

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT**INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 15 SUBPART C REQUIREMENT**

OF

Product Name: WLAN USB Module

Brand Name: CC&C

Model No.: WM-294

Model Difference: N/A

FCC ID: PANWM294

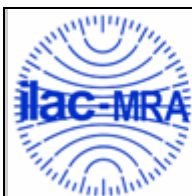
Report No.: ER/2012/80022

Issue Date: Sep. 06, 2012

FCC Rule Part: §15.247, Cat: DTS

Prepared for: CC&C Technologies, Inc.
8F, No. 150, Jian Yi Road, Zhonghe District,
New Taipei City, Taiwan 235, R.O.C.

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.134, Wu Kung Road, New Taipei Industrial
Park, Wuku District, New Taipei City, Taiwan
24803



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

www.tw.sgs.com

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VERIFICATION OF COMPLIANCE

Applicant: CC&C Technologies, Inc.
8F, No. 150, Jian Yi Road, Zhonghe District, New Taipei City, Taiwan
235, R.O.C.

Product Name: WLAN USB Module

Brand Name: CC&C

FCC ID: PANWM294

Model No.: WM-294

Model Difference: N/A

File Number: ER/2012/80022




Date of test: Aug. 21, 2012 ~ Sep. 06, 2012

Date of EUT Received: Aug. 21, 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) and 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.

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

Test By:		Date	Sep. 06, 2012
	_____ <i>Marcus Tseng / Engineer</i>		
Prepared By:		Date	Sep. 06, 2012
	_____ <i>Cherry Chen / Clerk</i>		
Approved By:		Date	Sep. 06, 2012
	_____ <i>Jim Chang / Supervisor</i>		

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Version

Version No.	Date	Description
00	Sep. 06, 2012	Initial creation of document

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	WLAN USB Module
Brand Name:	CC&C
Model No.:	WM-294
Model Difference:	N/A
Hardware Version:	289G1M4916-C0
Software Version:	00-029400-01[F/W,WM-294]
Power Supply:	5Vdc from USB port

WLAN: 802.11 b/g/n:

Frequency Range & Channel Number	802.11 b/g: 2412-2462MHz, 11 channels 802.11 n_20MHz: 2412-2462MHz, 11 channels 802.11 n_40MHz: 2422-2452MHz, 7 channels
Rated Power	802.11 b: 16.94dBm (peak) 802.11 g: 13.97dBm (peak) 802.11 n_20MHz: 13.64dBm (peak) 802.11 n_40MHz: 14.31dBm (peak)
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: 6.5-65Mbps 802.11 n_40MHz: 13.5-135Mbps
Antenna Designation	Dipole Antenna, 2.0dBi Model No.: WSS002;WSS015

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

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

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PANWM294** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). 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.

1.4 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. 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.

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 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 a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. 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 a placed on as 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.

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2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

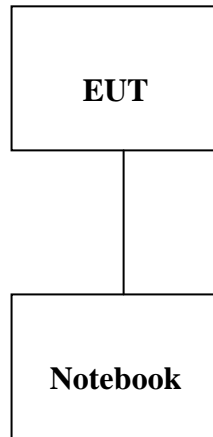


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Notebook	IBM	T60	L3DK794	N/A	N/A
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)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3),(4)(c)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Bandwidth	Compliant
§15.247(d)	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d)	Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

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 data rate are chosen for full testing.

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

802.11 n_20MHz mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 6.5Mbps data rate are chosen for full testing.

802.11 n_40MHz mode: Channel low (2422MHz)、mid (2437MHz) and high (2452MHz) with 13.5Mbps 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.

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5 MEASUREMENT UNCERTAINTY FOR FIELD STRENGTH OF SPURIOUS RADIATION

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

Measurement uncertainty (Polarization : Horizontal)	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, 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-50/250-25-2-01	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.

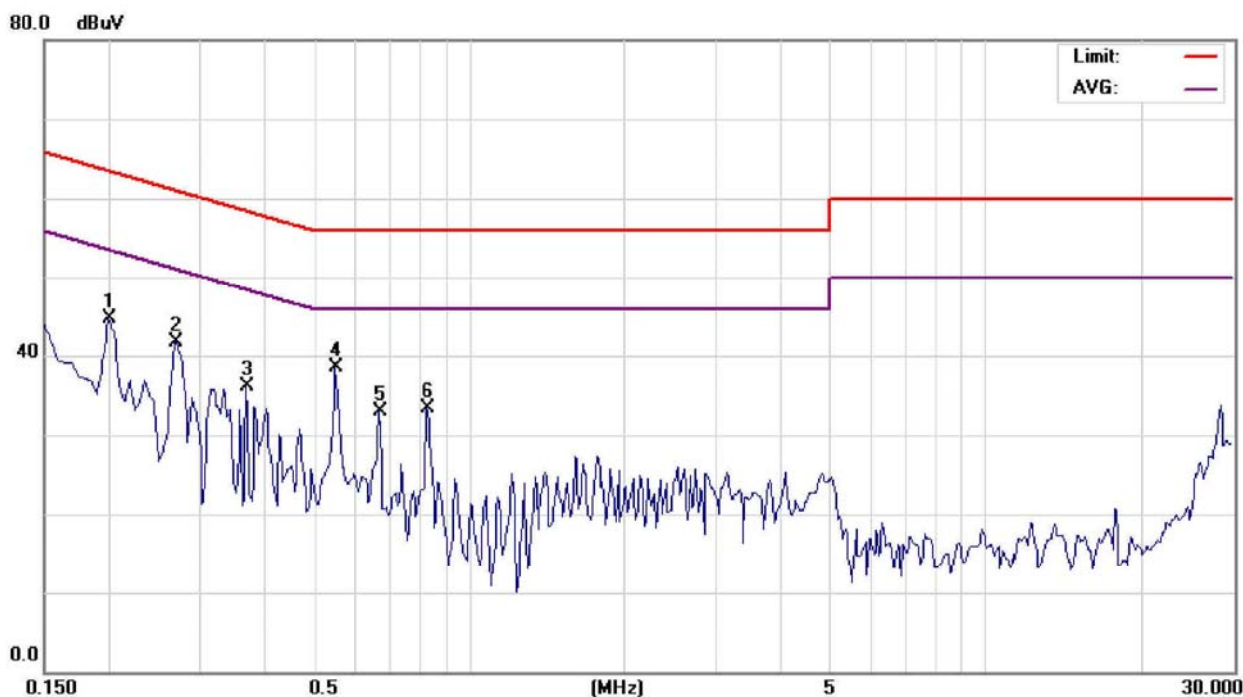
Note: Refer to next page for measurement data and plots.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode			Test Date:	Aug. 30, 2012
Temperature:	24 °C	Humidity:	60 %	Test By:	Marcus

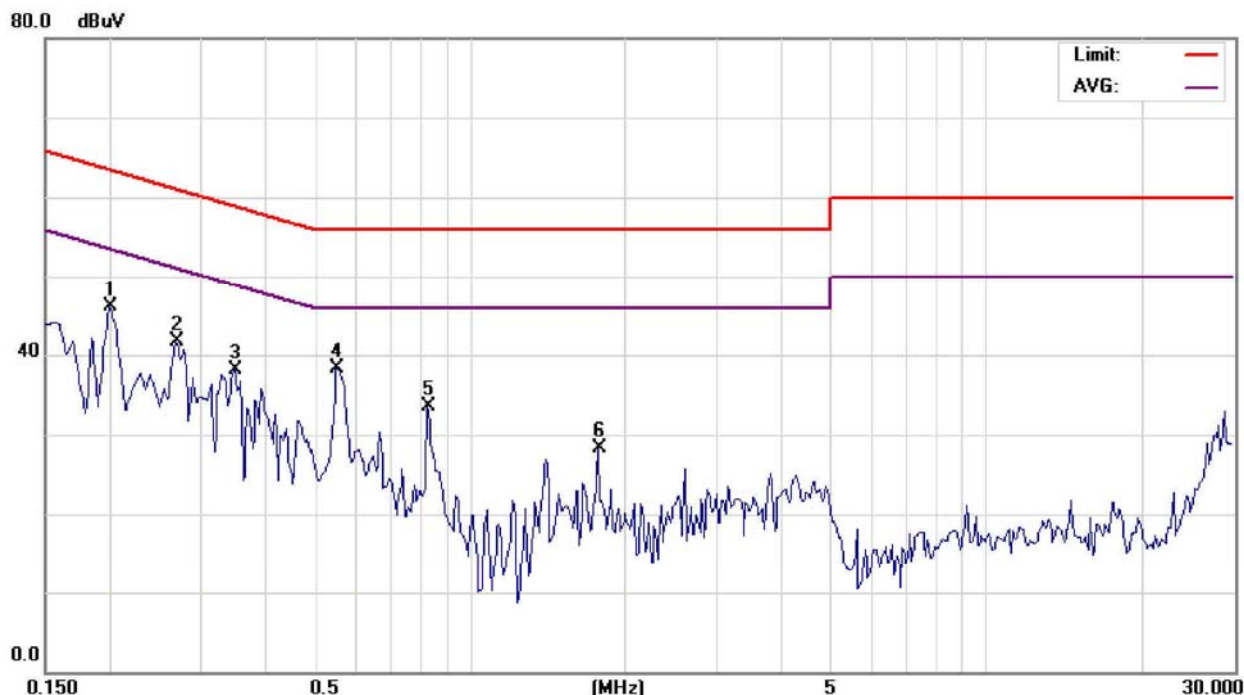


Site	ConductionRoom	Phase:	L1	Temperature:	24 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	WLAN USB Module	Distance:			
M/N:	WM-294				
Mode:	Operationmode				
Note:					

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2000	44.55	0.12	44.67	63.61	-18.94	peak	
2		0.2700	41.56	0.12	41.68	61.12	-19.44	peak	
3		0.3700	35.98	0.12	36.10	58.50	-22.40	peak	
4	*	0.5500	38.37	0.12	38.49	56.00	-17.51	peak	
5		0.6700	32.81	0.12	32.93	56.00	-23.07	peak	
6		0.8300	33.10	0.12	33.22	56.00	-22.78	peak	

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Site	ConductionRoom	Phase:	N	Temperature:	24 °C
Limit:	FCC Class B Conduction(QP)	Power:	AC 120V/60Hz	Humidity:	60%
EUT:	WLAN USB Module	Distance:			
M/N:	WM-294				
Mode:	Operationmode				
Note:					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.2000	45.98	0.13	46.11	63.61	-17.50	peak	
2		0.2700	41.48	0.13	41.61	61.12	-19.51	peak	
3		0.3500	38.05	0.12	38.17	58.96	-20.79	peak	
4		0.5500	38.17	0.12	38.29	56.00	-17.71	peak	
5		0.8300	33.28	0.13	33.41	56.00	-22.59	peak	
6		1.7800	28.06	0.15	28.21	56.00	-27.79	peak	

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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.

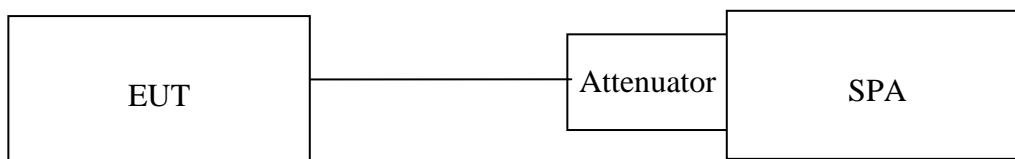
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7.2 Measurement Equipment Used:

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

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.
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	16.66	16.49	16.31	16.20	1 Watt = 30 dBm	
6	2437	16.81	16.65	16.48	16.32	1 Watt = 30 dBm	
11	2462	16.94	16.77	16.6	16.46	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	14.11	14.02	13.94	13.89	1 Watt = 30 dBm	
6	2437	14.40	14.30	14.20	14.11	1 Watt = 30 dBm	
11	2462	14.21	14.10	13.97	13.78	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	13.73	13.52	13.35	13.20	13.09	12.94	12.75	12.54	1 Watt = 30 dBm
6	2437	13.97	13.79	13.59	13.40	13.26	13.15	12.98	12.80	1 Watt = 30 dBm
11	2462	13.95	13.85	13.63	13.47	13.30	13.20	12.98	12.88	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	10.19	10.01	9.80	9.67	9.51	9.33	9.17	9.02	1 Watt = 30 dBm
6	2437	10.42	10.30	10.14	10.01	9.89	9.77	9.57	9.41	1 Watt = 30 dBm
11	2462	10.22	10.11	10.01	9.91	9.77	9.67	9.45	9.30	1 Watt = 30 dBm

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802.11n_20MHz

Cable loss = 0		Peak Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	13.64	13.49	13.38	13.24	13.11	13.00	12.87	12.70	1 Watt = 30 dBm
6	2437	13.55	13.43	13.30	13.18	13.01	12.92	12.76	12.64	1 Watt = 30 dBm
11	2462	13.62	13.50	13.38	13.25	13.12	13.01	12.88	12.72	1 Watt = 30 dBm

Cable loss = 0		Average Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	9.82	9.73	9.54	9.35	9.18	9.06	8.98	8.78	1 Watt = 30 dBm
6	2437	9.88	9.76	9.55	9.36	9.20	9.11	9.02	8.96	1 Watt = 30 dBm
11	2462	9.88	9.74	9.53	9.34	9.20	9.07	9.04	8.97	1 Watt = 30 dBm

802.11n_40MHz

Cable loss = 0		Peak Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	14.31	13.78	13.65	13.44	13.27	13.08	12.98	12.77	1 Watt = 30 dBm
6	2437	13.93	13.80	13.66	13.45	13.28	13.12	13.00	12.86	1 Watt = 30 dBm
9	2452	13.94	13.80	13.67	13.48	13.27	13.11	12.97	12.80	1 Watt = 30 dBm

Cable loss = 0		Average Power Output (dBm)								Required Limit
CH	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	10.46	10.19	10	9.86	9.74	9.69	9.57	9.37	1 Watt = 30 dBm
6	2437	10.33	10.18	10.02	9.84	9.71	9.64	9.54	9.41	1 Watt = 30 dBm
9	2452	10.20	10.07	9.92	9.8	9.65	9.42	9.21	9.1	1 Watt = 30 dBm

*Note: Offset 10.5dB

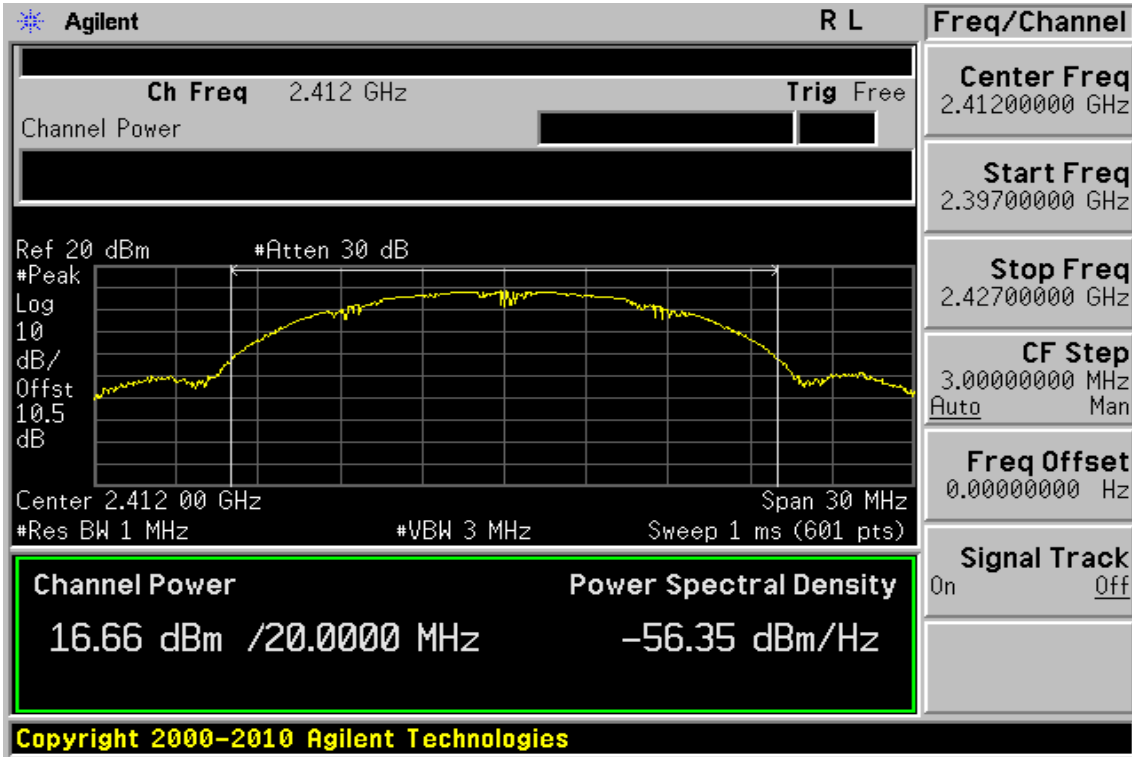
* Read Power = Output Power + Cable Loss

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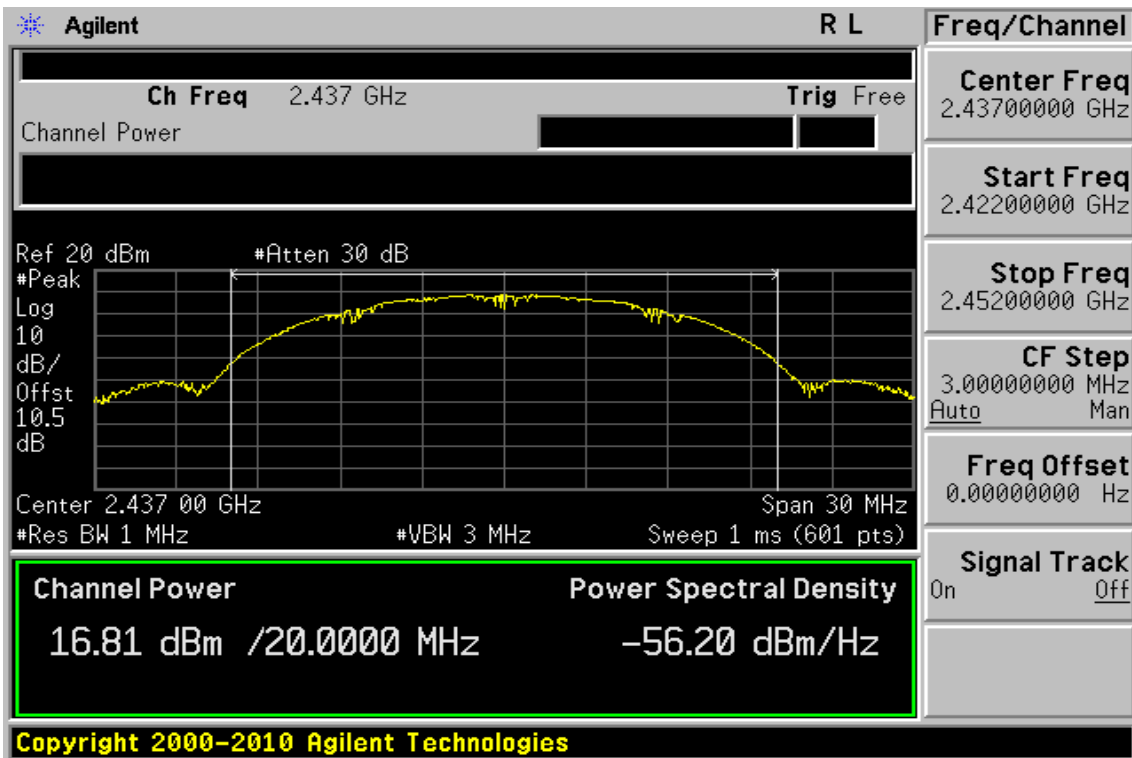
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802.11b, 1Mbps

Peak Power Output Plot (CH Low)



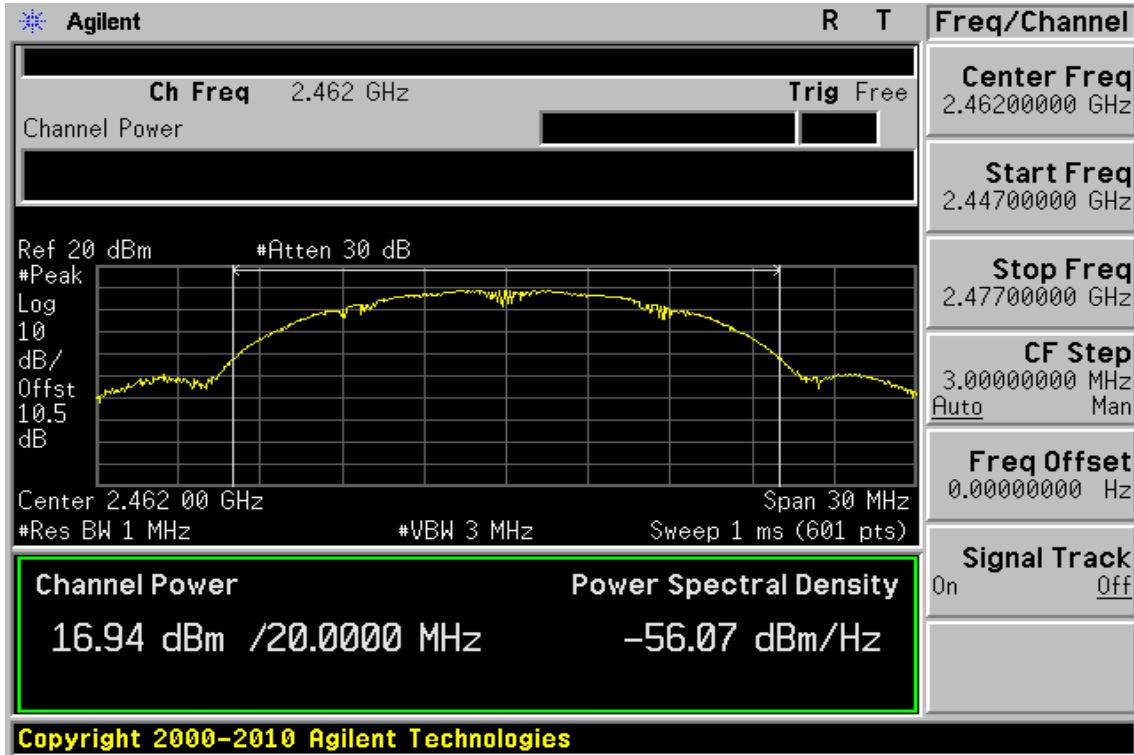
Peak Power Output Plot (CH Mid)



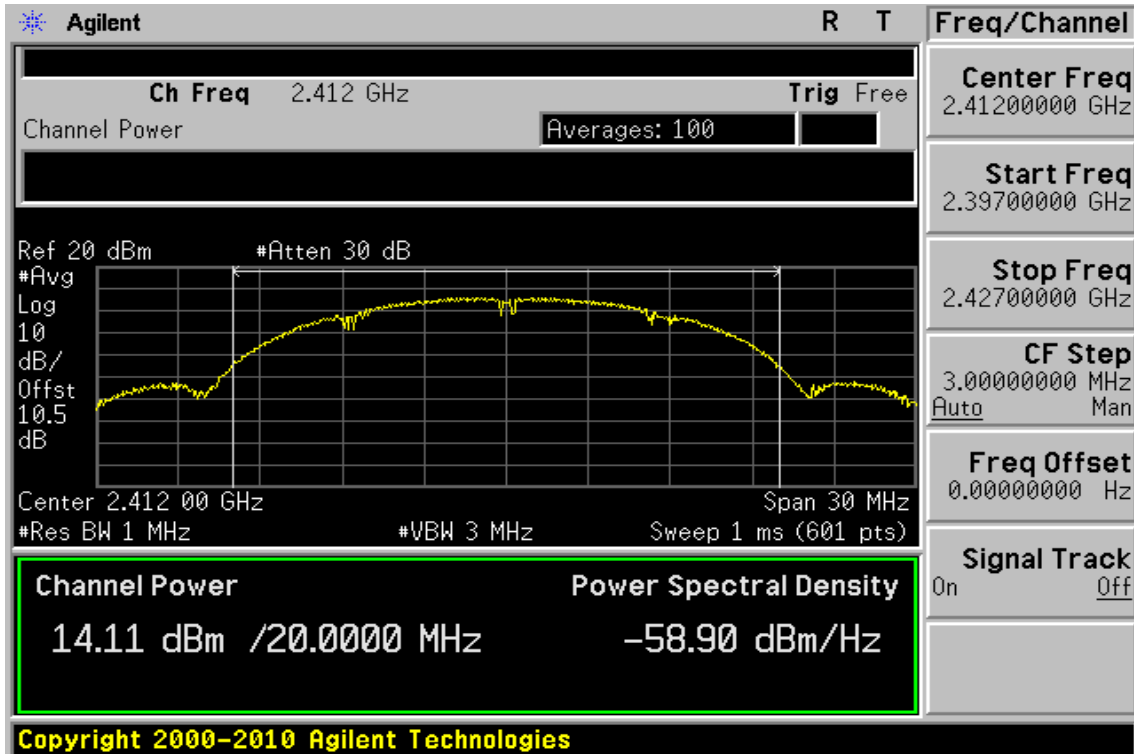
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Peak Power Output Plot (CH High)



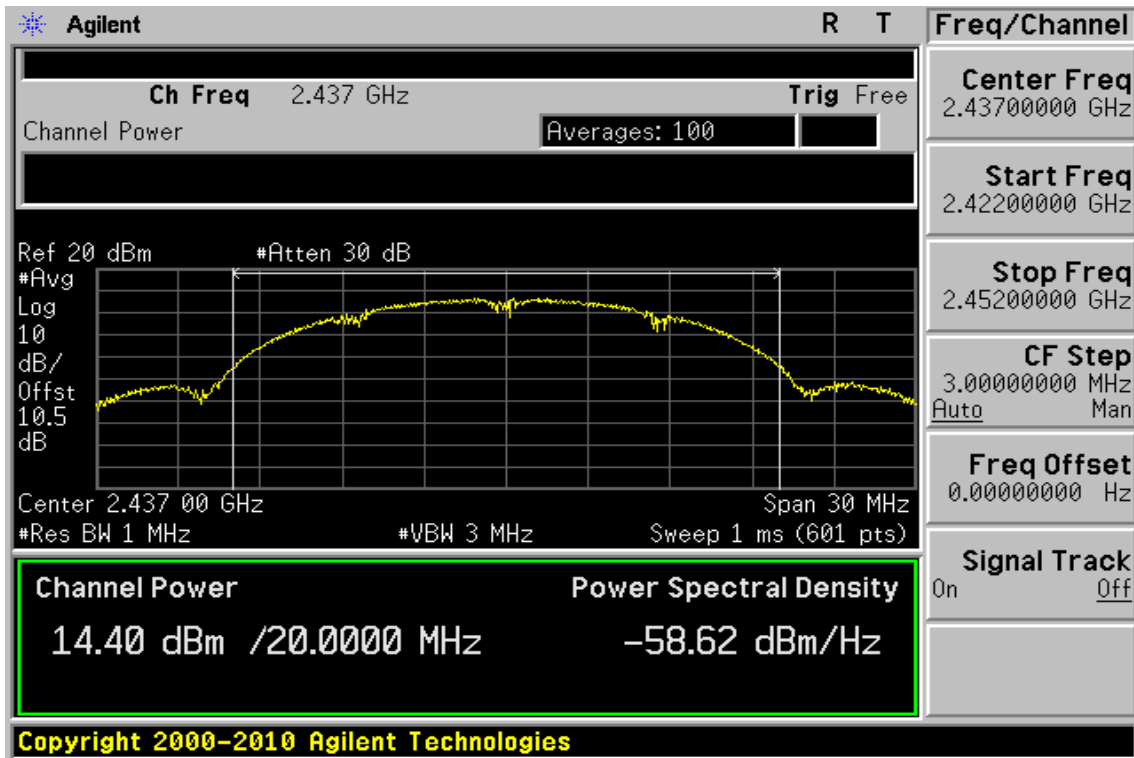
Avg. Power Output Plot (CH Low)



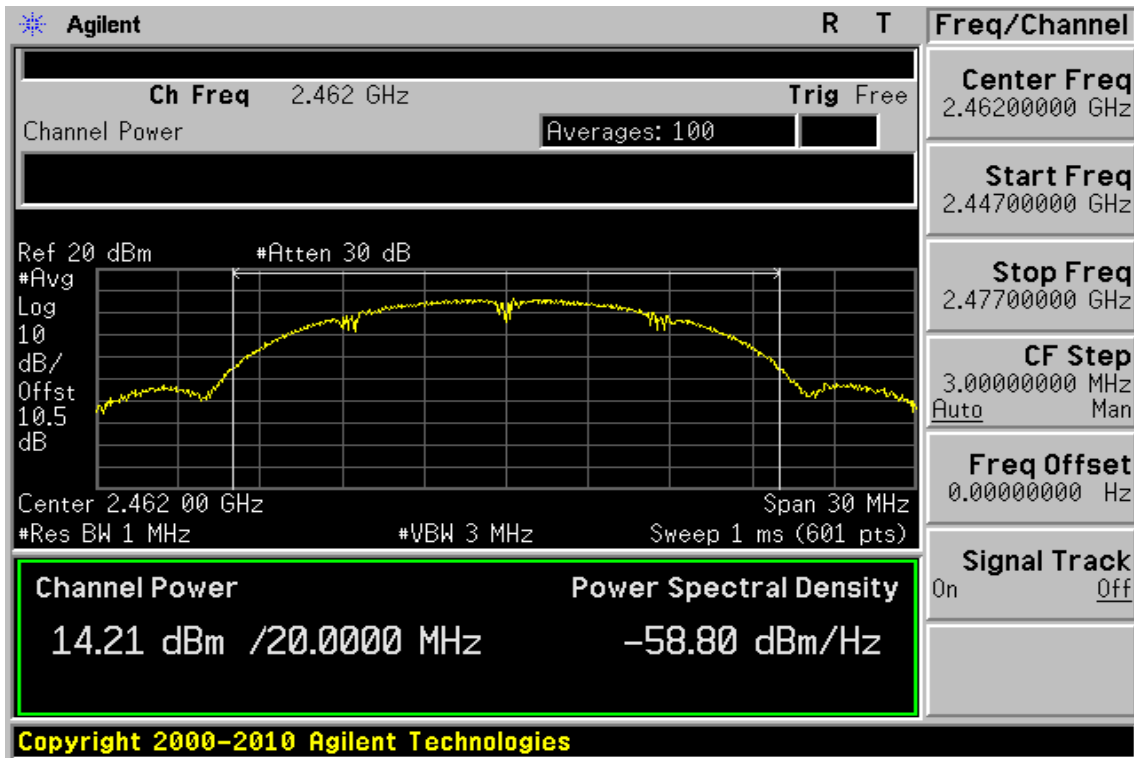
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Avg. Power Output Plot (CH Mid)



Avg. Power Output Plot (CH High)

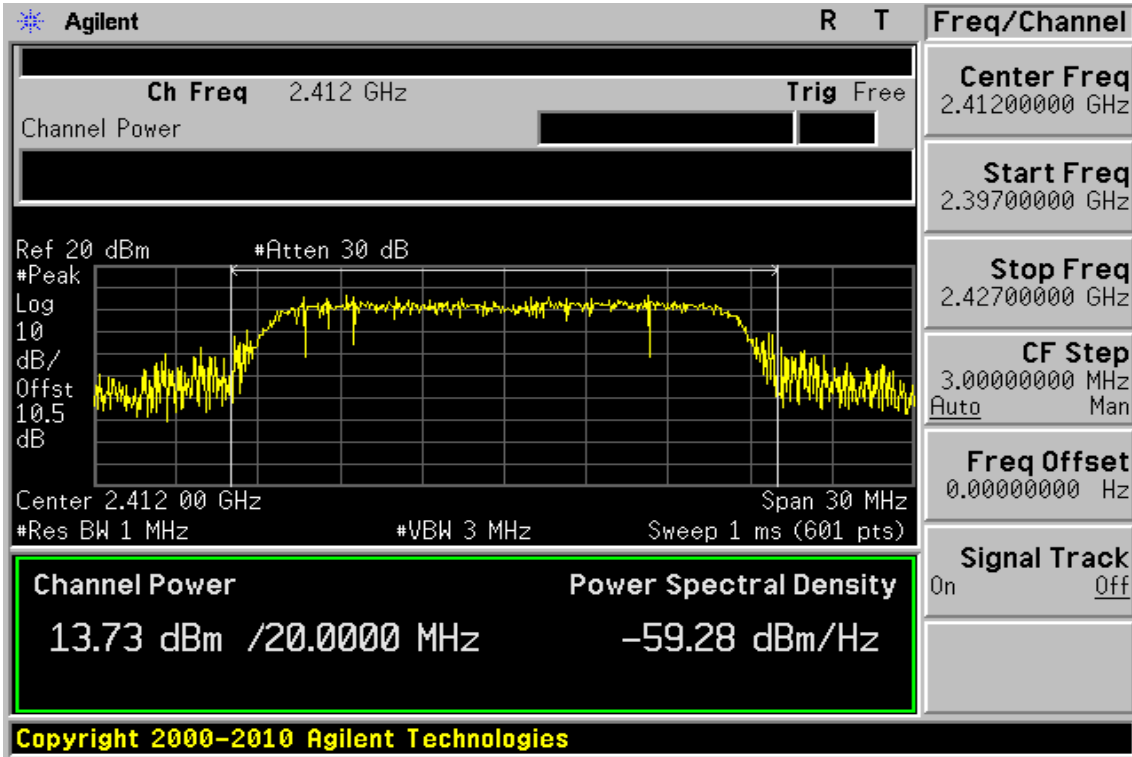


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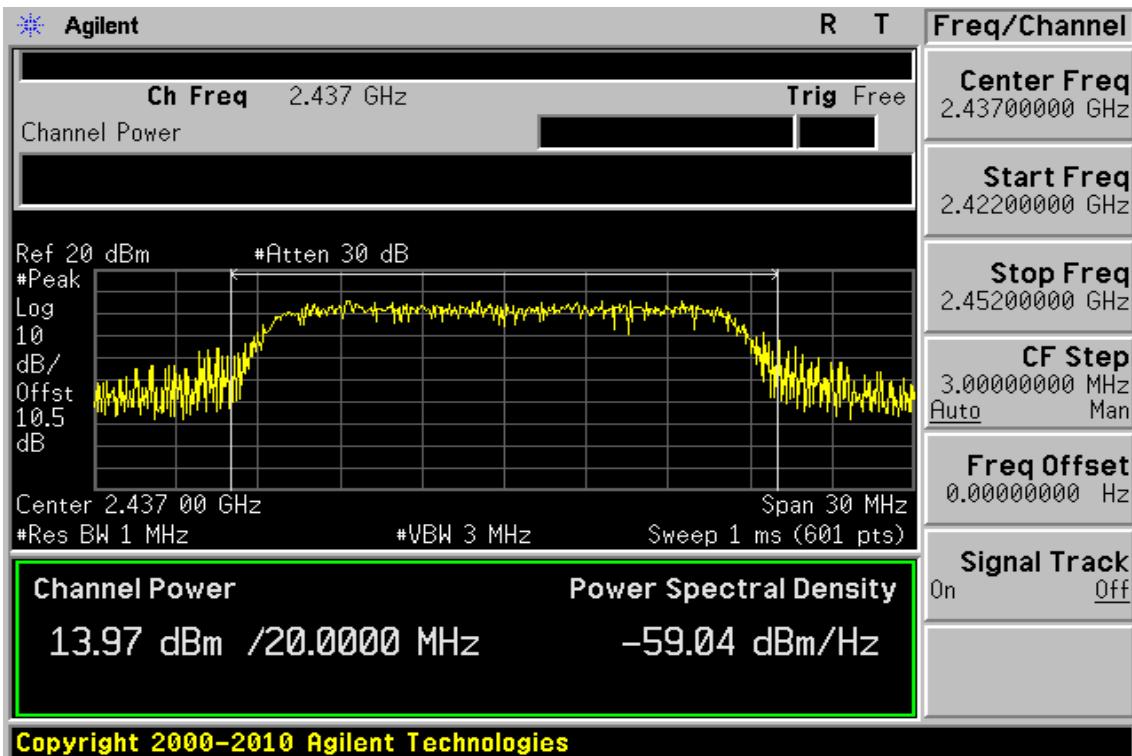
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802.11g, 6Mbps

Peak Power Output Plot (CH Low)



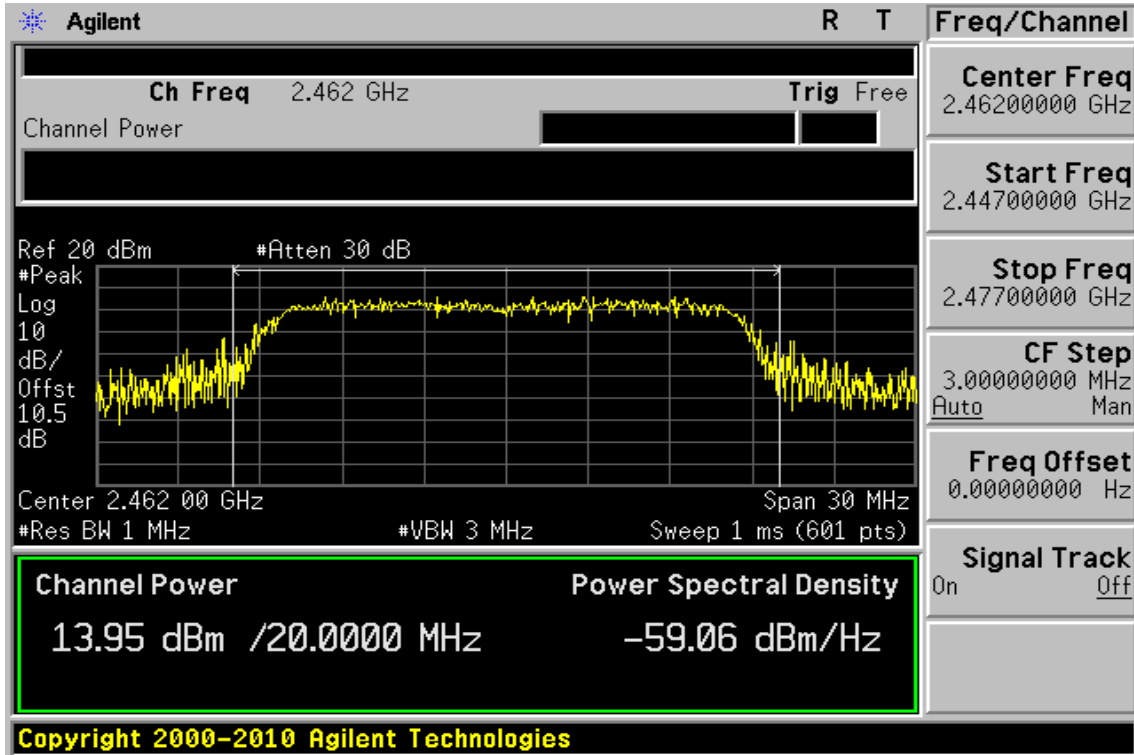
Peak Power Output Plot (CH Mid)



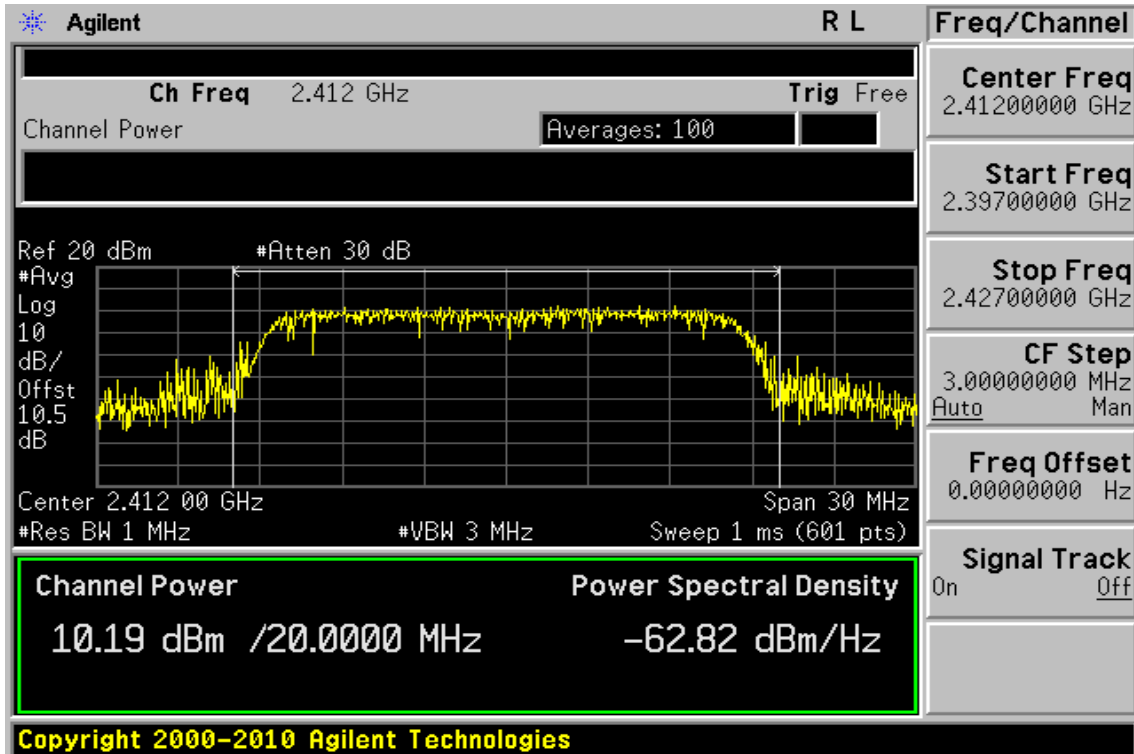
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Peak Power Output Plot (CH High)



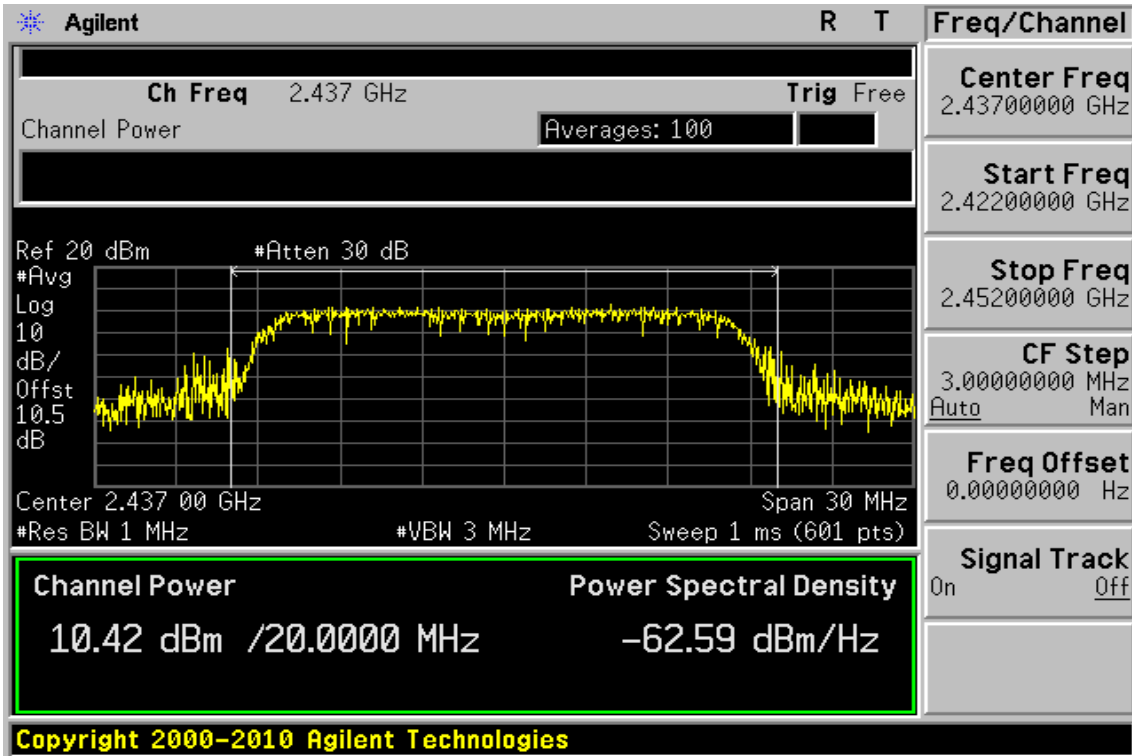
Avg. Power Output Plot (CH Low)



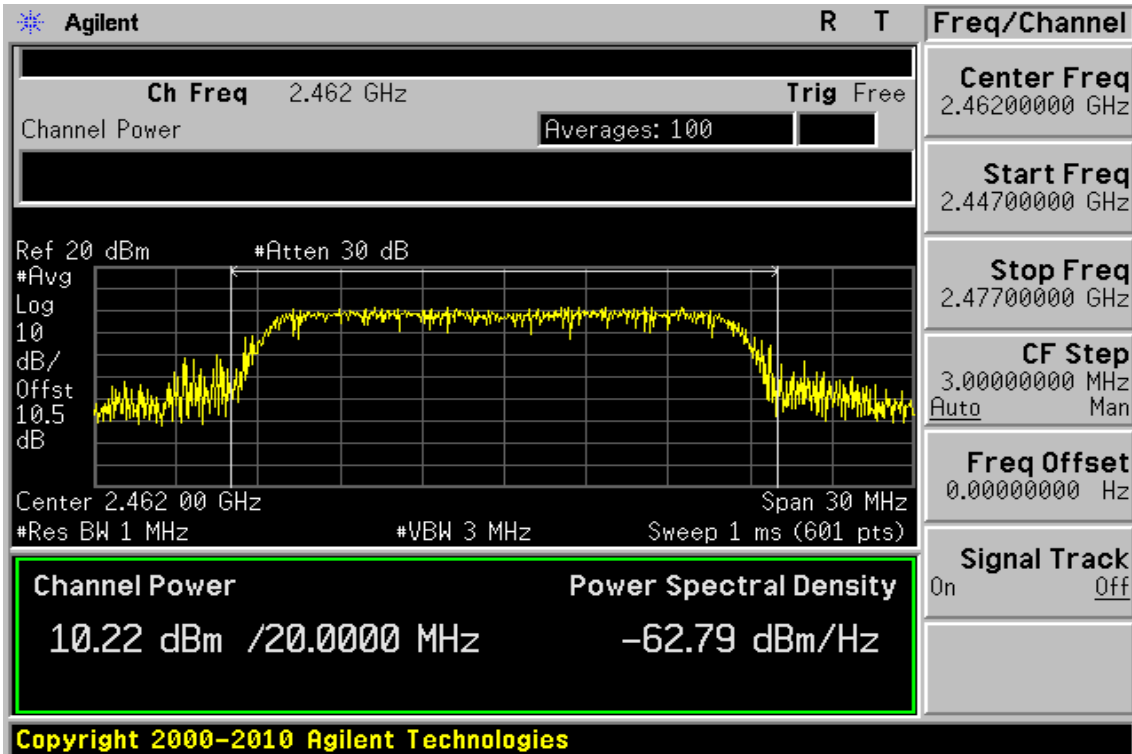
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Avg. Power Output Plot (CH Mid)



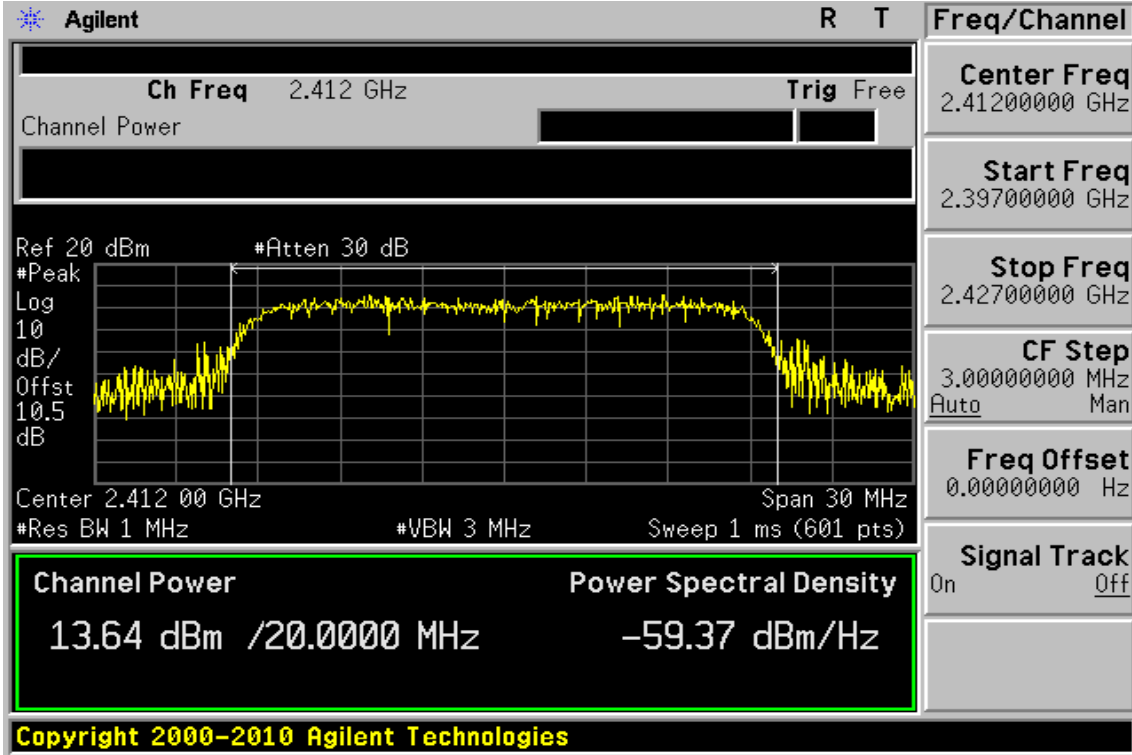
Avg. Power Output Plot (CH High)



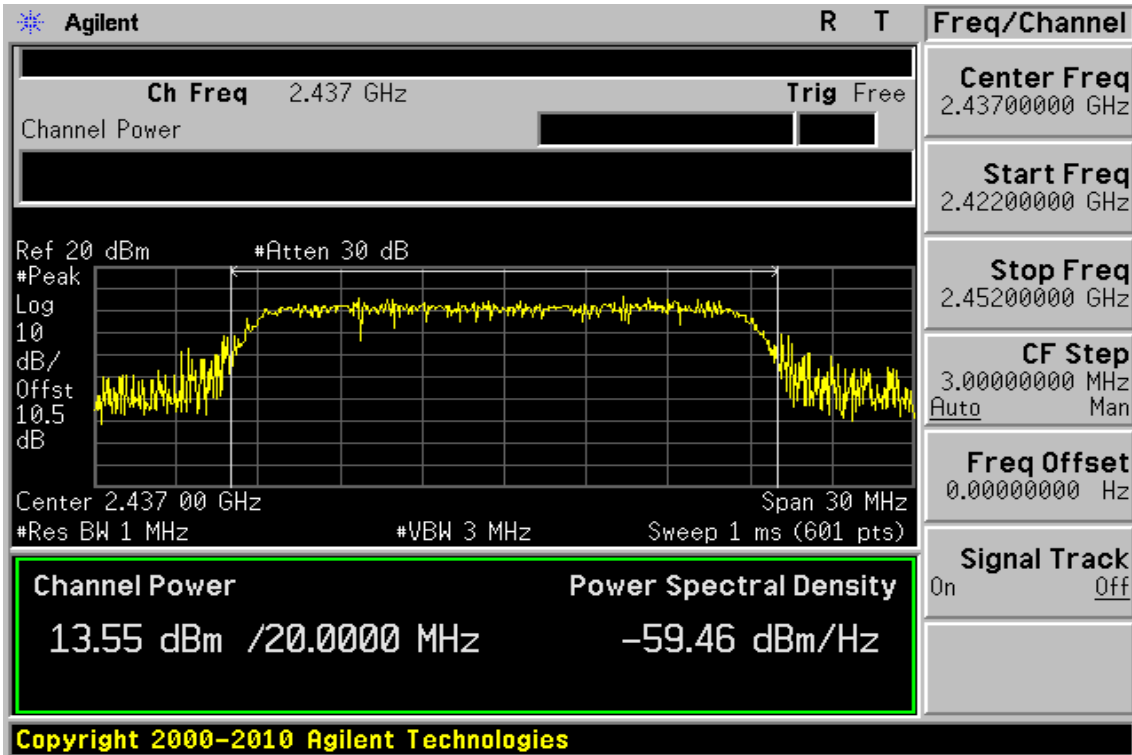
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802.11n_20MHz, 6.5Mbps
Peak Power Output Plot (CH Low)



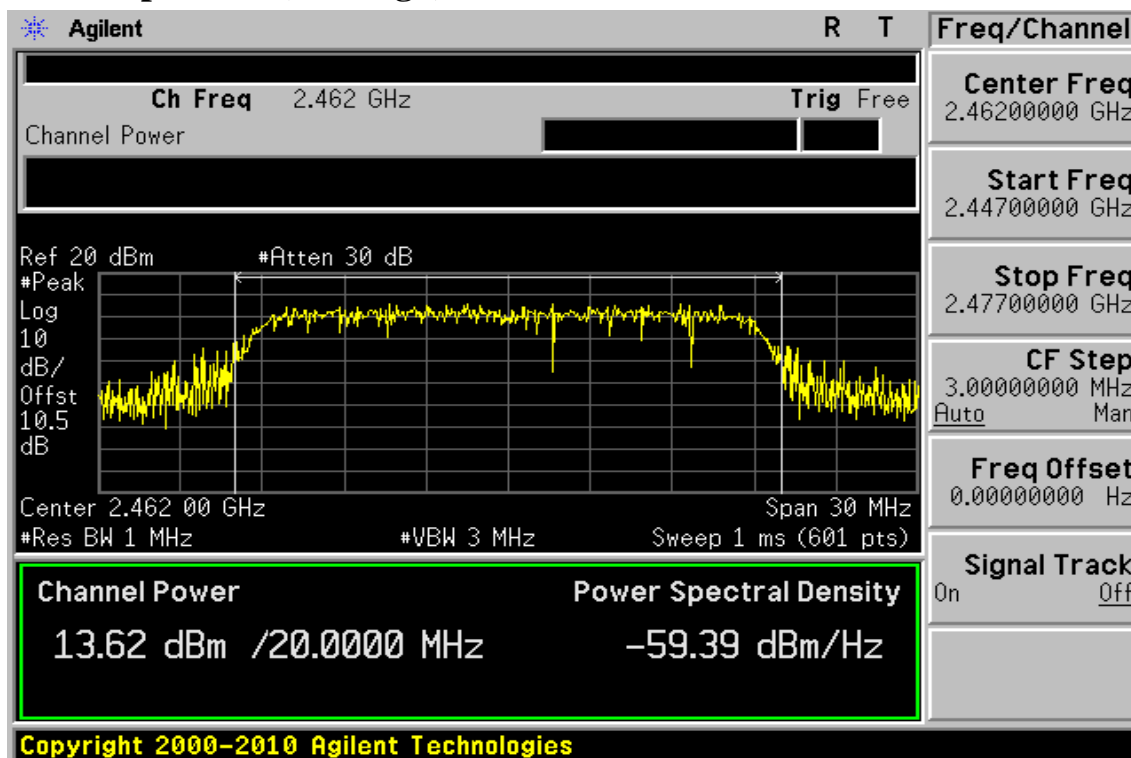
Peak Power Output Plot (CH Mid)



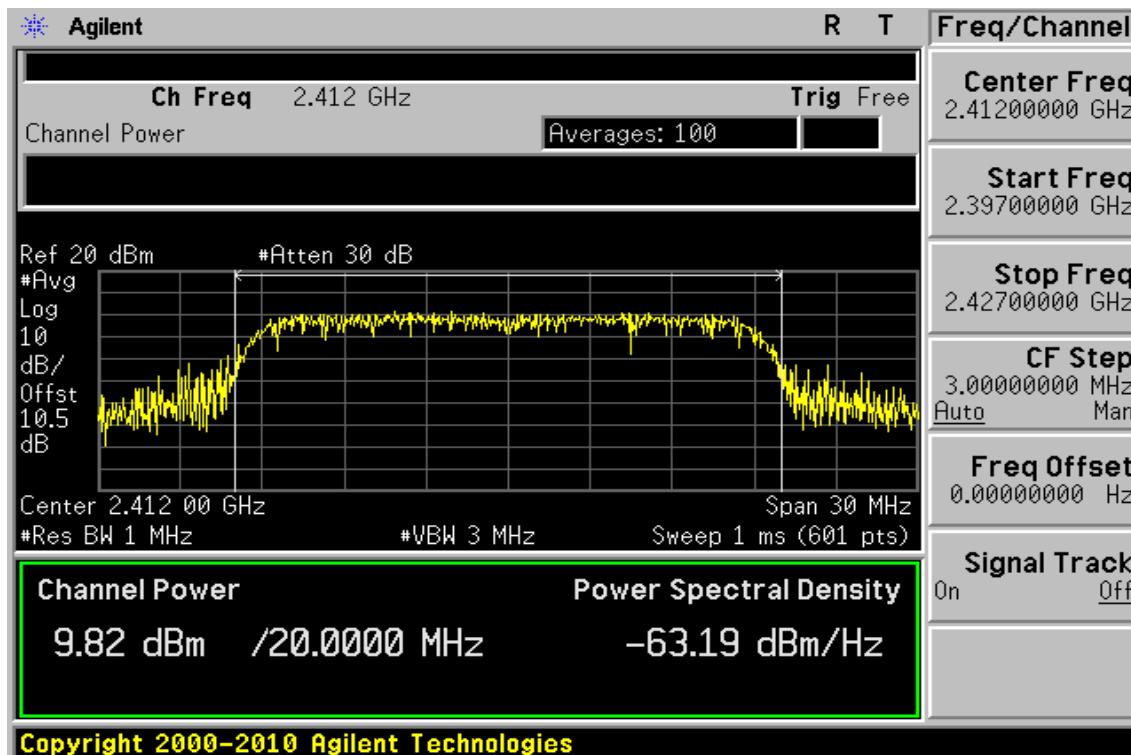
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Peak Power Output Plot (CH High)



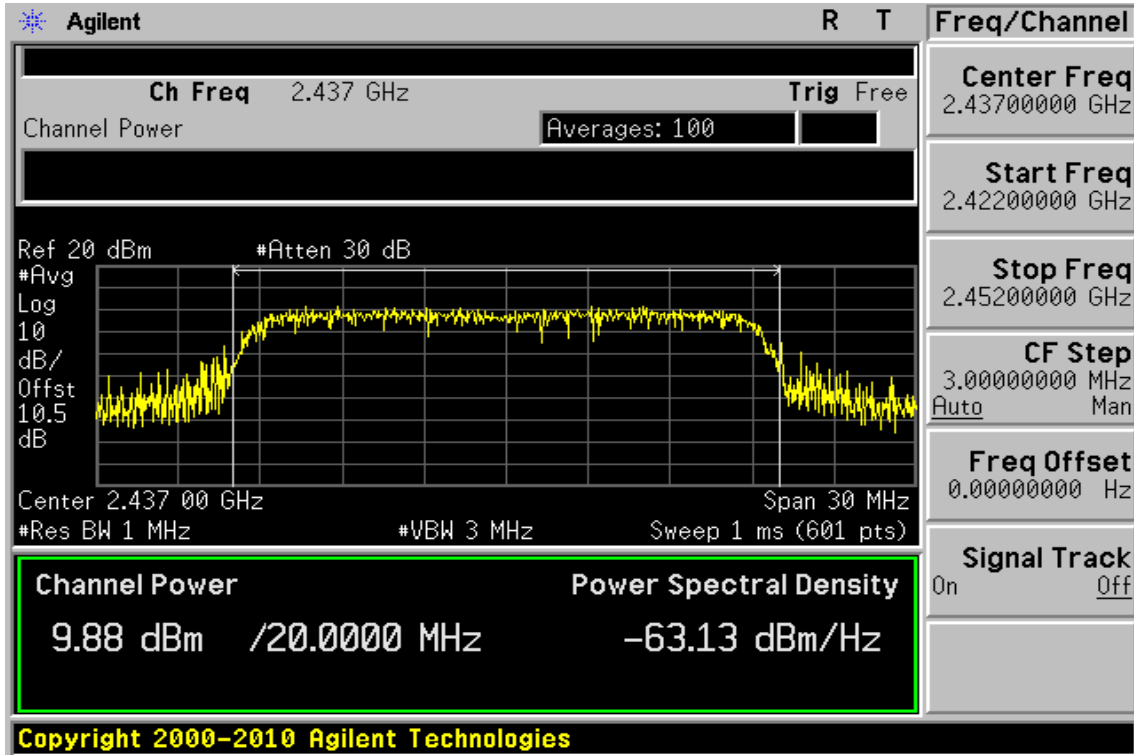
Avg. Power Output Plot (CH Low)



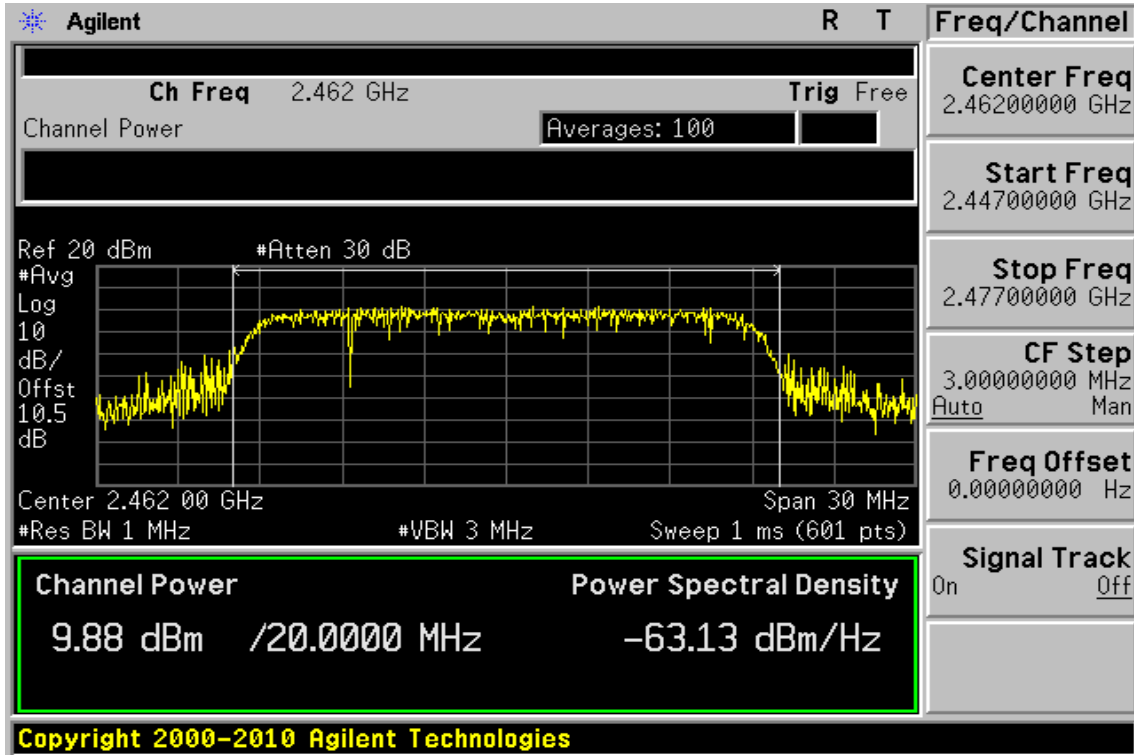
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Avg. Power Output Plot (CH Mid)



Avg. Power Output Plot (CH High)



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台灣檢驗科技股份有限公司

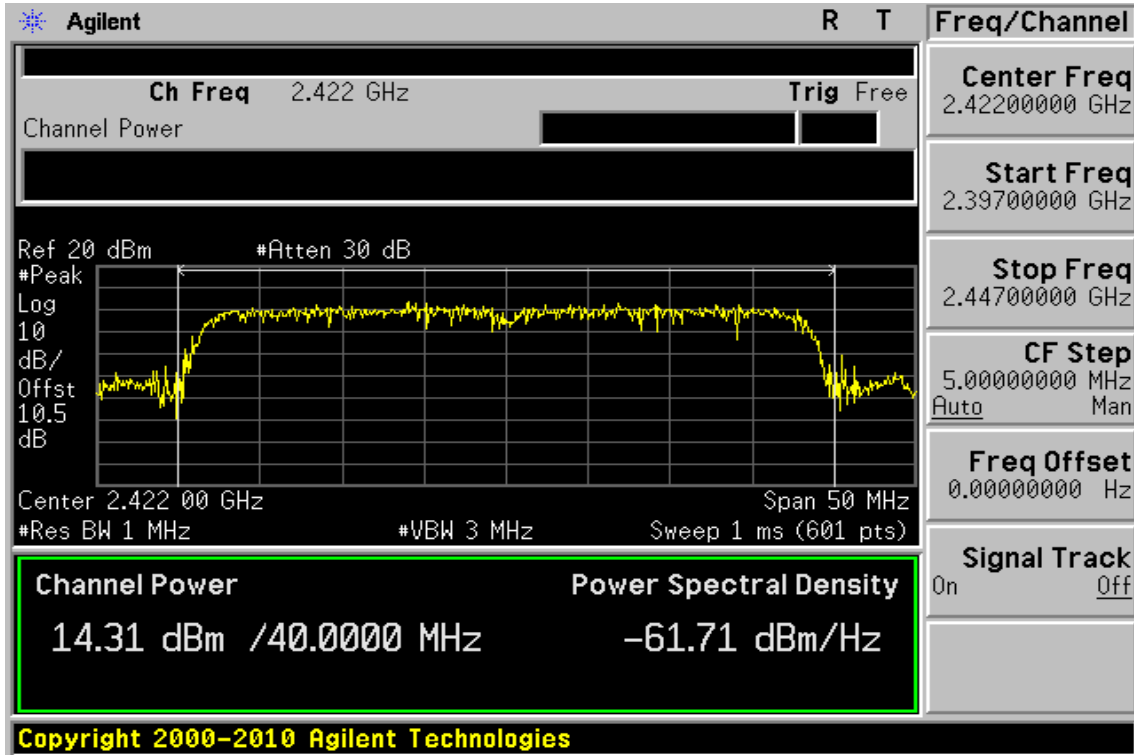
t (886-2) 2299-3279

f (886-2) 2298-0488

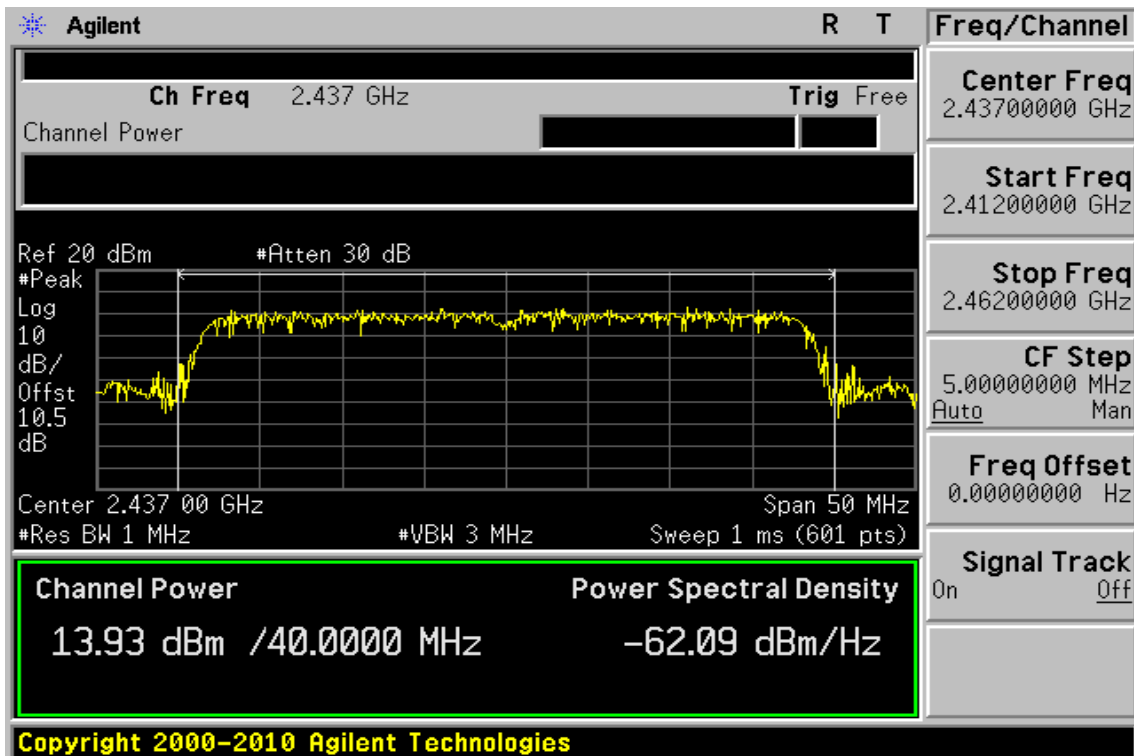
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802.11n_40MHz, 13.5Mbps
Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)

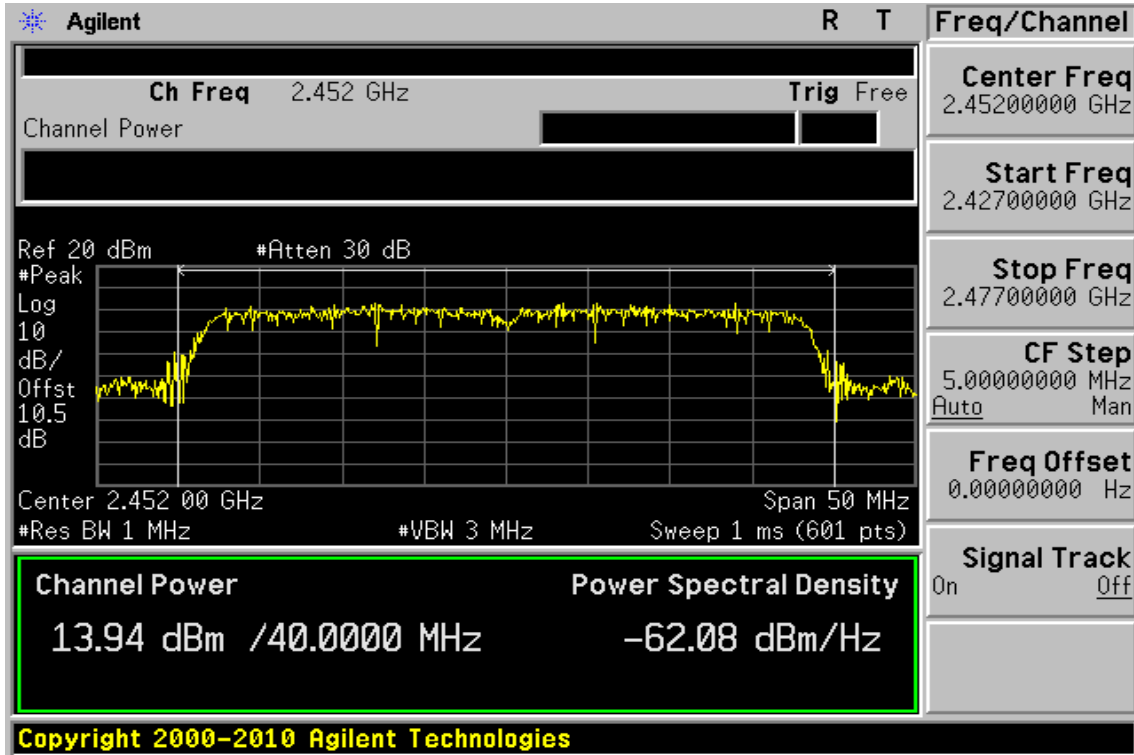


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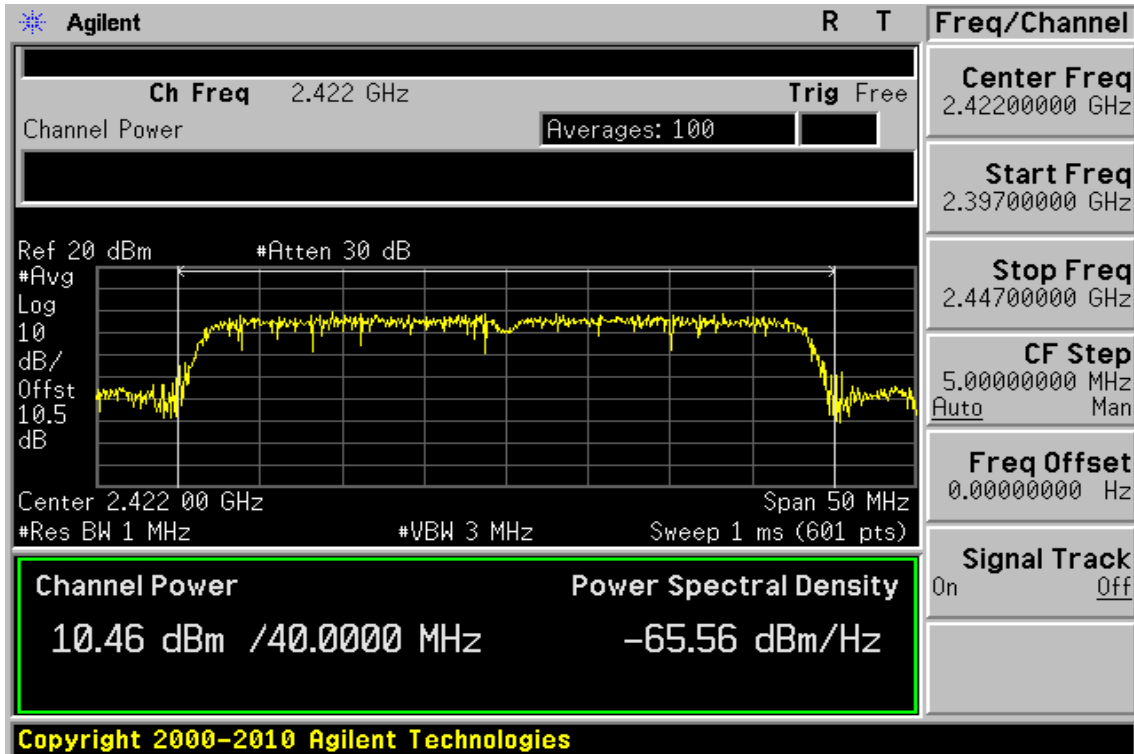
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Peak Power Output Plot (CH High)



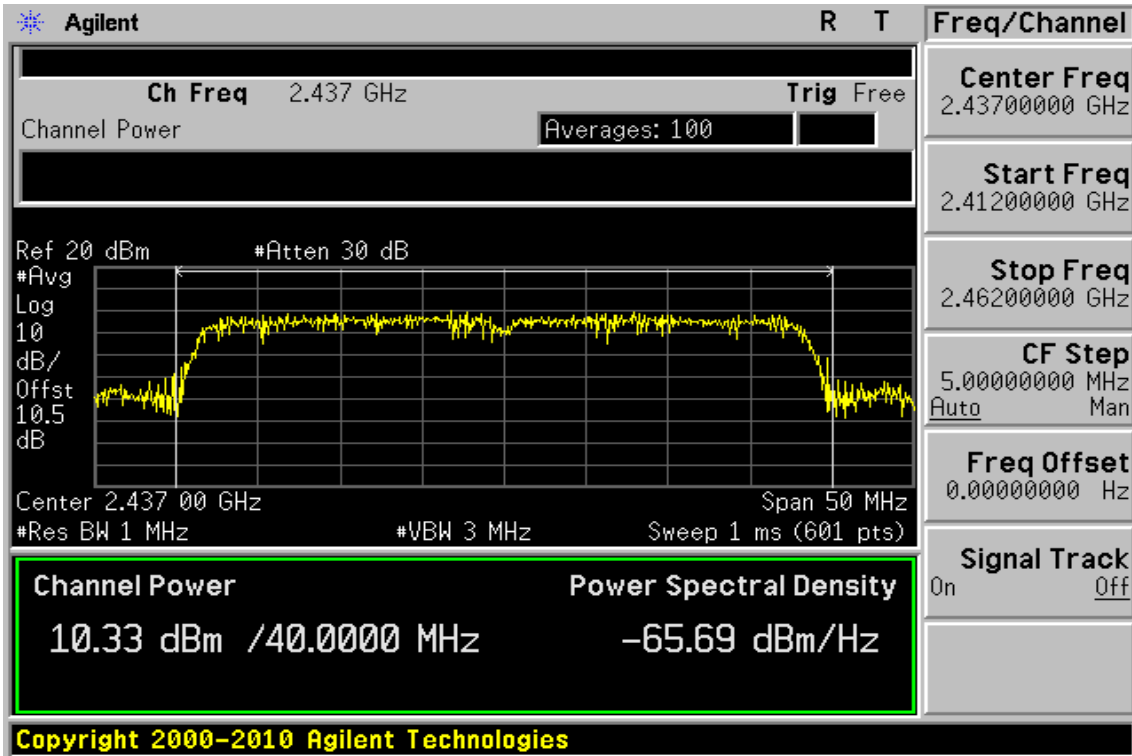
Avg. Power Output Plot (CH Low)



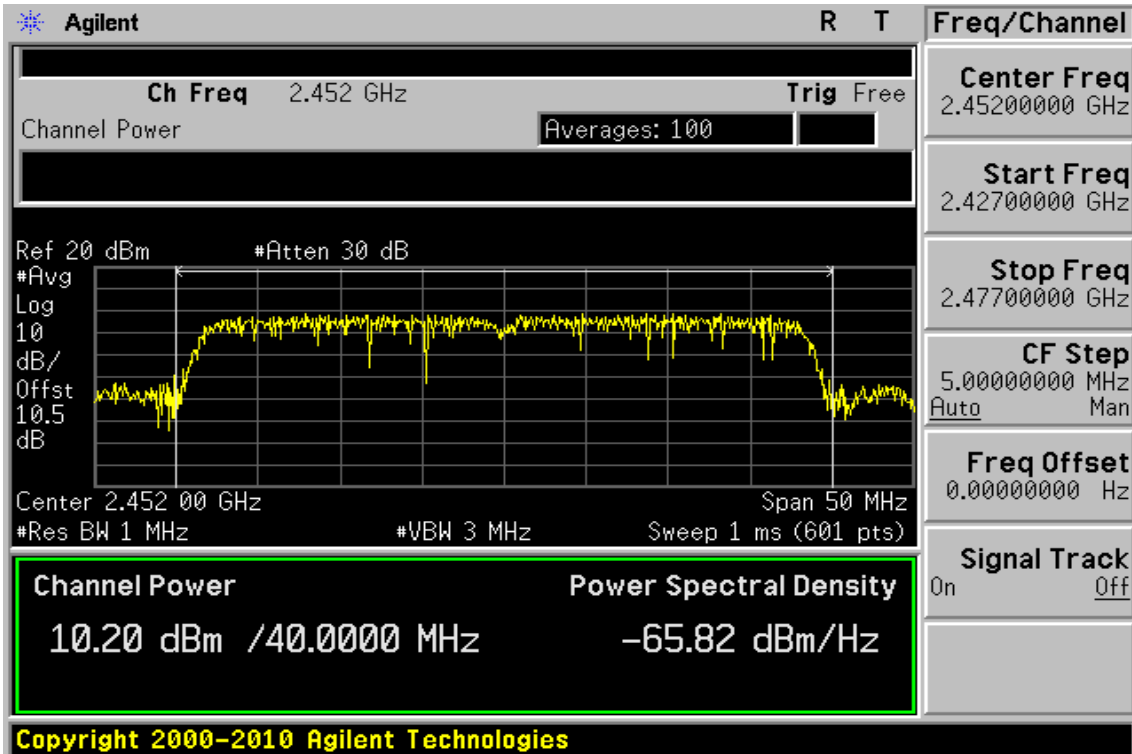
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Avg. Power Output Plot (CH Mid)



Avg. 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.

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 3. antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=100KHz, VBW = 3*RBW, Span= 30M/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

Frequency (MHz)	Bandwidth	Bandwidth	Result
	(MHz)	(KHz)	
2412	10.175	> 500	PASS
2437	10.167	> 500	PASS
2462	10.166	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth	Bandwidth	Result
	(MHz)	(KHz)	
2412	16.435	> 500	PASS
2437	16.444	> 500	PASS
2462	16.452	> 500	PASS

802.11n_20MHz

Frequency (MHz)	Bandwidth	Bandwidth	Result
	(MHz)	(KHz)	
2412	17.662	> 500	PASS
2437	17.671	> 500	PASS
2462	17.676	> 500	PASS

802.11n_40MHz

Frequency (MHz)	Bandwidth	Bandwidth	Result
	(MHz)	(KHz)	
2422	36.112	> 500	PASS
2437	36.190	> 500	PASS
2452	36.109	> 500	PASS

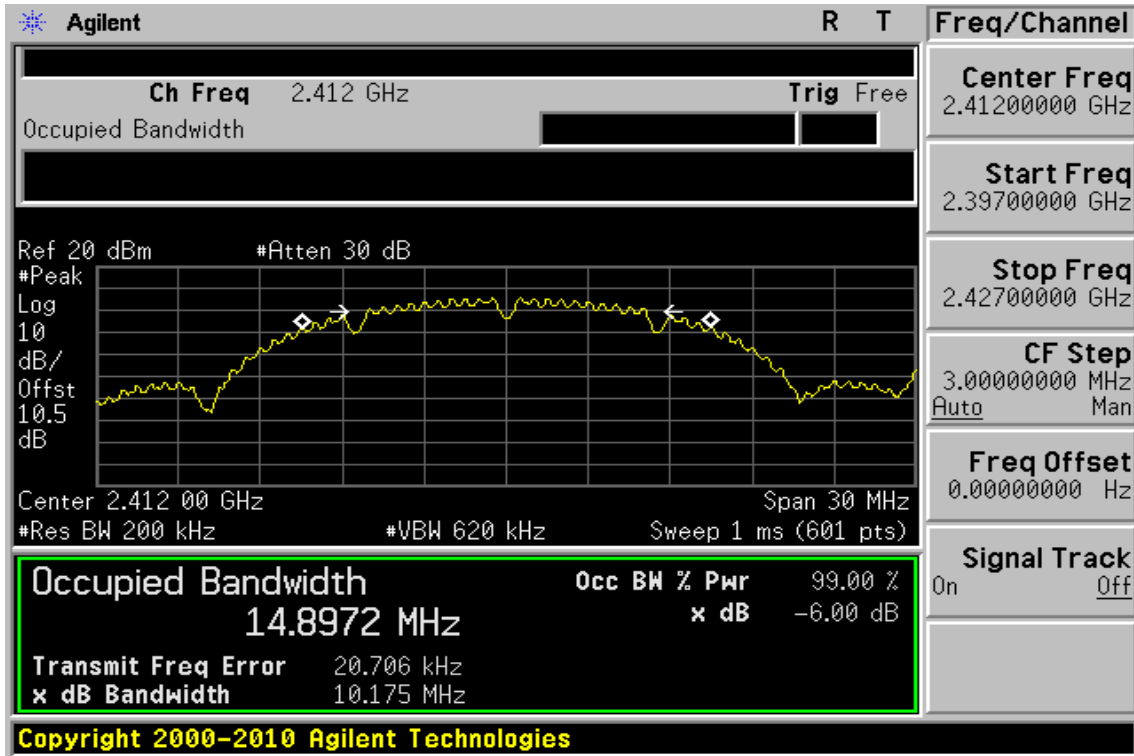
**Note: Offset 10.5dB*

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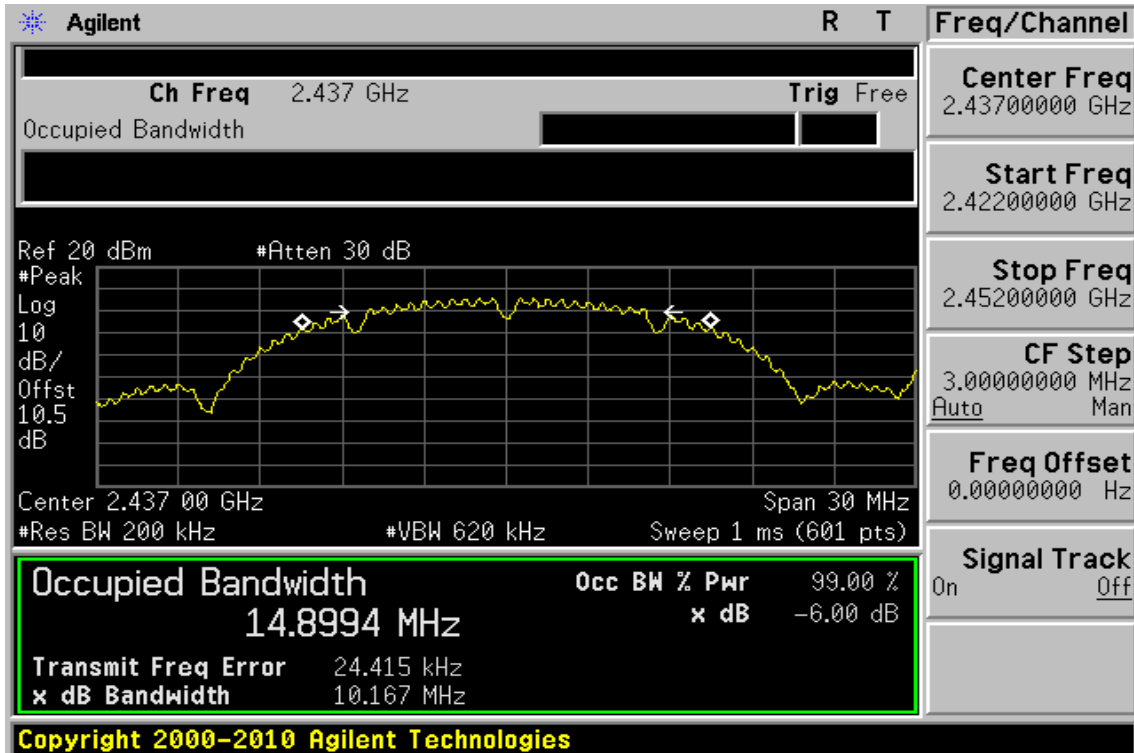
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802.11b

6dB Bandwidth Test Data CH-Low



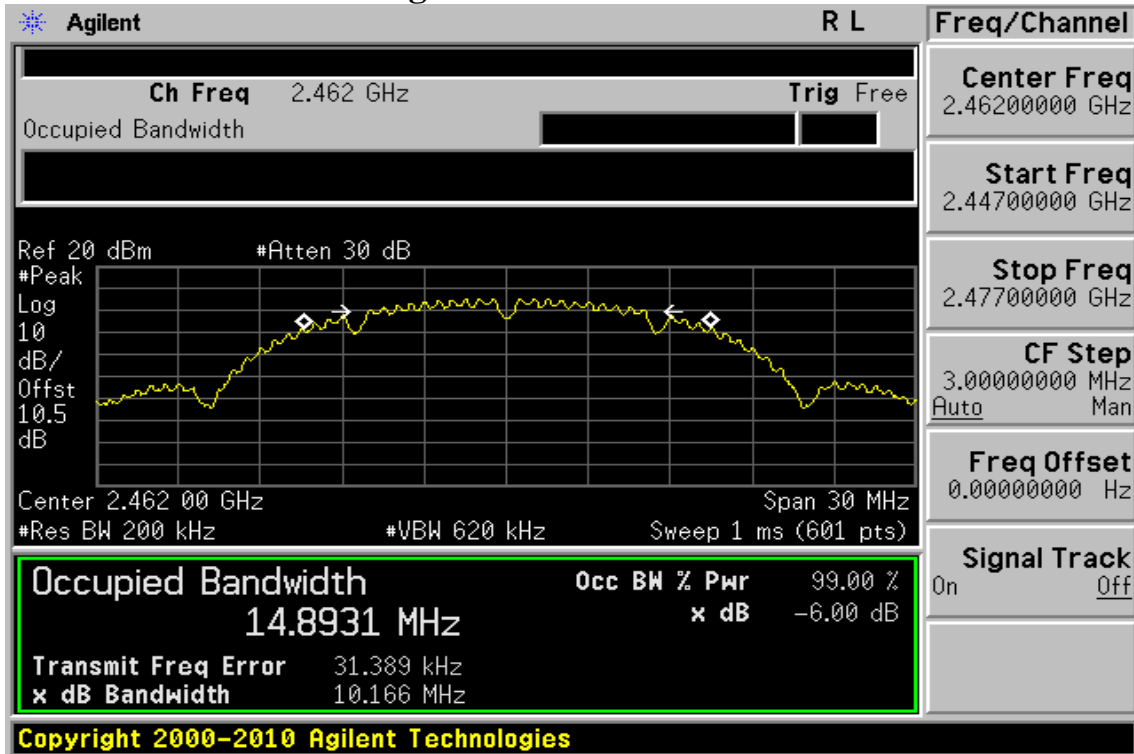
6dB Bandwidth Test Data CH-Mid



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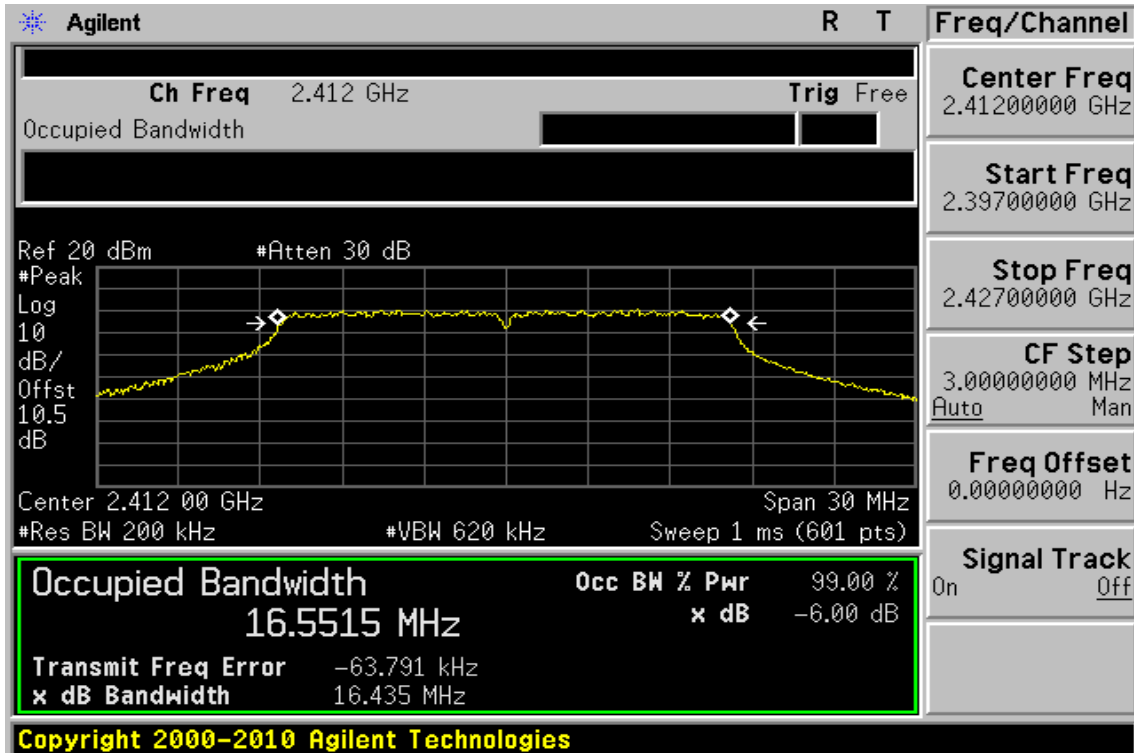
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6dB Bandwidth Test Data CH-High



802.11g

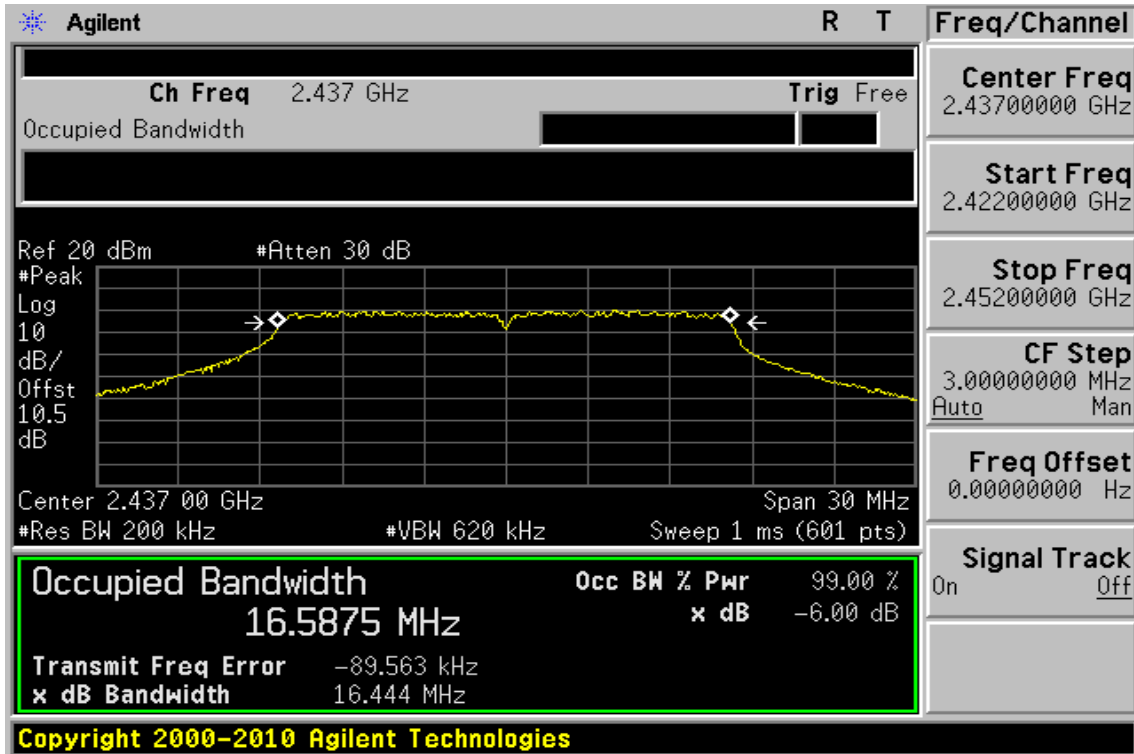
6dB Bandwidth Test Data CH-Low



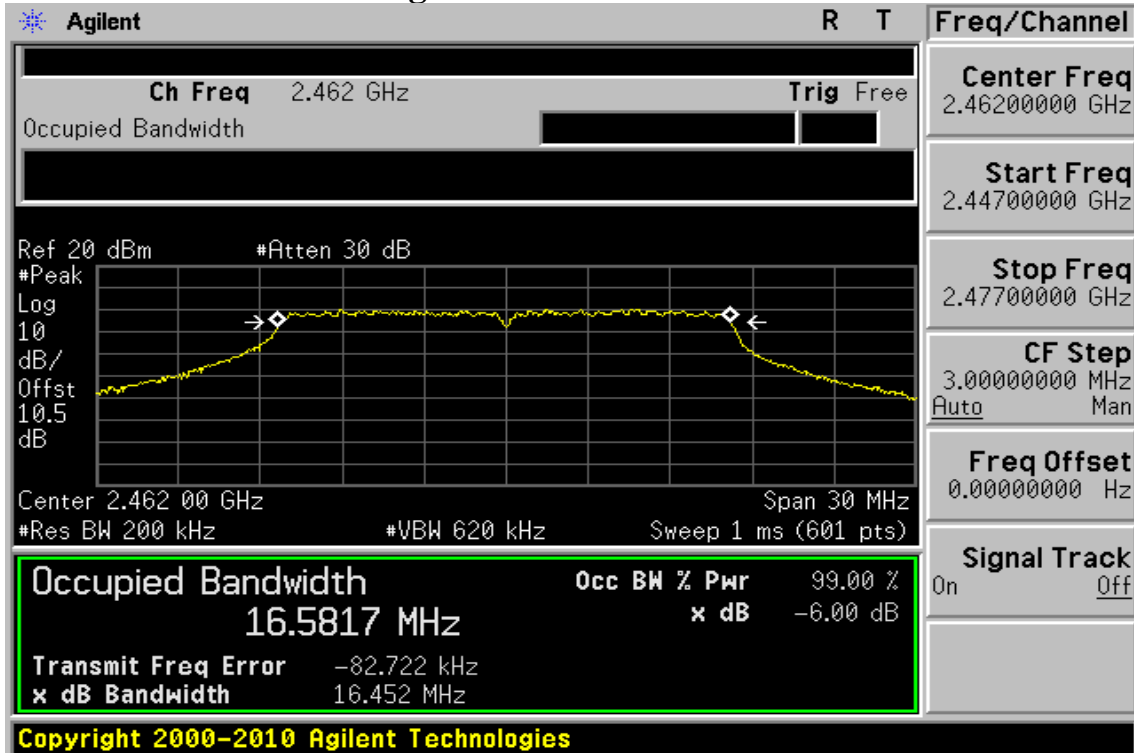
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6dB Bandwidth Test Data CH-Mid



6dB Bandwidth Test Data CH-High

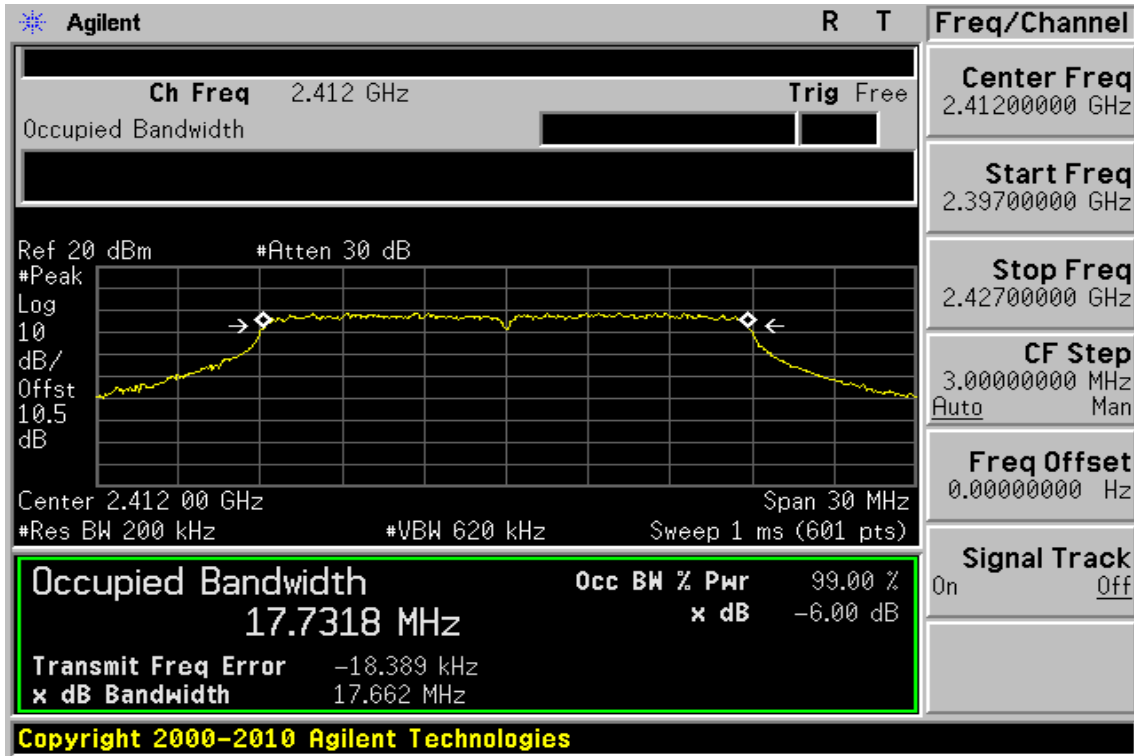


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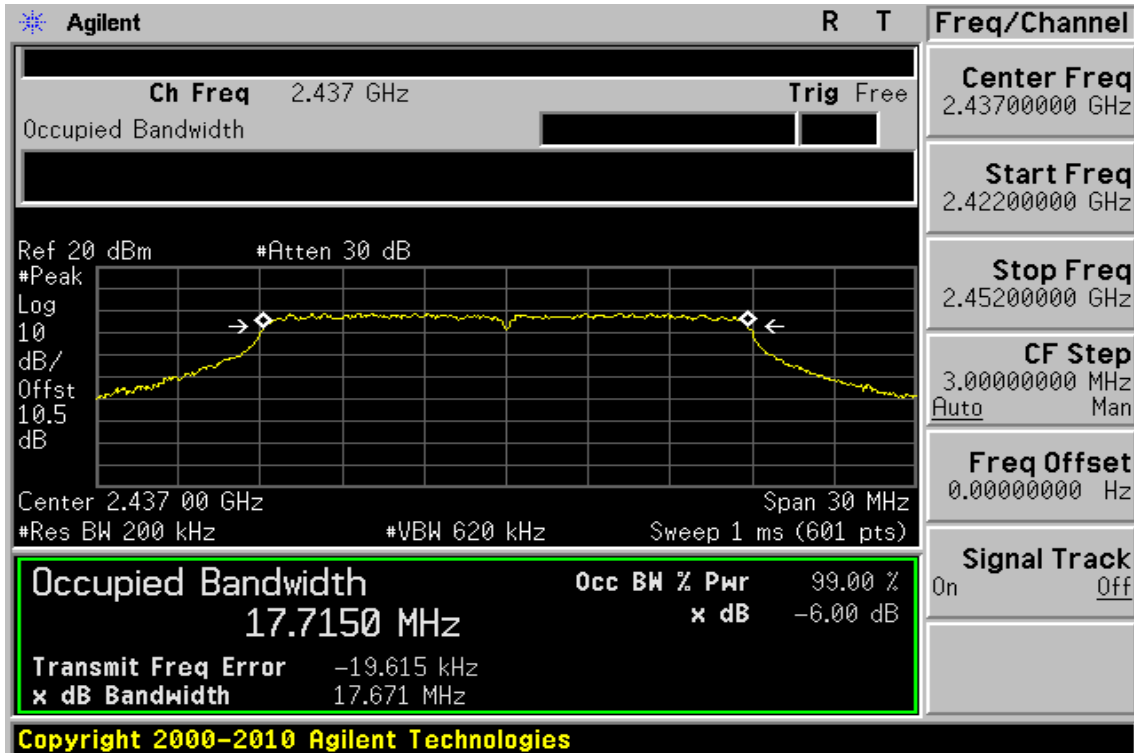
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802.11n_20MHz

6dB Bandwidth Test Data CH-Low



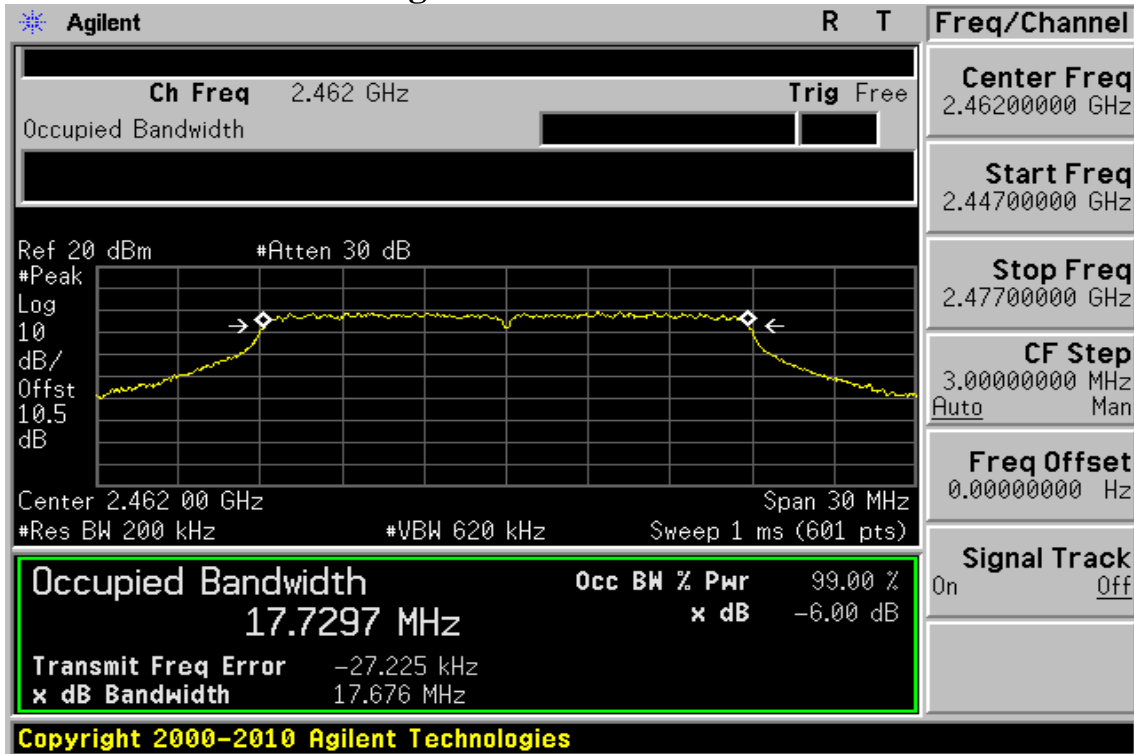
6dB Bandwidth Test Data CH-Mid



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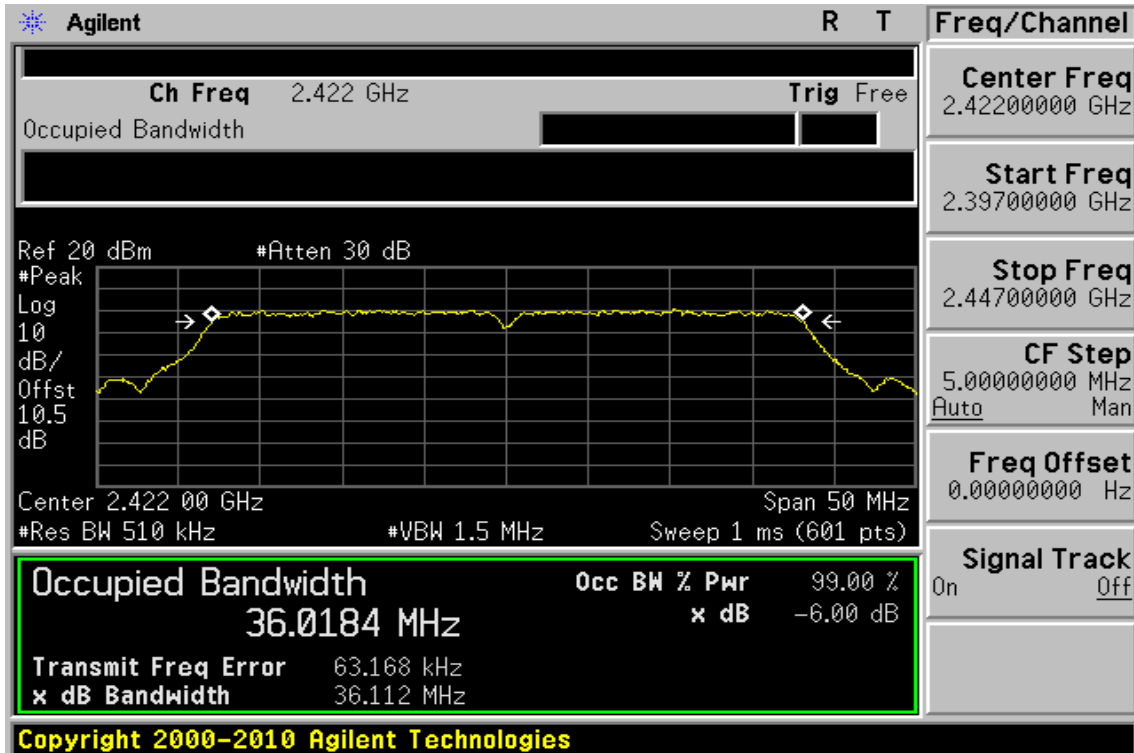
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6dB Bandwidth Test Data CH-High



802.11n_40MHz

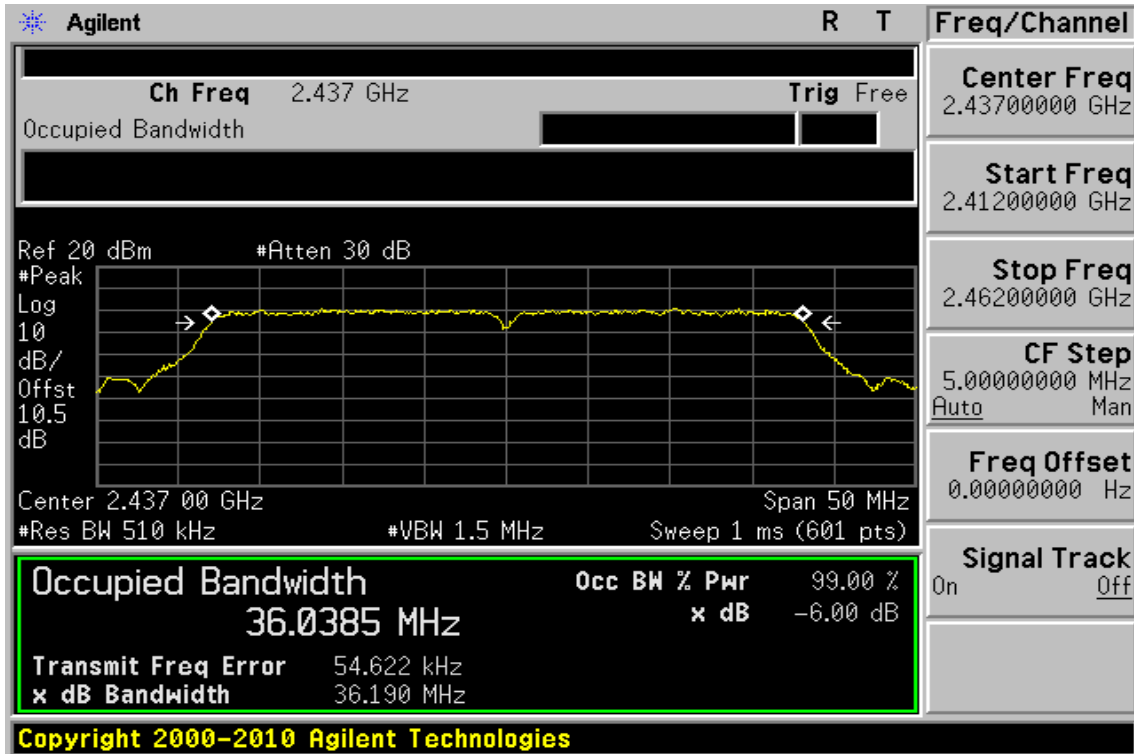
6dB Bandwidth Test Data CH-Low



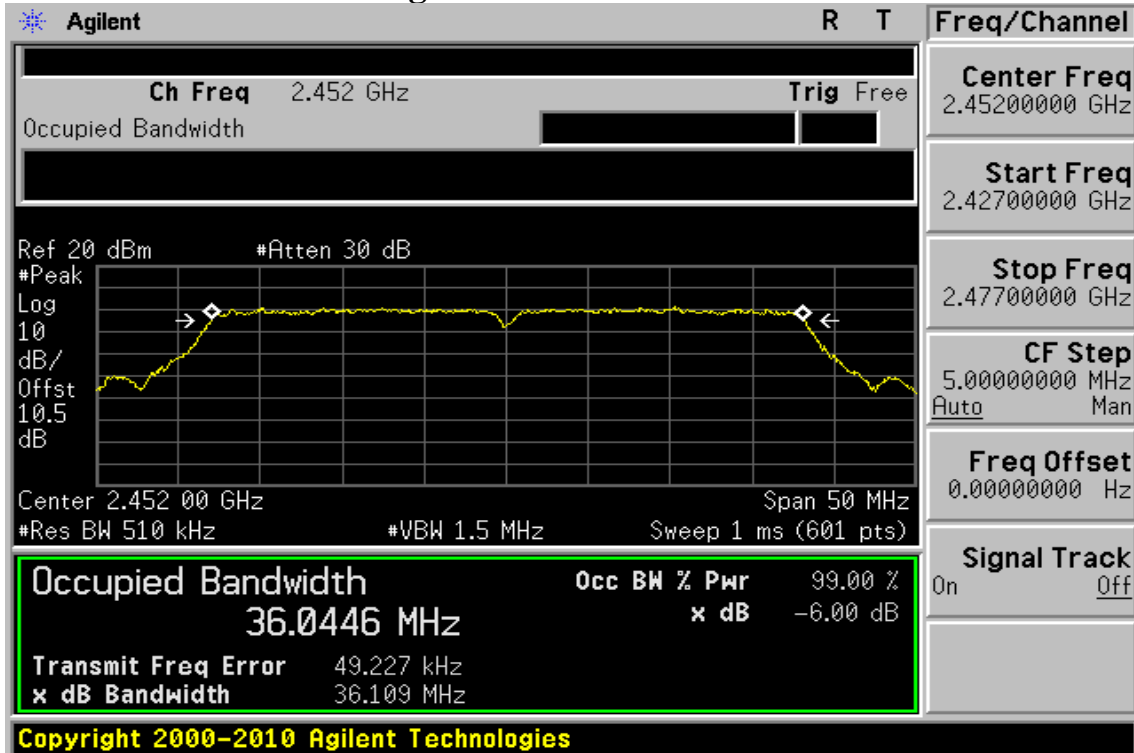
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6dB Bandwidth Test Data CH-Mid



6dB Bandwidth Test Data CH-High



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9 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

9.1 Standard Applicable:

According to §15.247(c), 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).

9.2 Measurement Equipment Used:

9.2.1. Conducted Emission at antenna port:

Refer to section 7.2 for details.

9.2.2. Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	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	07/15/2012	07/14/2013

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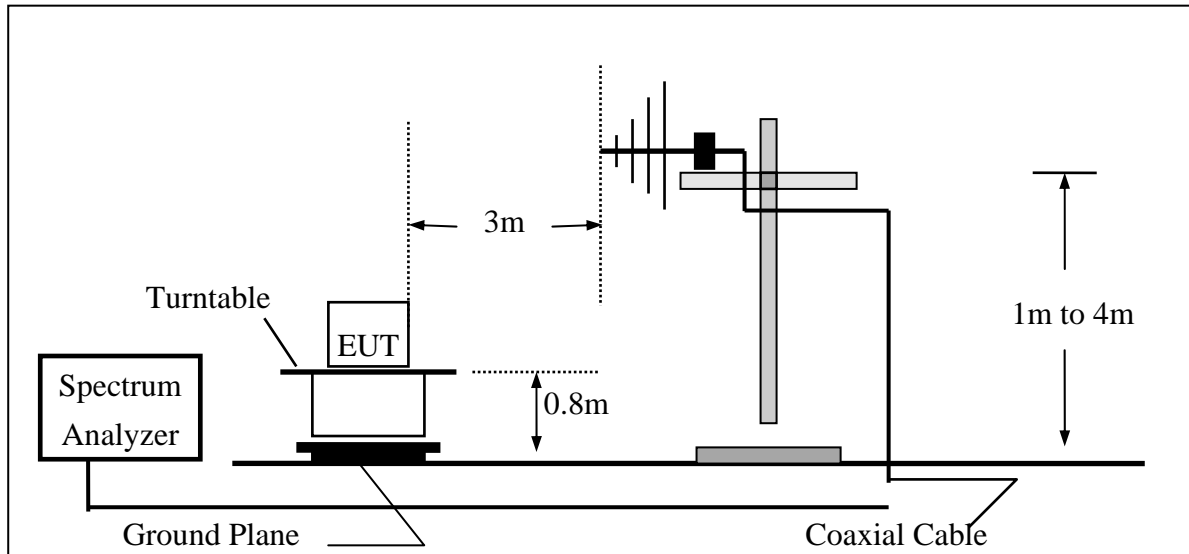
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

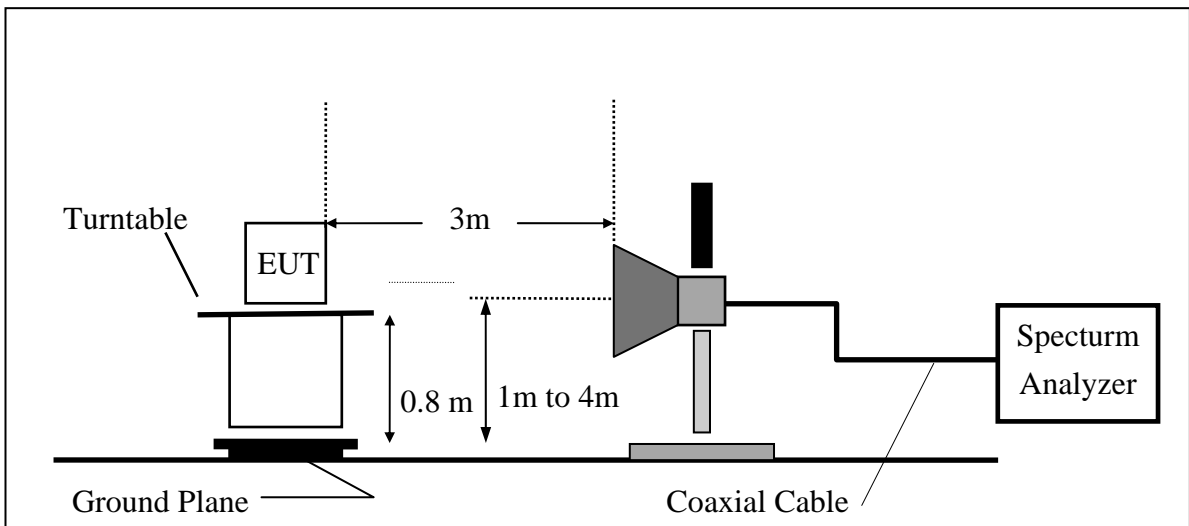
Refer to section 7.3 for details.

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, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.310GHz – 2.390GHz and 2.4835GHz – 2.500GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

9.5 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	

9.6 Measurement Result:

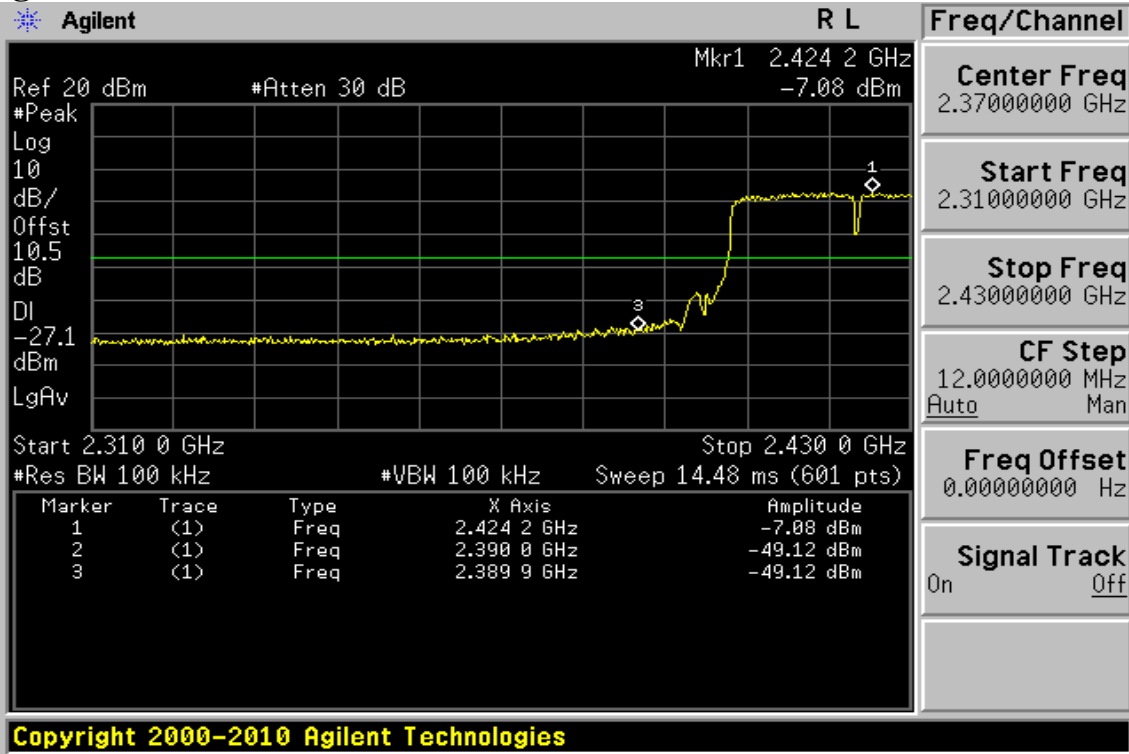
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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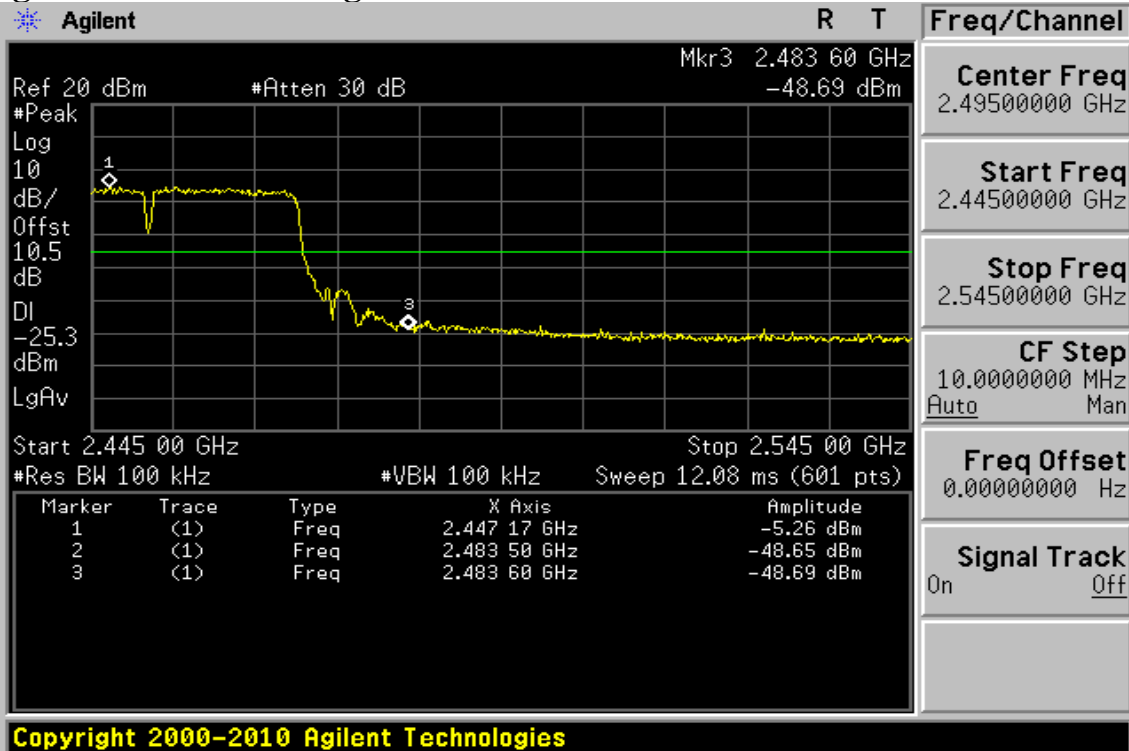
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 b mode

Operation Band :802.11b Test Date :2012-09-03
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	39.86	4.68	44.54	54.00	-9.46
2390.00	E	Peak	49.84	4.68	54.52	74.00	-19.48

Operation Band :802.11b Test Date :2012-09-03
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	41.02	5.30	46.32	54.00	-7.68
2390.00	E	Peak	51.50	5.30	56.80	74.00	-17.20

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Operation Band :802.11b Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.23	5.26	45.49	54.00	-8.51
2483.50	E	Peak	49.88	5.26	55.14	74.00	-18.86

Operation Band :802.11b Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.

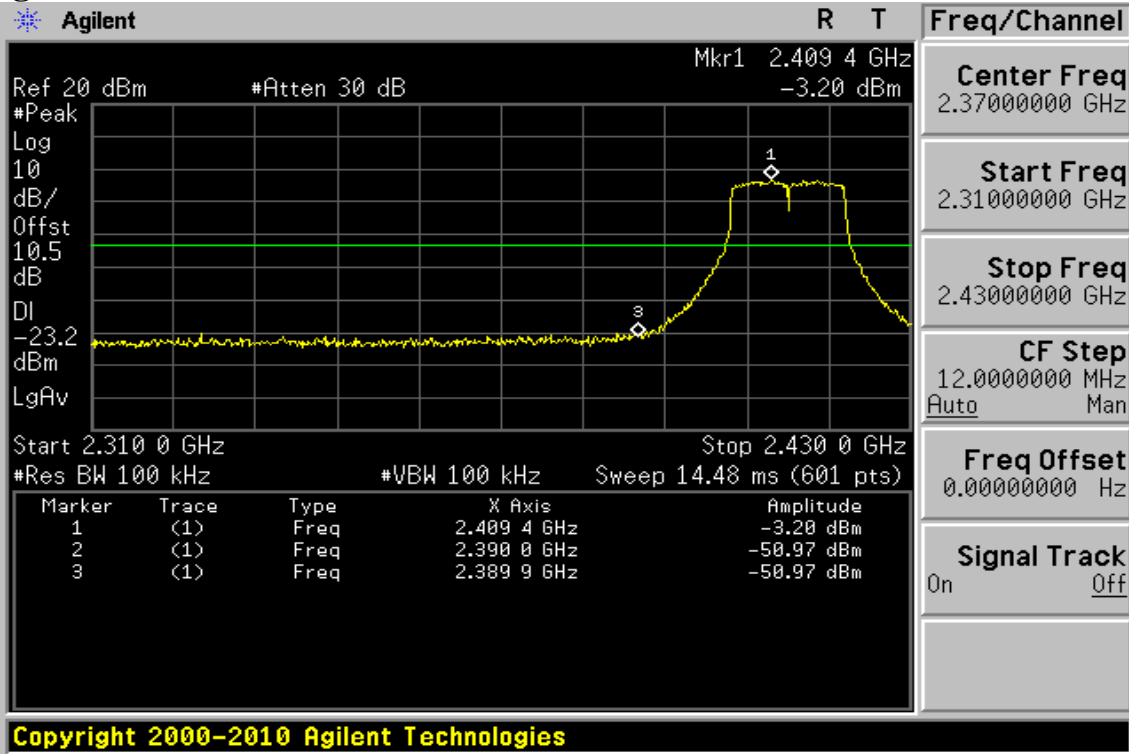
“---” : denotes Noise Floor.

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.18	6.29	46.47	54.00	-7.53
2483.50	E	Peak	49.62	6.29	55.91	74.00	-18.09

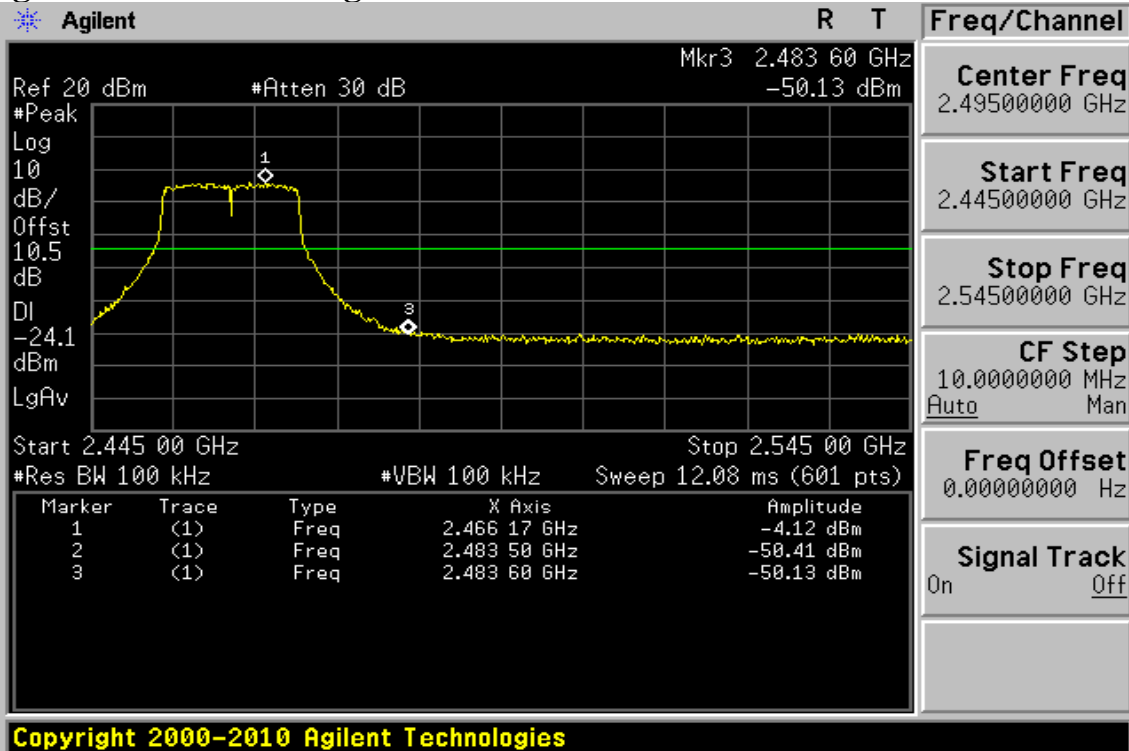
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802.11g
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11 g mode

Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	41.36	4.68	46.04	54.00	-7.96
2390.00	E	Peak	54.10	4.68	58.78	74.00	-15.22

Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW BANDEDGE	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	44.28	5.30	49.58	54.00	-4.42
2390.00	E	Peak	60.70	5.30	66.00	74.00	-8.00

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Operation Band :802.11g Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.57	5.26	45.83	54.00	-8.17
2483.50	E	Peak	50.35	5.26	55.61	74.00	-18.39

Operation Band :802.11g Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.

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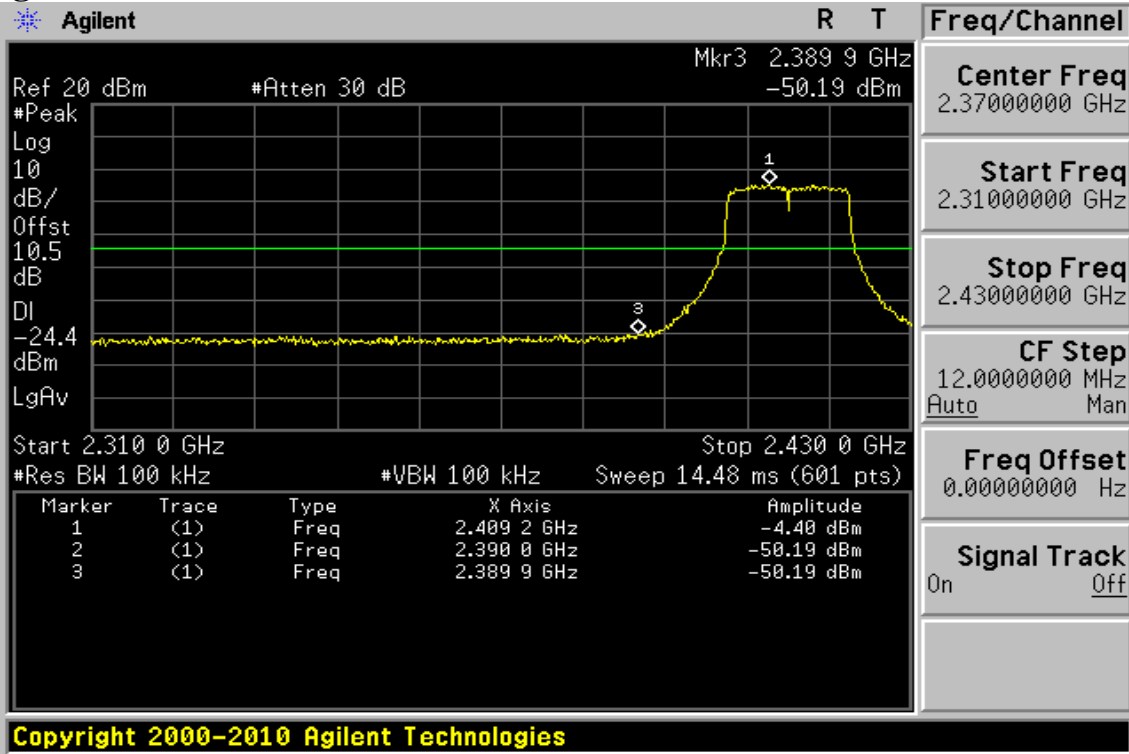
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.12	6.29	46.41	54.00	-7.59
2483.50	E	Peak	50.27	6.29	56.56	74.00	-17.44

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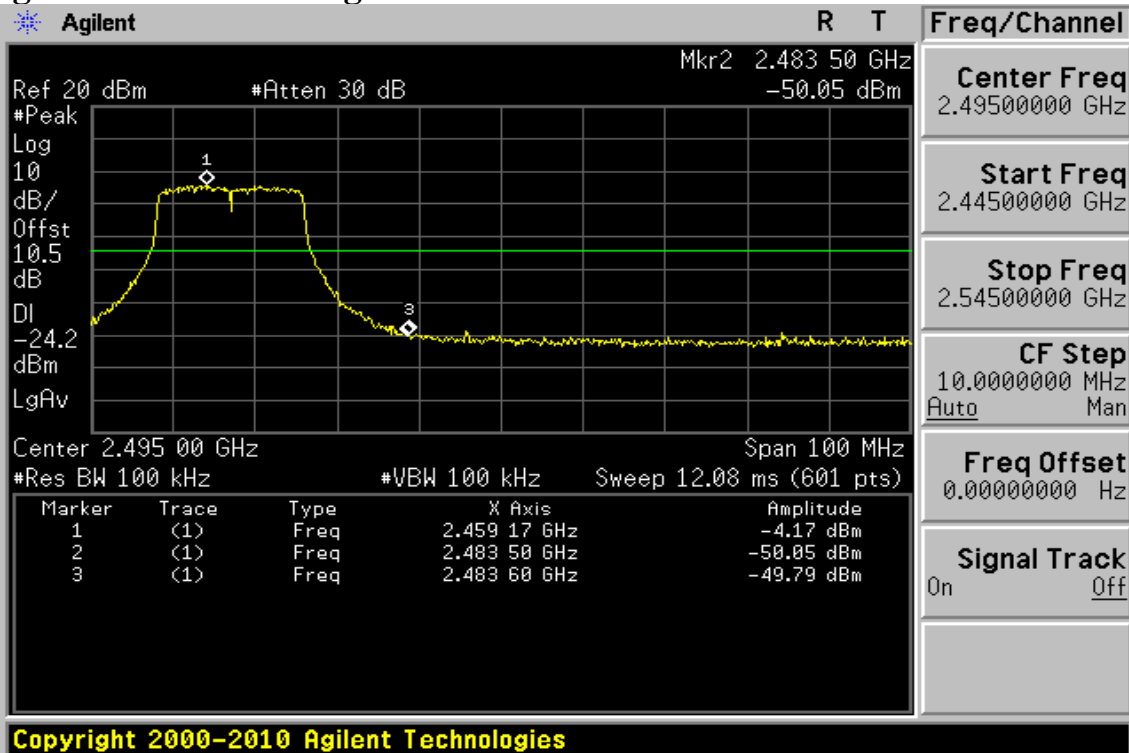
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802.11n_20MHz

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11n_20MHz mode

Operation Band :802.11n 20M Test Date :2012-09-03
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	41.03	4.68	45.71	54.00	-8.29
2390.00	E	Peak	54.39	4.68	59.07	74.00	-14.93

Operation Band :802.11n 20M Test Date :2012-09-03
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	43.21	5.30	48.51	54.00	-5.49
2390.00	E	Peak	59.20	5.30	64.50	74.00	-9.50

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Operation Band :802.11n 20M Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.16	5.26	45.42	54.00	-8.58
2483.50	E	Peak	50.27	5.26	55.53	74.00	-18.47

Operation Band :802.11n 20M Test Date :2012-09-03
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.

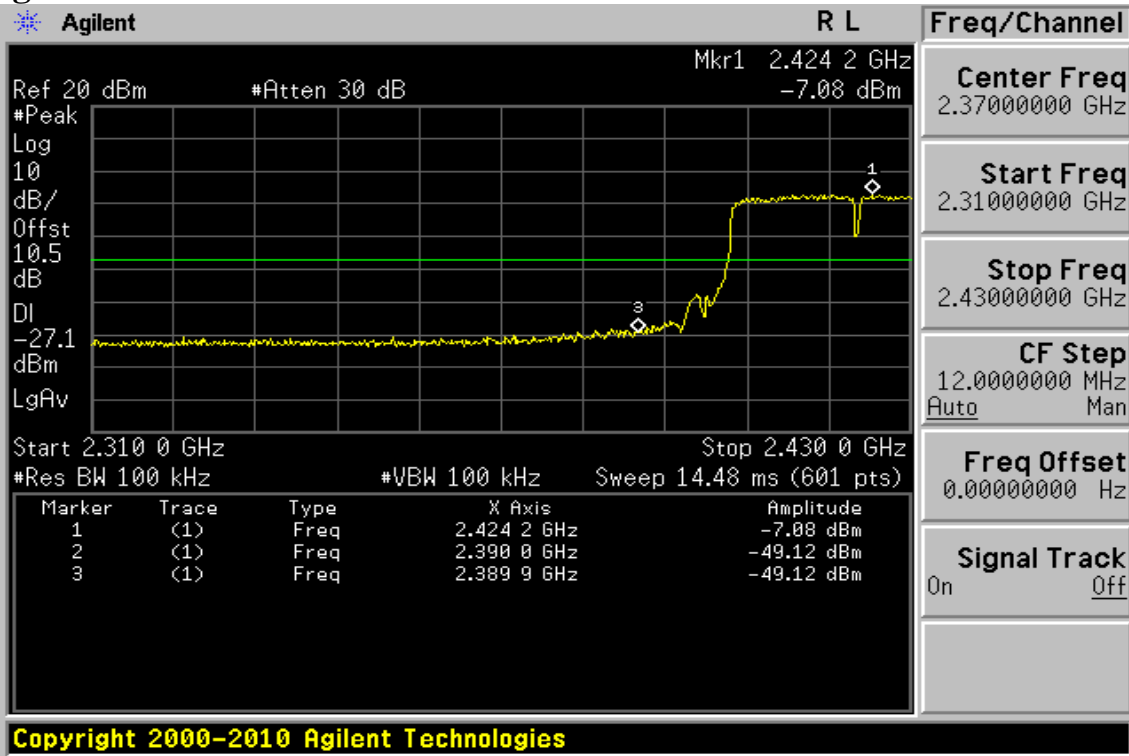
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	40.12	6.29	46.41	54.00	-7.59
2483.50	E	Peak	50.56	6.29	56.85	74.00	-17.15

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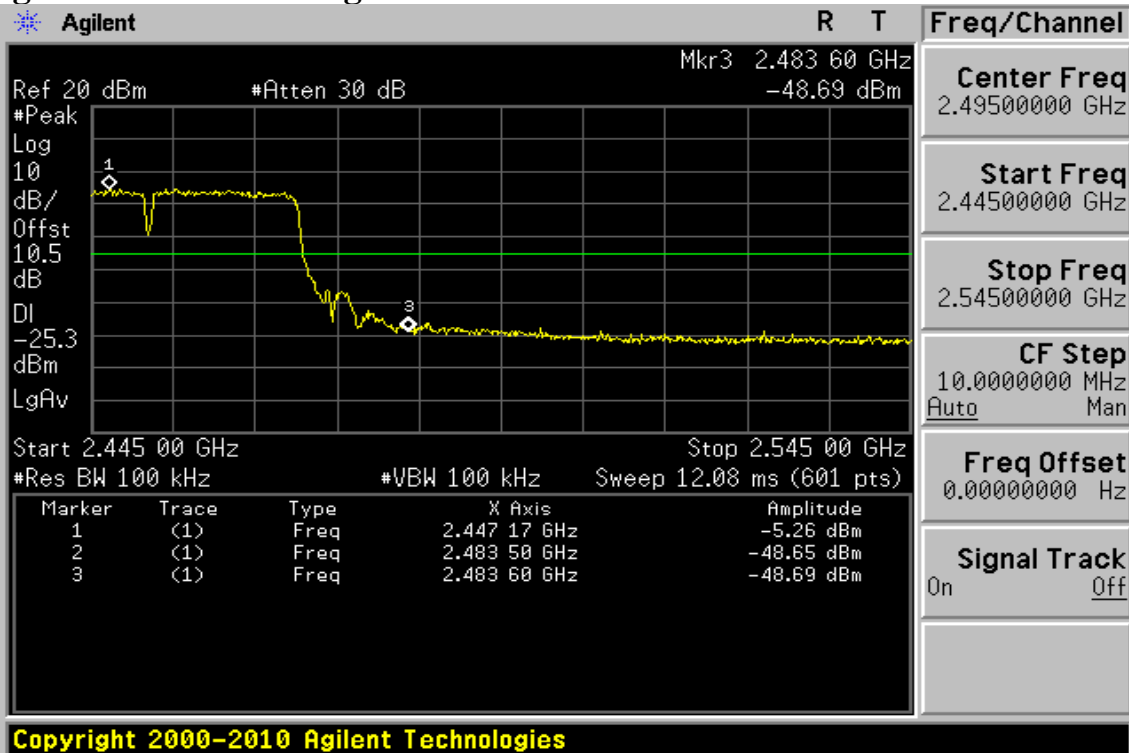
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802.11n_40MHz

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Radiated Emission: 802.11n_40MHz mode

Operation Band :802.11n 40M Test Date :2012-09-03
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	40.14	4.68	44.82	54.00	-9.18
2390.00	E	Peak	50.89	4.68	55.57	74.00	-18.43

Operation Band :802.11n 40M Test Date :2012-09-03
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX LOW BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Average	43.10	5.30	48.40	54.00	-5.60
2390.00	E	Peak	55.73	5.30	61.03	74.00	-12.97

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Operation Band :802.11n 40M Test Date :2012-09-03
 Fundamental Frequency :2452 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	39.51	5.26	44.77	54.00	-9.23
2483.50	E	Peak	49.99	5.26	55.25	74.00	-18.75

Operation Band :802.11n 40M Test Date :2012-09-03
 Fundamental Frequency :2452 MHz Temp./Humi. :25.1 deg_C / 67 RH
 Operation Mode :TX HIGH BANDEDGE Engineer :Marcus
 EUT Pol. :E2 PLAN Measurement Antenna Pol. :HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Average	44.71	6.29	51.00	54.00	-3.00
2483.50	E	Peak	51.79	6.29	58.08	74.00	-15.92

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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.

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 30M to 3G and 3G to 26.5G for 2.4G, 30M to 6G, 6G to 18G and 18G to 40G for 5G.
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	

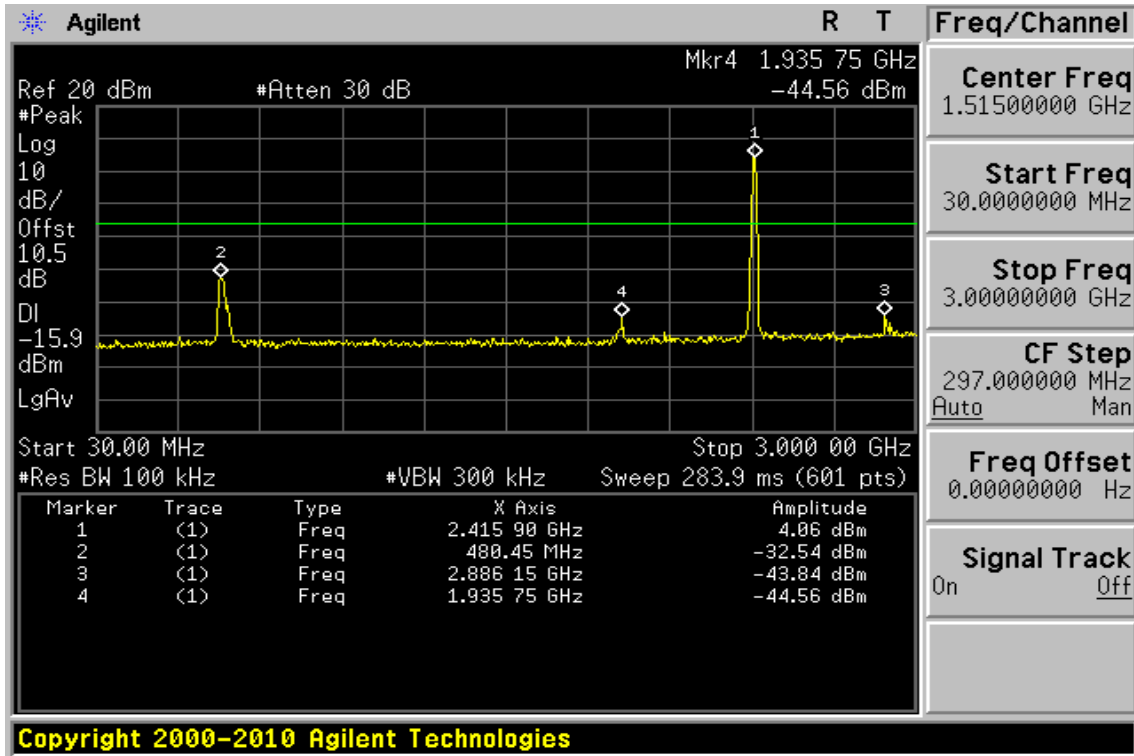
10.6 Measurement Result:

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

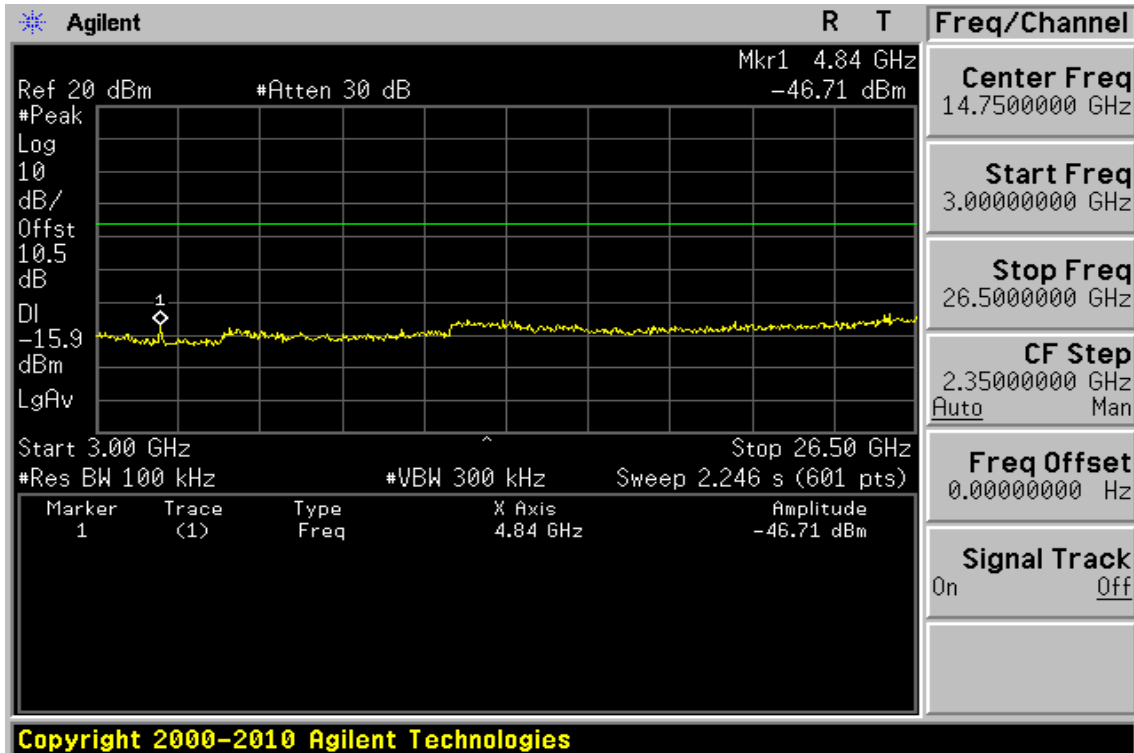
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Conducted Spurious Emission Measurement Result (802.11b) Ch Low 30MHz – 3GHz



Ch Low 3GHz – 26.5GHz

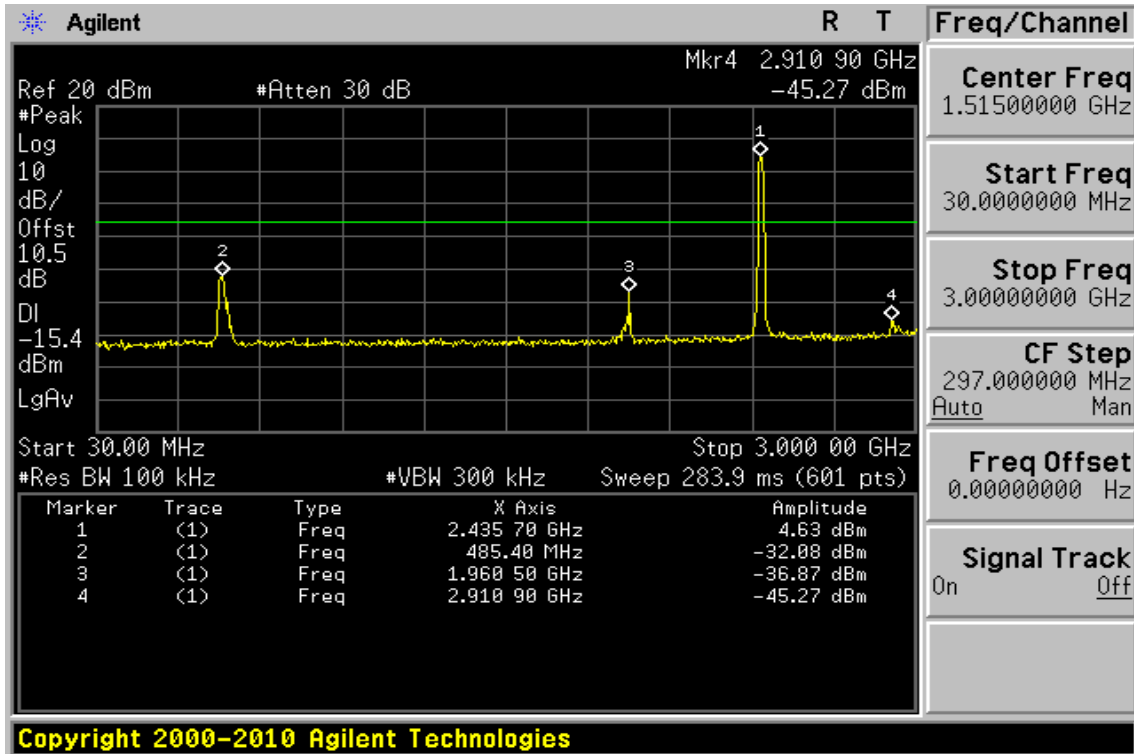


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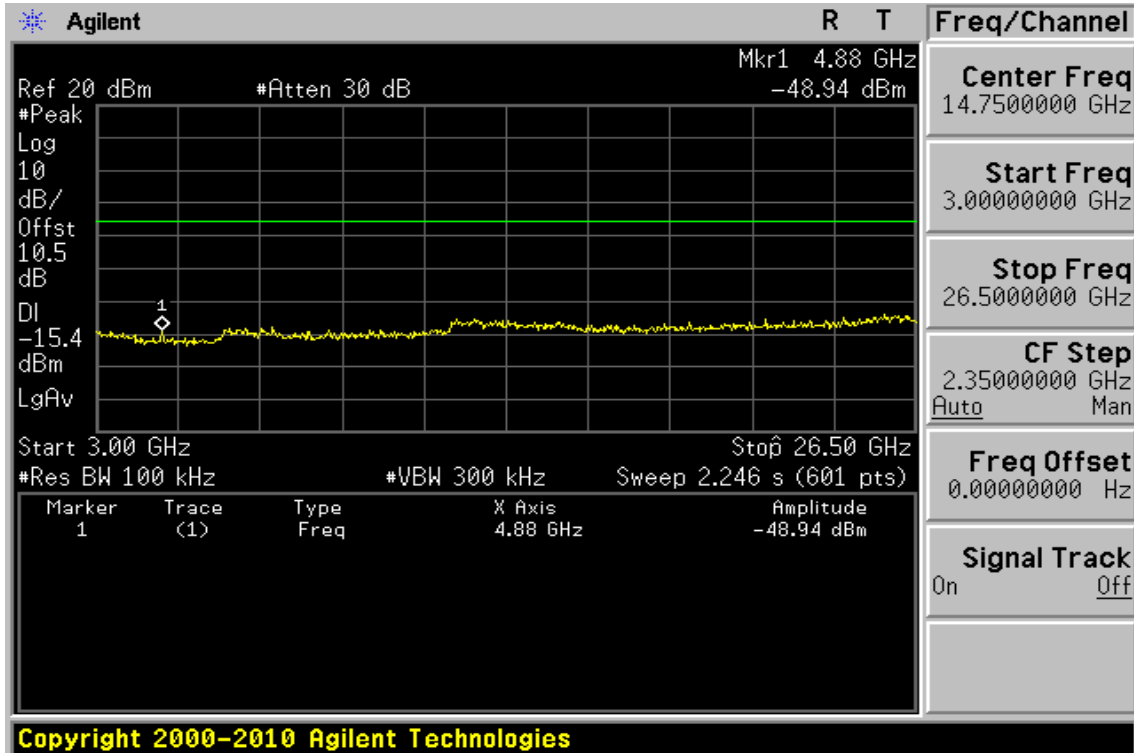
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Ch Mid 30MHz – 3GHz



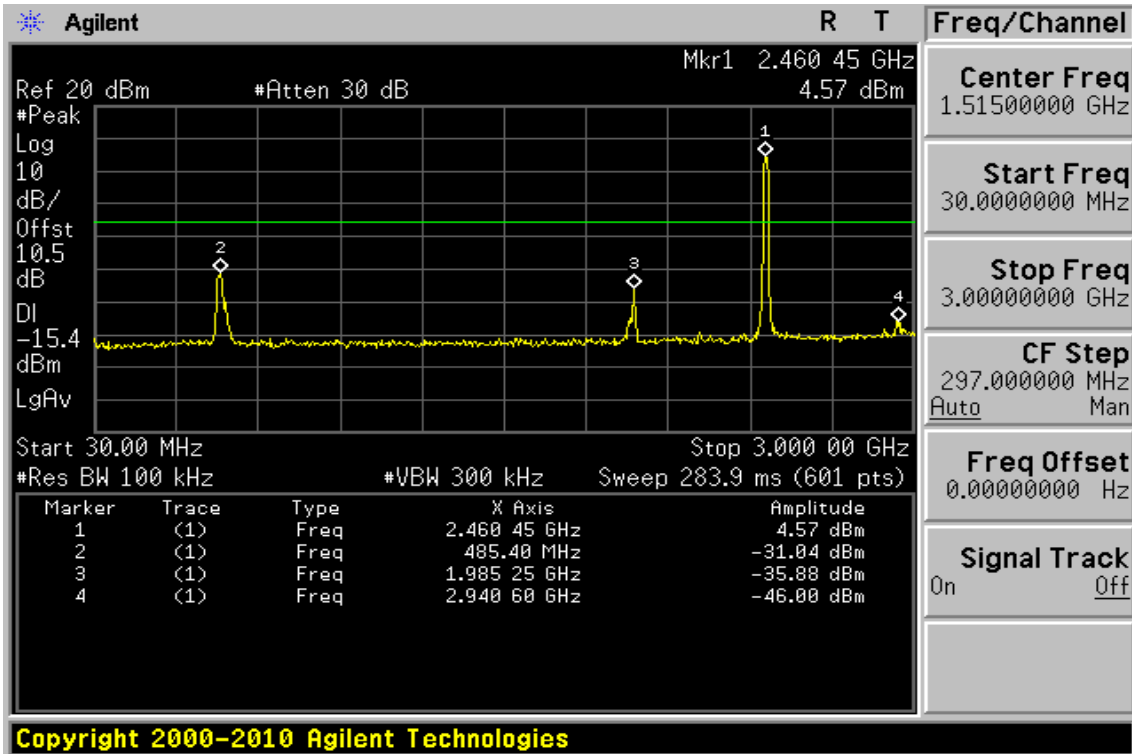
Ch Mid 3GHz – 26.5GHz



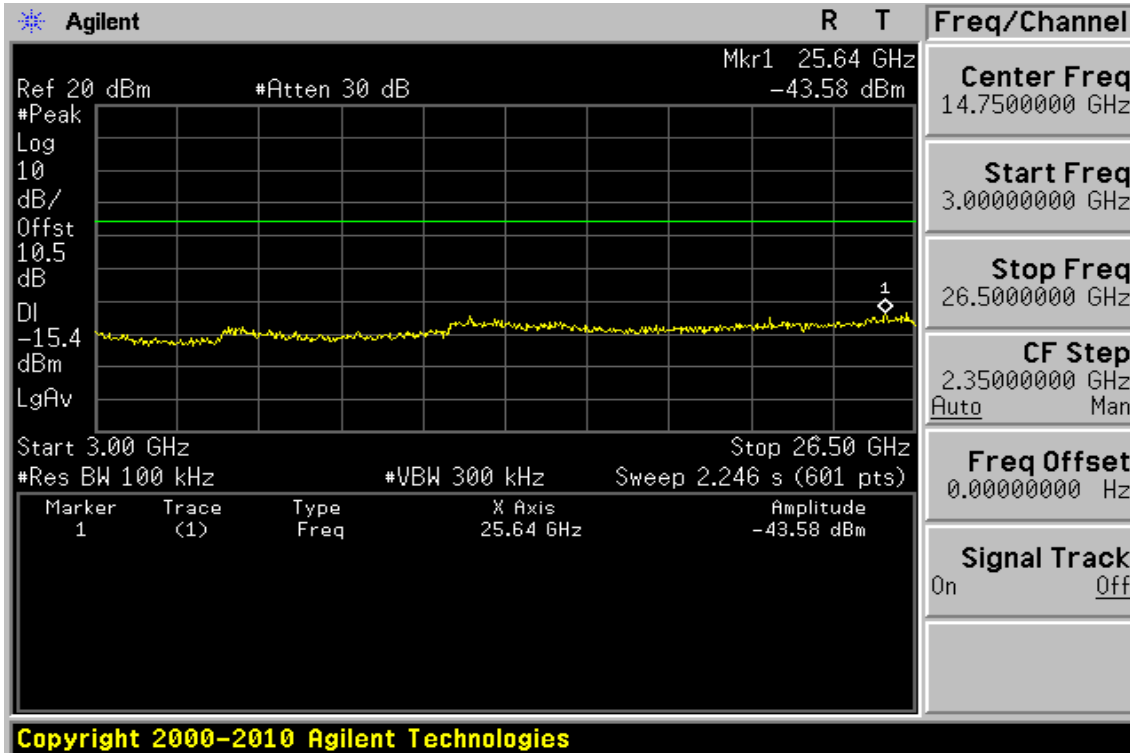
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Ch High 30MHz – 3GHz



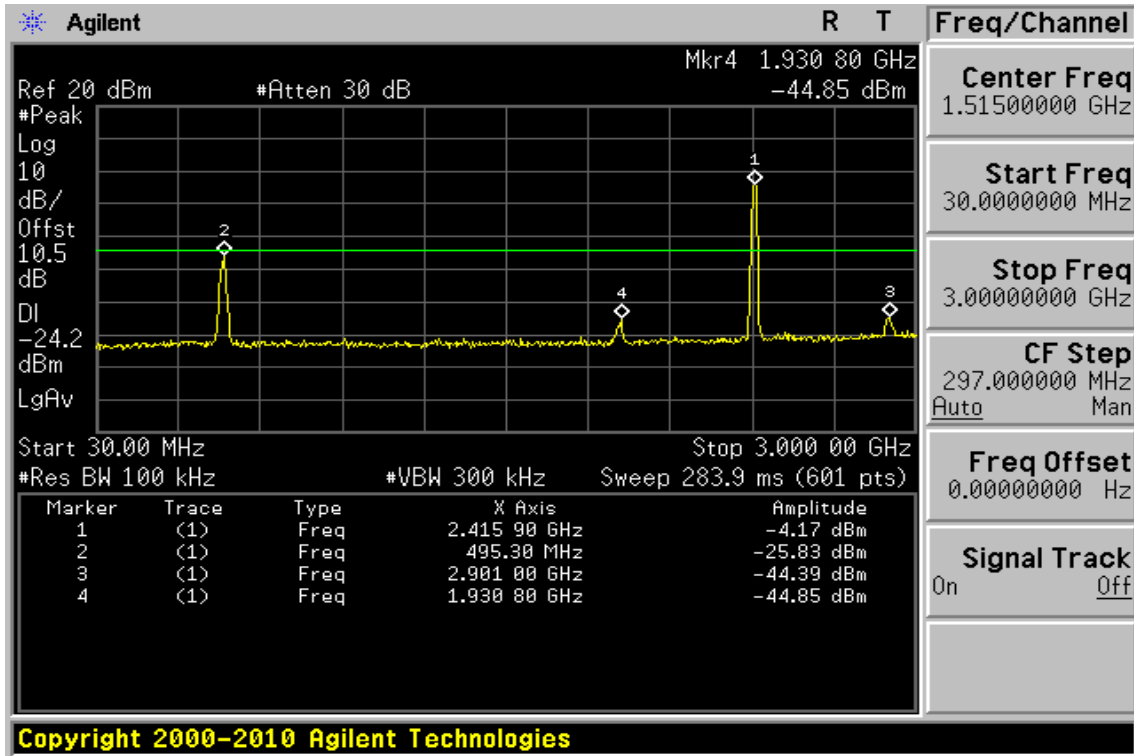
Ch High 3GHz – 26.5GHz



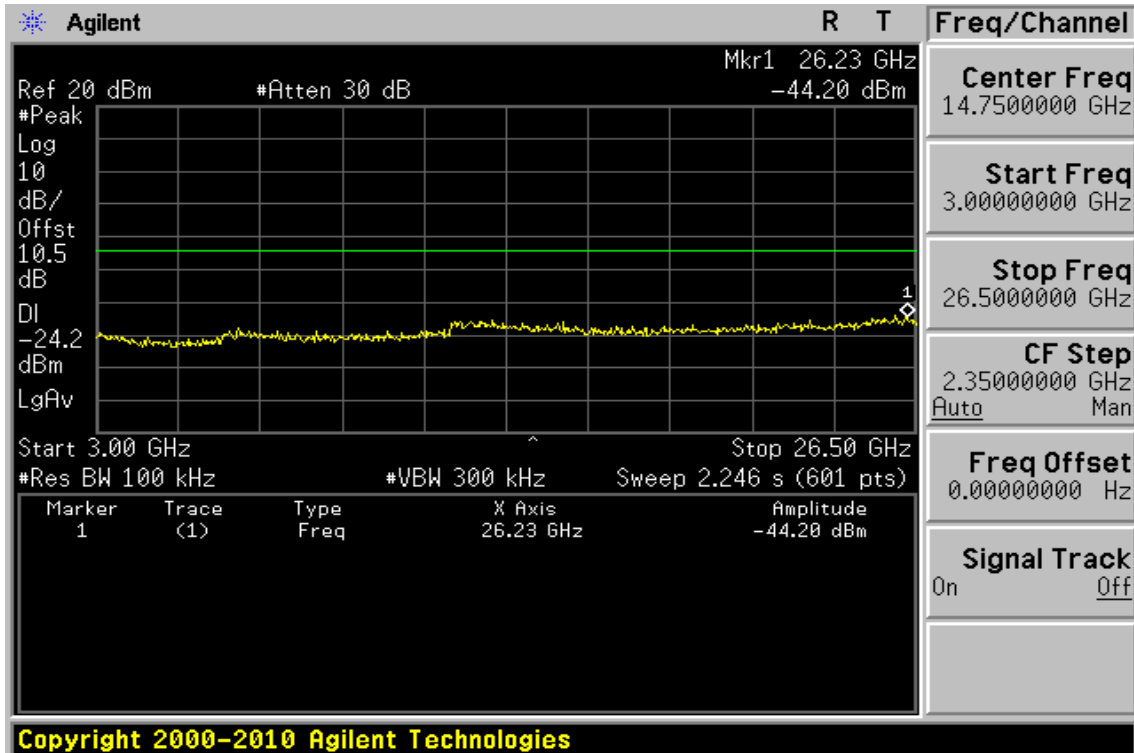
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Conducted Spurious Emission Measurement Result (802.11g) Ch Low 30MHz – 3GHz



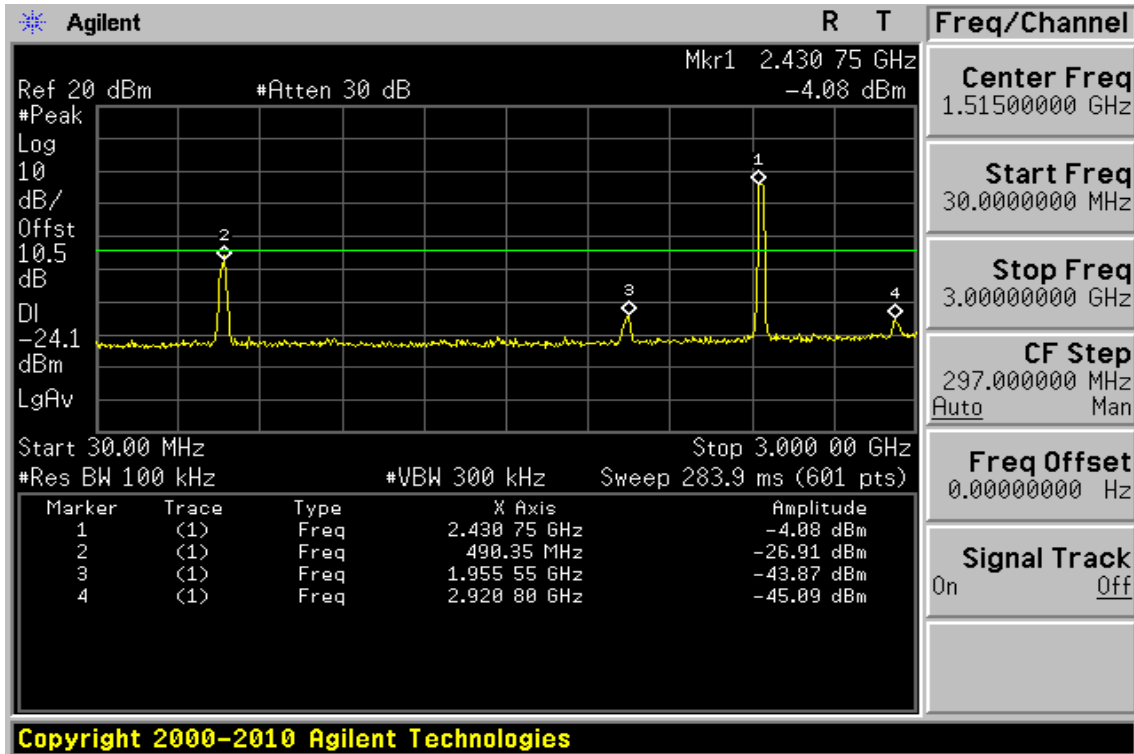
Ch Low 3GHz – 26.5GHz



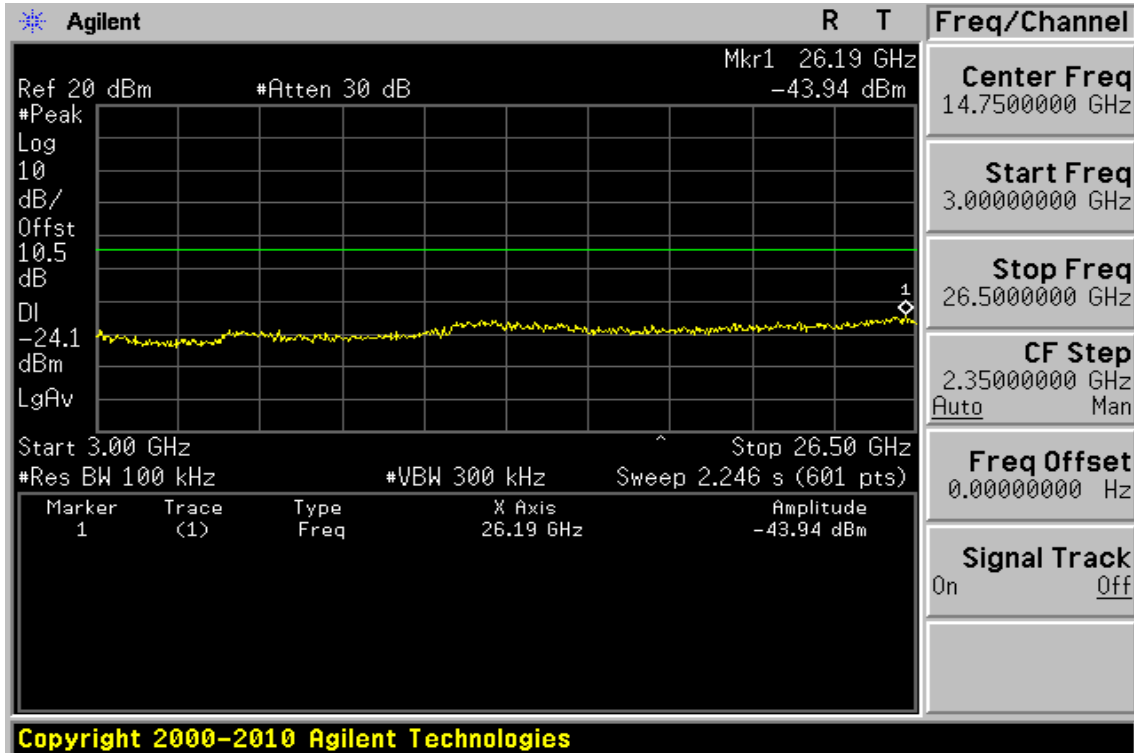
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Ch Mid 30MHz – 3GHz



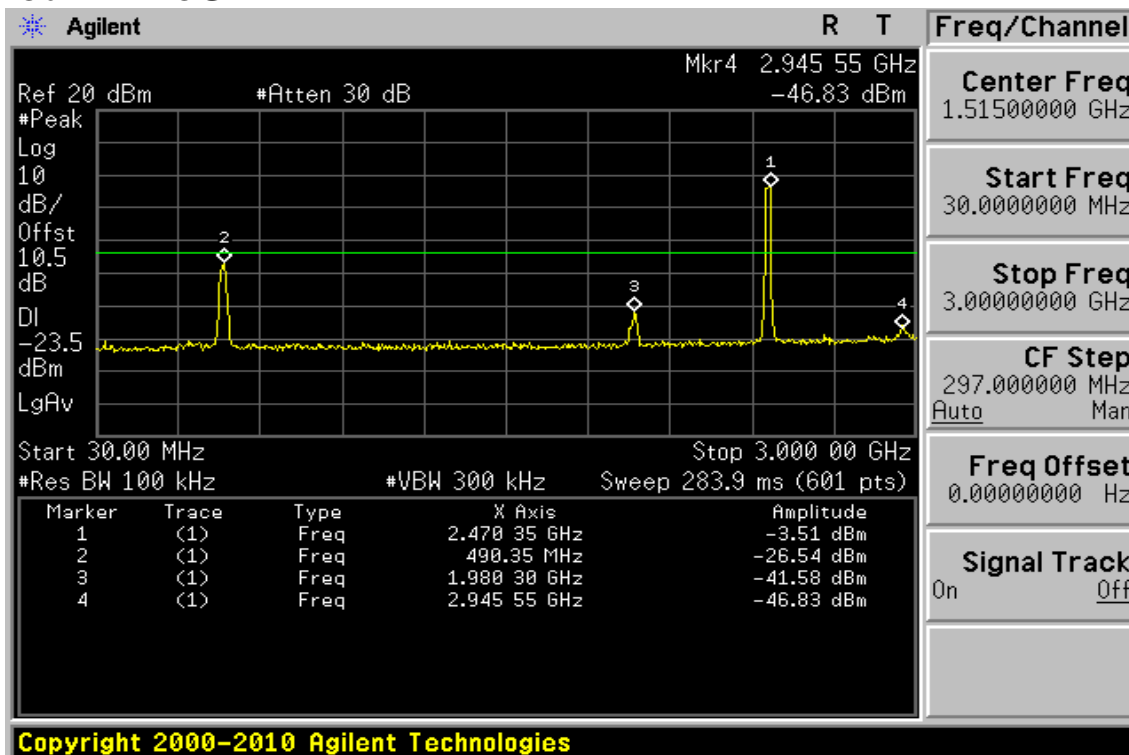
Ch Mid 3GHz – 26.5GHz



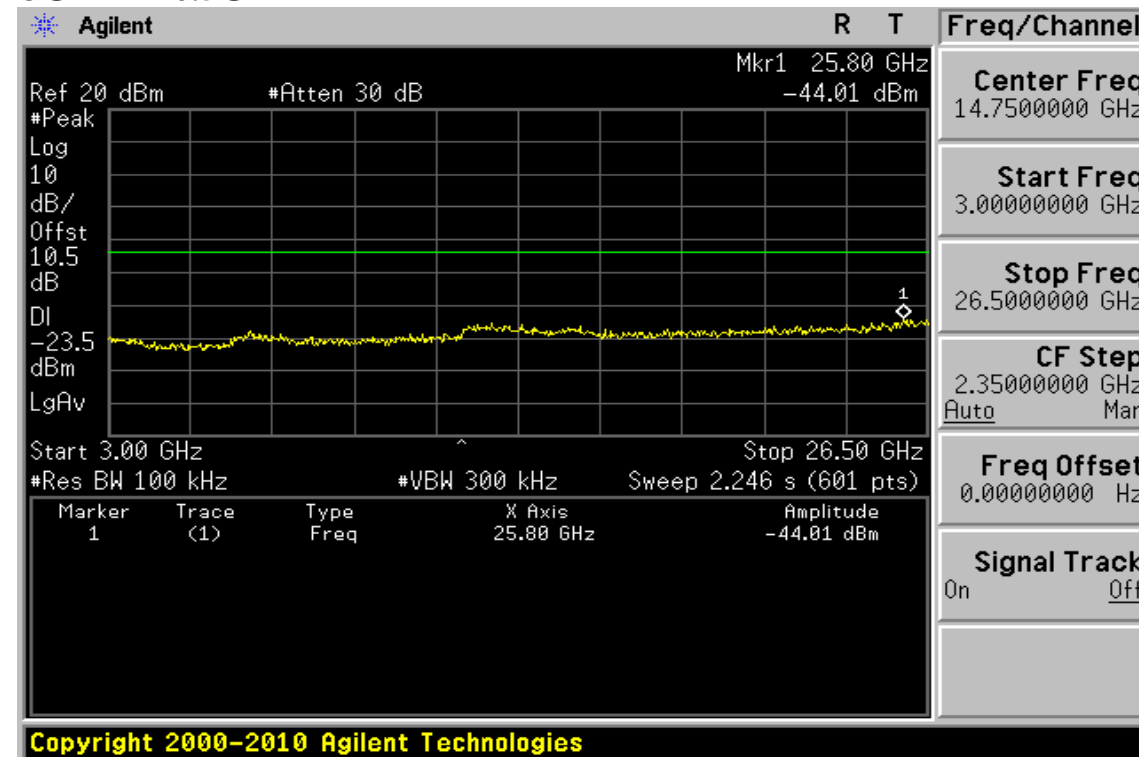
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Ch High 30MHz – 3GHz



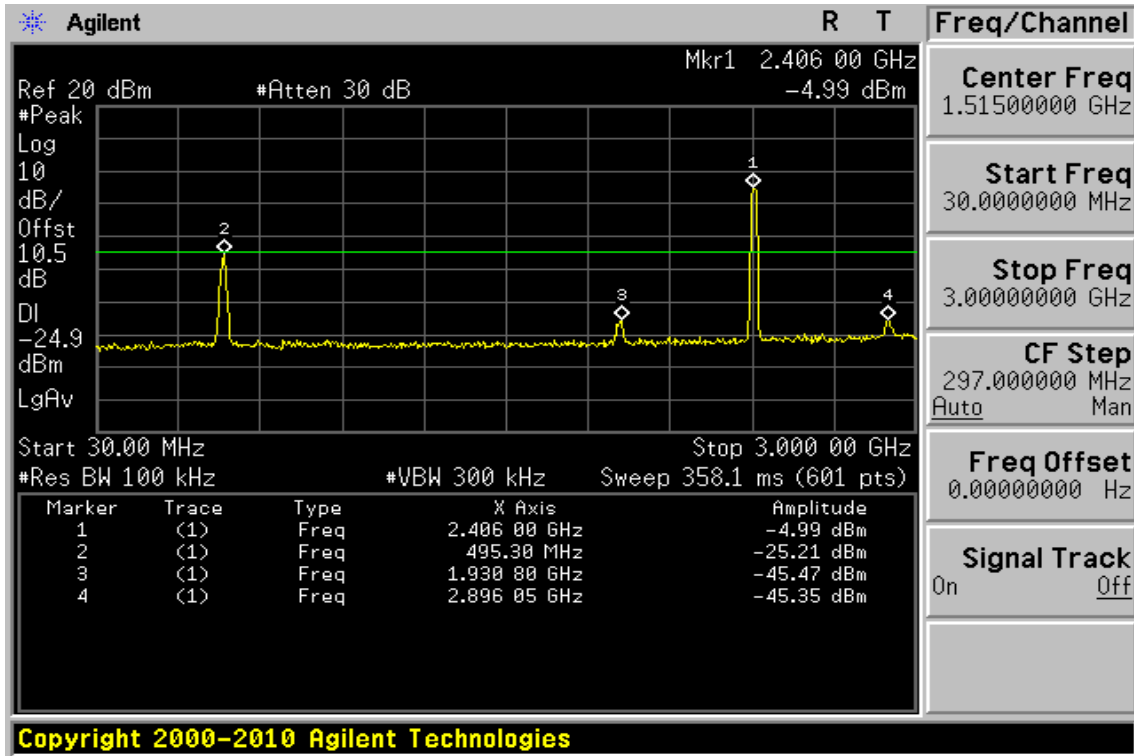
Ch High 3GHz – 26.5GHz



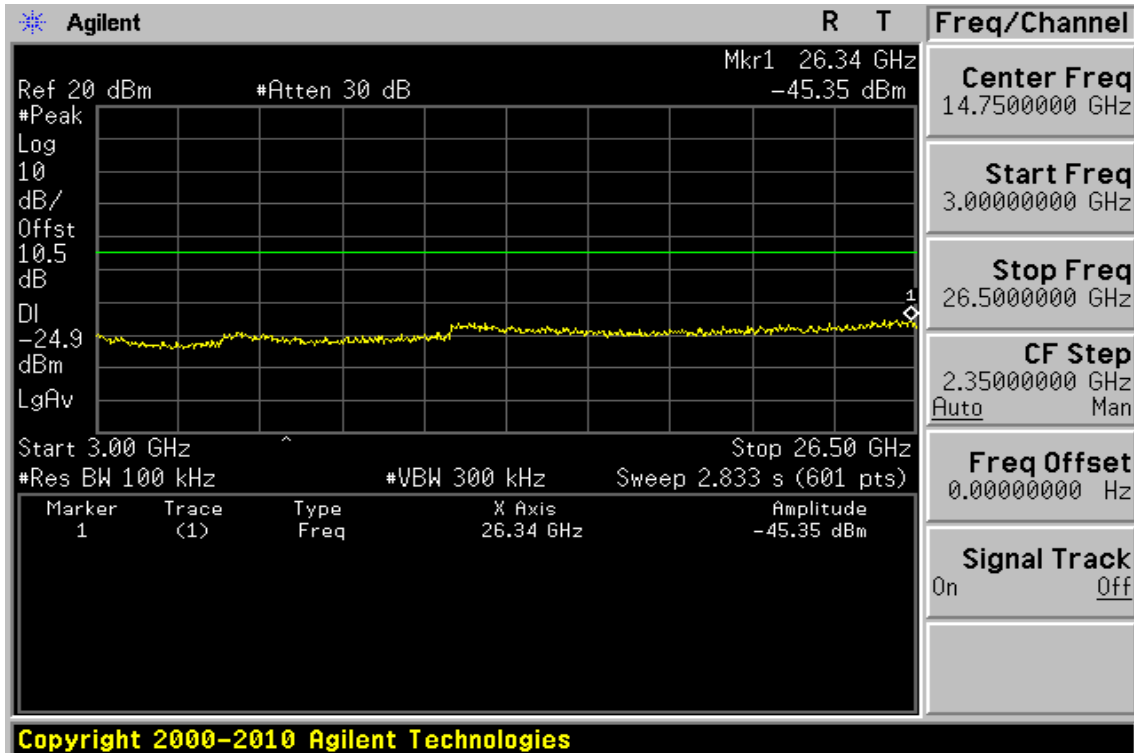
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Conducted Spurious Emission Measurement Result (802.11n_20MHz) Ch Low 30MHz – 3GHz



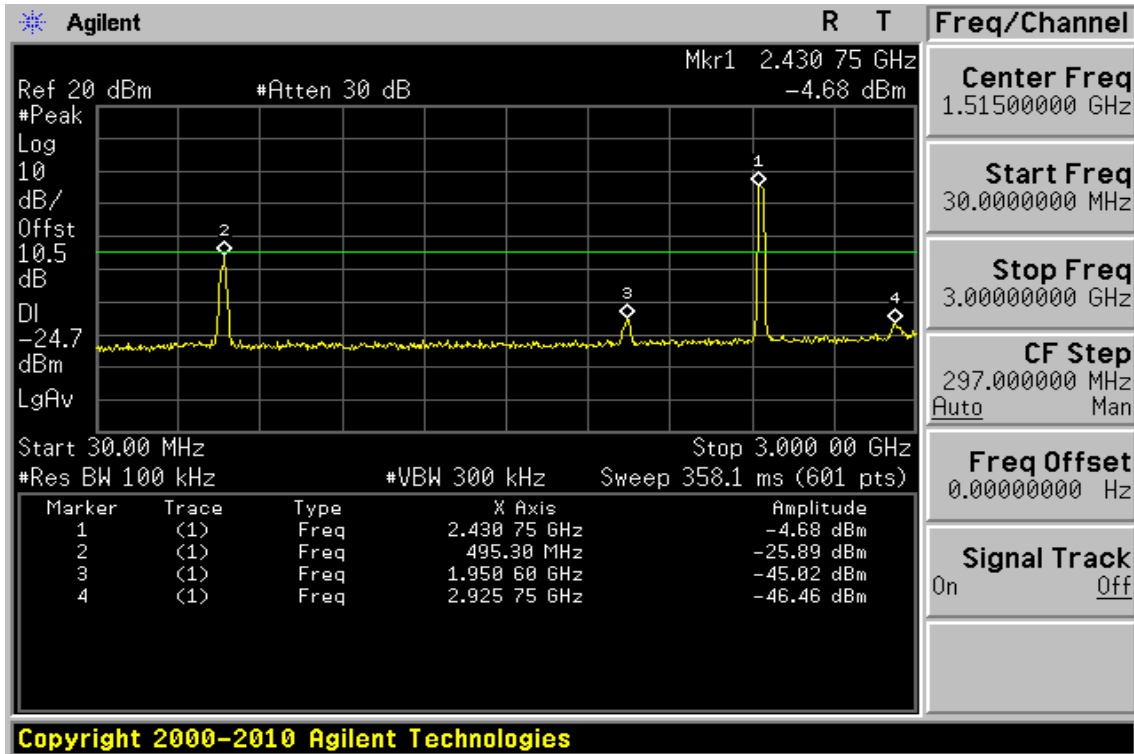
Ch Low 3GHz – 26.5GHz



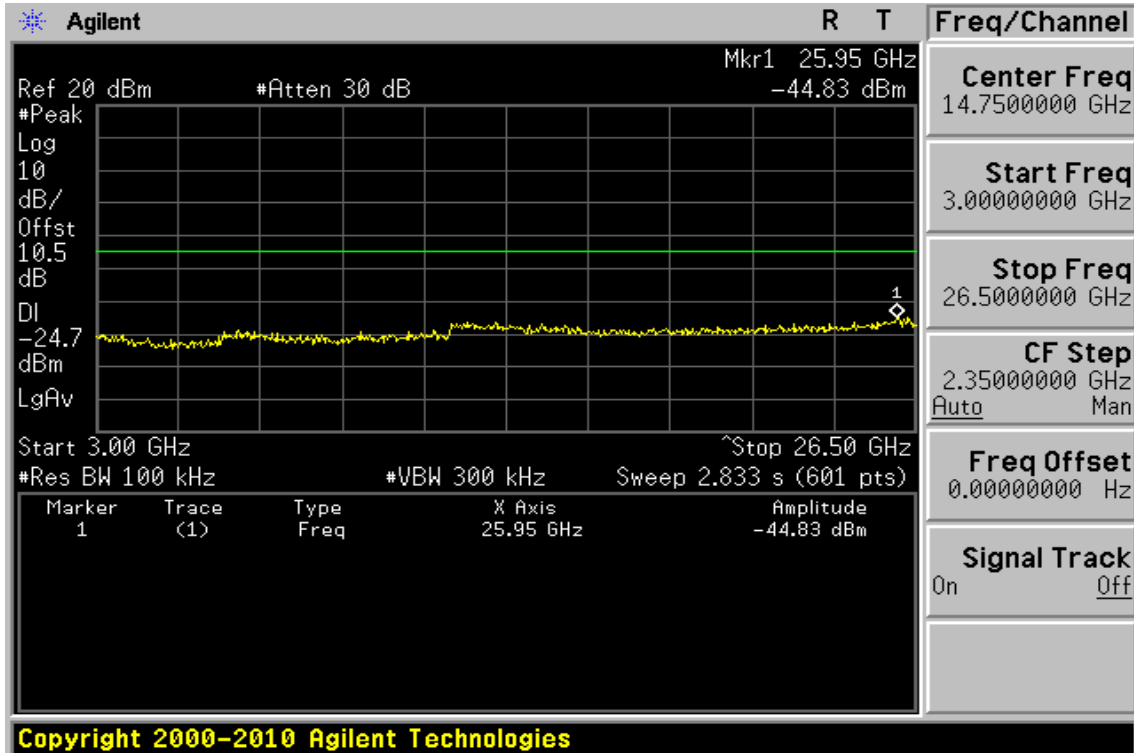
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Ch Mid 30MHz – 3GHz



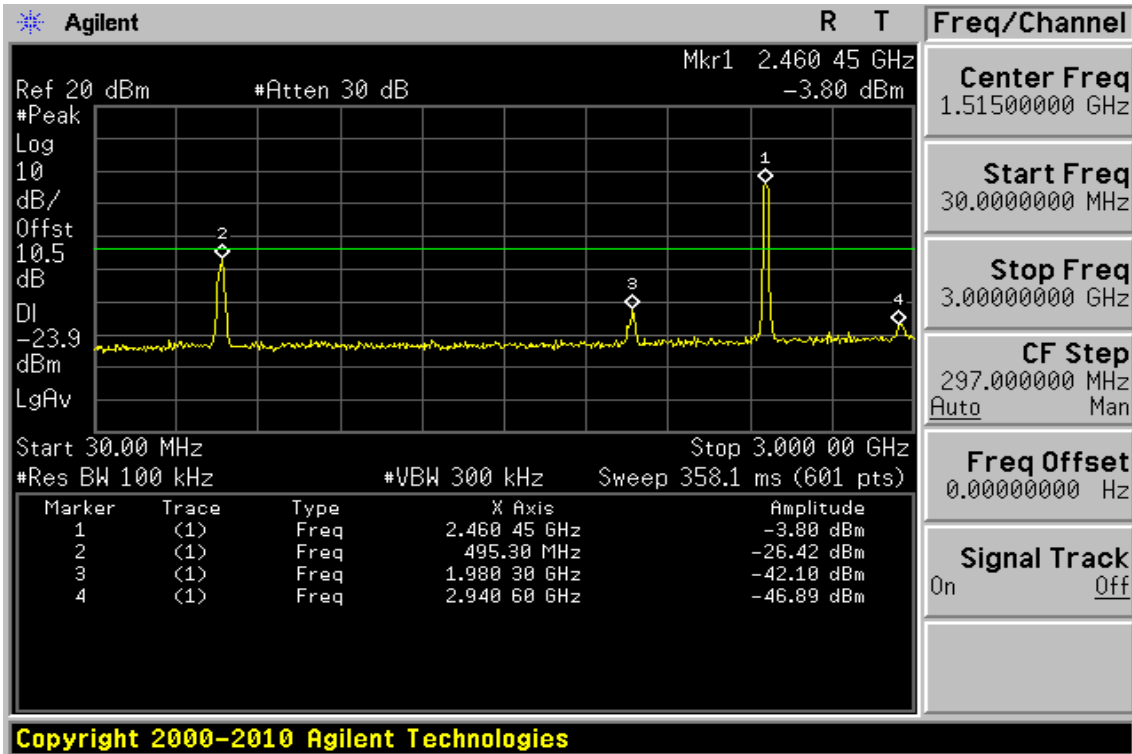
Ch Mid 3GHz – 26.5GHz



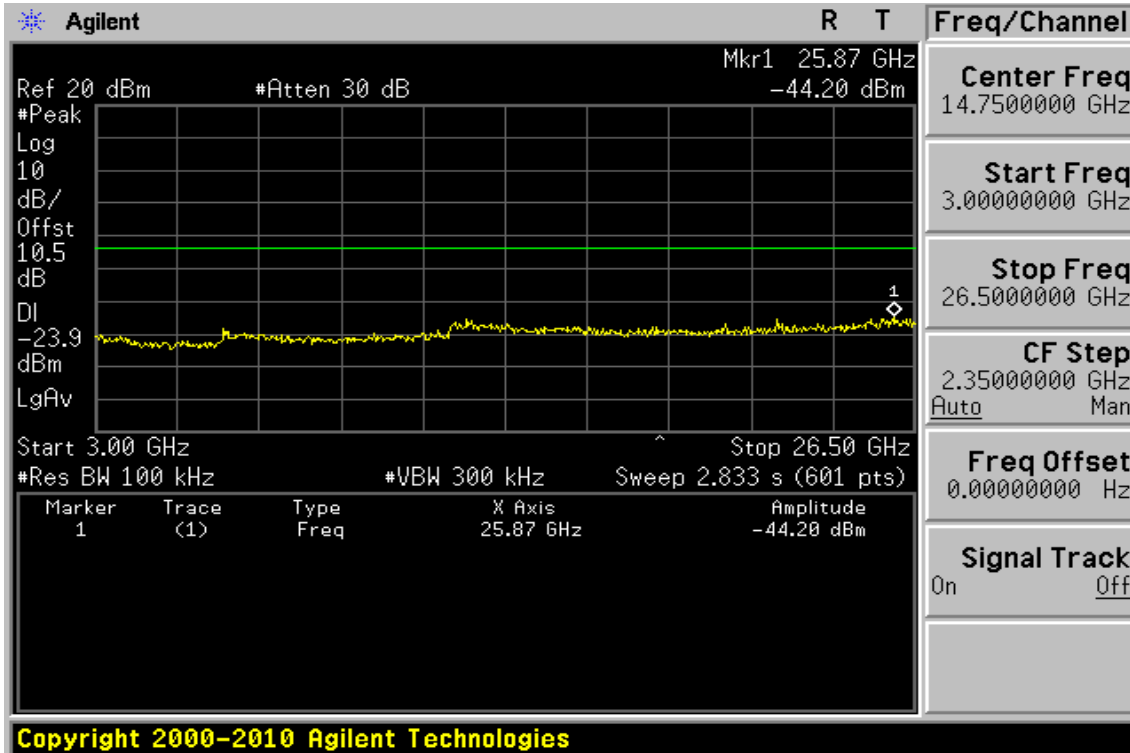
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Ch High 30MHz – 3GHz



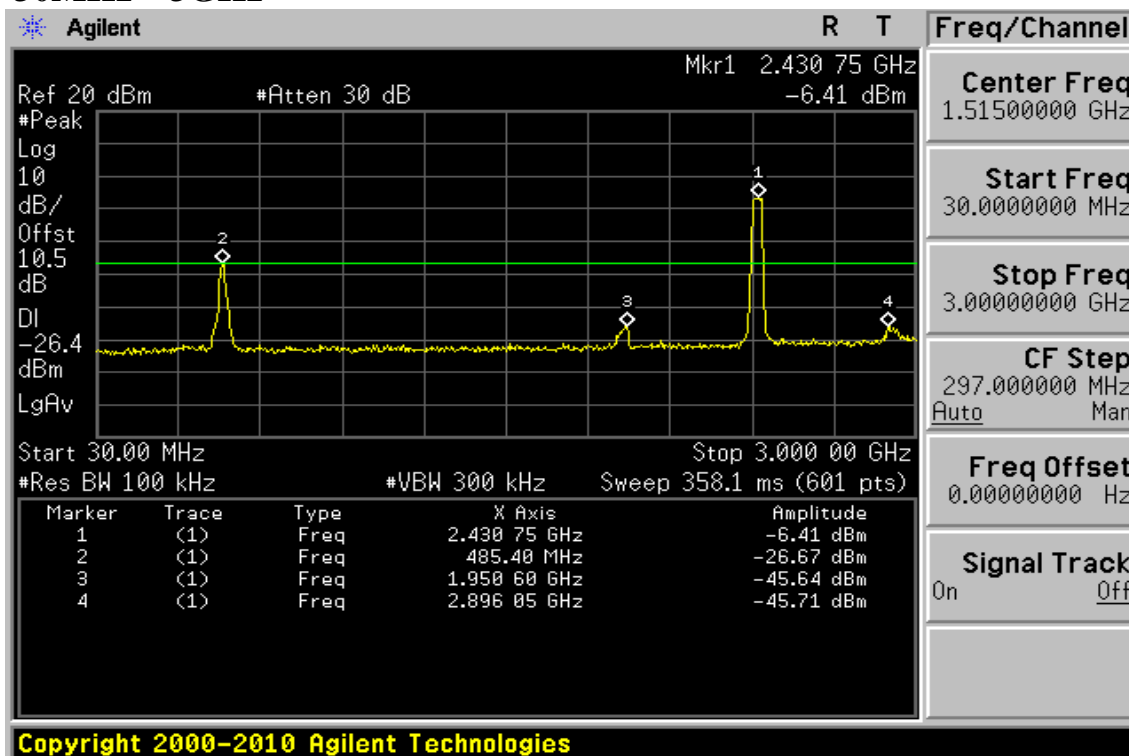
Ch High 3GHz – 26.5GHz



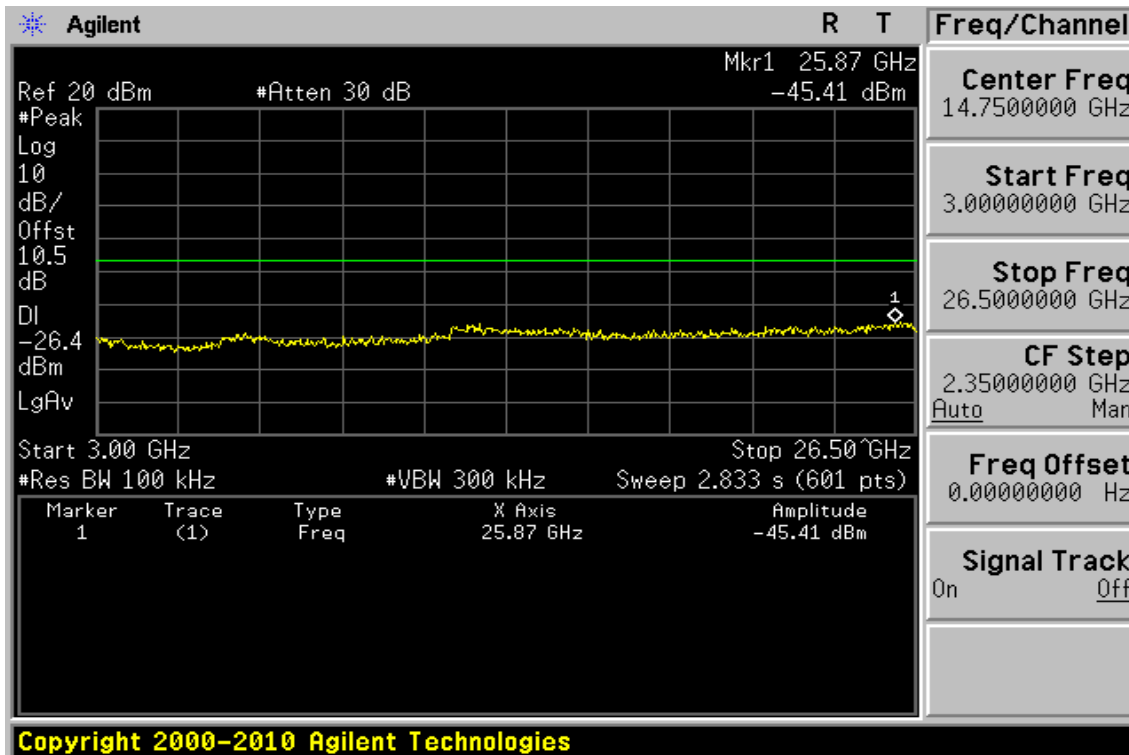
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Conducted Spurious Emission Measurement Result (802.11n_40MHz) Ch Low 30MHz – 3GHz



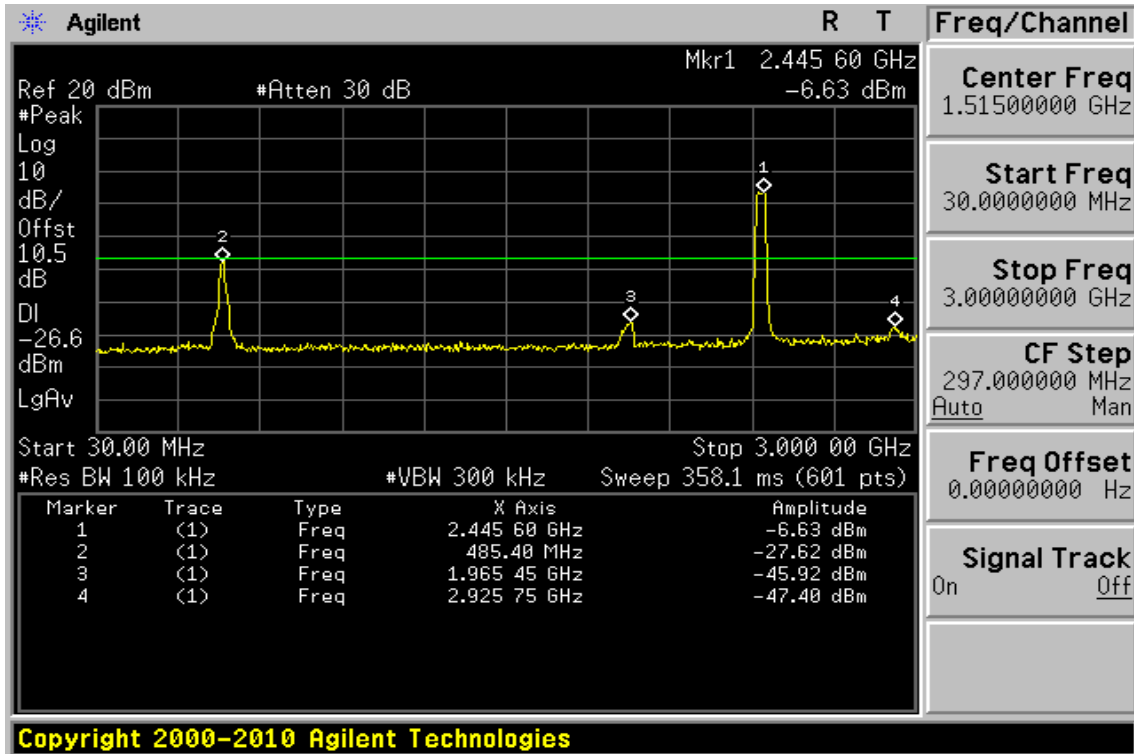
Ch Low 3GHz – 26.5GHz



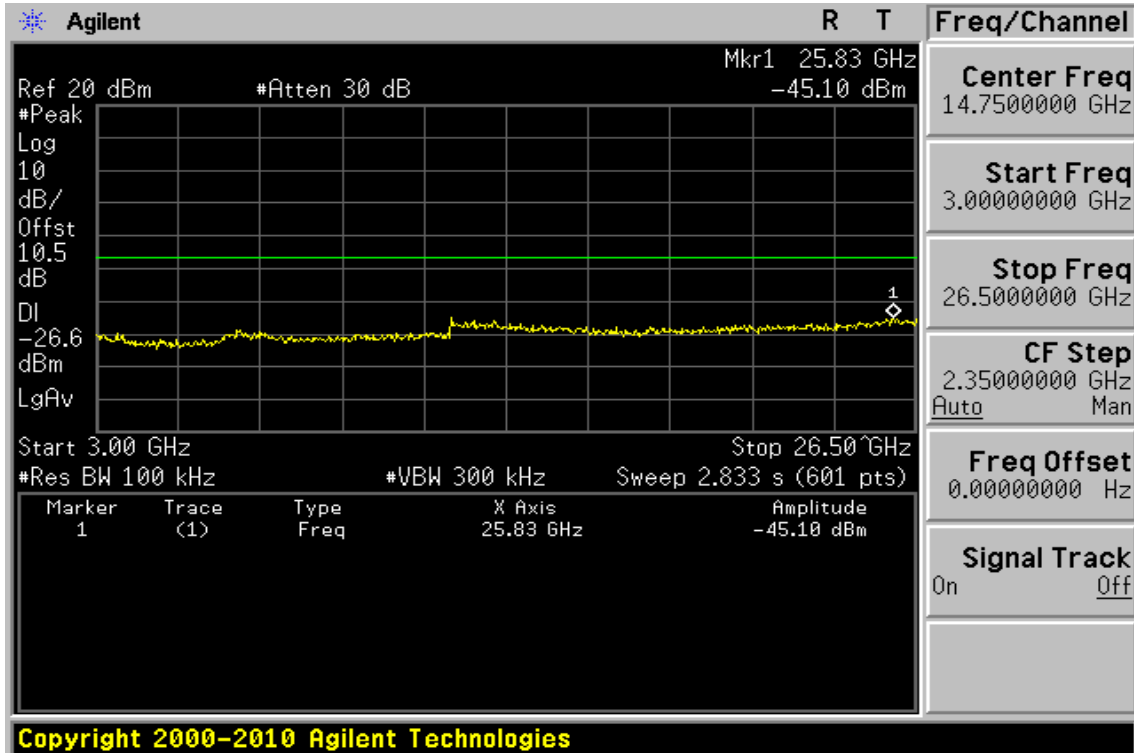
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Ch Mid 30MHz – 3GHz



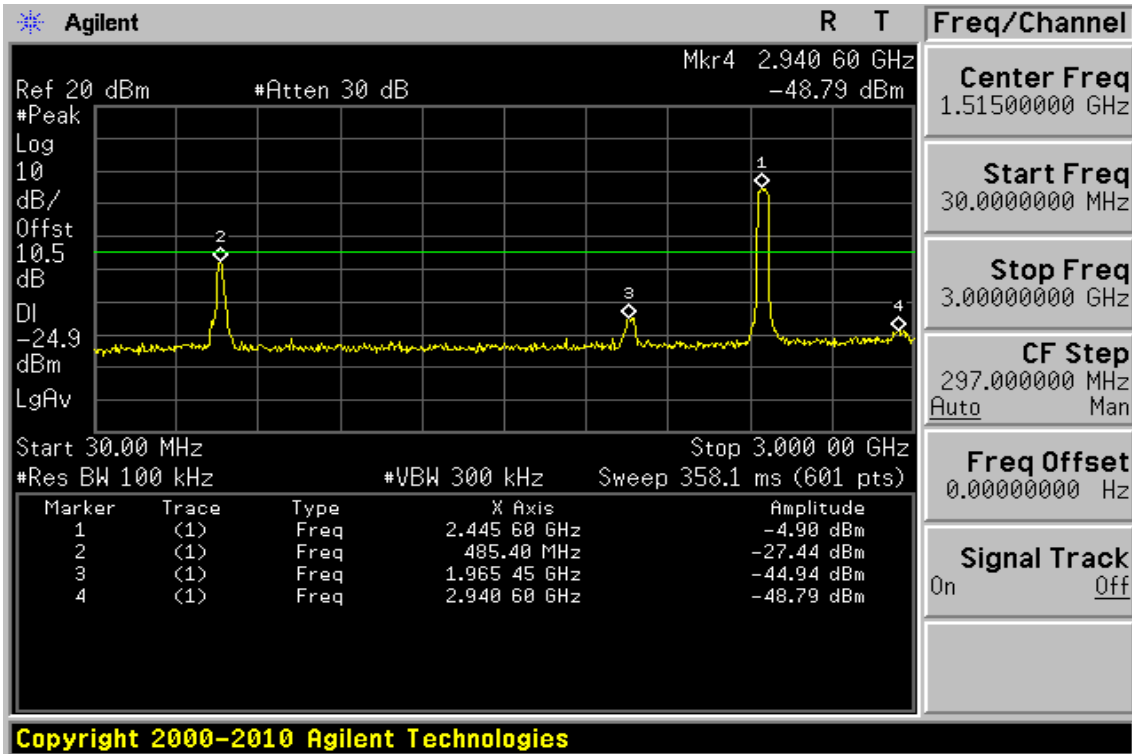
Ch Mid 3GHz – 26.5GHz



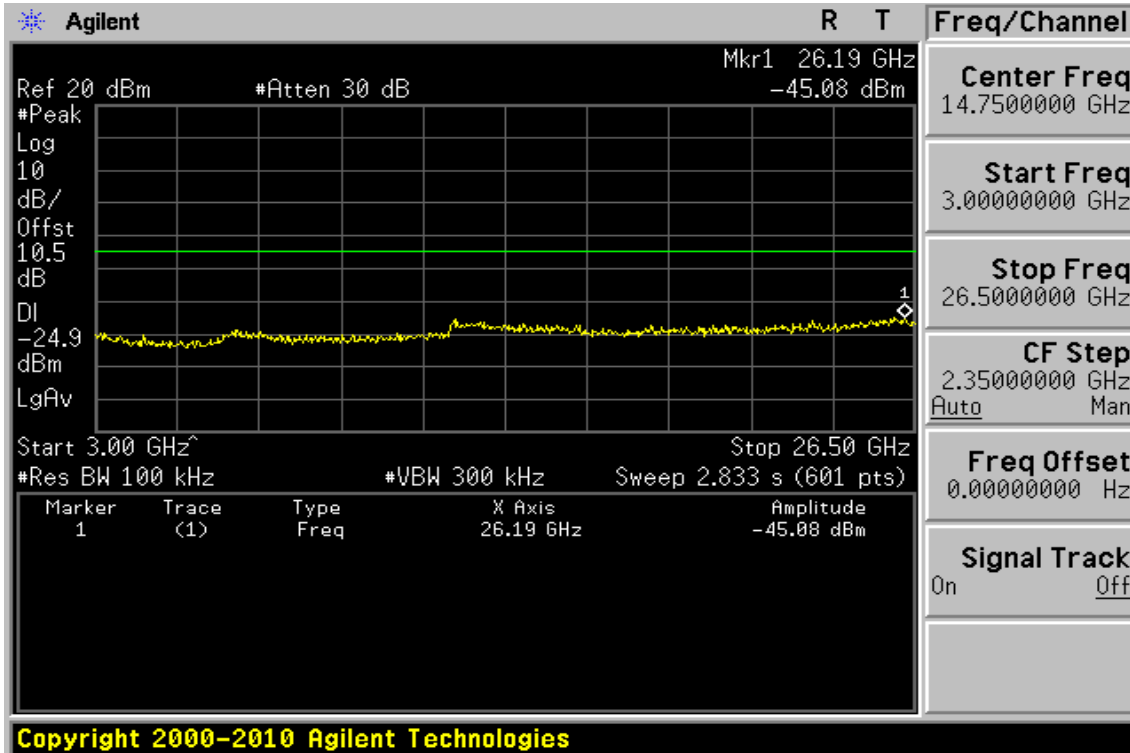
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



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Radiated Spurious Emission Measurement Result (802.11b)

Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	S	Peak	49.45	-17.00	32.45	40.00	-7.55
118.27	S	Peak	44.71	-14.76	29.95	43.50	-13.55
399.57	S	Peak	36.25	-11.06	25.19	46.00	-20.81
620.73	S	Peak	39.05	-7.11	31.94	46.00	-14.06
702.21	S	Peak	43.36	-5.71	37.65	46.00	-8.35
725.49	S	Peak	43.93	-5.35	38.58	46.00	-7.42
4824.00	H	Average	42.92	9.56	52.48	54.00	-1.52
4824.00	H	Peak	48.09	9.56	57.65	74.00	-16.35
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
39.70	S	Peak	44.23	-13.47	30.76	40.00	-9.24
74.62	S	Peak	45.65	-17.12	28.53	40.00	-11.47
250.19	S	Peak	43.45	-14.01	29.44	46.00	-16.56
399.57	S	Peak	42.73	-11.06	31.67	46.00	-14.33
729.37	S	Peak	37.45	-5.30	32.15	46.00	-13.85
755.56	S	Peak	37.63	-4.88	32.75	46.00	-13.25
4824.00	H	Peak	45.82	9.57	55.39	74.00	-18.61
4824.00	H	Average	41.57	9.57	51.14	54.00	-2.86
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
73.65	S	Peak	49.62	-17.00	32.62	40.00	-7.38
118.27	S	Peak	44.50	-14.76	29.74	43.50	-13.76
250.19	S	Peak	35.34	-14.01	21.33	46.00	-24.67
399.57	S	Peak	35.68	-11.06	24.62	46.00	-21.38
620.73	S	Peak	39.20	-7.11	32.09	46.00	-13.91
729.37	S	Peak	43.10	-5.30	37.80	46.00	-8.20
4874.00	H	Average	40.45	10.09	50.54	54.00	-3.46
4874.00	H	Peak	42.04	10.09	52.13	74.00	-21.87
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
39.70	S	Peak	43.83	-13.47	30.36	40.00	-9.64
74.62	S	Peak	45.49	-17.12	28.37	40.00	-11.63
287.05	S	Peak	42.03	-12.87	29.16	46.00	-16.84
399.57	S	Peak	42.30	-11.06	31.24	46.00	-14.76
729.37	S	Peak	38.32	-5.30	33.02	46.00	-12.98
891.36	S	Peak	34.84	-2.98	31.86	46.00	-14.14
4874.00	H	Peak	40.08	10.04	50.12	74.00	-23.88
4874.00	H	Average	37.07	10.04	47.11	54.00	-6.89
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
40.67	S	Peak	43.29	-13.48	29.81	40.00	-10.19
110.51	S	Peak	47.69	-15.69	32.00	43.50	-11.50
142.52	S	Peak	44.18	-12.89	31.29	43.50	-12.21
399.57	S	Peak	35.80	-11.06	24.74	46.00	-21.26
702.21	S	Peak	42.78	-5.71	37.07	46.00	-8.93
729.37	S	Peak	43.90	-5.30	38.60	46.00	-7.40
4924.00	H	Average	36.75	9.94	46.69	54.00	-7.31
4924.00	H	Peak	40.45	9.94	50.39	74.00	-23.61
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
108.57	S	Peak	42.92	-15.90	27.02	43.50	-16.48
150.28	S	Peak	39.96	-12.35	27.61	43.50	-15.89
399.57	S	Peak	43.43	-11.06	32.37	46.00	-13.63
620.73	S	Peak	35.97	-7.11	28.86	46.00	-17.14
729.37	S	Peak	37.94	-5.30	32.64	46.00	-13.36
837.04	S	Peak	34.16	-3.82	30.34	46.00	-15.66
4924.00	H	Average	35.91	9.83	45.74	54.00	-8.26
4924.00	H	Peak	36.92	9.83	46.75	74.00	-27.25
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11g)

Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
111.48	S	Peak	47.84	-15.56	32.28	43.50	-11.22
142.52	S	Peak	43.64	-12.89	30.75	43.50	-12.75
399.57	S	Peak	35.37	-11.06	24.31	46.00	-21.69
620.73	S	Peak	38.97	-7.11	31.86	46.00	-14.14
702.21	S	Peak	42.36	-5.71	36.65	46.00	-9.35
755.56	S	Peak	41.28	-4.88	36.40	46.00	-9.60
4824.00	H	Average	35.62	9.56	45.18	54.00	-8.82
4824.00	H	Peak	47.99	9.56	57.55	74.00	-16.45
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
109.54	S	Peak	42.93	-15.81	27.12	43.50	-16.38
148.34	S	Peak	40.20	-12.45	27.75	43.50	-15.75
400.54	S	Peak	41.09	-11.04	30.05	46.00	-15.95
620.73	S	Peak	36.64	-7.11	29.53	46.00	-16.47
729.37	S	Peak	36.69	-5.30	31.39	46.00	-14.61
800.18	S	Peak	33.38	-4.19	29.19	46.00	-16.81
4824.00	H	Average	34.83	9.57	44.40	54.00	-9.60
4824.00	H	Peak	45.22	9.57	54.79	74.00	-19.21
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
111.48	S	Peak	48.07	-15.56	32.51	43.50	-10.99
142.52	S	Peak	43.58	-12.89	30.69	43.50	-12.81
399.57	S	Peak	35.42	-11.06	24.36	46.00	-21.64
702.21	S	Peak	42.02	-5.71	36.31	46.00	-9.69
729.37	S	Peak	42.05	-5.30	36.75	46.00	-9.25
755.56	S	Peak	41.65	-4.88	36.77	46.00	-9.23
4874.00	H	Average	34.21	10.16	44.37	54.00	-9.63
4874.00	H	Peak	40.18	10.16	50.34	74.00	-23.66
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
109.54	S	Peak	42.75	-15.81	26.94	43.50	-16.56
150.28	S	Peak	40.14	-12.35	27.79	43.50	-15.71
399.57	S	Peak	44.22	-11.06	33.16	46.00	-12.84
725.49	S	Peak	38.95	-5.35	33.60	46.00	-12.40
755.56	S	Peak	40.11	-4.88	35.23	46.00	-10.77
896.21	S	Peak	39.57	-2.90	36.67	46.00	-9.33
4874.00	H	Average	33.04	10.11	43.15	54.00	-10.85
4874.00	H	Peak	39.49	10.11	49.60	74.00	-24.40
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
111.48	S	Peak	46.88	-15.56	31.32	43.50	-12.18
140.58	S	Peak	42.83	-13.04	29.79	43.50	-13.71
375.32	S	Peak	39.97	-11.34	28.63	46.00	-17.37
675.05	S	Peak	39.14	-6.11	33.03	46.00	-12.97
702.21	S	Peak	43.00	-5.71	37.29	46.00	-8.71
729.37	S	Peak	43.59	-5.30	38.29	46.00	-7.71
4924.00	H	Average	32.05	9.98	42.03	54.00	-11.97
4924.00	H	Peak	38.32	9.98	48.30	74.00	-25.70
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11g	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
108.57	S	Peak	43.20	-15.90	27.30	43.50	-16.20
145.43	S	Peak	40.14	-12.68	27.46	43.50	-16.04
399.57	S	Peak	44.09	-11.06	33.03	46.00	-12.97
702.21	S	Peak	36.49	-5.71	30.78	46.00	-15.22
729.37	S	Peak	36.61	-5.30	31.31	46.00	-14.69
756.53	S	Peak	36.49	-4.86	31.63	46.00	-14.37
4924.00	H	Average	28.66	9.83	38.49	54.00	-15.51
4924.00	H	Peak	35.53	9.83	45.36	74.00	-28.64
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11n_20MHz)

Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
111.48	S	Peak	48.13	-15.56	32.57	43.50	-10.93
143.49	S	Peak	42.63	-12.82	29.81	43.50	-13.69
399.57	S	Peak	35.48	-11.06	24.42	46.00	-21.58
702.21	S	Peak	41.85	-5.71	36.14	46.00	-9.86
729.37	S	Peak	41.23	-5.30	35.93	46.00	-10.07
752.65	S	Peak	42.60	-4.92	37.68	46.00	-8.32
4824.00	H	Average	32.92	9.56	42.48	54.00	-11.52
4824.00	H	Peak	45.32	9.56	54.88	74.00	-19.12
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
108.57	S	Peak	43.35	-15.90	27.45	43.50	-16.05
146.40	S	Peak	40.01	-12.60	27.41	43.50	-16.09
399.57	S	Peak	43.47	-11.06	32.41	46.00	-13.59
620.73	S	Peak	36.33	-7.11	29.22	46.00	-16.78
729.37	S	Peak	37.31	-5.30	32.01	46.00	-13.99
752.65	S	Peak	38.37	-4.92	33.45	46.00	-12.55
4824.00	H	Average	34.39	9.64	44.03	54.00	-9.97
4824.00	H	Peak	38.93	9.64	48.57	74.00	-25.43
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
110.51	S	Peak	48.20	-15.69	32.51	43.50	-10.99
141.55	S	Peak	43.61	-12.98	30.63	43.50	-12.87
399.57	S	Peak	35.55	-11.06	24.49	46.00	-21.51
617.82	S	Peak	38.85	-7.18	31.67	46.00	-14.33
702.21	S	Peak	43.24	-5.71	37.53	46.00	-8.47
729.37	S	Peak	42.98	-5.30	37.68	46.00	-8.32
4874.00	H	Average	31.51	10.09	41.60	54.00	-12.40
4874.00	H	Peak	38.38	10.09	48.47	74.00	-25.53
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
110.51	S	Peak	42.74	-15.69	27.05	43.50	-16.45
148.34	S	Peak	40.43	-12.45	27.98	43.50	-15.52
399.57	S	Peak	43.71	-11.06	32.65	46.00	-13.35
620.73	S	Peak	36.80	-7.11	29.69	46.00	-16.31
725.49	S	Peak	38.65	-5.35	33.30	46.00	-12.70
755.56	S	Peak	38.44	-4.88	33.56	46.00	-12.44
4874.00	H	Average	29.05	10.11	39.16	54.00	-14.84
4874.00	H	Peak	37.09	10.11	47.20	74.00	-26.80
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
110.51	S	Peak	47.53	-15.69	31.84	43.50	-11.66
140.58	S	Peak	42.93	-13.04	29.89	43.50	-13.61
399.57	S	Peak	35.97	-11.06	24.91	46.00	-21.09
702.21	S	Peak	41.81	-5.71	36.10	46.00	-9.90
729.37	S	Peak	44.51	-5.30	39.21	46.00	-6.79
942.77	S	Peak	36.41	-2.16	34.25	46.00	-11.75
4924.00	H	Average	29.04	10.01	39.05	54.00	-14.95
4924.00	H	Peak	37.29	10.01	47.30	74.00	-26.70
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Operation Band	:802.11n 20M	Test Date	:2012-09-03
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
108.57	S	Peak	43.54	-15.90	27.64	43.50	-15.86
149.31	S	Peak	40.48	-12.38	28.10	43.50	-15.40
399.57	S	Peak	43.40	-11.06	32.34	46.00	-13.66
725.49	S	Peak	37.48	-5.35	32.13	46.00	-13.87
755.56	S	Peak	38.79	-4.88	33.91	46.00	-12.09
891.36	S	Peak	35.32	-2.98	32.34	46.00	-13.66
4924.00	H	Average	26.11	9.83	35.94	54.00	-18.06
4924.00	H	Peak	34.72	9.83	44.55	74.00	-29.45
7386.00	H	---					
9848.00	H	---					
12310.00	H	---					
14772.00	H	---					
17234.00	H	---					
19696.00	H	---					
22158.00	H	---					
24620.00	H	---					

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Radiated Spurious Emission Measurement Result (802.11n_40MHz)

Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	S	Peak	45.83	-13.82	32.01	40.00	-7.99
127.97	S	Peak	44.55	-14.04	30.51	43.50	-12.99
174.53	S	Peak	36.29	-13.76	22.53	43.50	-20.97
399.57	S	Peak	37.55	-11.06	26.49	46.00	-19.51
800.18	S	Peak	31.38	-4.19	27.19	46.00	-18.81
874.87	S	Peak	29.19	-3.30	25.89	46.00	-20.11
4844.00	H	Average	30.22	9.71	39.93	54.00	-14.07
4844.00	H	Peak	40.00	9.71	49.71	74.00	-24.29
7266.00	H	---					
9688.00	H	---					
12110.00	H	---					
14532.00	H	---					
16954.00	H	---					
19376.00	H	---					
21798.00	H	---					
24220.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
128.94	S	Peak	39.62	-13.97	25.65	43.50	-17.85
250.19	S	Peak	43.42	-14.01	29.41	46.00	-16.59
350.10	S	Peak	40.93	-11.69	29.24	46.00	-16.76
399.57	S	Peak	39.81	-11.06	28.75	46.00	-17.25
749.74	S	Peak	34.84	-4.96	29.88	46.00	-16.12
874.87	S	Peak	33.23	-3.30	29.93	46.00	-16.07
4844.00	H	Average	27.03	9.85	36.88	54.00	-17.12
4844.00	H	Peak	36.49	9.85	46.34	74.00	-27.66
7266.00	H	---					
9688.00	H	---					
12110.00	H	---					
14532.00	H	---					
16954.00	H	---					
19376.00	H	---					
21798.00	H	---					
24220.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
45.52	S	Peak	45.51	-13.82	31.69	40.00	-8.31
127.97	S	Peak	44.17	-14.04	30.13	43.50	-13.37
399.57	S	Peak	37.22	-11.06	26.16	46.00	-19.84
603.27	S	Peak	31.38	-7.49	23.89	46.00	-22.11
749.74	S	Peak	32.27	-4.96	27.31	46.00	-18.69
874.87	S	Peak	30.36	-3.30	27.06	46.00	-18.94
4874.00	H	Average	26.94	10.16	37.10	54.00	-16.90
4874.00	H	Peak	36.23	10.16	46.39	74.00	-27.61
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
250.19	S	Peak	43.39	-14.01	29.38	46.00	-16.62
350.10	S	Peak	45.92	-11.69	34.23	46.00	-11.77
399.57	S	Peak	39.88	-11.06	28.82	46.00	-17.18
619.76	S	Peak	33.92	-7.13	26.79	46.00	-19.21
749.74	S	Peak	35.81	-4.96	30.85	46.00	-15.15
874.87	S	Peak	32.91	-3.30	29.61	46.00	-16.39
4874.00	H	Average	26.55	10.04	36.59	54.00	-17.41
4874.00	H	Peak	35.36	10.04	45.40	74.00	-28.60
7311.00	H	---					
9748.00	H	---					
12185.00	H	---					
14622.00	H	---					
17059.00	H	---					
19496.00	H	---					
21933.00	H	---					
24370.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
45.52	S	Peak	45.70	-13.82	31.88	40.00	-8.12
127.00	S	Peak	45.16	-14.11	31.05	43.50	-12.45
174.53	S	Peak	36.03	-13.76	22.27	43.50	-21.23
399.57	S	Peak	37.78	-11.06	26.72	46.00	-19.28
600.36	S	Peak	30.99	-7.55	23.44	46.00	-22.56
749.74	S	Peak	34.87	-4.96	29.91	46.00	-16.09
4904.00	H	Average	26.88	9.98	36.86	54.00	-17.14
4904.00	H	Peak	36.21	9.98	46.19	74.00	-27.81
7356.00	H	---					
9808.00	H	---					
12260.00	H	---					
14712.00	H	---					
17164.00	H	---					
19616.00	H	---					
22068.00	H	---					
24520.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-09-03
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1 deg_C / 67 RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:E2 PLAN	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/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 PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
250.19	S	Peak	43.12	-14.01	29.11	46.00	-16.89
350.10	S	Peak	40.74	-11.69	29.05	46.00	-16.95
399.57	S	Peak	39.63	-11.06	28.57	46.00	-17.43
597.45	S	Peak	34.31	-7.61	26.70	46.00	-19.30
749.74	S	Peak	35.31	-4.96	30.35	46.00	-15.65
874.87	S	Peak	33.18	-3.30	29.88	46.00	-16.12
4904.00	H	Average	26.62	9.96	36.58	54.00	-17.42
4904.00	H	Peak	35.07	9.96	45.03	74.00	-28.97
7356.00	H	---					
9808.00	H	---					
12260.00	H	---					
14712.00	H	---					
17164.00	H	---					
19616.00	H	---					
22068.00	H	---					
24520.00	H	---					

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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.

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 = 30~45MHz, 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 Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)
2412	4.52	4.52	8
2437	5.15	5.15	8
2462	4.94	4.94	8

802.11g

Frequency MHz	RF Power Density Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)
2412	-3.77	-3.77	8
2437	-4.13	-4.13	8
2462	-3.38	-3.38	8

802.11n_20MHz

Frequency MHz	RF Power Density Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)
2412	-3.87	-3.87	8
2437	-3.44	-3.44	8
2462	-3.65	-3.65	8

802.11n_40MHz

Frequency MHz	RF Power Density Reading (dBm)	RF Power Density Level (dBm)	Maximum Limit (dBm)
2422	-6.22	-6.22	8
2437	-5.93	-5.93	8
2452	-5.94	-5.94	8

**Note: Offset: 10.5dB*

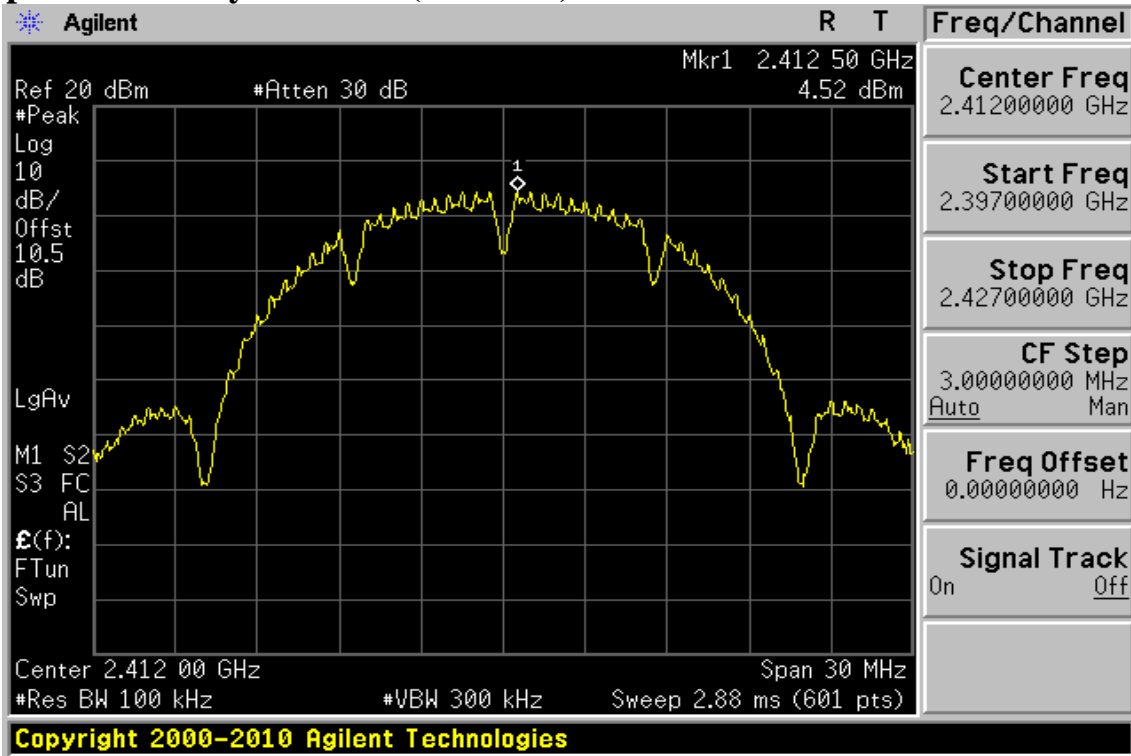
Note: Refer to next page for plots.

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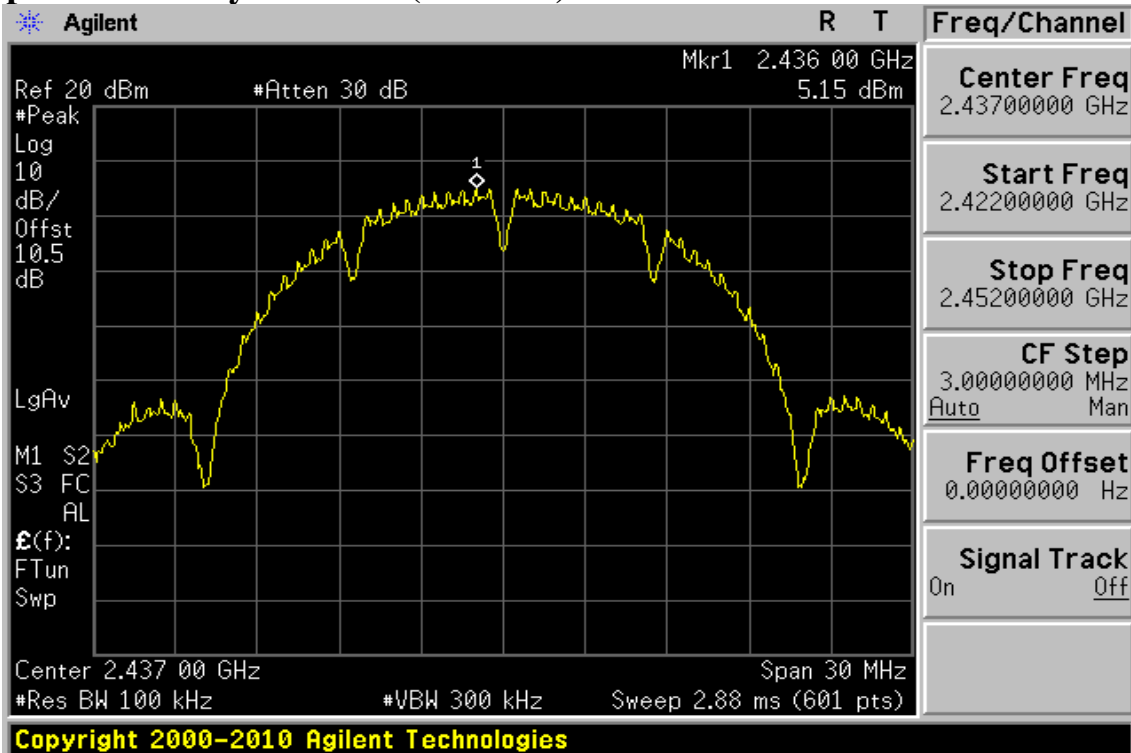
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802.11b

Power Spectral Density Test Plot (CH-Low)



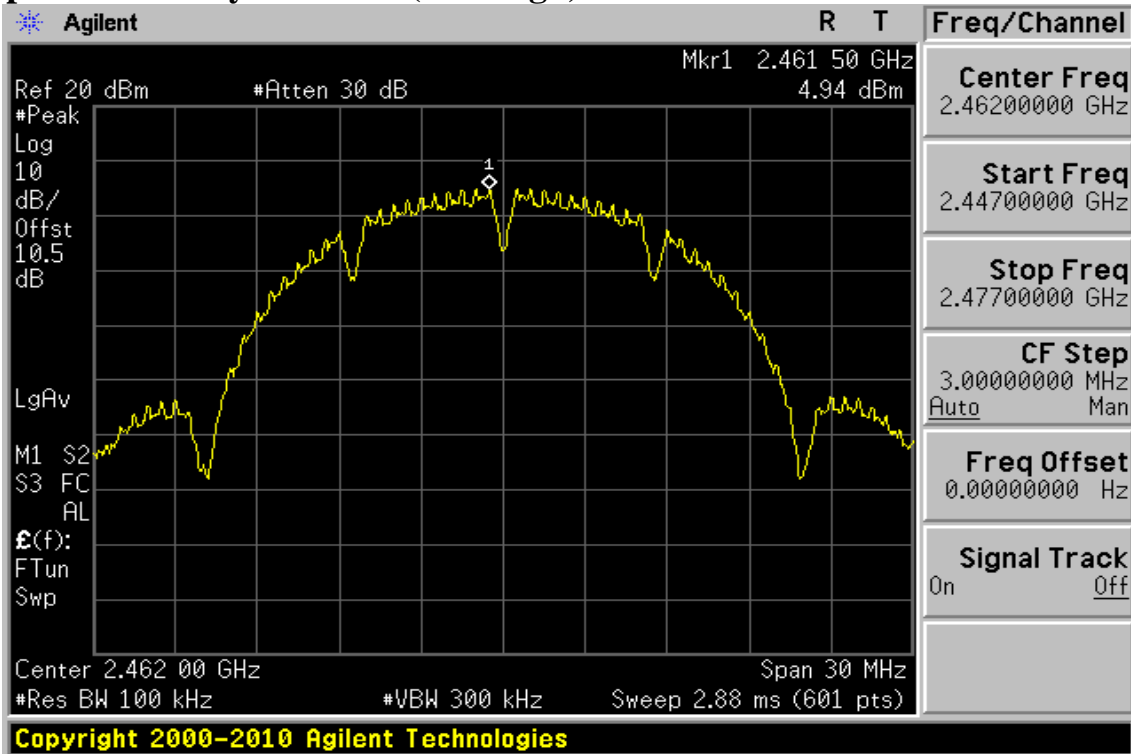
Power Spectral Density Test Plot (CH-Mid)



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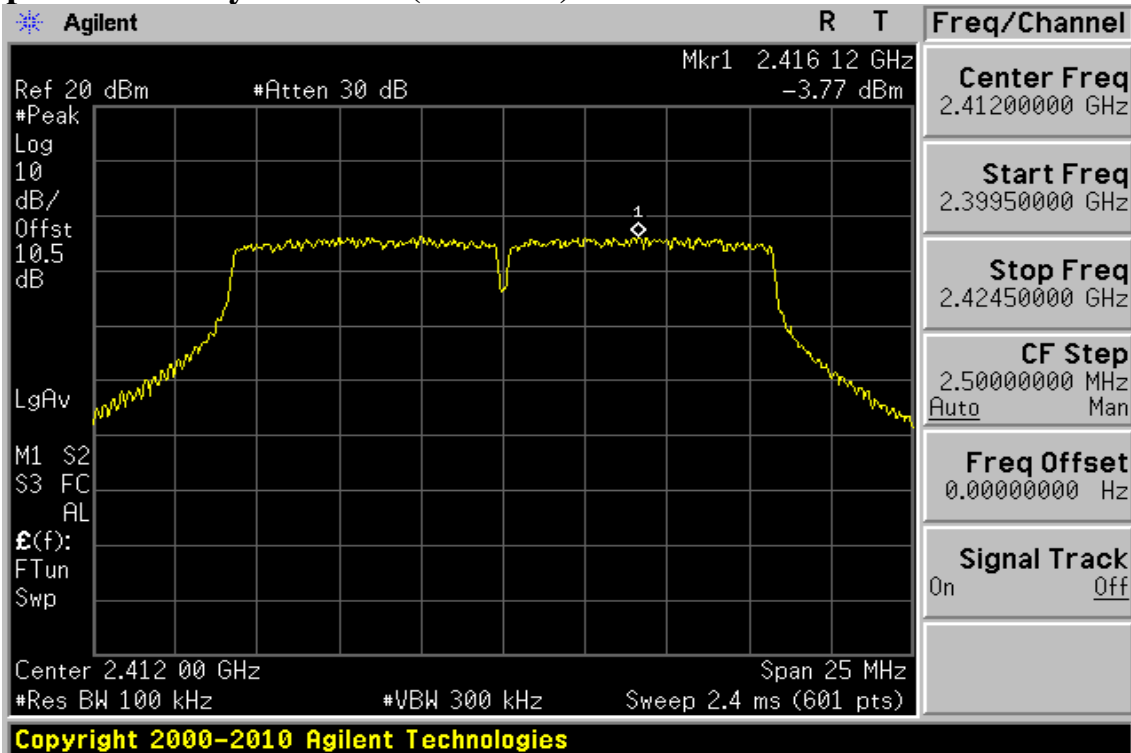
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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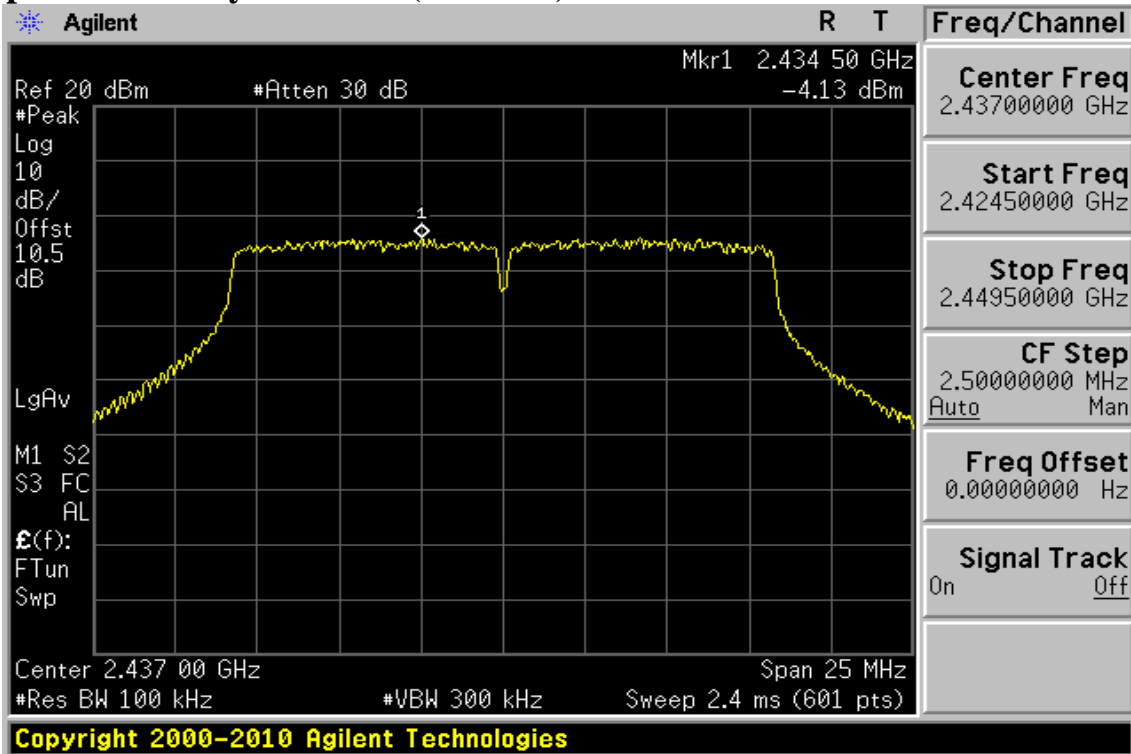
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f (886-2) 2298-0488

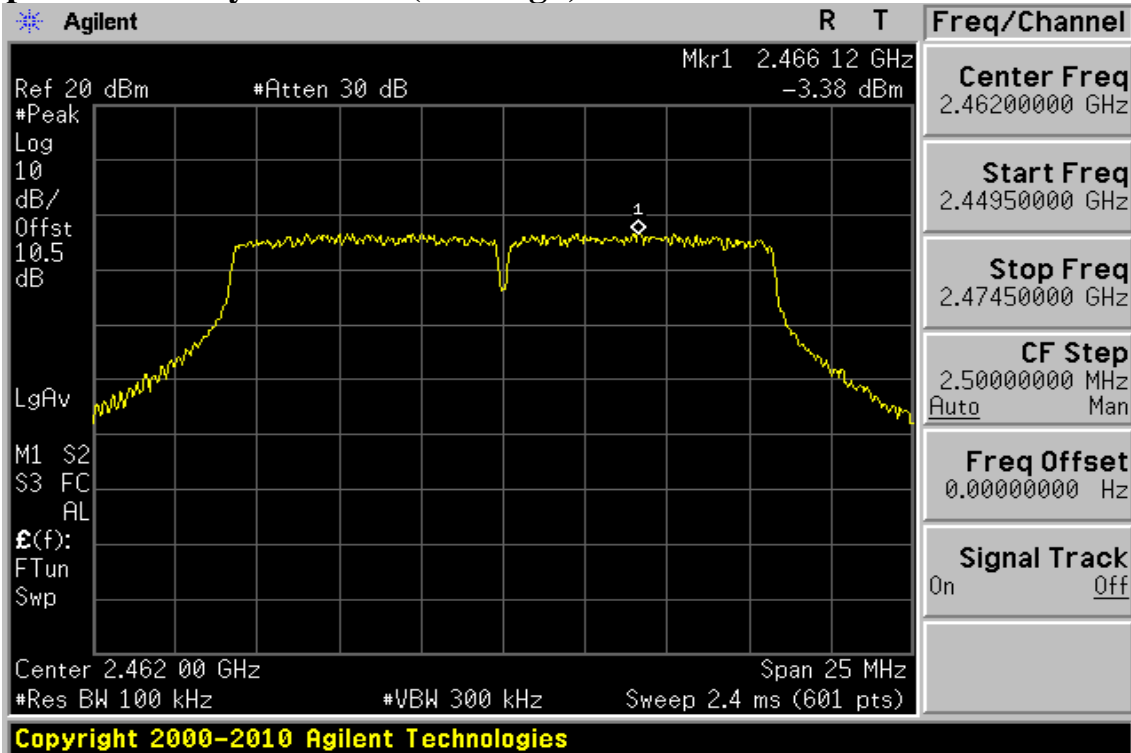
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)

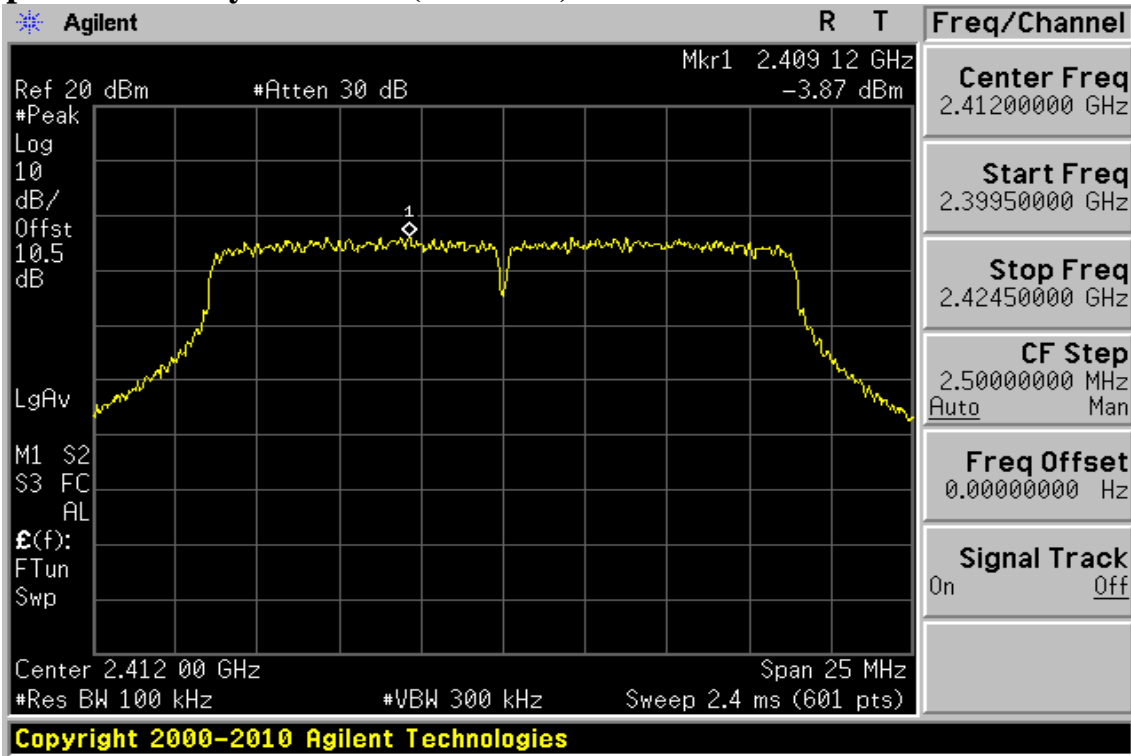


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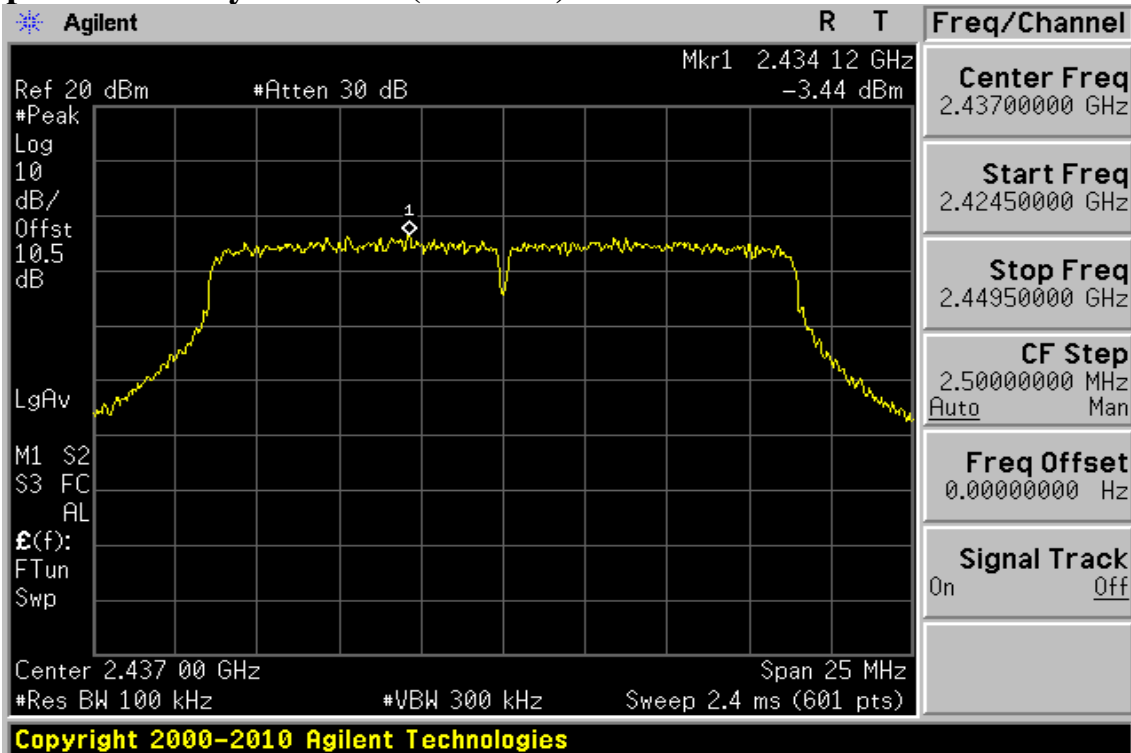
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802.11n_20MHz

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

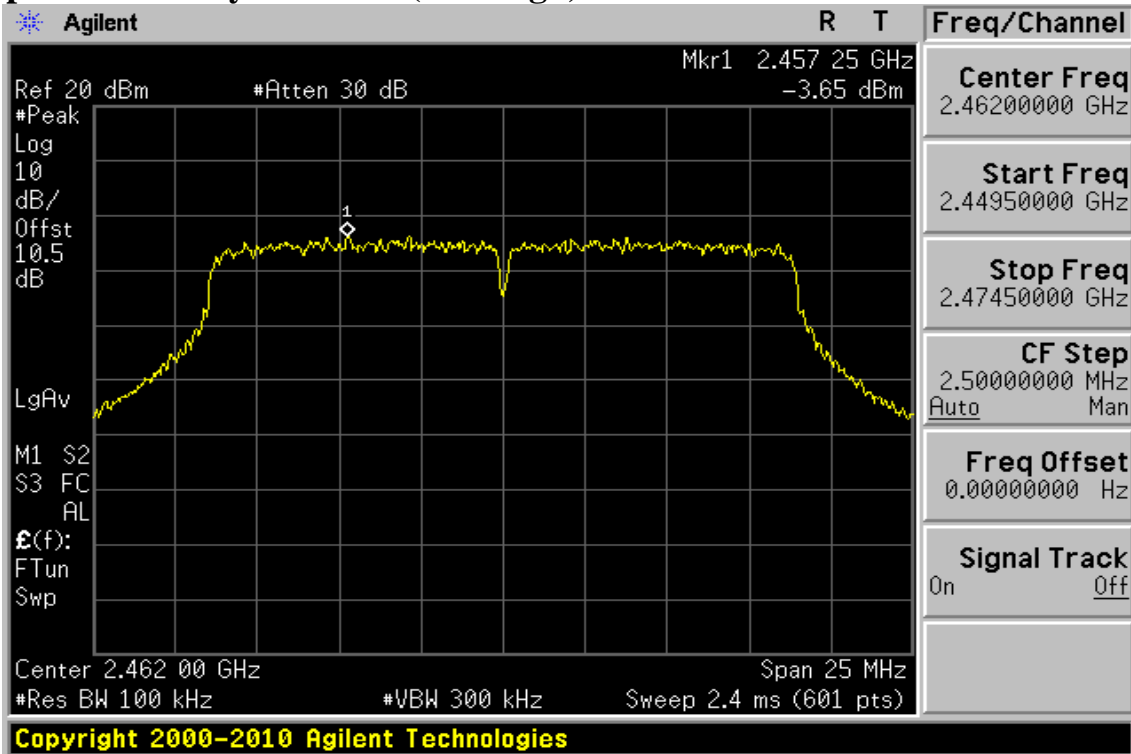


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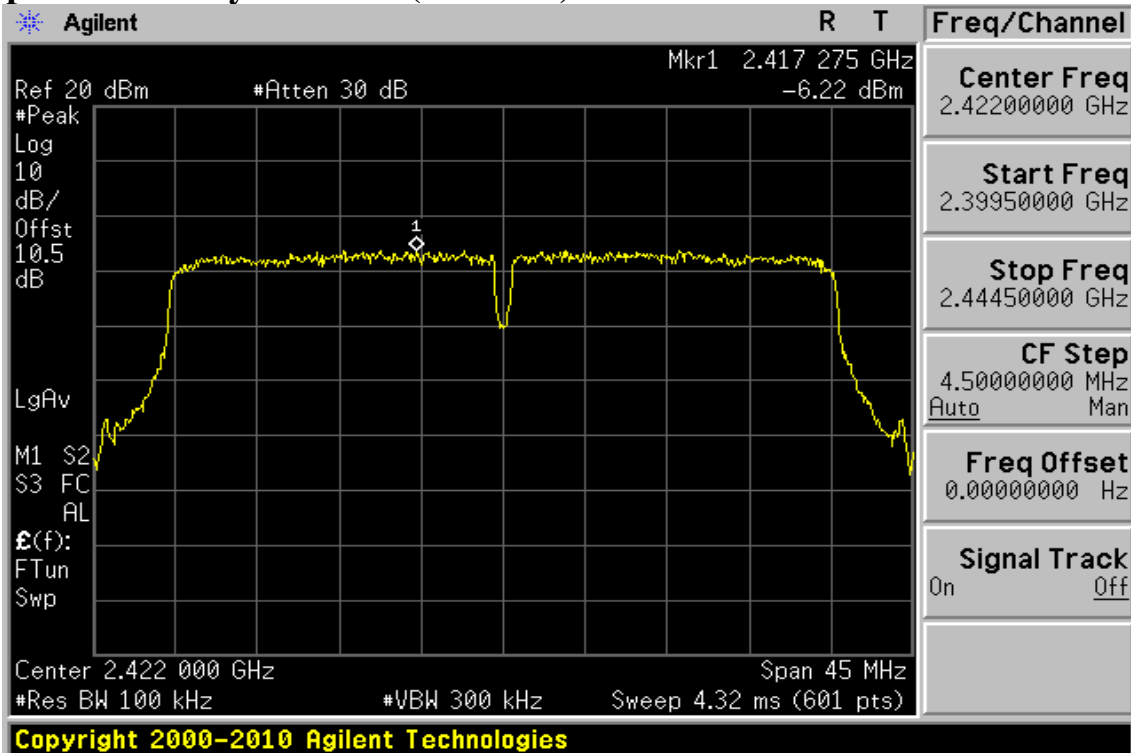
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Power Spectral Density Test Plot (CH-High)



802.11n_40MHz

Power Spectral Density Test Plot (CH-Low)

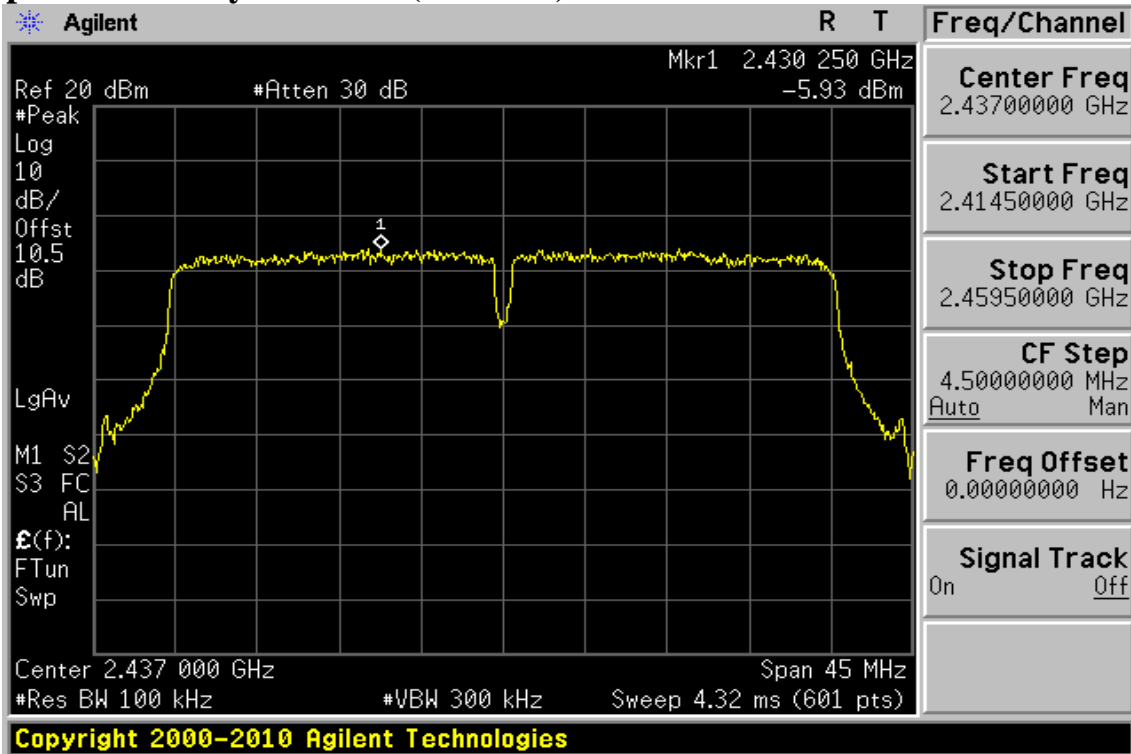


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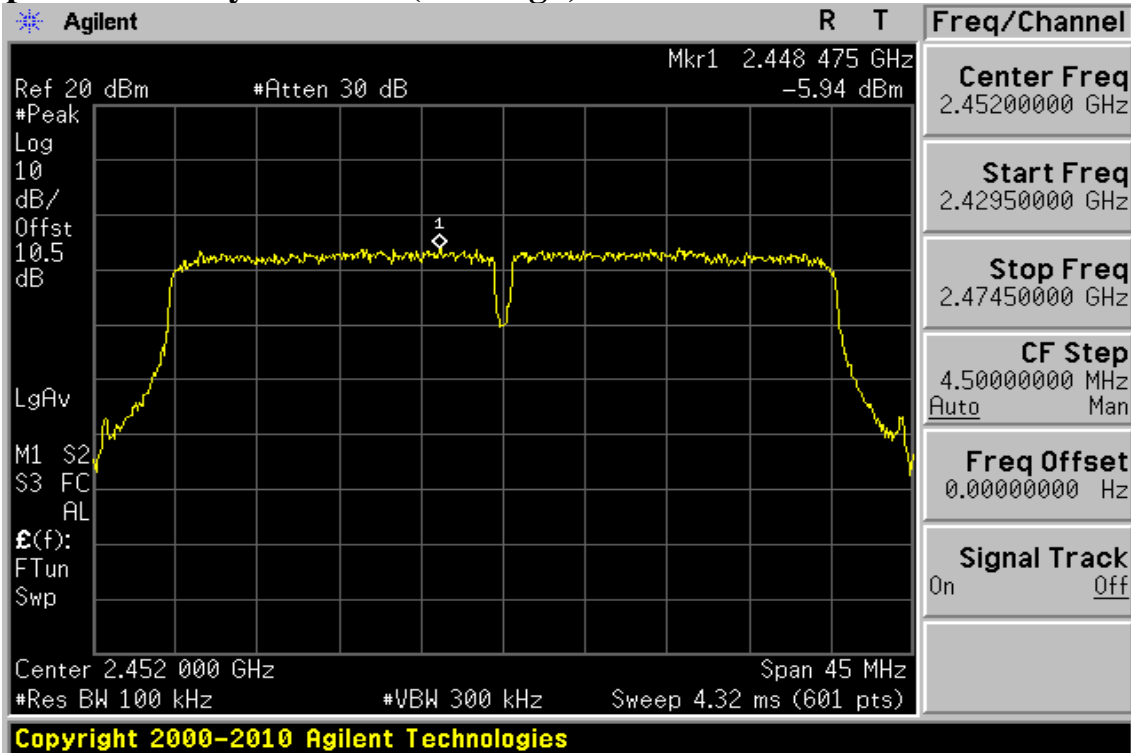
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Power Spectral Density Test Plot (CH-Mid)



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.

12.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is 2.0 dBi and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.

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13 Maximum Permissible Exposure (MPE)

13.1. Standard Applicable

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

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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13.2. Maximum Permissible Exposure (MPE) Evaluation

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4 \pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	16.94	(dBm)
Maximum peak output power at antenna input terminal:	49.4310687	(mW)
Duty cycle:	99	(%)
Maximum Pav :	48.93675801	(mW)
Antenna gain (typical):	2	(dBi)
Maximum antenna gain:	1.584893192	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2462	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.0154378	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.1543781	(W/m ²)

Measurement Result

The predicted power density level at 20 cm is 0.0154 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2462MHz.

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