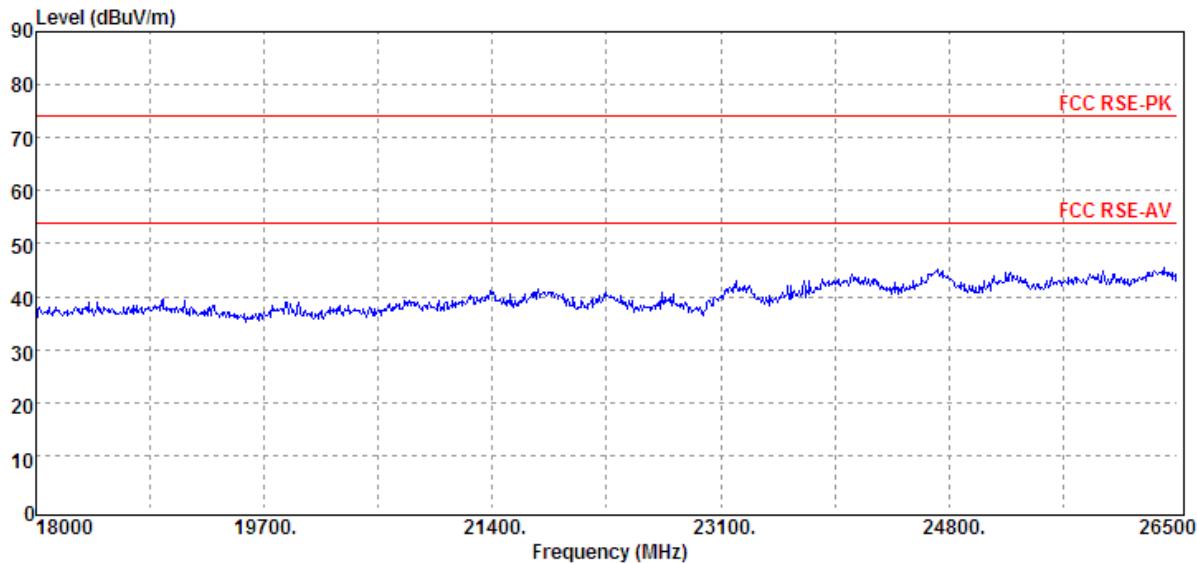
Operation Band :802.11n20M  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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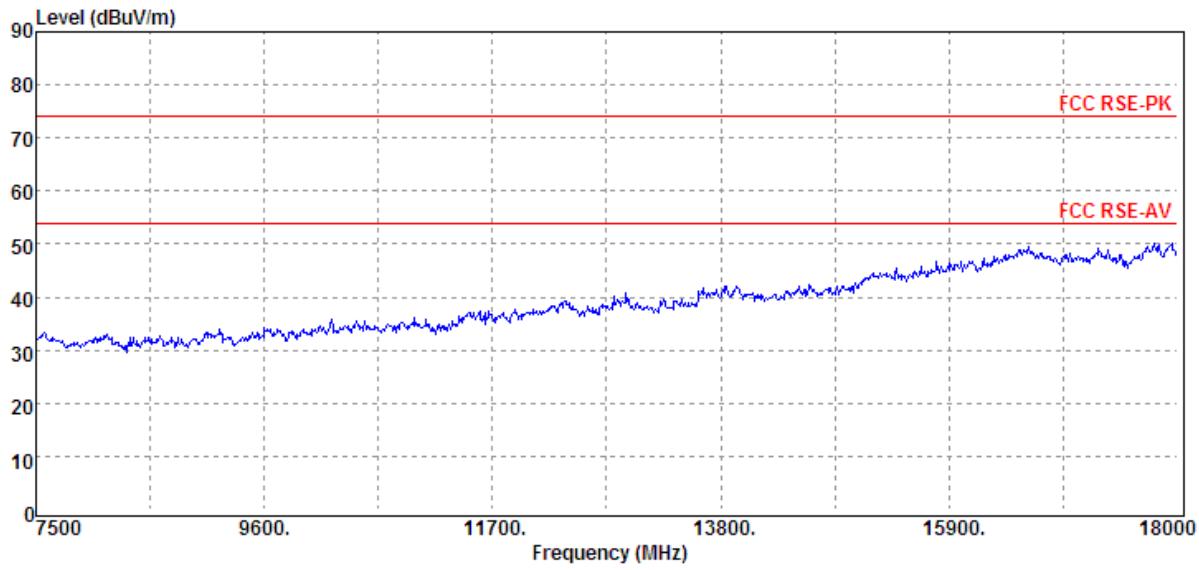
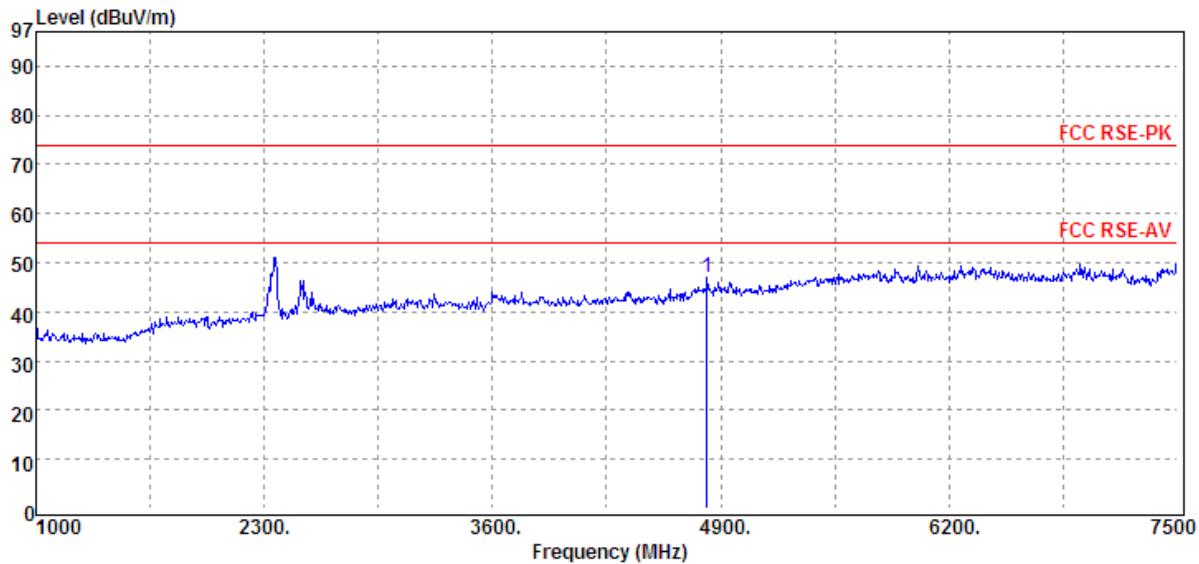


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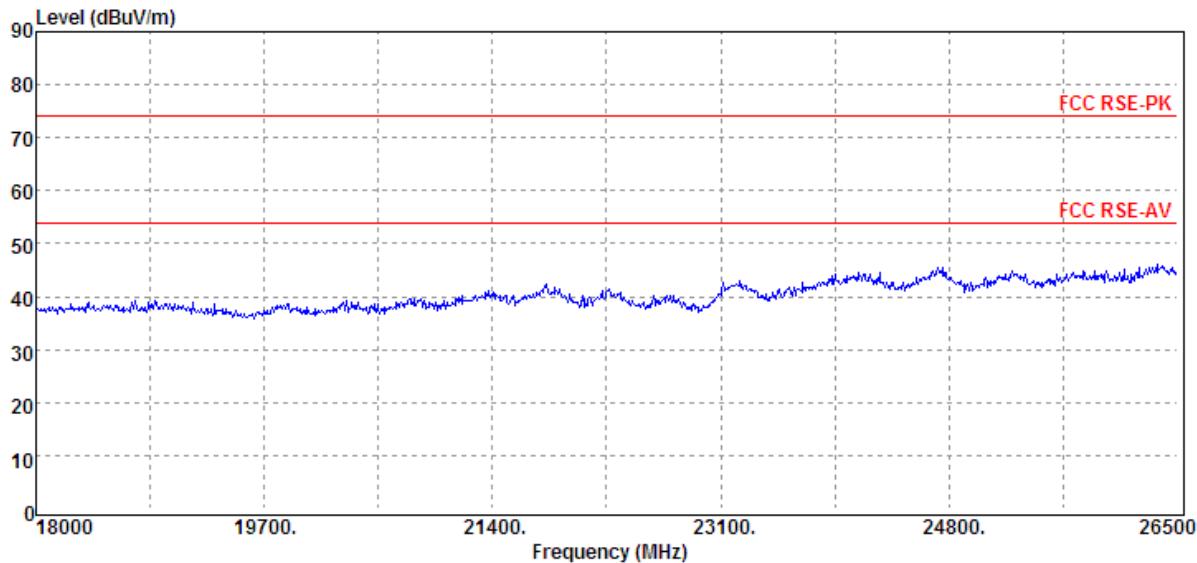
Operation Band :802.11n20M  
Fundamental Frequency :2412 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.5 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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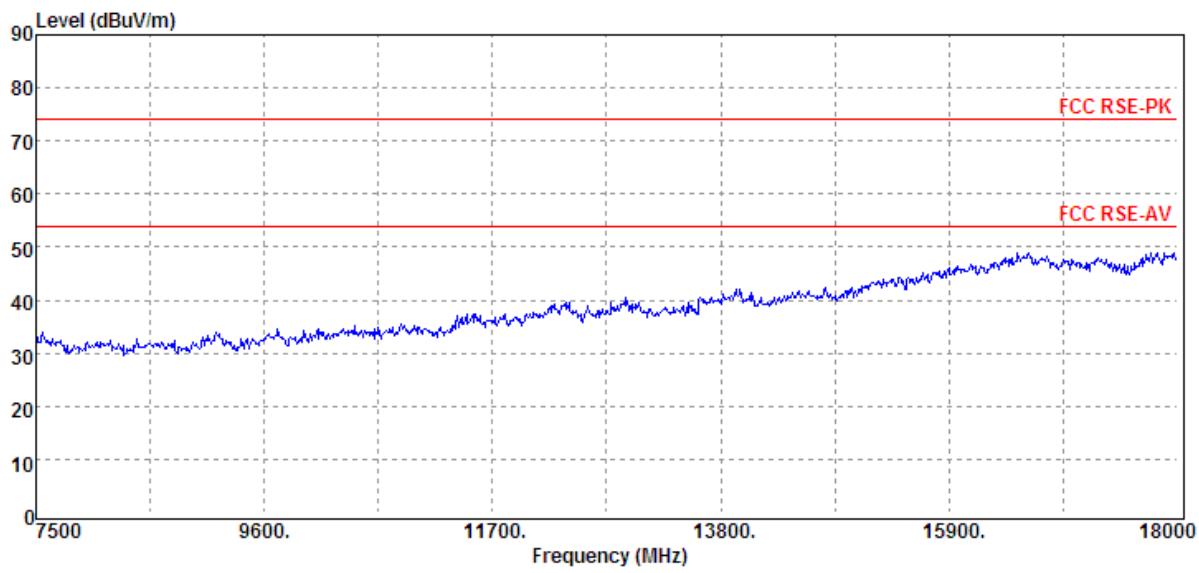
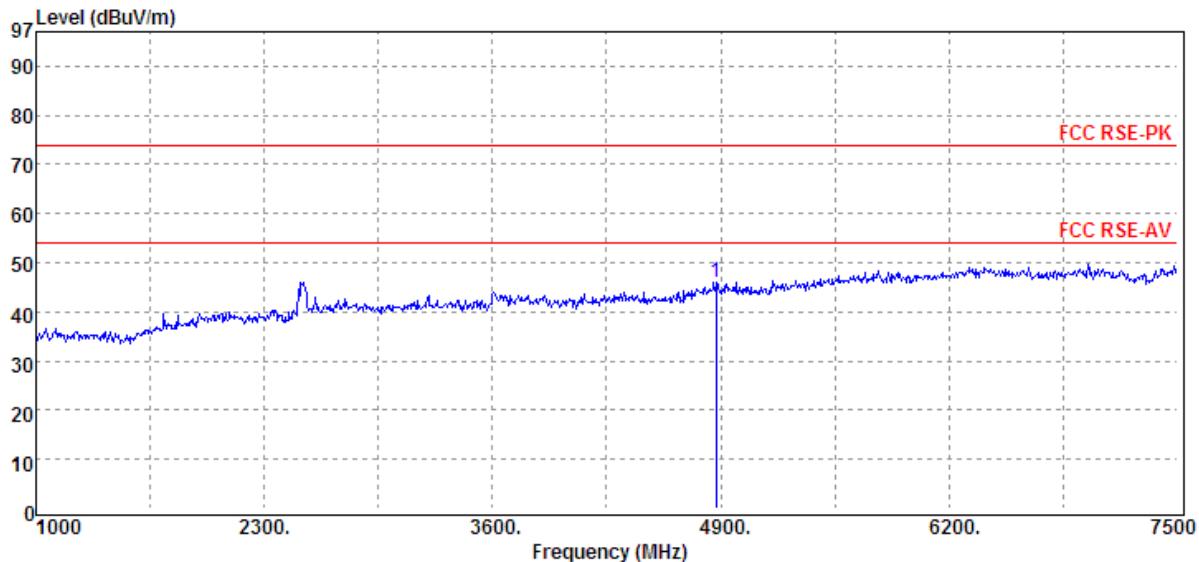


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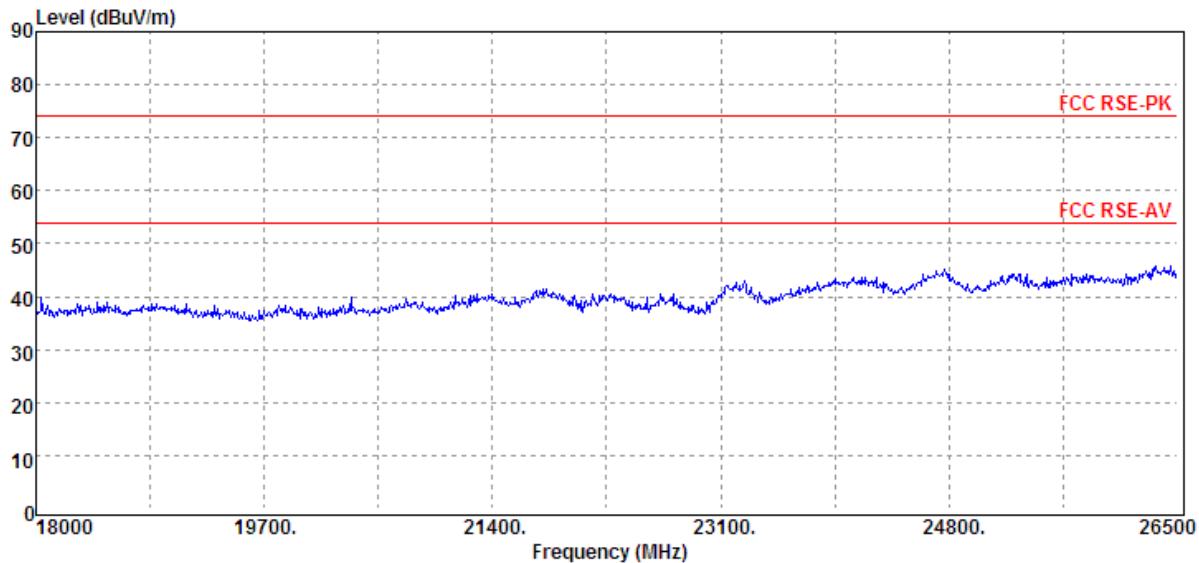
Operation Band :802.11n20M  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :VERTICAL



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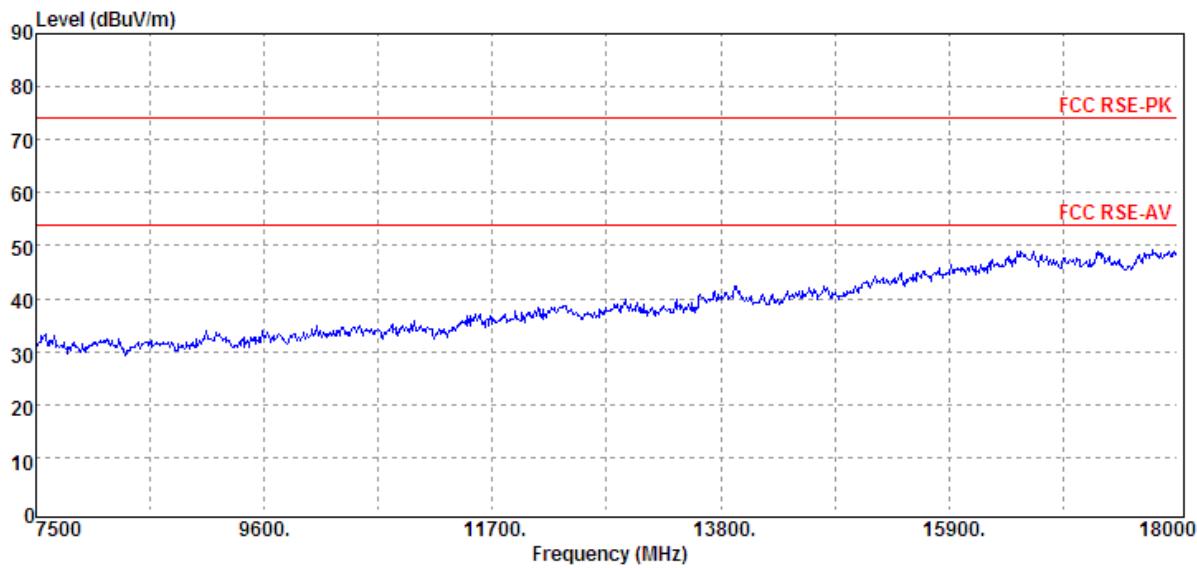
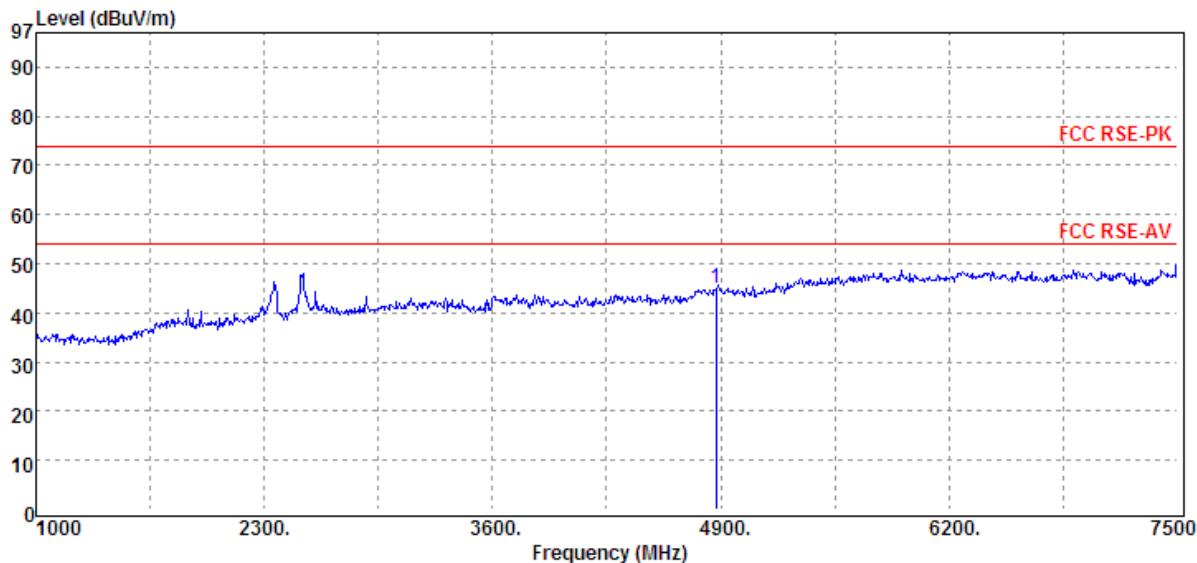


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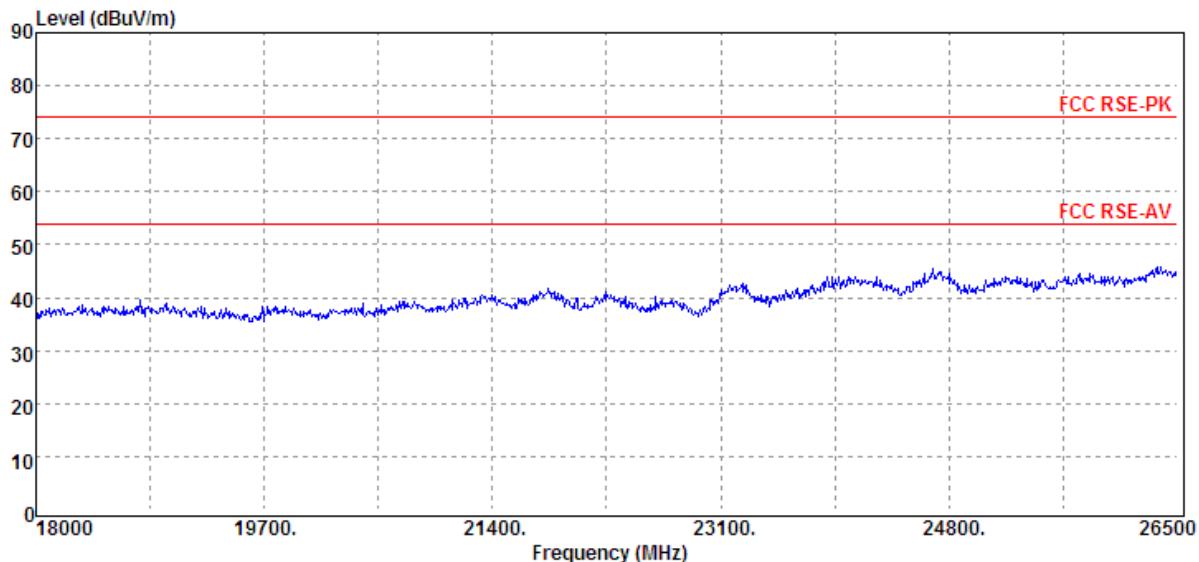
Operation Band :802.11n20M  
Fundamental Frequency :2437 MHz  
Operation Mode :TX  
EUT Pol. :E2 Plan

Test Date :2012-06-07  
Temp./Humi. :23.6 deg\_C / 67 RH  
Engineer :Jay  
Measurement Antenna Pol. :HORIZONTAL



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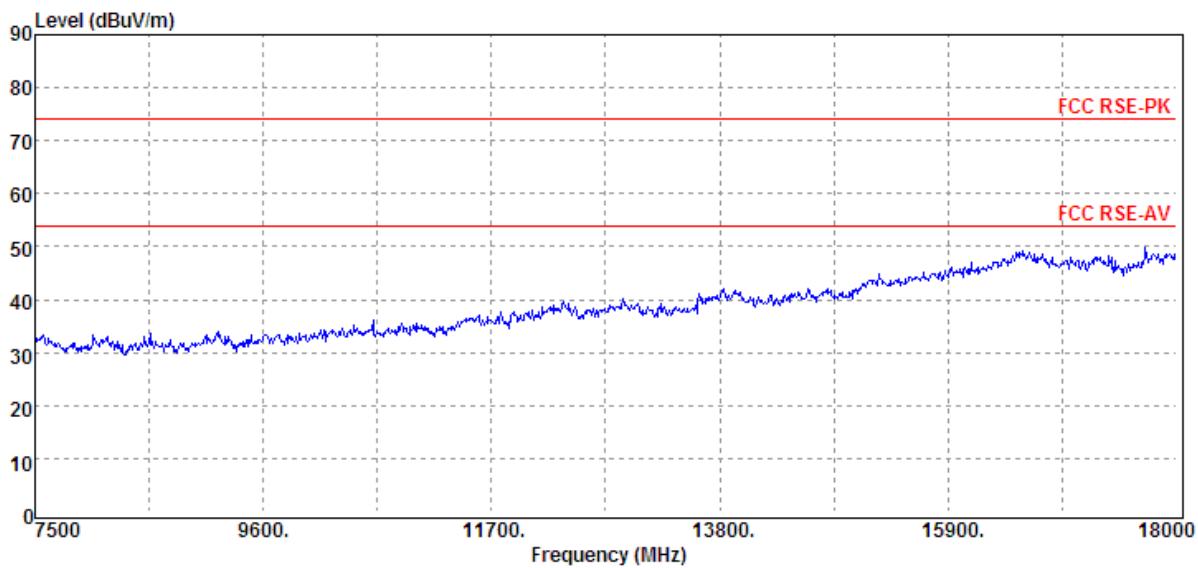
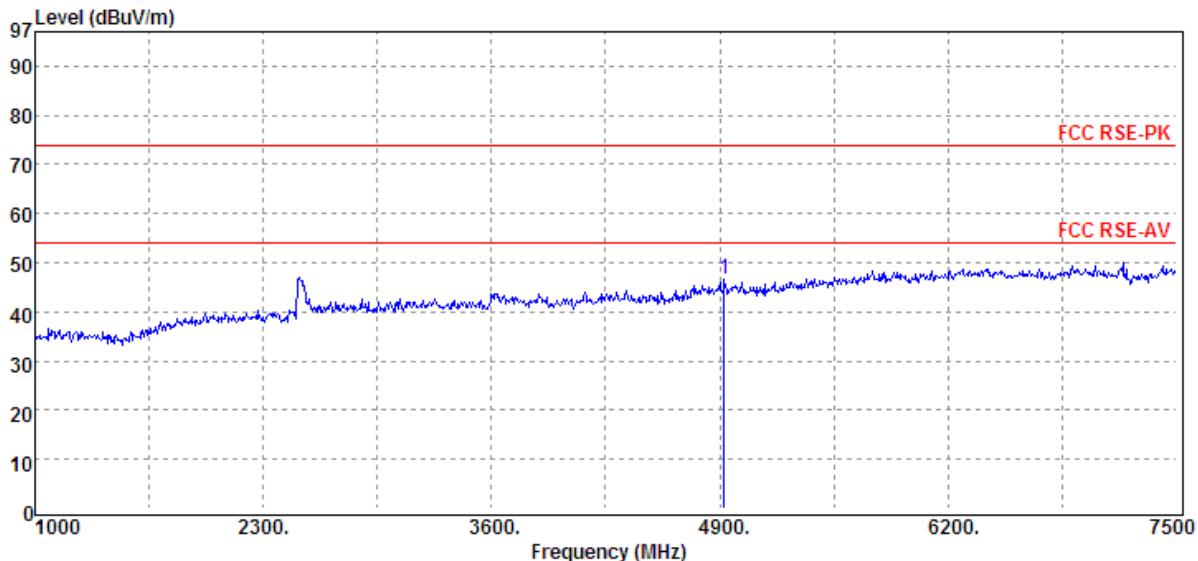
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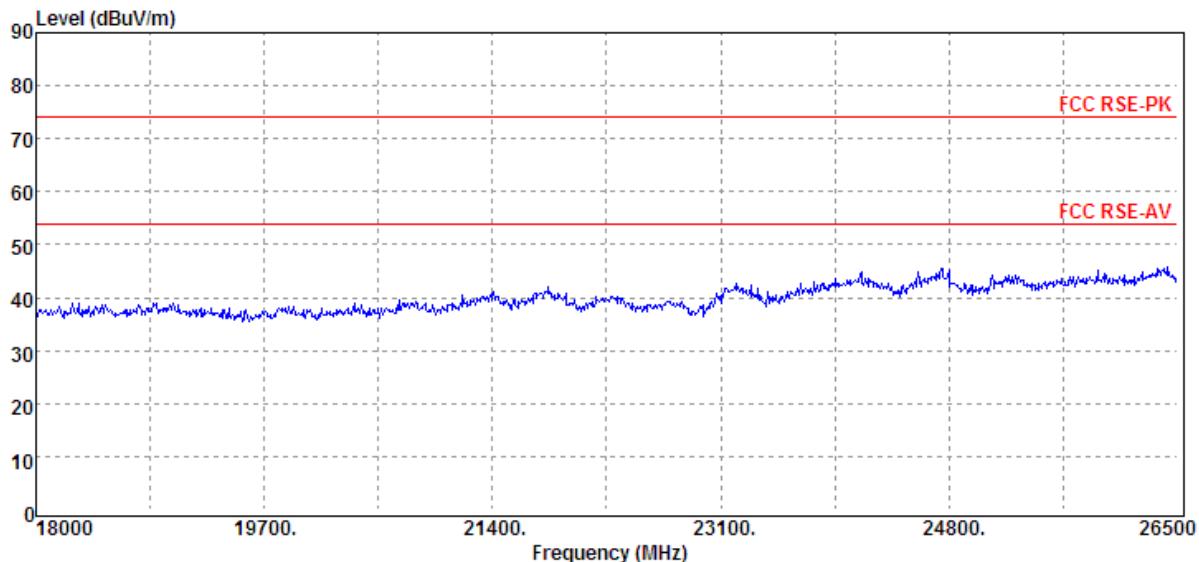
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Operation Band	:802.11n20M	Test Date	:2012-06-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23.6 deg_C / 67 RH
Operation Mode	:TX	Engineer	:Jay
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:VERTICAL



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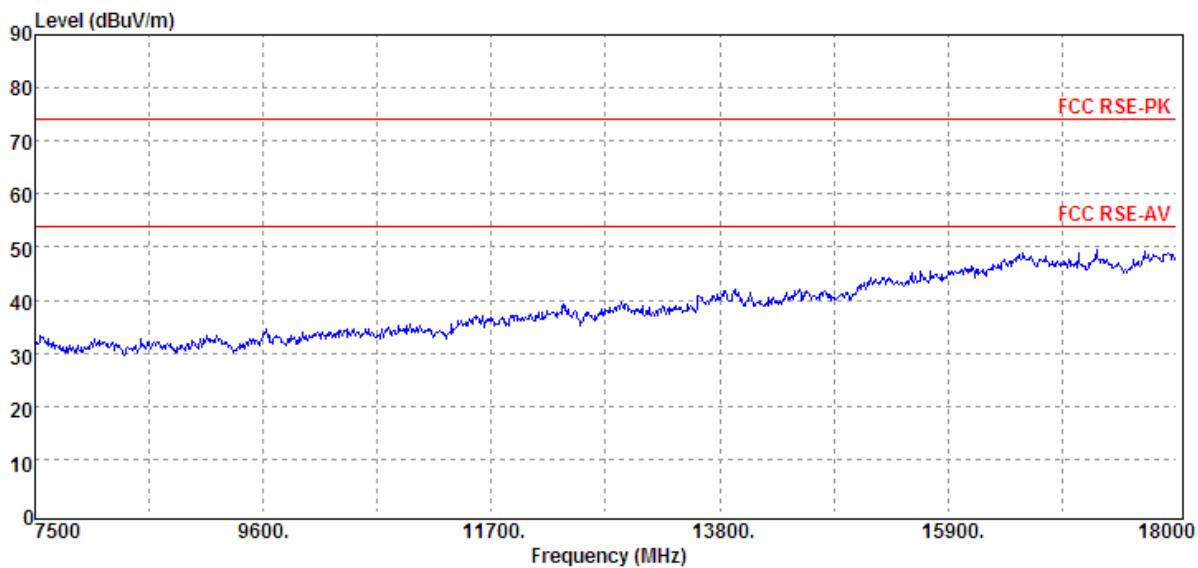
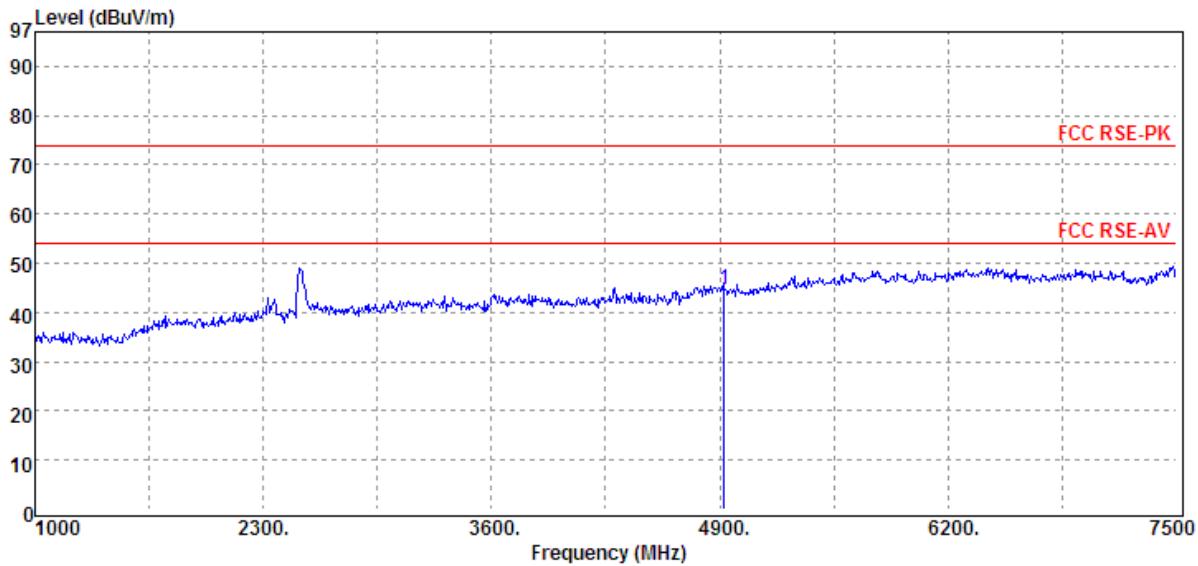
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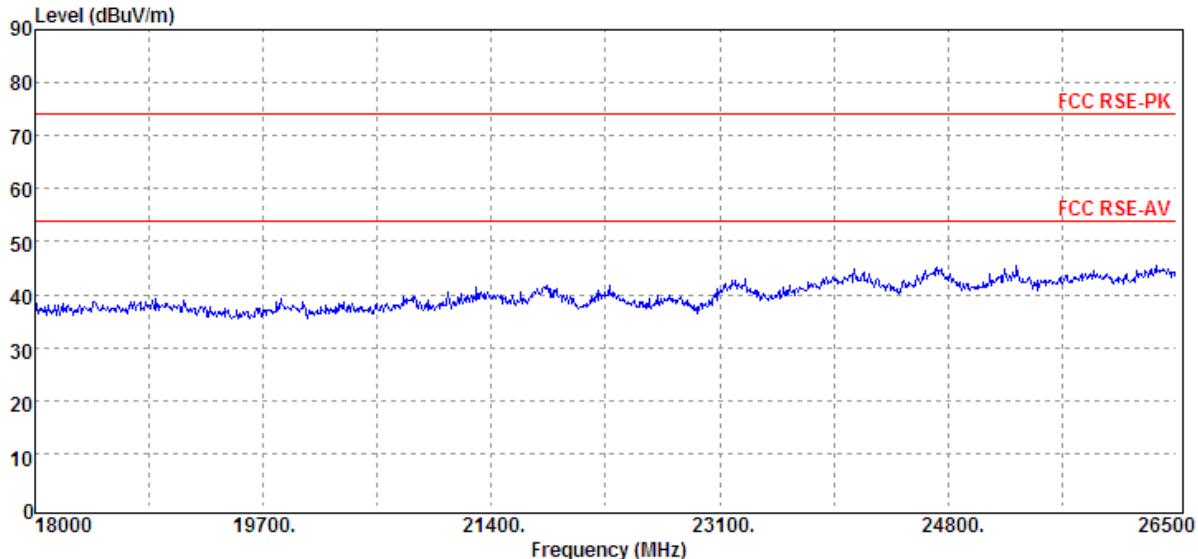
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Operation Band	:802.11n20M	Test Date	:2012-06-07
Fundamental Frequency	:2462 MHz	Temp./Humi.	:23.6 deg_C / 67 RH
Operation Mode	:TX	Engineer	:Jay
EUT Pol.	:E2 Plan	Measurement Antenna Pol.	:HORIZONTAL



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