

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

Product Name:	Vehicle Mount Terminal
Brand Name:	Honeywell
Marketing Name:	Thor VM2
Model No.:	VM2W
Model Difference:	N/A
IC:	1693B-VM2W01
FCC ID:	KDZVM2W01
Report No.:	EH/2012/A0036
Issue Date:	Nov. 08, 2012
FCC Rule Part:	§15.247, Cat: DTS
IC Rule Part:	RSS-210 issue 8 :2010, Annex 8
Prepared for:	Honeywell International Inc., Honeywell Scanning and Mobility 9680 Old Bailes Road, Fort Mill, SC 29707, USA SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803
Prepared by:	



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VERIFICATION OF COMPLIANCE

Applicant: Honeywell International Inc.,
Honeywell Scanning and Mobility
9680 Old Bailes Road, Fort Mill, SC 29707, USA

Product Name: Vehicle Mount Terminal

Brand Name: Honeywell

Marketing Name: Thor VM2

IC: 1693B-VM2W01

FCC ID: KDZVM2W01

Model No.: VM2W

Model Difference: N/A

File Number: EH/2012/A0036

Date of test: Oct. 05, 2012 ~ Nov. 01, 2012

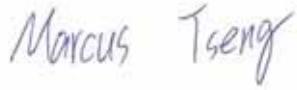
Date of EUT Received: Oct. 05, 2012

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 2009 and RSS-Gen. issue 3. The energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and IC RSS 210 issue 8: 2010 Annex 8.

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

Test By:



Date

Nov. 23, 2012

Marcus Tseng / Engineer

Prepared By:



Date

Nov. 23, 2012

Tiffany Kao / Clerk

Approved By:



Date

Nov. 23, 2012

Jim Chang / Supervisor

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IC: 1693B-VM2W01

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Issue Date: Nov. 08, 2012
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Version

Version No.	Date	Description
00	Nov. 08, 2012	Initial creation of document

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1 GENERAL INFORMATION

General:

Product Name:	Vehicle Mount Terminal	
Marketing Name:	Thor VM2	
Brand Name:	Honeywell	
Model No.:	VM2W	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	10.8Vdc Li-ion battery or 100-240Vdc from AC/DC adapter	
	Battery:	Model No.: OVT310L1R00 Supplier: TOTEX International Limited
	Adapter:	Model No.:GT-81081-6015-T3, Supplier: GlobTek, Inc.

WLAN: 802.11 a/b/g/n

Wi-Fi	Frequency Range	Channels	Rated Power (Peak)	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 16.51dBm g : 16.97dBm	DSSS, OFDM	b : 13M3G1D g : 17M3D1D
11n (2.4GHz)	HT20 2412-2462	11	n: 15.19dBm (MIMO Chain0) n: 15.10dBm (MIMO Chain 1) n: 18.16dBm (MIMO Chain 0+1)	OFDM	17M9D1D
11n (2.4GHz)	HT40 2422-2452	9	n: 10.96dBm (MIMO Chain0) n: 10.44dBm (MIMO Chain 1) n: 13.72dBm (MIMO Chain 0+1)	OFDM	36M2D1D

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Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology	Type of Emission	
11a	5725-5850	5	a: 14.52dBm	OFDM	17M2D1D	
11n (5GHz)	HT20 5725-5850	5	n: 14.20dBm (MIMO Chain0) n: 14.05dBm (MIMO Chain 1) n: 17.08dBm (MIMO Chain 0+1)		17M8D1D	
11n (5GHz)	HT40 5725-5850	2	n: 12.89dBm (MIMO Chain0) n: 12.32dBm (MIMO Chain 1) n: 15.62dBm (MIMO Chain 0+1)		36M3D1D	
Antenna Designation:		Internal: PIFA Antenna Model No.: 40120512 2.4GHz: 1.8dBi / 5GHz: 4.97dBi External: Dipole Antenna Model No.: WTS 2450 2.4GHz: 2.98dBi / 5GHz: 0.77dBi Model No.: R380500314 2.4GHz: 1.94dBi / 5GHz: 4.85dBi				
Modulation type		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM				
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps; 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 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps				

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

This report applies for frequency bands: 2412MHz-2462MHz, 5725MHz-5850MHz.

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1.1 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: KDZVM2W01** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. And **IC: 1693B-VM2W01** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.2 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 2009 and RSS-Gen: 2010. Radiated testing was performed at an antenna to EUT distance 3 meters.

Tested in accordance with Oct 2012 KDB558074 D01 V02 for compliance to FCC 47CFR 15.247 requirements.

1.3 Test Facility

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

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

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7.3.1 of ANSI C63.4-2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is 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 C63.4-2009.

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2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

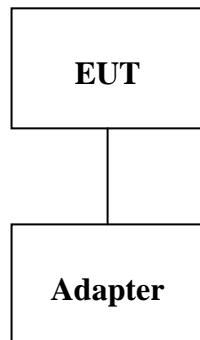


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	SCU	v3.03.08	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §7.2.4	AC Power Line Conducted Emission	Compliant
§15.247(b) (3),(4)(c) RSS-210 §A8.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-210 §A8.4(4)	6dB Bandwidth	Compliant
§15.247(d) RSS-210 §A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d) RSS-210 §A8.4(4)	Spurious Emission	Compliant
§15.247(e) RSS-210 §A8.2(b)	Peak Power Density	Compliant
§15.203 RSS-GEN §7.1.2,	Antenna Requirement	Compliant
RSS-Gen §4.6.1	99% Power Bandwidth	Compliant

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4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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

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

802.11 n_40MHz: Lowest (2422MHz), Mid(2437MHz) and high (2452MHz) with 13.5 Mbps highest data rate are chosen for above testing.

802.11 a mode: Channel low (5745MHz)、mid (5785MHz) and high (5825MHz) with 6Mbps highest data rate are chosen for full testing.

802.11 n (5GHz) _20MHz: Lowest (5745MHz), Mid (5785MHz) and high (5825MHz) with 6.5 Mbps highest data rate are chosen for full testing.

802.11 n (5GHz) _40MHz: Lowest (5755MHz) and high (5795MHz) with 13.5 Mbps highest data rate are chosen for full testing.

Pre-scanned was done on external antenna: WTS 2450 and antenna R380500314, and antenna WTS 2450 results higher emission at 2.4GHz. Moreover, antenna R380500314 results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: WTS 2450 (2.4GHz) and R380500314 (5GHz), to presented on this test report.

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

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

Note

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

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	05/20/2011	05/19/2013
EMI Receiver	R&S	ESCS 30	828985/004	09/23/2012	09/22/2013
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 C63.4-2009.
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.

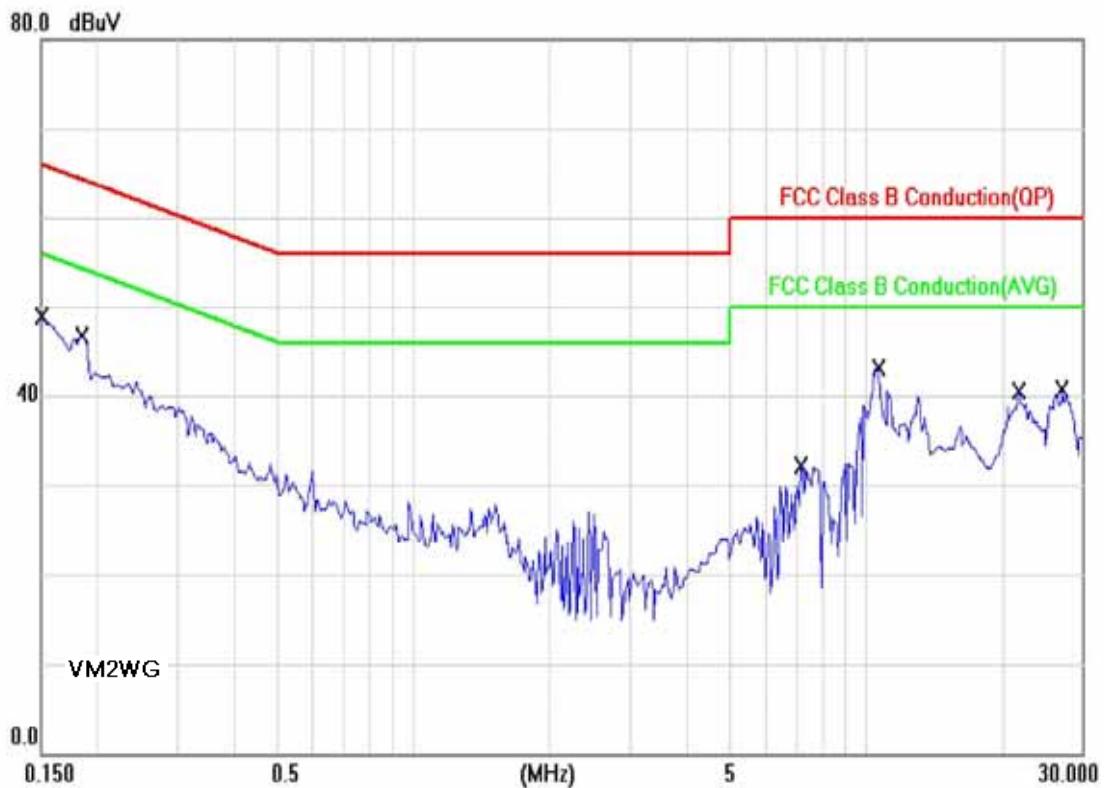
Note: Refer to next page for measurement data and plots.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode	Test Date:	Nov. 24, 2012
Temperature:	26	Humidity:	60 %



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Comment
			Level	Factor	ment			
1		0.1500	48.57	0.25	48.82	66.00	-17.18	QP
2		0.1852	46.53	0.23	46.76	64.25	-17.49	QP
3		7.2110	31.73	0.37	32.10	60.00	-27.90	QP
4	*	10.6327	42.66	0.46	43.12	60.00	-16.88	QP
5		21.8242	39.59	0.94	40.53	60.00	-19.47	QP
6		27.1836	39.65	1.14	40.79	60.00	-19.21	QP

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No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over	
							Detector	Comment
1		0.1500	48.13	0.35	48.48	66.00	-17.52	QP
2		0.1812	46.08	0.33	46.41	64.43	-18.02	QP
3		0.5977	36.92	0.34	37.26	56.00	-18.74	QP
4 *		10.6327	42.74	0.48	43.22	60.00	-16.78	QP
5		21.8242	39.11	0.81	39.92	60.00	-20.08	QP
6		27.0040	39.15	0.92	40.07	60.00	-19.93	QP

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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

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(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.

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

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

Note: The antenna gain is greater than 6 dBi in 5GHz MIMO mode the limit reduce as below:

5725-5850 MHz

Antenna Gain: $4.97 \text{ dBi} + 10 \log (2) = 7.98 \text{ dBi}$

Limit: $30 \text{ dBm} - (7.98 - 6 \text{ dBi}) = 28.02 \text{ dB} = 0.63 \text{ W}$

Remark: While conducting average power measurement, duty cycle of each mode (b/g/n_HT20, HT40 SISO, and MIMO) shall be greater than 98%. All duty cycle is pre-scanned, but verified to be greater than 98%.

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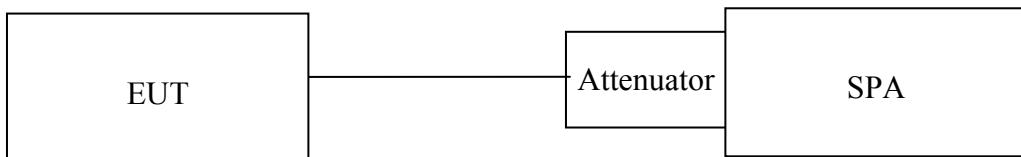
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7.2 Measurement Equipment Used:

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:



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7.4 Measurement Procedure:

Peak Power:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW = 1MHz, VBW = 3MHz, span >=30% of EBW, where Bandwidth = 26dB occupied Bandwidth, Detector =peak, Sweep = Auto)
3. Using integrated band power measurement function by setting limit equal to EBW's band edges
4. Record the max. reading.
5. Repeat above procedures until all measurement of required selective channel (low, mid, high) is completed.
6. For MIMO operation, measurement is done per chain basis, and then sum the simultaneous transmitting output in linear.

Average Power:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW = 1MHz, VBW = 3MHz, span >=30% of EBW, where Bandwidth = 26dB occupied Bandwidth, Detector = power average, Sweep = Auto)
3. Set average trace = 100 times in power average mode
4. Using integrated band power measurement function by setting limit equal to EBW's band edges
5. Record the max. reading.
6. Repeat above procedures until all measurement of required selective channel (low, mid, high) is completed.
7. For MIMO operation, measurement is done per chain basis, and then sum the simultaneous transmitting output in linear.

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7.5 Measurement Result:

802.11b

Cable loss = 0		Peak Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	16.51	16.40	16.29	16.19	1 Watt = 30 dBm
6	2437	16.35	16.22	16.10	15.98	1 Watt = 30 dBm
11	2462	16.36	16.30	16.25	16.20	1 Watt = 30 dBm

Cable loss = 0		Average Power Output (dBm)				
CH	Frequency (MHz)	Data Rate				Required Limit
		1	2	5.5	11	
1	2412	13.87	13.72	13.57	13.43	1 Watt = 30 dBm
6	2437	13.60	13.41	13.23	13.05	1 Watt = 30 dBm
11	2462	13.89	13.74	13.59	13.45	1 Watt = 30 dBm

802.11g

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	16.97	16.63	16.30	15.96	15.63	15.29	14.96	14.63	1 Watt = 30 dBm
6	2437	16.68	16.36	16.05	15.74	15.43	15.12	14.81	14.50	1 Watt = 30 dBm
11	2462	15.67	15.30	14.94	14.57	14.21	13.84	13.48	13.12	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
1	2412	13.59	13.21	12.84	12.46	12.09	11.71	11.34	10.97	1 Watt = 30 dBm
6	2437	13.45	13.05	12.65	12.25	11.86	11.46	11.06	10.67	1 Watt = 30 dBm
11	2462	12.15	11.79	11.43	11.08	10.72	10.37	10.01	9.66	1 Watt = 30 dBm

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802.11n_20M (2.4G) MIMO Chain 0

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	12.09	11.50	10.92	10.34	9.75	9.17	8.59	8.01	1 Watt = 30 dBm
6	2437	15.19	14.61	14.04	13.46	12.89	12.31	11.74	11.17	1 Watt = 30 dBm
11	2462	12.31	11.74	11.17	10.60	10.04	9.47	8.91	8.34	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	8.61	8.07	7.53	6.99	6.46	5.92	5.39	4.85	1 Watt = 30 dBm
6	2437	11.73	11.20	10.67	10.14	9.61	9.08	8.55	8.02	1 Watt = 30 dBm
11	2462	8.65	8.11	7.58	7.04	6.51	5.98	5.44	4.91	1 Watt = 30 dBm

802.11n_20M (2.4G) MIMO Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	12.05	11.45	10.86	10.26	9.67	9.07	8.48	7.89	1 Watt = 30 dBm
6	2437	15.10	14.52	13.94	13.36	12.78	12.20	11.63	11.05	1 Watt = 30 dBm
11	2462	11.93	11.40	10.87	10.34	9.82	9.29	8.77	8.24	1 Watt = 30 dBm

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	8.48	7.94	7.40	6.86	6.33	5.79	5.26	4.72	1 Watt = 30 dBm
6	2437	11.45	10.94	10.44	9.93	9.43	8.93	8.42	7.92	1 Watt = 30 dBm
11	2462	8.61	8.06	7.52	6.98	6.44	5.90	5.36	4.82	1 Watt = 30 dBm

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802.11n_20M (2.4G) MIMO Chain 0+Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	15.08	14.49	13.90	13.31	12.72	12.13	11.55	10.96	1 Watt = 30 dBm
6	2437	18.16	17.58	17.00	16.42	15.85	15.27	14.70	14.12	1 Watt = 30 dBm
11	2462	15.13	14.58	14.03	13.48	12.94	12.39	11.85	11.30	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
1	2412	11.56	11.02	10.48	9.94	9.41	8.87	8.34	7.80	1 Watt = 30 dBm
6	2437	14.60	14.08	13.57	13.05	12.53	12.02	11.50	10.98	1 Watt = 30 dBm
11	2462	11.64	11.10	10.56	10.02	9.49	8.95	8.41	7.88	1 Watt = 30 dBm

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802.11n_40M (2.4G) MIMO Chain 0

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	10.48	9.83	9.18	8.53	7.88	6.48	5.83	5.92	1 Watt = 30 dBm
6	2437	10.96	10.42	9.88	9.34	8.80	7.31	6.77	7.15	1 Watt = 30 dBm
11	2452	10.11	9.67	9.23	8.79	8.35	6.97	6.53	7.03	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	6.60	6.05	5.50	4.95	4.40	3.54	2.99	2.78	1 Watt = 30 dBm
6	2437	7.48	6.97	6.46	5.95	5.44	4.44	3.93	3.92	1 Watt = 30 dBm
11	2452	6.46	6.09	5.72	5.35	4.98	4.11	3.74	3.85	1 Watt = 30 dBm

802.11n_40M (2.4G) MIMO Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	9.88	9.27	8.66	8.05	7.44	6.12	5.51	5.62	1 Watt = 30 dBm
6	2437	10.44	9.94	9.44	8.94	8.44	7.02	6.52	6.92	1 Watt = 30 dBm
11	2452	9.67	9.27	8.87	8.47	8.07	6.75	6.35	6.86	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	6.32	5.74	5.16	4.58	4.00	3.18	2.60	2.25	1 Watt = 30 dBm
6	2437	7.08	6.60	6.12	5.64	5.16	4.22	3.74	3.75	1 Watt = 30 dBm
11	2452	6.20	5.84	5.48	5.12	4.76	3.93	3.57	3.68	1 Watt = 30 dBm

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802.11n_40M (2.4G) MIMO Chain 0+Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	13.20	12.57	11.94	11.31	10.68	9.31	8.68	8.78	1 Watt = 30 dBm
6	2437	13.72	13.20	12.68	12.15	11.63	10.18	9.66	10.05	1 Watt = 30 dBm
11	2452	12.91	12.48	12.06	11.64	11.22	9.87	9.45	9.96	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
1	2422	9.47	8.91	8.34	7.78	7.21	6.37	5.81	5.53	1 Watt = 30 dBm
6	2437	10.29	9.80	9.30	8.81	8.31	7.34	6.85	6.85	1 Watt = 30 dBm
11	2452	9.34	8.98	8.61	8.25	7.88	7.03	6.67	6.78	1 Watt = 30 dBm

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802.11a

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
149	5745	14.20	14.01	13.82	13.63	13.44	13.25	13.06	12.88	1 Watt = 30 dBm
157	5785	13.98	13.80	13.62	13.45	13.27	13.10	12.92	12.75	1 Watt = 30 dBm
165	5825	14.52	14.28	14.05	13.82	13.58	13.35	13.12	12.89	1 Watt = 30 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
149	5745	10.68	10.49	10.30	10.11	9.93	9.74	9.55	9.37	1 Watt = 30 dBm
157	5785	10.52	10.32	10.13	9.94	9.74	9.55	9.36	9.17	1 Watt = 30 dBm
165	5825	11.02	10.77	10.53	10.28	10.04	9.79	9.55	9.31	1 Watt = 30 dBm

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802.11n_20M (5GHz) MIMO Chain 0

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	13.87	13.51	13.15	12.79	12.43	12.07	11.71	11.35	0.63 Watt = 28.02 dBm
157	5785	14.20	13.80	13.40	13.00	12.60	12.20	11.80	11.40	0.63Watt =28.02 dBm
165	5825	14.09	13.73	13.37	13.01	12.66	12.30	11.95	11.59	0.63 Watt = 28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	10.26	9.90	9.54	9.18	8.83	8.47	8.12	7.76	0.63 Watt = 28.02 dBm
157	5785	10.74	10.31	9.89	9.47	9.05	8.63	8.21	7.79	0.63Watt =28.02 dBm
165	5825	10.42	10.10	9.78	9.47	9.15	8.84	8.53	8.21	0.63 Watt = 28.02 dBm

802.11n_20M (5GHz) MIMO Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	13.85	13.47	13.10	12.73	12.35	11.99	11.61	11.24	0.63 Watt = 28.02 dBm
157	5785	13.81	13.45	13.09	12.73	12.38	12.02	11.67	11.31	0.63Watt =28.02 dBm
165	5825	14.05	13.66	13.28	12.90	12.52	12.14	11.76	11.38	0.63 Watt = 28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	10.19	9.82	9.45	9.08	8.72	8.35	7.99	7.62	0.63 Watt = 28.02 dBm
157	5785	10.46	10.05	9.65	9.24	8.84	8.44	8.03	7.63	0.63Watt =28.02 dBm
165	5825	10.37	10.03	9.69	9.36	9.02	8.69	8.36	8.02	0.63 Watt = 28.02 dBm

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802.11n_20M (5GHz) MIMO Chain 0+ Chain1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	16.87	16.50	16.14	15.77	15.40	15.04	14.67	14.31	0.63 Watt = 28.02 dBm
157	5785	17.02	16.64	16.26	15.88	15.50	15.12	14.75	14.37	0.63Watt =28.02 dBm
165	5825	17.08	16.71	16.34	15.97	15.60	15.23	14.87	14.50	0.63 Watt = 28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130.0	144.4	
149	5745	13.24	12.87	12.51	12.14	11.79	11.42	11.07	10.70	0.63 Watt = 28.02 dBm
157	5785	13.61	13.19	12.78	12.37	11.96	11.55	11.13	10.72	0.63Watt =28.02 dBm
165	5825	13.41	13.08	12.75	12.43	12.10	11.78	11.46	11.13	0.63 Watt = 28.02 dBm

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802.11n_40M (5GHz) MIMO Chain 0

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
151	5755	12.87	12.46	12.05	11.64	11.23	9.45	9.04	9.99	0.63 Watt = 28.02 dBm
159	5795	12.89	12.46	12.03	11.60	11.17	9.39	8.96	9.87	0.63Watt =28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
151	5755	9.34	8.99	8.64	8.29	7.94	6.66	6.31	6.92	0.63 Watt = 28.02 dBm
159	5795	9.28	8.89	8.50	8.11	7.72	6.45	6.06	6.53	0.63Watt =28.02 dBm

802.11n_40M (5GHz) MIMO Chain 1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
151	5755	12.21	11.80	11.39	10.98	10.57	8.88	8.47	9.37	0.63 Watt = 28.02 dBm
159	5795	12.32	11.89	11.46	11.03	10.60	8.90	8.47	9.29	0.63Watt =28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
151	5755	8.99	8.64	8.29	7.94	7.59	6.36	6.01	6.54	0.63 Watt = 28.02 dBm
159	5795	8.60	8.25	7.90	7.55	7.20	6.02	5.67	6.15	0.63Watt =28.02 dBm

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802.11n_40M (5GHz) MIMO Chain 0+ Chain1

Cable loss = 0		Peak Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
149	5755	15.56	15.15	14.74	14.33	13.92	12.18	11.77	12.70	0.63 Watt = 28.02 dBm
157	5795	15.62	15.19	14.76	14.33	13.90	12.16	11.73	12.60	0.63Watt =28.02 dBm

Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		30	60	90	120	180	240	270	300	
149	5755	12.18	11.83	11.48	11.13	10.78	9.52	9.17	9.74	0.63 Watt = 28.02 dBm
157	5795	11.96	11.59	11.22	10.85	10.48	9.25	8.88	9.35	0.63Watt =28.02 dBm

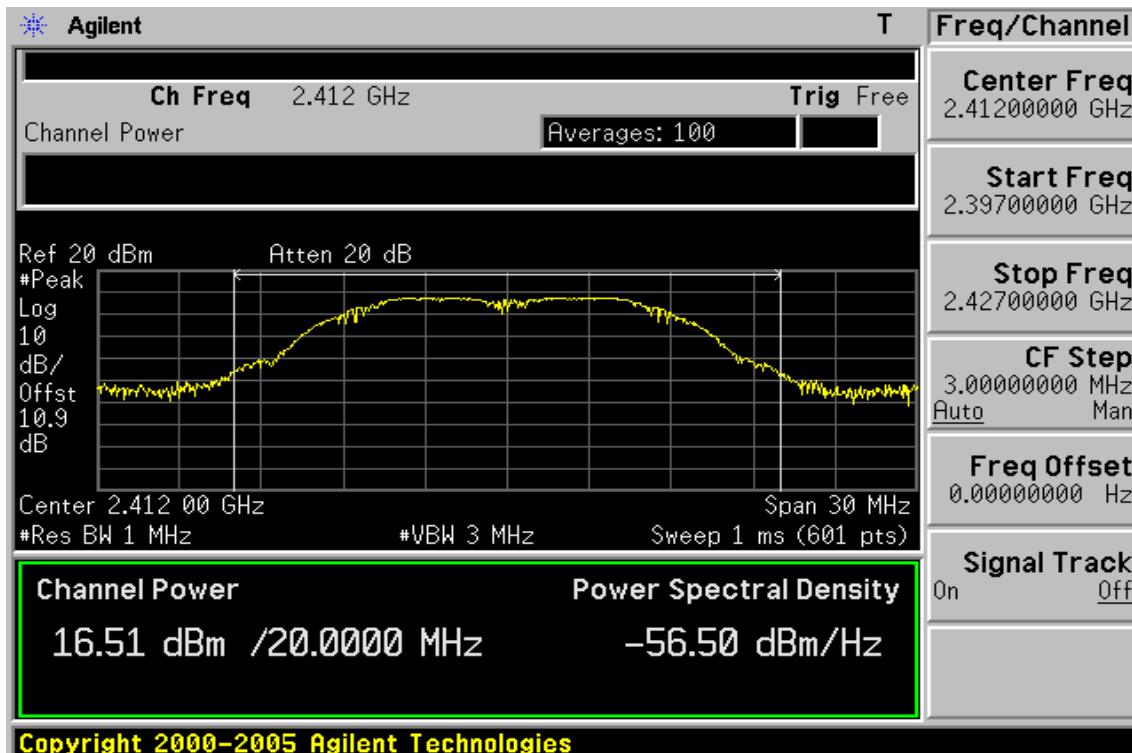
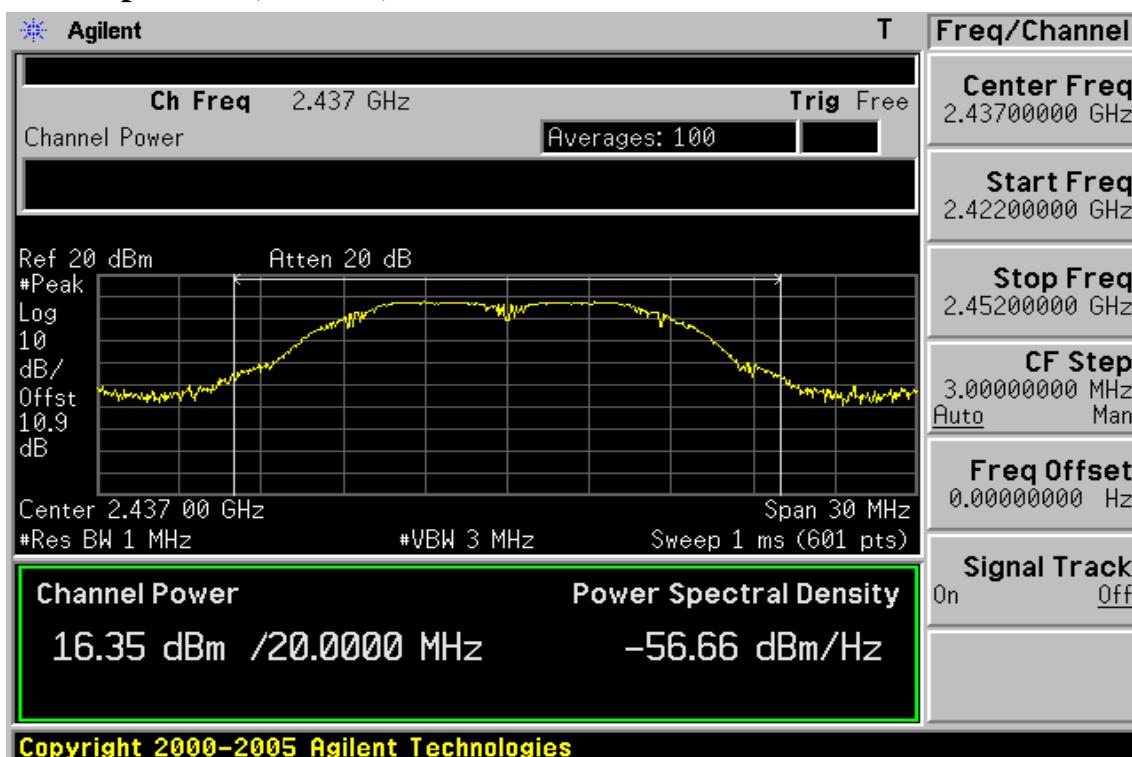
*Note: Offset 10.9dB for 2.4G

11.4dB for 5G

Note: Refer to next page for plots.

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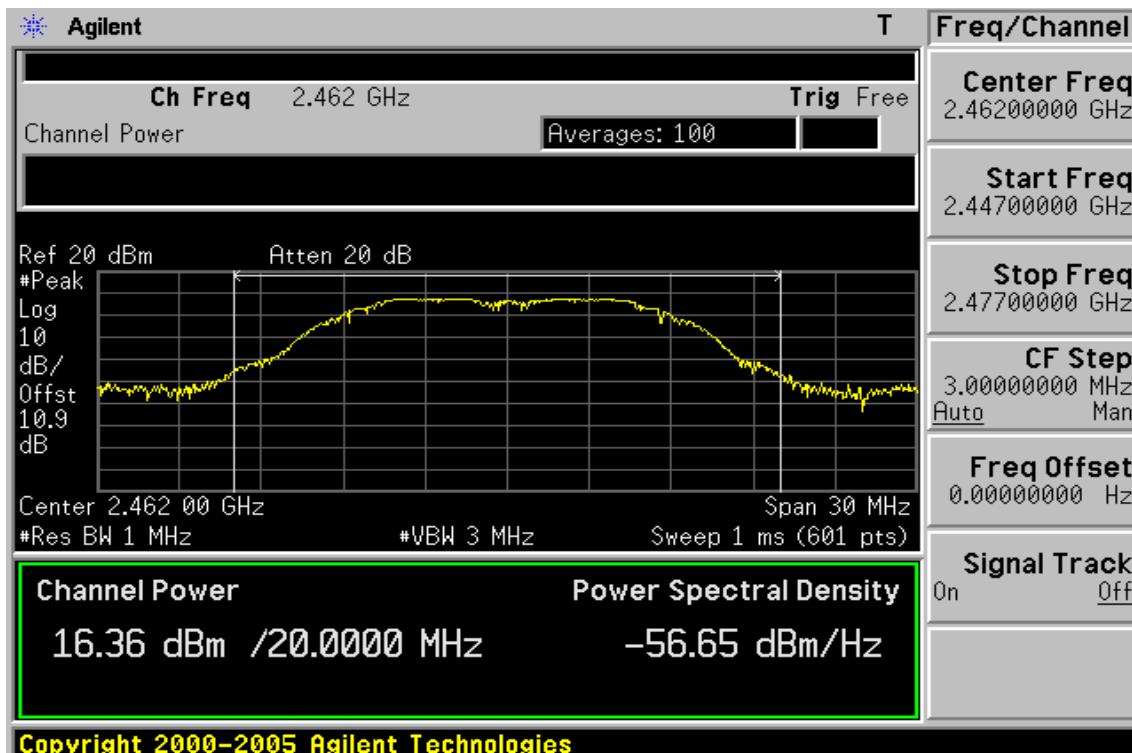
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802.11b, 1Mbps**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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Peak Power Output Plot (CH High)

Average Power Output Plot (CH Low)


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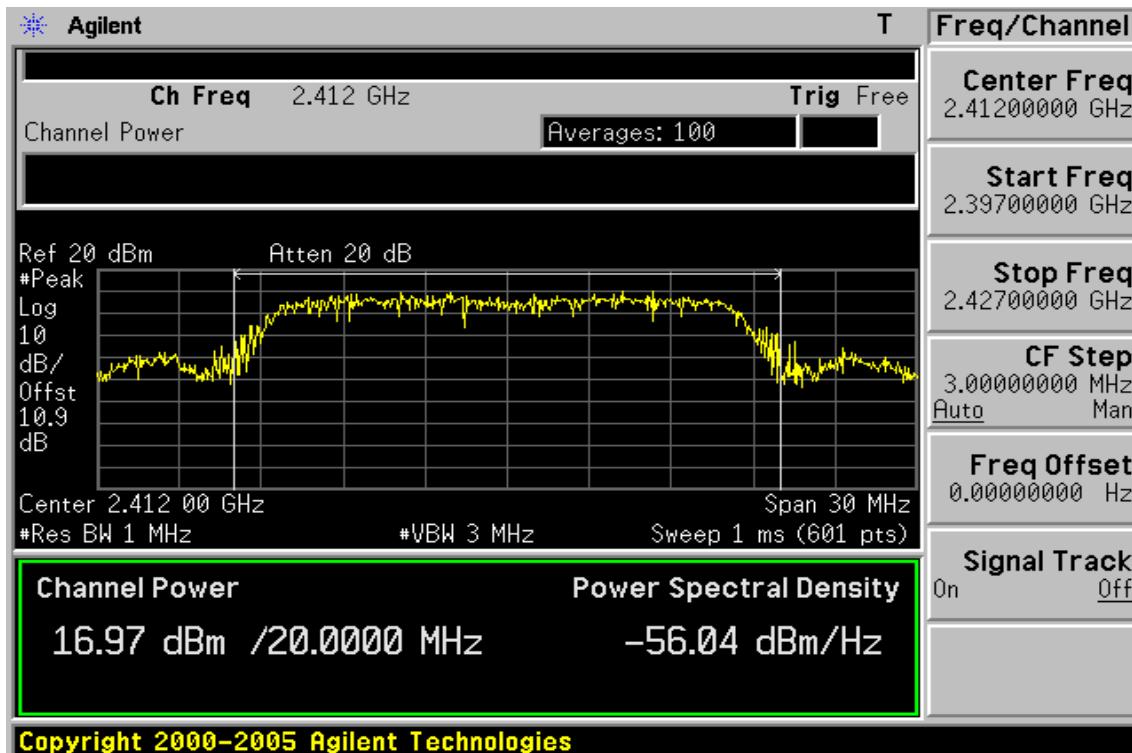
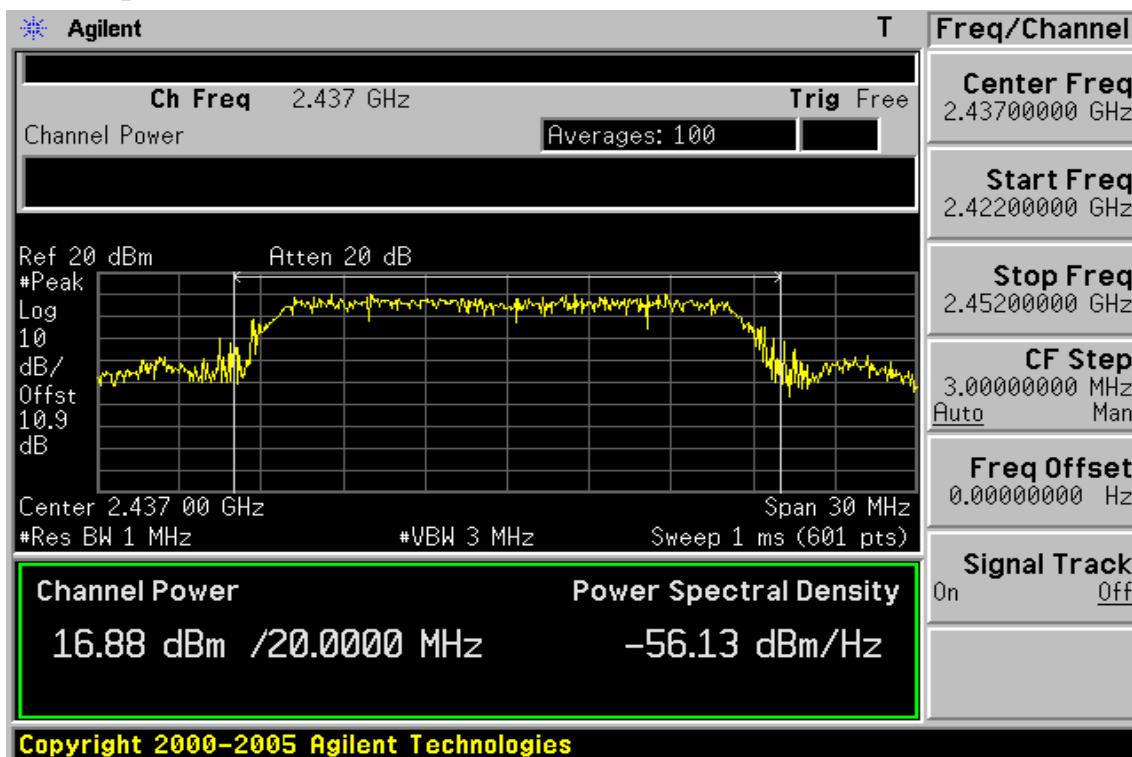
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Average Power Output Plot (CH Mid)

Average Power Output Plot (CH High)


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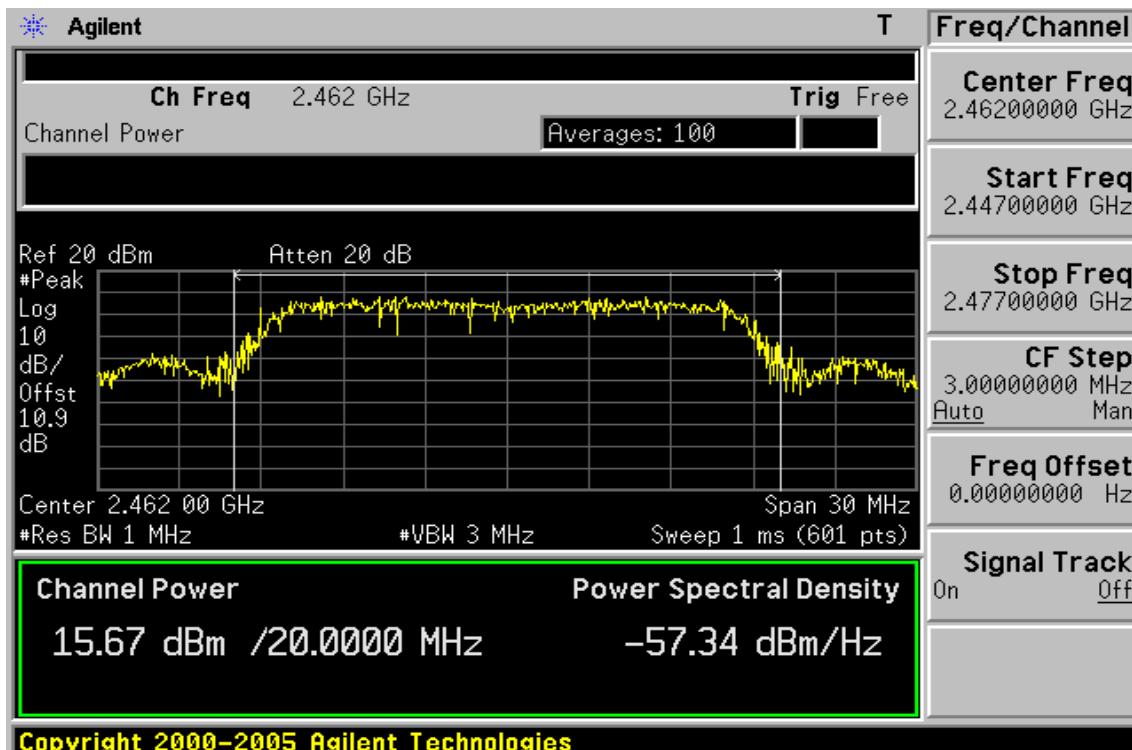
802.11g, 6Mbps**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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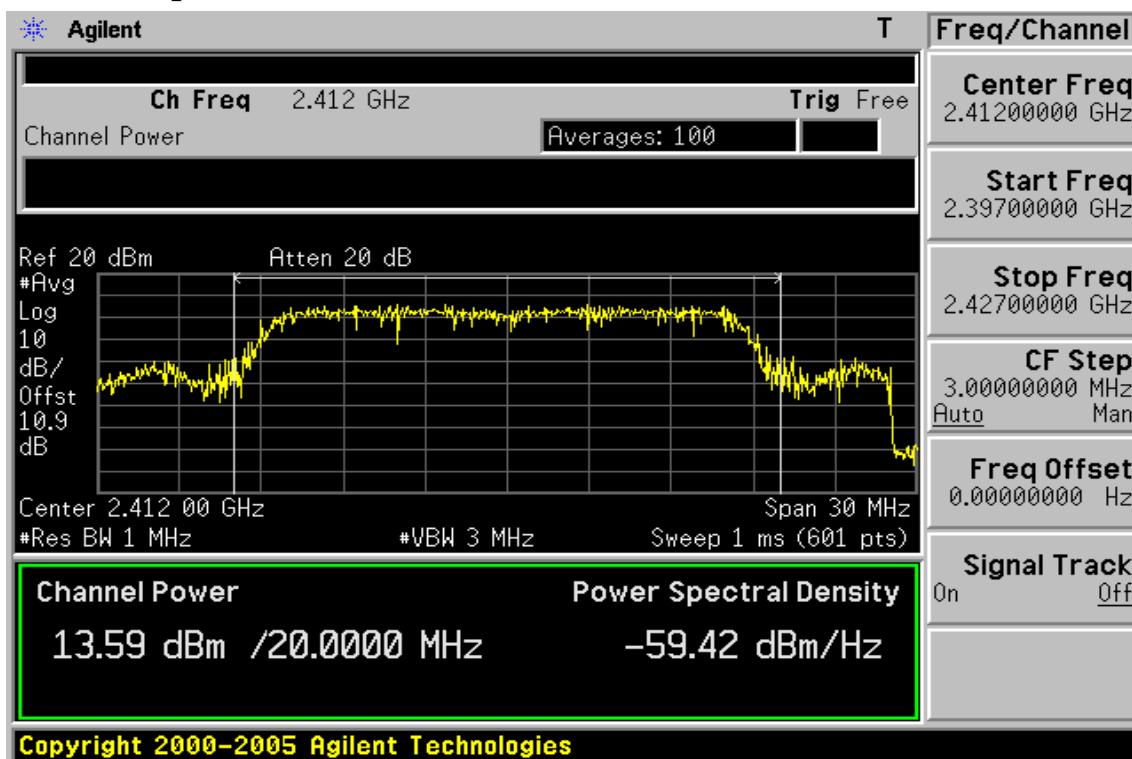
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Peak Power Output Plot (CH High)



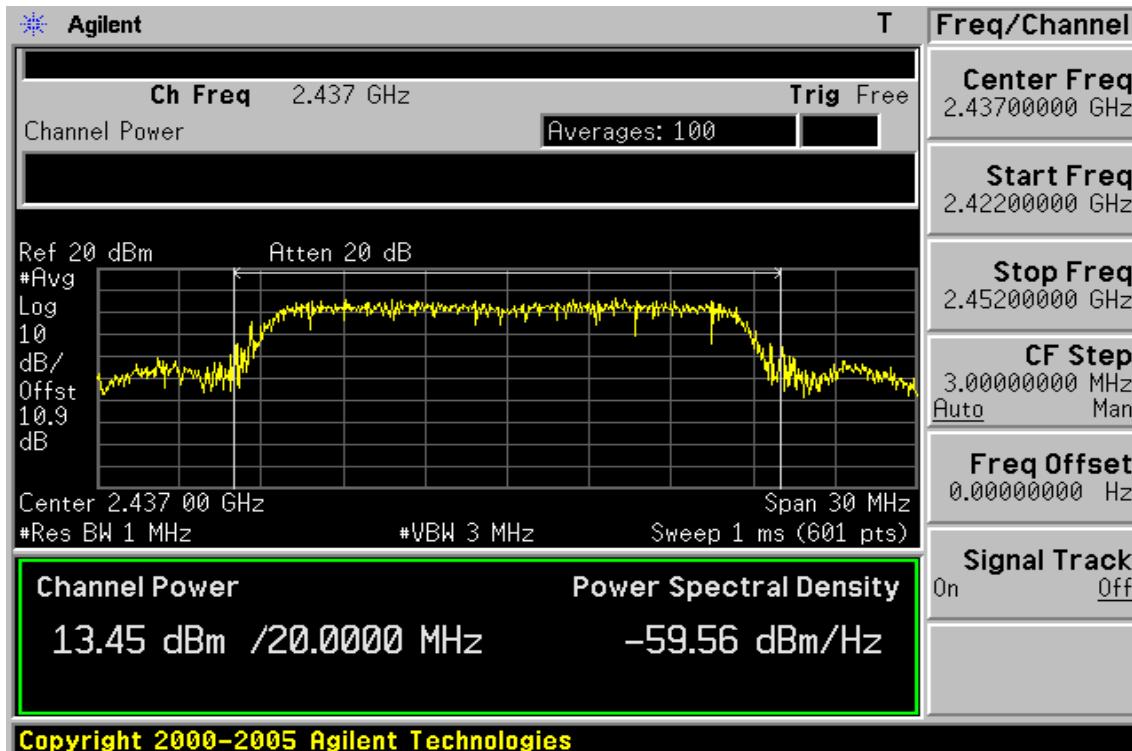
Average Power Output Plot (CH Low)



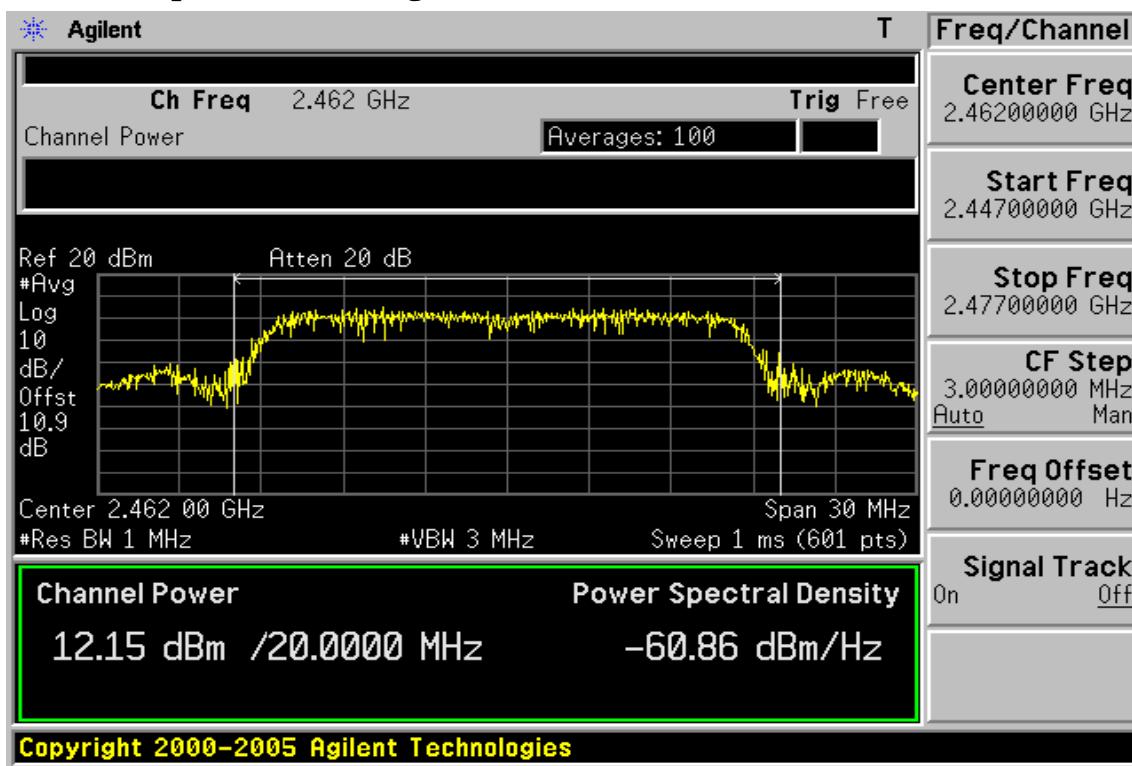
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Average Power Output Plot (CH Mid)

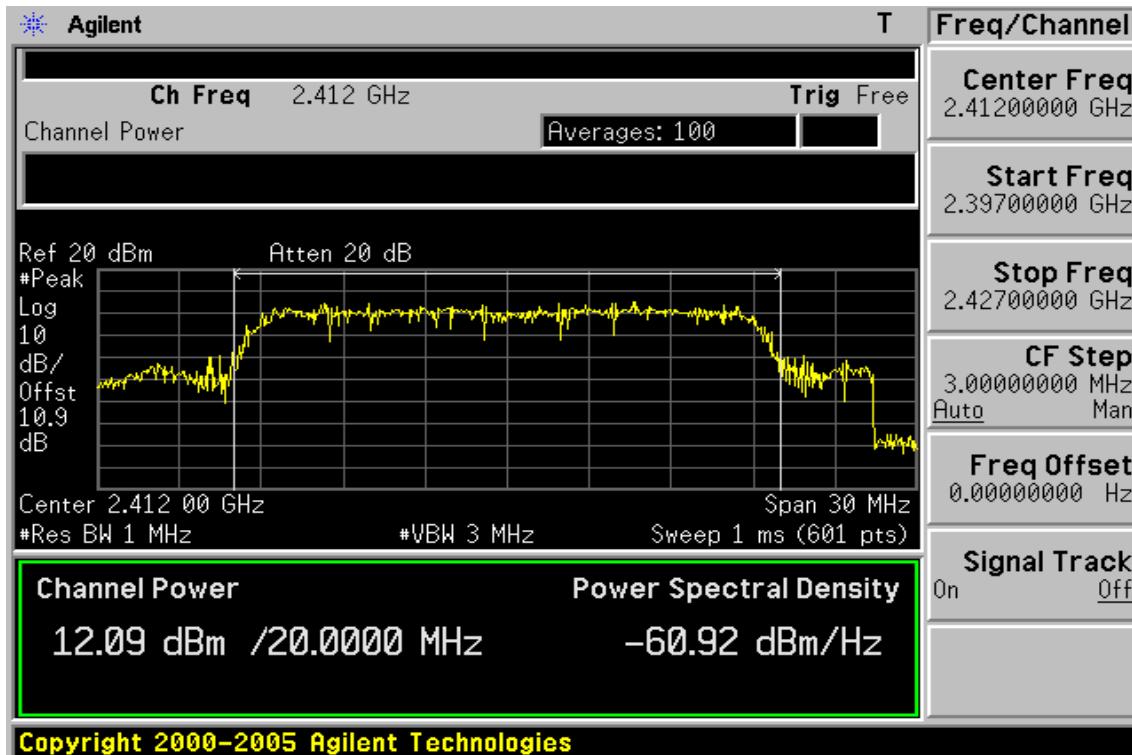
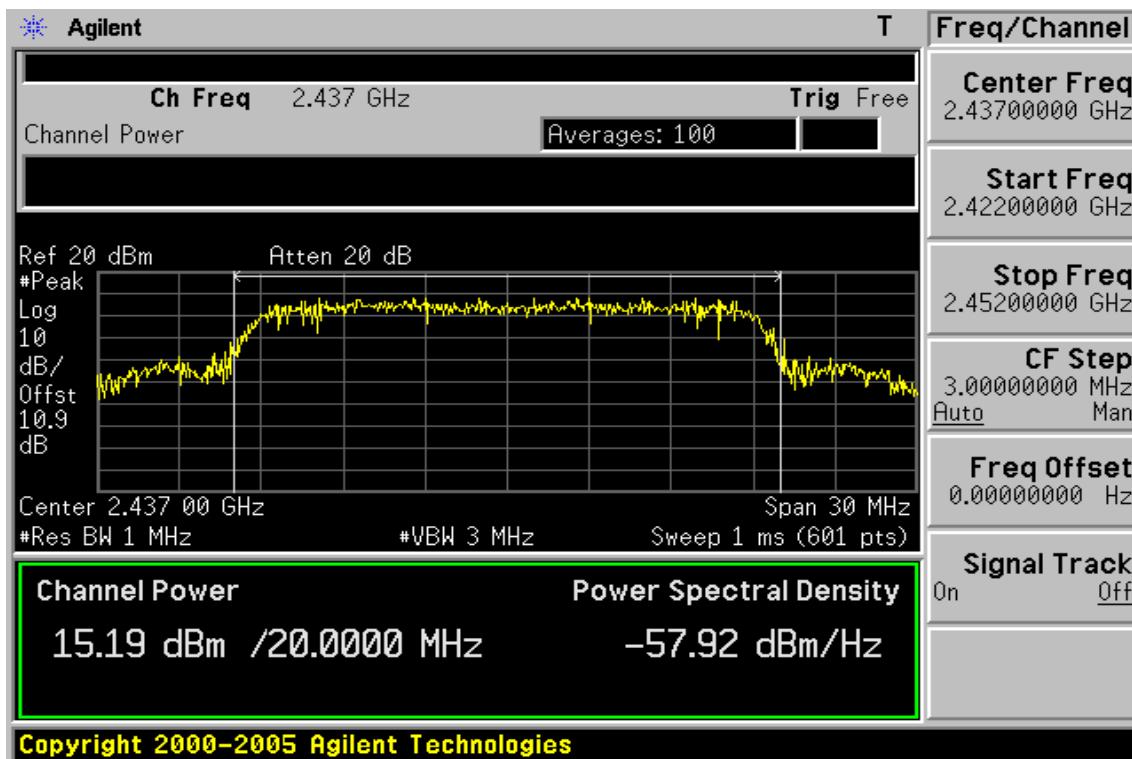


Average Power Output Plot (CH High)



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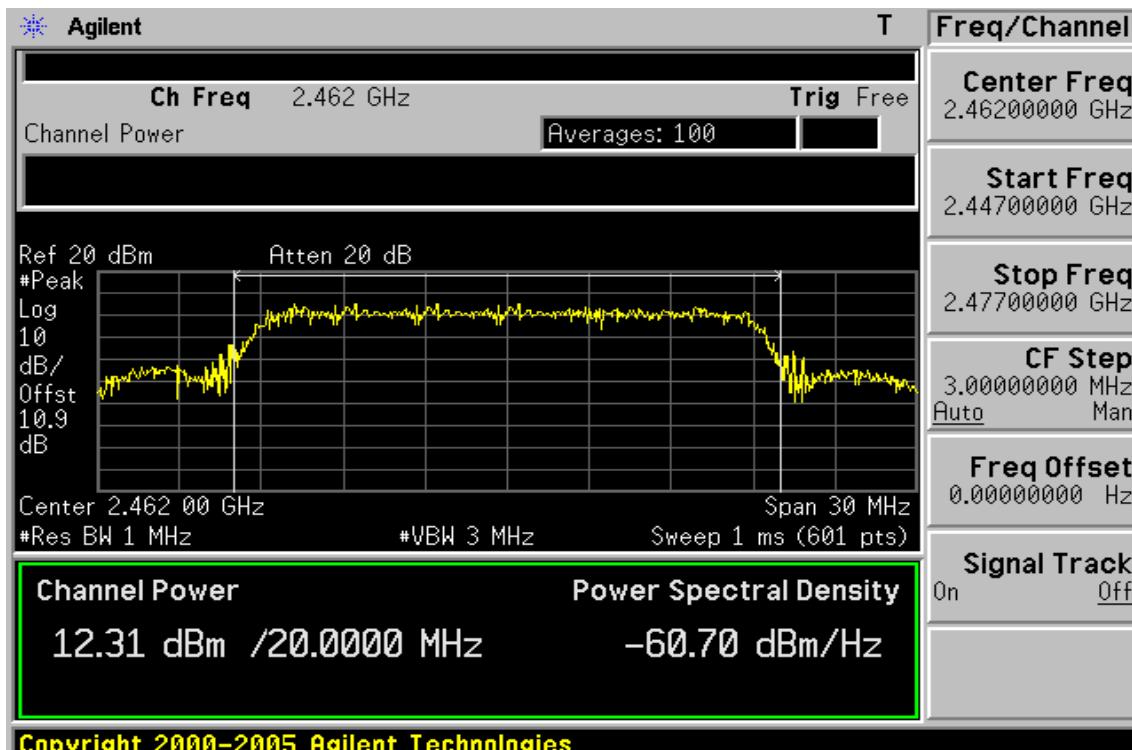
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802.11n_20M (2.4GHz), 14.4Mbps MIMO Chain 0**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

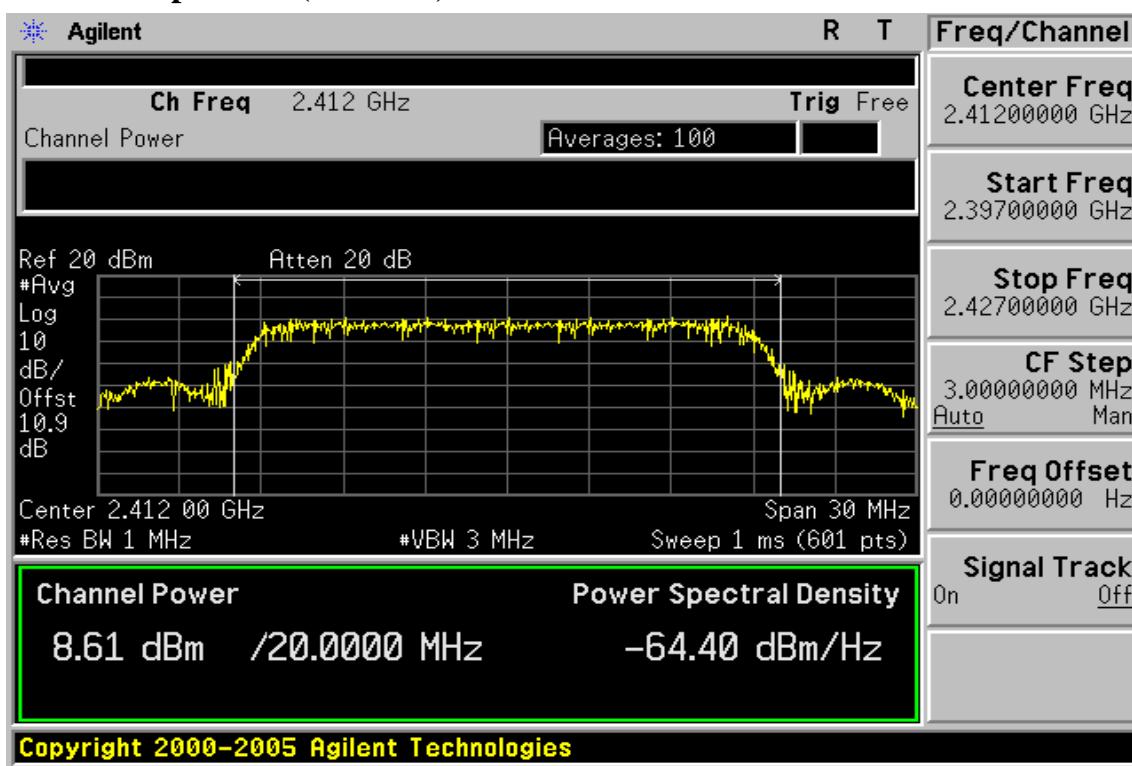
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Peak Power Output Plot (CH High)

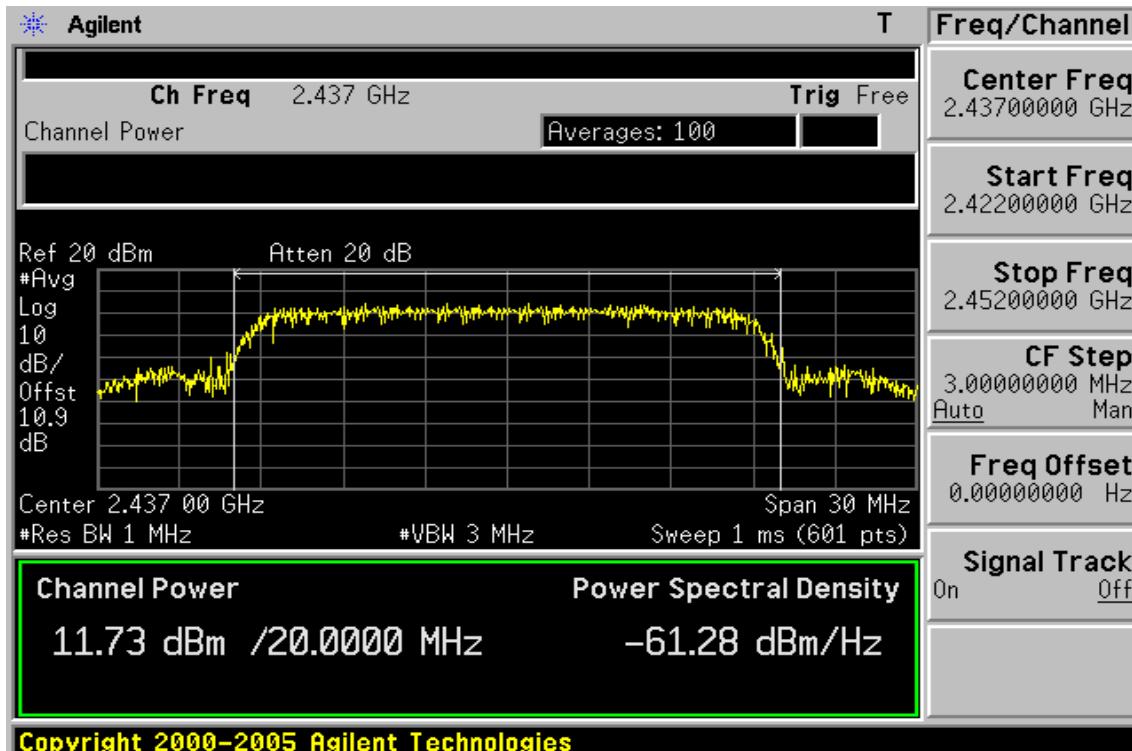
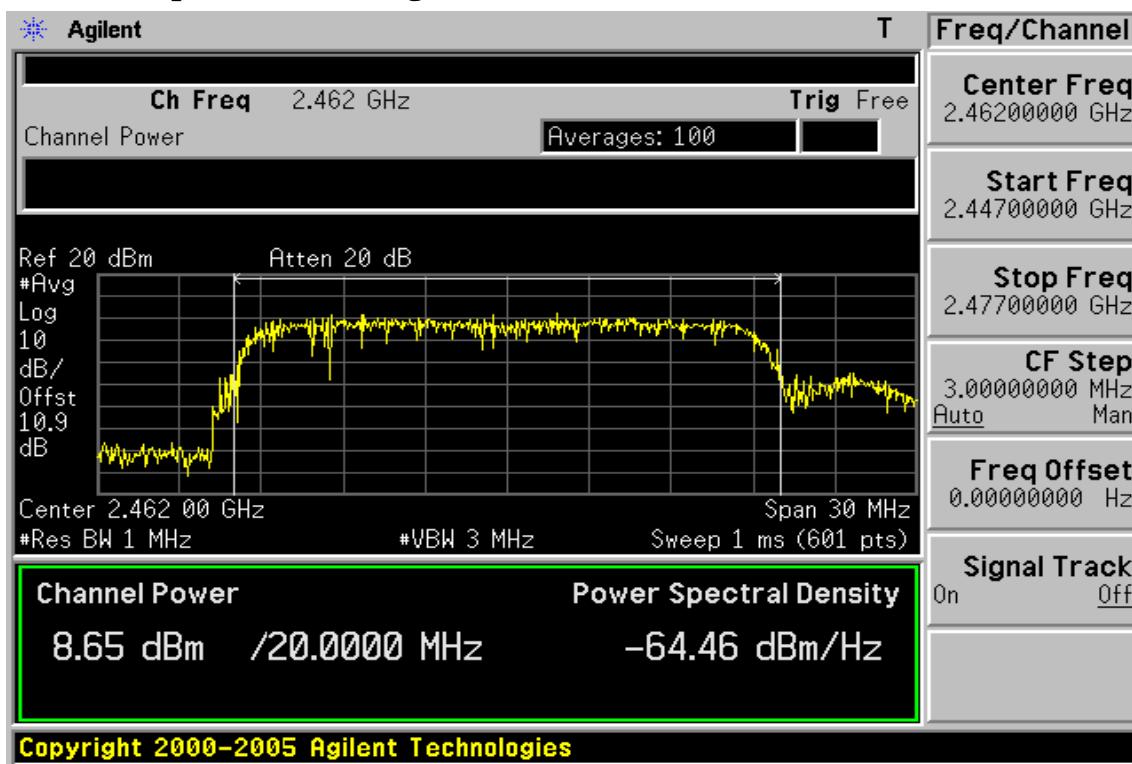


Average Power Output Plot (CH Low)



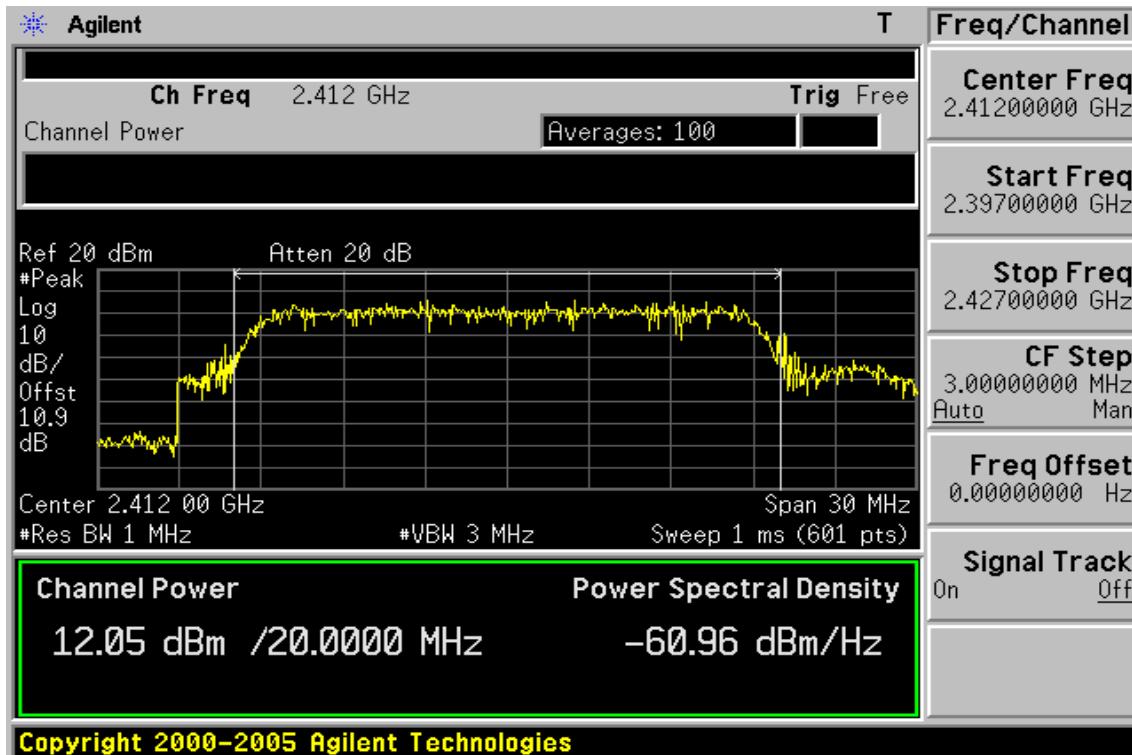
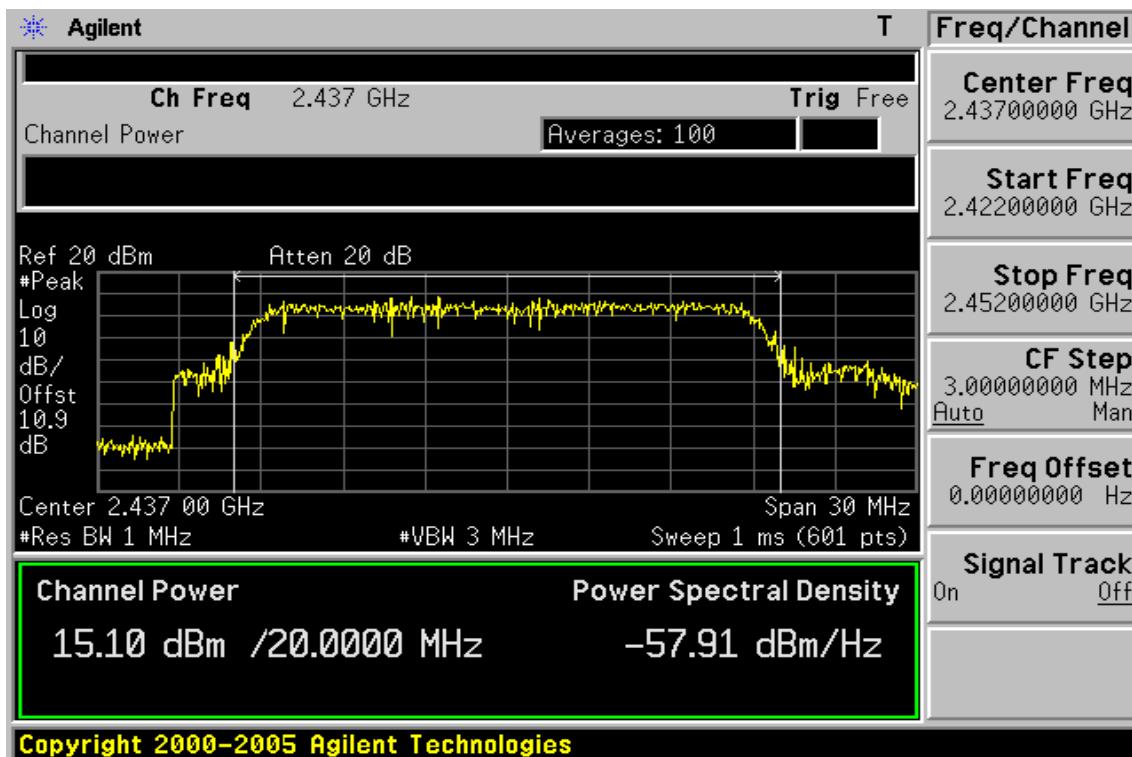
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Average Power Output Plot (CH Mid)

Average Power Output Plot (CH High)


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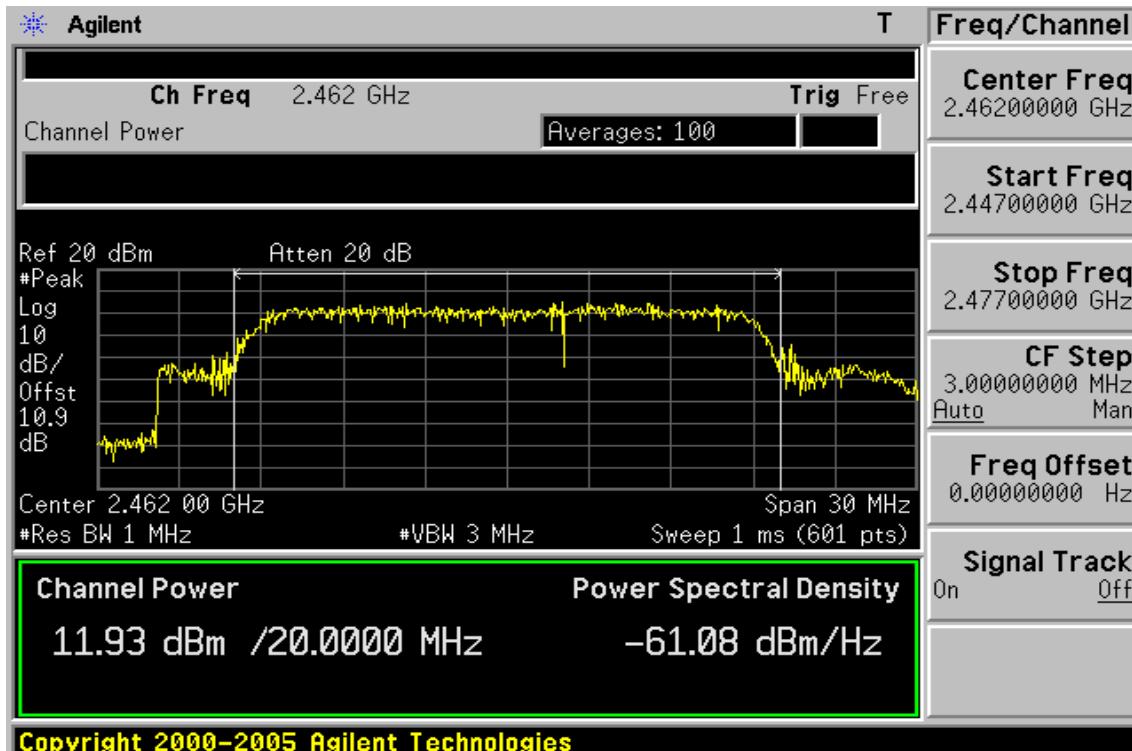
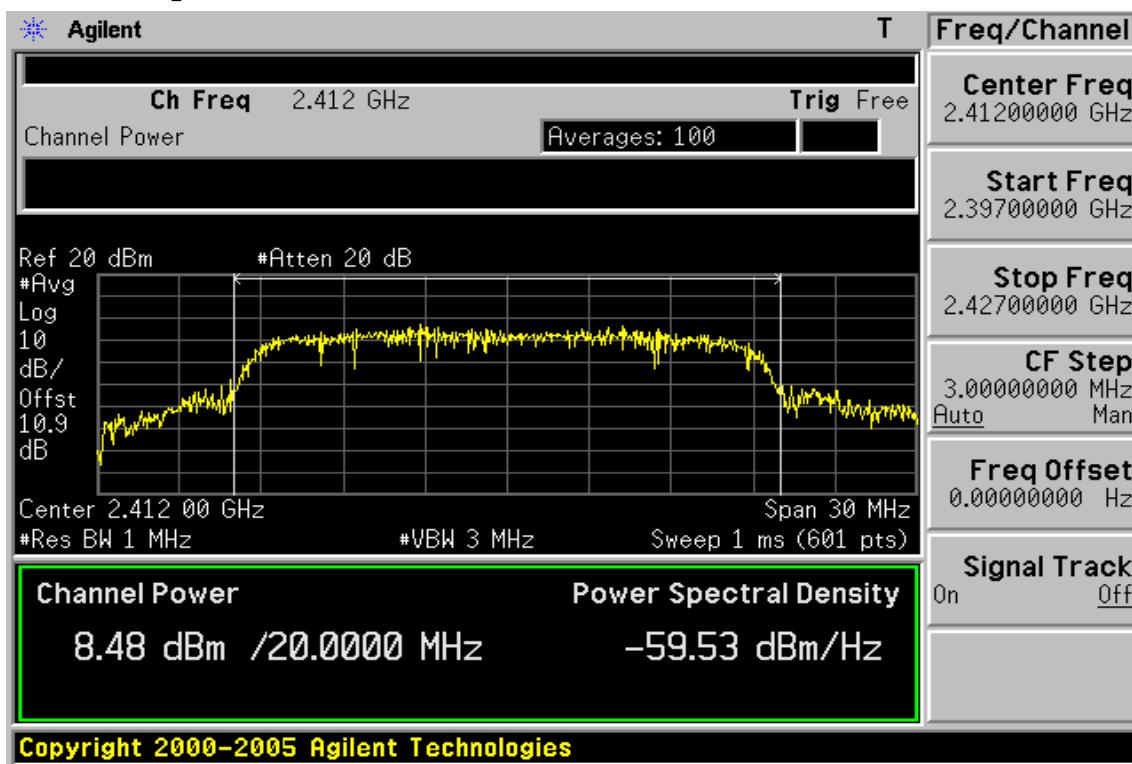
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802.11n_20M (2.4GHz), 14.4Mbps MIMO Chain 1**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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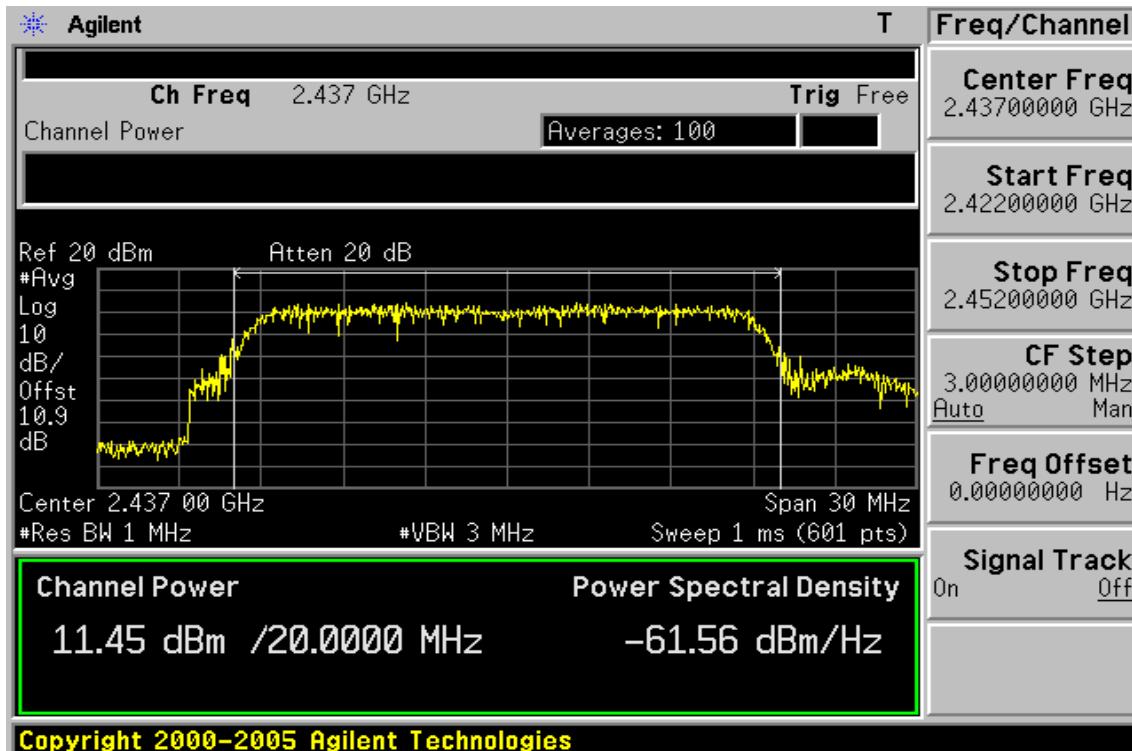
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Peak Power Output Plot (CH High)**Average Power Output Plot (CH Low)**

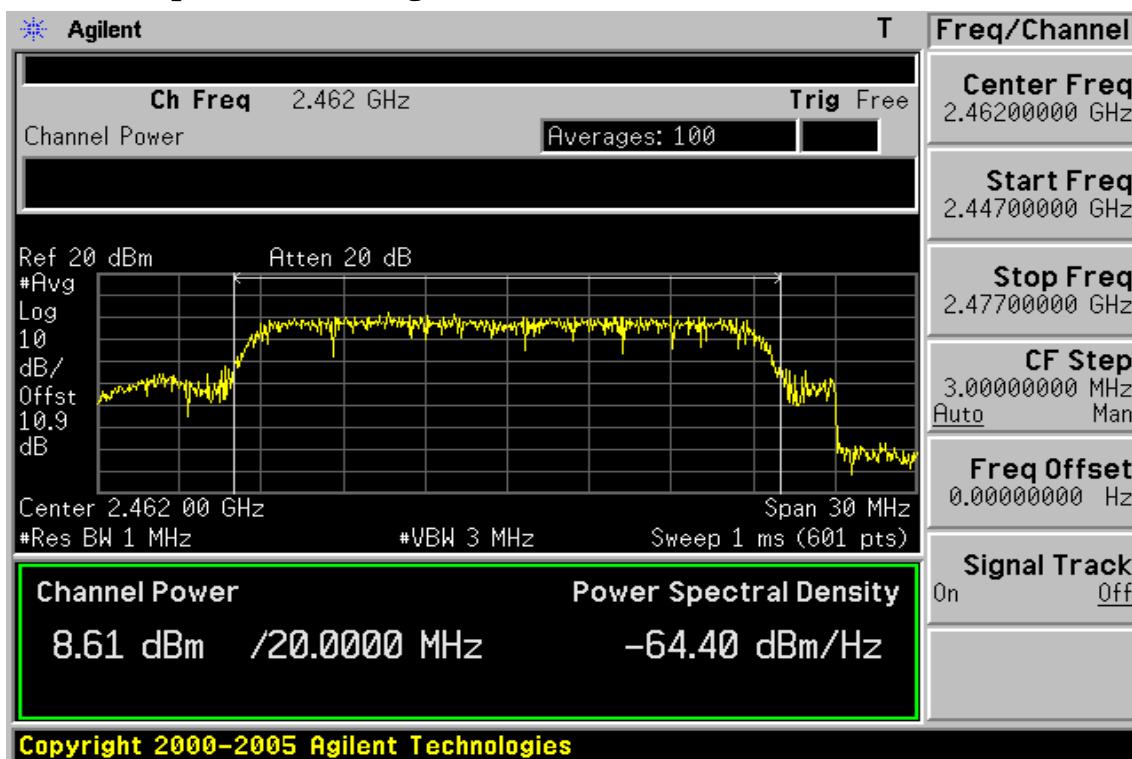
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



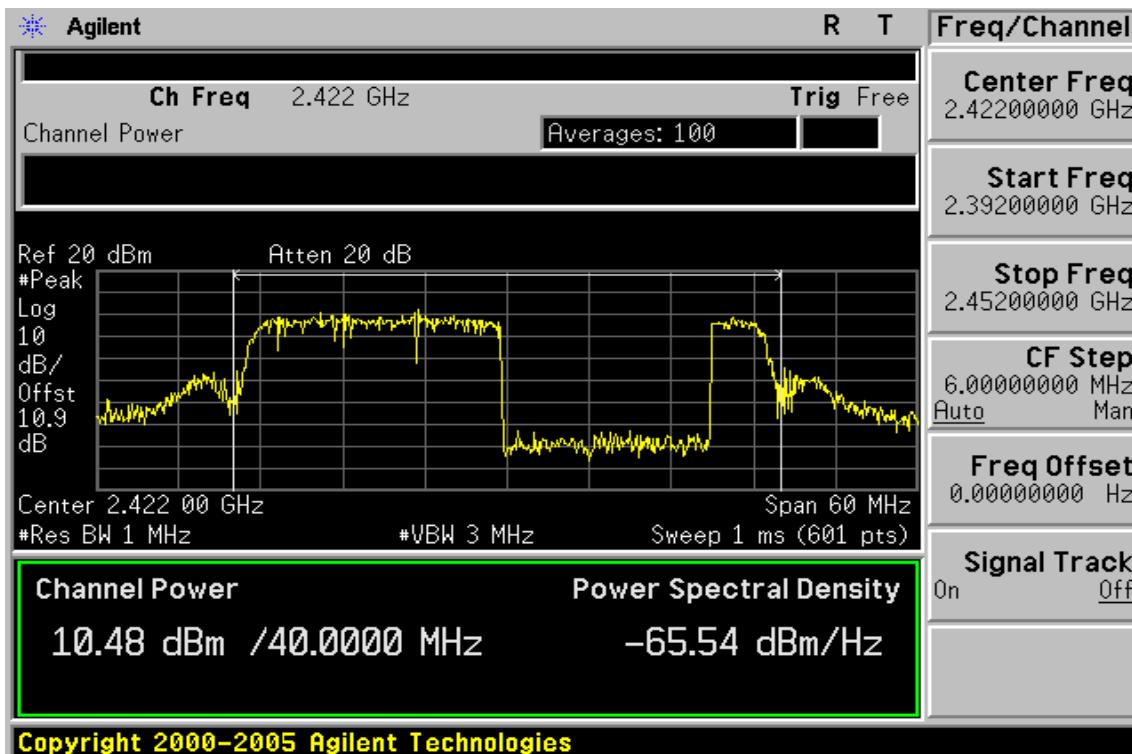
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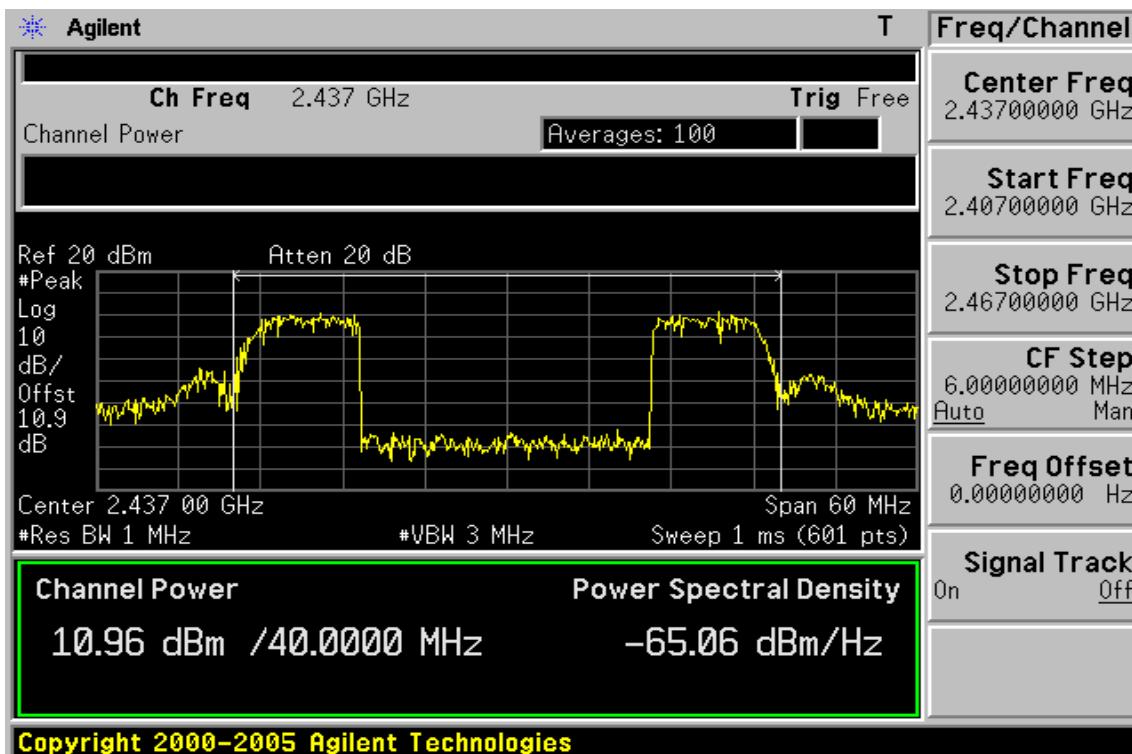
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802.11n_40M (2.4GHz), 30Mbps MIMO Chain 0

Peak Power Output Plot (CH Low)



Peak Power Output Plot (CH Mid)

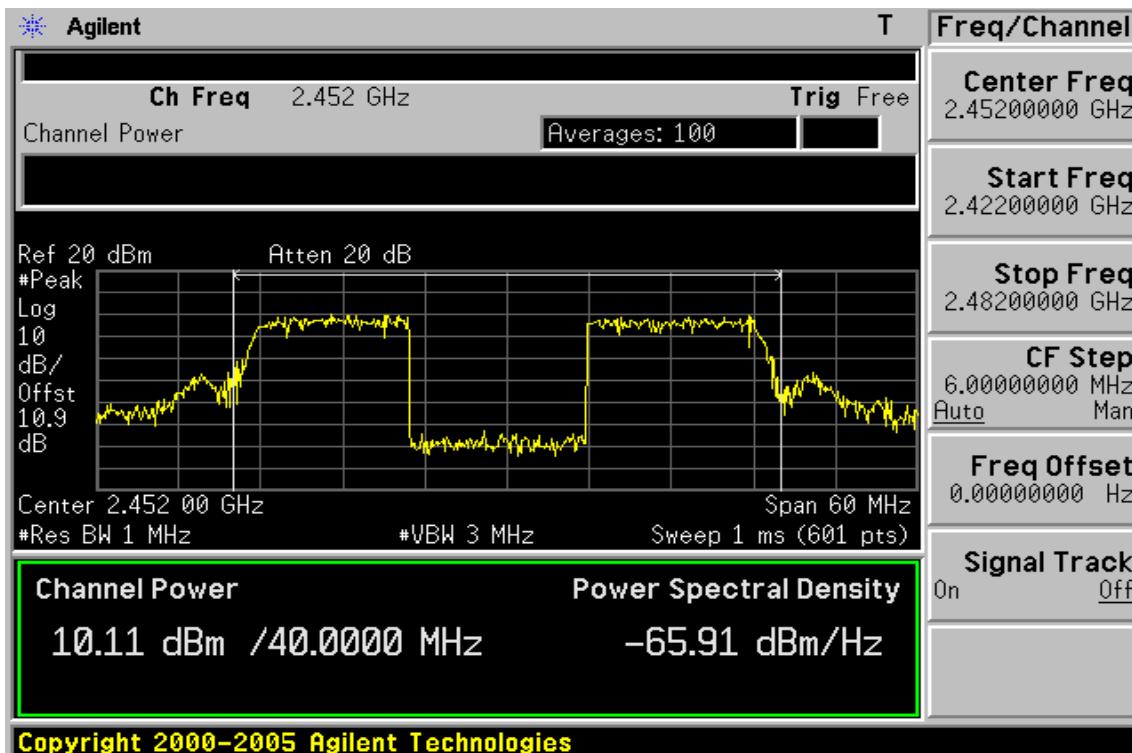


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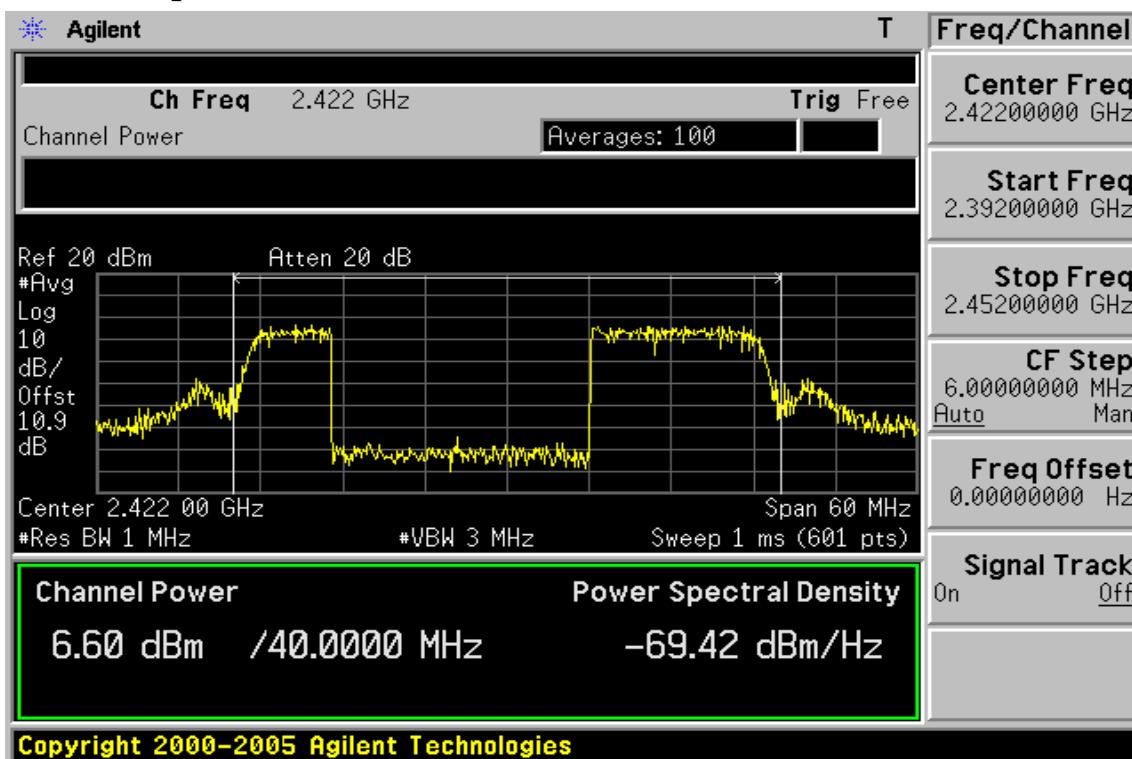
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Peak Power Output Plot (CH High)

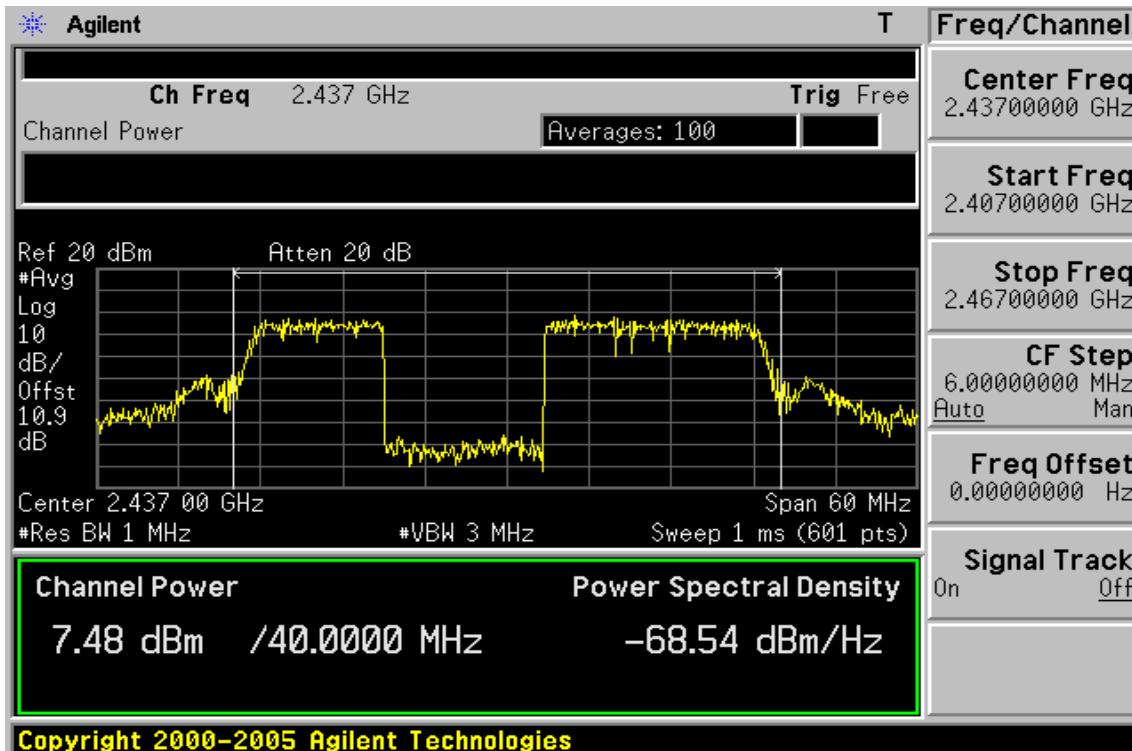
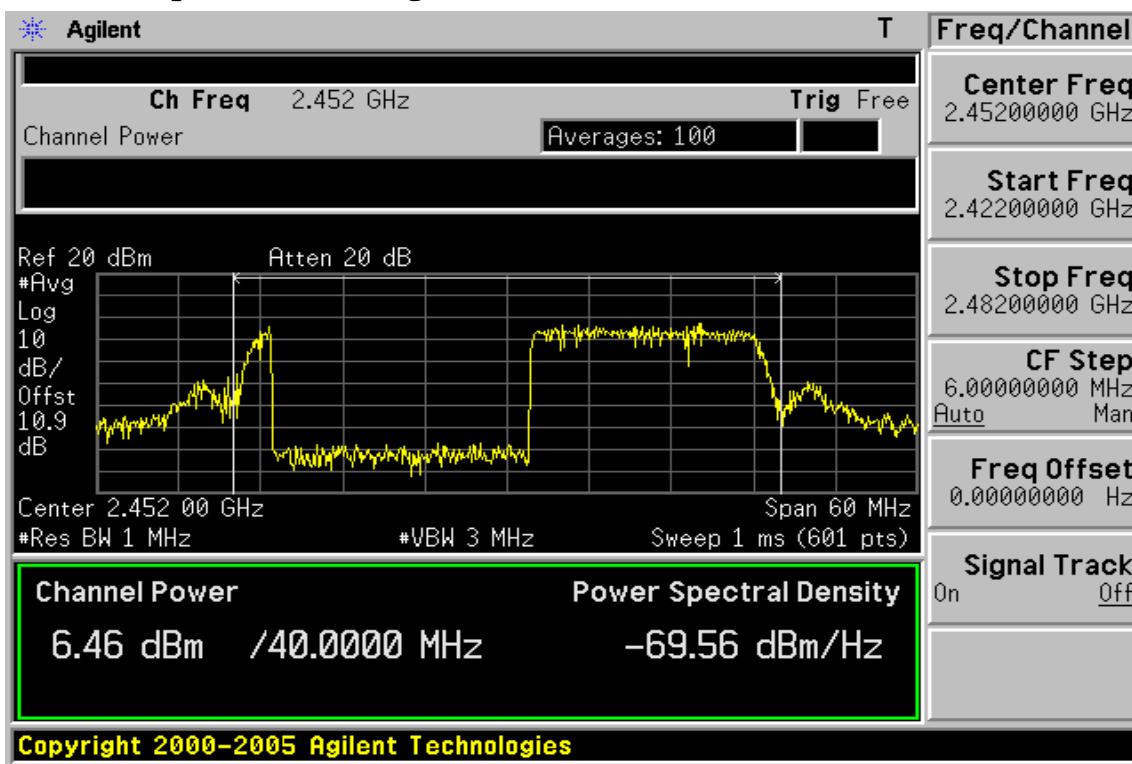


Average Power Output Plot (CH Low)



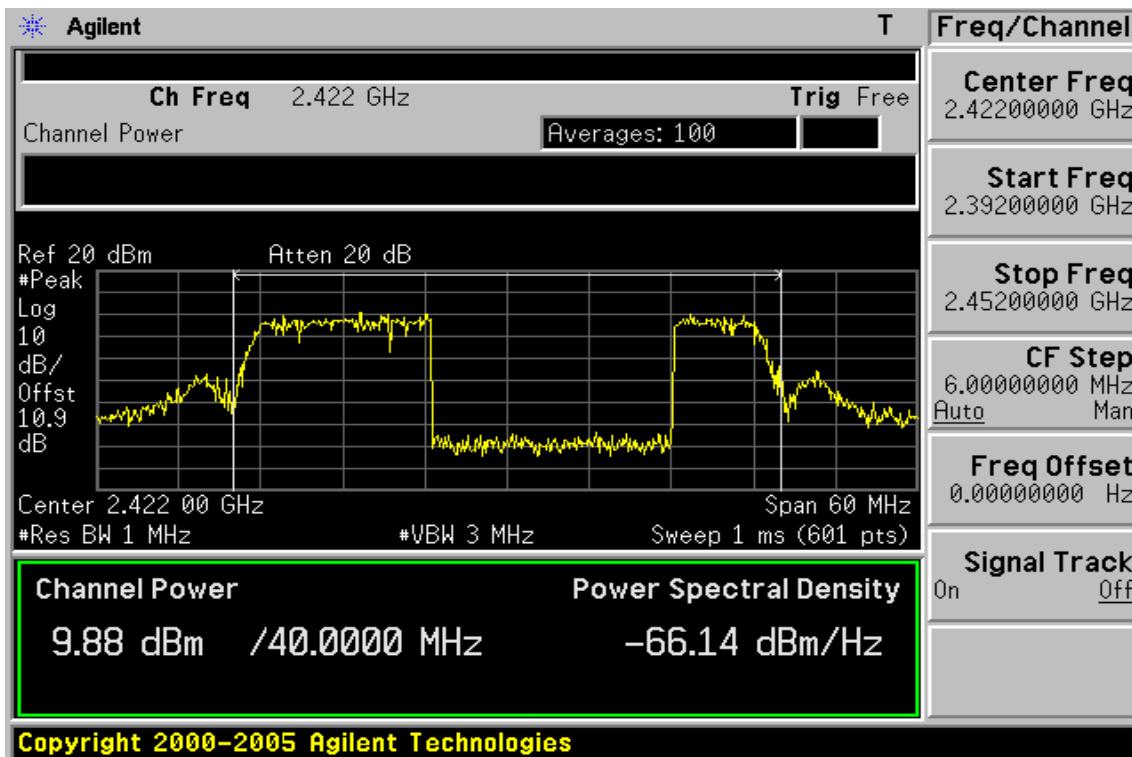
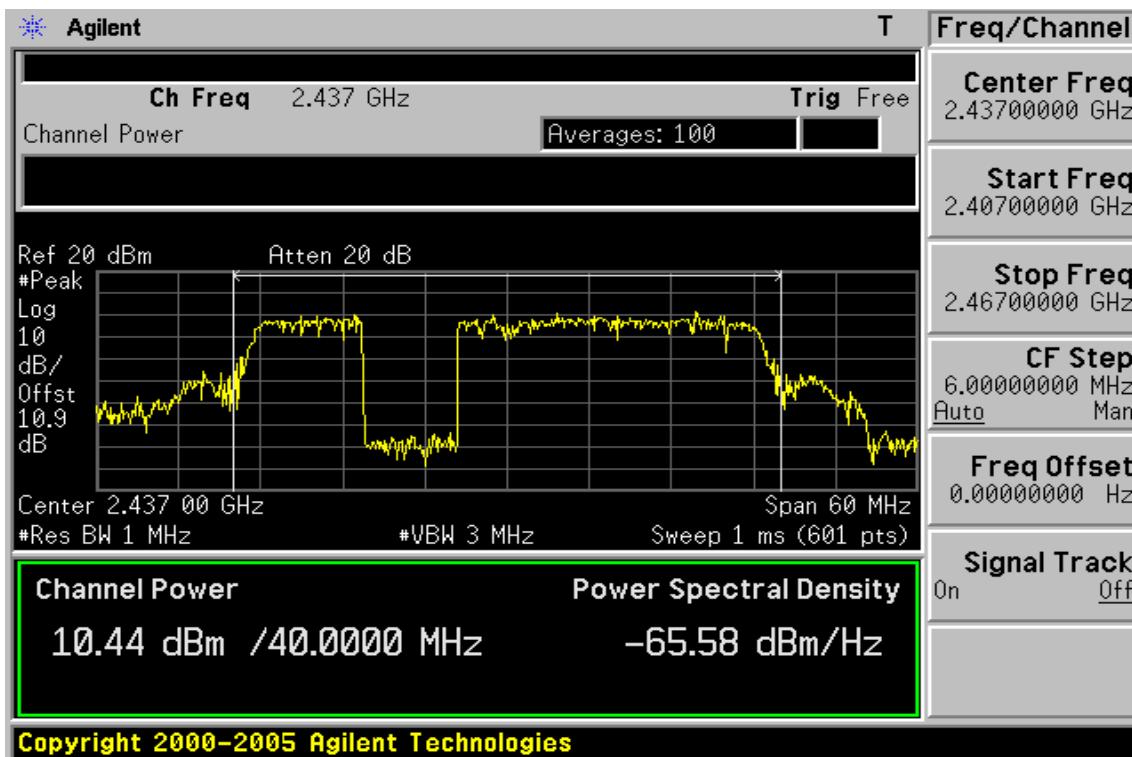
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Average Power Output Plot (CH Mid)

Average Power Output Plot (CH High)


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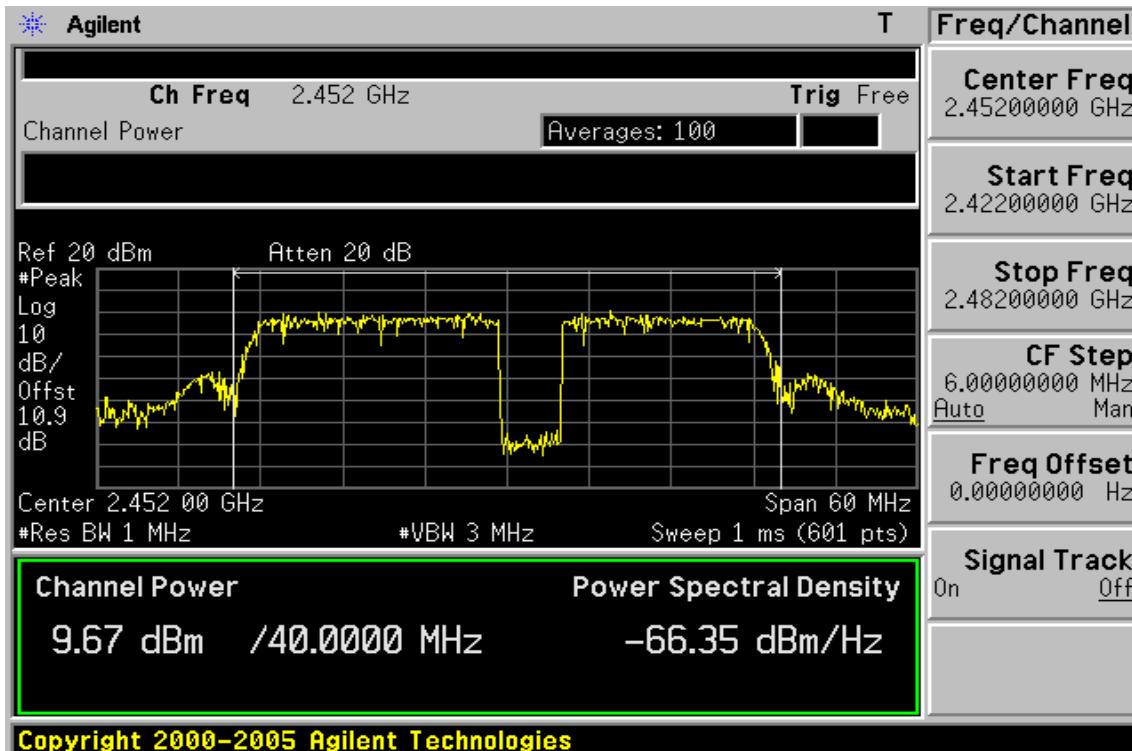
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802.11n_40M (2.4GHz), 30Mbps MIMO Chain 1**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

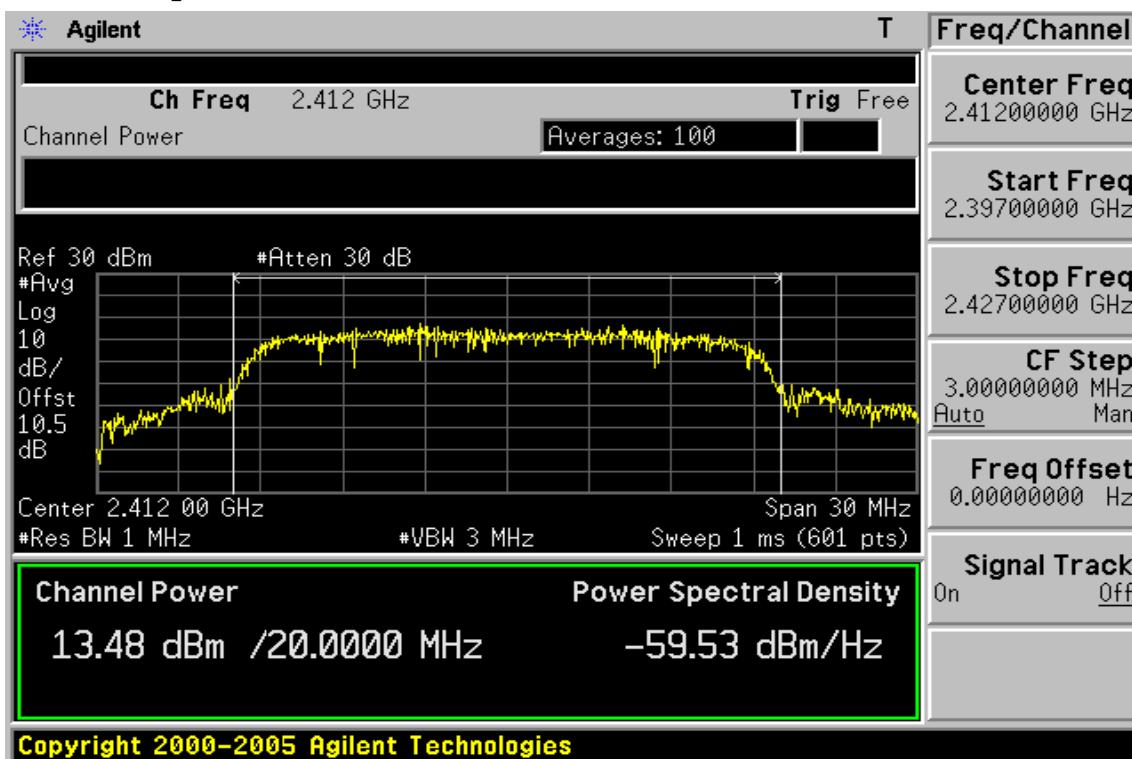
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Peak Power Output Plot (CH High)



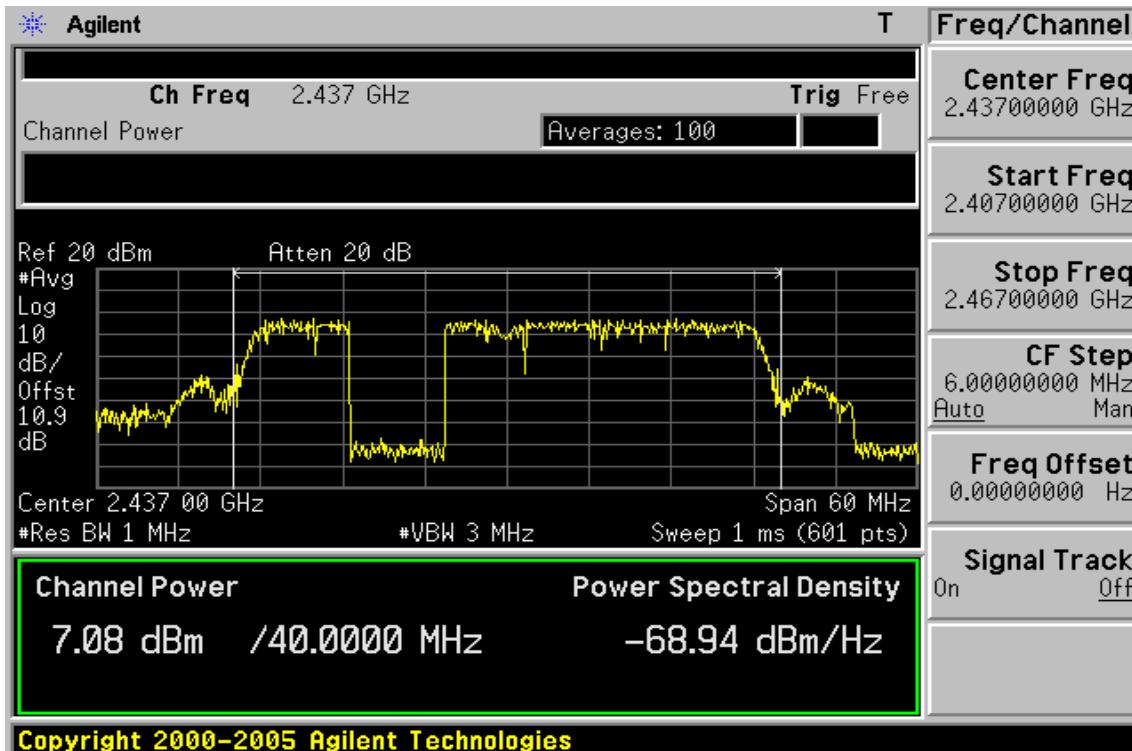
Average Power Output Plot (CH Low)



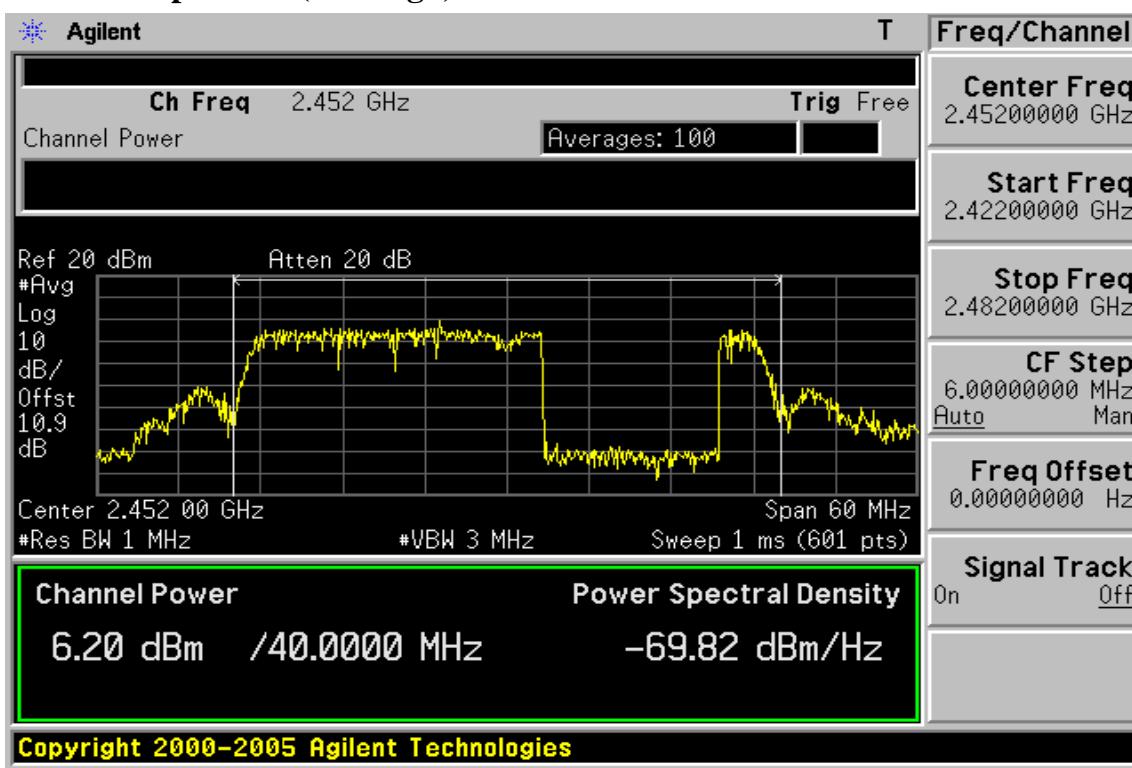
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Average Power Output Plot (CH Mid)

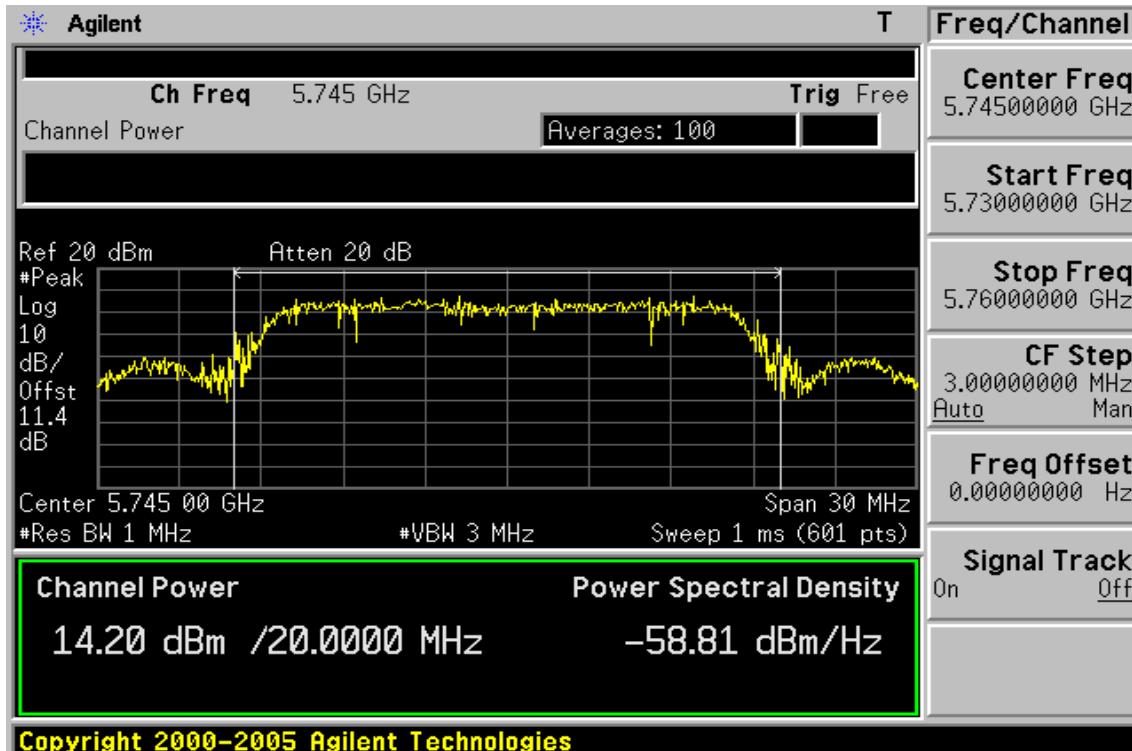
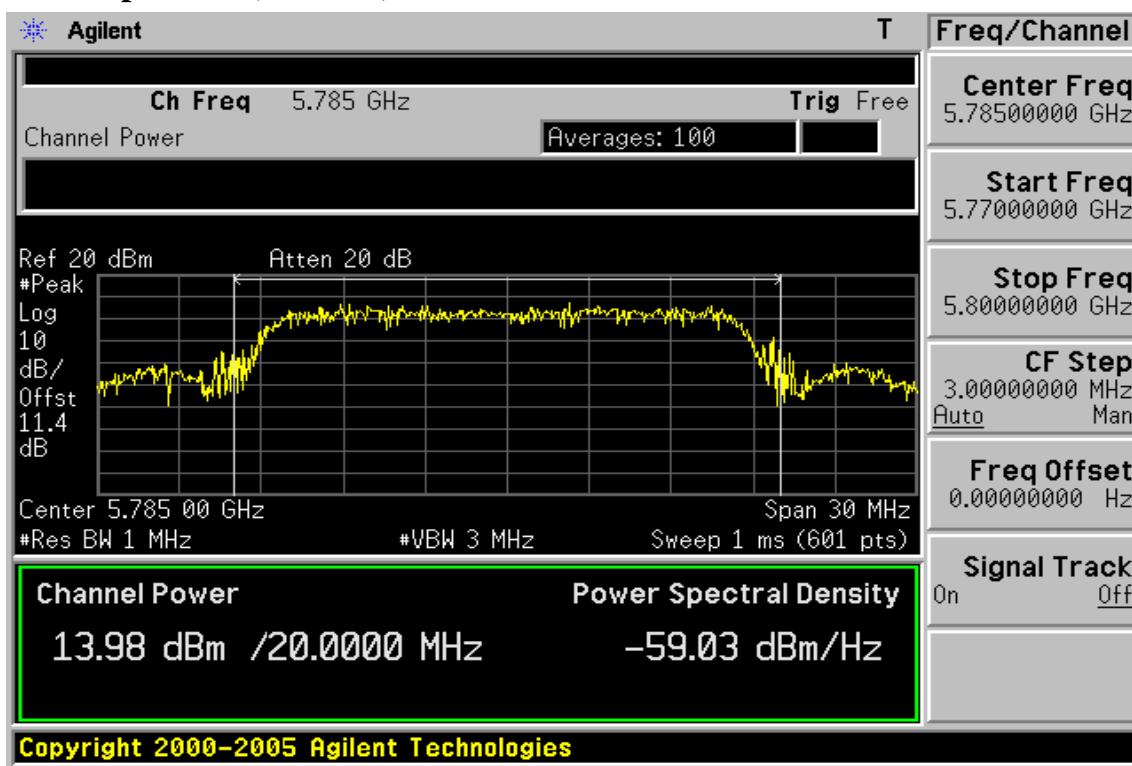


Average Power Output Plot (CH High)



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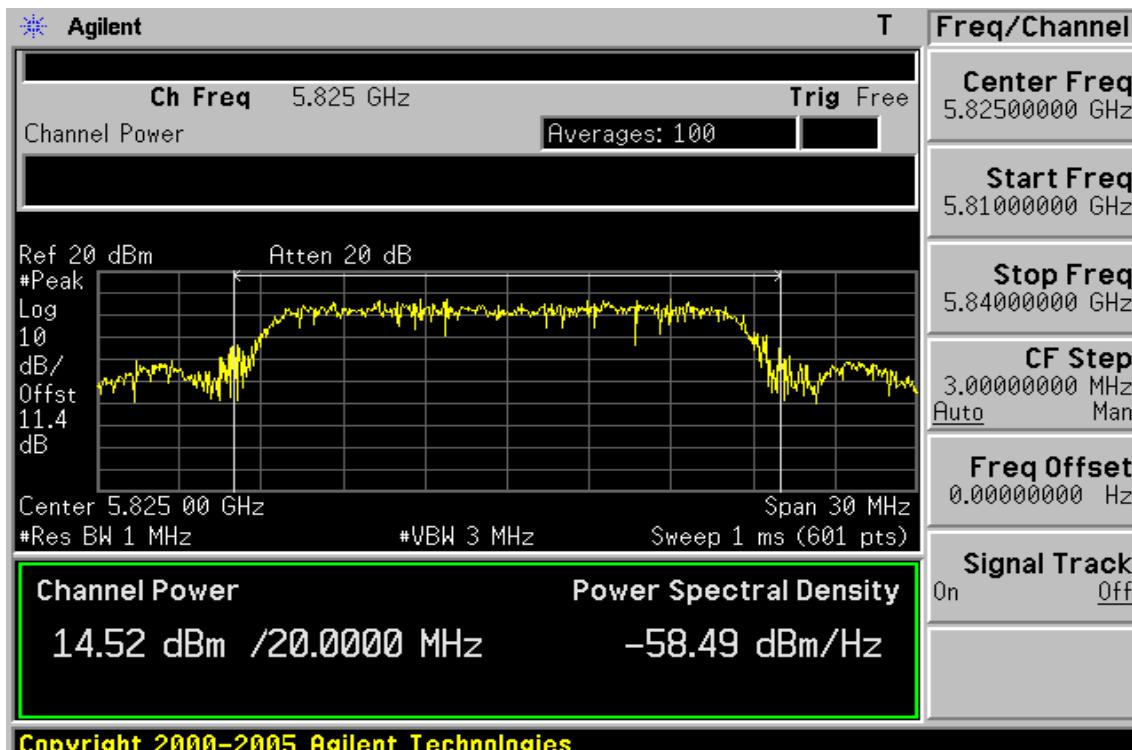
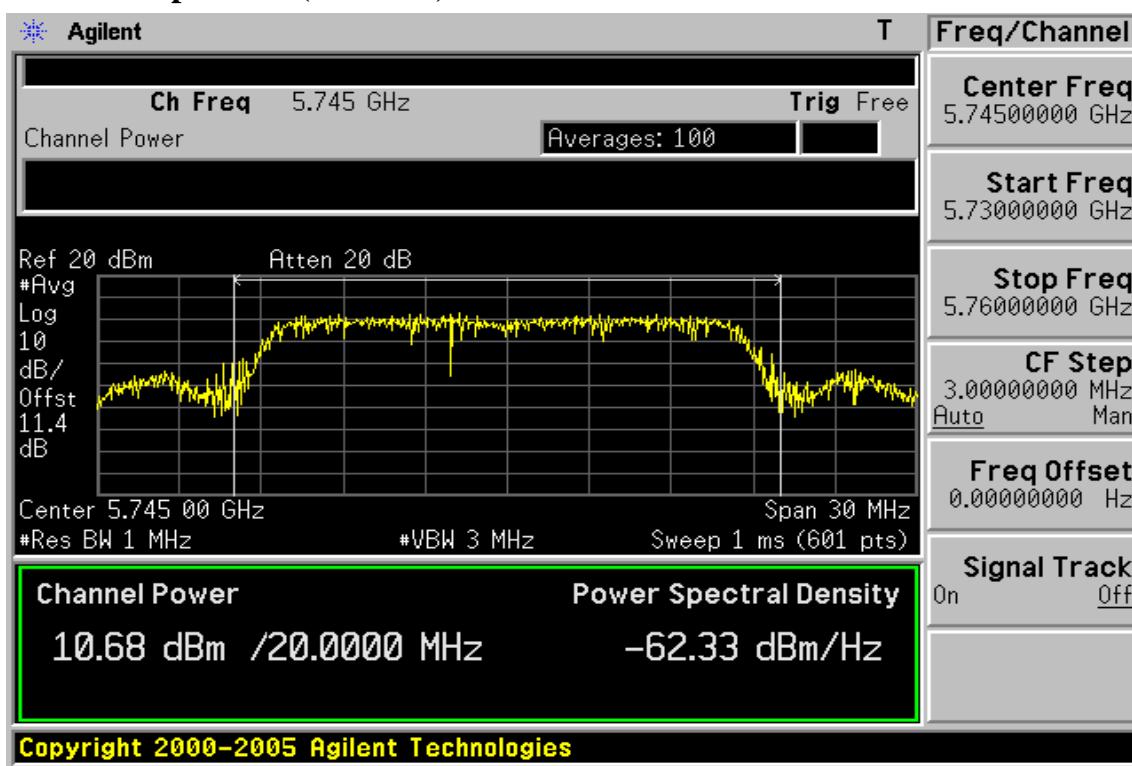
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802.11a, 6Mbps**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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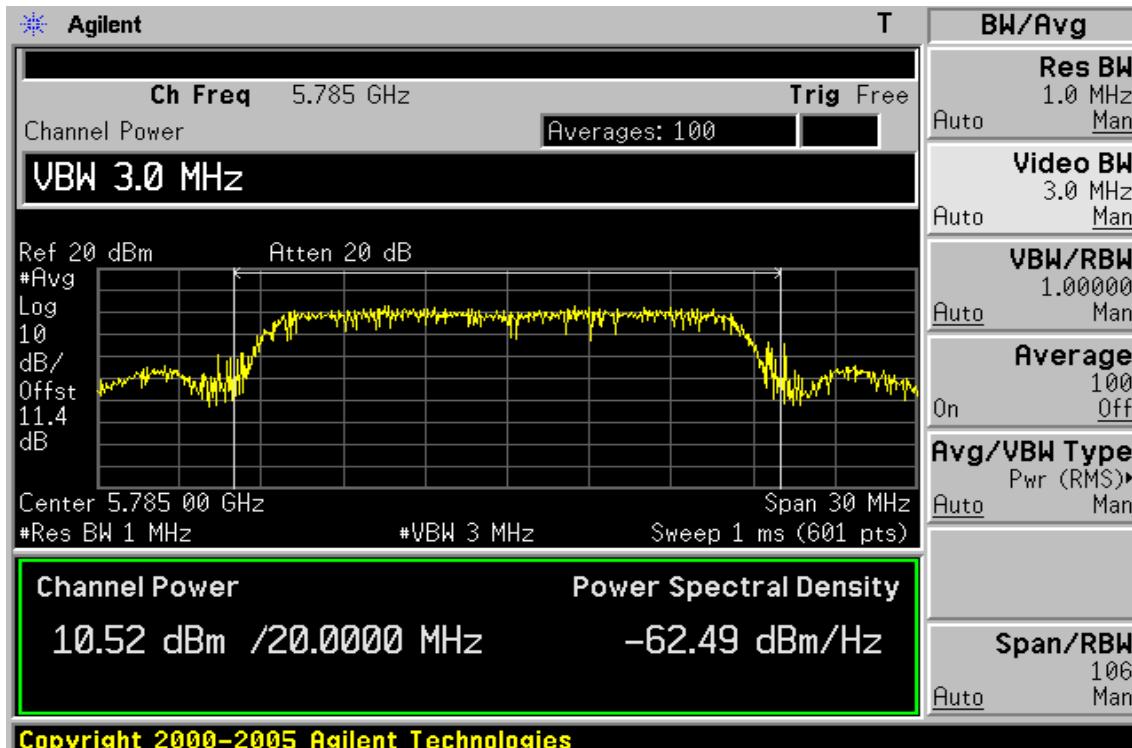
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Peak Power Output Plot (CH High)

Average Power Output Plot (CH Low)


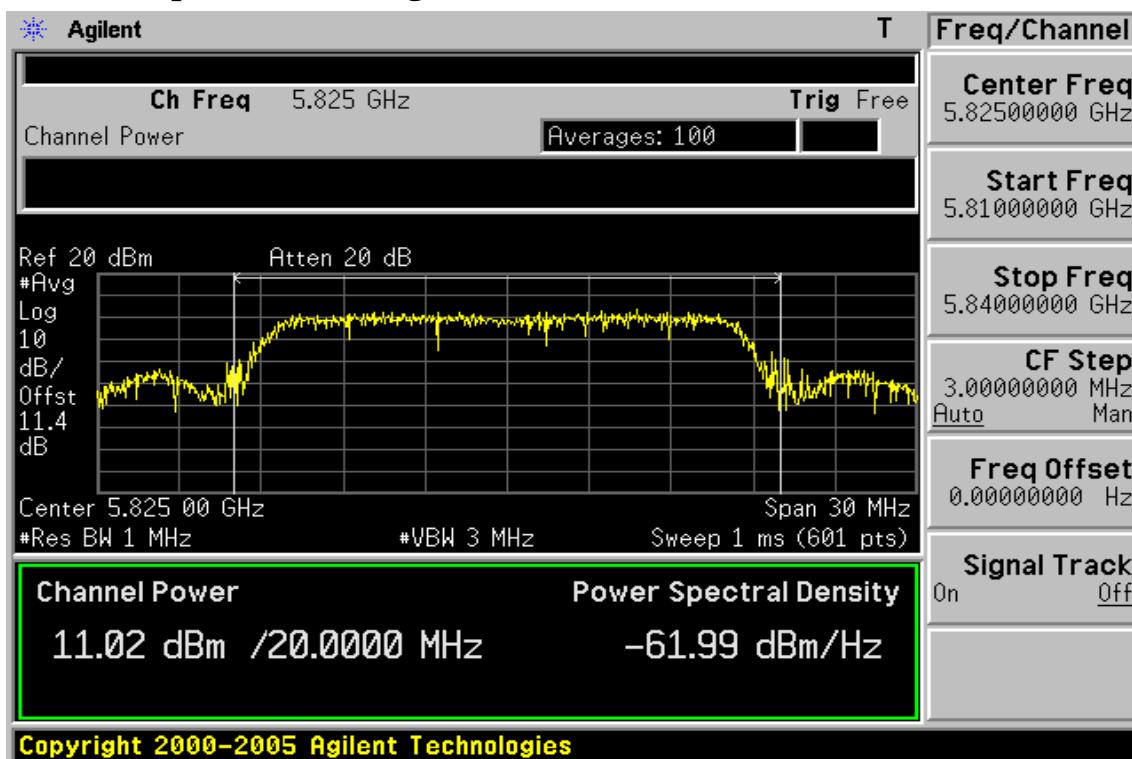
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)

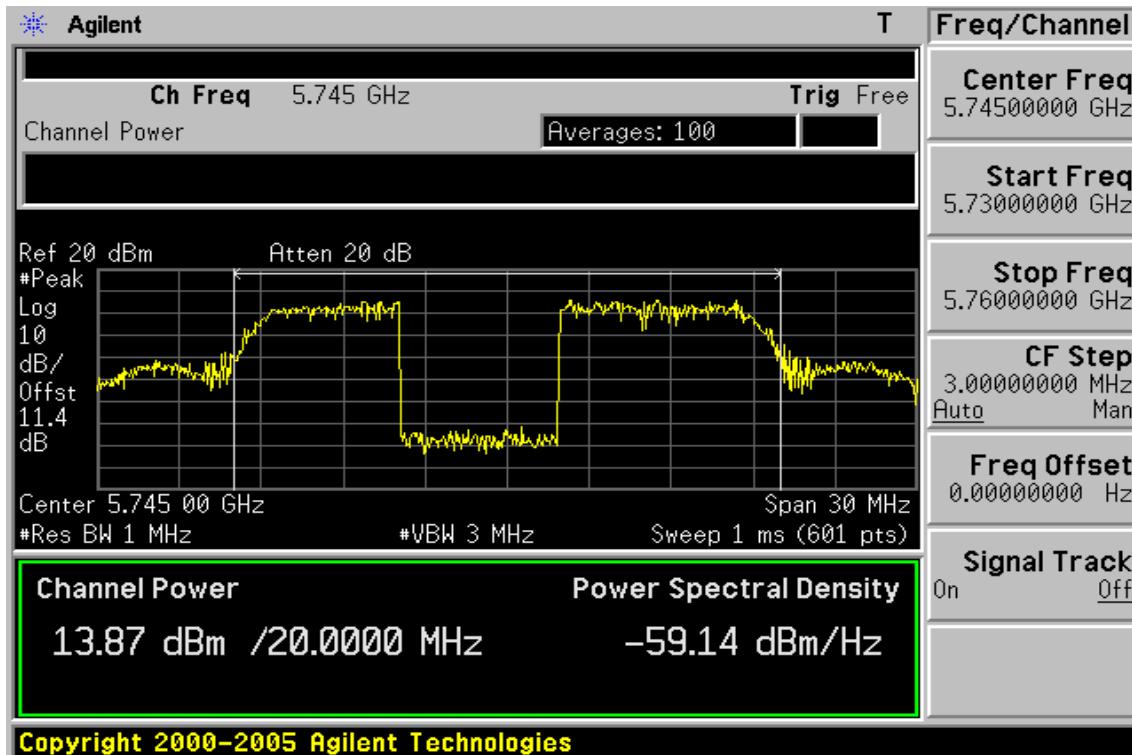


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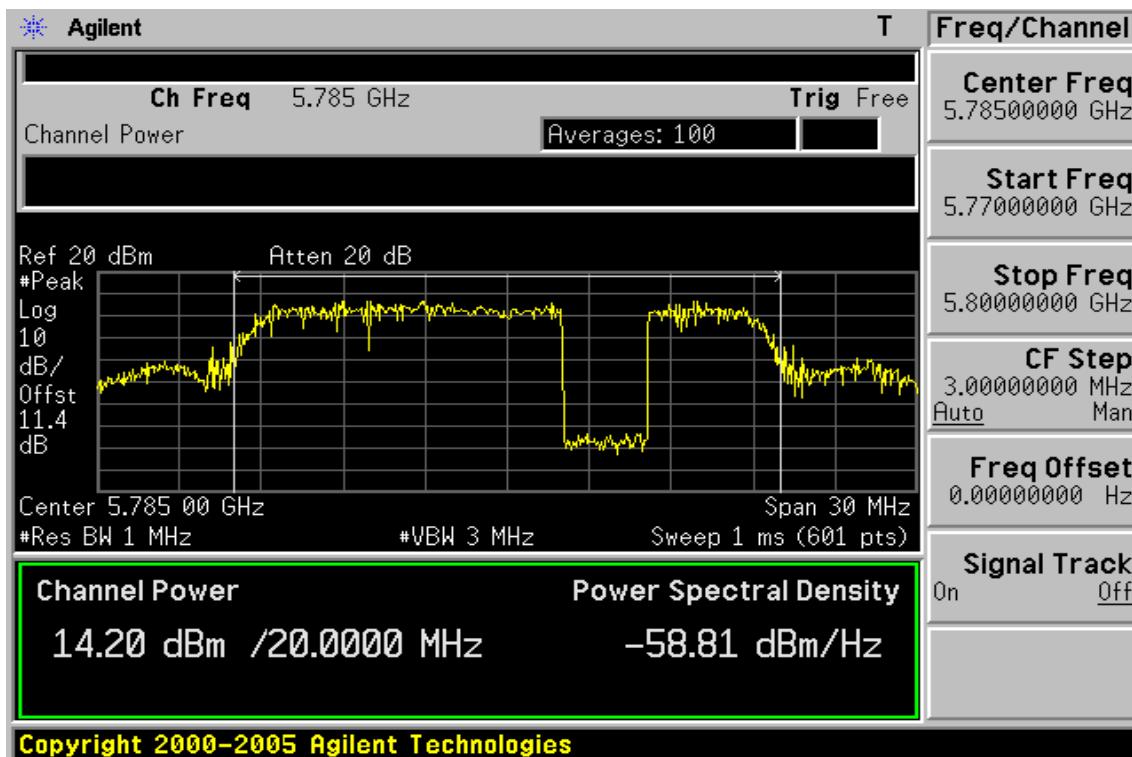
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802.11n_20M (5GHz), 14.4Mbps MIMO Chain 0

Peak Power Output Plot (CH Low)



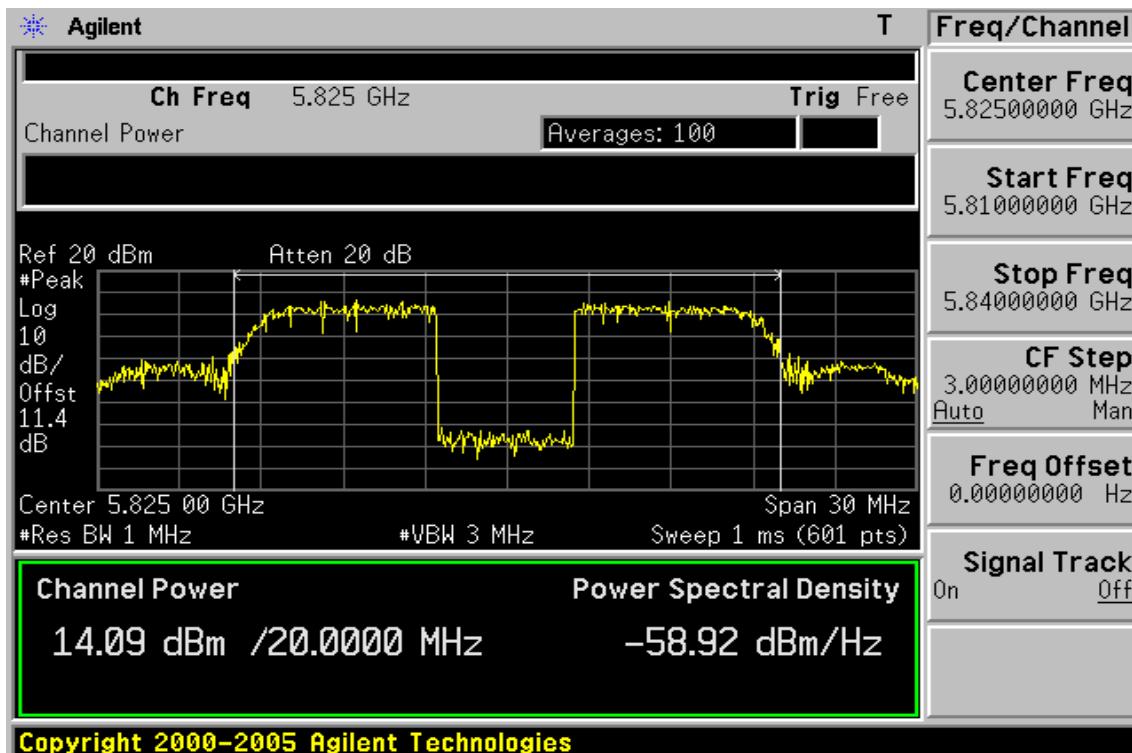
Peak Power Output Plot (CH Mid)



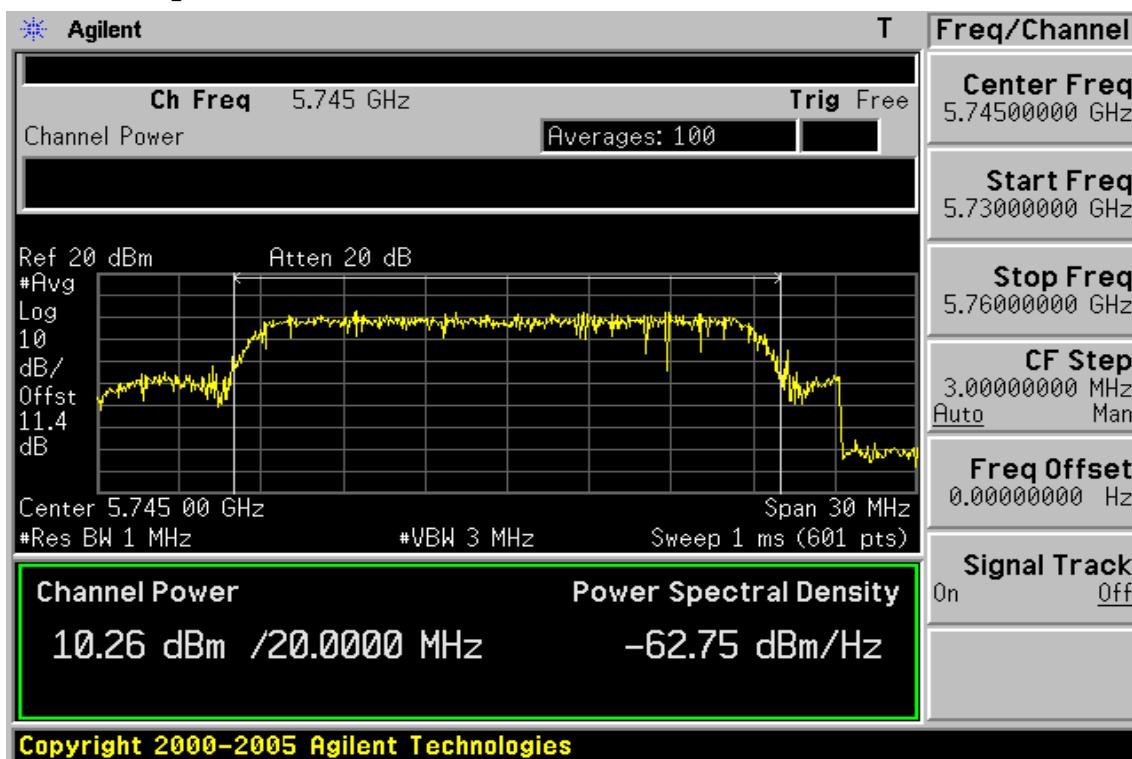
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Peak Power Output Plot (CH High)

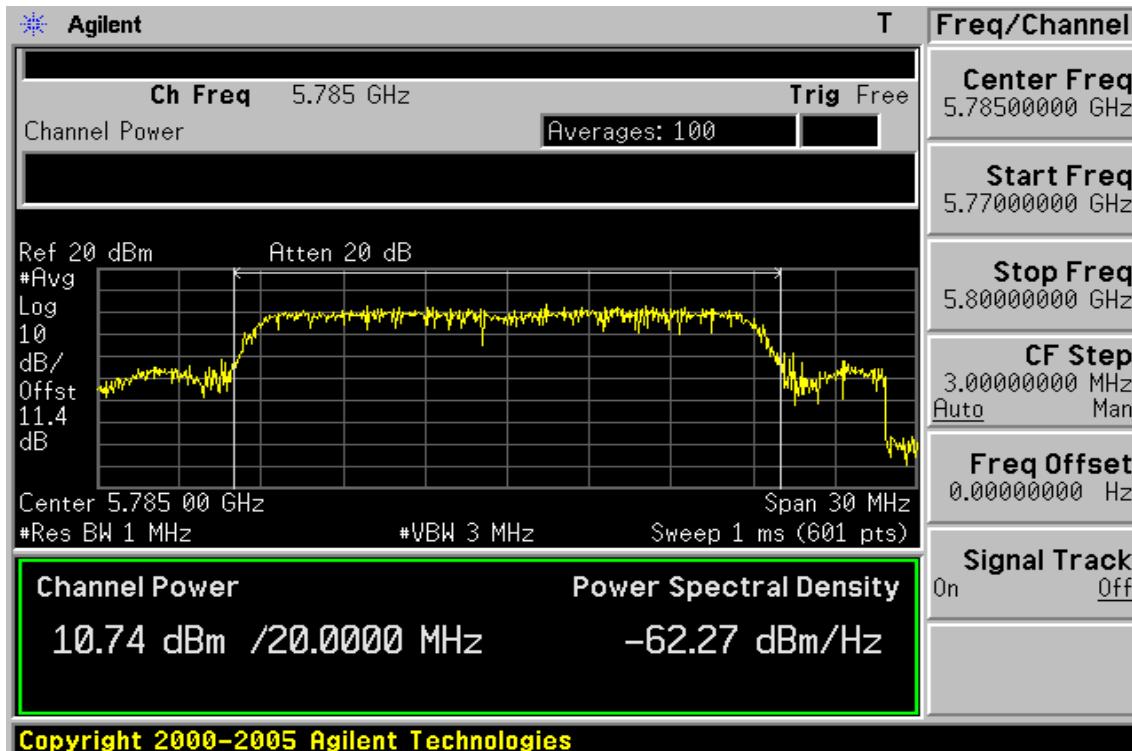
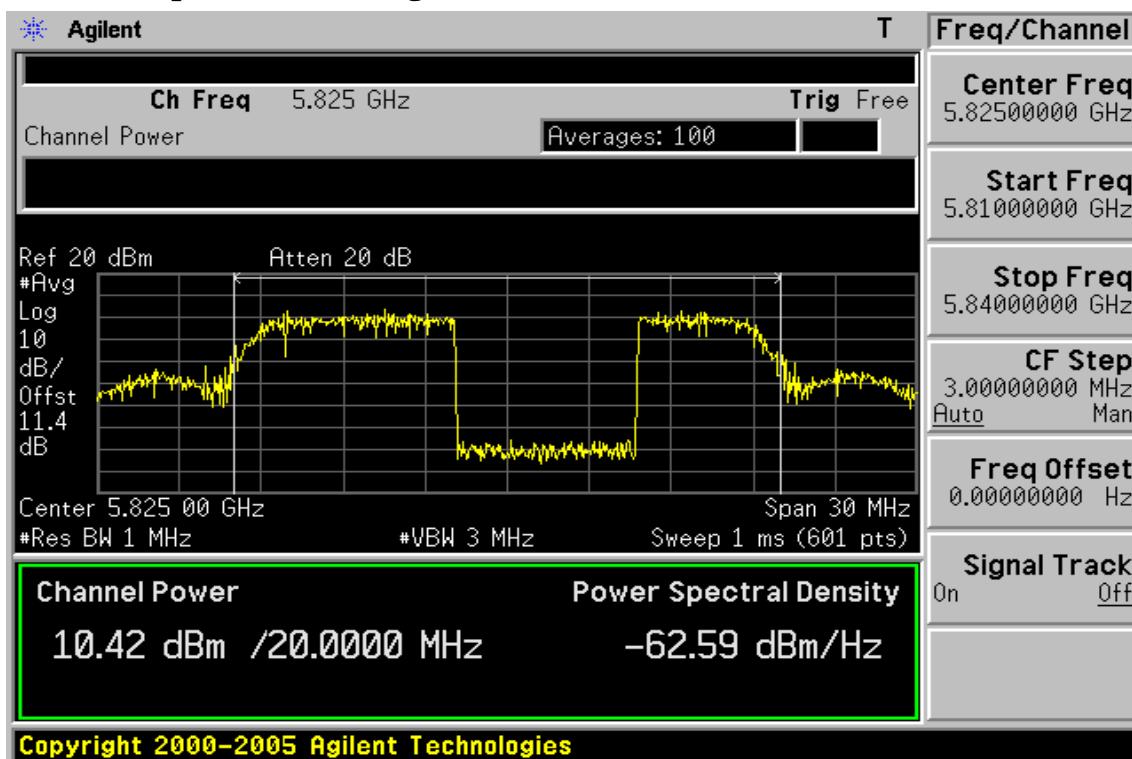


Average Power Output Plot (CH Low)



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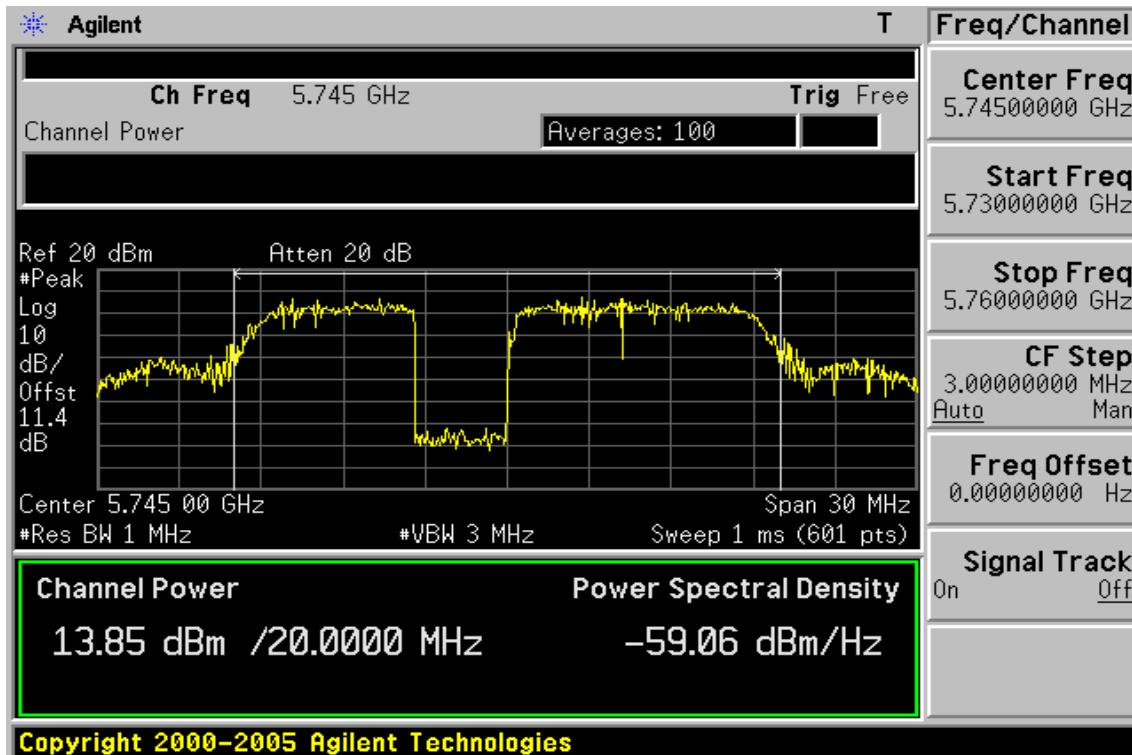
Average Power Output Plot (CH Mid)**Average Power Output Plot (CH High)**

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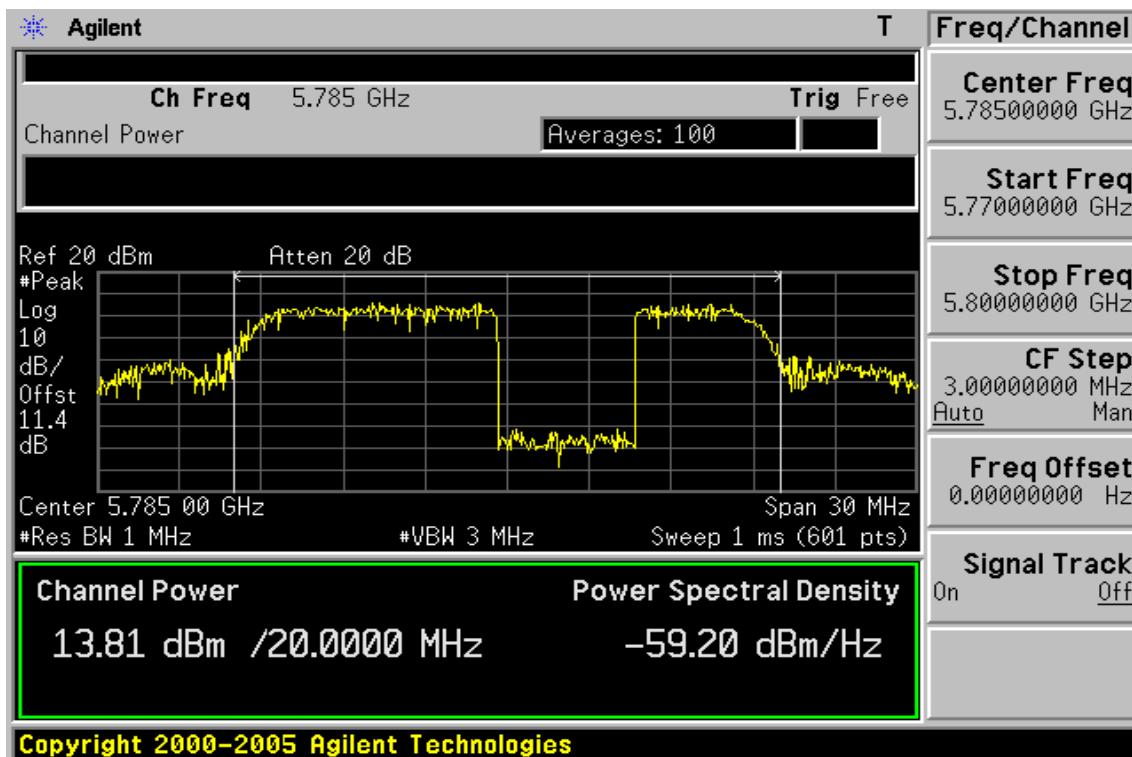
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802.11n_20M (5GHz), 14.4Mbps MIMO Chain 1

Peak Power Output Plot (CH Low)



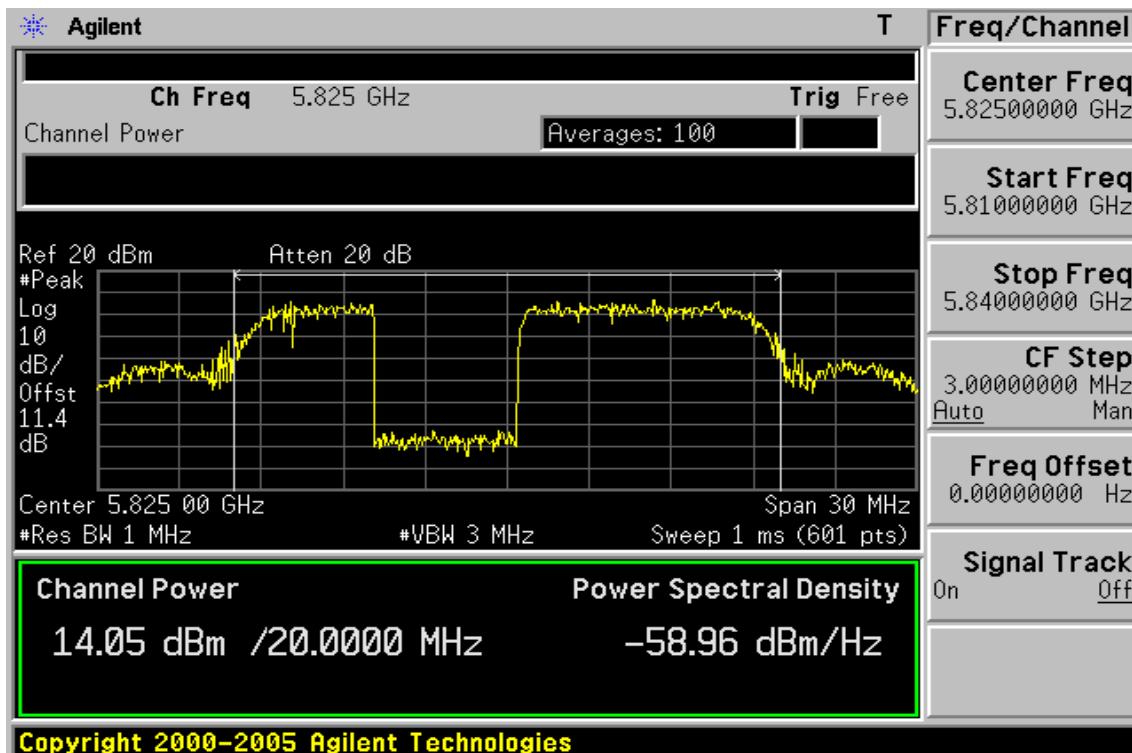
Peak Power Output Plot (CH Mid)



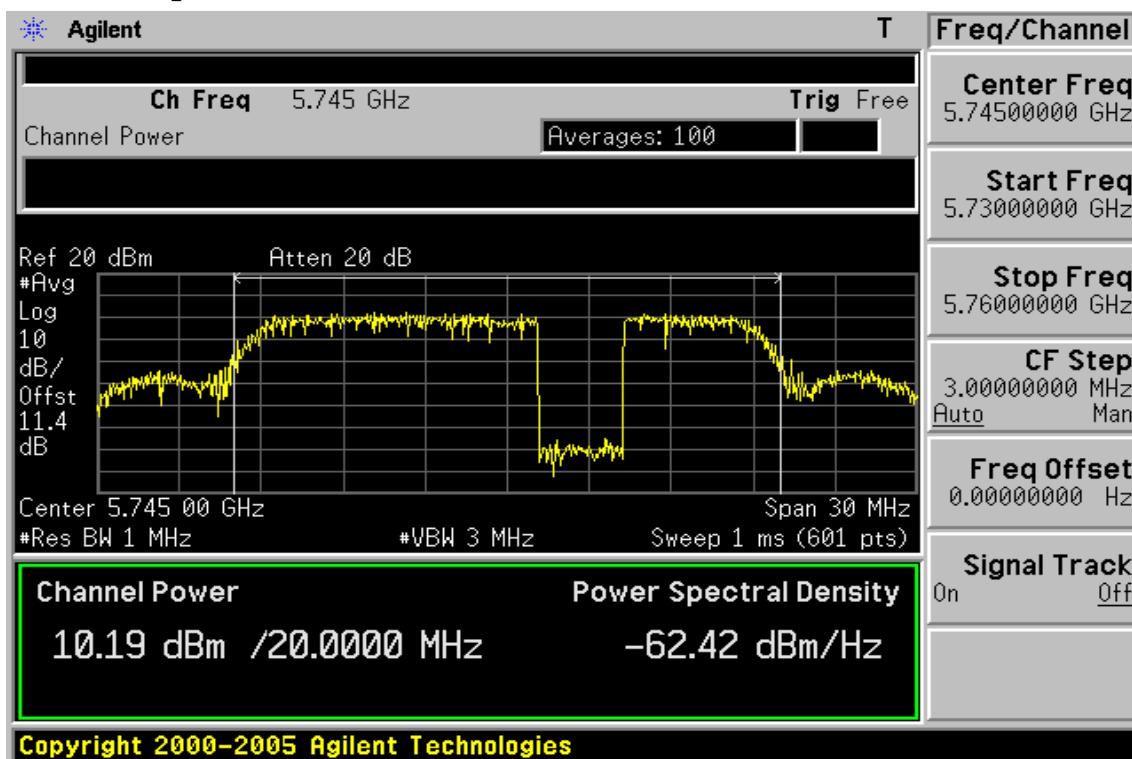
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Peak Power Output Plot (CH High)



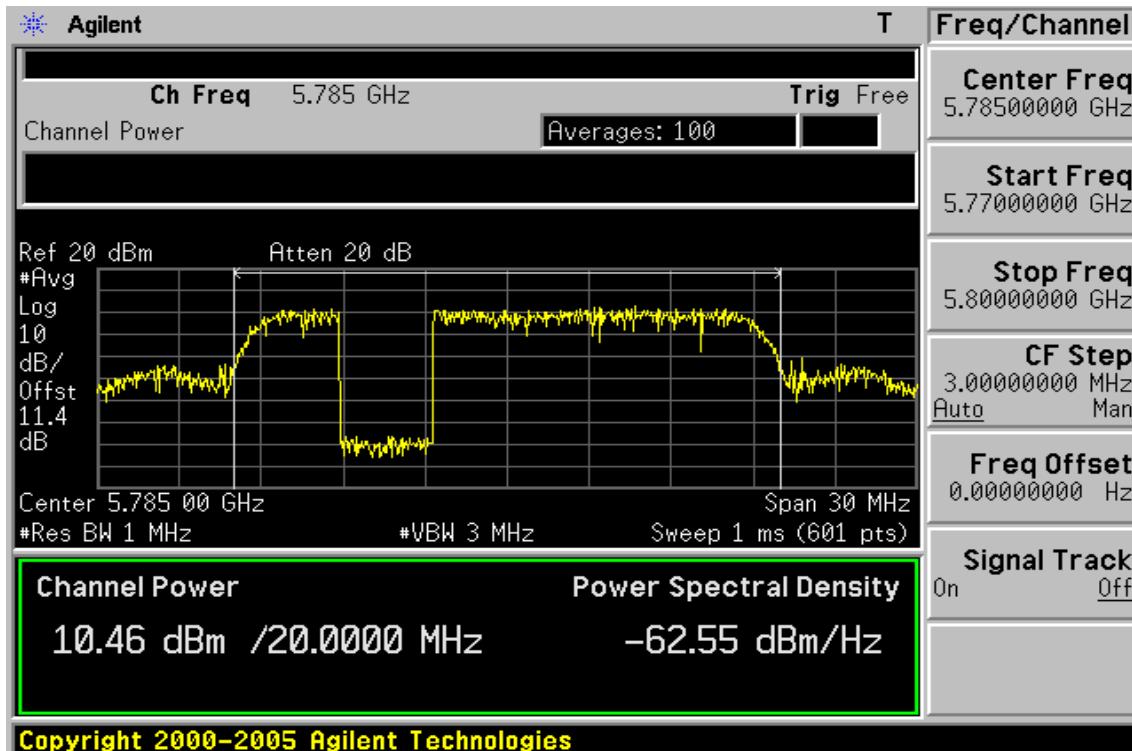
Average Power Output Plot (CH Low)



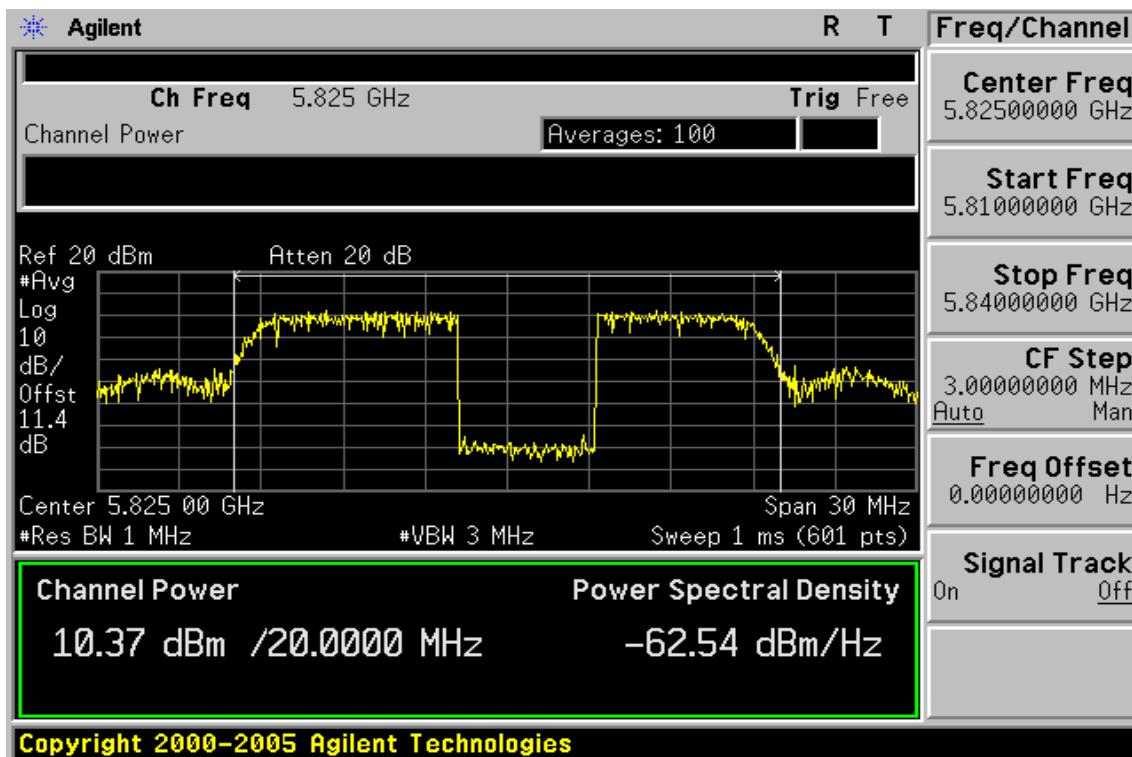
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



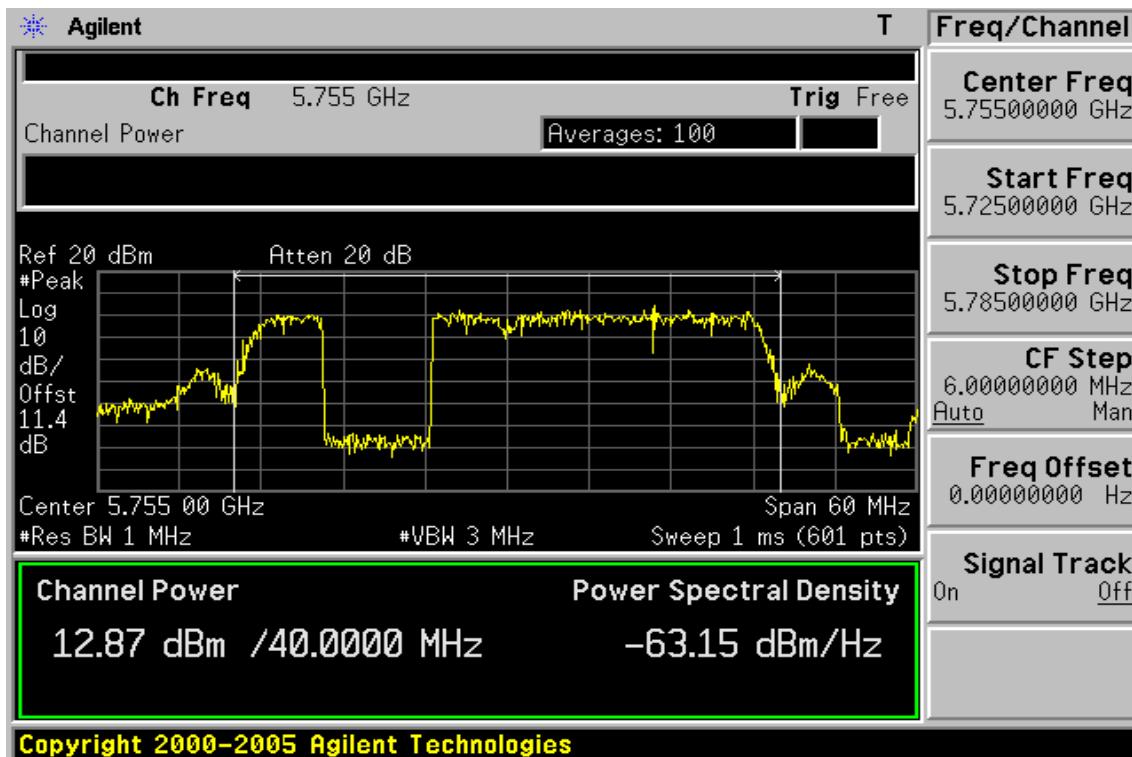
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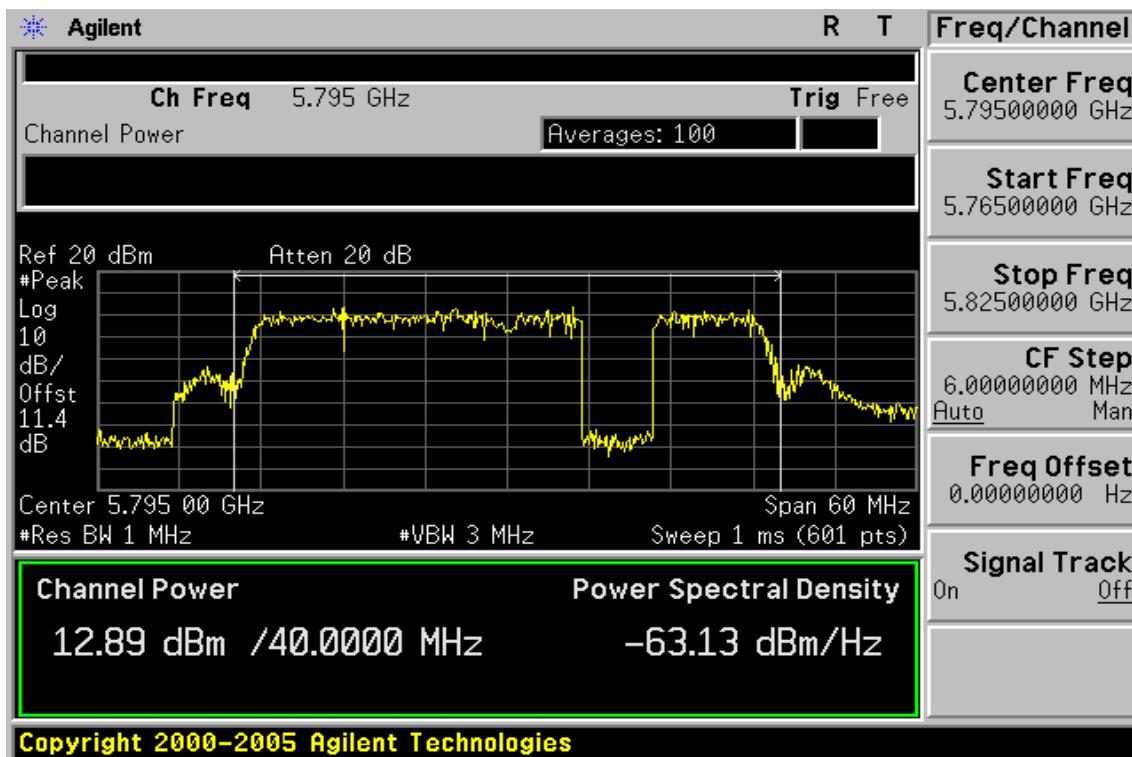
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802.11n_40M (5GHz), 30Mbps MIMO Chain 0

Peak Power Output Plot (CH Low)



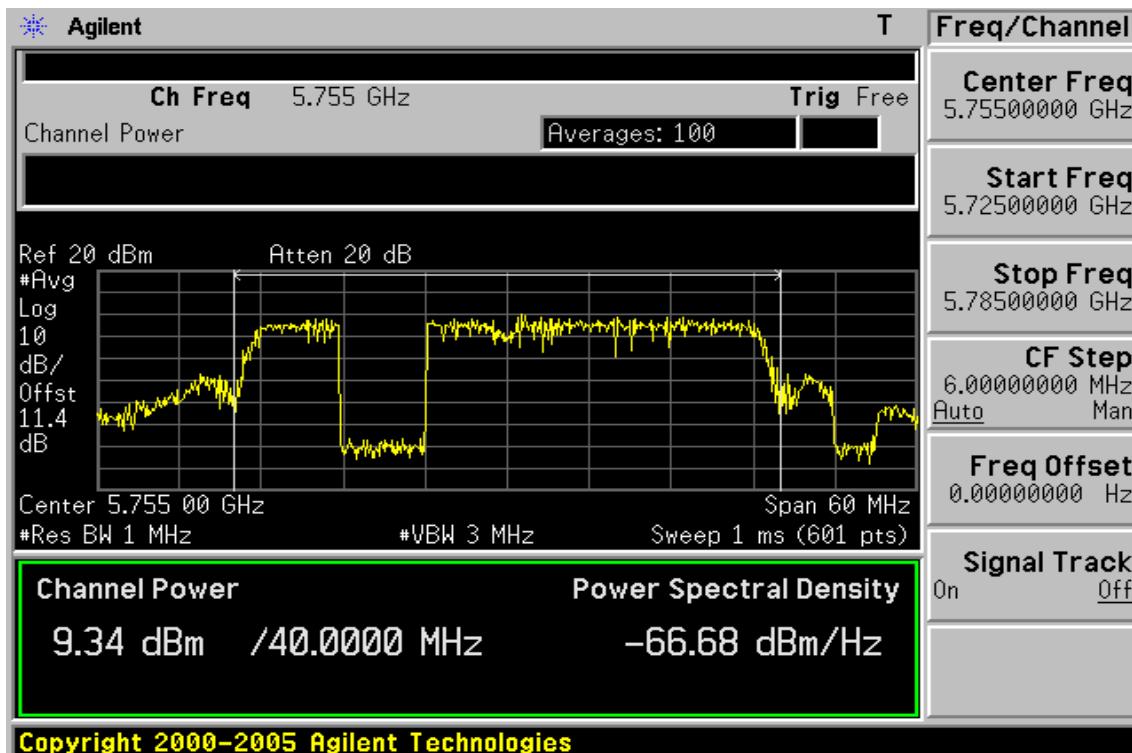
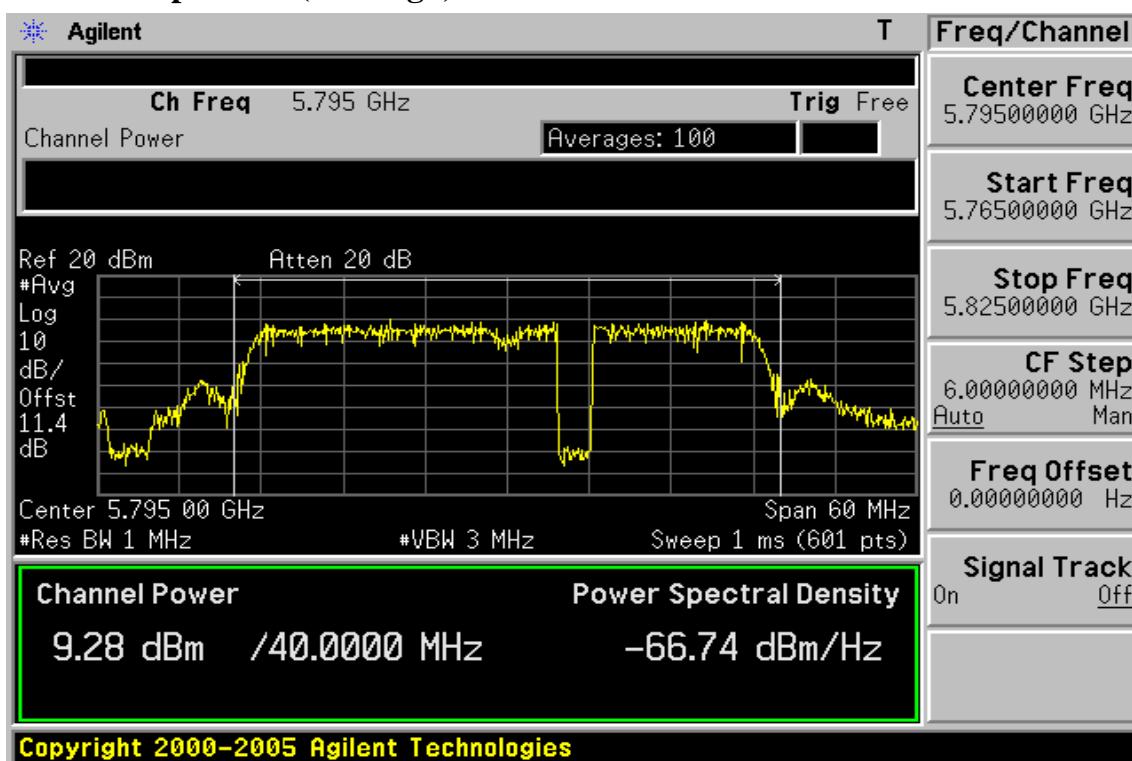
Peak Power Output Plot (CH High)



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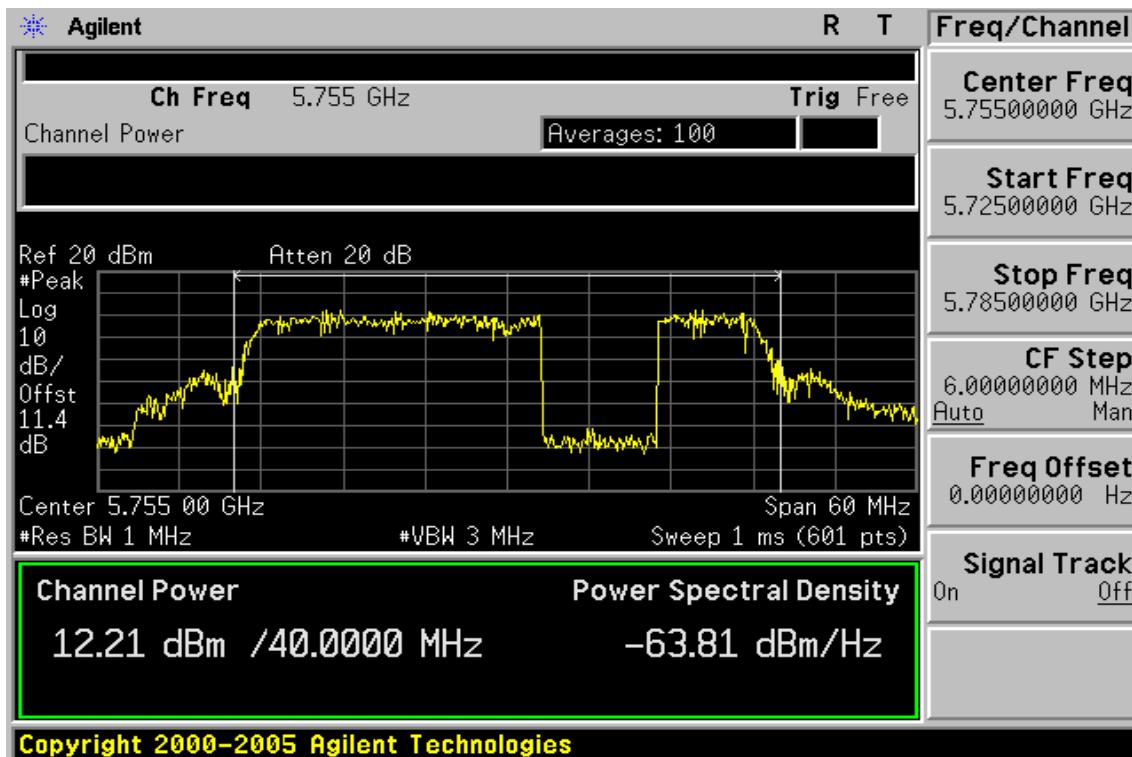
Average Power Output Plot (CH Low)

Average Power Output Plot (CH High)


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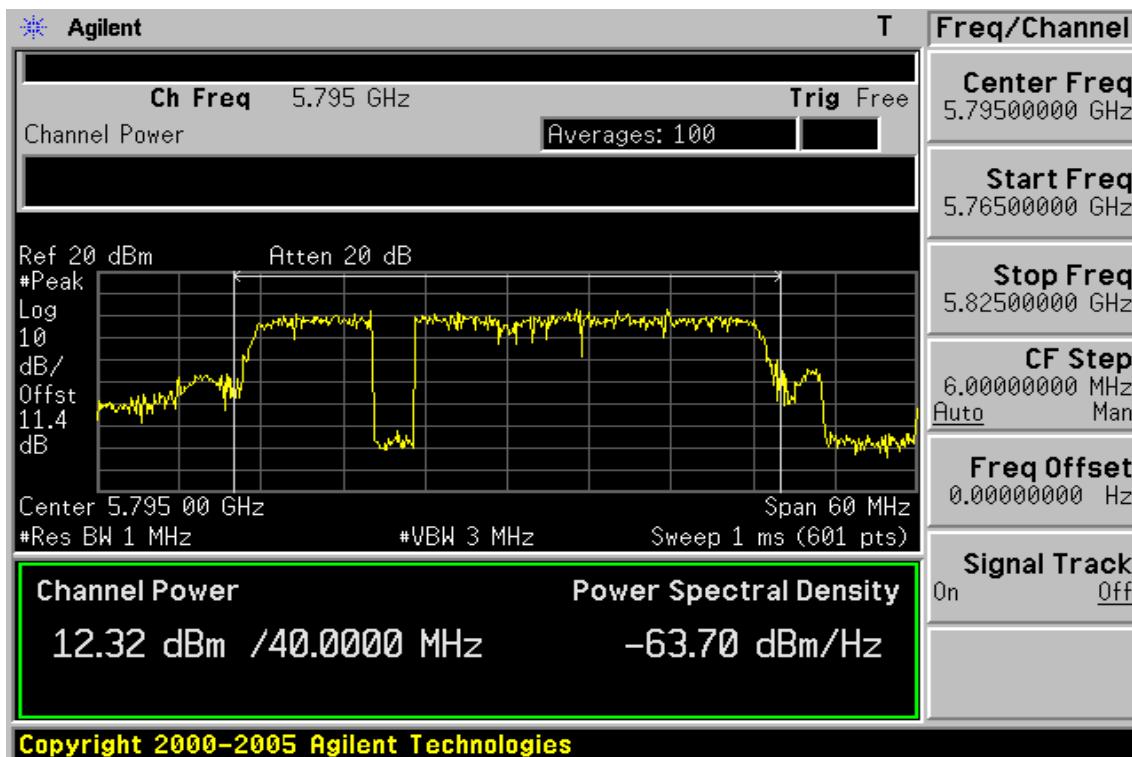
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802.11n_40M (5GHz), 30Mbps MIMO Chain 1

Peak Power Output Plot (CH Low)



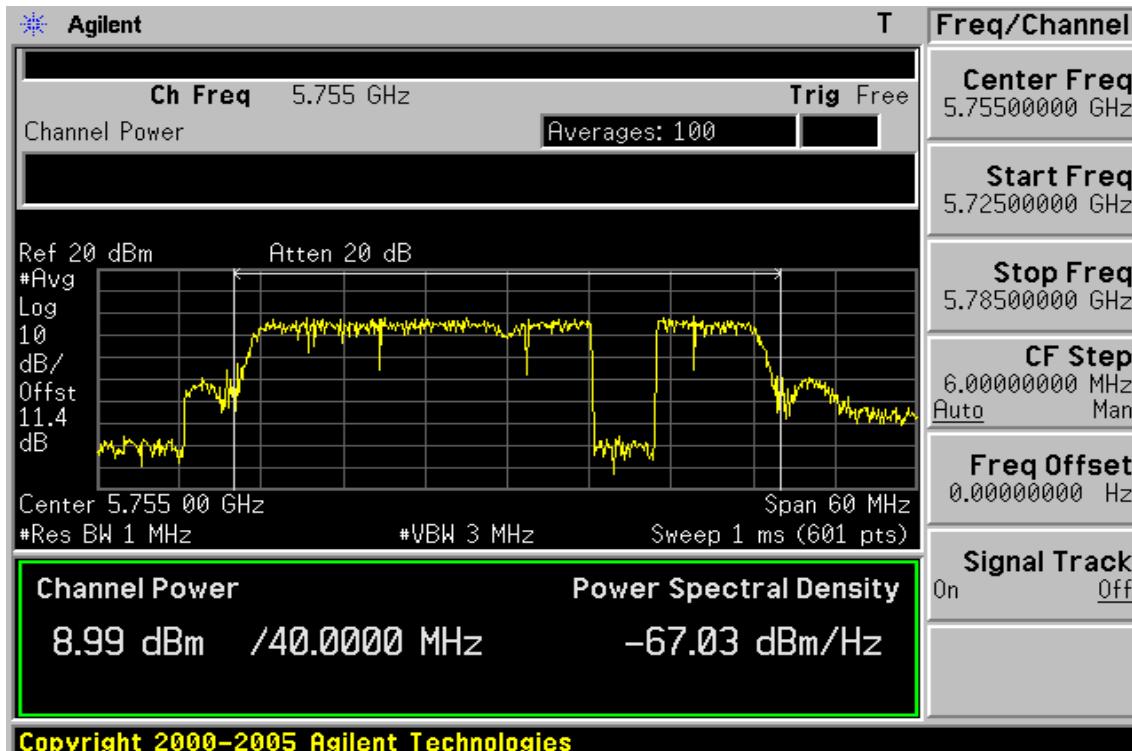
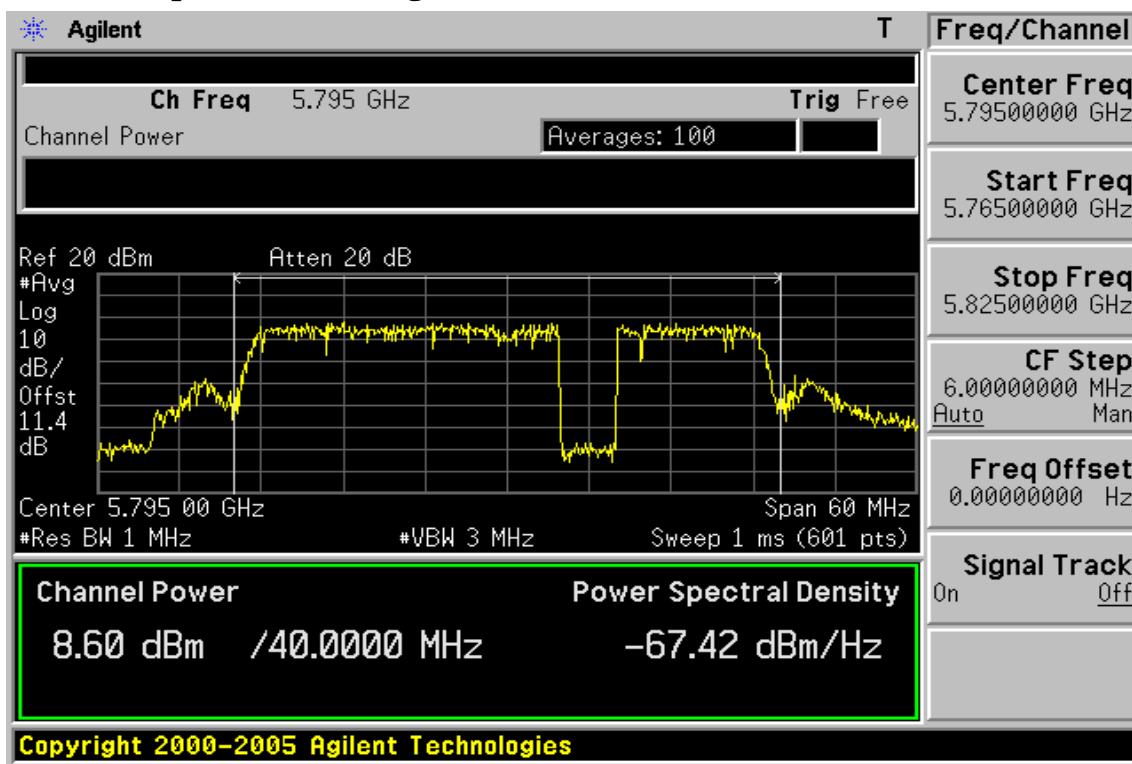
Peak Power Output Plot (CH High)



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Average Power Output Plot (CH Low)

Average Power Output Plot (CH High)


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8 6dB BANDWIDTH

8.1 Standard Applicable:

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

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

8.2 Measurement Equipment Used:

Refer to section 7.2 for details.

8.3 Test Set-up:

Refer to section 7.3 for details.

8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100KHz, VBW = 3*RBW, Span = 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 (MHz)	Bandwidth (KHz)	Result
2412	10.178	> 500	PASS
2437	10.186	> 500	PASS
2462	10.172	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
2412	16.432	> 500	PASS
2437	16.422	> 500	PASS
2462	16.461	> 500	PASS

802.11n_20M (2.4GHz)

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
2412	17.641	> 500	PASS
2437	17.615	> 500	PASS
2462	17.649	> 500	PASS

802.11n_40M (2.4GHz)

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
2422	36.383	> 500	PASS
2437	36.388	> 500	PASS
2462	36.737	> 500	PASS

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802.11a

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
5745	16.420	> 500	PASS
5785	16.422	> 500	PASS
5825	16.431	> 500	PASS

802.11n_20M (5GHz)

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
5745	17.589	> 500	PASS
5785	17.562	> 500	PASS
5825	17.612	> 500	PASS

802.11n_40M (5GHz)

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
5755	35.842	> 500	PASS
5795	35.862	> 500	PASS

*Offset 10.9dB for 2.4G

11.4dB for 5G

Note: Refer to next page for plots.

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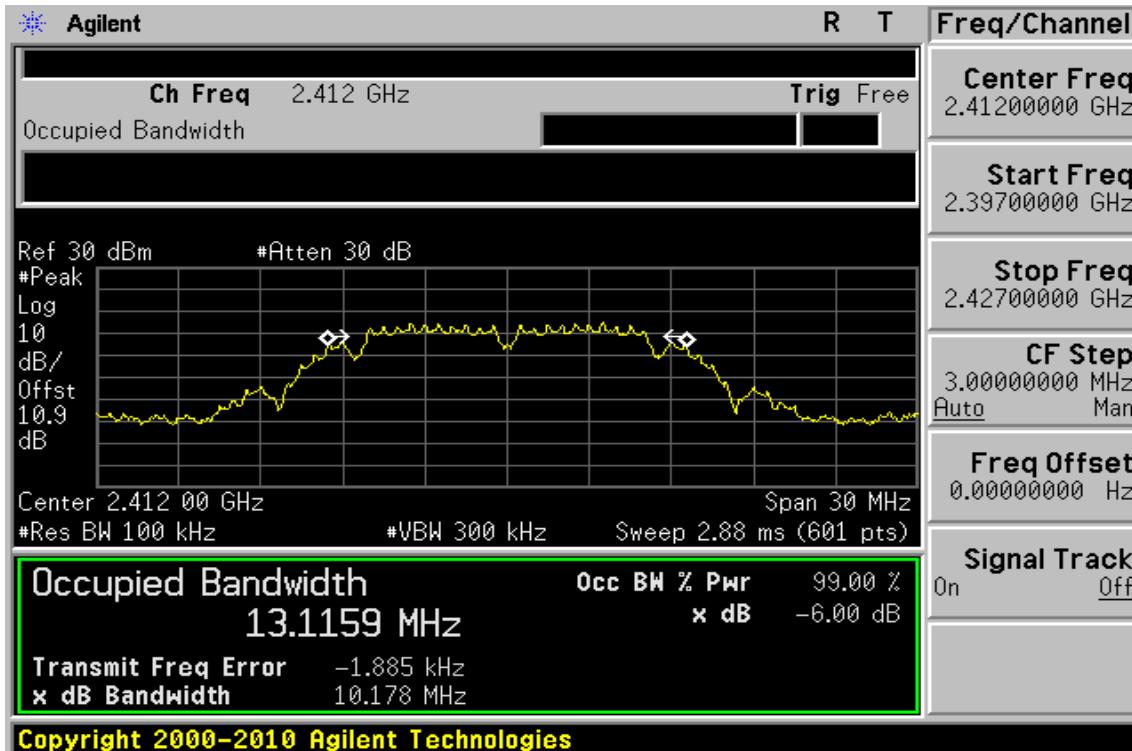
f (886-2) 2298-0488

www.tw.sgs.com

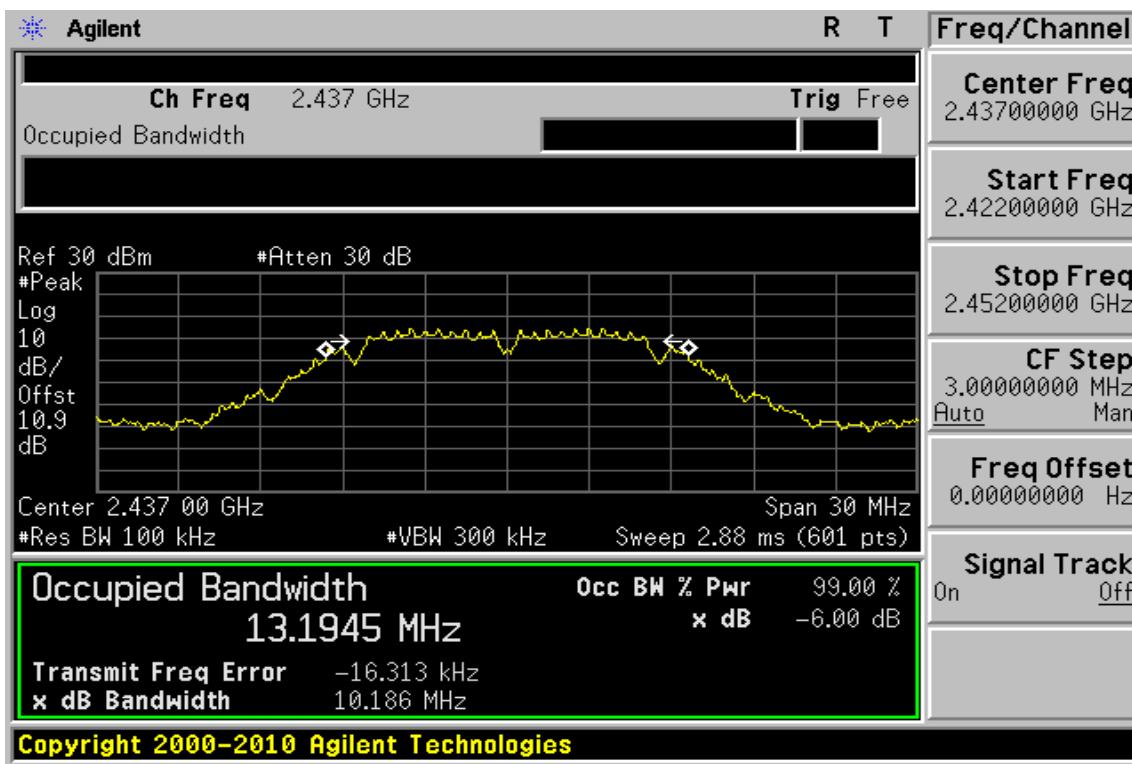
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

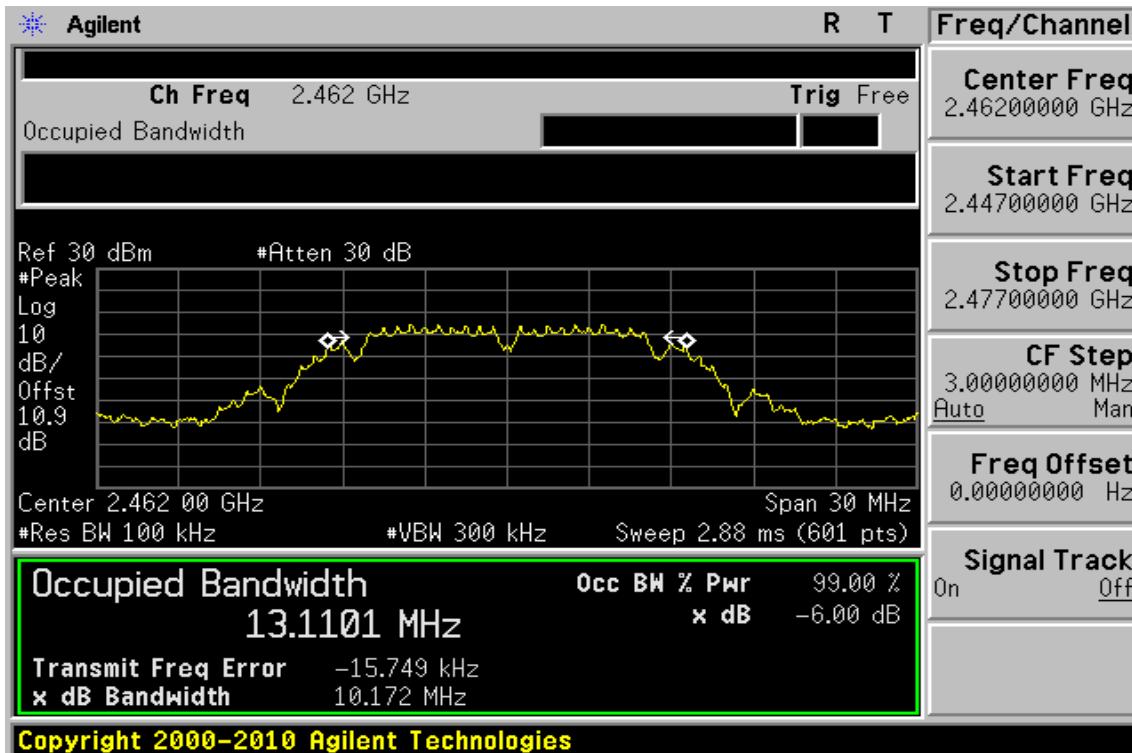


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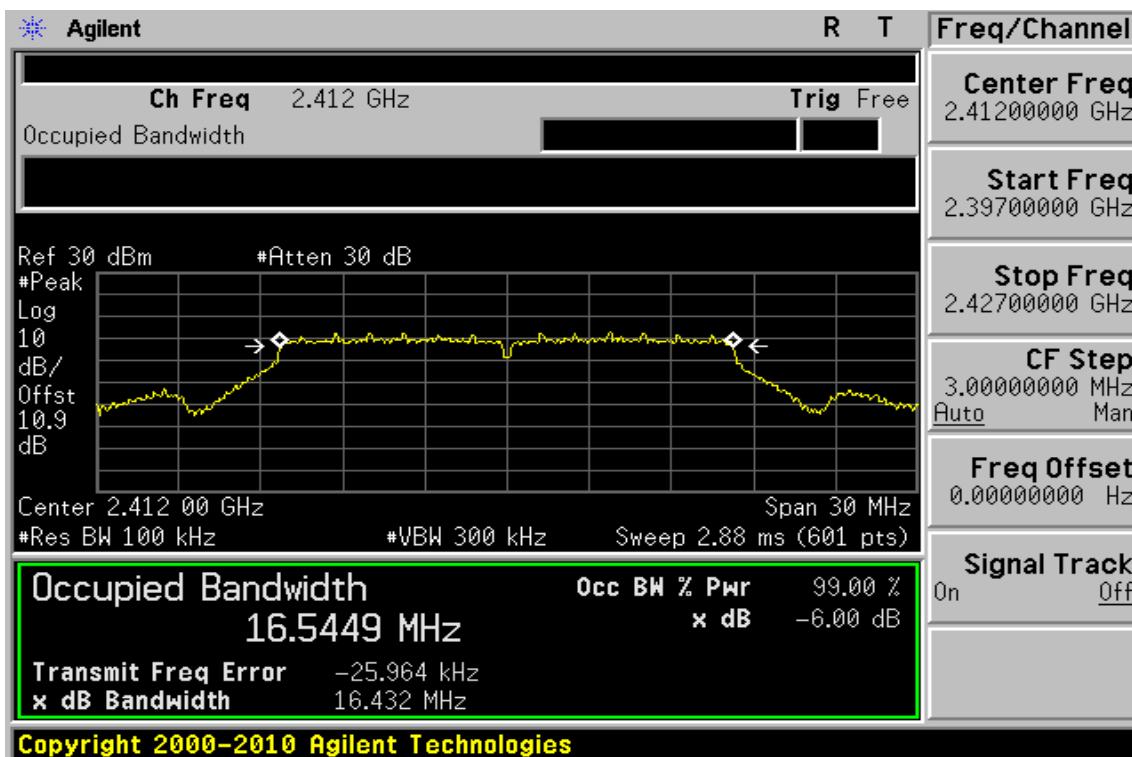
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

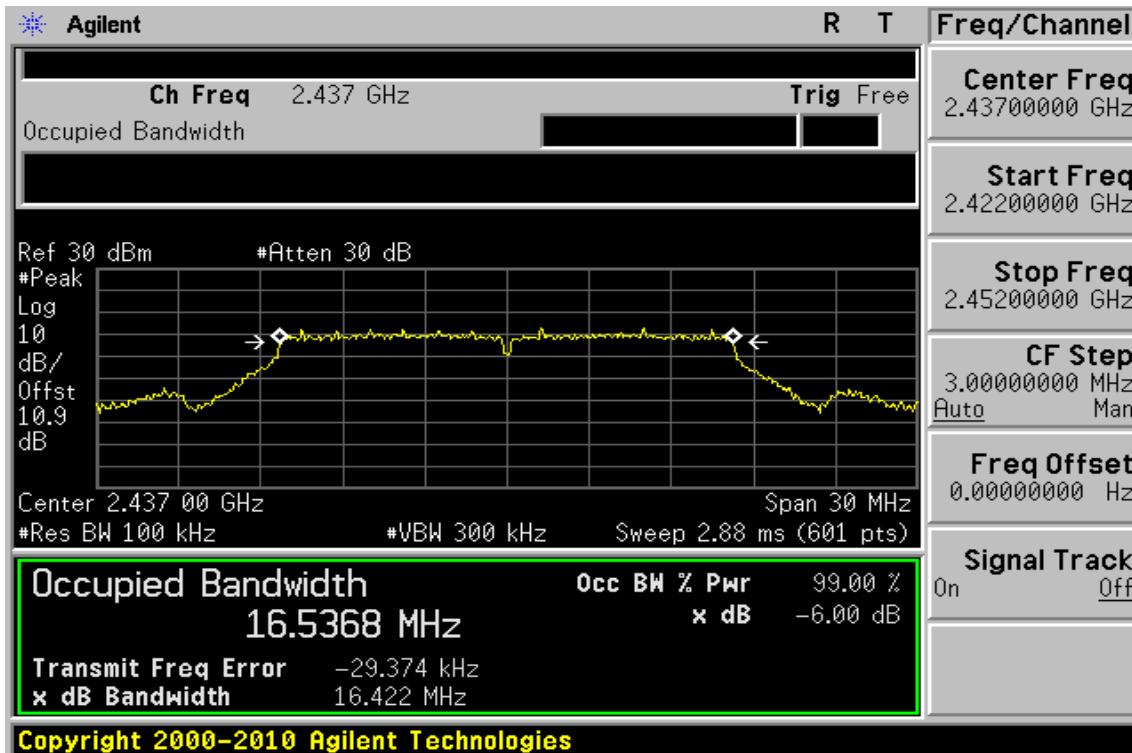


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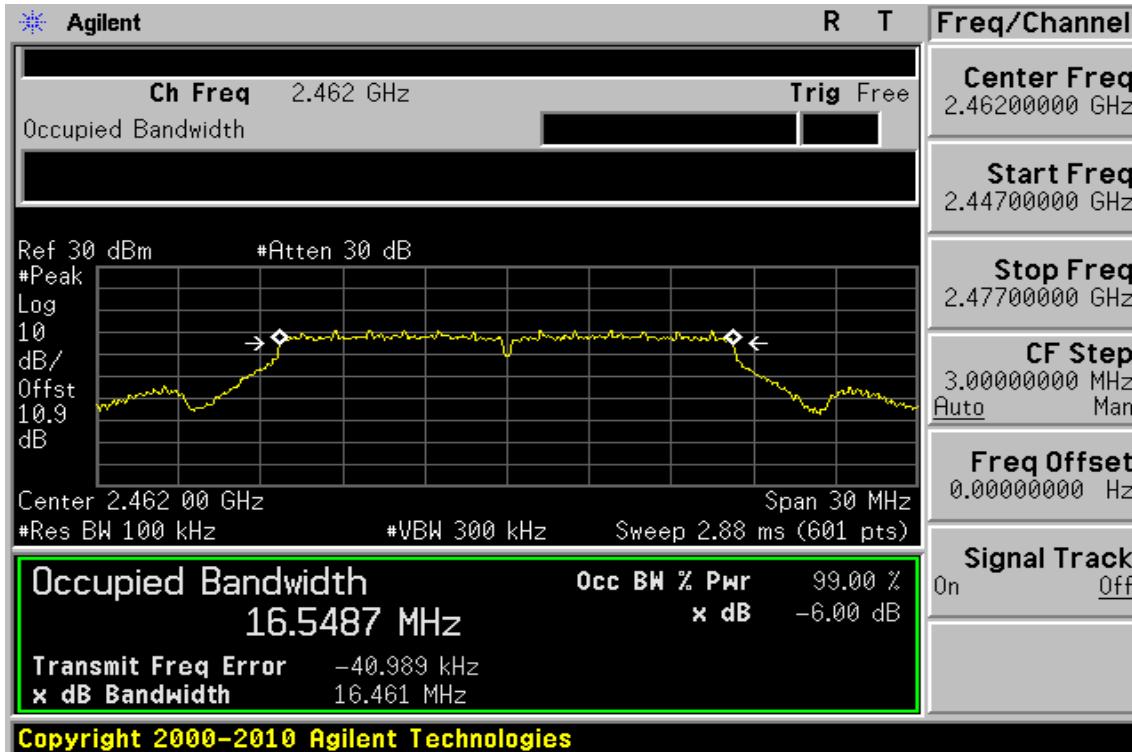
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

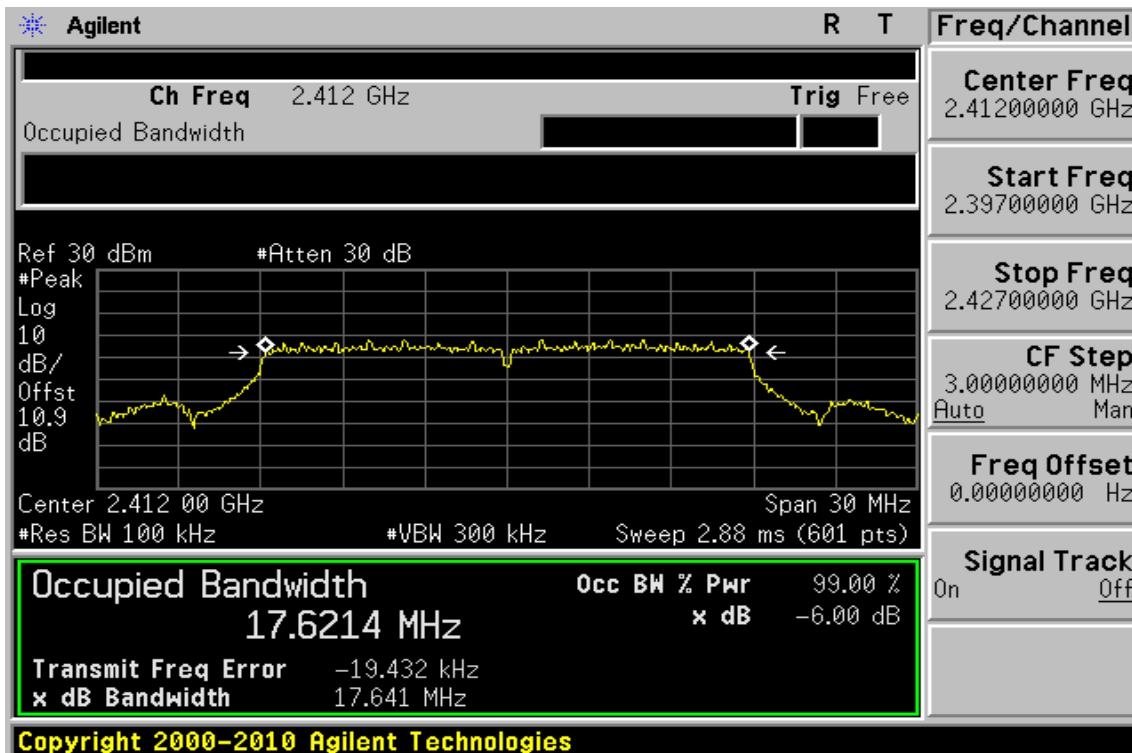


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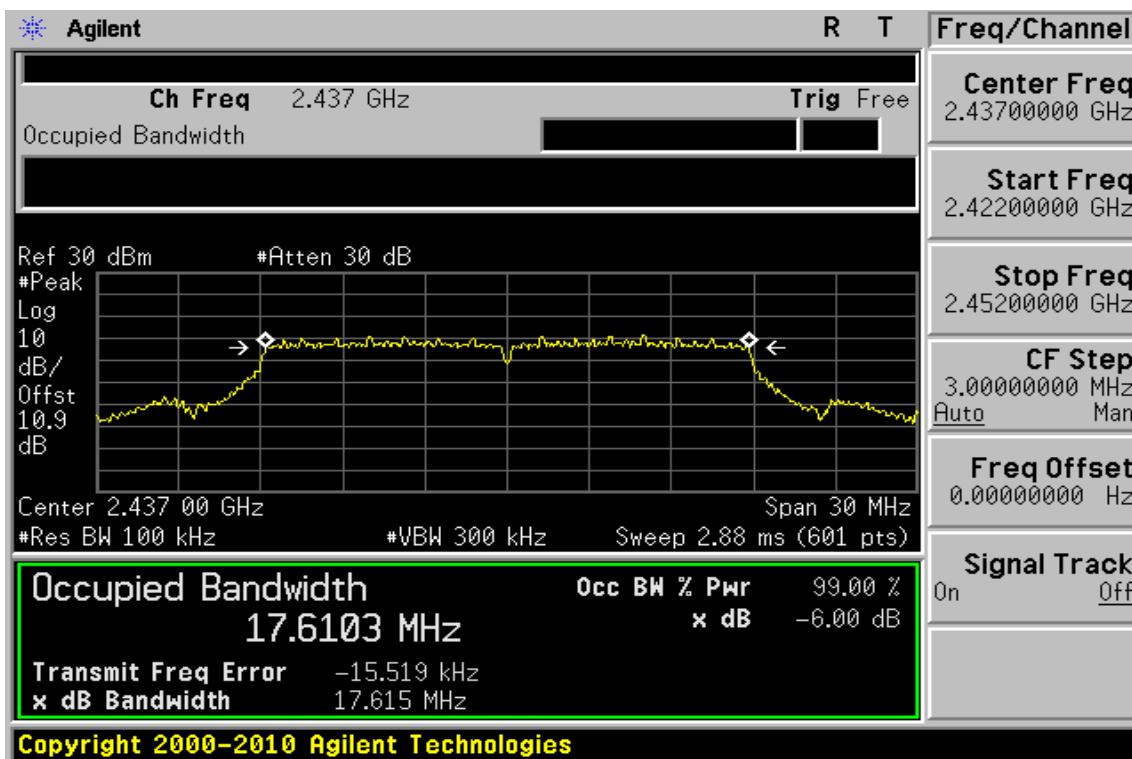
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802.11n_20M (2.4GHz)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

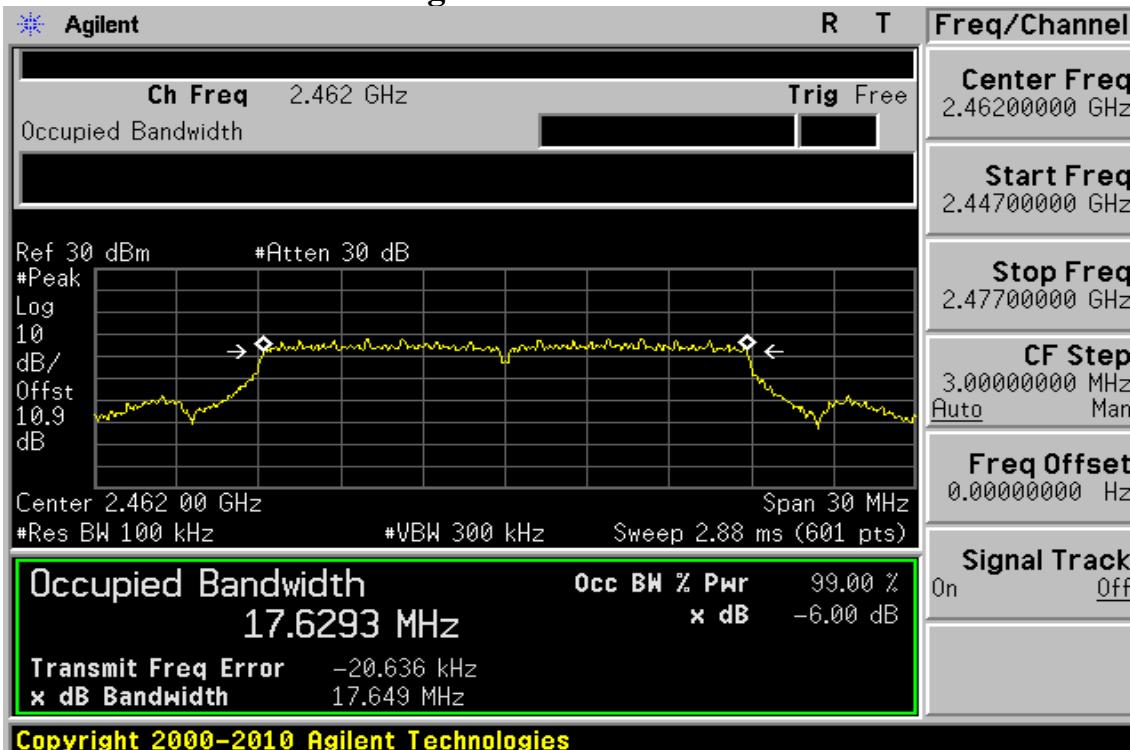


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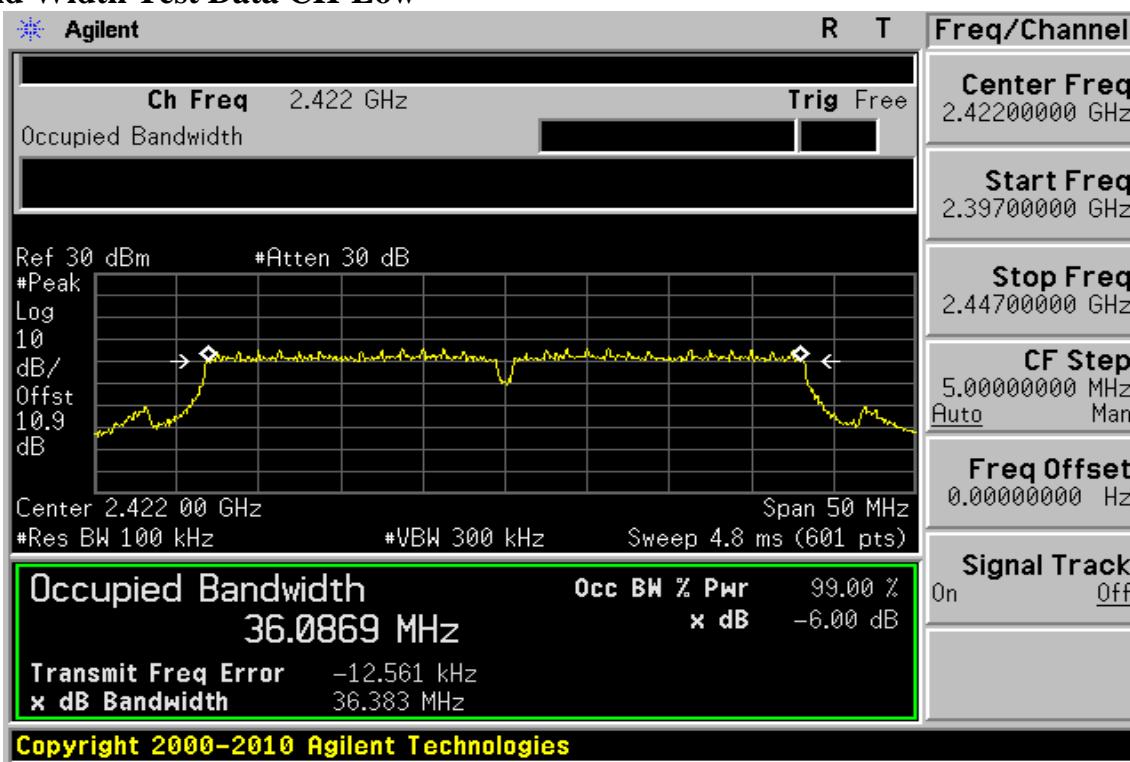
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6dB Band Width Test Data CH-High



802.11n_40M (2.4GHz)

6dB Band Width Test Data CH-Low

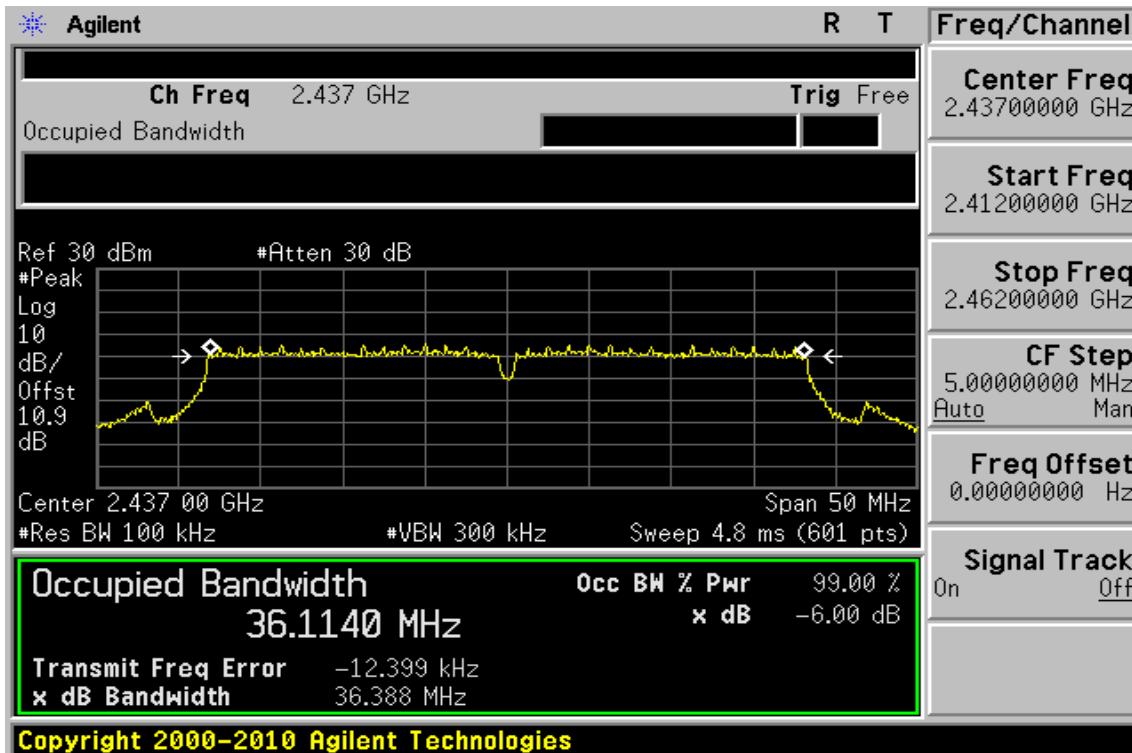


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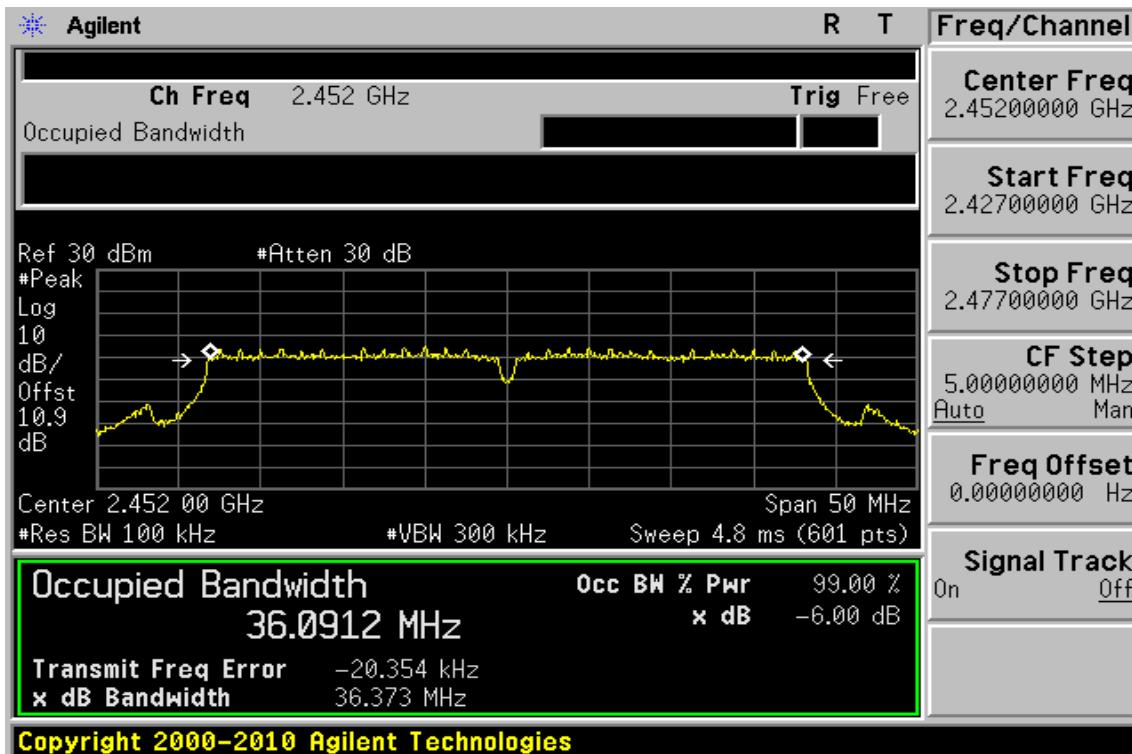
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High

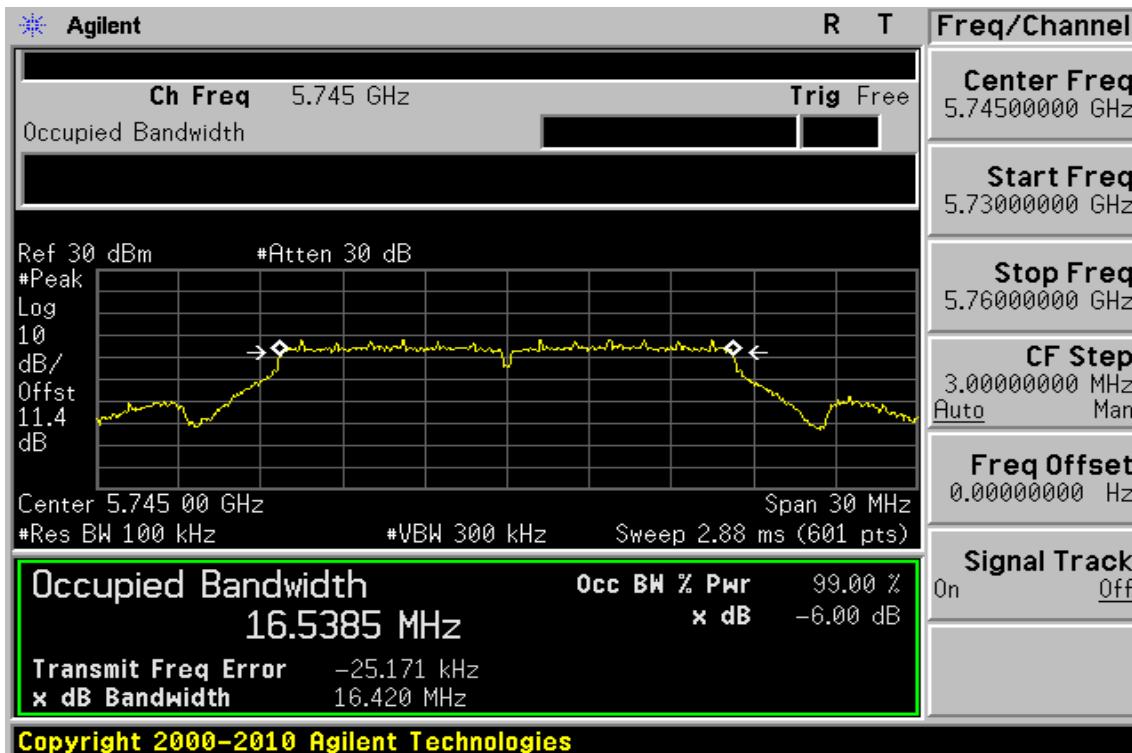


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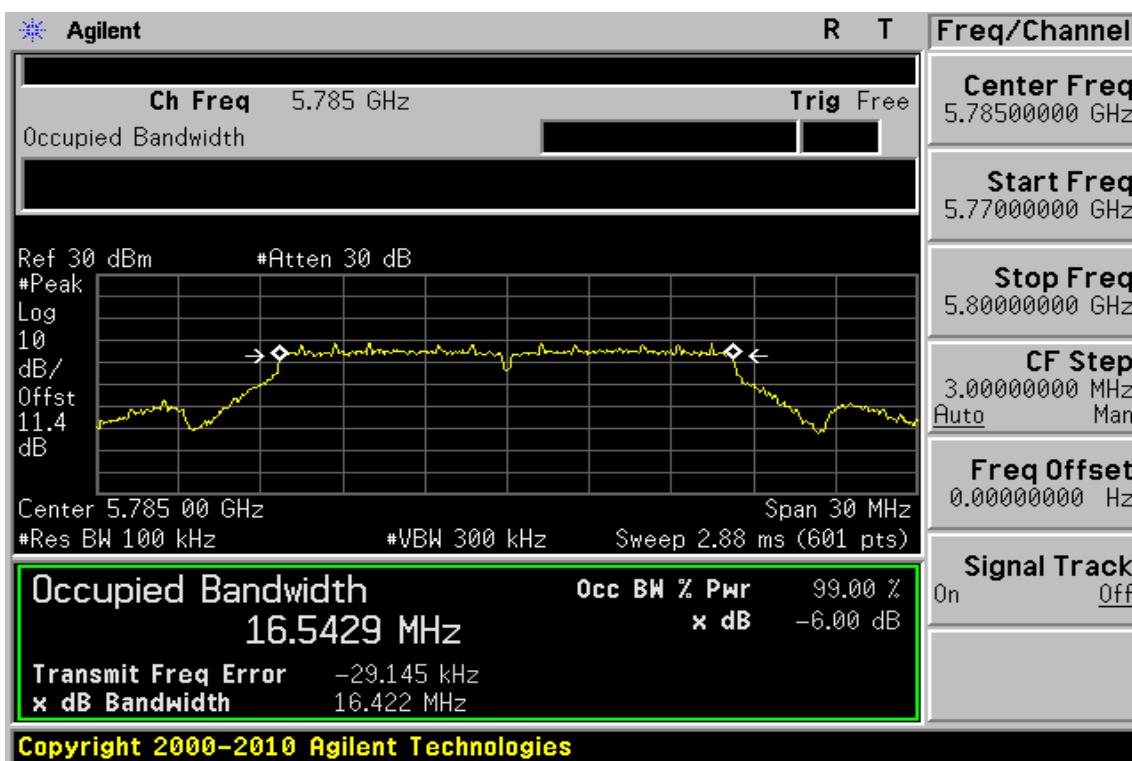
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802.11a

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

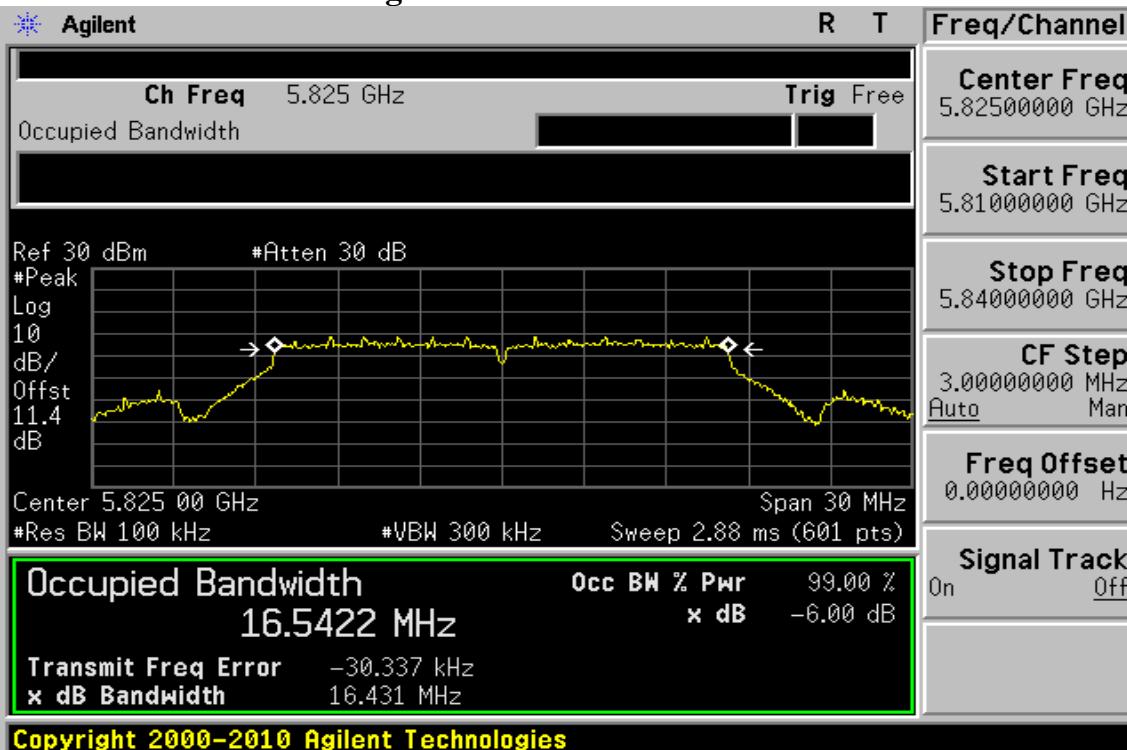


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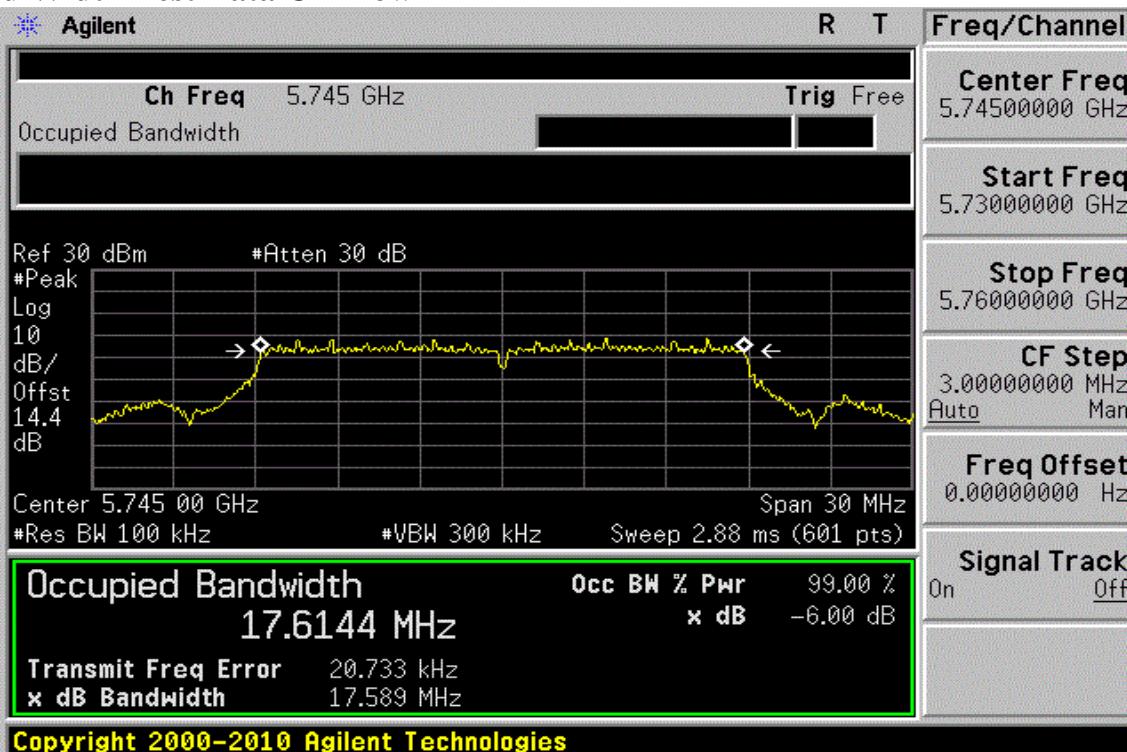
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6dB Band Width Test Data CH-High



802.11n_20M (5GHz)

6dB Band Width Test Data CH-Low

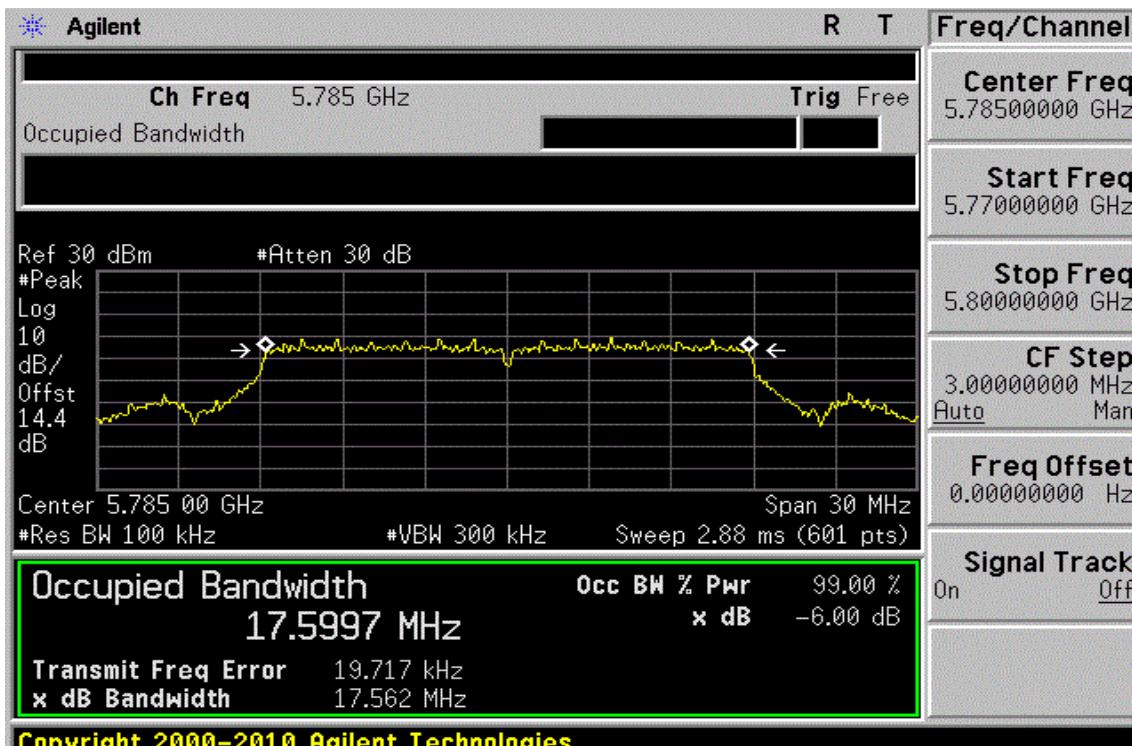


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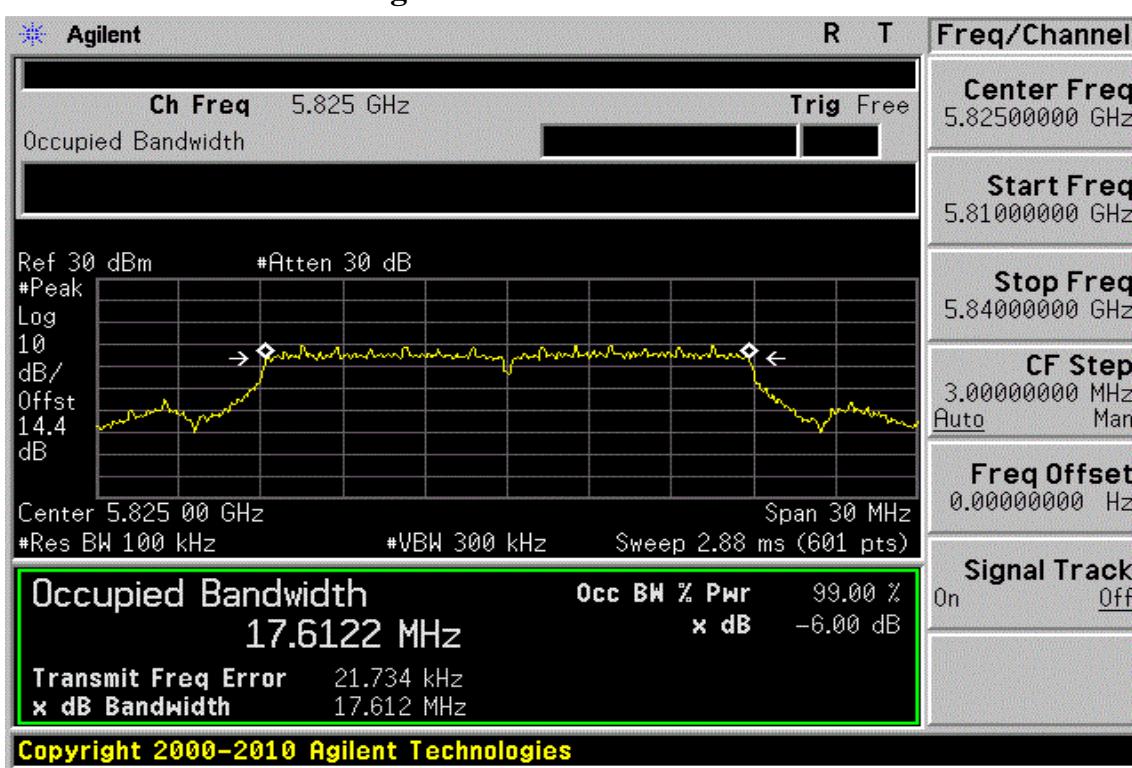
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



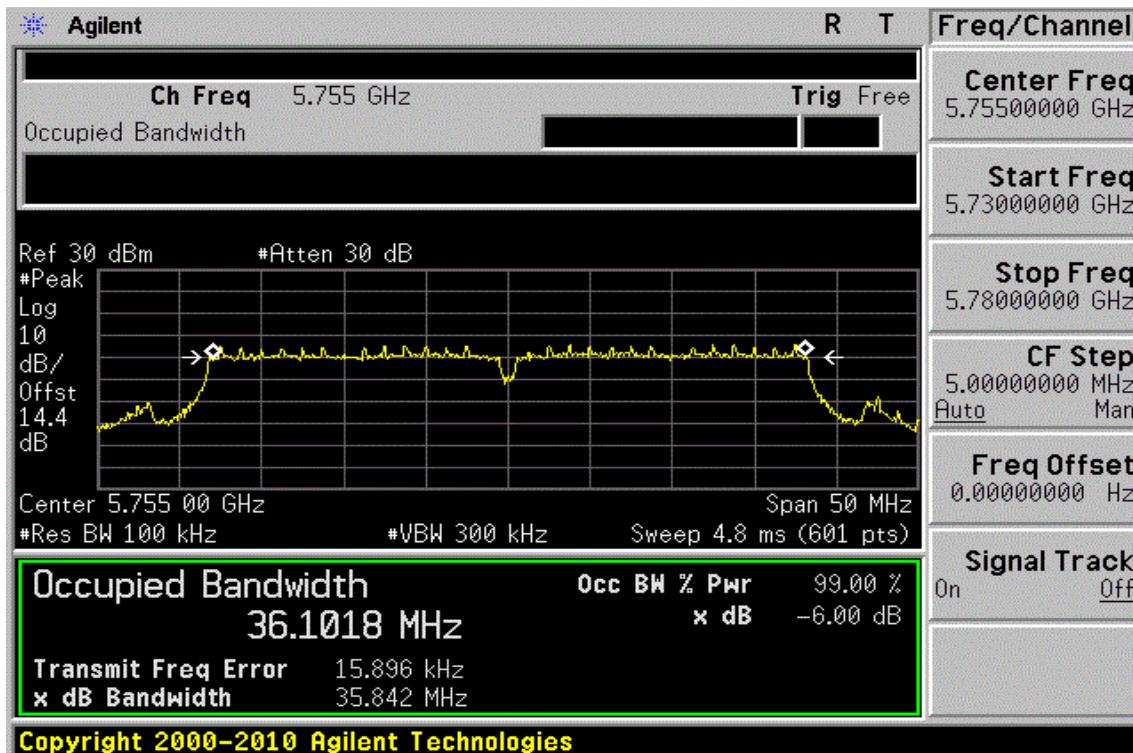
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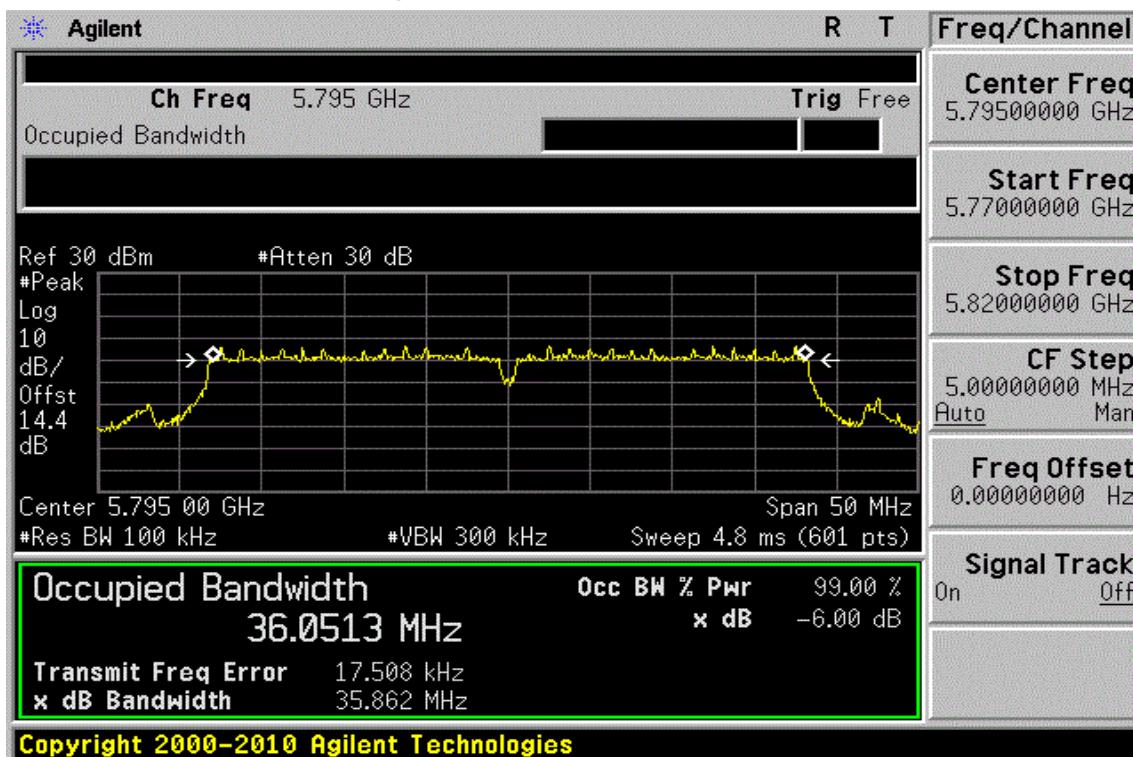
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802.11n _40M (5GHz)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-High



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9 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

9.1 Standard Applicable:

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

According to RSS-Gen §7.2.5 and RSS-210 issue 8, §A8.5, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the radio frequency power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under section A8.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Tables 2 and 3 is not required. In addition, radiated emissions which fall in the restricted bands of Table 1 must also comply with the radiated emission limits specified in Tables 2 and 3.

9.2 Measurement Equipment Used:

9.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

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9.2.2 Radiated emission:

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

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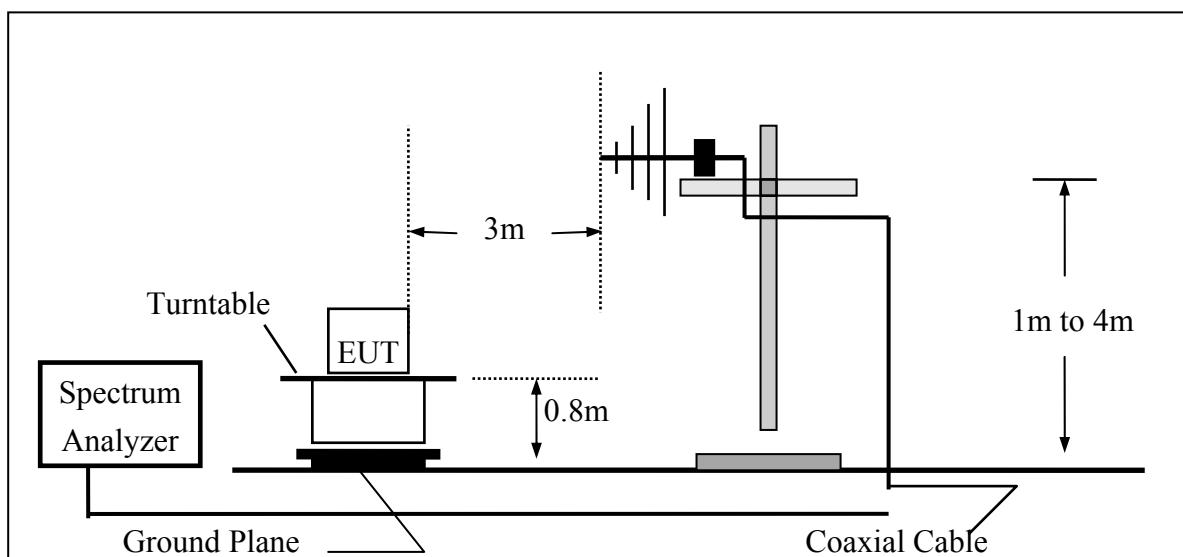
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

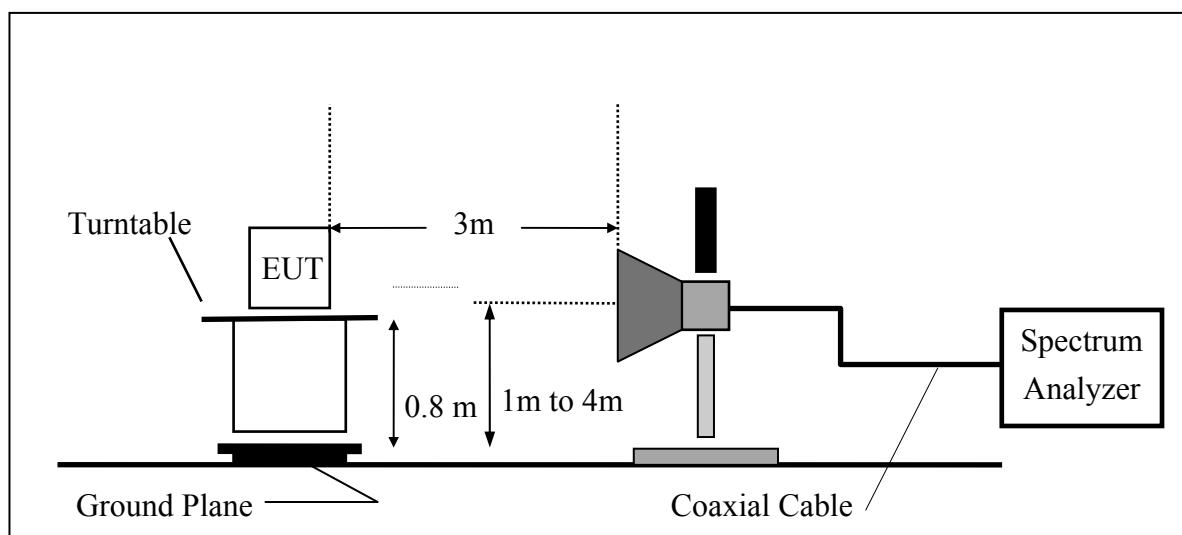
Refer to section 7.3 for details.

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, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

Note: For MIMO operation, directional gain and limit are subject to be varied as per 15.247 c)1)i)

Due to correlation of two transmitting signal antenna, directional gain = Gain + 10 Log (N) dBi is used in determination of total power being transmitting while MIMO mode is enabled.

For the measurement of MIMO operation complying with the conducted bandedge test item, Aux with 3dB offset on HT_20 and main with 3dB offset on HT_40 is measured out, and its corresponding resultant plot is captured, respectively. Following the higher emission generated by respective port while signal is being transmitted singularly, 3dB offset with higher value yields worsen and representative data. While measuring HT_20 at single transmission of Aux port, Aux is observed and test out to obtain worsen outcome. Likewise, HT_40 at Main results the worsen data while undertaking single transmission, and therefore offset 3dB would results worsen emission.

Note: Following “measure and add 10 Log (N)” as per KDB 662911 by adding 10 Log (N) on spectrum to measure the conducted emission at MIMO mode.

Offset = cable loss + attenuator + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

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

EIRP = the equivalent isotropic radiated power in dBm,

E = electric field strength in dB μ V/m,

d = measurement distance in meters.

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

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

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

9.6 Measurement Result:

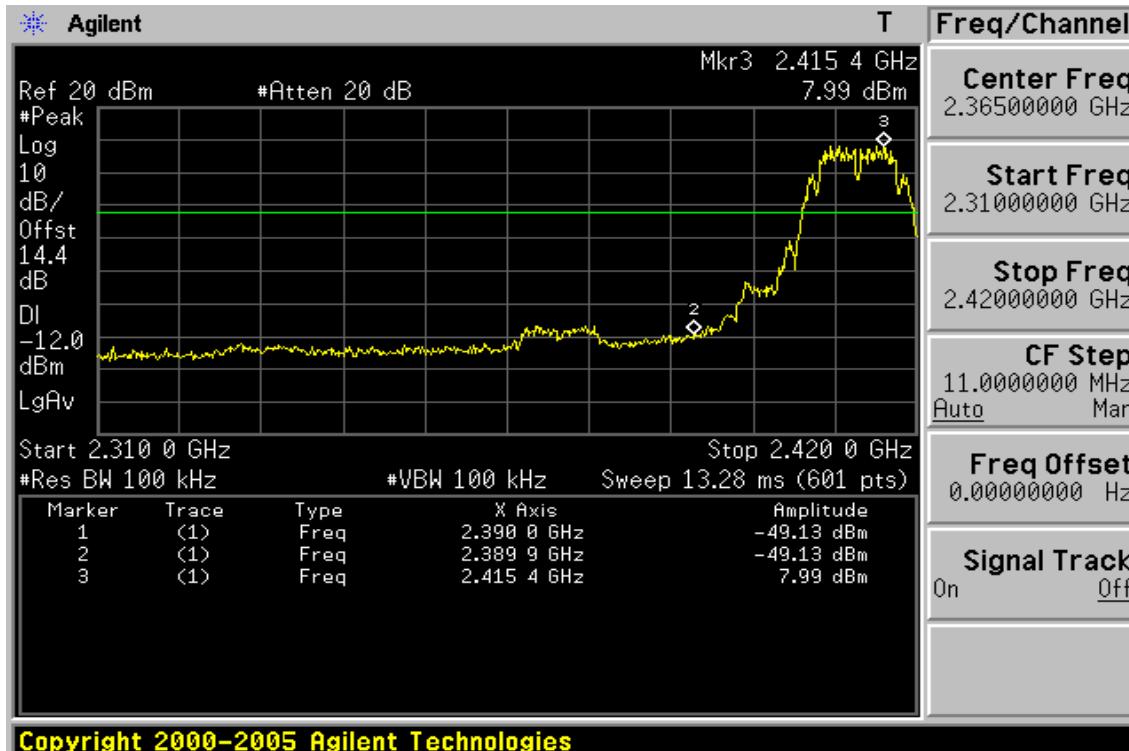
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Internal Antenna

Operation Band	:802.11b	Test Date	:2012-10-30
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:BANDEDGE LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V					
2390.00	E	Average	47.42	2.12	49.54	54.00	-4.46	
2390.00	E	Peak	59.26	2.12	61.38	74.00	-12.62	

Operation Band	:802.11b	Test Date	:2012-10-30
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:BANDEDGE LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V					
2390.00	E	Average	41.91	2.74	44.65	54.00	-9.35	
2390.00	E	Peak	54.26	2.74	57.00	74.00	-17.00	

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Operation Band :082.11b Test Date :2012-11-11
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
2483.50	E	Average		50.59	2.53	53.12	54.00	-0.88
2483.50	E	Peak		61.79	2.53	64.32	74.00	-9.68

Operation Band :082.11b Test Date :2012-11-11
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
2483.50	E	Average		42.95	3.56	46.51	54.00	-7.49
2483.50	E	Peak		53.98	3.56	57.54	74.00	-16.46

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External Antenna

Operation Band :802.11b Test Date :2012-11-08
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2390.00	E	Average	49.98	2.12	52.10	54.00	-1.90	
2390.00	E	Peak	60.84	2.12	62.96	74.00	-11.04	

Operation Band :802.11b Test Date :2012-11-12
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
2390.00	E	Average	48.46	2.74	51.20	54.00	-2.80	
2390.00	E	Peak	56.97	2.74	59.71	74.00	-14.29	

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Operation Band :802.11b Test Date :2012-11-09
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
2483.50	E	Average		49.29	2.53	51.82	54.00	-2.18
2483.50	E	Peak		59.61	2.53	62.14	74.00	-11.86

Operation Band :802.11b Test Date :2012-11-09
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

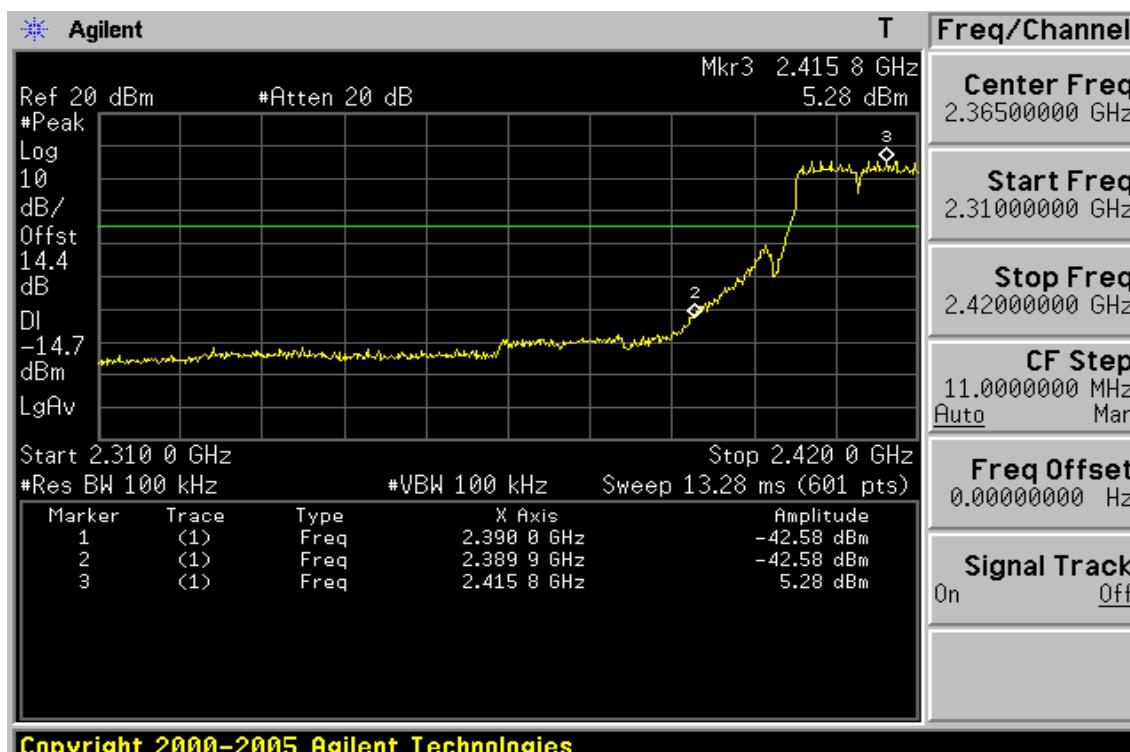
Freq. MHz	Note F/H/E/S	Detector PK/QP/AV	Spectrum		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level dB μ V				
2483.50	E	Average		46.11	3.56	49.67	54.00	-4.33
2483.50	E	Peak		55.28	3.56	58.84	74.00	-15.16

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802.11g
Band Edges Test Data CH-Low

Band Edges Test Data CH-High


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Internal Antenna

Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :BANDEDGE LOW
 EUT Pol. :H Plan

Test Date :2012-11-11
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Marcus
 Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	51.19	2.12	53.31	54.00	-0.69
2390.00	E	Peak	68.43	2.12	70.55	74.00	-3.45

Operation Band :802.11g
 Fundamental Frequency :2412 MHz
 Operation Mode :BANDEDGE LOW
 EUT Pol. :H plan

Test Date :2012-06-05
 Temp./Humi. :24.8 deg_C / 67 RH
 Engineer :Marcus
 Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	44.44	2.74	47.18	54.00	-6.82
2390.00	E	Peak	59.71	2.74	62.45	74.00	-11.55

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Operation Band :802.11g Test Date :2012-11-11
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	51.03	2.53	53.56	54.00	-0.44
2483.50	E	Peak	65.65	2.53	68.18	74.00	-5.82

Operation Band :802.11g Test Date :2012-10-30
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	42.71	3.56	46.27	54.00	-7.73
2483.50	E	Peak	55.47	3.56	59.03	74.00	-14.97

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External Antenna

Operation Band	:802.11g	Test Date	:2012-11-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:BANDEDGE LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	51.51	2.12	53.63	54.00	-0.37
2390.00	E	Peak	69.34	2.12	71.46	74.00	-2.54

Operation Band	:802.11g	Test Date	:2012-11-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:BANDEDGE LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	47.16	2.74	49.90	54.00	-4.10
2390.00	E	Peak	61.97	2.74	64.71	74.00	-9.29

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Operation Band :802.11g Test Date :2012-11-08
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	51.05	2.53	53.58	54.00	-0.42
2483.50	E	Peak	67.74	2.53	70.27	74.00	-3.73

Operation Band :802.11g Test Date :2012-11-09
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

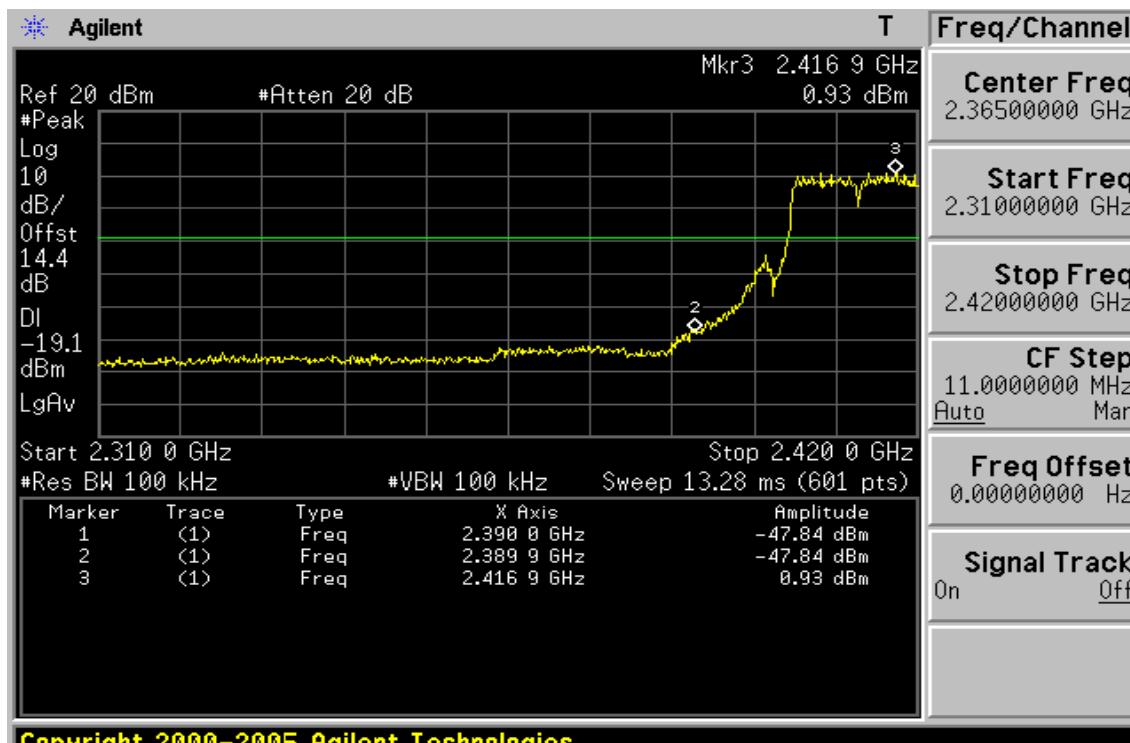
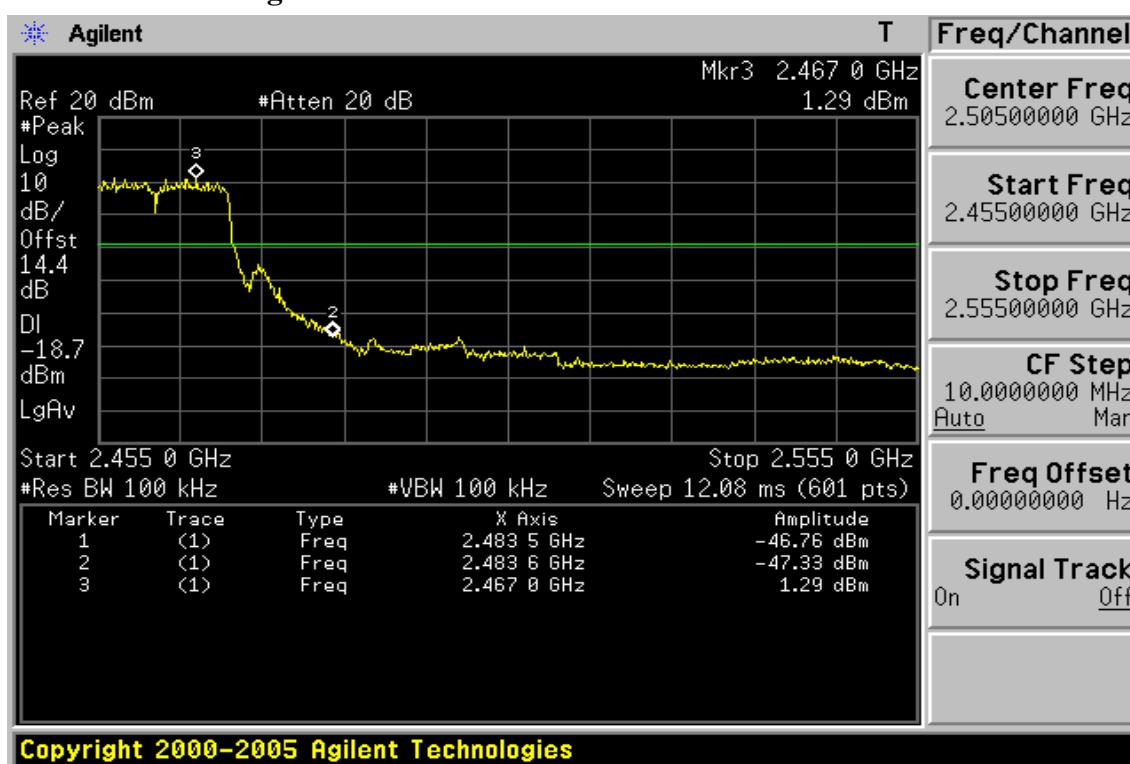
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	45.70	3.56	49.26	54.00	-4.74
2483.50	E	Peak	59.96	3.56	63.52	74.00	-10.48

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802.11n_20M (2.4GHz)
Band Edges Test Data CH-Low

Band Edges Test Data CH-High


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Internal Antenna

Operation Band :802.11n20M Test Date :2012-11-11
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	46.80	2.12	48.92	54.00	-5.08
2390.00	E	Peak	61.67	2.12	63.79	74.00	-10.21

Operation Band :802.11n20M Test Date :2012-11-11
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	42.29	2.74	45.03	54.00	-8.97
2390.00	E	Peak	54.38	2.74	57.12	74.00	-16.88

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Operation Band :802.11n20M Test Date :2012-11-11
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	48.49	2.53	51.02	54.00	-2.98
2483.50	E	Peak	65.47	2.53	68.00	74.00	-6.00

Operation Band :802.11n20M Test Date :2012-11-11
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	43.49	3.56	47.05	54.00	-6.95
2483.50	E	Peak	56.40	3.56	59.96	74.00	-14.04

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External Antenna

Operation Band :802.11n20M Test Date :2012-11-08
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	48.02	2.12	50.14	54.00	-3.86
2390.00	E	Peak	66.05	2.12	68.17	74.00	-5.83

Operation Band :802.11n20M Test Date :2012-11-08
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	44.29	2.74	47.03	54.00	-6.97
2390.00	E	Peak	62.40	2.74	65.14	74.00	-8.86

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Operation Band :802.11n20M Test Date :2012-11-08
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	49.81	2.53	52.34	54.00	-1.66
2483.50	E	Peak	64.82	2.53	67.35	74.00	-6.65

Operation Band :802.11n20M Test Date :2012-11-09
 Fundamental Frequency :2462 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

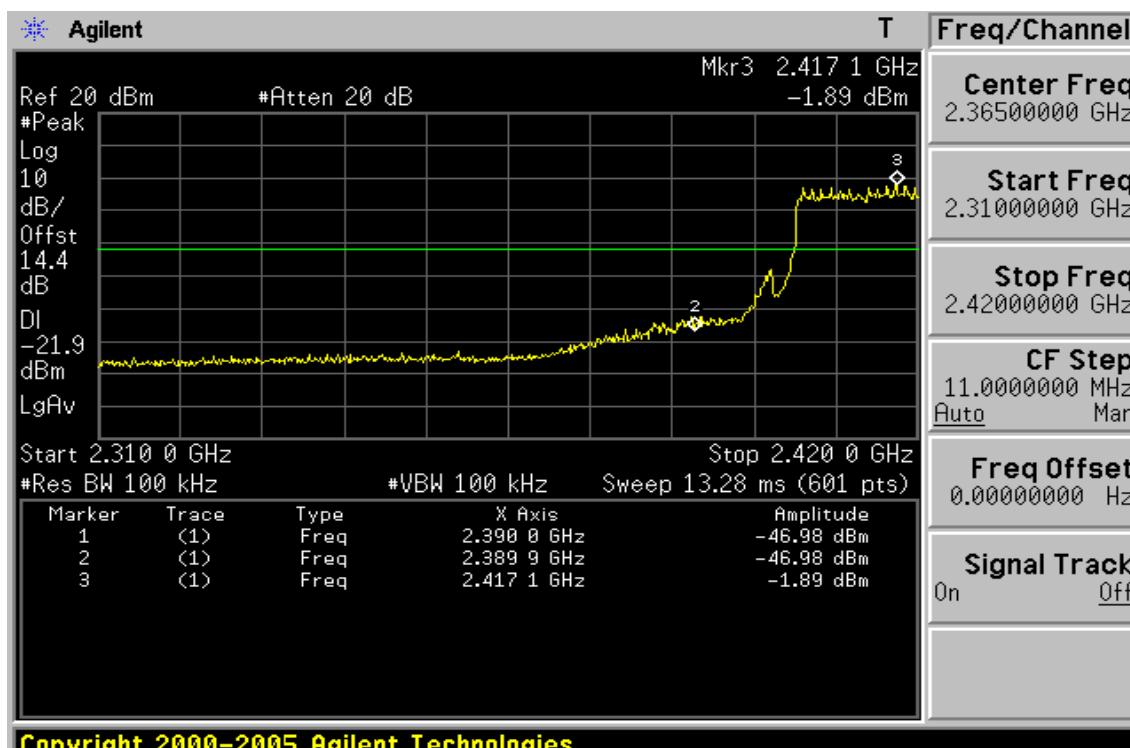
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	45.49	3.56	49.05	54.00	-4.95
2483.50	E	Peak	59.27	3.56	62.83	74.00	-11.17

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802.11n_40M (2.4GHz)

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Internal Antenna

Operation Band :802.11n40M Test Date :2012-11-11
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	46.79	2.12	48.91	54.00	-5.09
2390.00	E	Peak	63.14	2.12	65.26	74.00	-8.74

Operation Band :802.11n40M Test Date :2012-10-30
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	42.92	2.74	45.66	54.00	-8.34
2390.00	E	Peak	56.68	2.74	59.42	74.00	-14.58

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Operation Band :802.11n40M Test Date :2012-11-11
 Fundamental Frequency :2452 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	48.59	2.53	51.12	54.00	-2.88
2483.50	E	Peak	66.62	2.53	69.15	74.00	-4.85

Operation Band :802.11n40M Test Date :2012-11-11
 Fundamental Frequency :2452 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	43.18	3.56	46.74	54.00	-7.26
2483.50	E	Peak	56.92	3.56	60.48	74.00	-13.52

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External Antenna

Operation Band :802.11n40M Test Date :2012-11-12
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	50.55	2.12	52.67	54.00	-1.33
2390.00	E	Peak	70.28	2.12	72.40	74.00	-1.60

Operation Band :802.11n40M Test Date :2012-11-12
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2390.00	E	Average	46.19	2.74	48.93	54.00	-5.07
2390.00	E	Peak	61.61	2.74	64.35	74.00	-9.65

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Operation Band :802.11n40M Test Date :2012-11-12
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	49.64	2.53	52.17	54.00	-1.83
2483.50	E	Peak	67.12	2.53	69.65	74.00	-4.35

Operation Band :802.11n40M Test Date :2012-11-12
 Fundamental Frequency :2422 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :BANDEDGE HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
2483.50	E	Average	45.84	3.56	49.40	54.00	-4.60
2483.50	E	Peak	62.31	3.56	65.87	74.00	-8.13

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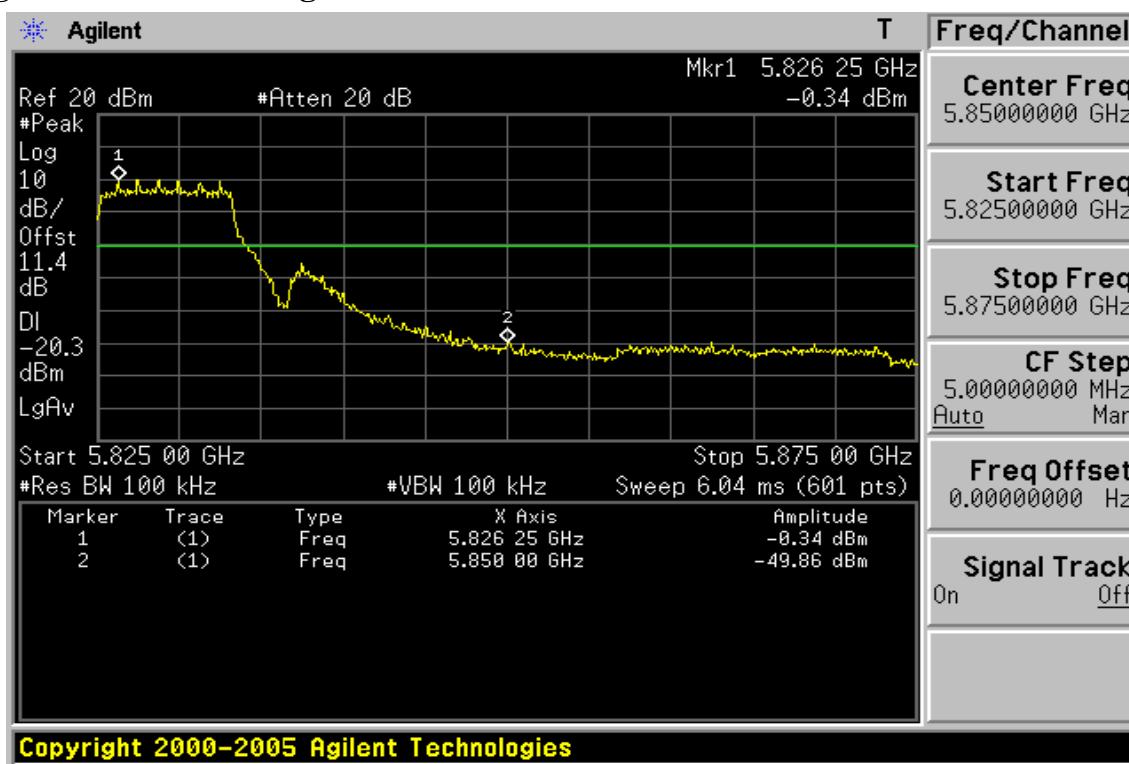
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802.11a

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



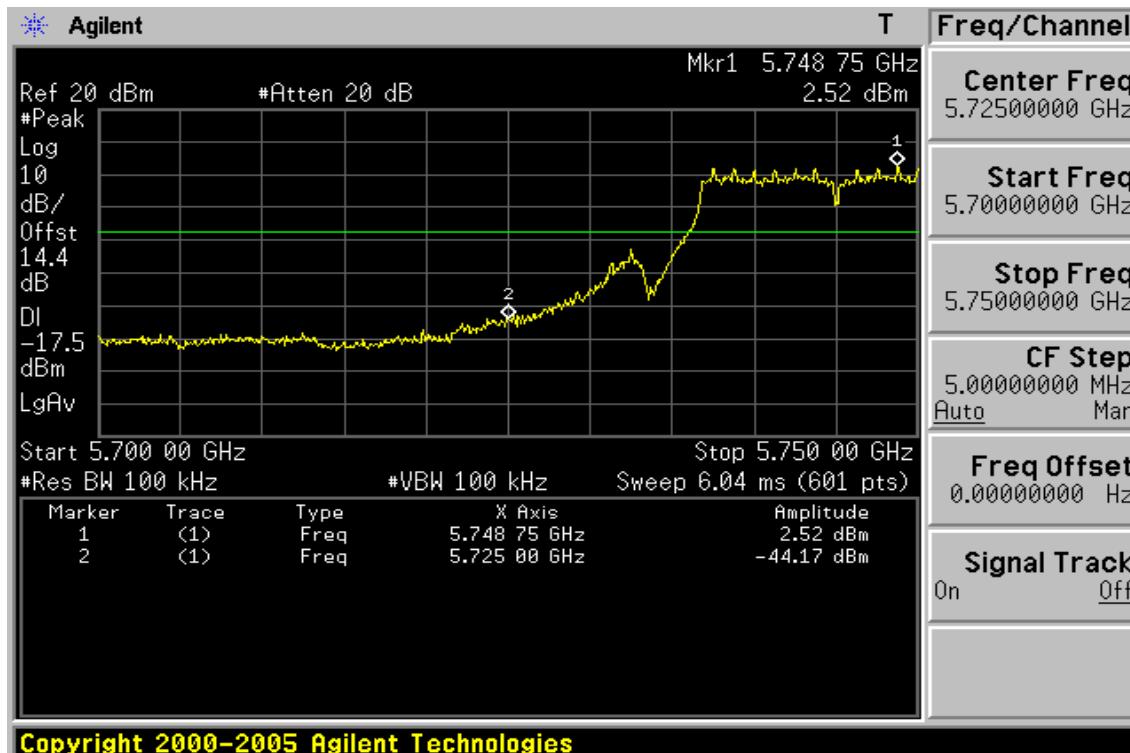
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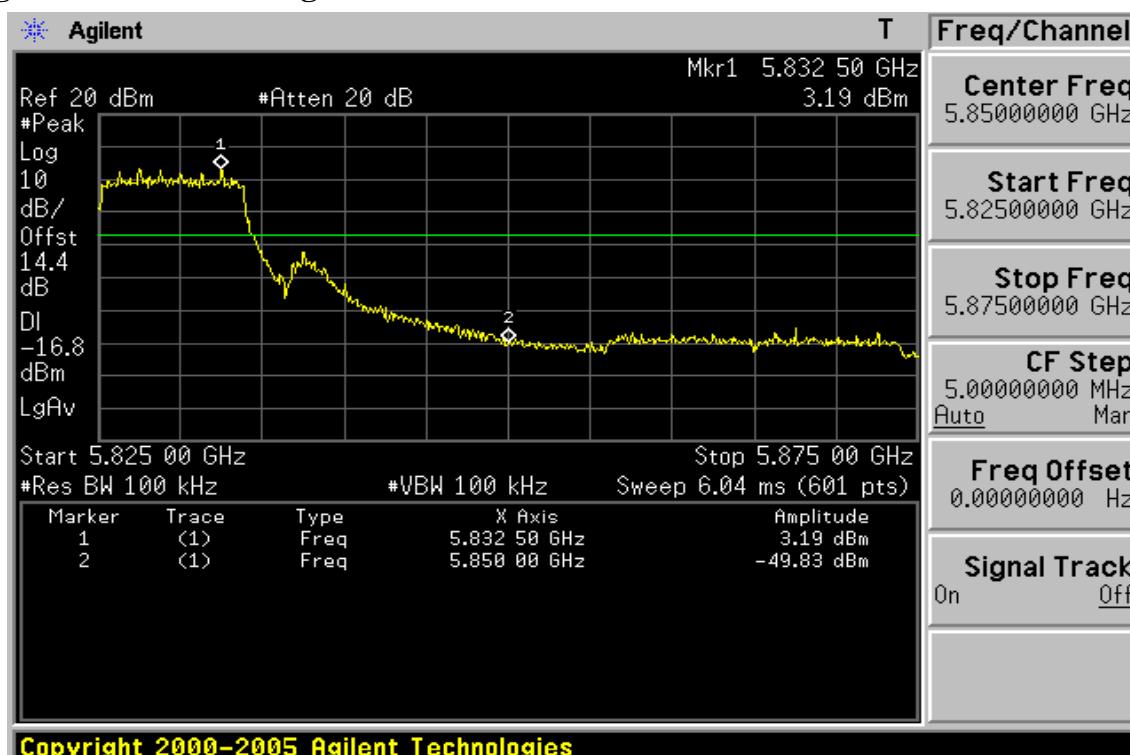
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802.11n_20M (5GHz)

Band Edges Test Data CH-Low



Band Edges Test Data CH-High

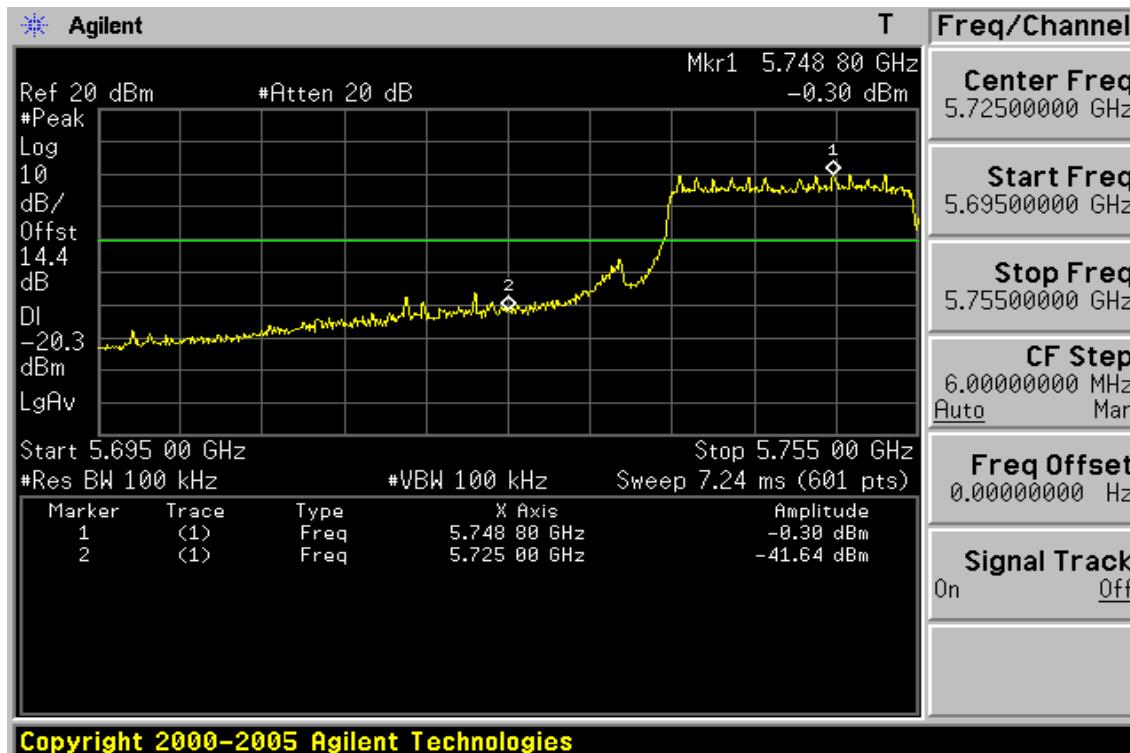


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802.11n_40M (5GHz)

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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10 SPURIOUS RADIATED EMISSION TEST

10.1 Standard Applicable

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

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

10.2 Measurement Equipment Used:

10.2.1 Conducted Emission at antenna port:

Refer to section 7.2 for details.

10.2.2 Radiated emission:

Refer to section 9.2.2 for details.

10.3 Test SET-UP:

10.3.1 Conducted Emission at antenna port:

Refer to section 7.3 for details.

10.3.2 Radiated emission:

Refer to section 9.3.2 for details.

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10.4 Measurement Procedure:

Radiated Emission:

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

Conducted Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 100K & VBW = 300K on Spectrum.
3. Sweep the frequency to determine spurious emission as seen on spectrum from span of 30 to 3G, 3G to 8G, 8G to 13G, 13G to 18G and 18G to 26.5GHz
4. Via Software, combine 5 spans of frequency range into one plot
5. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the emission for MIMO mode.

Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

10.5 Field Strength Calculation

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

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

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

10.6 Measurement Result:

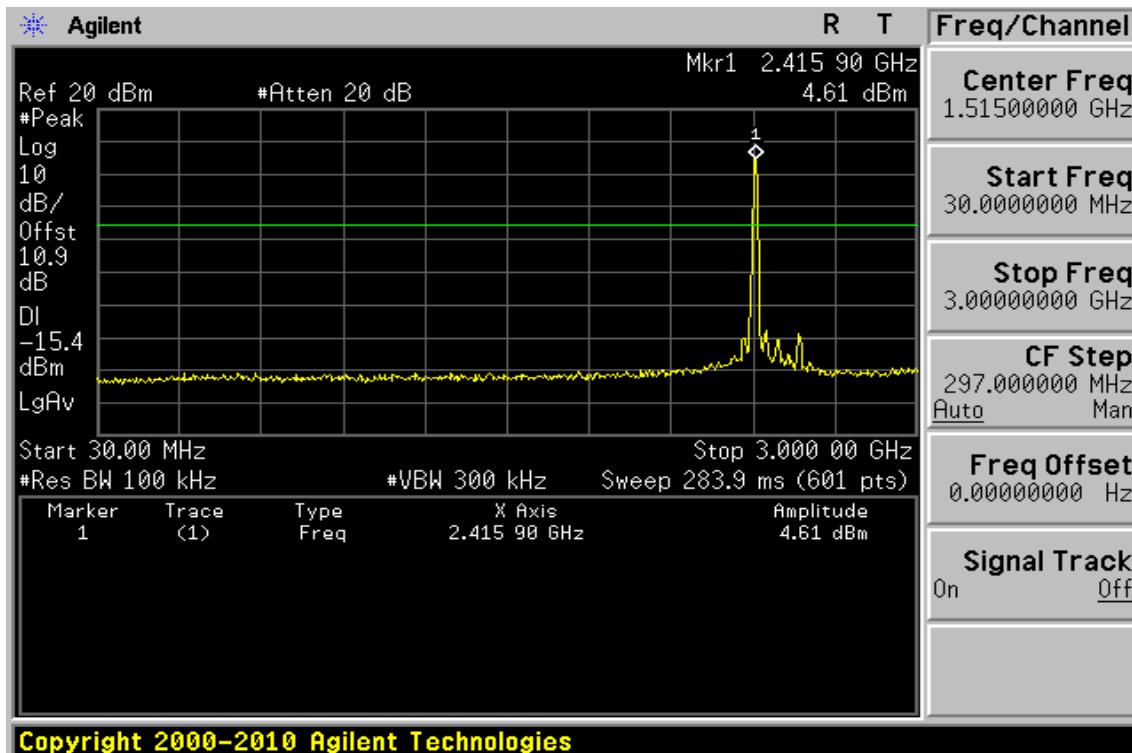
Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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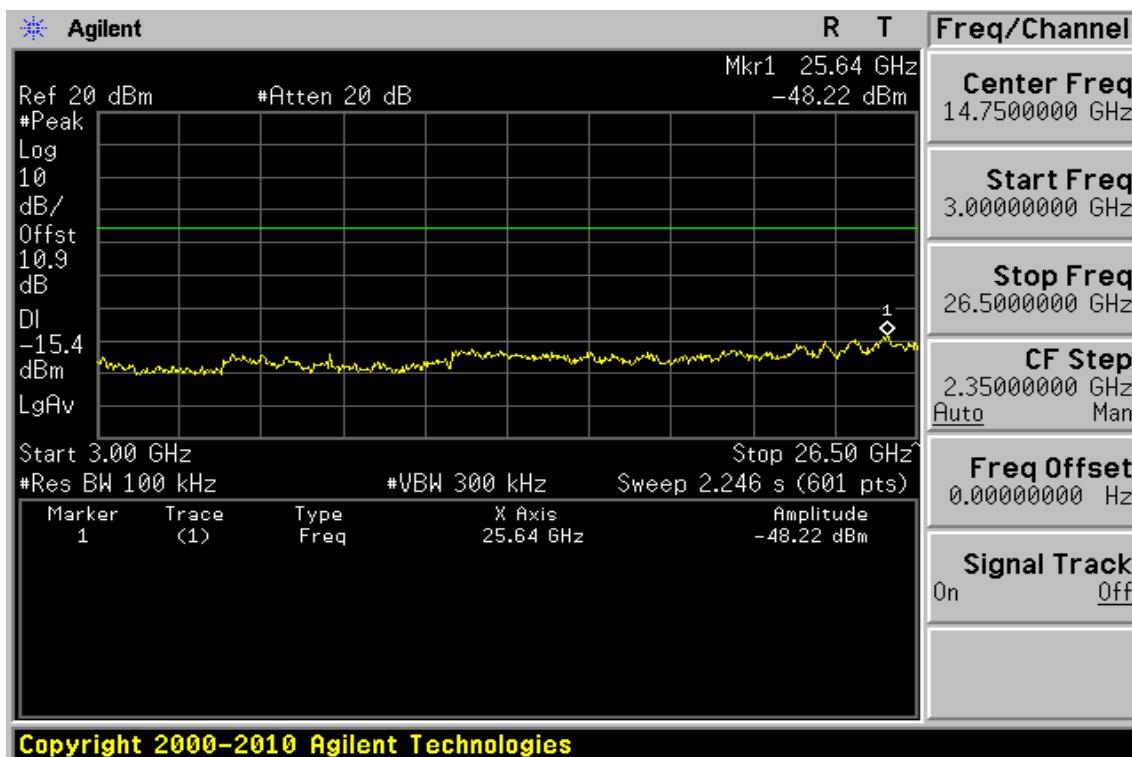
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Conducted Spurious Emission Measurement Result (802.11b)

Ch Low 30MHz – 3GHz



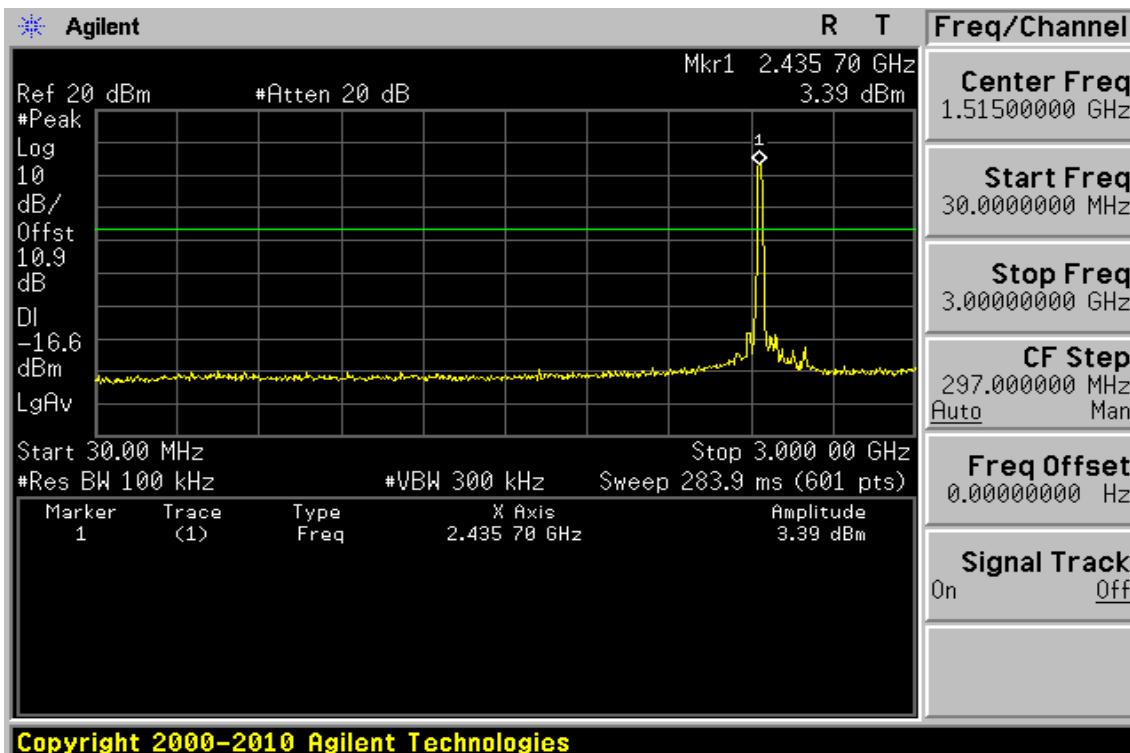
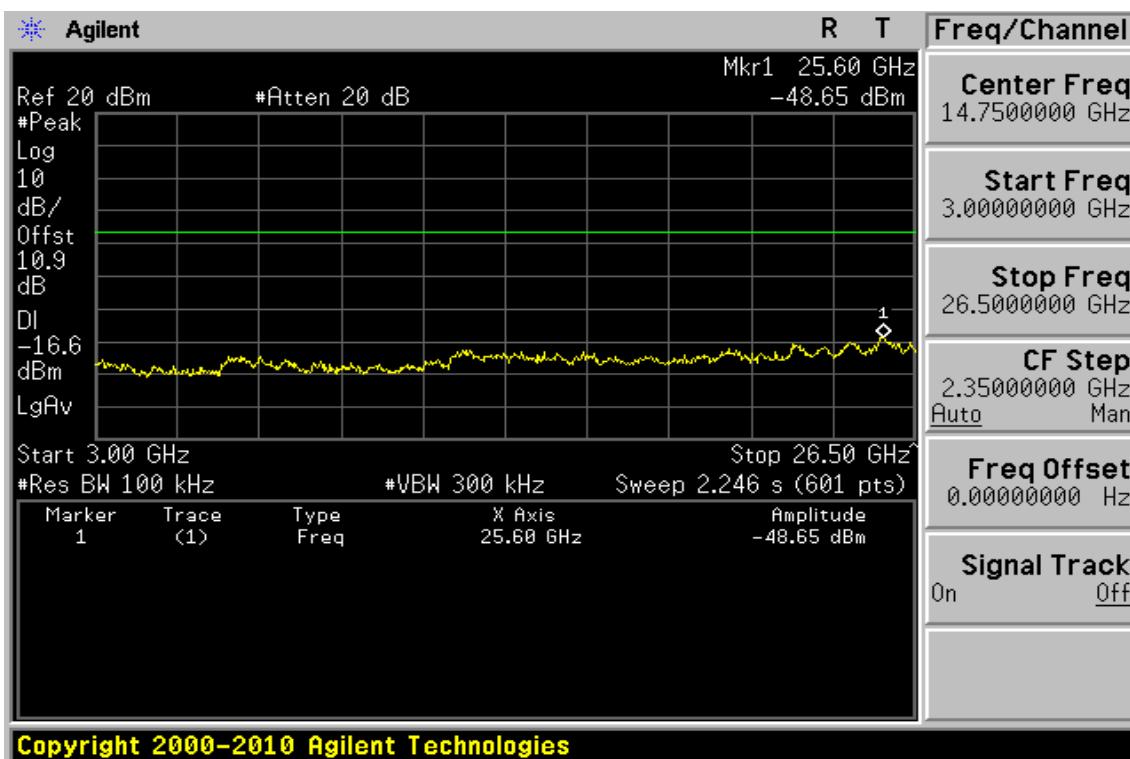
Ch Low 3GHz – 26.5GHz



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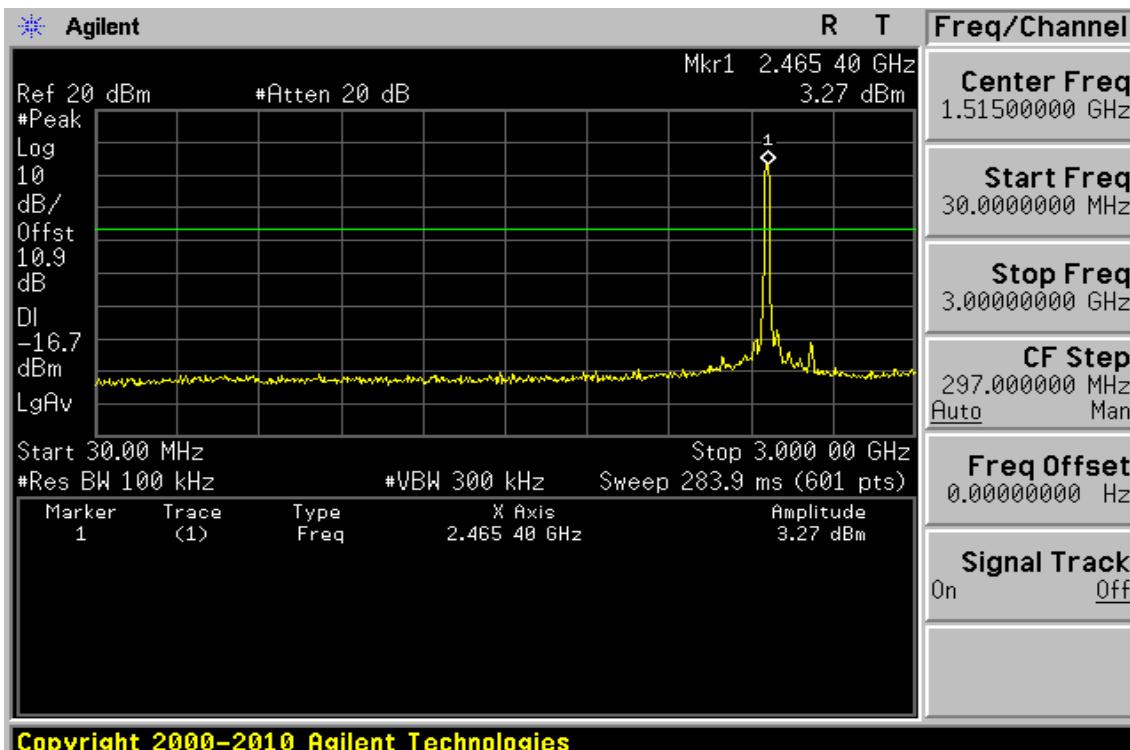
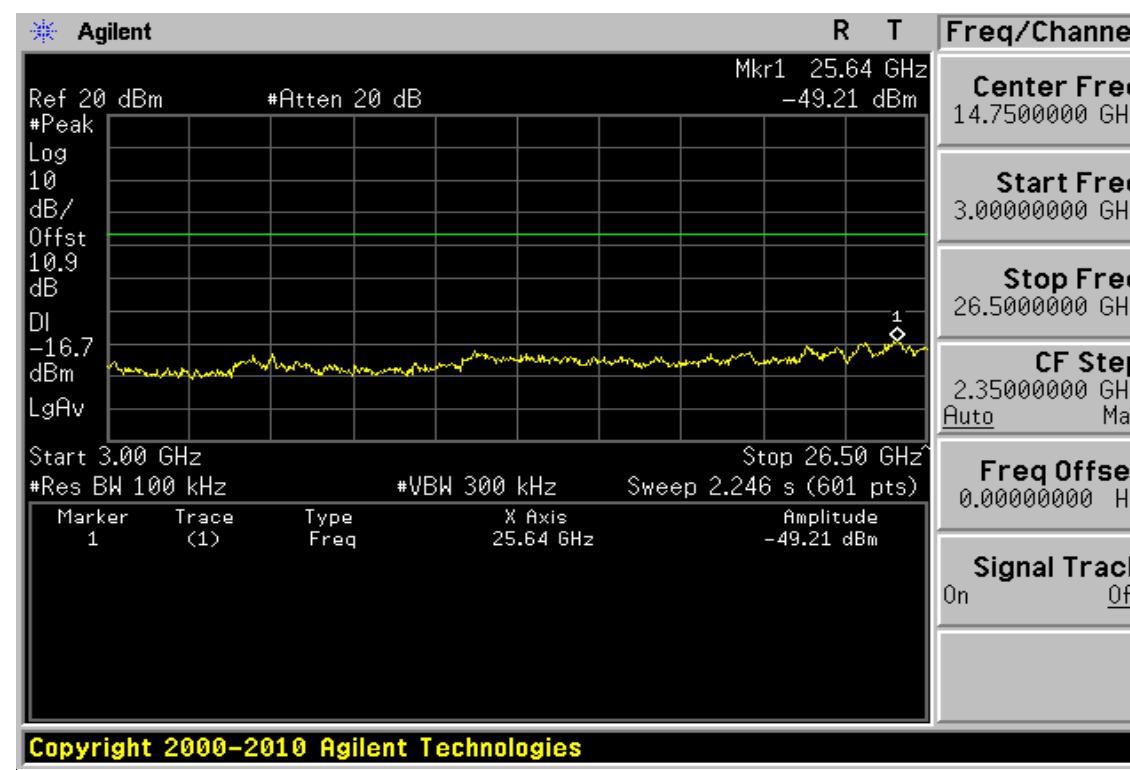
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Ch Mid 30MHz – 3GHz

Ch Mid 3GHz – 26.5GHz


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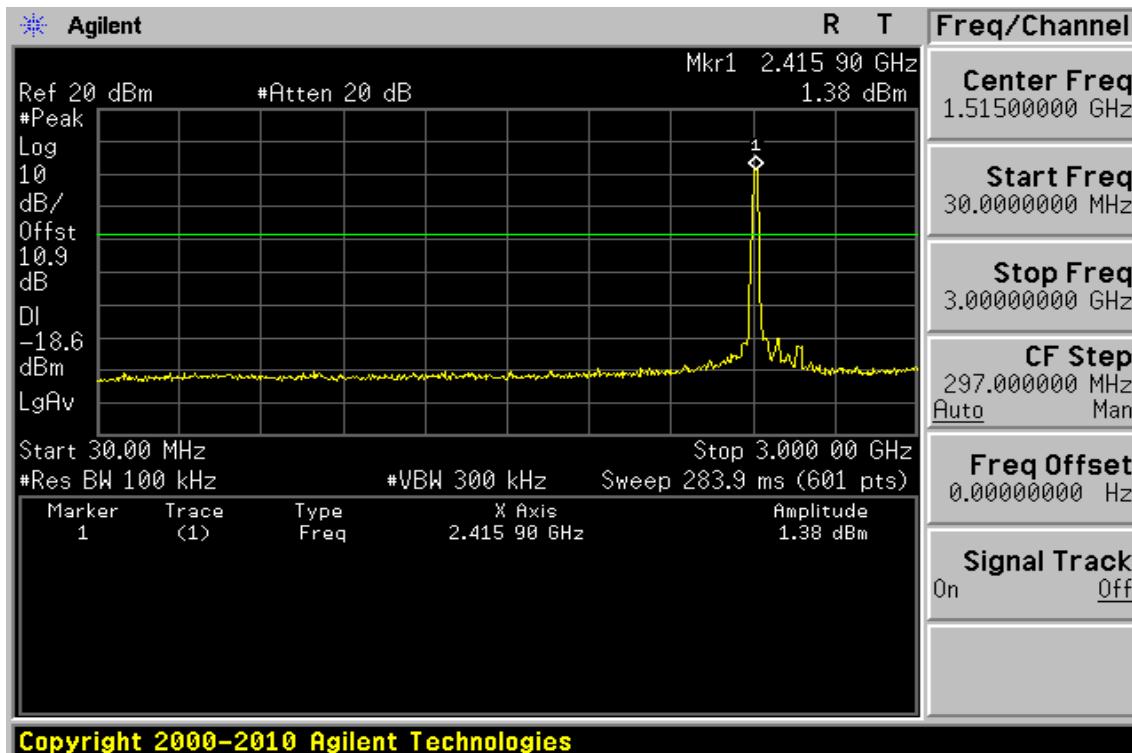
Ch High 30MHz – 3GHz

Ch High 3GHz – 26.5GHz


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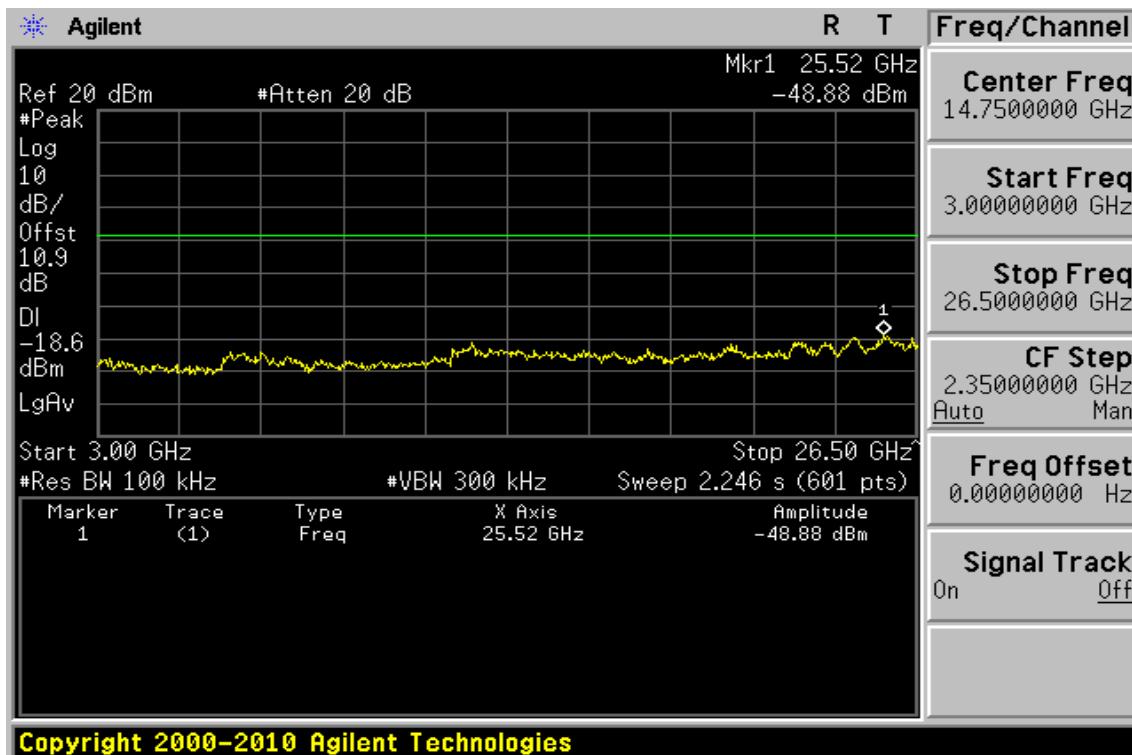
Conducted Spurious Emission Measurement Result (802.11g)

Ch Low 30MHz – 3GHz



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Ch Low 3GHz – 26.5GHz



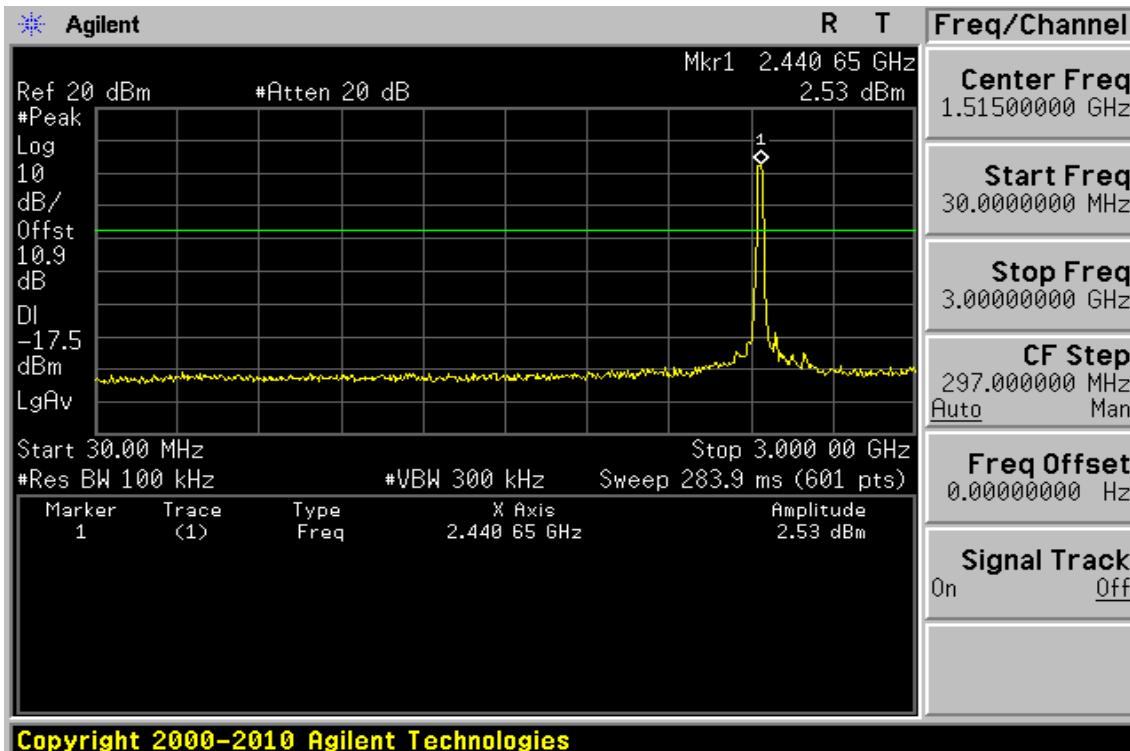
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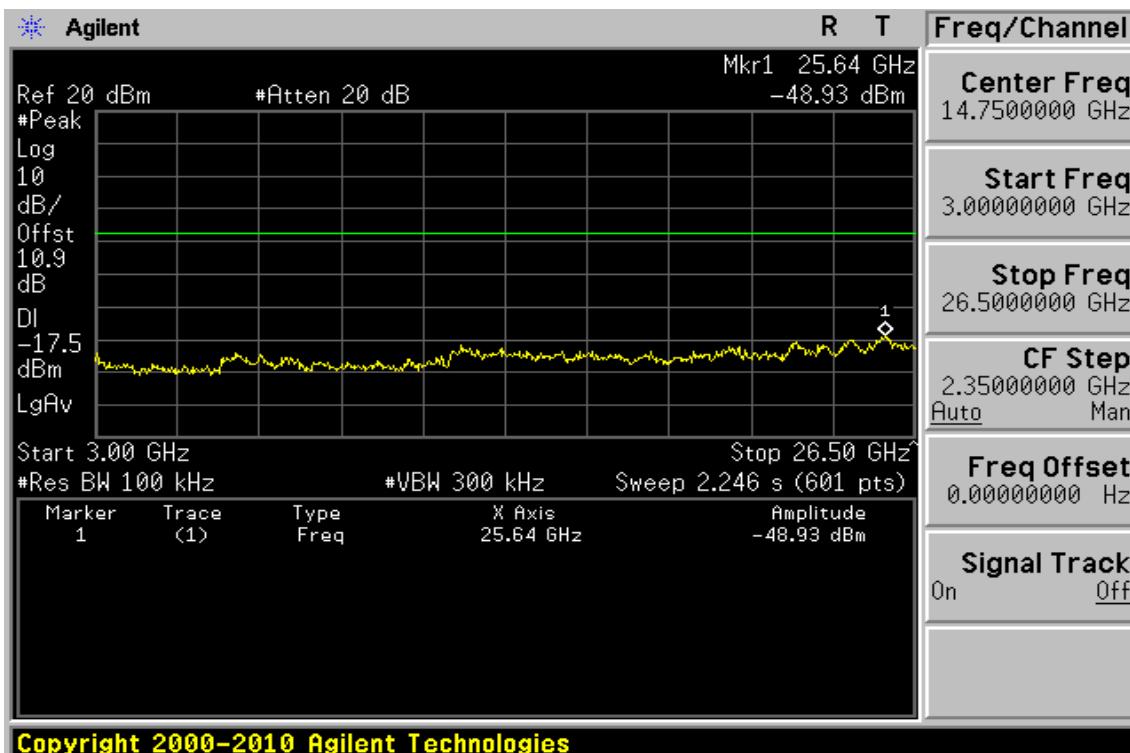
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Ch Mid 30MHz – 3GHz

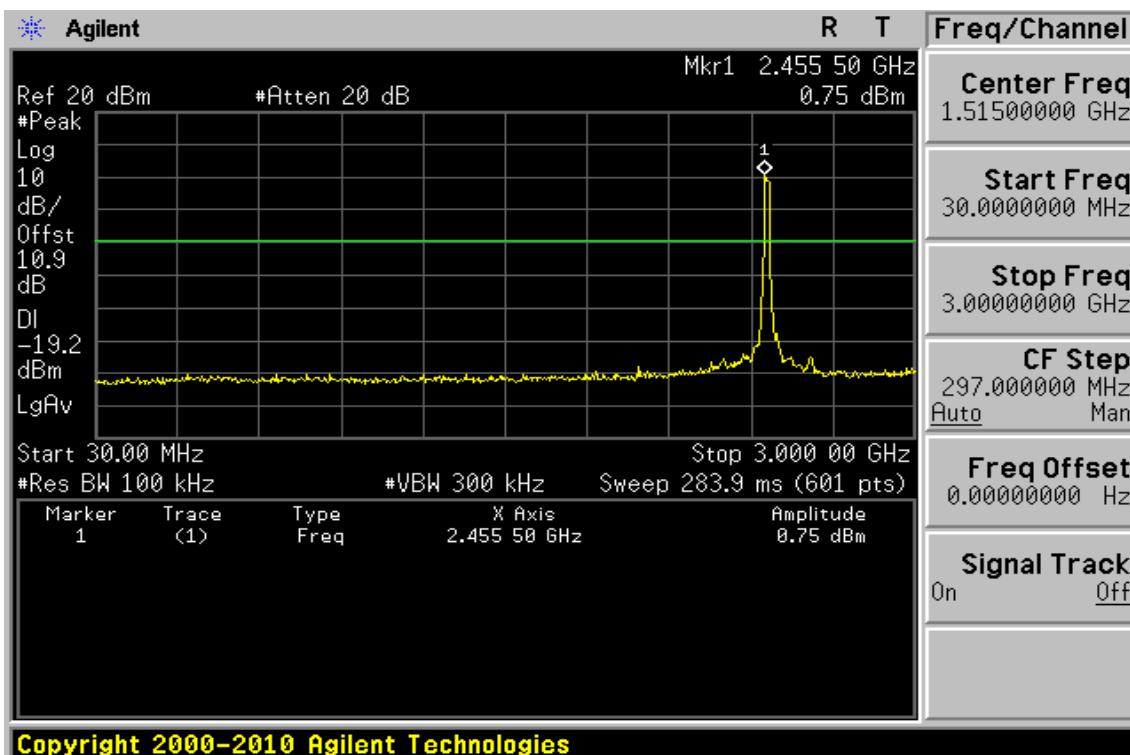
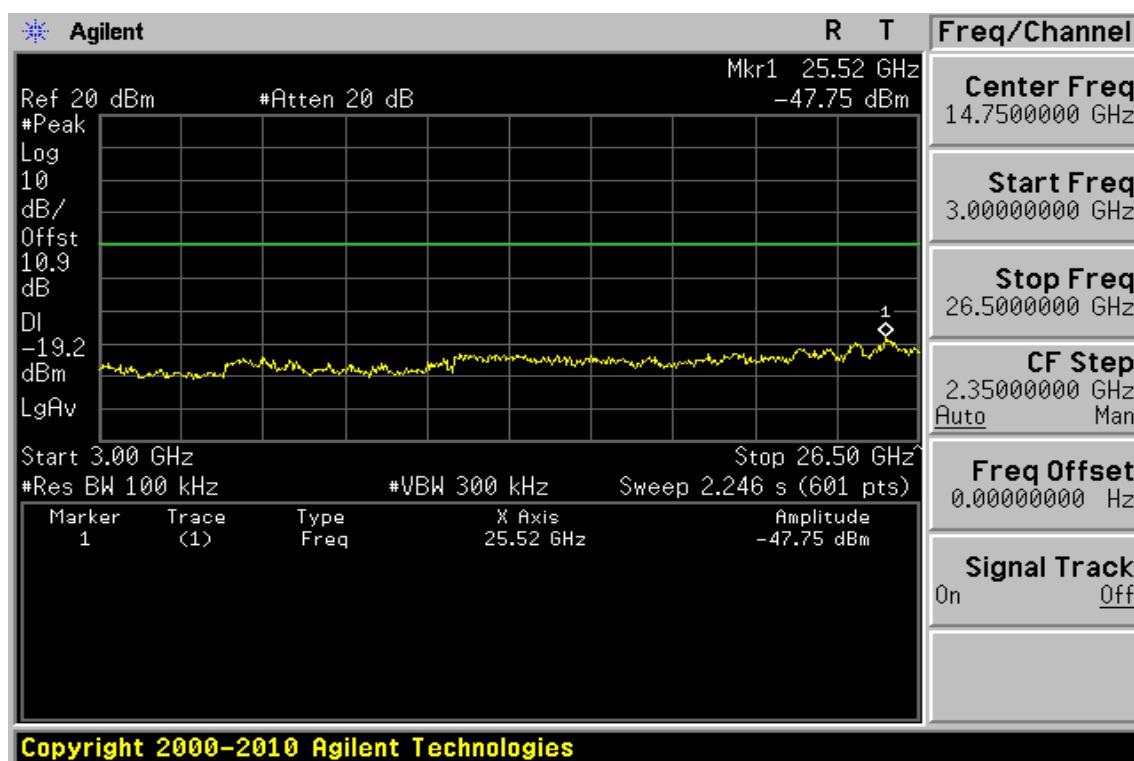


Ch Mid 3GHz – 26.5GHz



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Ch High 30MHz – 3GHz

Ch High 3GHz – 26.5GHz


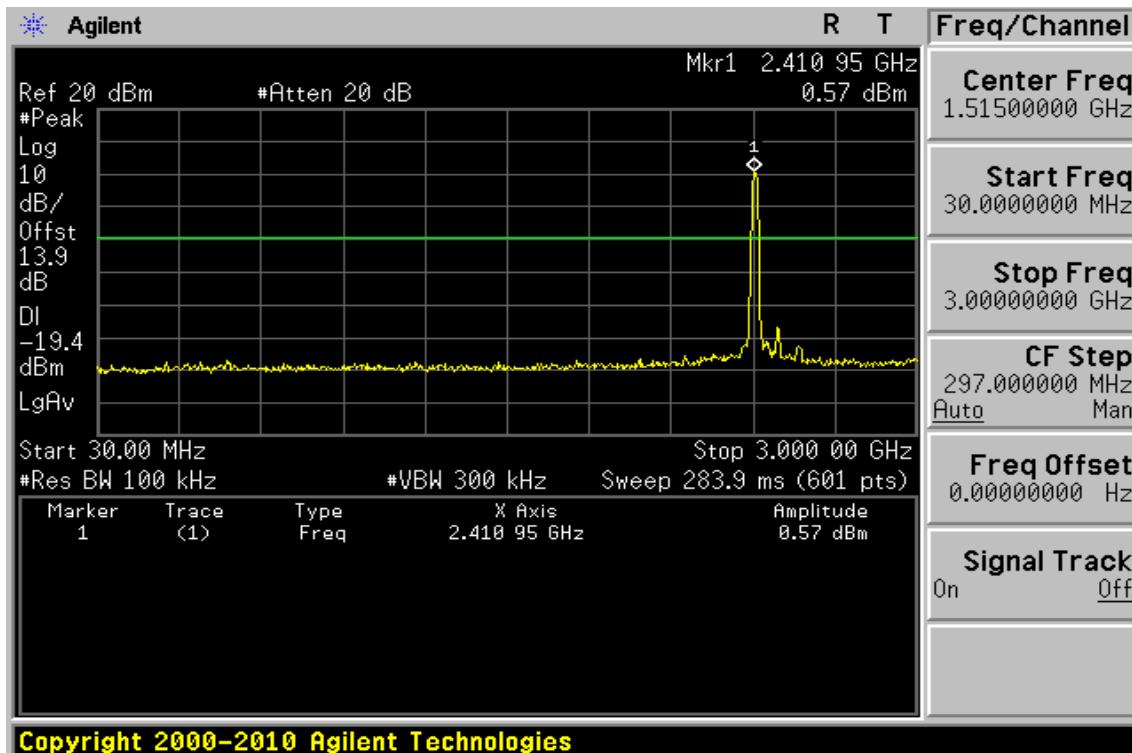
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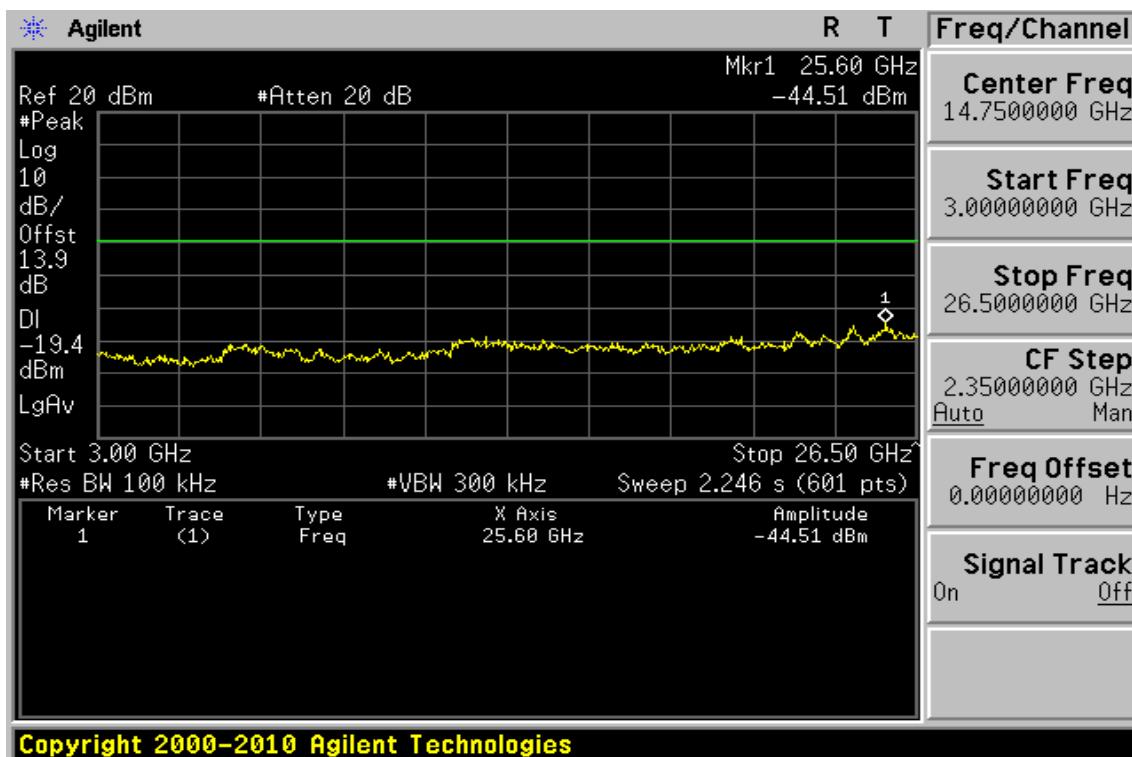
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Conducted Spurious Emission Measurement Result (802.11n_20M (2.4GHz))

Ch Low 30MHz – 3GHz



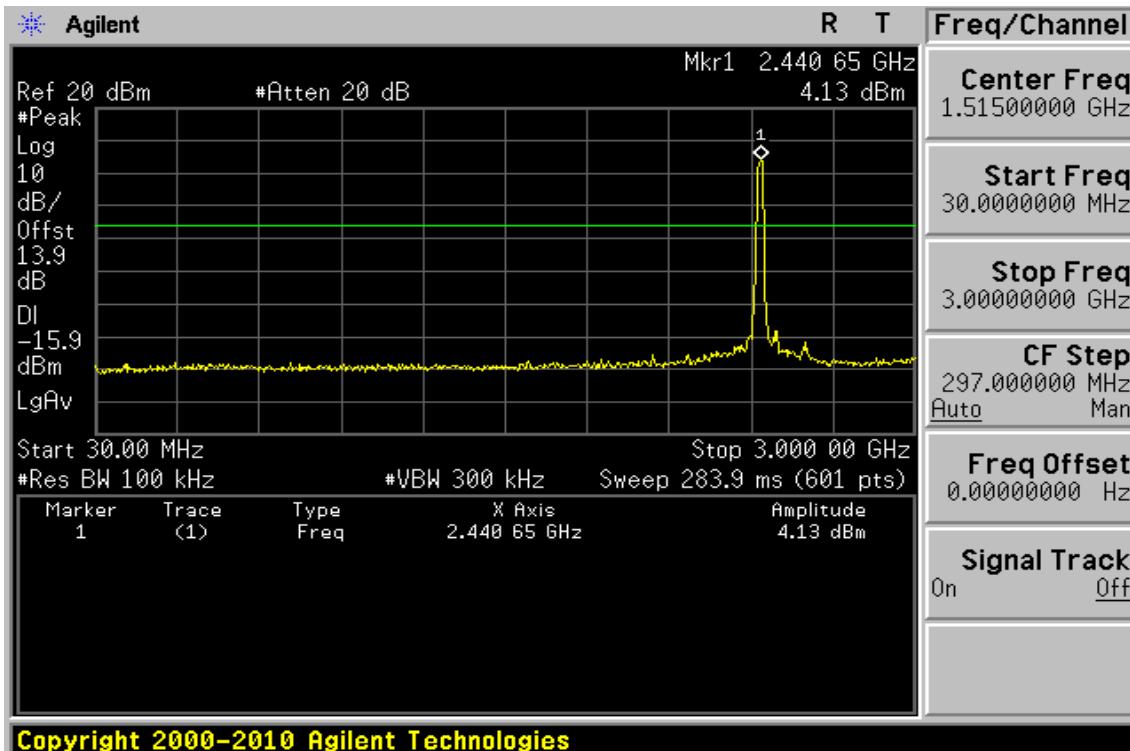
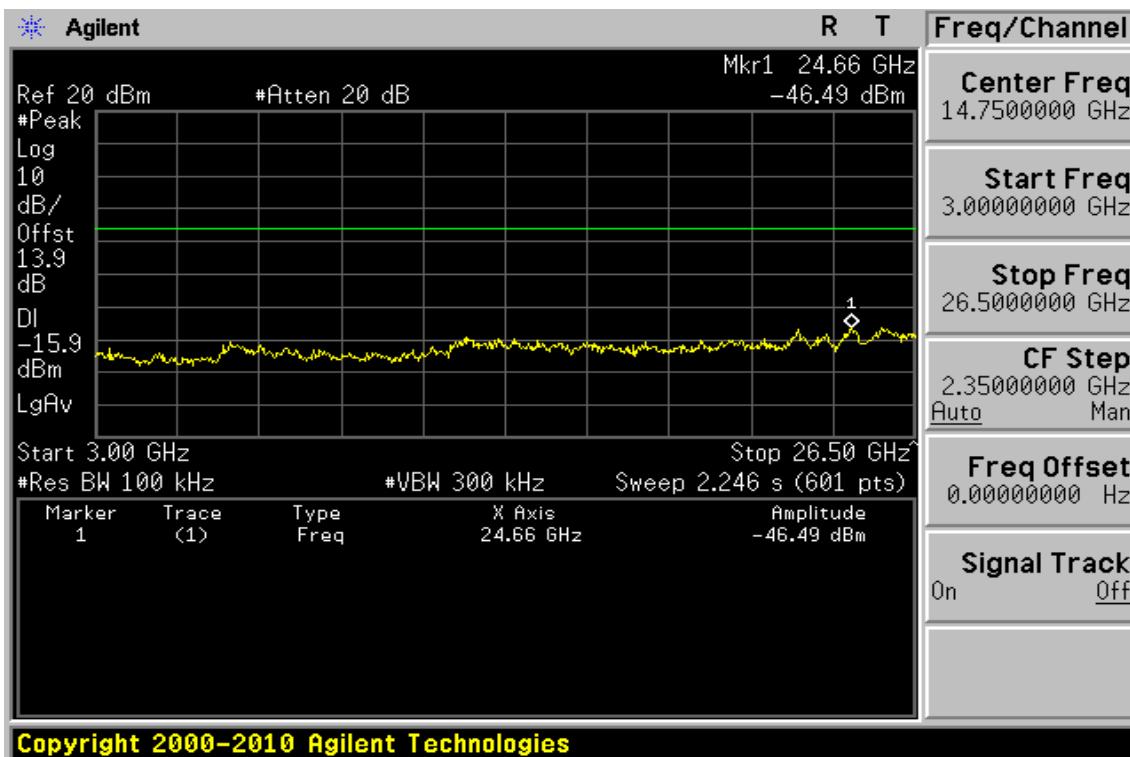
Ch Low 3GHz – 26.5GHz



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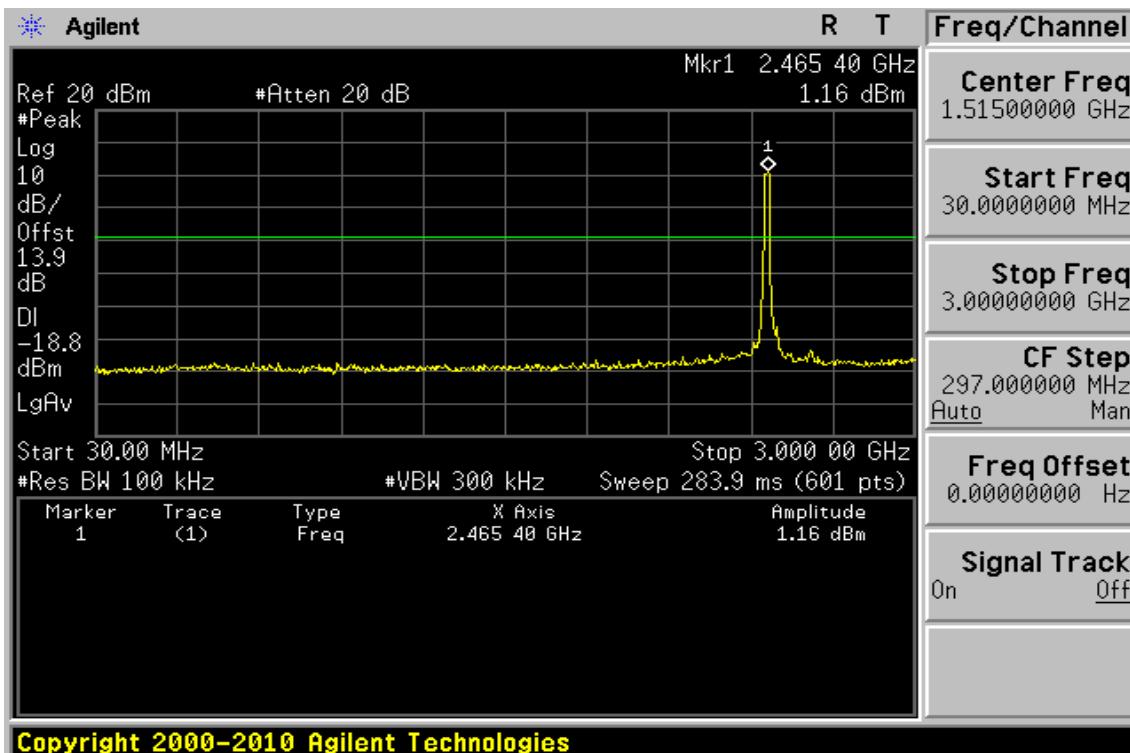
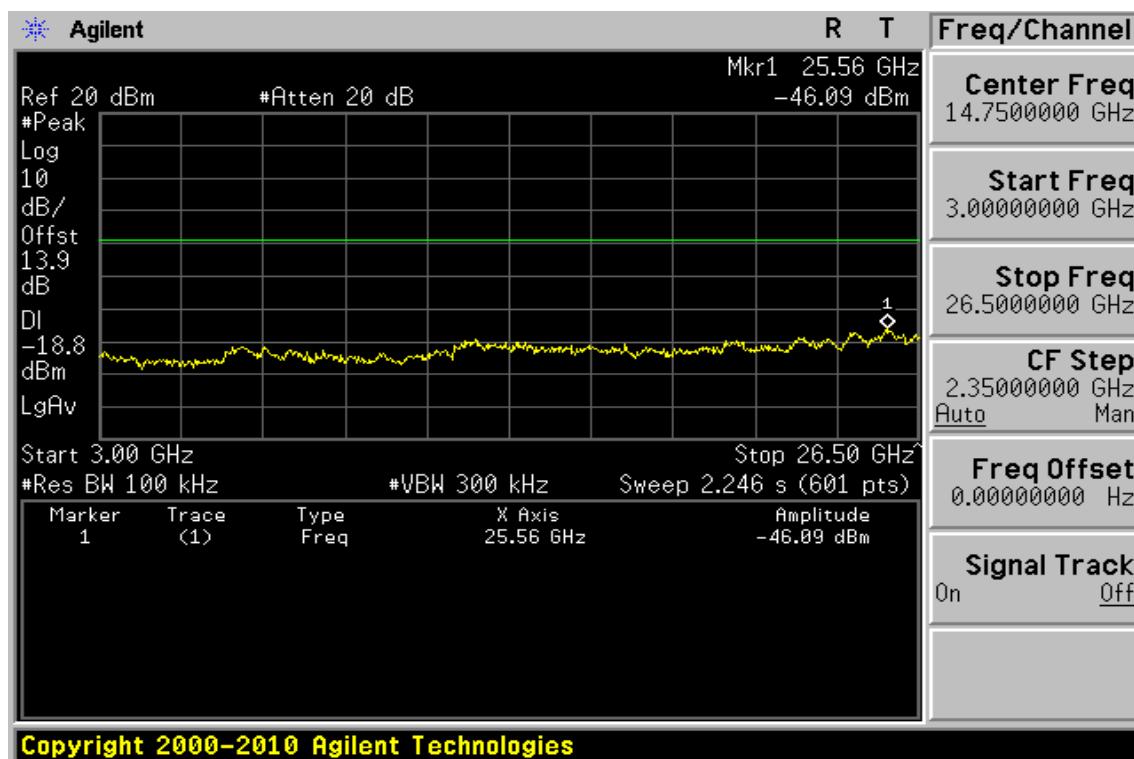
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Ch Mid 30MHz – 3GHz

Ch Mid 3GHz – 26.5GHz


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Ch High 30MHz – 3GHz

Ch High 3GHz – 26.5GHz


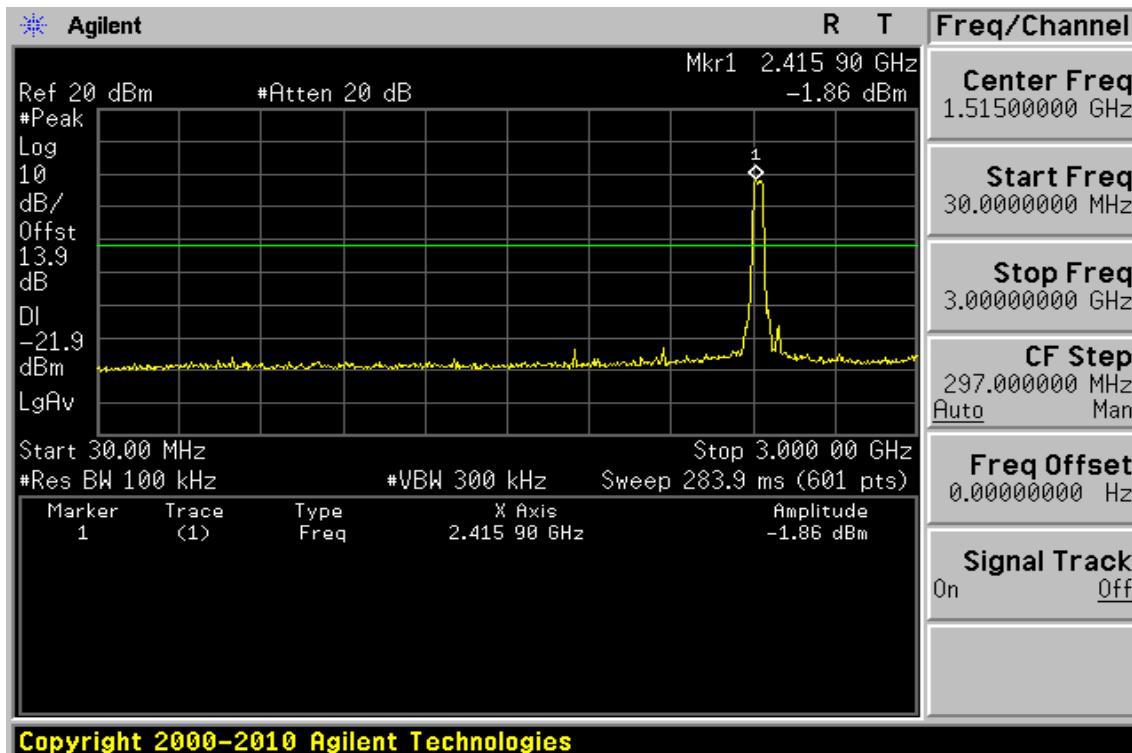
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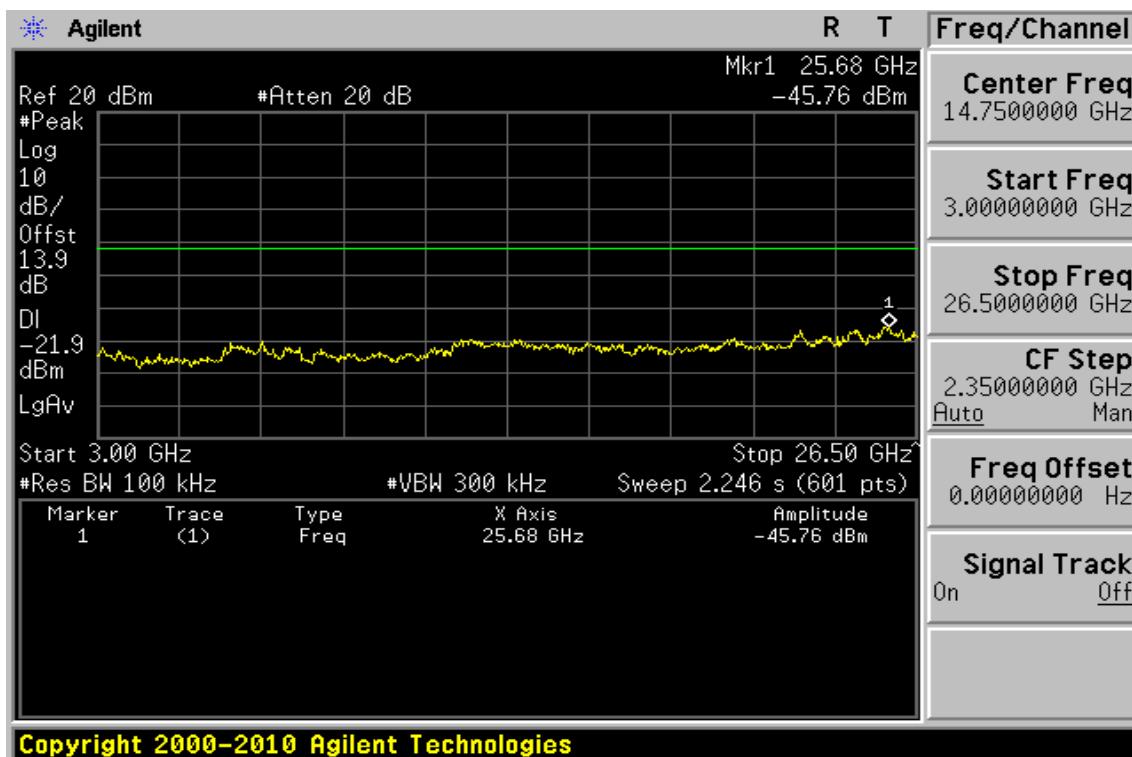
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Conducted Spurious Emission Measurement Result (802.11n_40M (2.4GHz))

Ch Low 30MHz – 3GHz



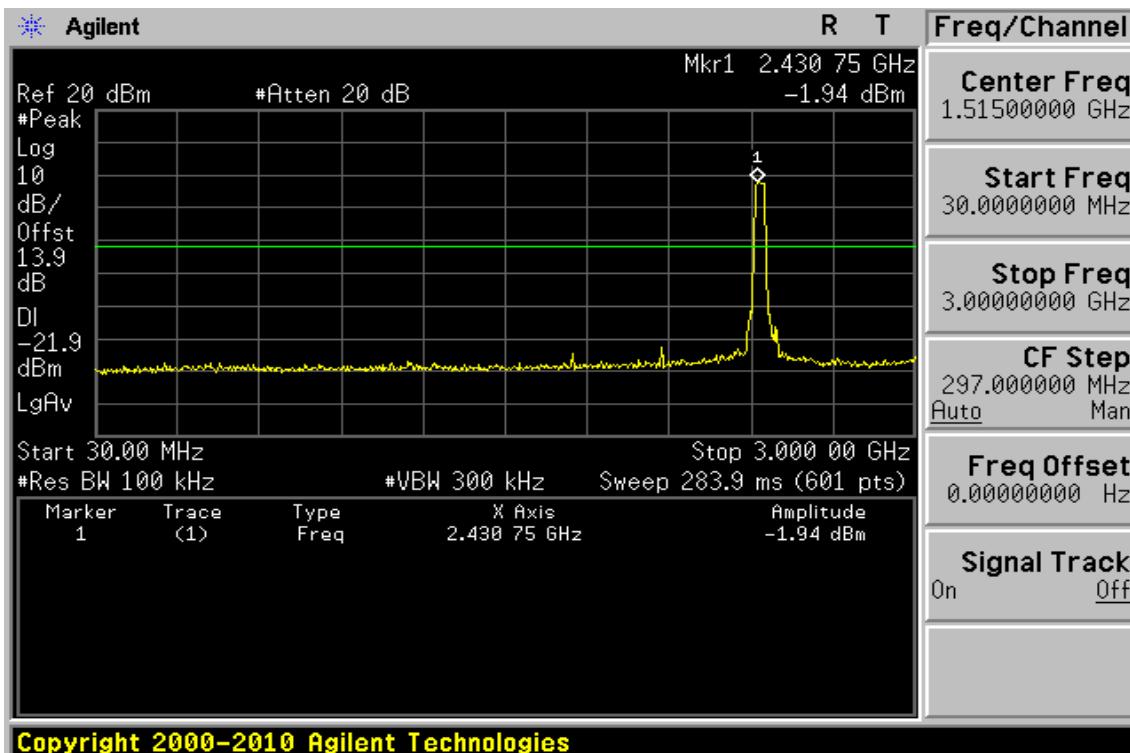
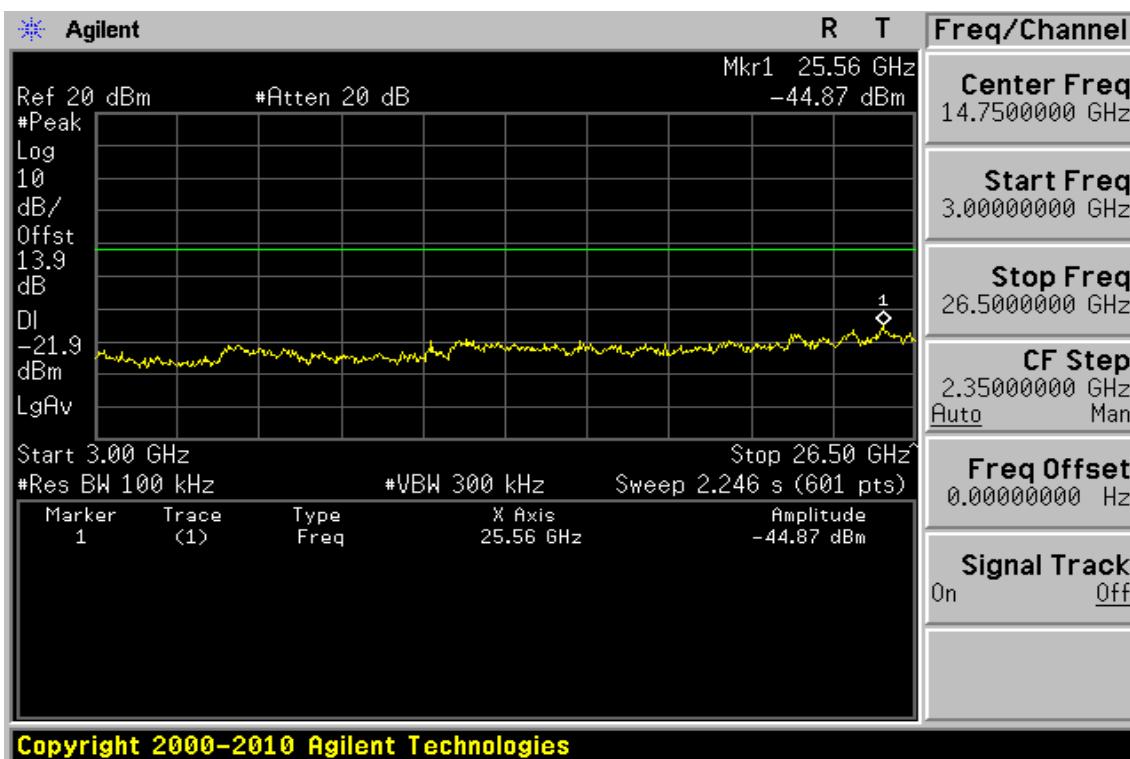
Ch Low 3GHz – 26.5GHz



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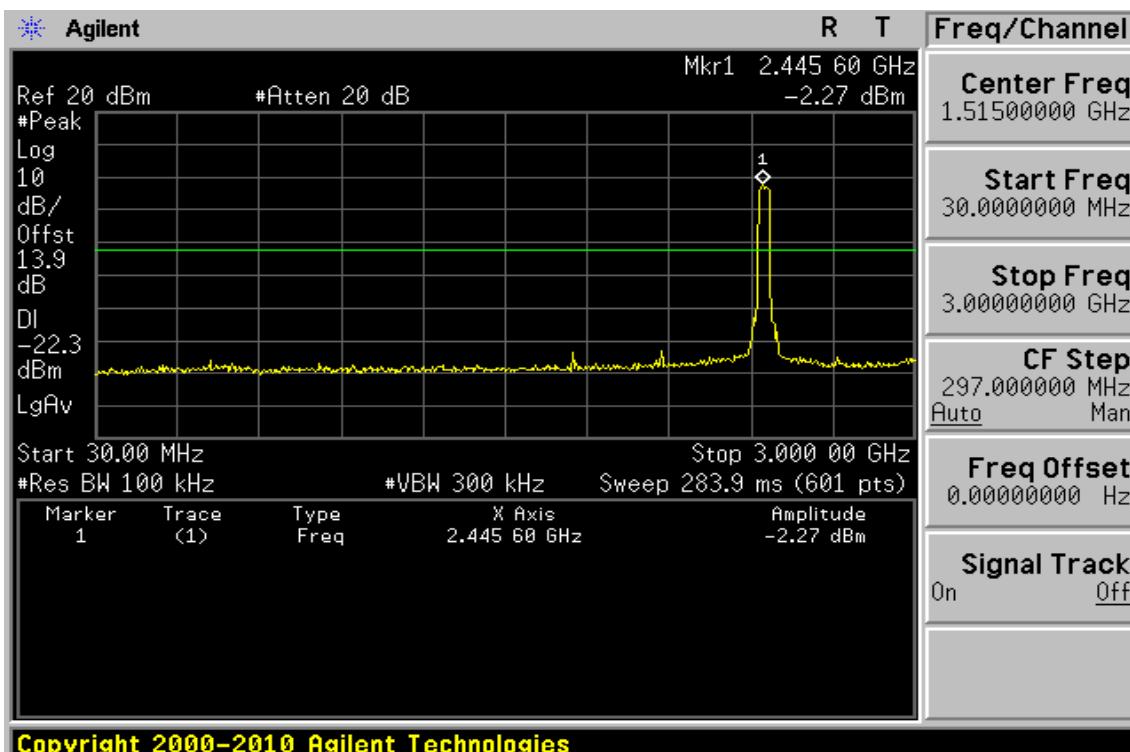
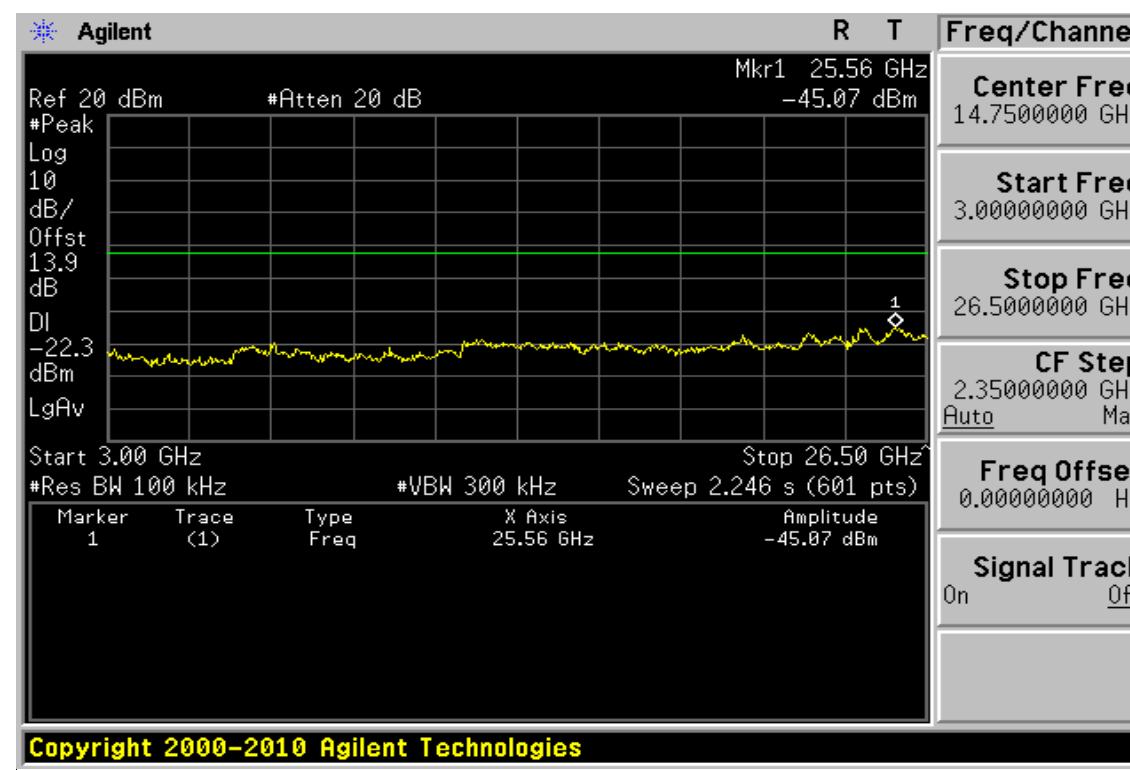
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Ch Mid 30MHz – 3GHz

Ch Mid 3GHz – 26.5GHz


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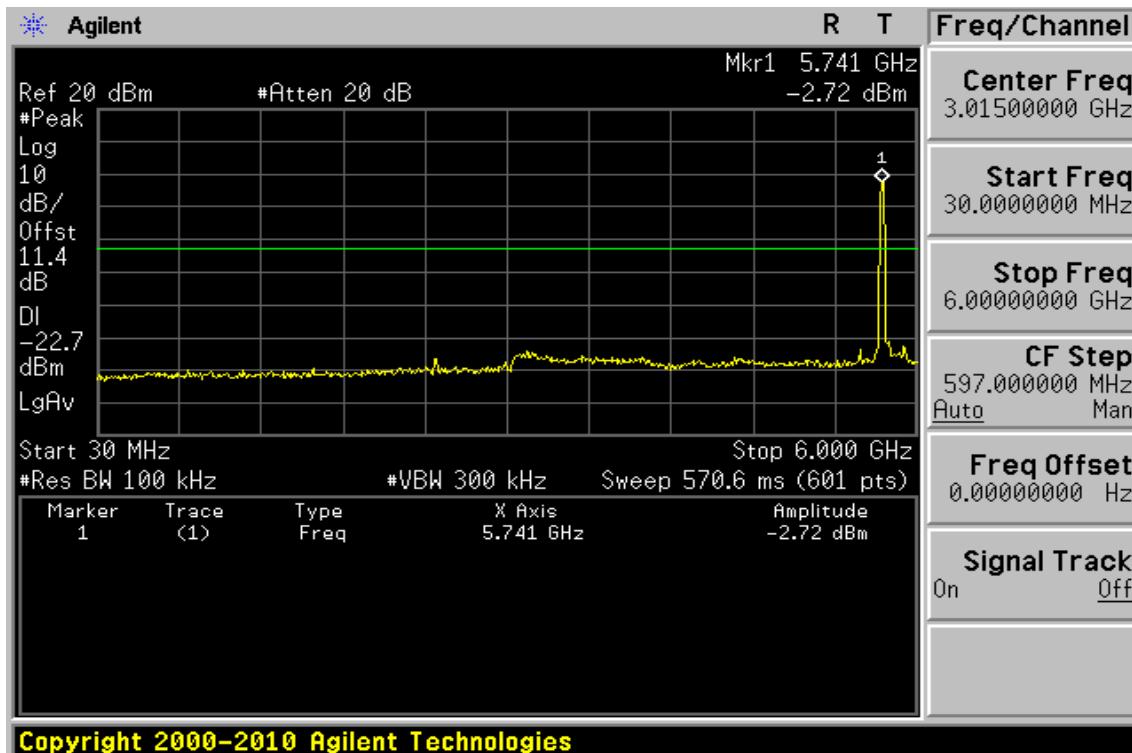
Ch High 30MHz – 3GHz

Ch High 3GHz – 26.5GHz


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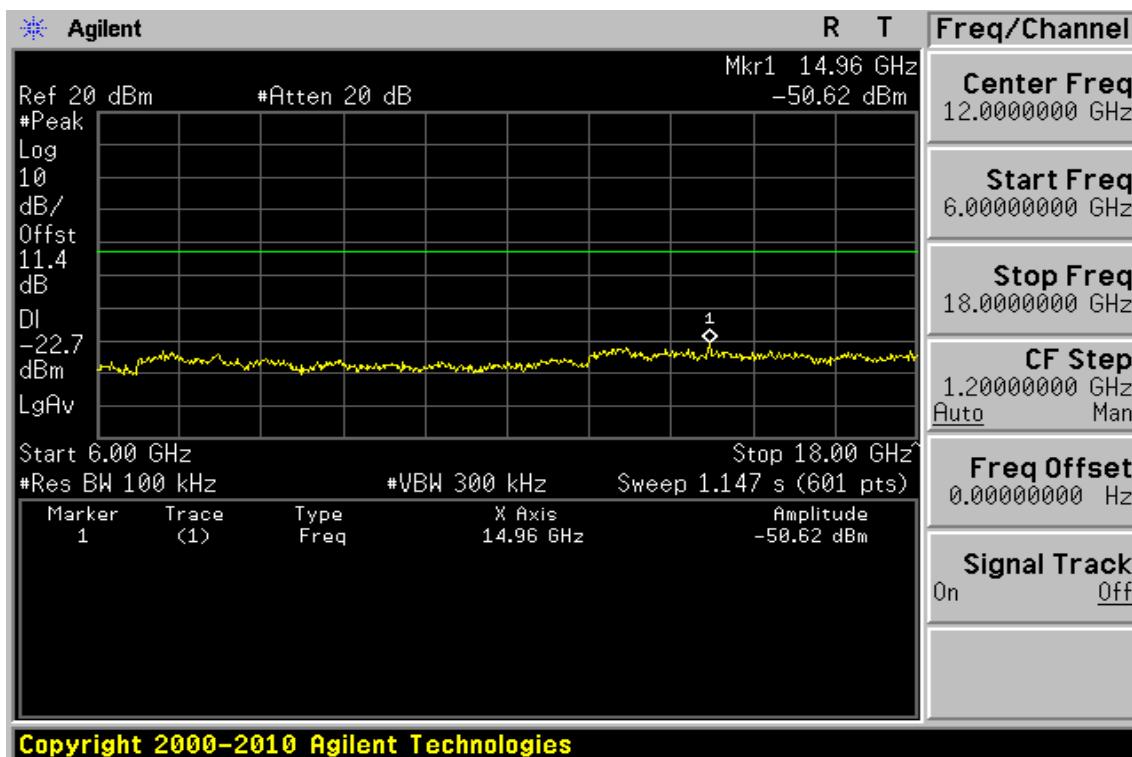
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Conducted Spurious Emission Measurement Result (802.11a)

Ch Low 30MHz – 6GHz

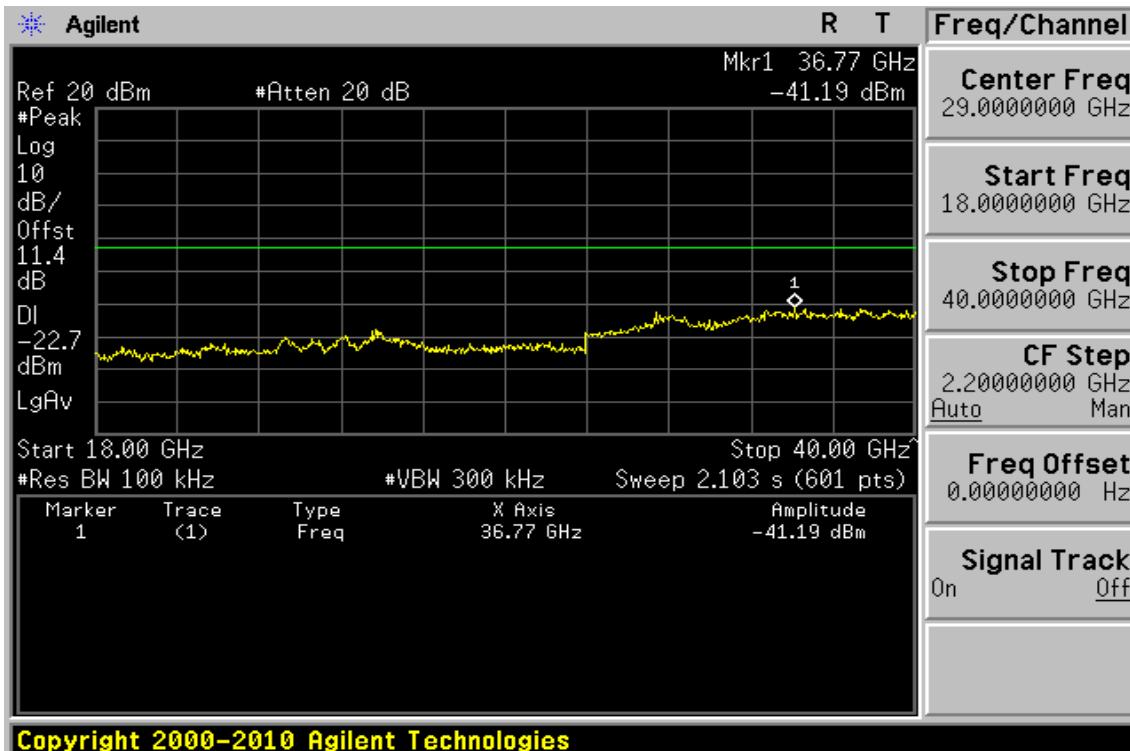
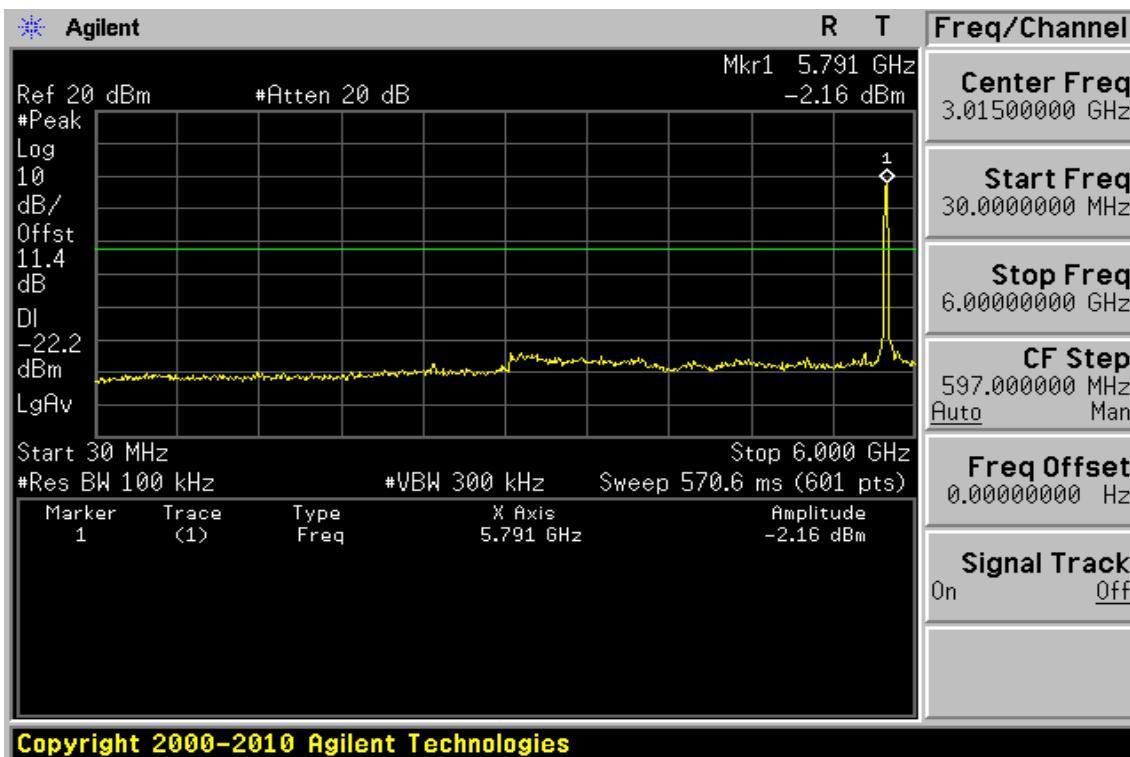


Ch Low 6GHz – 18GHz



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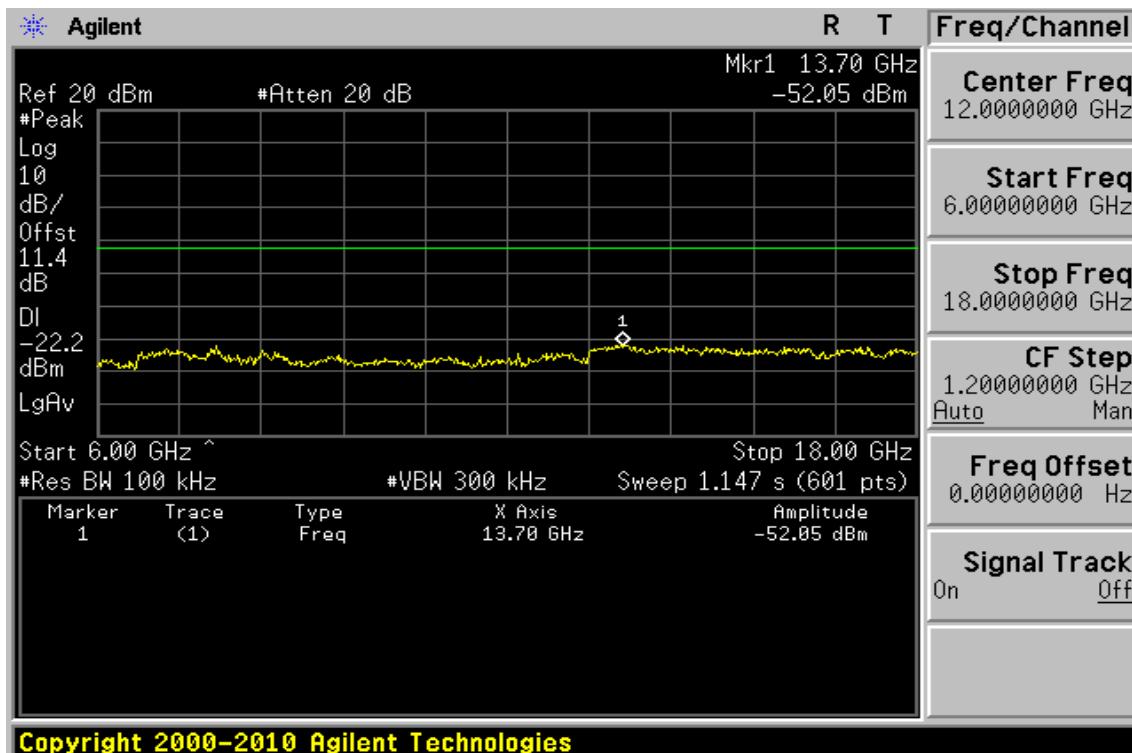
Ch Low 18GHz – 40GHz

Ch Mid 30MHz – 6GHz


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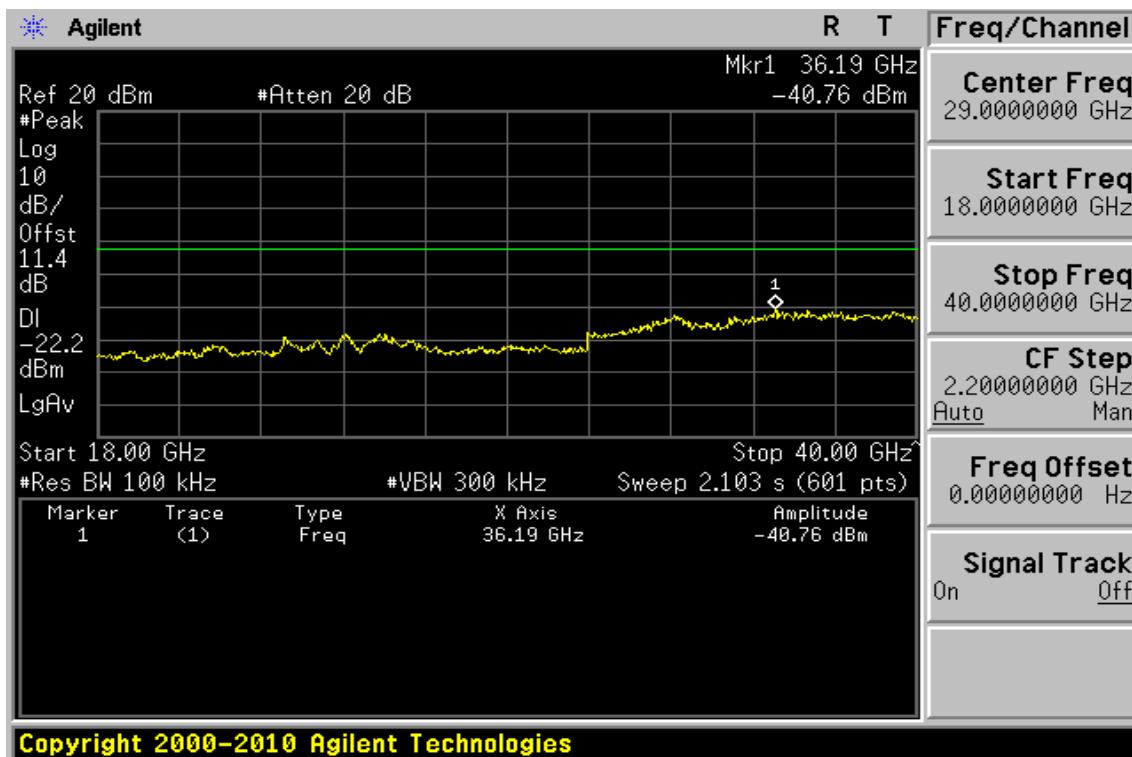
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Ch Mid 6GHz – 18GHz

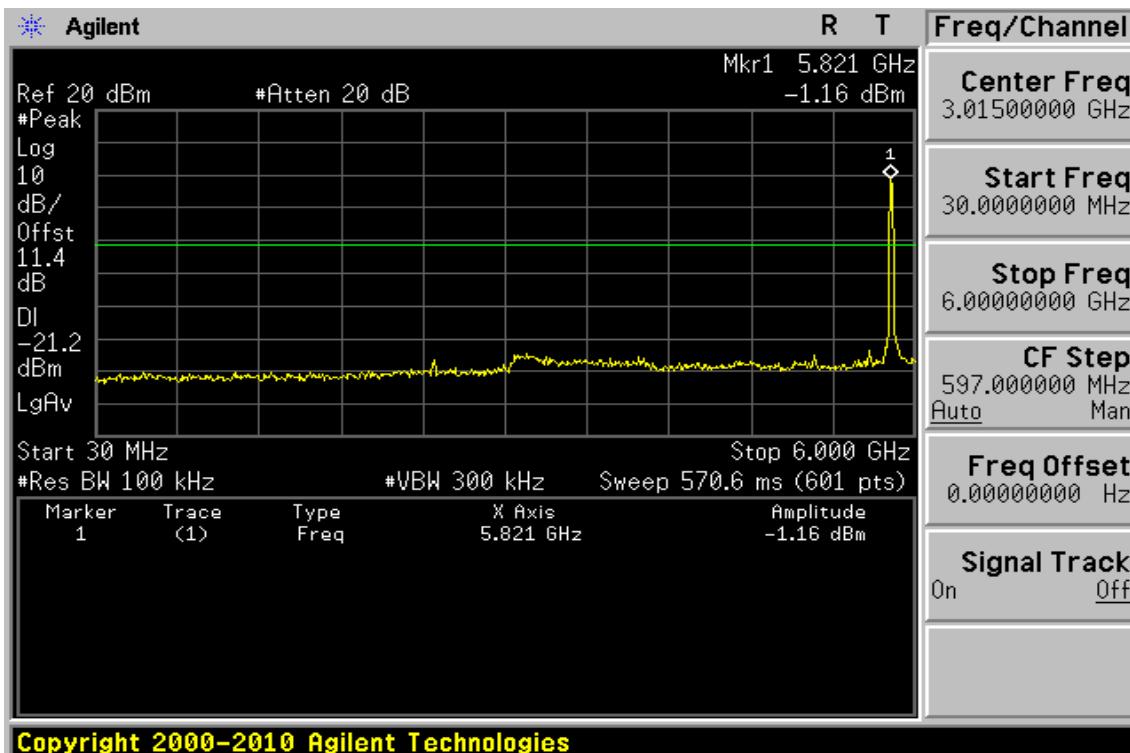
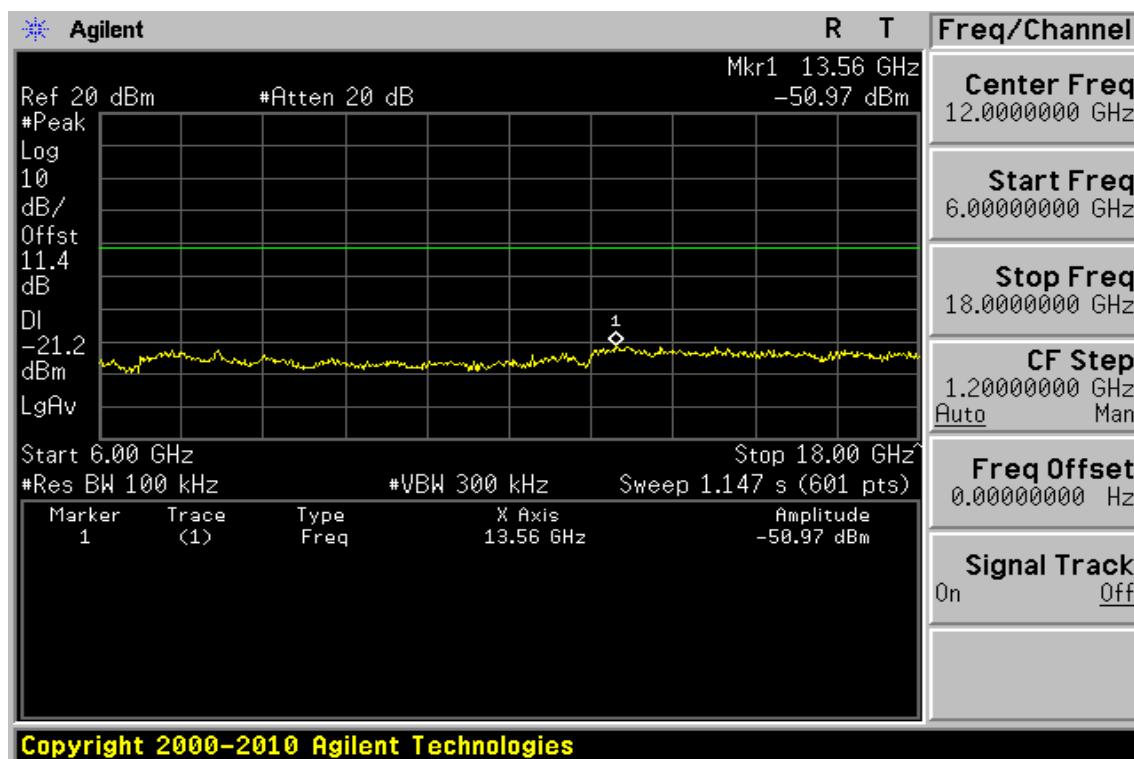


Ch Mid 18GHz – 40GHz



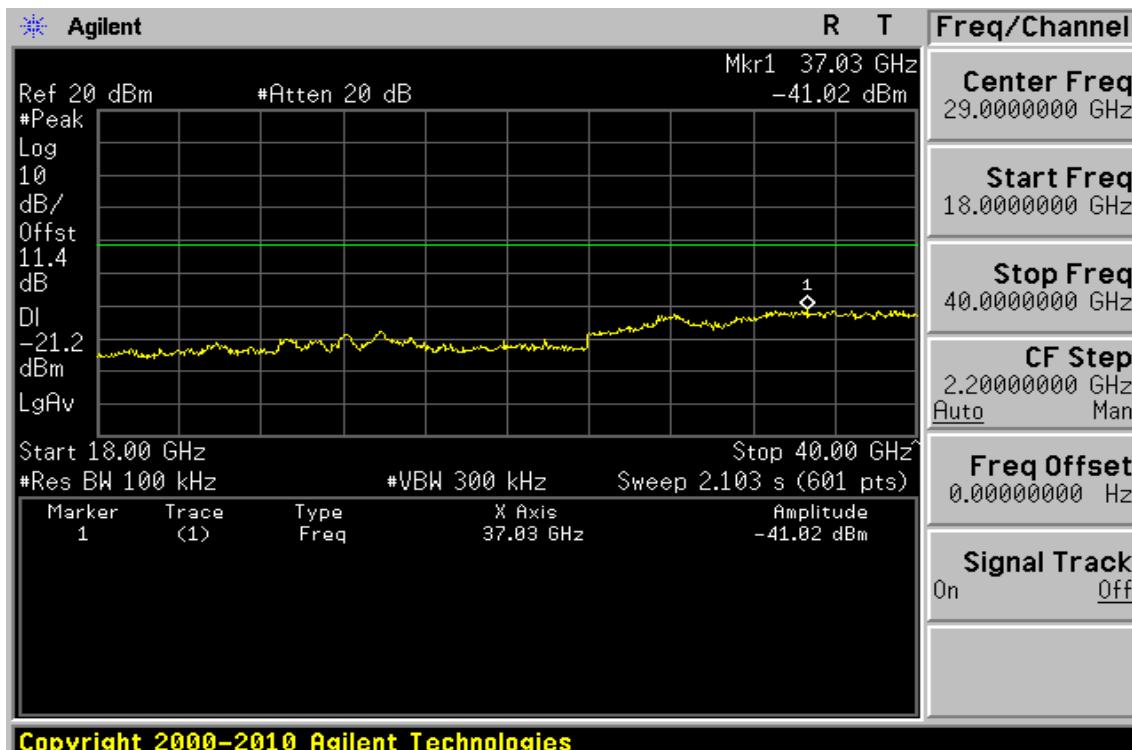
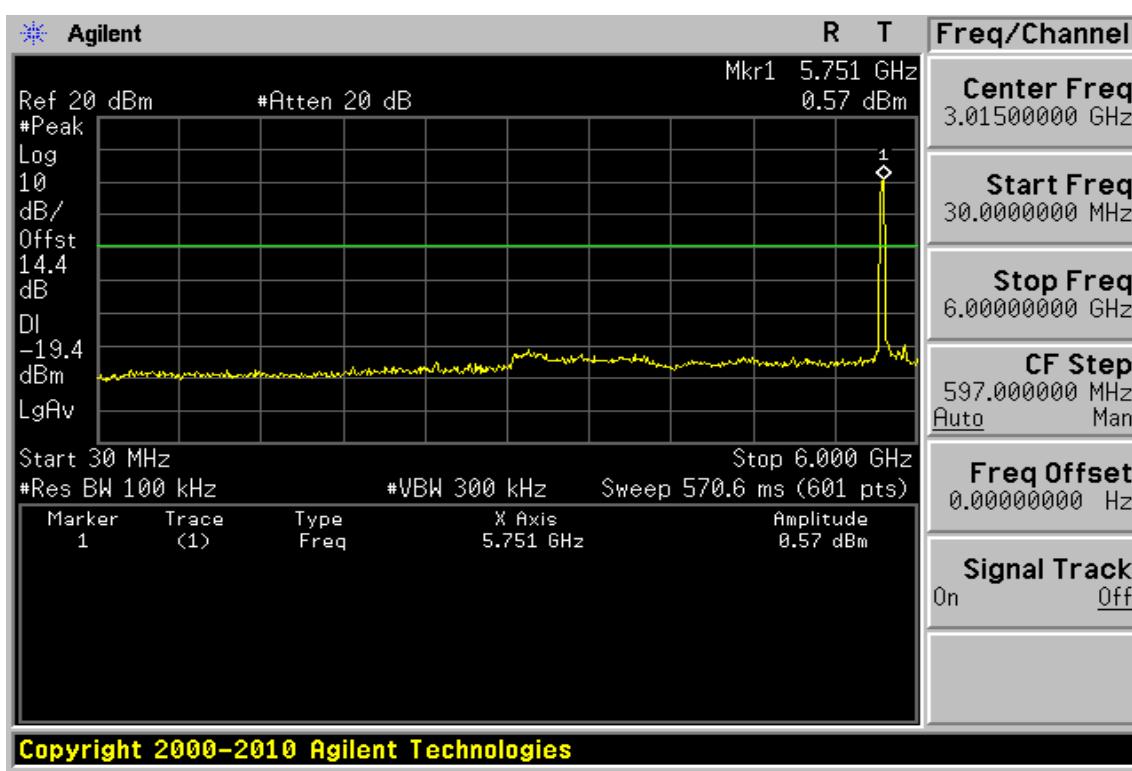
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Ch High 30MHz – 6GHz

Ch High 6GHz – 18GHz


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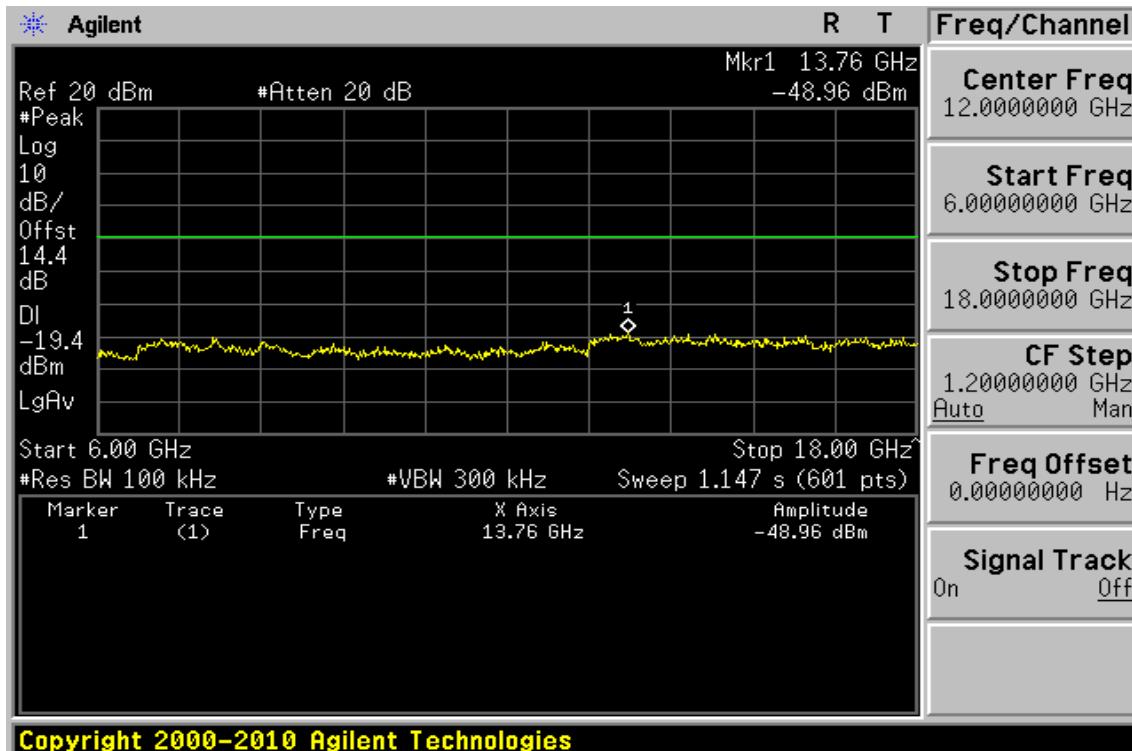
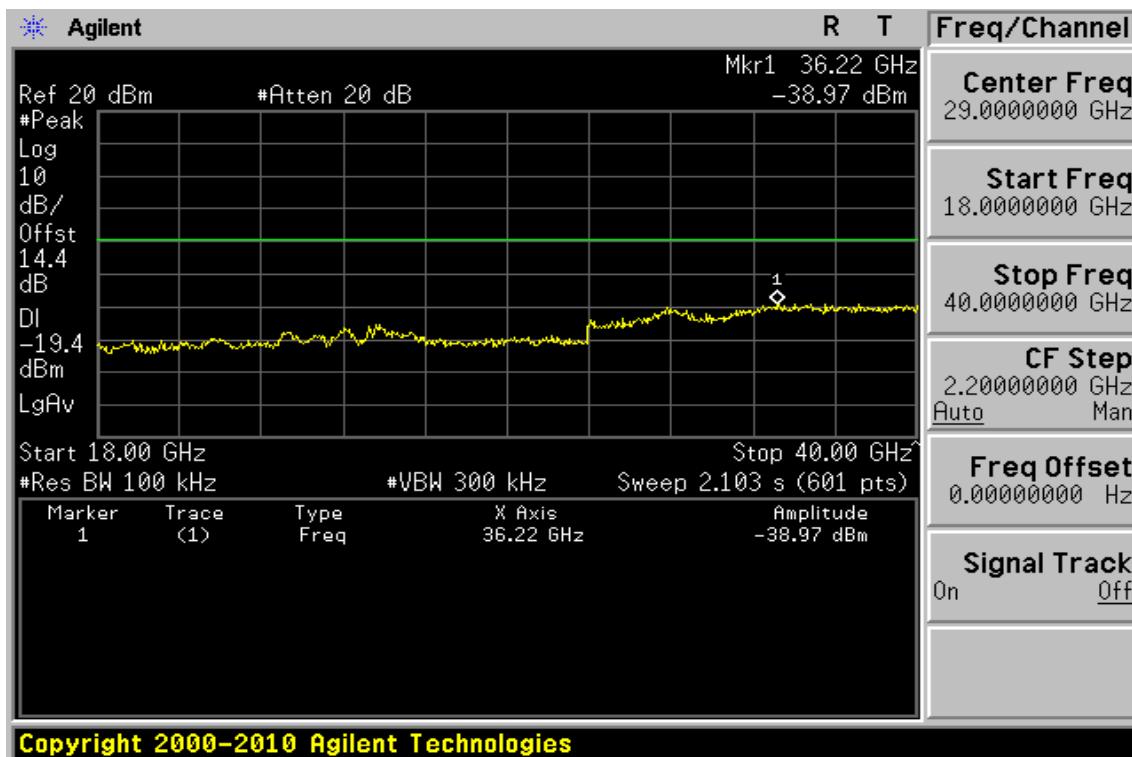
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Ch High 18GHz – 40GHz

Conducted Spurious Emission Measurement Result (802.11n_20M (5GHz))
Ch Low 30MHz – 6GHz


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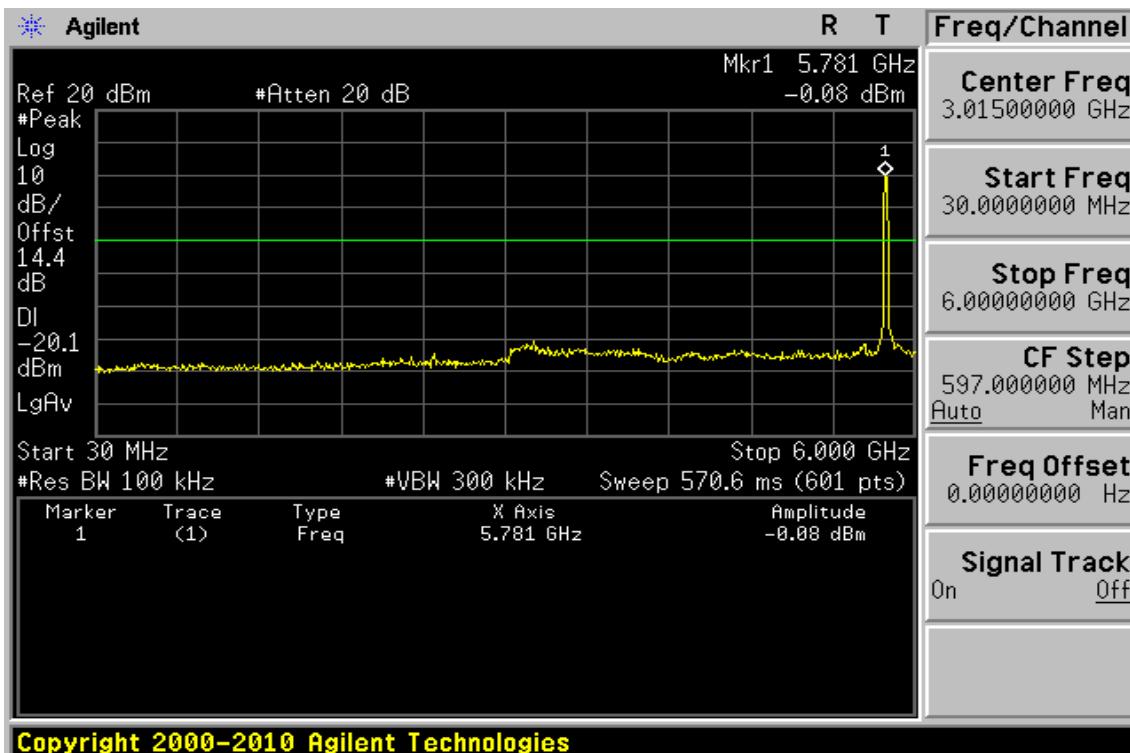
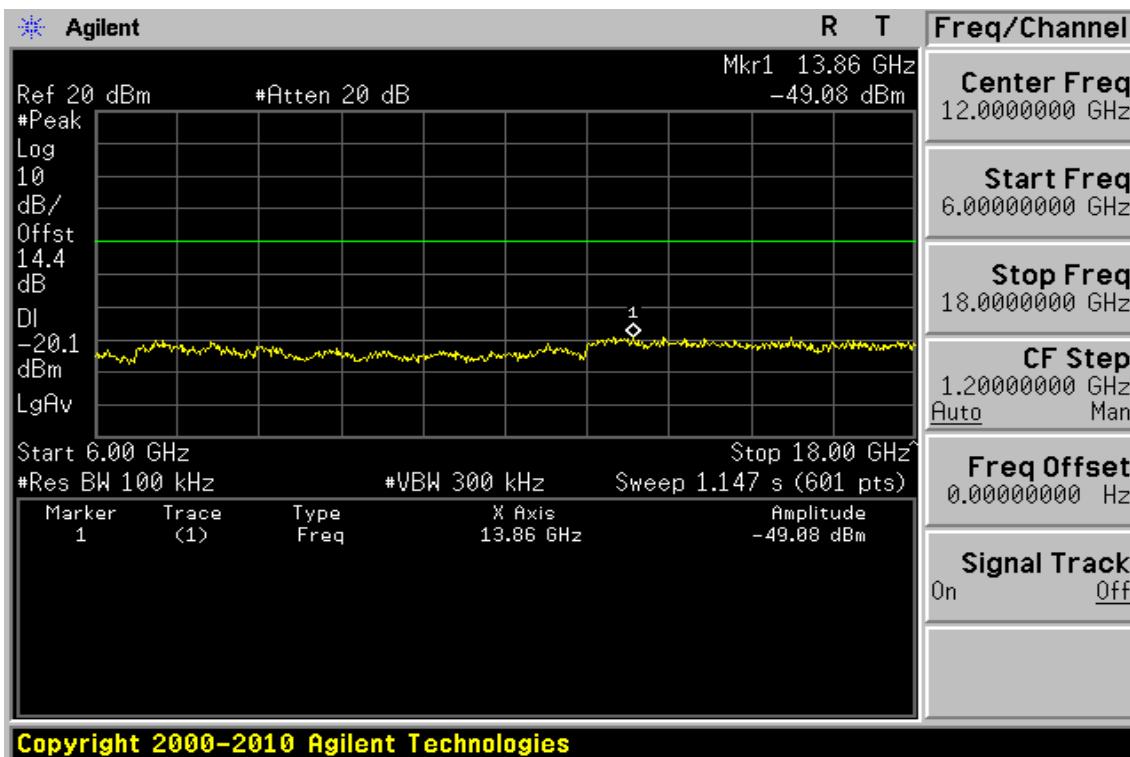
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Ch Low 6GHz – 18GHz

Ch Low 18GHz – 40GHz


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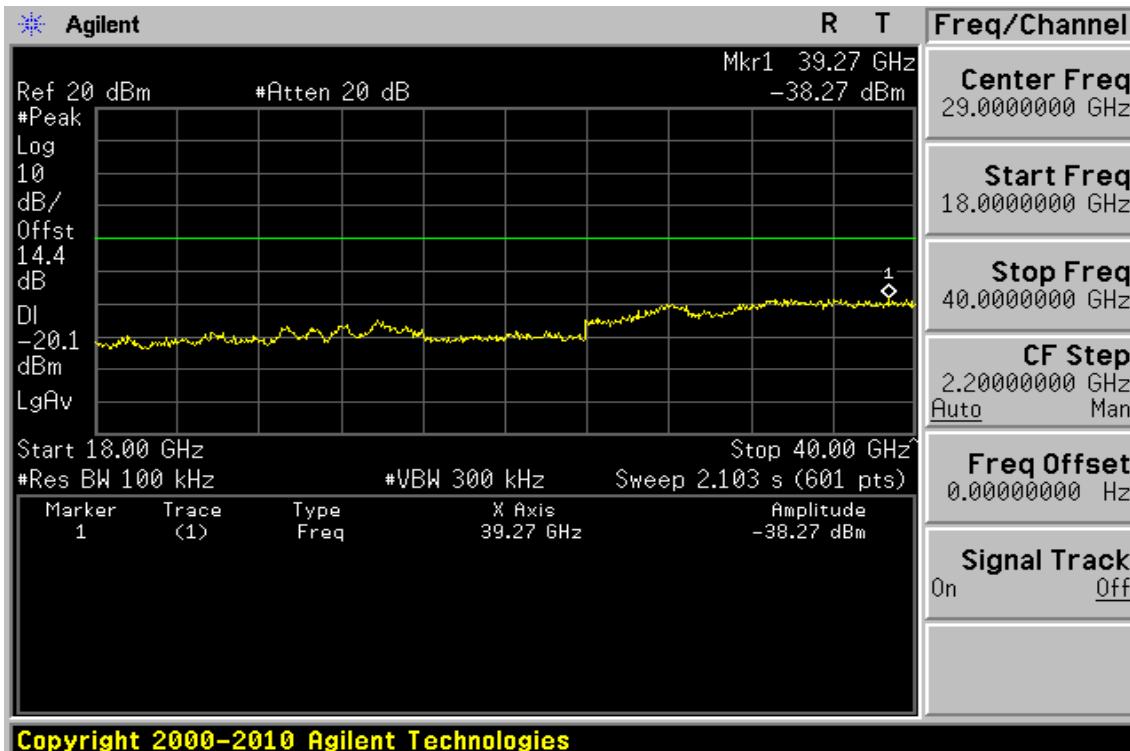
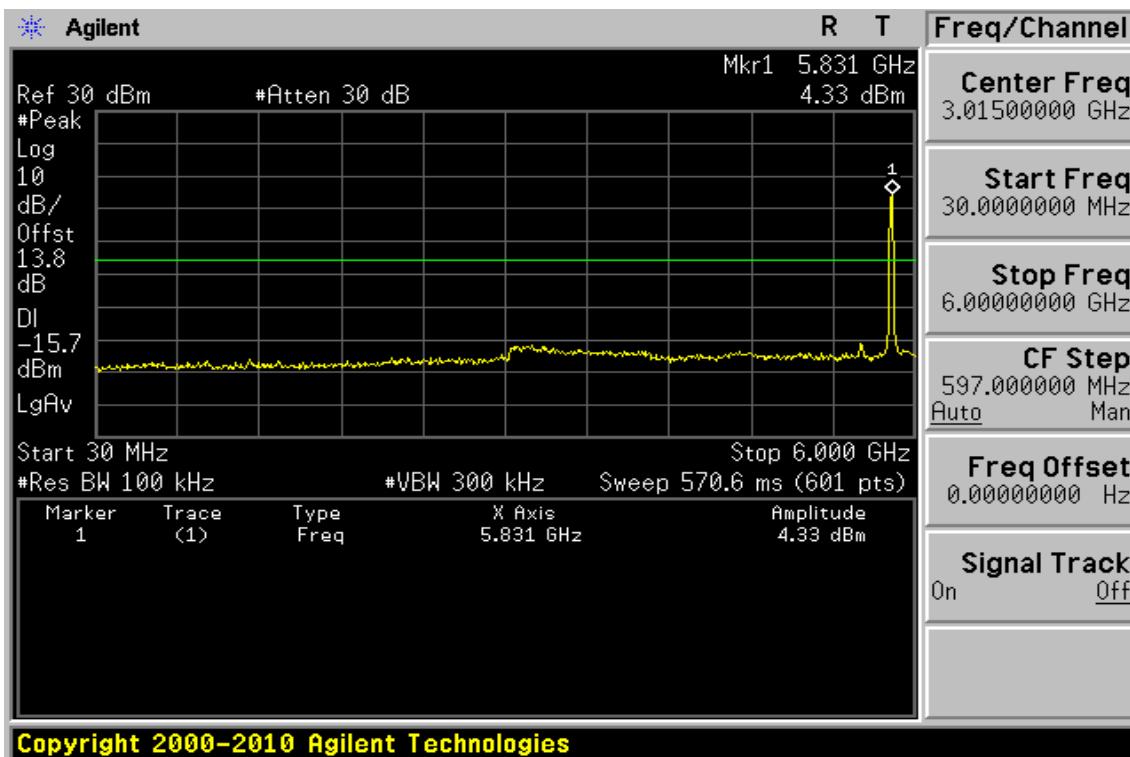
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Ch Mid 30MHz – 6GHz

Ch Mid 6GHz – 18GHz


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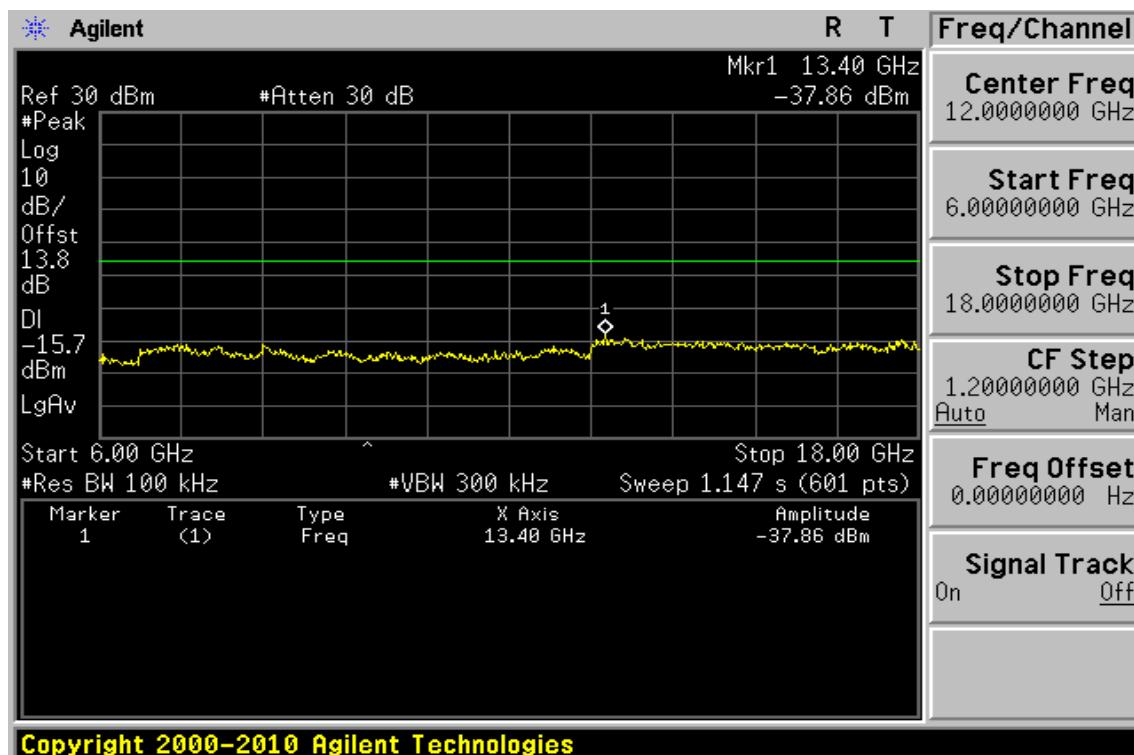
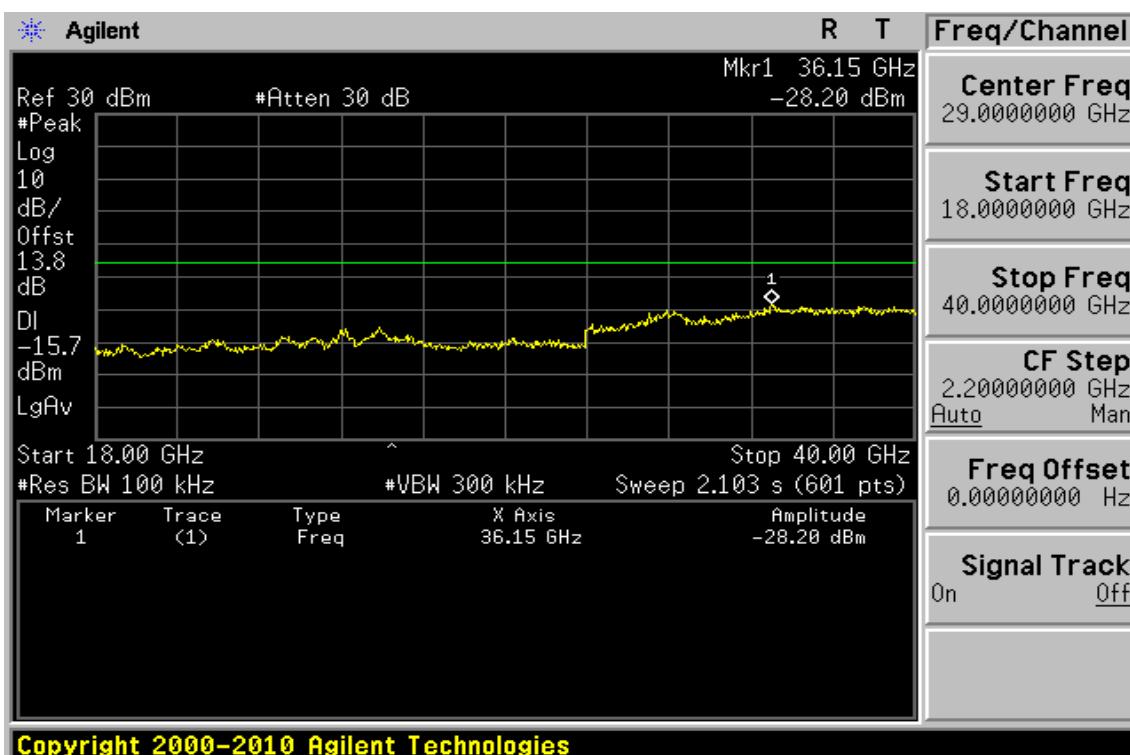
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Ch Mid 18GHz – 40GHz

Ch High 30MHz – 6GHz


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Ch High 6GHz – 18GHz

Ch High 18GHz – 40GHz


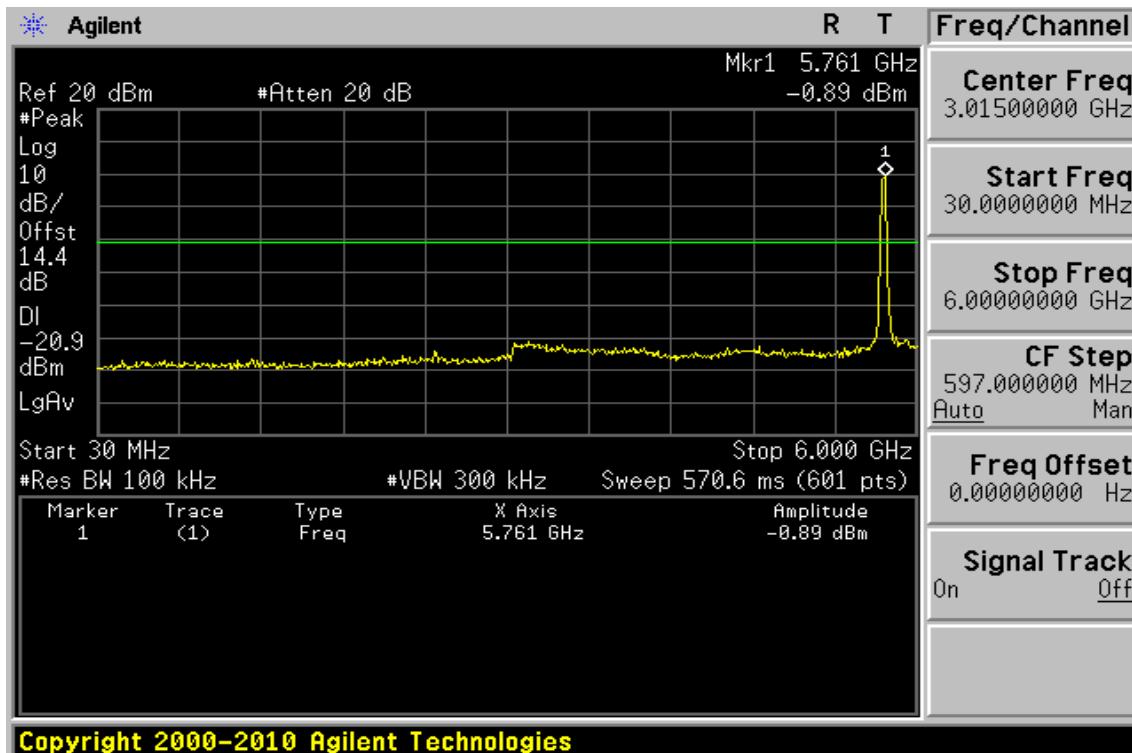
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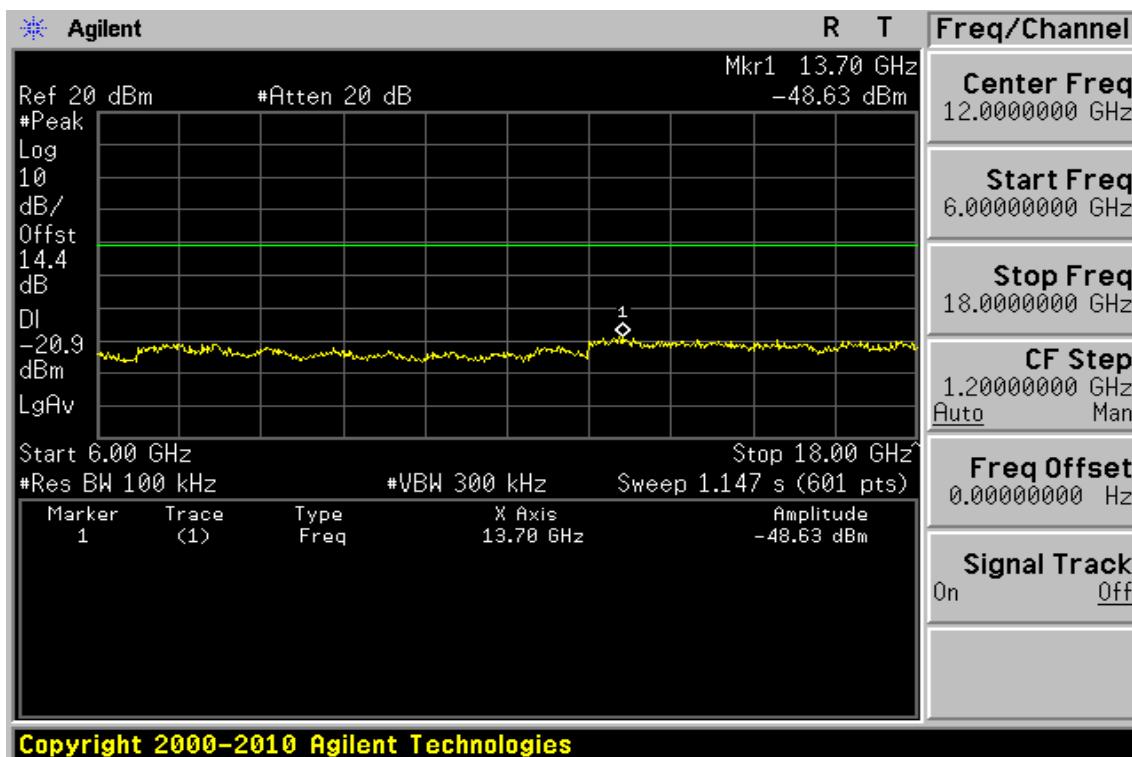
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Conducted Spurious Emission Measurement Result (802.11n_40M (5GHz))

Ch Low 30MHz – 6GHz

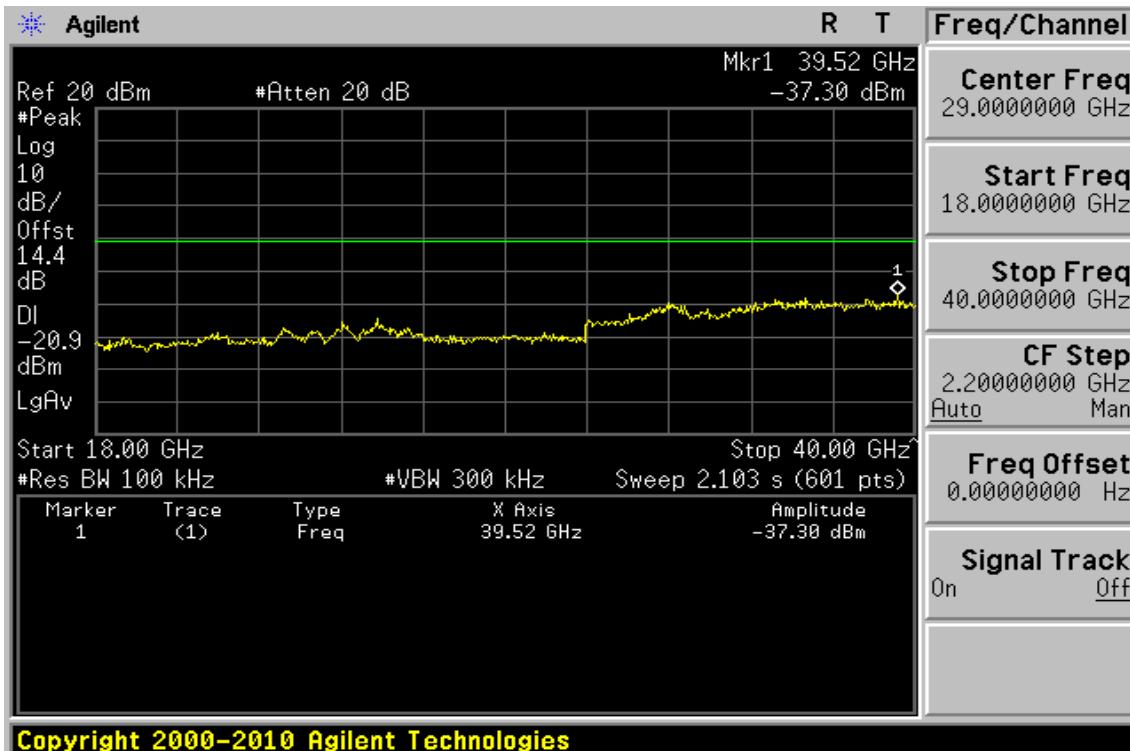
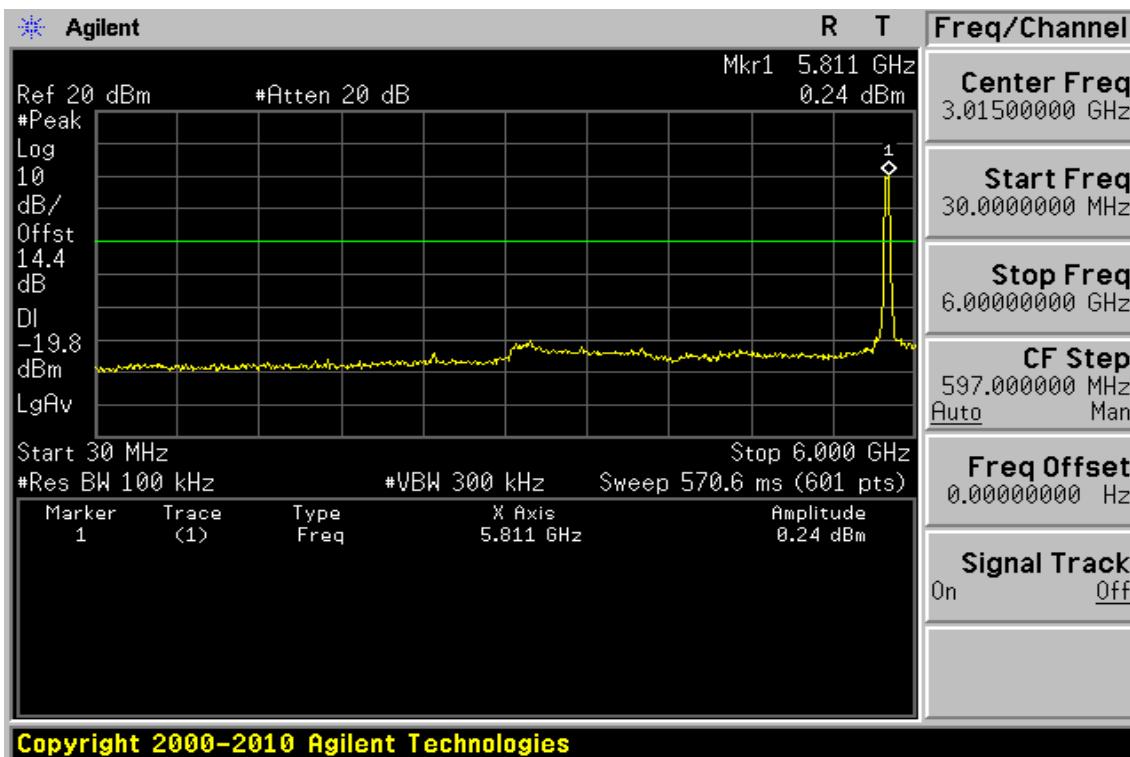


Ch Low 6GHz – 18GHz



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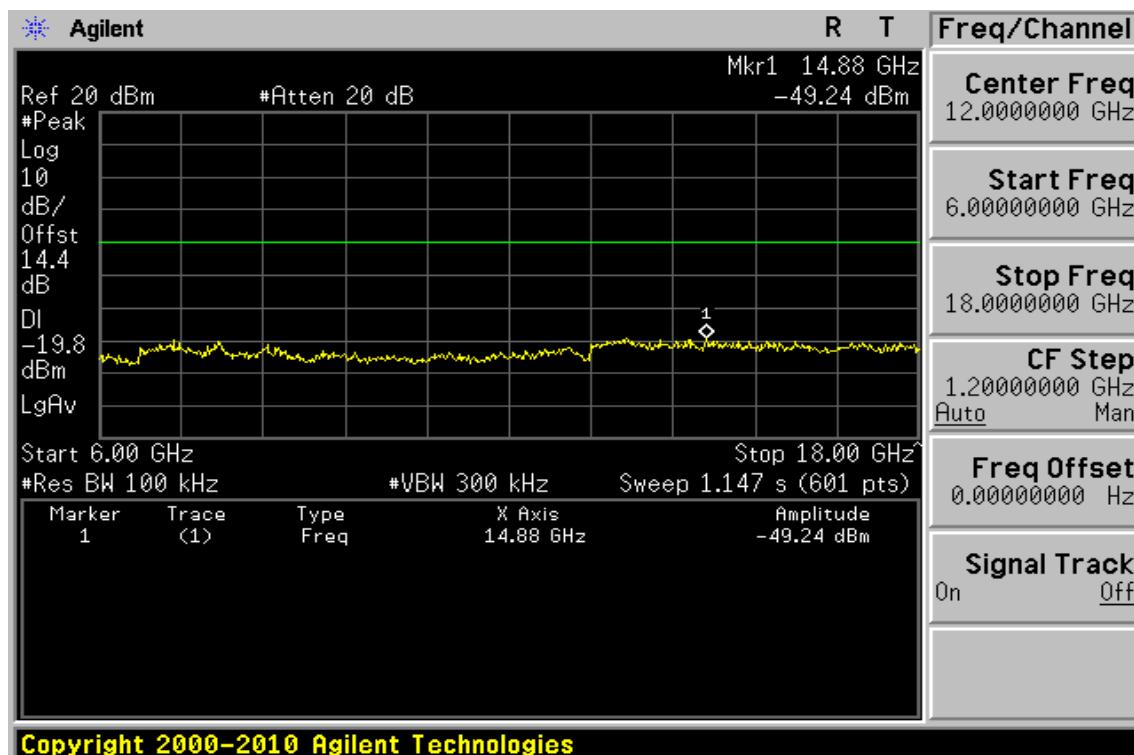
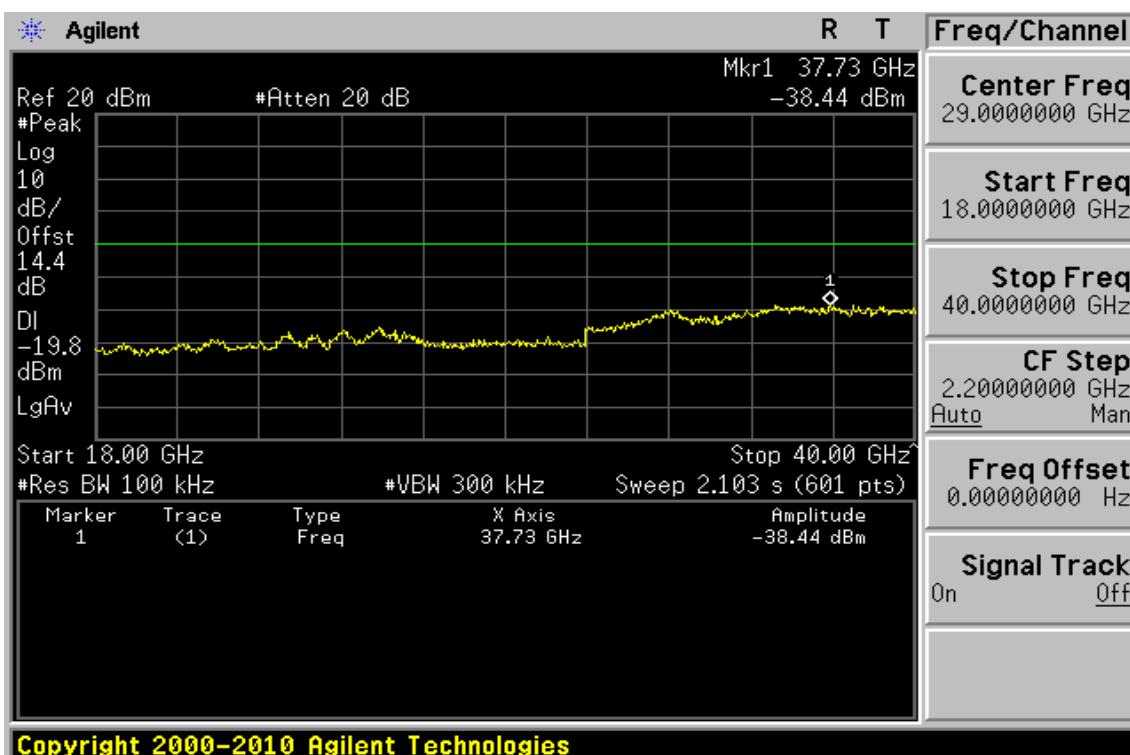
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Ch Low 18GHz – 40GHz

Ch High 30MHz – 6GHz


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Ch High 6GHz – 18GHz

Ch High 18GHz – 40GHz


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Radiated Spurious Emission Measurement Result (802.11b) (Internal Antenna)

Operation Band :802.11b Test Date :2012-11-11
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
38.73	S	Peak	43.43	-13.59	29.84	40.00	-10.16
95.96	S	Peak	50.69	-17.13	33.56	43.50	-9.94
179.38	S	Peak	46.01	-14.45	31.56	43.50	-11.94
577.08	S	Peak	40.20	-8.05	32.15	46.00	-13.85
966.05	S	Peak	34.85	-2.03	32.82	54.00	-21.18
995.15	S	Peak	39.91	-1.87	38.04	54.00	-15.96
4824.00	H	Average	35.00	7.07	42.07	54.00	-11.93
4824.00	H	Peak	39.12	7.07	46.19	74.00	-27.81
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	42.86	-13.20	29.66	43.50	-13.84	
293.84	S	Peak	45.20	-12.71	32.49	46.00	-13.51	
399.57	S	Peak	39.54	-11.06	28.48	46.00	-17.52	
577.08	S	Peak	37.27	-8.05	29.22	46.00	-16.78	
966.05	S	Peak	33.45	-2.03	31.42	54.00	-22.58	
995.15	S	Peak	35.33	-1.87	33.46	54.00	-20.54	
4824.00	H	Average	34.64	7.08	41.72	54.00	-12.28	
4824.00	H	Peak	37.94	7.08	45.02	74.00	-28.98	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	44.05	-13.86	30.19	40.00	-9.81	
95.96	S	Peak	50.72	-17.13	33.59	43.50	-9.91	
181.32	S	Peak	45.79	-14.68	31.11	43.50	-12.39	
577.08	S	Peak	40.17	-8.05	32.12	46.00	-13.88	
966.05	S	Peak	34.99	-2.03	32.96	54.00	-21.04	
995.15	S	Peak	39.85	-1.87	37.98	54.00	-16.02	
4874.00	H	Average	40.22	7.14	47.36	54.00	-6.64	
4874.00	H	Peak	41.95	7.14	49.09	74.00	-24.91	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
139.61	S	Peak	43.09	-13.13	29.96	43.50	-13.54	
288.99	S	Peak	43.84	-12.83	31.01	46.00	-14.99	
398.60	S	Peak	39.49	-11.07	28.42	46.00	-17.58	
577.08	S	Peak	38.02	-8.05	29.97	46.00	-16.03	
966.05	S	Peak	34.76	-2.03	32.73	54.00	-21.27	
995.15	S	Peak	35.35	-1.87	33.48	54.00	-20.52	
4874.00	H	Average	35.36	7.09	42.45	54.00	-11.55	
4874.00	H	Peak	38.52	7.09	45.61	74.00	-28.39	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	47.65	-13.86	33.79	40.00	-6.21	
95.96	S	Peak	50.45	-17.13	33.32	43.50	-10.18	
154.16	S	Peak	41.35	-12.30	29.05	43.50	-14.45	
577.08	S	Peak	39.87	-8.05	31.82	46.00	-14.18	
962.17	S	Peak	35.21	-2.05	33.16	54.00	-20.84	
995.15	S	Peak	39.12	-1.87	37.25	54.00	-16.75	
4924.00	H	Average	39.68	7.19	46.87	54.00	-7.13	
4924.00	H	Peak	42.72	7.19	49.91	74.00	-24.09	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
137.67	S	Peak	43.16	-13.28	29.88	43.50	-13.62	
288.99	S	Peak	43.98	-12.83	31.15	46.00	-14.85	
399.57	S	Peak	39.84	-11.06	28.78	46.00	-17.22	
577.08	S	Peak	37.73	-8.05	29.68	46.00	-16.32	
966.05	S	Peak	34.27	-2.03	32.24	54.00	-21.76	
995.15	S	Peak	35.13	-1.87	33.26	54.00	-20.74	
4924.00	H	Average	36.98	7.08	44.06	54.00	-9.94	
4924.00	H	Peak	38.92	7.08	46.00	74.00	-28.00	
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V				
37.76	S	Peak	49.82	-13.72	36.10	40.00	-3.90
95.96	S	Peak	51.47	-17.13	34.34	43.50	-9.16
182.29	S	Peak	49.68	-14.78	34.90	43.50	-8.60
577.08	S	Peak	40.27	-8.05	32.22	46.00	-13.78
966.05	S	Peak	34.92	-2.03	32.89	54.00	-21.11
995.15	S	Peak	40.49	-1.87	38.62	54.00	-15.38
4824.00	H	Average	26.55	7.07	33.62	54.00	-20.38
4824.00	H	Peak	37.58	7.07	44.65	74.00	-29.35
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	:802.11g	Test Date	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
137.67	S	Peak	43.08	-13.28	29.80	43.50	-13.70	
173.56	S	Peak	43.83	-13.62	30.21	43.50	-13.29	
288.99	S	Peak	43.90	-12.83	31.07	46.00	-14.93	
577.08	S	Peak	38.26	-8.05	30.21	46.00	-15.79	
962.17	S	Peak	33.73	-2.05	31.68	54.00	-22.32	
995.15	S	Peak	34.98	-1.87	33.11	54.00	-20.89	
4824.00	H	Average	26.28	7.08	33.36	54.00	-20.64	
4824.00	H	Peak	37.87	7.08	44.95	74.00	-29.05	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	46.36	-13.86	32.50	40.00	-7.50	
95.96	S	Peak	50.38	-17.13	33.25	43.50	-10.25	
184.23	S	Peak	45.14	-15.00	30.14	43.50	-13.36	
577.08	S	Peak	40.10	-8.05	32.05	46.00	-13.95	
966.05	S	Peak	35.45	-2.03	33.42	54.00	-20.58	
995.15	S	Peak	39.72	-1.87	37.85	54.00	-16.15	
4874.00	H	Average	26.49	7.14	33.63	54.00	-20.37	
4874.00	H	Peak	41.12	7.14	48.26	74.00	-25.74	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.63	-13.20	30.43	43.50	-13.07	
178.41	S	Peak	43.72	-14.31	29.41	43.50	-14.09	
283.17	S	Peak	44.02	-12.97	31.05	46.00	-14.95	
577.08	S	Peak	37.82	-8.05	29.77	46.00	-16.23	
962.17	S	Peak	34.36	-2.05	32.31	54.00	-21.69	
995.15	S	Peak	35.55	-1.87	33.68	54.00	-20.32	
4874.00	H	Average	26.73	7.09	33.82	54.00	-20.18	
4874.00	H	Peak	40.49	7.09	47.58	74.00	-26.42	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	46.94	-13.86	33.08	40.00	-6.92	
95.96	S	Peak	49.56	-17.13	32.43	43.50	-11.07	
154.16	S	Peak	41.77	-12.30	29.47	43.50	-14.03	
577.08	S	Peak	40.14	-8.05	32.09	46.00	-13.91	
966.05	S	Peak	35.46	-2.03	33.43	54.00	-20.57	
995.15	S	Peak	40.47	-1.87	38.60	54.00	-15.40	
4924.00	H	Average	27.57	7.19	34.76	54.00	-19.24	
4924.00	H	Peak	37.94	7.19	45.13	74.00	-28.87	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	44.79	-13.20	31.59	43.50	-11.91	
240.49	S	Peak	42.10	-14.19	27.91	46.00	-18.09	
296.75	S	Peak	45.20	-12.64	32.56	46.00	-13.44	
577.08	S	Peak	37.82	-8.05	29.77	46.00	-16.23	
966.05	S	Peak	33.88	-2.03	31.85	54.00	-22.15	
995.15	S	Peak	34.38	-1.87	32.51	54.00	-21.49	
4924.00	H	Average	26.43	7.08	33.51	54.00	-20.49	
4924.00	H	Peak	37.18	7.08	44.26	74.00	-29.74	
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_20M (2.4GHz))

Operation Band	:802.11n 20M	Test Date	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
38.73	S	Peak	43.74	-13.59	30.15	40.00	-9.85
95.96	S	Peak	50.41	-17.13	33.28	43.50	-10.22
178.41	S	Peak	45.17	-14.31	30.86	43.50	-12.64
577.08	S	Peak	39.78	-8.05	31.73	46.00	-14.27
966.05	S	Peak	35.07	-2.03	33.04	54.00	-20.96
995.15	S	Peak	38.75	-1.87	36.88	54.00	-17.12
4824.00	H	Average	25.15	7.07	32.22	54.00	-21.78
4824.00	H	Peak	38.26	7.07	45.33	74.00	-28.67
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
137.67	S	Peak	44.15	-13.28	30.87	43.50	-12.63	
288.99	S	Peak	43.87	-12.83	31.04	46.00	-14.96	
308.39	S	Peak	41.72	-12.37	29.35	46.00	-16.65	
577.08	S	Peak	37.54	-8.05	29.49	46.00	-16.51	
966.05	S	Peak	34.28	-2.03	32.25	54.00	-21.75	
995.15	S	Peak	34.33	-1.87	32.46	54.00	-21.54	
4824.00	H	Average	25.15	7.08	32.23	54.00	-21.77	
4824.00	H	Peak	37.01	7.08	44.09	74.00	-29.91	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
37.76	S	Peak	46.79	-13.72	33.07	40.00	-6.93	
95.96	S	Peak	50.70	-17.13	33.57	43.50	-9.93	
181.32	S	Peak	47.94	-14.68	33.26	43.50	-10.24	
577.08	S	Peak	40.11	-8.05	32.06	46.00	-13.94	
966.05	S	Peak	34.30	-2.03	32.27	54.00	-21.73	
995.15	S	Peak	39.76	-1.87	37.89	54.00	-16.11	
4874.00	H	Average	26.24	7.14	33.38	54.00	-20.62	
4874.00	H	Peak	37.35	7.14	44.49	74.00	-29.51	
7311.00	H	---						
9748.00	H	---						
12185.00	H	---						
14622.00	H	---						
17059.00	H	---						
19496.00	H	---						
21933.00	H	---						
24370.00	H	---						

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Operation Band	:802.11n 20M	Test Date	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

"---" : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.31	-13.20	30.11	43.50	-13.39	
289.96	S	Peak	45.24	-12.80	32.44	46.00	-13.56	
398.60	S	Peak	39.55	-11.07	28.48	46.00	-17.52	
577.08	S	Peak	37.88	-8.05	29.83	46.00	-16.17	
966.05	S	Peak	33.50	-2.03	31.47	54.00	-22.53	
995.15	S	Peak	35.90	-1.87	34.03	54.00	-19.97	
4874.00	H	Average	25.77	7.09	32.86	54.00	-21.14	
4874.00	H	Peak	42.60	7.09	49.69	74.00	-24.31	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
37.76	S	Peak	47.24	-13.72	33.52	40.00	-6.48	
95.96	S	Peak	49.82	-17.13	32.69	43.50	-10.81	
186.17	S	Peak	47.47	-15.22	32.25	43.50	-11.25	
577.08	S	Peak	40.06	-8.05	32.01	46.00	-13.99	
966.05	S	Peak	35.05	-2.03	33.02	54.00	-20.98	
995.15	S	Peak	38.76	-1.87	36.89	54.00	-17.11	
4924.00	H	Average	24.99	7.19	32.18	54.00	-21.82	
4924.00	H	Peak	37.08	7.19	44.27	74.00	-29.73	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.82	-13.20	30.62	43.50	-12.88	
240.49	S	Peak	42.06	-14.19	27.87	46.00	-18.13	
283.17	S	Peak	44.65	-12.97	31.68	46.00	-14.32	
398.60	S	Peak	39.33	-11.07	28.26	46.00	-17.74	
577.08	S	Peak	37.65	-8.05	29.60	46.00	-16.40	
995.15	S	Peak	35.16	-1.87	33.29	54.00	-20.71	
4924.00	H	Average	24.92	7.08	32.00	54.00	-22.00	
4924.00	H	Peak	37.56	7.08	44.64	74.00	-29.36	
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_40M (2.4GHz))

Operation Band	:802.11n 40M	Test Date	:2012-11-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
39.70	S	Peak	44.32	-13.47	30.85	40.00	-9.15
95.96	S	Peak	50.74	-17.13	33.61	43.50	-9.89
184.23	S	Peak	49.68	-15.00	34.68	43.50	-8.82
577.08	S	Peak	40.64	-8.05	32.59	46.00	-13.41
966.05	S	Peak	35.32	-2.03	33.29	54.00	-20.71
995.15	S	Peak	39.14	-1.87	37.27	54.00	-16.73
4844.00	H	Average	24.79	7.10	31.89	54.00	-22.11
4844.00	H	Peak	37.18	7.10	44.28	74.00	-29.72
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	:2012-11-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.05	-13.20	29.85	43.50	-13.65	
298.69	S	Peak	44.96	-12.60	32.36	46.00	-13.64	
398.60	S	Peak	38.89	-11.07	27.82	46.00	-18.18	
577.08	S	Peak	37.57	-8.05	29.52	46.00	-16.48	
962.17	S	Peak	34.06	-2.05	32.01	54.00	-21.99	
995.15	S	Peak	36.09	-1.87	34.22	54.00	-19.78	
4844.00	H	Average	24.62	7.08	31.70	54.00	-22.30	
4844.00	H	Peak	36.56	7.08	43.64	74.00	-30.36	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	46.20	-13.86	32.34	40.00	-7.66	
95.96	S	Peak	50.29	-17.13	33.16	43.50	-10.34	
158.04	S	Peak	40.93	-12.30	28.63	43.50	-14.87	
577.08	S	Peak	40.00	-8.05	31.95	46.00	-14.05	
966.05	S	Peak	34.38	-2.03	32.35	54.00	-21.65	
995.15	S	Peak	39.61	-1.87	37.74	54.00	-16.26	
4874.00	H	Average	24.68	7.14	31.82	54.00	-22.18	
4874.00	H	Peak	36.87	7.14	44.01	74.00	-29.99	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
137.67	S	Peak		44.48	-13.28	31.20	43.50	-12.30
174.53	S	Peak		41.27	-13.76	27.51	43.50	-15.99
288.02	S	Peak		44.11	-12.86	31.25	46.00	-14.75
399.57	S	Peak		39.08	-11.06	28.02	46.00	-17.98
577.08	S	Peak		37.42	-8.05	29.37	46.00	-16.63
995.15	S	Peak		35.09	-1.87	33.22	54.00	-20.78
4874.00	H	Average		24.64	7.09	31.73	54.00	-22.27
4874.00	H	Peak		36.43	7.09	43.52	74.00	-30.48
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	:2012-11-11
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	47.36	-13.86	33.50	40.00	-6.50	
95.96	S	Peak	51.00	-17.13	33.87	43.50	-9.63	
158.04	S	Peak	40.27	-12.30	27.97	43.50	-15.53	
577.08	S	Peak	40.12	-8.05	32.07	46.00	-13.93	
966.05	S	Peak	34.69	-2.03	32.66	54.00	-21.34	
995.15	S	Peak	40.11	-1.87	38.24	54.00	-15.76	
4904.00	H	Average	24.72	7.17	31.89	54.00	-22.11	
4904.00	H	Peak	36.66	7.17	43.83	74.00	-30.17	
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	:2012-11-11
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
137.67	S	Peak	47.28	-13.28	34.00	43.50	-9.50	
288.99	S	Peak	43.81	-12.83	30.98	46.00	-15.02	
335.55	S	Peak	40.35	-11.86	28.49	46.00	-17.51	
577.08	S	Peak	37.93	-8.05	29.88	46.00	-16.12	
966.05	S	Peak	33.66	-2.03	31.63	54.00	-22.37	
995.15	S	Peak	35.24	-1.87	33.37	54.00	-20.63	
4904.00	H	Average	24.66	7.09	31.75	54.00	-22.25	
4904.00	H	Peak	37.10	7.09	44.19	74.00	-29.81	
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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Radiated Spurious Emission Measurement Result (802.11a)

Operation Band :802.11a Test Date :2012-11-11
 Fundamental Frequency :5745 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	44.27	-13.86	30.41	40.00	-9.59	
95.96	S	Peak	50.35	-17.13	33.22	43.50	-10.28	
153.19	S	Peak	42.20	-12.32	29.88	43.50	-13.62	
577.08	S	Peak	40.12	-8.05	32.07	46.00	-13.93	
966.05	S	Peak	35.67	-2.03	33.64	54.00	-20.36	
995.15	S	Peak	41.27	-1.87	39.40	54.00	-14.60	
11490.00	H	Peak	18.90	17.60	36.50	74.00	-37.50	
17235.00	H	---						
22980.00	H	---						
28725.00	H	---						
34470.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5745 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX LOW **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
139.61	S	Peak	44.55	-13.13	31.42	43.50	-12.08
288.99	S	Peak	43.88	-12.83	31.05	46.00	-14.95
398.60	S	Peak	39.55	-11.07	28.48	46.00	-17.52
577.08	S	Peak	38.05	-8.05	30.00	46.00	-16.00
796.30	S	Peak	33.13	-4.24	28.89	46.00	-17.11
995.15	S	Peak	35.29	-1.87	33.42	54.00	-20.58
11490.00	H	Peak	18.83	17.40	36.23	74.00	-37.77
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
37.76	S	Peak	45.70	-13.72	31.98	40.00	-8.02	
95.96	S	Peak	50.26	-17.13	33.13	43.50	-10.37	
153.19	S	Peak	41.12	-12.32	28.80	43.50	-14.70	
274.44	S	Peak	39.42	-13.21	26.21	46.00	-19.79	
577.08	S	Peak	39.55	-8.05	31.50	46.00	-14.50	
995.15	S	Peak	38.93	-1.87	37.06	54.00	-16.94	
11570.00	H	Peak	18.61	17.69	36.30	74.00	-37.70	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.89	-13.20	30.69	43.50	-12.81	
288.02	S	Peak	43.78	-12.86	30.92	46.00	-15.08	
398.60	S	Peak	39.33	-11.07	28.26	46.00	-17.74	
577.08	S	Peak	37.79	-8.05	29.74	46.00	-16.26	
962.17	S	Peak	33.30	-2.05	31.25	54.00	-22.75	
995.15	S	Peak	34.95	-1.87	33.08	54.00	-20.92	
11570.00	H	Peak	18.79	17.49	36.28	74.00	-37.72	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11a
 Fundamental Frequency :5825 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan

Test Date :2012-11-11
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Marcus
 Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak		43.86	-13.86	30.00	40.00	-10.00
95.96	S	Peak		50.43	-17.13	33.30	43.50	-10.20
157.07	S	Peak		41.08	-12.29	28.79	43.50	-14.71
577.08	S	Peak		40.12	-8.05	32.07	46.00	-13.93
966.05	S	Peak		35.57	-2.03	33.54	54.00	-20.46
995.15	S	Peak		39.66	-1.87	37.79	54.00	-16.21
11650.00	H	Peak		18.10	17.78	35.88	74.00	-38.12
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5825 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
140.58	S	Peak	44.22	-13.04	31.18	43.50	-12.32	
288.02	S	Peak	44.19	-12.86	31.33	46.00	-14.67	
399.57	S	Peak	39.31	-11.06	28.25	46.00	-17.75	
577.08	S	Peak	37.62	-8.05	29.57	46.00	-16.43	
966.05	S	Peak	34.01	-2.03	31.98	54.00	-22.02	
995.15	S	Peak	34.88	-1.87	33.01	54.00	-20.99	
11650.00	H	Peak	18.48	17.58	36.06	74.00	-37.94	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Radiated Spurious Emission Measurement Result (802.11n_20M (5GHz))

Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5745 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	46.24	-13.86	32.38	40.00	-7.62	
95.96	S	Peak	50.04	-17.13	32.91	43.50	-10.59	
155.13	S	Peak	44.78	-12.30	32.48	43.50	-11.02	
577.08	S	Peak	39.80	-8.05	31.75	46.00	-14.25	
962.17	S	Peak	34.57	-2.05	32.52	54.00	-21.48	
995.15	S	Peak	39.22	-1.87	37.35	54.00	-16.65	
11490.00	H	Peak	18.83	17.60	36.43	74.00	-37.57	
17235.00	H	---						
22980.00	H	---						
28725.00	H	---						
34470.00	H	---						

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5745 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX LOW **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
138.64	S	Peak	45.51	-13.20	32.31	43.50	-11.19
288.02	S	Peak	44.04	-12.86	31.18	46.00	-14.82
335.55	S	Peak	41.04	-11.86	29.18	46.00	-16.82
577.08	S	Peak	37.97	-8.05	29.92	46.00	-16.08
966.05	S	Peak	34.26	-2.03	32.23	54.00	-21.77
995.15	S	Peak	35.71	-1.87	33.84	54.00	-20.16
11490.00	H	Peak	18.18	17.40	35.58	74.00	-38.42
17235.00	H	---	---				
22980.00	H	---	---				
28725.00	H	---	---				
34470.00	H	---	---				

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
38.73	S	Peak	45.52	-13.59	31.93	40.00	-8.07
95.96	S	Peak	50.34	-17.13	33.21	43.50	-10.29
158.04	S	Peak	40.78	-12.30	28.48	43.50	-15.02
577.08	S	Peak	39.57	-8.05	31.52	46.00	-14.48
966.05	S	Peak	36.48	-2.03	34.45	54.00	-19.55
995.15	S	Peak	39.15	-1.87	37.28	54.00	-16.72
11570.00	H	Peak	18.36	17.69	36.05	74.00	-37.95
17355.00	H	---	---				
23140.00	H	---	---				
28925.00	H	---	---				
34710.00	H	---	---				

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.64	-13.20	30.44	43.50	-13.06	
288.02	S	Peak	43.72	-12.86	30.86	46.00	-15.14	
398.60	S	Peak	39.49	-11.07	28.42	46.00	-17.58	
577.08	S	Peak	38.28	-8.05	30.23	46.00	-15.77	
966.05	S	Peak	35.67	-2.03	33.64	54.00	-20.36	
995.15	S	Peak	35.39	-1.87	33.52	54.00	-20.48	
11570.00	H	Peak	18.55	17.49	36.04	74.00	-37.96	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5825 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak		47.81	-13.86	33.95	40.00	-6.05
95.96	S	Peak		50.82	-17.13	33.69	43.50	-9.81
186.17	S	Peak		47.36	-15.22	32.14	43.50	-11.36
297.72	S	Peak		39.71	-12.62	27.09	46.00	-18.91
577.08	S	Peak		39.57	-8.05	31.52	46.00	-14.48
995.15	S	Peak		39.55	-1.87	37.68	54.00	-16.32
11650.00	H	Peak		18.36	17.78	36.14	74.00	-37.86
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5825 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak		44.06	-13.20	30.86	43.50	-12.64
175.50	S	Peak		41.93	-13.90	28.03	43.50	-15.47
288.02	S	Peak		44.08	-12.86	31.22	46.00	-14.78
399.57	S	Peak		39.06	-11.06	28.00	46.00	-18.00
577.08	S	Peak		38.02	-8.05	29.97	46.00	-16.03
995.15	S	Peak		35.25	-1.87	33.38	54.00	-20.62
11650.00	H	Peak		18.67	17.58	36.25	74.00	-37.75
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Radiated Spurious Emission Measurement Result (802.11n_40M (5GHz))

Operation Band :802.11n 40M Test Date :2012-11-11
 Fundamental Frequency :5755 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	46.45	-13.86	32.59	40.00	-7.41	
95.96	S	Peak	50.67	-17.13	33.54	43.50	-9.96	
157.07	S	Peak	40.60	-12.29	28.31	43.50	-15.19	
577.08	S	Peak	39.86	-8.05	31.81	46.00	-14.19	
966.05	S	Peak	35.11	-2.03	33.08	54.00	-20.92	
995.15	S	Peak	40.96	-1.87	39.09	54.00	-14.91	
11510.00	H	Peak	19.15	17.67	36.82	74.00	-37.18	
17265.00	H	---						
23020.00	H	---						
28775.00	H	---						
34530.00	H	---						

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Operation Band :802.11n 40M **Test Date** :2012-11-11
Fundamental Frequency :5755 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX LOW **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
138.64	S	Peak	43.88	-13.20	30.68	43.50	-12.82	
288.99	S	Peak	44.00	-12.83	31.17	46.00	-14.83	
335.55	S	Peak	39.75	-11.86	27.89	46.00	-18.11	
398.60	S	Peak	39.48	-11.07	28.41	46.00	-17.59	
577.08	S	Peak	37.45	-8.05	29.40	46.00	-16.60	
995.15	S	Peak	35.49	-1.87	33.62	54.00	-20.38	
11510.00	H	Peak	20.36	17.47	37.83	74.00	-36.17	
17265.00	H	---						
23020.00	H	---						
28775.00	H	---						
34530.00	H	---						

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Operation Band :802.11n 40M **Test Date** :2012-11-11
Fundamental Frequency :5795 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
37.76	S	Peak	44.12	-13.72	30.40	40.00	-9.60	
95.96	S	Peak	50.01	-17.13	32.88	43.50	-10.62	
187.14	S	Peak	45.31	-15.32	29.99	43.50	-13.51	
577.08	S	Peak	39.93	-8.05	31.88	46.00	-14.12	
966.05	S	Peak	34.85	-2.03	32.82	54.00	-21.18	
995.15	S	Peak	39.17	-1.87	37.30	54.00	-16.70	
11590.00	H	Peak	18.58	17.69	36.27	74.00	-37.73	
17385.00	H	---						
23180.00	H	---						
28975.00	H	---						
34770.00	H	---						

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Operation Band :802.11n 40M **Test Date** :2012-11-11
Fundamental Frequency :5795 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
139.61	S	Peak	44.02	-13.13	30.89	43.50	-12.61	
288.02	S	Peak	46.11	-12.86	33.25	46.00	-12.75	
398.60	S	Peak	39.66	-11.07	28.59	46.00	-17.41	
577.08	S	Peak	37.72	-8.05	29.67	46.00	-16.33	
962.17	S	Peak	34.42	-2.05	32.37	54.00	-21.63	
995.15	S	Peak	35.59	-1.87	33.72	54.00	-20.28	
11590.00	H	Peak	19.84	17.49	37.33	74.00	-36.67	
17385.00	H	---						
23180.00	H	---						
28975.00	H	---						
34770.00	H	---						

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Radiated Spurious Emission Measurement Result (802.11b) (External Antenna)

Operation Band	:802.11b	Test Date	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
35.82	S	Peak	34.25	0.00	34.25	40.00	-5.75
398.60	S	Peak	25.11	0.00	25.11	46.00	-20.89
577.08	S	Peak	32.22	0.00	32.22	46.00	-13.78
630.43	S	Peak	24.56	0.00	24.56	46.00	-21.44
966.05	S	Peak	37.83	0.00	37.83	54.00	-16.17
995.15	S	Peak	34.30	0.00	34.30	54.00	-19.70
4824.00	H	Average	36.42	7.06	43.48	54.00	-10.52
4824.00	H	Peak	38.61	7.06	45.67	74.00	-28.33
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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Operation Band	:802.11b	Test Date	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
198.78	S	Peak	32.31	0.00	32.31	43.50	-11.19
335.55	S	Peak	30.80	0.00	30.80	46.00	-15.20
577.08	S	Peak	30.95	0.00	30.95	46.00	-15.05
896.21	S	Peak	33.75	0.00	33.75	46.00	-12.25
962.17	S	Peak	32.62	0.00	32.62	54.00	-21.38
995.15	S	Peak	32.95	0.00	32.95	54.00	-21.05
4824.00	H	Average	31.23	7.07	38.30	54.00	-15.70
4824.00	H	Peak	36.87	7.07	43.94	74.00	-30.06
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
35.82	S	Peak	34.70	0.00	34.70	40.00	-5.30	
95.96	S	Peak	35.57	0.00	35.57	43.50	-7.93	
199.75	S	Peak	29.04	0.00	29.04	43.50	-14.46	
577.08	S	Peak	32.74	0.00	32.74	46.00	-13.26	
962.17	S	Peak	37.52	0.00	37.52	54.00	-16.48	
995.15	S	Peak	34.01	0.00	34.01	54.00	-19.99	
4874.00	H	Average	36.65	7.13	43.78	54.00	-10.22	
4874.00	H	Peak	40.46	7.13	47.59	74.00	-26.41	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin
			PK/QP/AV		dB μ V	dB μ V/m	
199.75	S	Peak	32.48	0.00	32.48	43.50	-11.02
335.55	S	Peak	31.86	0.00	31.86	46.00	-14.14
577.08	S	Peak	30.84	0.00	30.84	46.00	-15.16
697.36	S	Peak	27.02	0.00	27.02	46.00	-18.98
962.17	S	Peak	31.62	0.00	31.62	54.00	-22.38
995.15	S	Peak	32.25	0.00	32.25	54.00	-21.75
4874.00	H	Average	30.32	7.08	37.40	54.00	-16.60
4874.00	H	Peak	36.52	7.08	43.60	74.00	-30.40
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	:802.11b	Test Date	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V		dB μ V/m	dB μ V/m	
35.82	S	Peak	33.82	0.00	33.82	40.00	-6.18
95.96	S	Peak	35.97	0.00	35.97	43.50	-7.53
199.75	S	Peak	28.97	0.00	28.97	43.50	-14.53
577.08	S	Peak	32.62	0.00	32.62	46.00	-13.38
966.05	S	Peak	37.85	0.00	37.85	54.00	-16.15
995.15	S	Peak	33.99	0.00	33.99	54.00	-20.01
4924.00	H	Average	35.51	7.18	42.69	54.00	-11.31
4924.00	H	Peak	39.45	7.18	46.63	74.00	-27.37
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.14	0.00	29.14	43.50	-14.36	
198.78	S	Peak	33.09	0.00	33.09	43.50	-10.41	
335.55	S	Peak	30.60	0.00	30.60	46.00	-15.40	
577.08	S	Peak	31.02	0.00	31.02	46.00	-14.98	
697.36	S	Peak	27.42	0.00	27.42	46.00	-18.58	
995.15	S	Peak	32.68	0.00	32.68	54.00	-21.32	
4924.00	H	Average	29.54	7.07	36.61	54.00	-17.39	
4924.00	H	Peak	38.02	7.07	45.09	74.00	-28.91	
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V			dB μ V/m	
35.82	S	Peak	33.80	0.00	33.80	40.00	-6.20
95.96	S	Peak	35.82	0.00	35.82	43.50	-7.68
191.99	S	Peak	29.40	0.00	29.40	43.50	-14.10
564.47	S	Peak	34.33	0.00	34.33	46.00	-11.67
966.05	S	Peak	37.89	0.00	37.89	54.00	-16.11
995.15	S	Peak	34.29	0.00	34.29	54.00	-19.71
4824.00	H	Average	28.12	7.06	35.18	54.00	-18.82
4824.00	H	Peak	39.93	7.06	46.99	74.00	-27.01
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.64	0.00	29.64	29.64	43.50	-13.86
199.75	S	Peak	33.02	0.00	33.02	33.02	43.50	-10.48
335.55	S	Peak	31.38	0.00	31.38	31.38	46.00	-14.62
576.11	S	Peak	32.84	0.00	32.84	32.84	46.00	-13.16
962.17	S	Peak	32.64	0.00	32.64	32.64	54.00	-21.36
995.15	S	Peak	31.79	0.00	31.79	31.79	54.00	-22.21
4824.00	H	Average	26.75	7.07	33.82	33.82	54.00	-20.18
4824.00	H	Peak	37.62	7.07	44.69	44.69	74.00	-29.31
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	33.56	0.00	33.56	40.00	-6.44	
95.96	S	Peak	36.64	0.00	36.64	43.50	-6.86	
191.99	S	Peak	30.01	0.00	30.01	43.50	-13.49	
564.47	S	Peak	35.18	0.00	35.18	46.00	-10.82	
966.05	S	Peak	37.67	0.00	37.67	54.00	-16.33	
995.15	S	Peak	35.31	0.00	35.31	54.00	-18.69	
4874.00	H	Average	28.50	7.13	35.63	54.00	-18.37	
4874.00	H	Peak	39.89	7.13	47.02	74.00	-26.98	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.61	0.00	29.61	43.50	-13.89	
199.75	S	Peak	32.99	0.00	32.99	43.50	-10.51	
335.55	S	Peak	31.11	0.00	31.11	46.00	-14.89	
576.11	S	Peak	31.18	0.00	31.18	46.00	-14.82	
966.05	S	Peak	32.20	0.00	32.20	54.00	-21.80	
995.15	S	Peak	32.20	0.00	32.20	54.00	-21.80	
4874.00	H	Average	26.35	7.08	33.43	54.00	-20.57	
4874.00	H	Peak	38.27	7.08	45.35	74.00	-28.65	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
35.82	S	Peak	33.75	0.00	33.75	40.00	-6.25	
95.96	S	Peak	36.38	0.00	36.38	43.50	-7.12	
191.99	S	Peak	29.44	0.00	29.44	43.50	-14.06	
564.47	S	Peak	34.36	0.00	34.36	46.00	-11.64	
962.17	S	Peak	36.35	0.00	36.35	54.00	-17.65	
995.15	S	Peak	33.87	0.00	33.87	54.00	-20.13	
4924.00	H	Average	26.96	7.18	34.14	54.00	-19.86	
4924.00	H	Peak	36.82	7.18	44.00	74.00	-30.00	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	30.21	0.00	30.21	43.50	-13.29	
199.75	S	Peak	33.48	0.00	33.48	43.50	-10.02	
335.55	S	Peak	31.66	0.00	31.66	46.00	-14.34	
576.11	S	Peak	31.56	0.00	31.56	46.00	-14.44	
962.17	S	Peak	32.37	0.00	32.37	54.00	-21.63	
995.15	S	Peak	31.90	0.00	31.90	54.00	-22.10	
4924.00	H	Average	25.63	7.07	32.70	54.00	-21.30	
4924.00	H	Peak	37.36	7.07	44.43	74.00	-29.57	
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_20M (2.4GHz))

Operation Band	:802.11n 20M	Test Date	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
35.82	S	Peak	33.54	0.00	33.54	40.00	-6.46
95.96	S	Peak	37.02	0.00	37.02	43.50	-6.48
199.75	S	Peak	29.77	0.00	29.77	43.50	-13.73
564.47	S	Peak	33.62	0.00	33.62	46.00	-12.38
966.05	S	Peak	37.10	0.00	37.10	54.00	-16.90
995.15	S	Peak	33.93	0.00	33.93	54.00	-20.07
4824.00	H	Average	25.66	7.06	32.72	54.00	-21.28
4824.00	H	Peak	37.42	7.06	44.48	74.00	-29.52
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	:2012-11-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	30.18	0.00	30.18	43.50	-13.32	
199.75	S	Peak	34.15	0.00	34.15	43.50	-9.35	
335.55	S	Peak	30.90	0.00	30.90	46.00	-15.10	
576.11	S	Peak	30.69	0.00	30.69	46.00	-15.31	
962.17	S	Peak	32.64	0.00	32.64	54.00	-21.36	
995.15	S	Peak	31.45	0.00	31.45	54.00	-22.55	
4824.00	H	Average	25.38	7.07	32.45	54.00	-21.55	
4824.00	H	Peak	37.04	7.07	44.11	74.00	-29.89	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
35.82	S	Peak	31.88	0.00	31.88	40.00	-8.12	
95.96	S	Peak	37.21	0.00	37.21	43.50	-6.29	
191.99	S	Peak	29.53	0.00	29.53	43.50	-13.97	
566.41	S	Peak	34.09	0.00	34.09	46.00	-11.91	
962.17	S	Peak	37.56	0.00	37.56	54.00	-16.44	
995.15	S	Peak	36.17	0.00	36.17	54.00	-17.83	
4874.00	H	Average	24.90	7.13	32.03	54.00	-21.97	
4874.00	H	Peak	37.57	7.13	44.70	74.00	-29.30	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.03	0.00	29.03	43.50	-14.47	
199.75	S	Peak	33.78	0.00	33.78	43.50	-9.72	
398.60	S	Peak	28.75	0.00	28.75	46.00	-17.25	
576.11	S	Peak	30.86	0.00	30.86	46.00	-15.14	
966.05	S	Peak	32.87	0.00	32.87	54.00	-21.13	
995.15	S	Peak	31.58	0.00	31.58	54.00	-22.42	
4874.00	H	Average	25.30	7.08	32.38	54.00	-21.62	
4874.00	H	Peak	36.59	7.08	43.67	74.00	-30.33	
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	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	31.45	0.00	31.45	31.45	40.00	-8.55
95.96	S	Peak	36.99	0.00	36.99	36.99	43.50	-6.51
199.75	S	Peak	28.83	0.00	28.83	28.83	43.50	-14.67
566.41	S	Peak	33.23	0.00	33.23	33.23	46.00	-12.77
966.05	S	Peak	37.29	0.00	37.29	37.29	54.00	-16.71
995.15	S	Peak	35.46	0.00	35.46	35.46	54.00	-18.54
4924.00	H	Average	25.61	7.18	32.79	32.79	54.00	-21.21
4924.00	H	Peak	38.43	7.18	45.61	45.61	74.00	-28.39
7386.00	H	---	---					
9848.00	H	---	---					
12310.00	H	---	---					
14772.00	H	---	---					
17234.00	H	---	---					
19696.00	H	---	---					
22158.00	H	---	---					
24620.00	H	---	---					

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Operation Band	:802.11n 20M	Test Date	:2012-11-11
Fundamental Frequency	:2462 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	30.13	0.00	30.13	43.50	-13.37	
199.75	S	Peak	32.98	0.00	32.98	43.50	-10.52	
399.57	S	Peak	29.12	0.00	29.12	46.00	-16.88	
564.47	S	Peak	27.96	0.00	27.96	46.00	-18.04	
962.17	S	Peak	32.37	0.00	32.37	54.00	-21.63	
995.15	S	Peak	32.04	0.00	32.04	54.00	-21.96	
4924.00	H	Average	25.50	7.07	32.57	54.00	-21.43	
4924.00	H	Peak	37.28	7.07	44.35	74.00	-29.65	
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_40M (2.4GHz))

Operation Band	:802.11n 40M	Test Date	:2012-11-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV				
35.82	S	Peak	31.74	0.00	31.74	40.00	-8.26
95.96	S	Peak	36.63	0.00	36.63	43.50	-6.87
199.75	S	Peak	27.96	0.00	27.96	43.50	-15.54
566.41	S	Peak	34.10	0.00	34.10	46.00	-11.90
966.05	S	Peak	38.52	0.00	38.52	54.00	-15.48
995.15	S	Peak	36.53	0.00	36.53	54.00	-17.47
4844.00	H	Average	25.32	7.09	32.41	54.00	-21.59
4844.00	H	Peak	37.50	7.09	44.59	74.00	-29.41
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	:2012-11-11
Fundamental Frequency	:2422 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.57	0.00	29.57	43.50	-13.93	
199.75	S	Peak	34.15	0.00	34.15	43.50	-9.35	
399.57	S	Peak	29.70	0.00	29.70	46.00	-16.30	
564.47	S	Peak	28.46	0.00	28.46	46.00	-17.54	
966.05	S	Peak	32.67	0.00	32.67	54.00	-21.33	
995.15	S	Peak	31.42	0.00	31.42	54.00	-22.58	
4844.00	H	Average	24.93	7.08	32.01	54.00	-21.99	
4844.00	H	Peak	37.51	7.08	44.59	74.00	-29.41	
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	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
35.82	S	Peak	31.84	0.00	31.84	40.00	-8.16	
95.96	S	Peak	36.39	0.00	36.39	43.50	-7.11	
199.75	S	Peak	28.21	0.00	28.21	43.50	-15.29	
564.47	S	Peak	33.77	0.00	33.77	46.00	-12.23	
966.05	S	Peak	37.90	0.00	37.90	54.00	-16.10	
996.12	S	Peak	33.43	0.00	33.43	54.00	-20.57	
4874.00	H	Average	25.36	7.13	32.49	54.00	-21.51	
4874.00	H	Peak	36.36	7.13	43.49	74.00	-30.51	
7311.00	H	---						
9748.00	H	---						
12185.00	H	---						
14622.00	H	---						
17059.00	H	---						
19496.00	H	---						
21933.00	H	---						
24370.00	H	---						

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Operation Band	:802.11n 40M	Test Date	:2012-11-11
Fundamental Frequency	:2437 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX MID	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.69	0.00	29.69	43.50	-13.81	
199.75	S	Peak	33.43	0.00	33.43	43.50	-10.07	
398.60	S	Peak	29.34	0.00	29.34	46.00	-16.66	
576.11	S	Peak	30.57	0.00	30.57	46.00	-15.43	
966.05	S	Peak	33.30	0.00	33.30	54.00	-20.70	
995.15	S	Peak	31.77	0.00	31.77	54.00	-22.23	
4874.00	H	Average	24.65	7.08	31.73	54.00	-22.27	
4874.00	H	Peak	37.12	7.08	44.20	74.00	-29.80	
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 40M	Test Date	:2012-11-11
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
35.82	S	Peak	30.76	0.00	30.76	40.00	-9.24	
95.96	S	Peak	35.54	0.00	35.54	43.50	-7.96	
199.75	S	Peak	29.10	0.00	29.10	43.50	-14.40	
566.41	S	Peak	33.40	0.00	33.40	46.00	-12.60	
962.17	S	Peak	37.03	0.00	37.03	54.00	-16.97	
995.15	S	Peak	35.33	0.00	35.33	54.00	-18.67	
4904.00	H	Average	25.13	7.17	32.30	54.00	-21.70	
4904.00	H	Peak	37.37	7.17	44.54	74.00	-29.46	
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	:2012-11-11
Fundamental Frequency	:2452 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX HIGH	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.70	0.00	29.70	43.50	-13.80	
199.75	S	Peak	33.74	0.00	33.74	43.50	-9.76	
398.60	S	Peak	28.86	0.00	28.86	46.00	-17.14	
576.11	S	Peak	30.34	0.00	30.34	46.00	-15.66	
962.17	S	Peak	33.06	0.00	33.06	54.00	-20.94	
995.15	S	Peak	32.02	0.00	32.02	54.00	-21.98	
4904.00	H	Average	24.85	7.09	31.94	54.00	-22.06	
4904.00	H	Peak	36.95	7.09	44.04	74.00	-29.96	
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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Radiated Spurious Emission Measurement Result (802.11a)

Operation Band :802.11a Test Date :2012-11-11
 Fundamental Frequency :5745 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak		31.79	0.00	31.79	40.00	-8.21
95.96	S	Peak		36.88	0.00	36.88	43.50	-6.62
199.75	S	Peak		29.64	0.00	29.64	43.50	-13.86
566.41	S	Peak		33.47	0.00	33.47	46.00	-12.53
966.05	S	Peak		37.50	0.00	37.50	54.00	-16.50
995.15	S	Peak		34.82	0.00	34.82	54.00	-19.18
11490.00	H	Peak		18.94	17.60	36.54	74.00	-37.46
17235.00	H	---						
22980.00	H	---						
28725.00	H	---						
34470.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5745 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX LOW **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
95.96	S	Peak	30.76	0.00	30.76	43.50	-12.74
199.75	S	Peak	33.58	0.00	33.58	43.50	-9.92
335.55	S	Peak	28.66	0.00	28.66	46.00	-17.34
576.11	S	Peak	30.75	0.00	30.75	46.00	-15.25
966.05	S	Peak	33.40	0.00	33.40	54.00	-20.60
995.15	S	Peak	31.34	0.00	31.34	54.00	-22.66
11490.00	H	Peak	18.65	17.40	36.05	74.00	-37.95
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	32.04	0.00	32.04	40.00	-7.96	
95.96	S	Peak	36.66	0.00	36.66	43.50	-6.84	
199.75	S	Peak	28.95	0.00	28.95	43.50	-14.55	
566.41	S	Peak	33.90	0.00	33.90	46.00	-12.10	
966.05	S	Peak	38.02	0.00	38.02	54.00	-15.98	
995.15	S	Peak	35.79	0.00	35.79	54.00	-18.21	
11570.00	H	Peak	18.60	17.69	36.29	74.00	-37.71	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	29.62	0.00	29.62	43.50	-13.88	
199.75	S	Peak	33.43	0.00	33.43	43.50	-10.07	
398.60	S	Peak	28.18	0.00	28.18	46.00	-17.82	
576.11	S	Peak	30.45	0.00	30.45	46.00	-15.55	
962.17	S	Peak	32.87	0.00	32.87	54.00	-21.13	
995.15	S	Peak	33.15	0.00	33.15	54.00	-20.85	
11570.00	H	Peak	18.81	17.49	36.30	74.00	-37.70	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5825 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak		31.21	0.00	31.21	40.00	-8.79
95.96	S	Peak		36.61	0.00	36.61	43.50	-6.89
199.75	S	Peak		28.53	0.00	28.53	43.50	-14.97
566.41	S	Peak		34.51	0.00	34.51	46.00	-11.49
966.05	S	Peak		38.08	0.00	38.08	54.00	-15.92
995.15	S	Peak		35.09	0.00	35.09	54.00	-18.91
11650.00	H	Peak		18.96	17.78	36.74	74.00	-37.26
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Operation Band :802.11a **Test Date** :2012-11-11
Fundamental Frequency :5825 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	46.84	-17.13	29.71	43.50	-13.79	
199.75	S	Peak	49.64	-16.10	33.54	43.50	-9.96	
288.02	S	Peak	42.01	-12.86	29.15	46.00	-16.85	
576.11	S	Peak	38.70	-8.08	30.62	46.00	-15.38	
966.05	S	Peak	35.44	-2.03	33.41	54.00	-20.59	
999.03	S	Peak	35.71	-1.84	33.87	54.00	-20.13	
11650.00	H	Peak	18.29	17.58	35.87	74.00	-38.13	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Radiated Spurious Emission Measurement Result (802.11n_20M (5GHz))

Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5745 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	45.31	-13.86	31.45	40.00	-8.55	
95.96	S	Peak	53.44	-17.13	36.31	43.50	-7.19	
199.75	S	Peak	44.69	-16.10	28.59	43.50	-14.91	
499.48	S	Peak	37.64	-9.60	28.04	46.00	-17.96	
566.41	S	Peak	41.82	-8.25	33.57	46.00	-12.43	
966.05	S	Peak	40.30	-2.03	38.27	54.00	-15.73	
11490.00	H	Peak	18.58	17.60	36.18	74.00	-37.82	
17235.00	H	---						
22980.00	H	---						
28725.00	H	---						
34470.00	H	---						

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5745 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX LOW **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
95.96	S	Peak	45.78	-17.13	28.65	43.50	-14.85
199.75	S	Peak	50.56	-16.10	34.46	43.50	-9.04
288.02	S	Peak	42.48	-12.86	29.62	46.00	-16.38
335.55	S	Peak	40.77	-11.86	28.91	46.00	-17.09
576.11	S	Peak	38.65	-8.08	30.57	46.00	-15.43
966.05	S	Peak	34.03	-2.03	32.00	54.00	-22.00
11490.00	H	Peak	18.98	17.40	36.38	74.00	-37.62
17235.00	H	---	---				
22980.00	H	---	---				
28725.00	H	---	---				
34470.00	H	---	---				

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5785 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX MID **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit	Margin
					FS dB μ V	@3m dB μ V/m	dB μ V/m
36.79	S	Peak	45.84	-13.86	31.98	40.00	-8.02
95.96	S	Peak	54.20	-17.13	37.07	43.50	-6.43
199.75	S	Peak	45.21	-16.10	29.11	43.50	-14.39
499.48	S	Peak	37.72	-9.60	28.12	46.00	-17.88
566.41	S	Peak	41.98	-8.25	33.73	46.00	-12.27
966.05	S	Peak	39.77	-2.03	37.74	54.00	-16.26
11570.00	H	Peak	18.17	17.69	35.86	74.00	-38.14
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5785 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX MID Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	46.70	-17.13	29.57	43.50	-13.93	
199.75	S	Peak	49.79	-16.10	33.69	43.50	-9.81	
240.49	S	Peak	42.96	-14.19	28.77	46.00	-17.23	
398.60	S	Peak	39.96	-11.07	28.89	46.00	-17.11	
576.11	S	Peak	38.58	-8.08	30.50	46.00	-15.50	
962.17	S	Peak	34.99	-2.05	32.94	54.00	-21.06	
11570.00	H	Peak	18.99	17.49	36.48	74.00	-37.52	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11n 20M Test Date :2012-11-11
 Fundamental Frequency :5825 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
36.79	S	Peak	45.63	-13.86	31.77	40.00	-8.23	
95.96	S	Peak	53.36	-17.13	36.23	43.50	-7.27	
199.75	S	Peak	44.81	-16.10	28.71	43.50	-14.79	
499.48	S	Peak	37.52	-9.60	27.92	46.00	-18.08	
564.47	S	Peak	42.42	-8.28	34.14	46.00	-11.86	
966.05	S	Peak	40.58	-2.03	38.55	54.00	-15.45	
11650.00	H	Peak	19.45	17.78	37.23	74.00	-36.77	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Operation Band :802.11n 20M **Test Date** :2012-11-11
Fundamental Frequency :5825 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	46.61	-17.13	29.48	43.50	-14.02	
199.75	S	Peak	50.07	-16.10	33.97	43.50	-9.53	
288.02	S	Peak	42.08	-12.86	29.22	46.00	-16.78	
398.60	S	Peak	39.45	-11.07	28.38	46.00	-17.62	
576.11	S	Peak	38.27	-8.08	30.19	46.00	-15.81	
966.05	S	Peak	34.38	-2.03	32.35	54.00	-21.65	
11650.00	H	Peak	18.59	17.58	36.17	74.00	-37.83	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Radiated Spurious Emission Measurement Result (802.11n_40M (5GHz))

Operation Band :802.11n 40M Test Date :2012-11-11
Fundamental Frequency :5755 MHz Temp./Humi. :25.1deg_C/64RH
Operation Mode :TX LOW Engineer :Marcus
EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level	Factor dB	Actual	Limit @3m	Margin
					FS dB μ V/m	dB μ V/m	dB
35.82	S	Peak	45.89	-13.99	31.90	40.00	-8.10
95.96	S	Peak	53.70	-17.13	36.57	43.50	-6.93
199.75	S	Peak	45.79	-16.10	29.69	43.50	-13.81
499.48	S	Peak	39.08	-9.60	29.48	46.00	-16.52
566.41	S	Peak	41.93	-8.25	33.68	46.00	-12.32
966.05	S	Peak	39.79	-2.03	37.76	54.00	-16.24
11510.00	H	Peak	18.69	17.67	36.36	74.00	-37.64
17265.00	H	---					
23020.00	H	---					
28775.00	H	---					
34530.00	H	---					

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Operation Band	:802.11n 40M	Test Date	:2012-11-11
Fundamental Frequency	:5755 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Marcus
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	47.00	-17.13	29.87	43.50	-13.63	
199.75	S	Peak	49.76	-16.10	33.66	43.50	-9.84	
288.02	S	Peak	41.92	-12.86	29.06	46.00	-16.94	
335.55	S	Peak	40.51	-11.86	28.65	46.00	-17.35	
576.11	S	Peak	38.62	-8.08	30.54	46.00	-15.46	
966.05	S	Peak	35.17	-2.03	33.14	54.00	-20.86	
11510.00	H	Peak	18.51	17.47	35.98	74.00	-38.02	
17265.00	H	---						
23020.00	H	---						
28775.00	H	---						
34530.00	H	---						

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Operation Band :802.11n 40M Test Date :2012-11-11
 Fundamental Frequency :5795 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX HIGH Engineer :Marcus
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
36.79	S	Peak	45.86	-13.86	32.00	40.00	-8.00	
95.96	S	Peak	53.01	-17.13	35.88	43.50	-7.62	
199.75	S	Peak	44.98	-16.10	28.88	43.50	-14.62	
499.48	S	Peak	37.86	-9.60	28.26	46.00	-17.74	
566.41	S	Peak	42.11	-8.25	33.86	46.00	-12.14	
966.05	S	Peak	38.75	-2.03	36.72	54.00	-17.28	
11590.00	H	Peak	19.09	17.69	36.78	74.00	-37.22	
17385.00	H	---						
23180.00	H	---						
28975.00	H	---						
34770.00	H	---						

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Operation Band :802.11n 40M **Test Date** :2012-11-11
Fundamental Frequency :5795 MHz **Temp./Humi.** :25.1deg_C/64RH
Operation Mode :TX HIGH **Engineer** :Marcus
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) - Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

Freq. MHz	Note F/H/E/S	Detector Mode	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	dB μ V				
95.96	S	Peak	46.54	-17.13	29.41	43.50	-14.09	
199.75	S	Peak	50.48	-16.10	34.38	43.50	-9.12	
288.02	S	Peak	42.29	-12.86	29.43	46.00	-16.57	
335.55	S	Peak	40.78	-11.86	28.92	46.00	-17.08	
576.11	S	Peak	38.48	-8.08	30.40	46.00	-15.60	
995.15	S	Peak	35.56	-1.87	33.69	54.00	-20.31	
11590.00	H	Peak	18.96	17.49	36.45	74.00	-37.55	
17385.00	H	---						
23180.00	H	---						
28975.00	H	---						
34770.00	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.

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

11.2 Measurement Equipment Used:

Refer to section 7.2 for details.

11.3 Test Set-up:

Refer to section 7.3 for details.

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11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
10. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/100 \text{ kHz}) = -15.2 \text{ dB}$.
11. The resulting peak PSD level must be ≤ 8 dBm.
12. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. . The single transmitting mode is only reported measurement that produces higher value of outcome.

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11.5 Measurement Result:

802.11b

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dBm	Level (dBm)	(dBm)
2412	4.53	-15.20	-10.67	8
2437	4.75	-15.20	-10.45	8
2462	4.72	-15.20	-10.48	8

802.11g

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dBm	Level (dBm)	(dBm)
2412	-12.66	-15.20	-27.86	8
2437	-12.79	-15.20	-27.99	8
2462	-13.65	-15.20	-28.85	8

802.11n_20M

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dB	Level (dBm)	(dBm)
2412	-14.87	-15.20	-30.07	8
2437	-11.71	-15.20	-26.91	8
2462	-14.63	-15.20	-29.83	8

802.11n_40M

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dB	Level (dBm)	(dBm)
2422	-17.92	-15.20	-33.12	8
2437	-16.83	-15.20	-32.03	8
2452	-18.22	-15.20	-33.42	8

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802.11a

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dB	Level (dBm)	(dBm)
5745	-17.98	-15.20	-33.18	8
5785	-16.32	-15.20	-31.52	8
5825	-16.14	-15.20	-31.34	8

802.11n_20M (5GHz)

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dB	Level (dBm)	(dBm)
5745	-14.27	-15.20	-29.47	8
5785	-13.58	-15.20	-28.78	8
5825	-13.65	-15.20	-28.85	8

802.11 n_40M (5GHz)

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dB	Level (dBm)	(dBm)
5755	-17.20	-15.20	-32.40	8
5795	-14.92	-15.20	-30.12	8

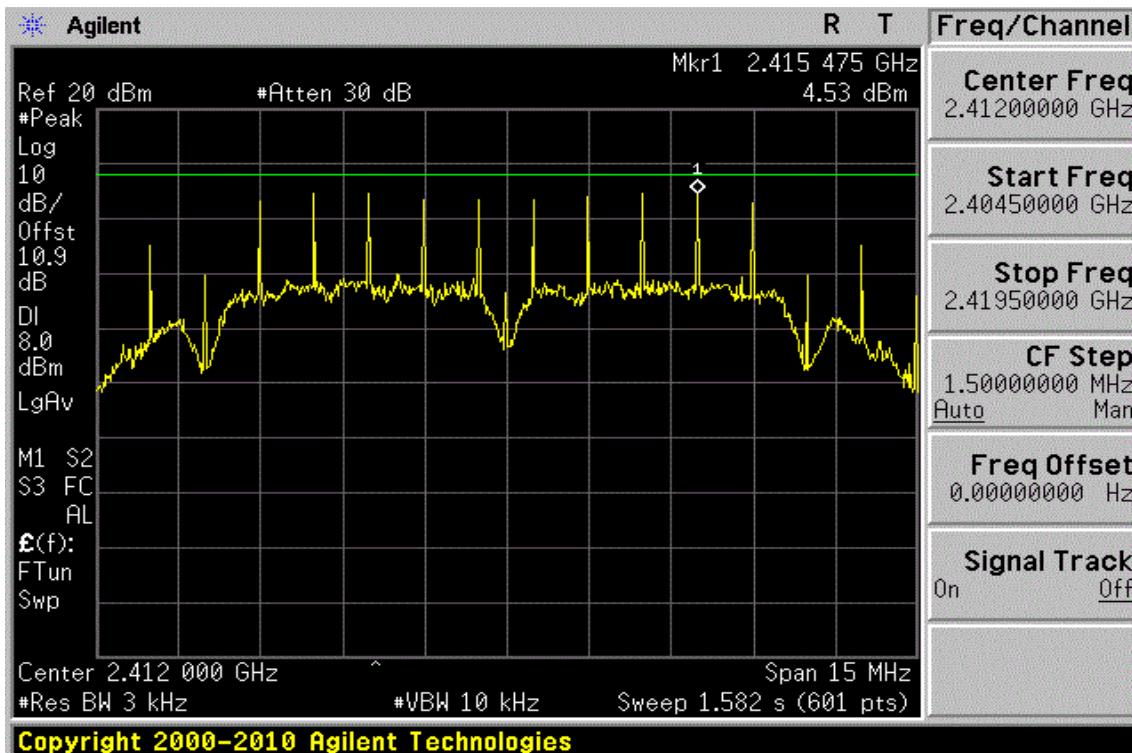
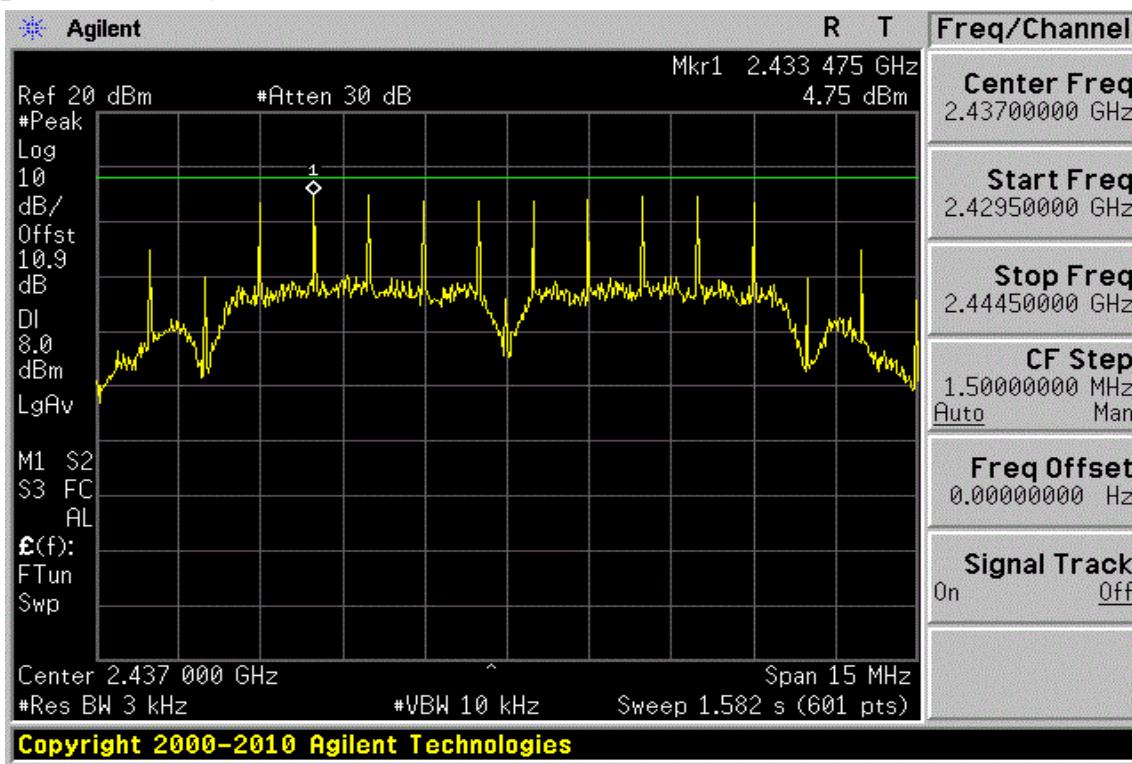
*Offset 10.9 dB for 2.4G

14.4 dB for 5G

Note: Refer to next page for plots.

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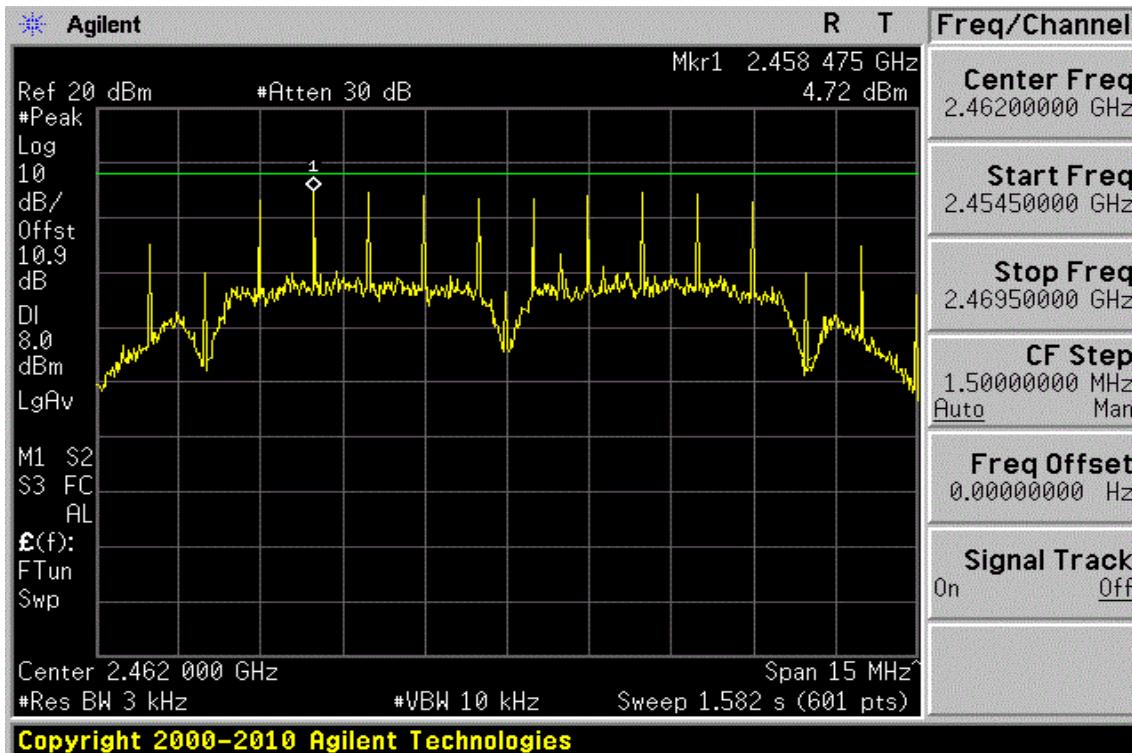
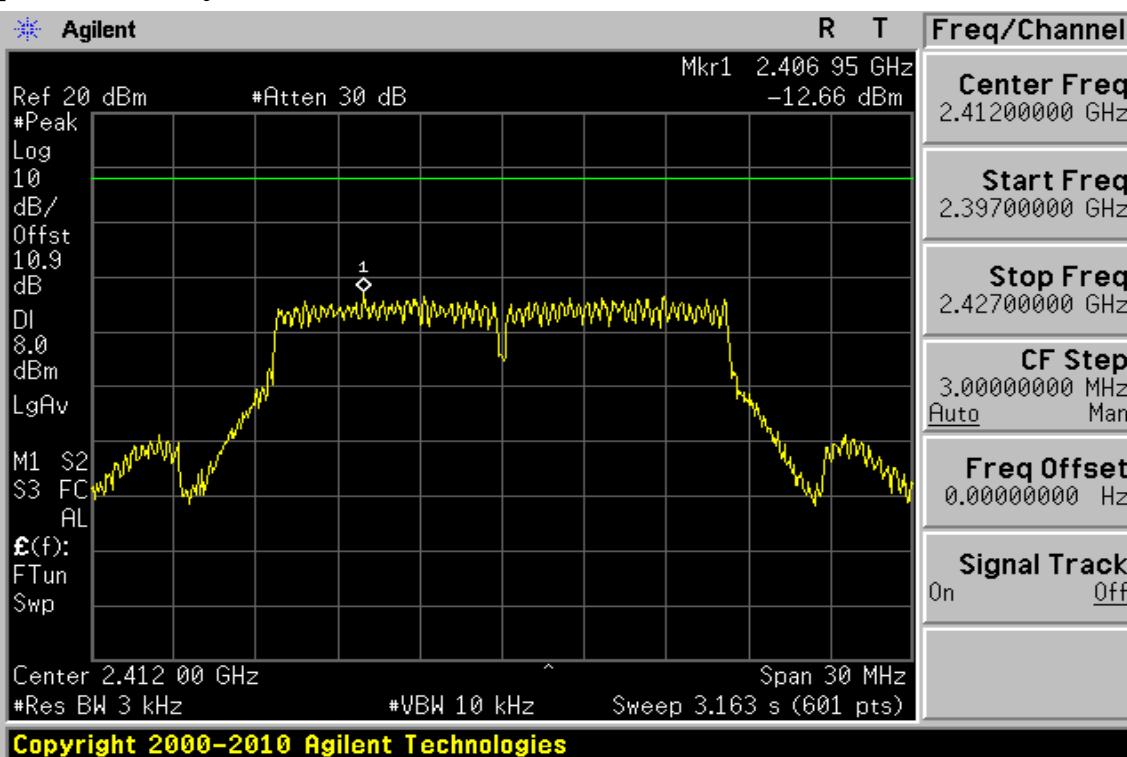
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802.11b
Power Spectral Density Test Plot (CH-Low)

Power Spectral Density Test Plot (CH-Mid)


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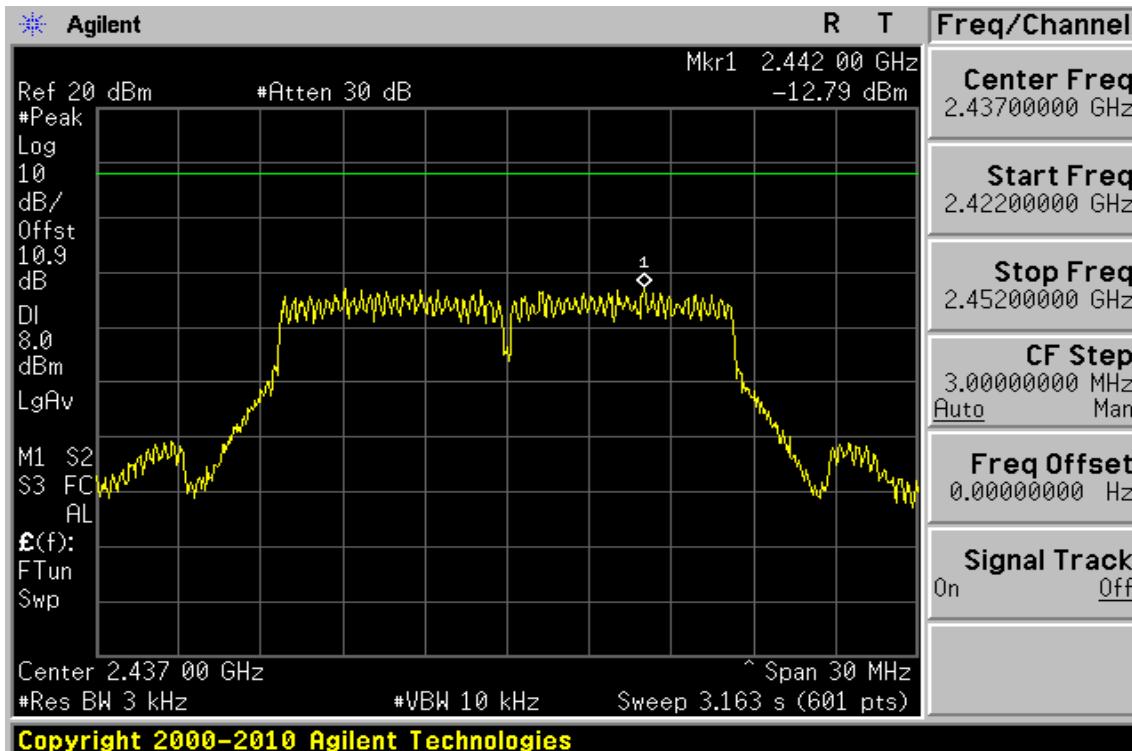
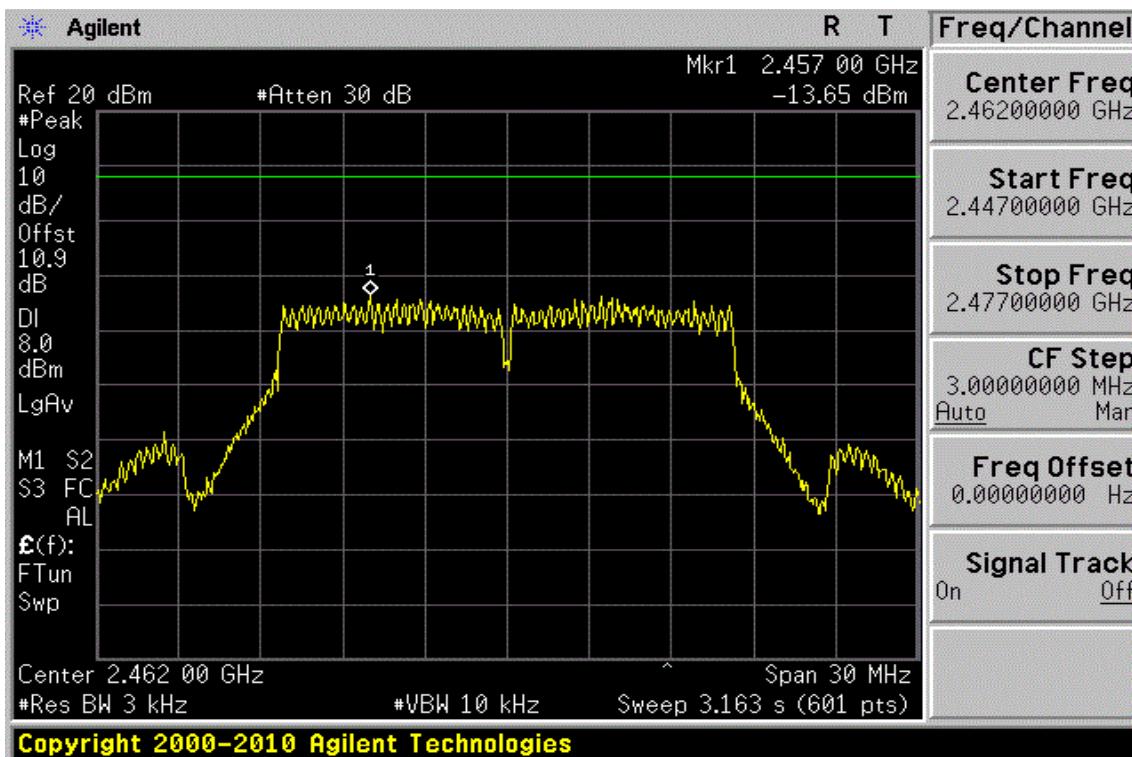
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Power Spectral Density Test Plot (CH-High)

802.11g
Power Spectral Density Test Plot (CH-Low)


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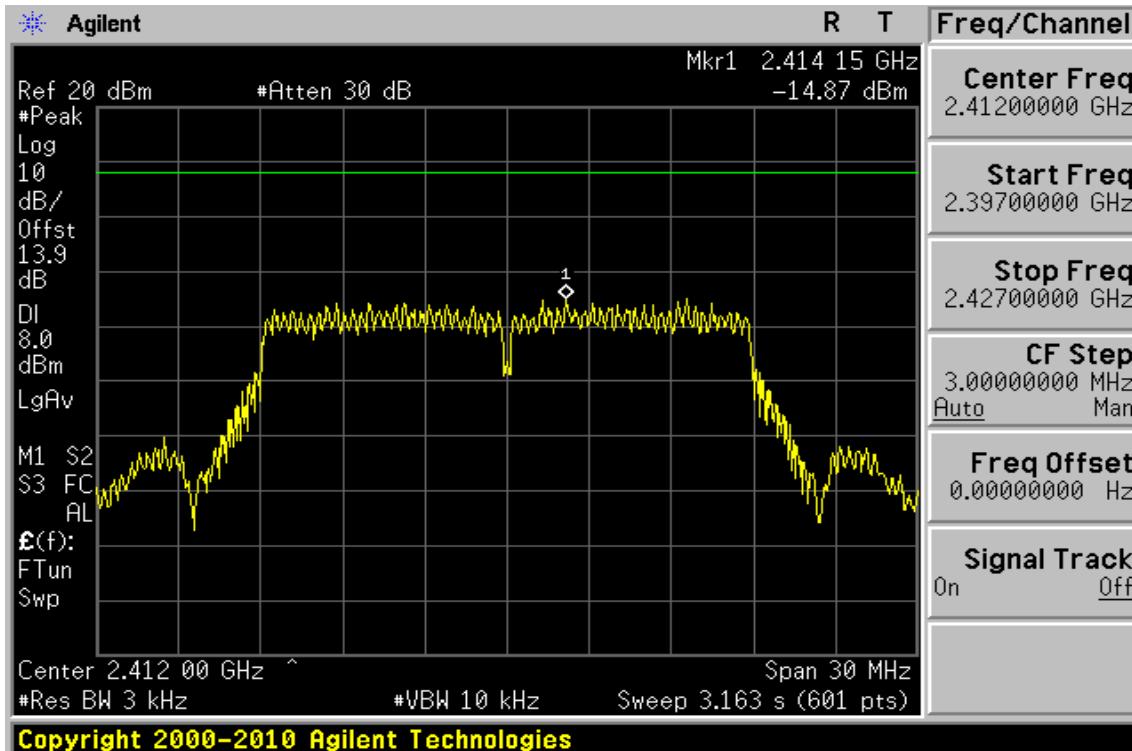
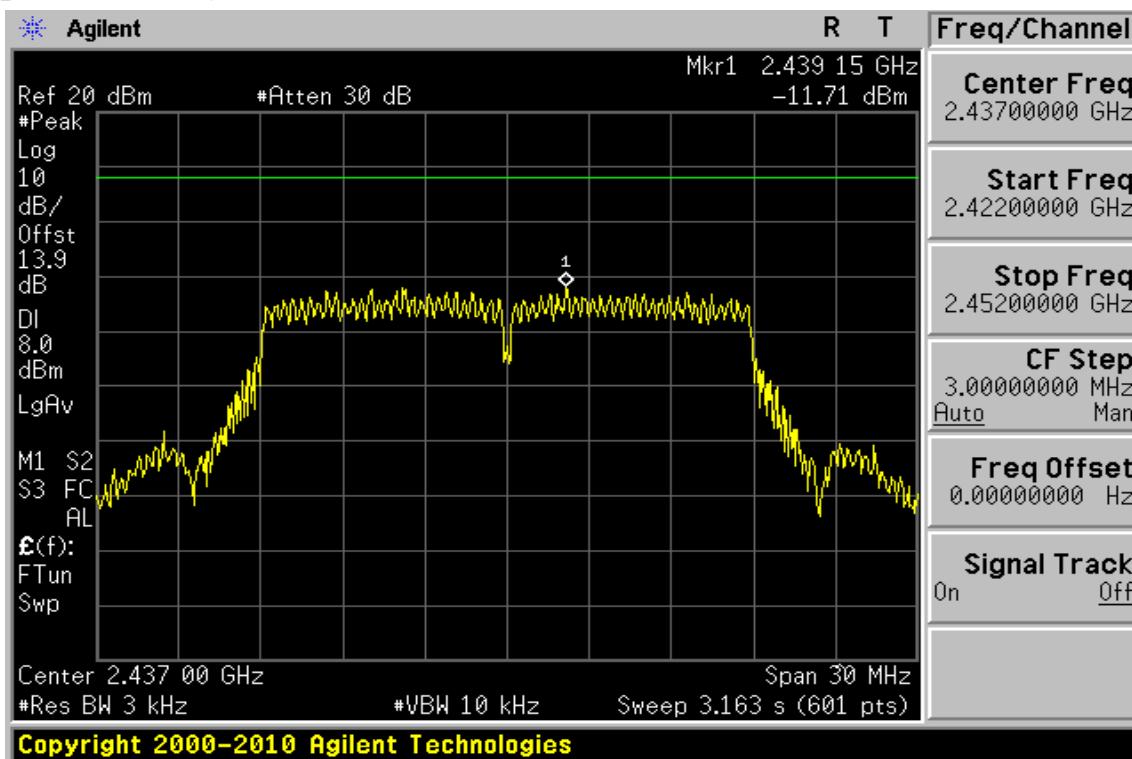
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Power Spectral Density Test Plot (CH-Mid)

Power Spectral Density Test Plot (CH-High)


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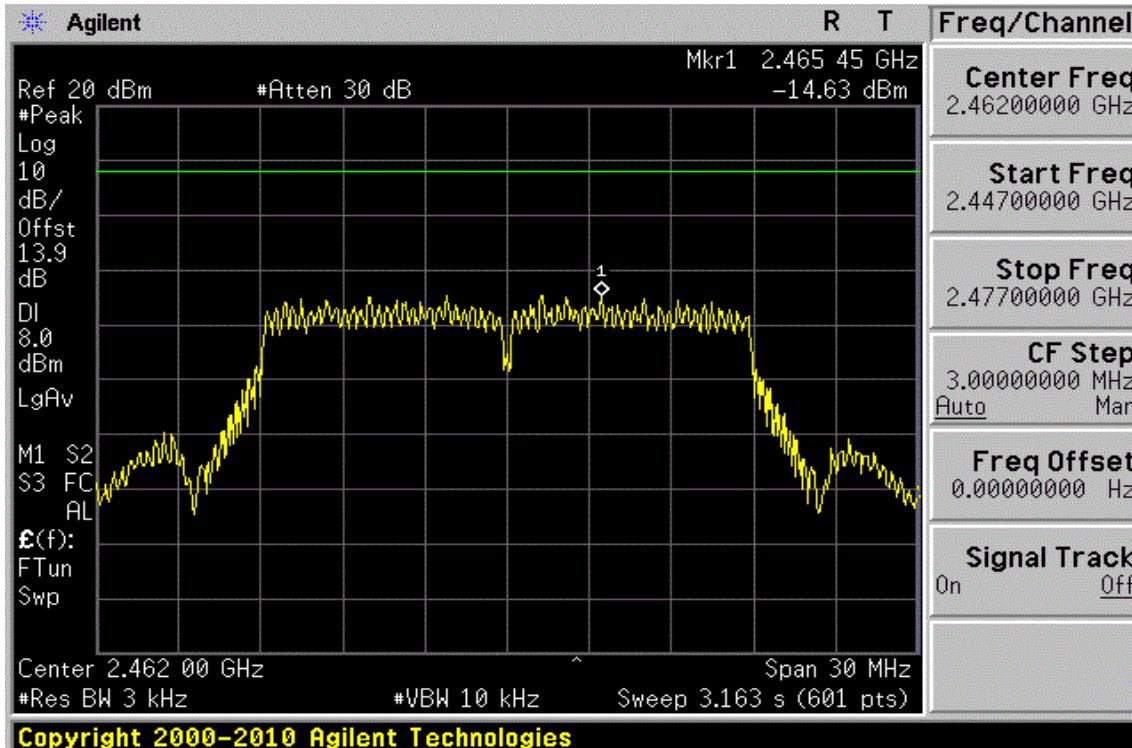
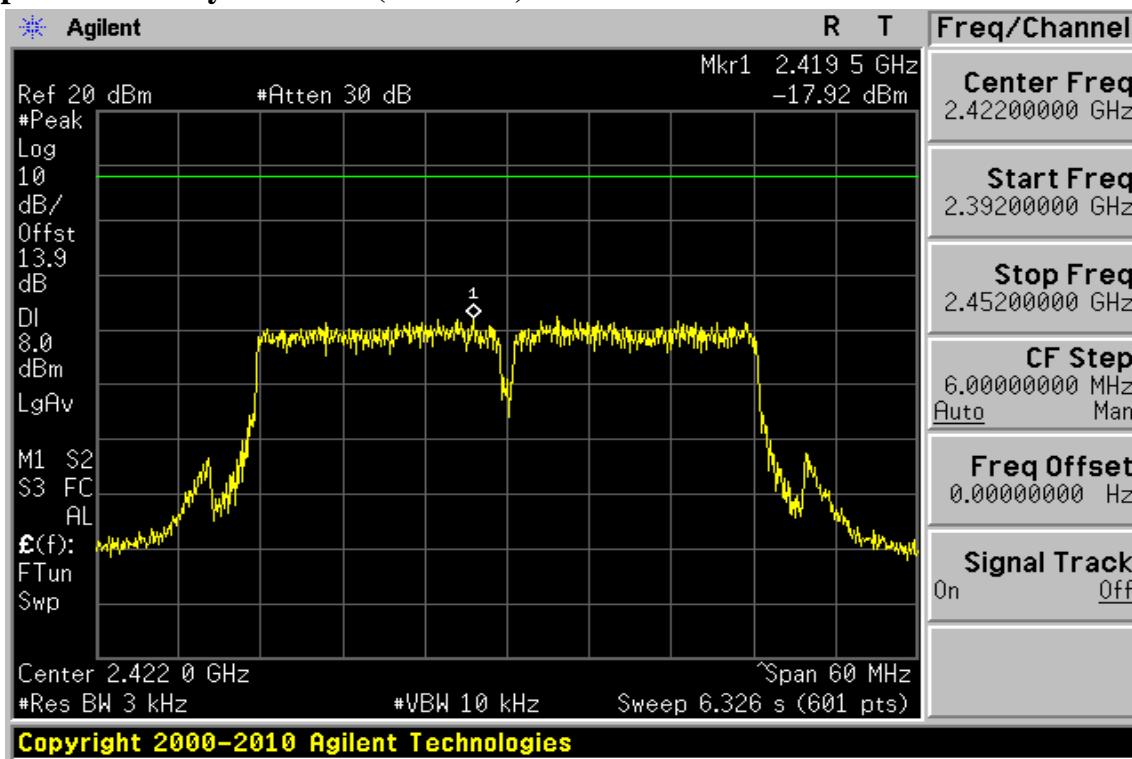
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802.11n_20M (2.4GHz)**Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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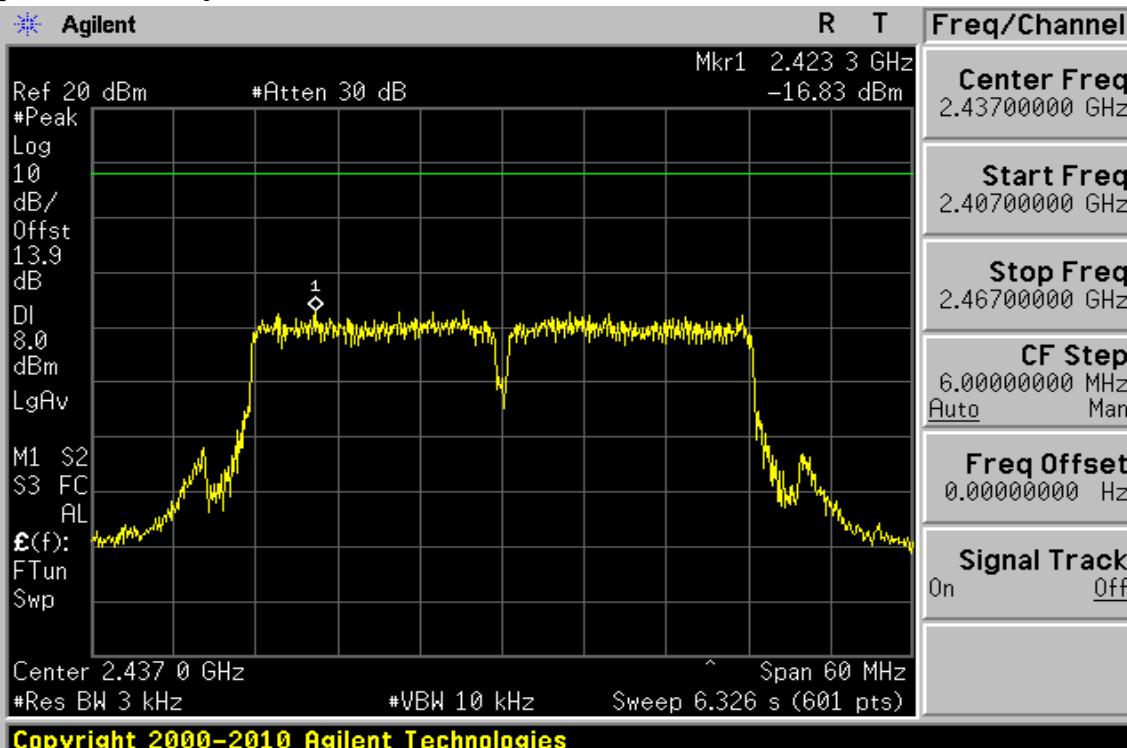
Power Spectral Density Test Plot (CH-High)

802.11n_40M (2.4GHz)
Power Spectral Density Test Plot (CH-Low)


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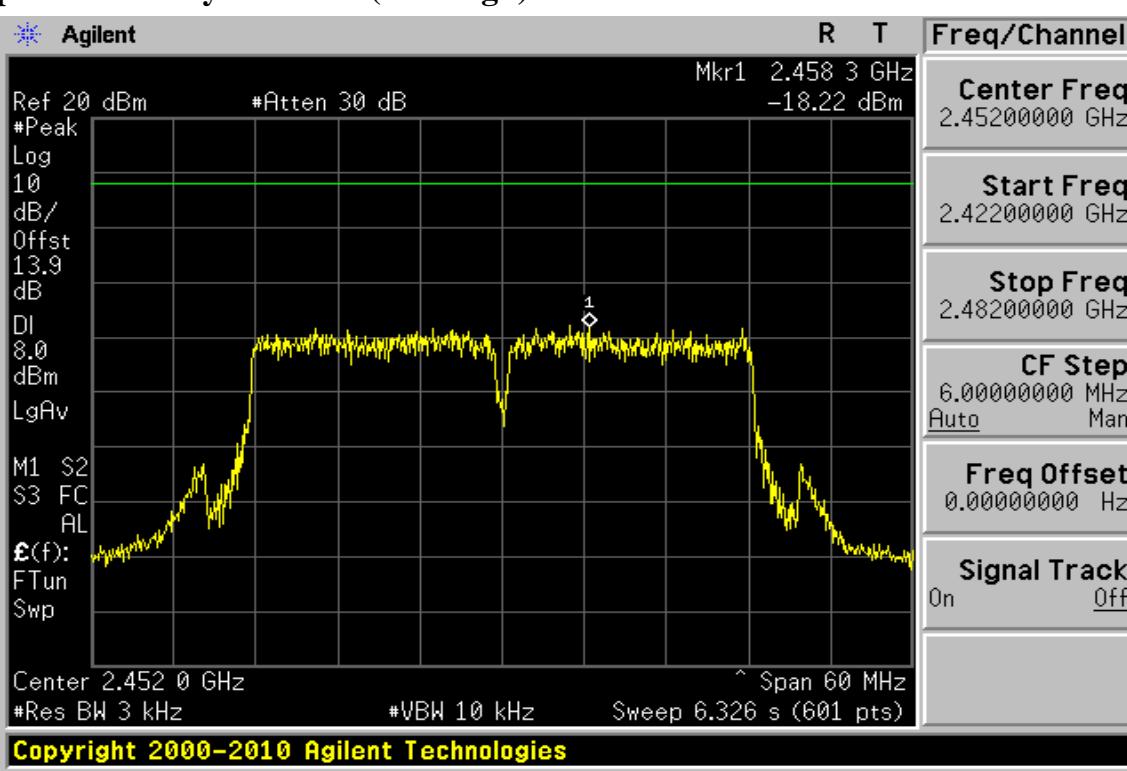
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Power Spectral Density Test Plot (CH-Mid)



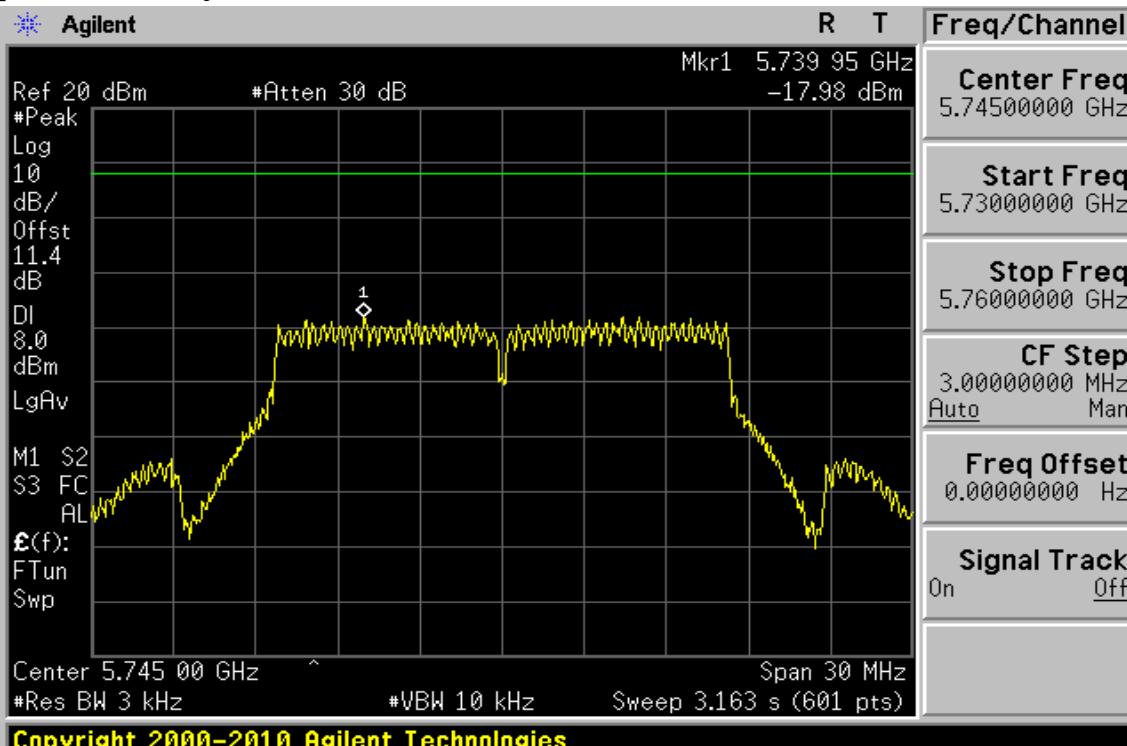
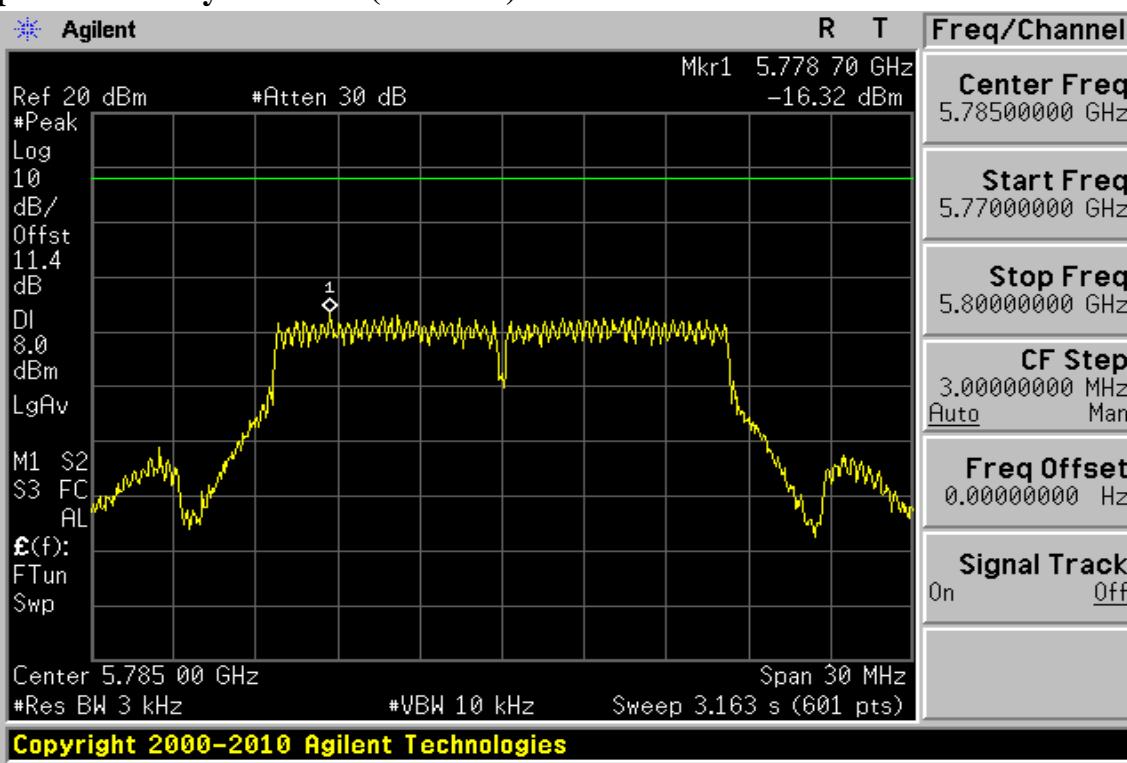
Power Spectral Density Test Plot (CH-High)



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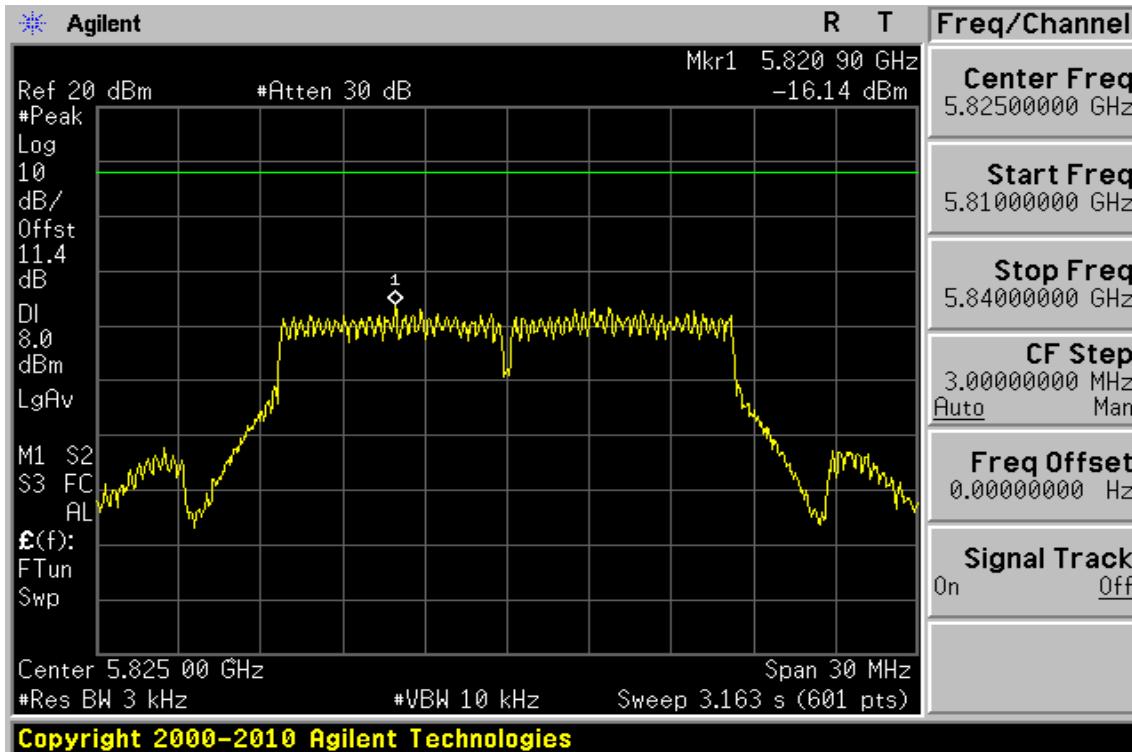
802.11a
Power Spectral Density Test Plot (CH-Low)

Power Spectral Density Test Plot (CH-Mid)


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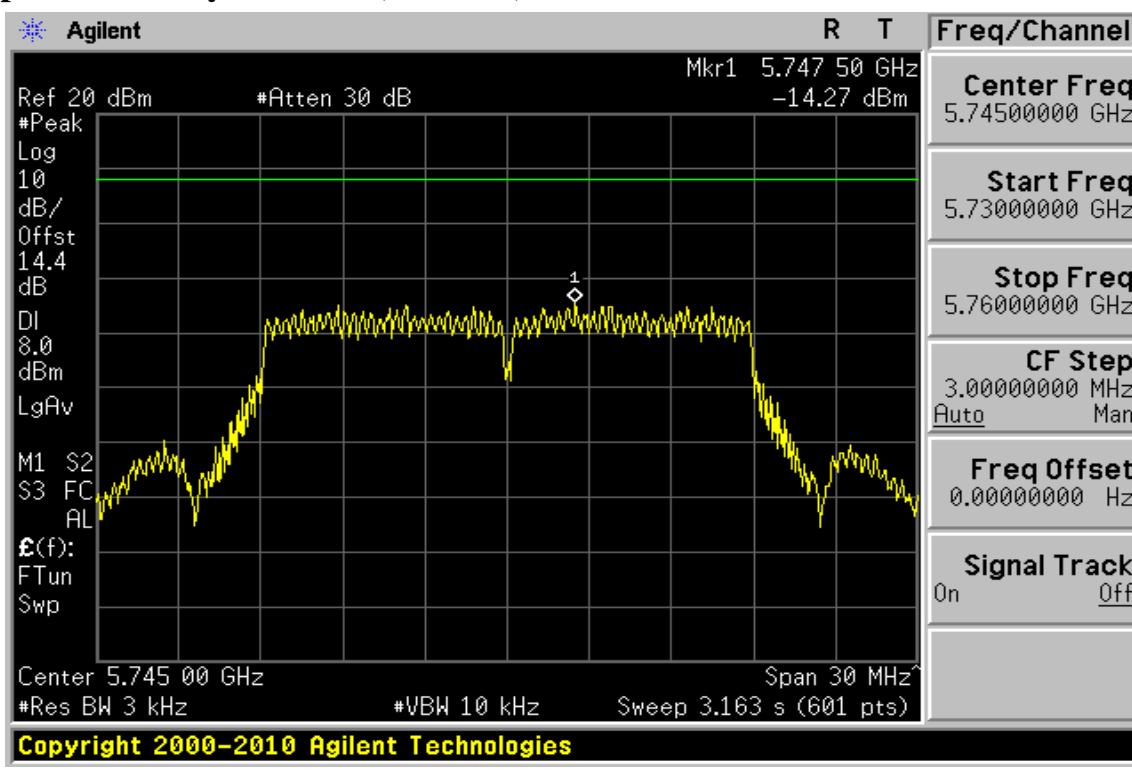
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Power Spectral Density Test Plot (CH-High)



802.11n_20M (5GHz)

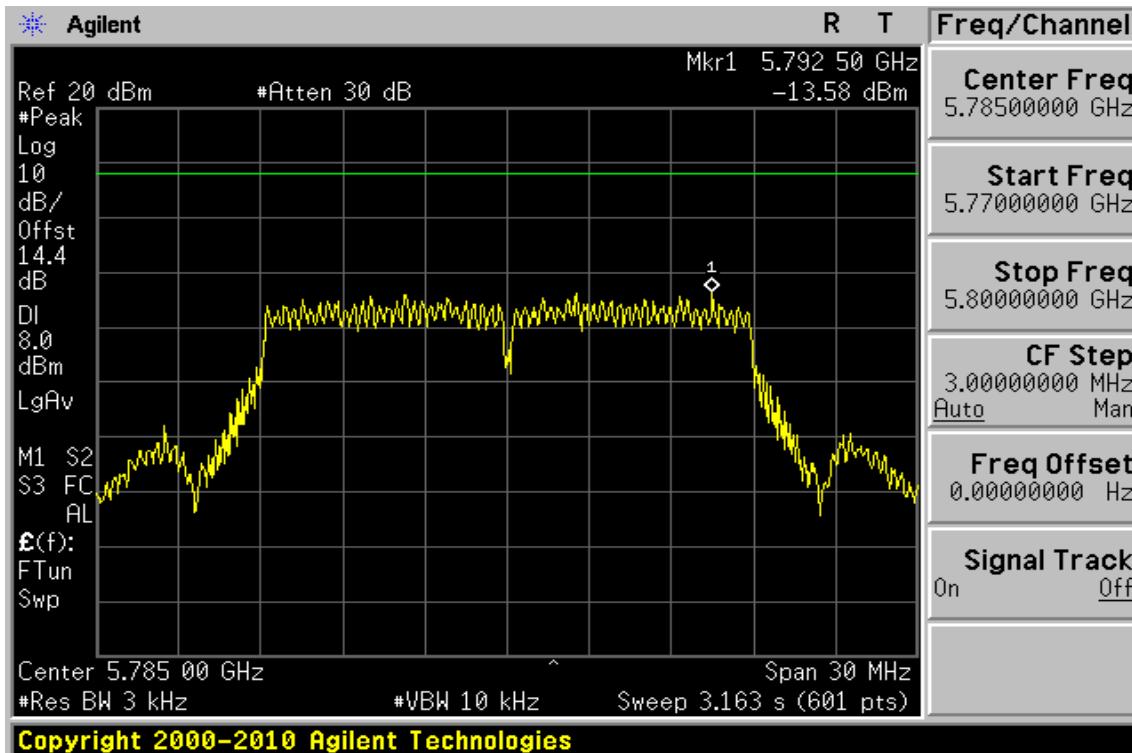
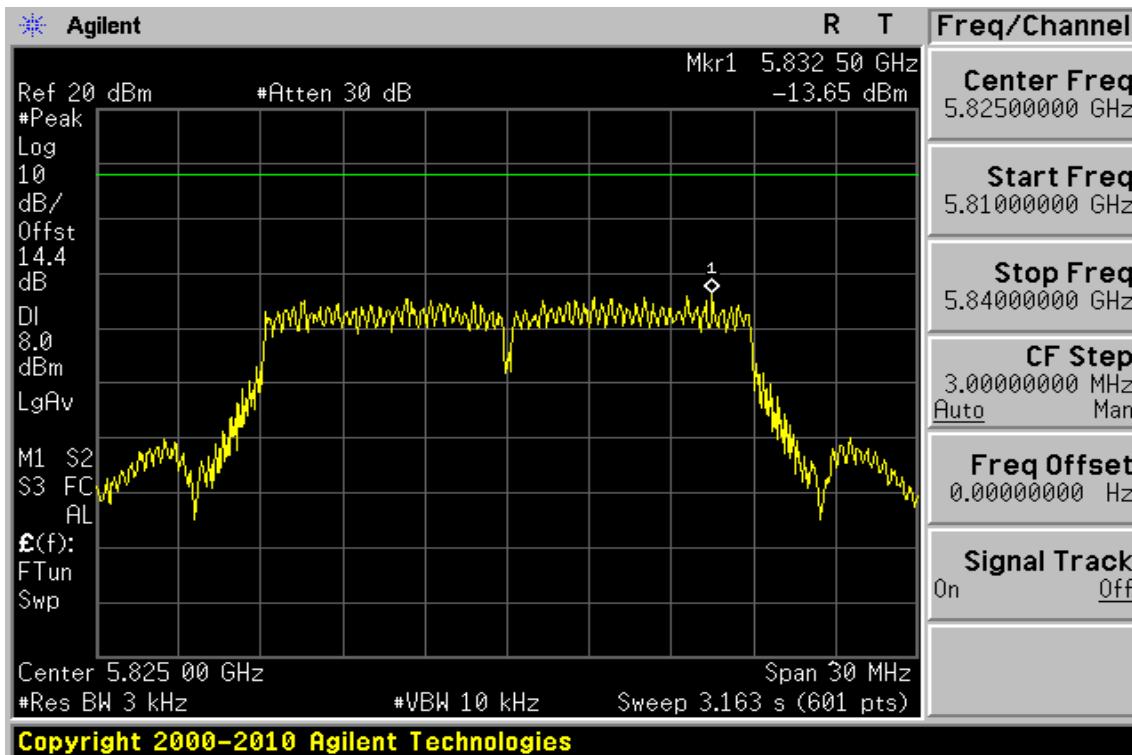
Power Spectral Density Test Plot (CH-Low)



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Power Spectral Density Test Plot (CH-Mid)

Power Spectral Density Test Plot (CH-High)


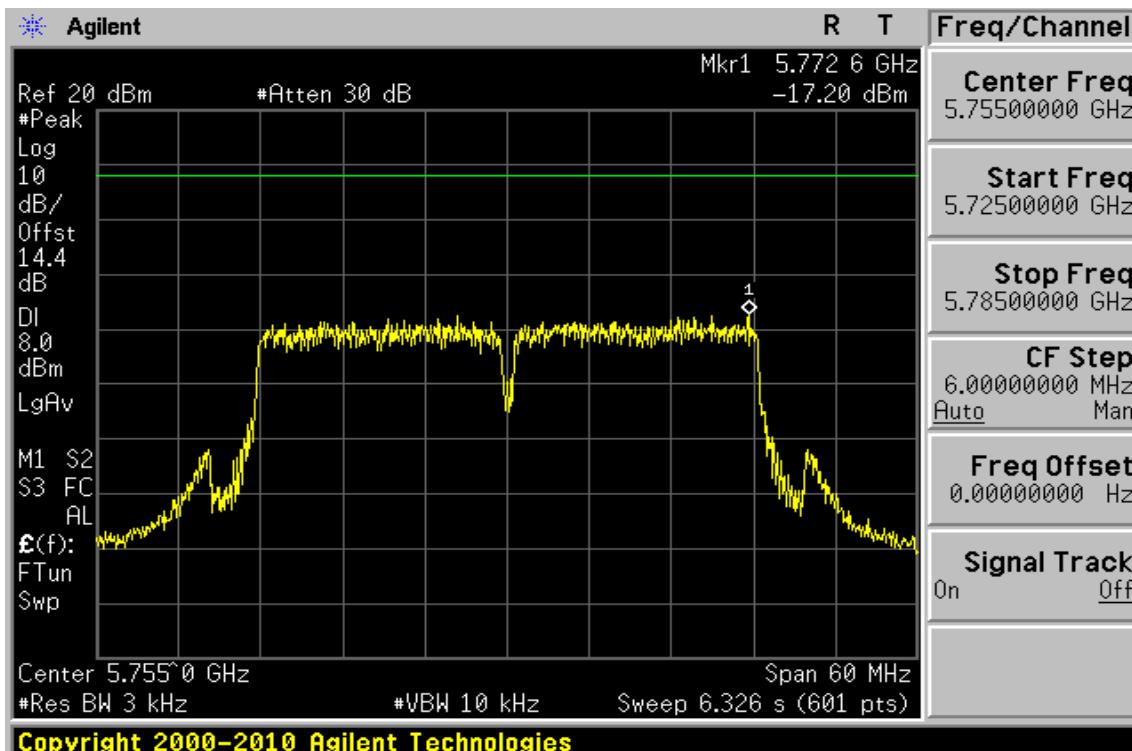
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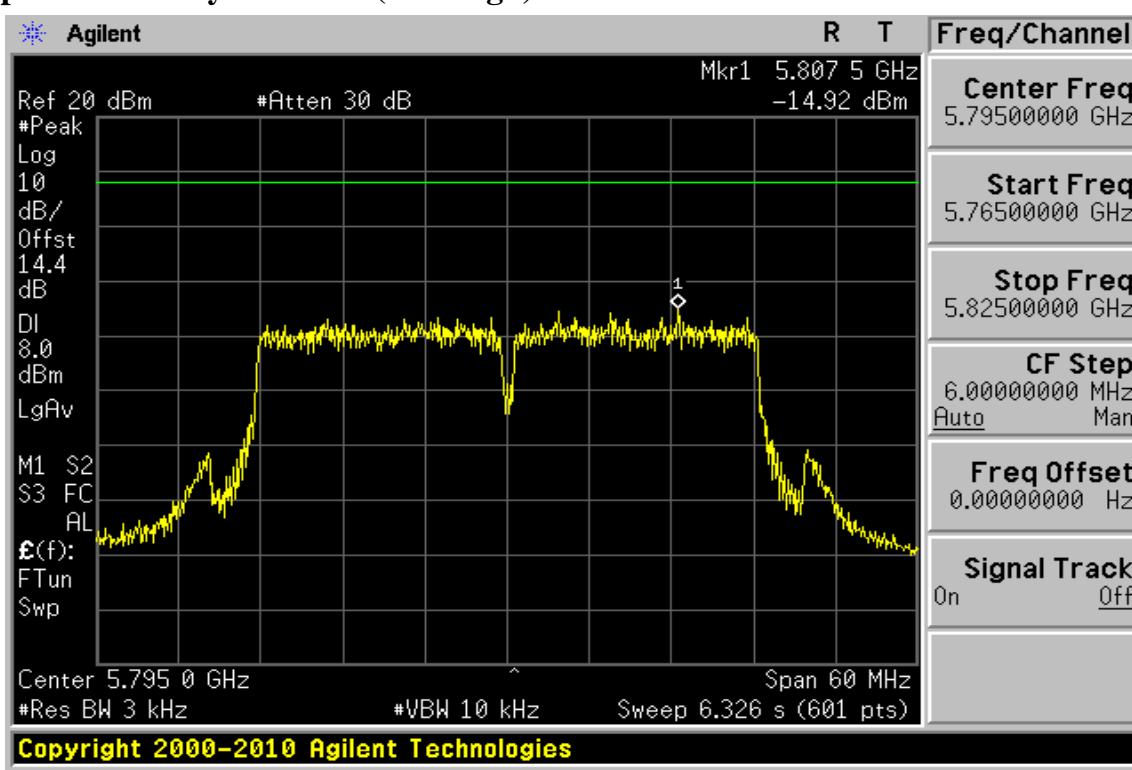
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802.11n_40M (5GHz)

Power Spectral Density Test Plot (CH-Low)



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.

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

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

12.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is 2.0dBi for 2.4GHz (Internal Antenna) and 2.1dBi for 2.4GHz (External Antenna). 4.0dBi for 5725MHz -5850MHz (Internal Antenna) and 5.0 dBi for 5725MHz -5850MHz (External Antenna) the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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13 99% BANDWIDTH MEASUREMENT

13.1 Standard Applicable:

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

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

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

13.2 Measurement Equipment Used:

Refer to section 7.2 for details.

13.3 Test Set-up:

Refer to section 7.3 for details.

13.4 Measurement Procedure:

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

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13.5 Measurement Result:

802.11b

Frequency MHz	99%Bandwidth (MHz)
2412	13.2235
2437	13.3380
2462	13.2327

802.11g

Frequency MHz	99%Bandwidth (MHz)
2412	17.2213
2437	17.1582
2462	17.2916

802.11n_20M (2.4GHz)

Frequency MHz	99%Bandwidth (MHz)
2412	17.8283
2437	17.8152
2462	17.8623

802.11n_40M (2.4GHz)

Frequency MHz	99%Bandwidth (MHz)
2422	36.2076
2437	36.2295
2452	36.2276

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802.11a

Frequency MHz	99%Bandwidth (MHz)
5745	17.0238
5785	17.1583
5825	17.1279

802.11n_20M (5GHz)

Frequency MHz	99%Bandwidth (MHz)
5745	17.8428
5785	17.8277
5825	17.8237

802.11n_40M (5GHz)

Frequency MHz	99%Bandwidth (MHz)
5755	36.2132
5795	36.2834

*Offset 10.9 dB for 2.4G

11.4 dB for 5G

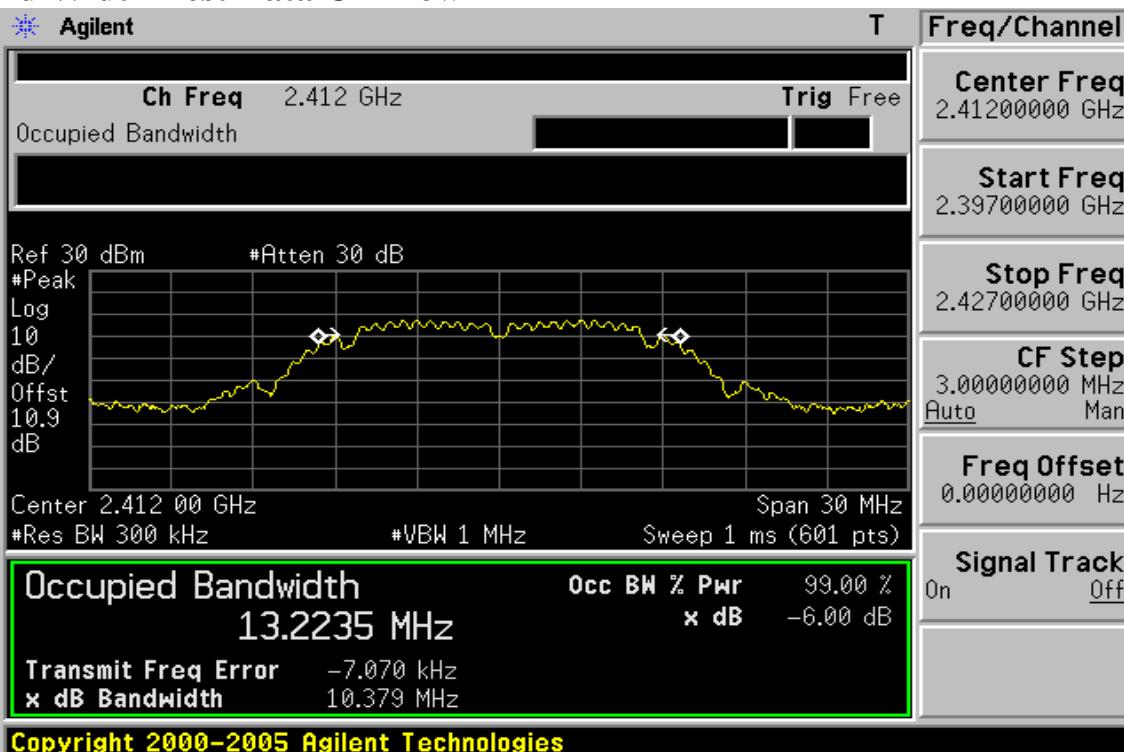
Note: Refer to next page for plots.

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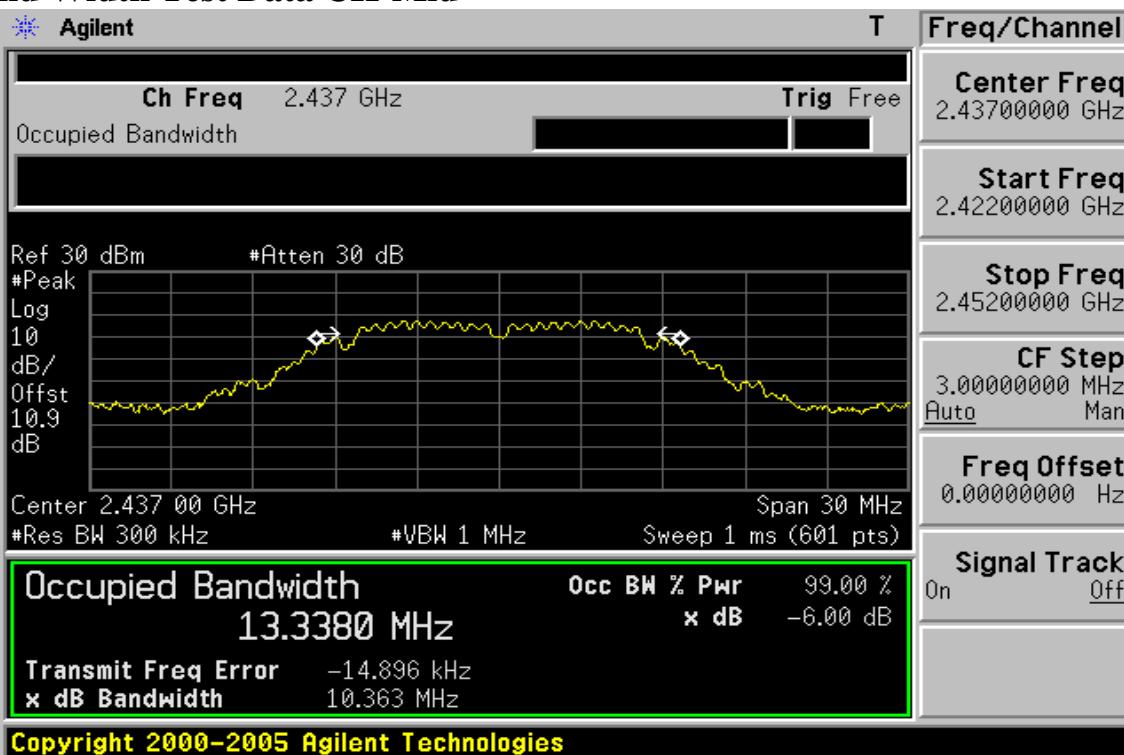
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802.11b

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

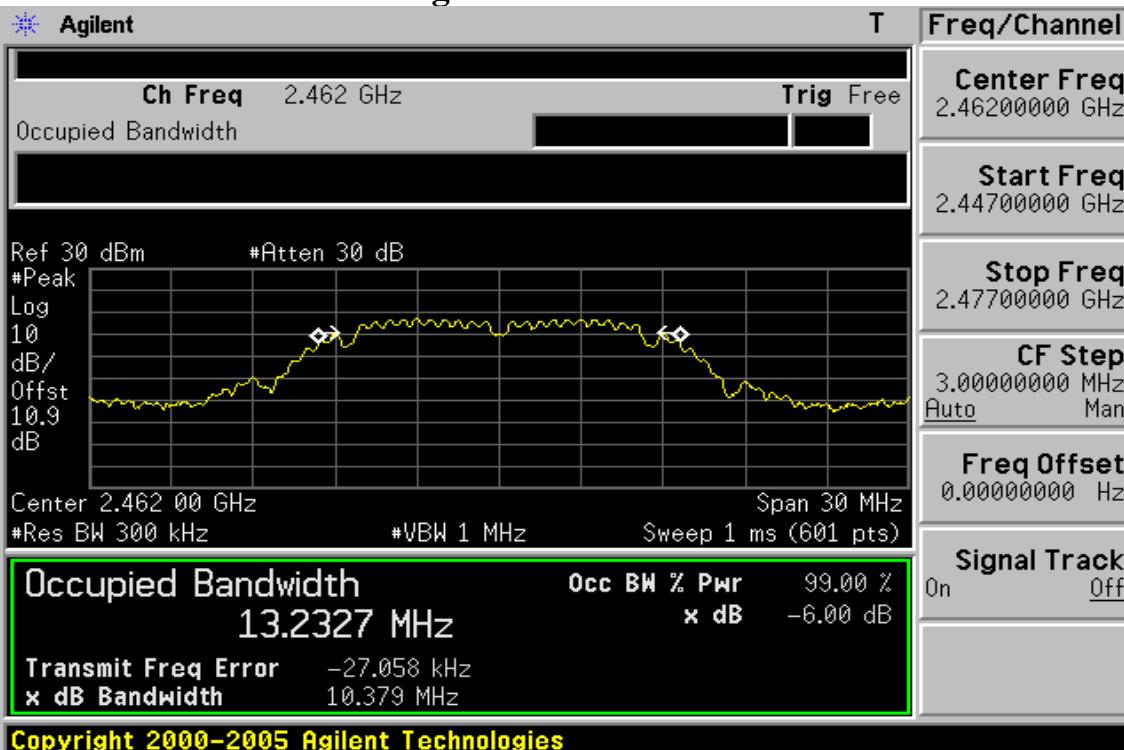


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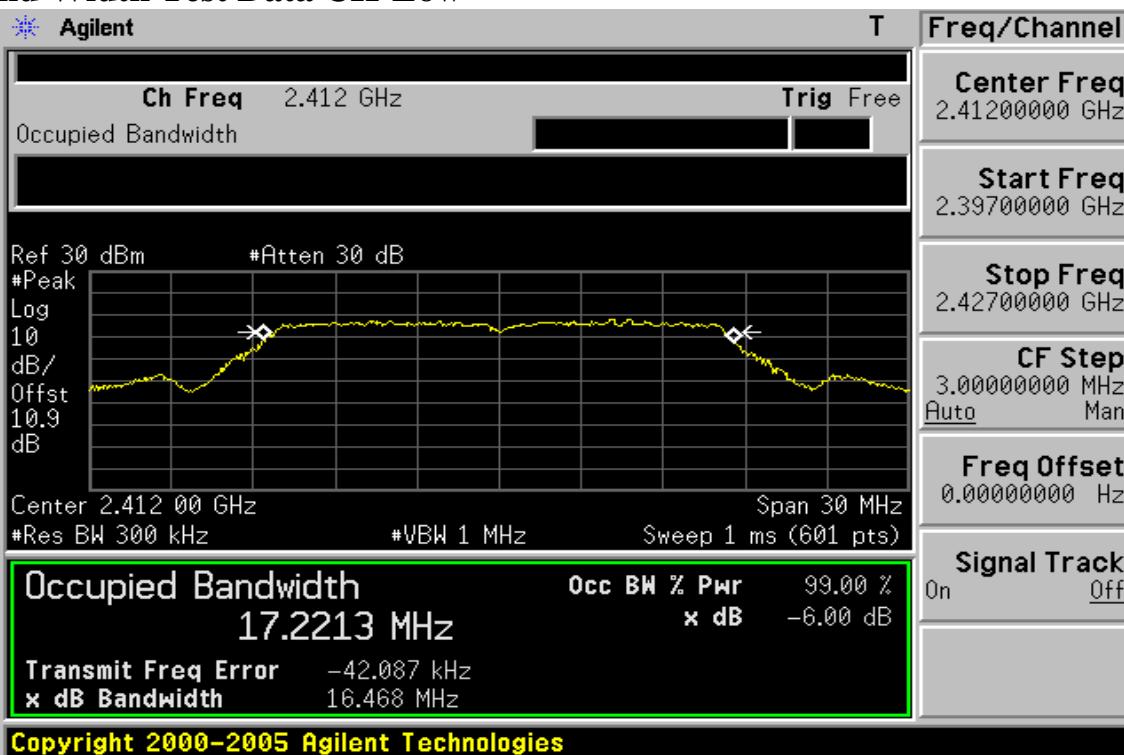
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99% Band Width Test Data CH-High



802.11g

99% Band Width Test Data CH-Low

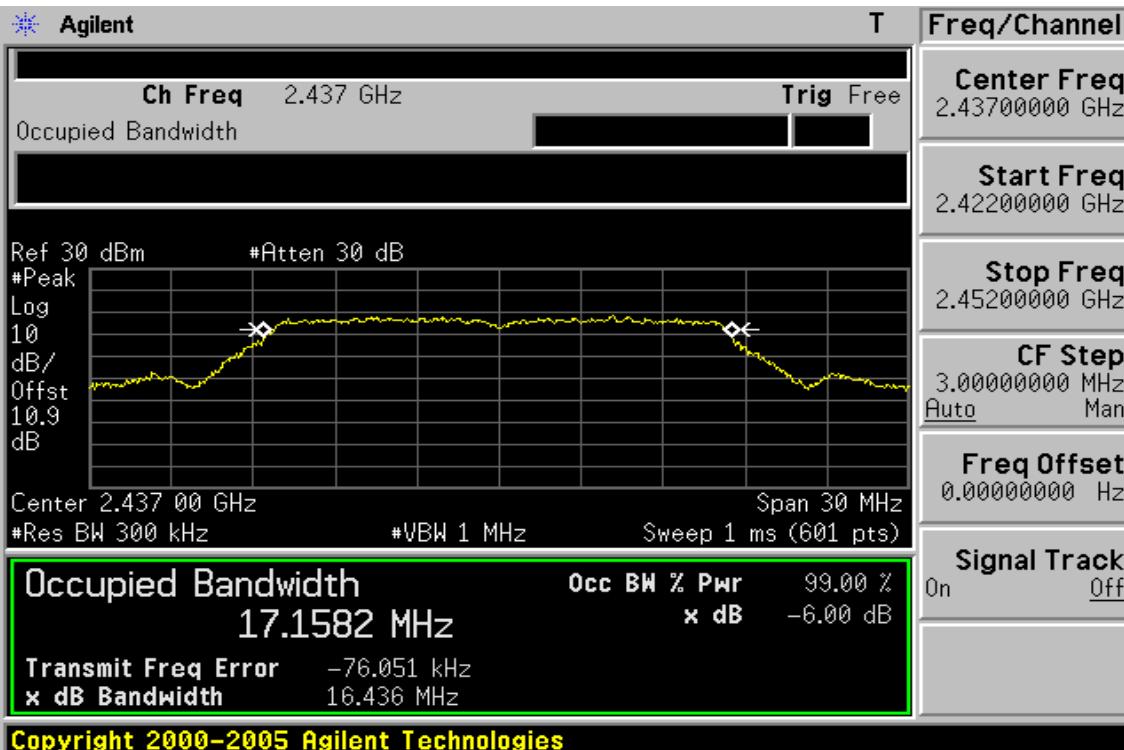


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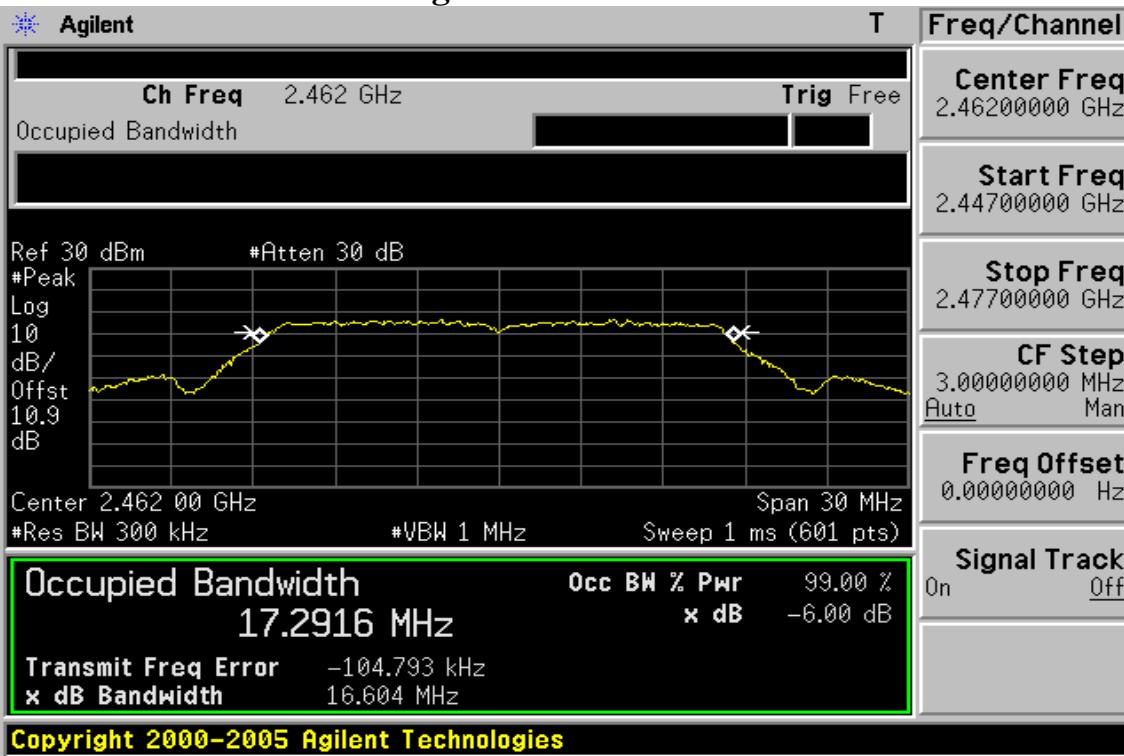
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99% Band Width Test Data CH-Mid

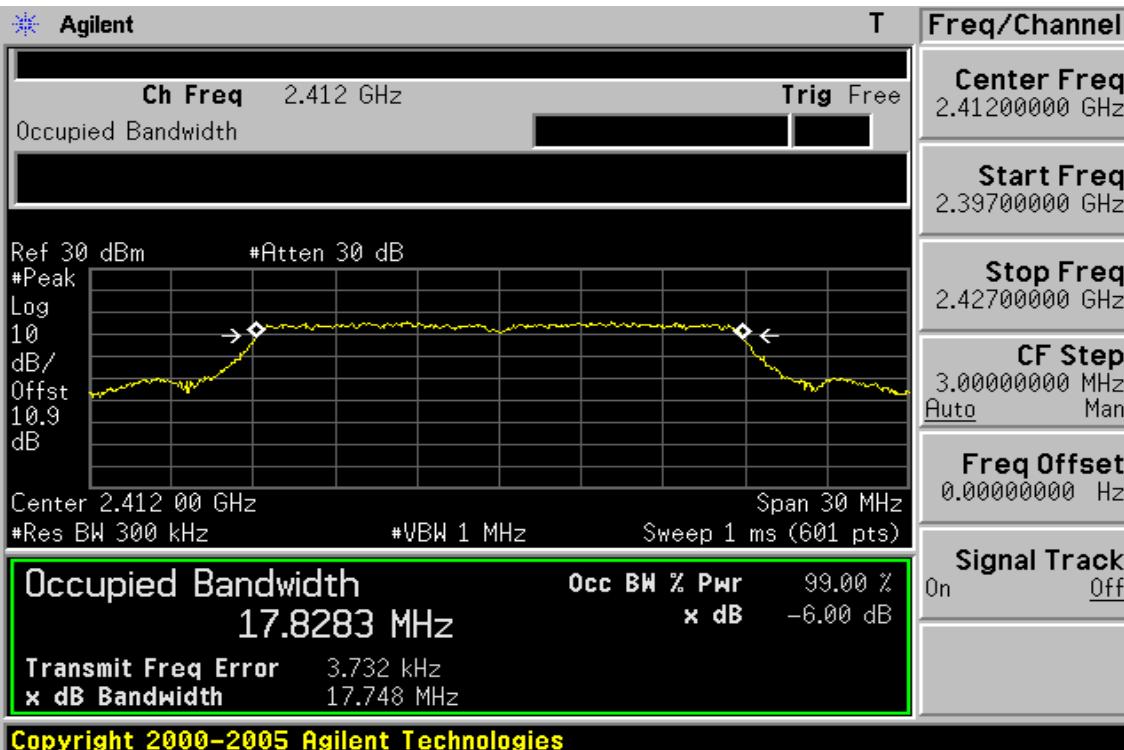
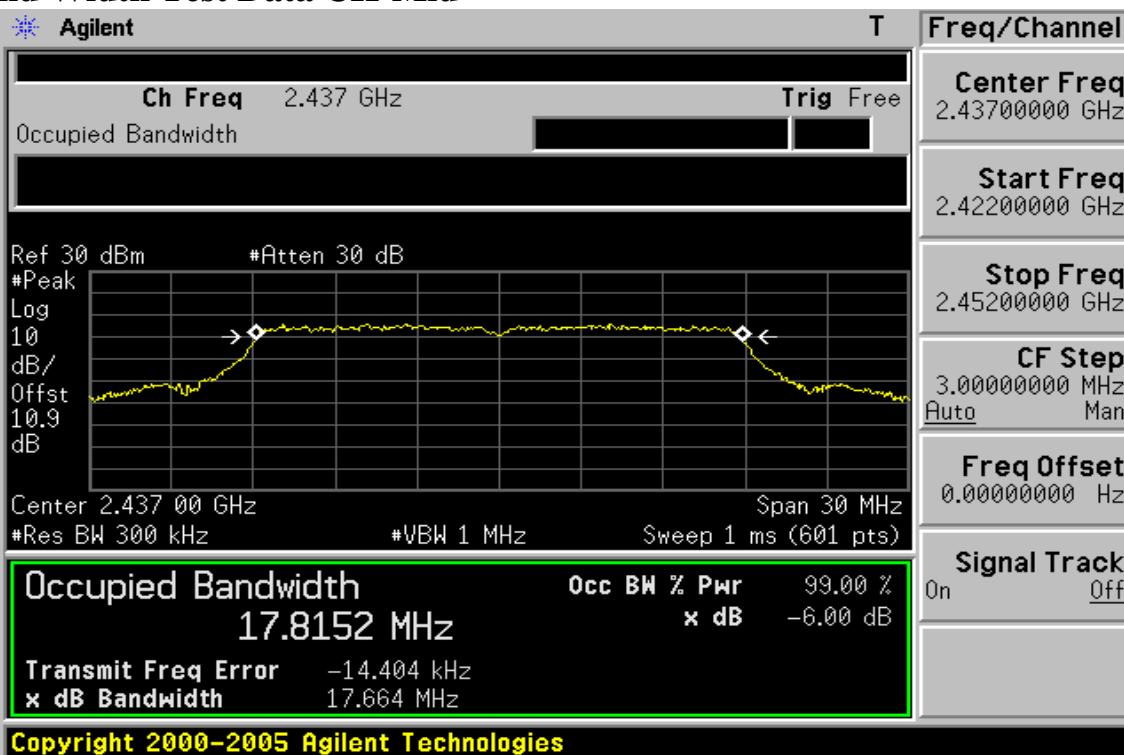


99% Band Width Test Data CH-High



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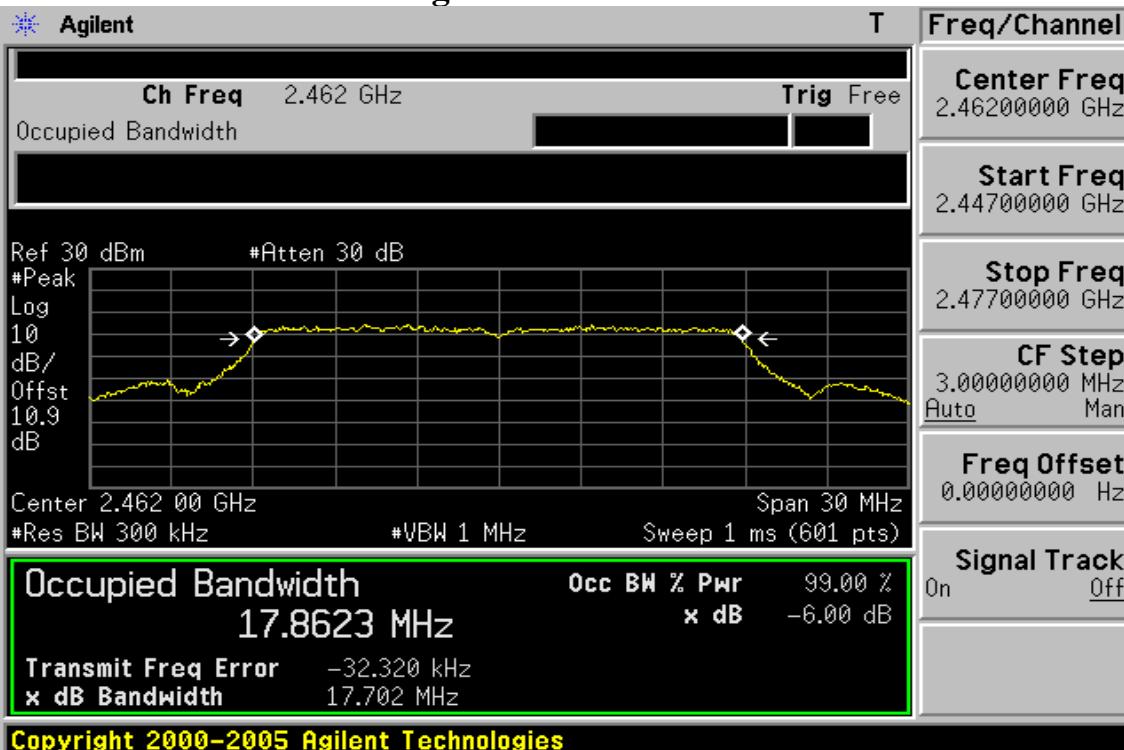
802.11n_20M (2.4GHz)**99% Band Width Test Data CH-Low****99% Band Width Test Data CH-Mid**

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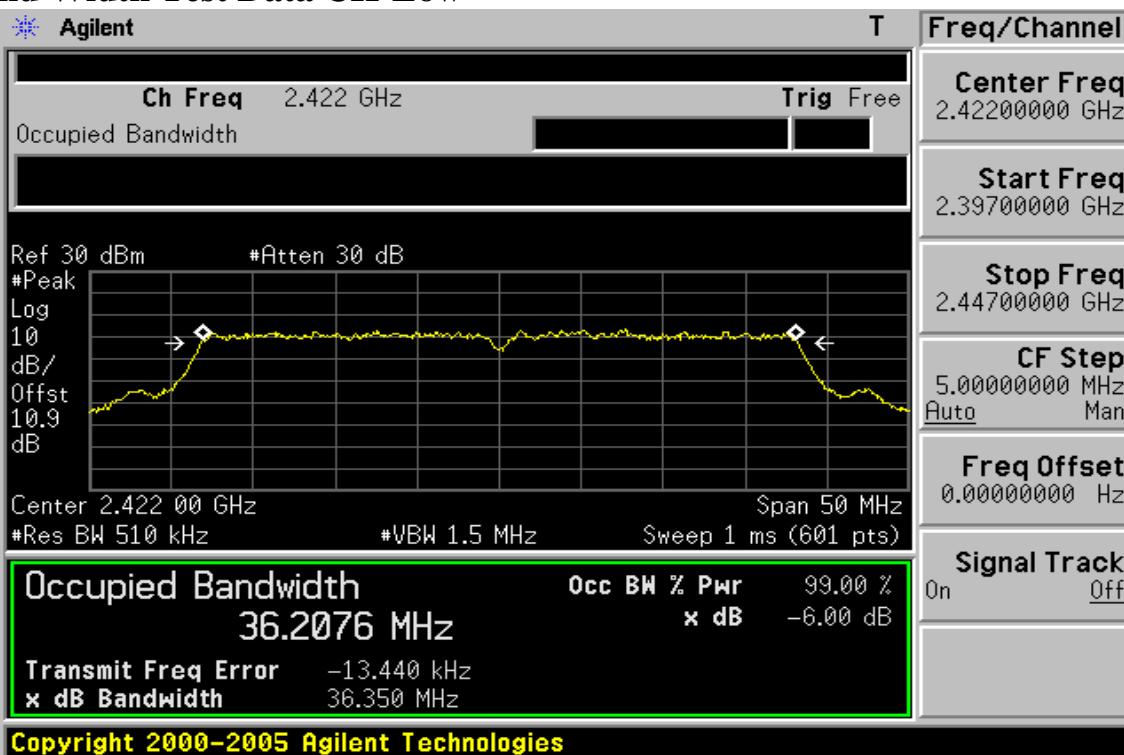
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99% Band Width Test Data CH-High



802.11n_40M (2.4GHz)

99% Band Width Test Data CH-Low

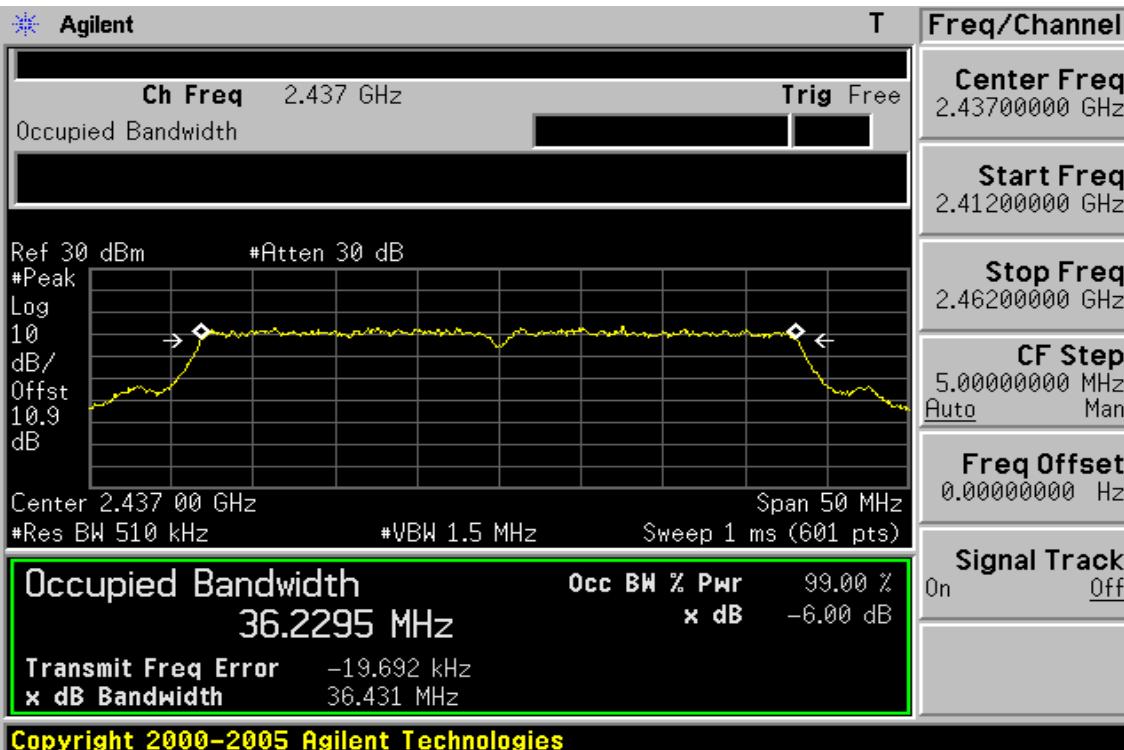


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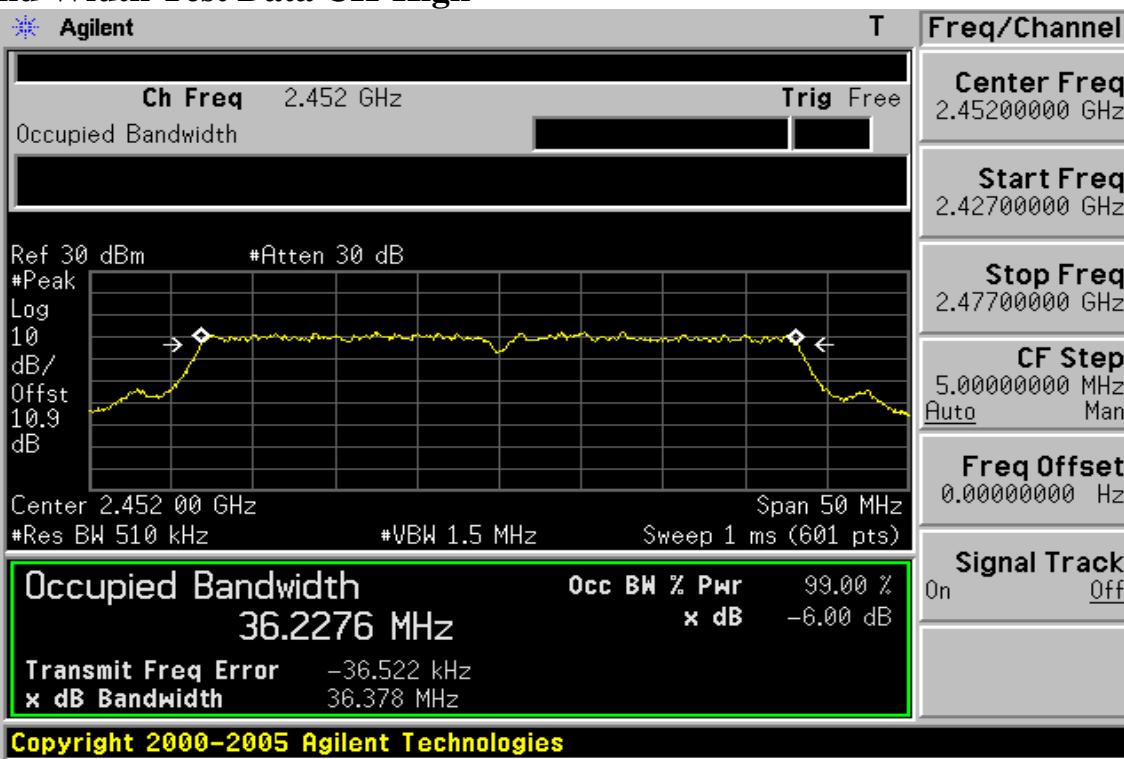
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High

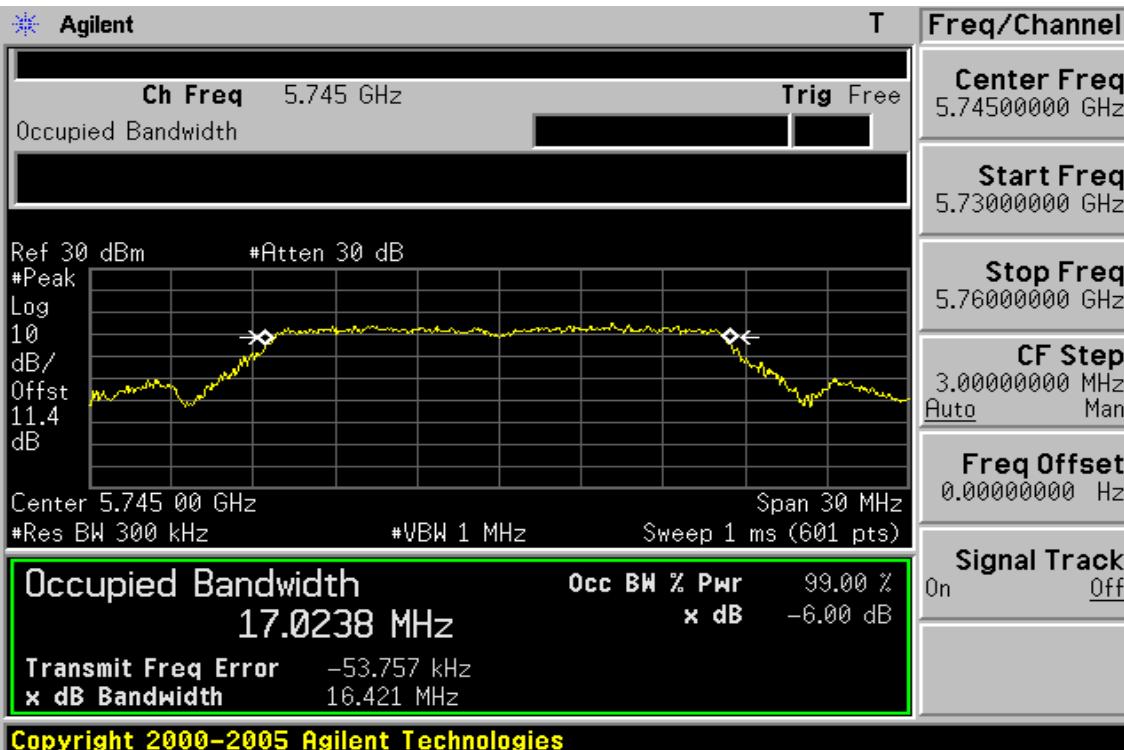


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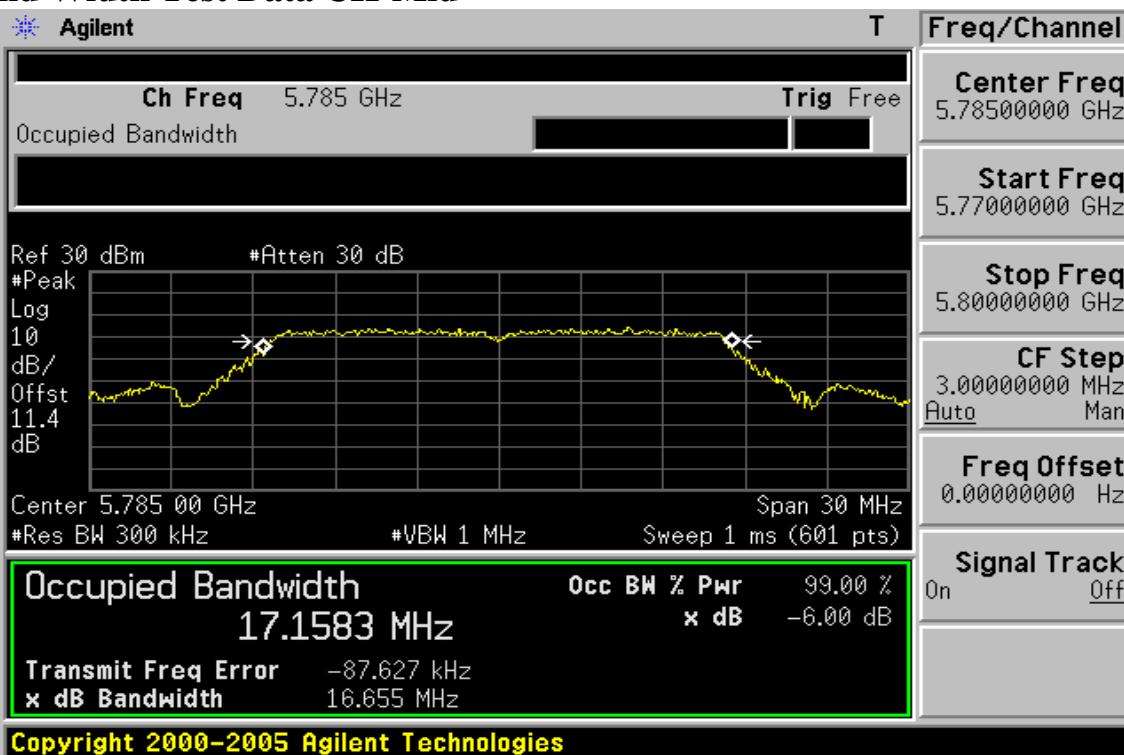
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802.11a

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

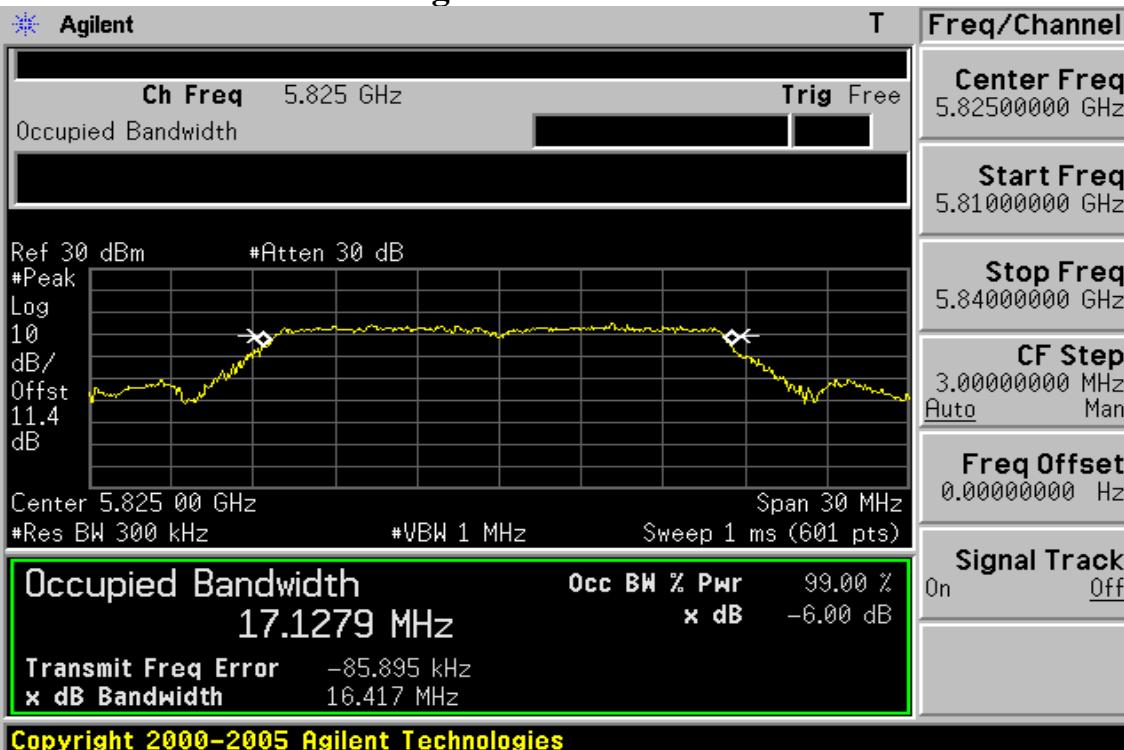


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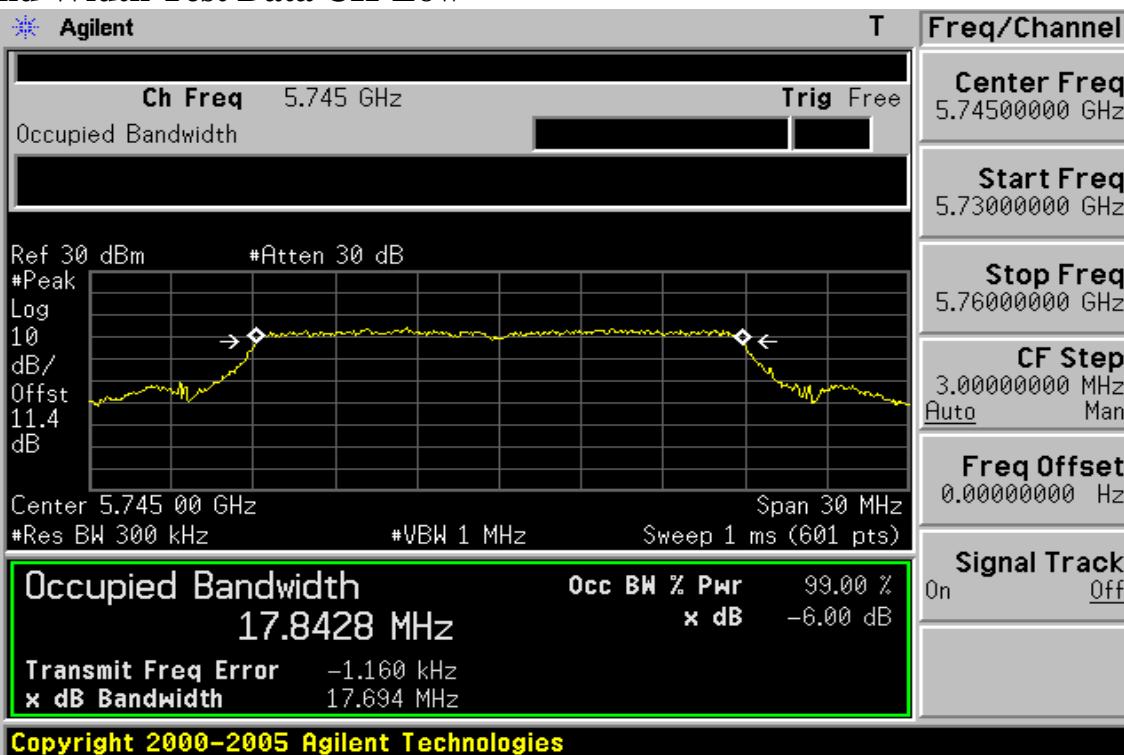
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99% Band Width Test Data CH-High



802.11n_20M (5GHz)

99% Band Width Test Data CH-Low

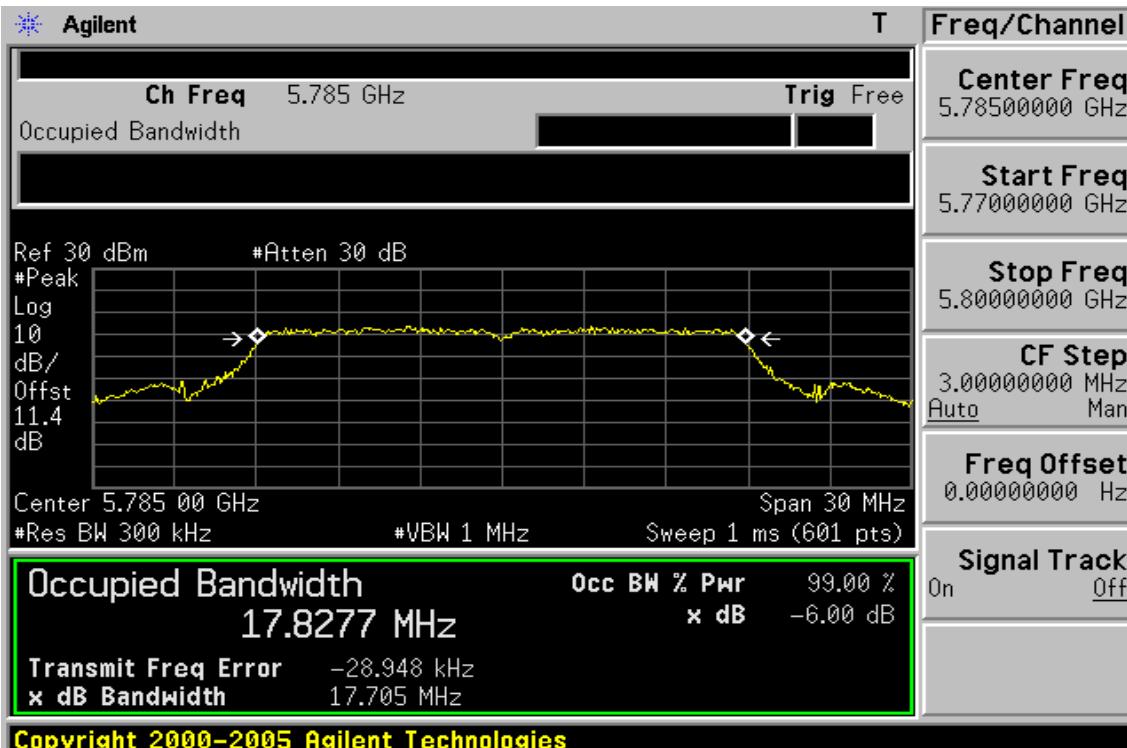


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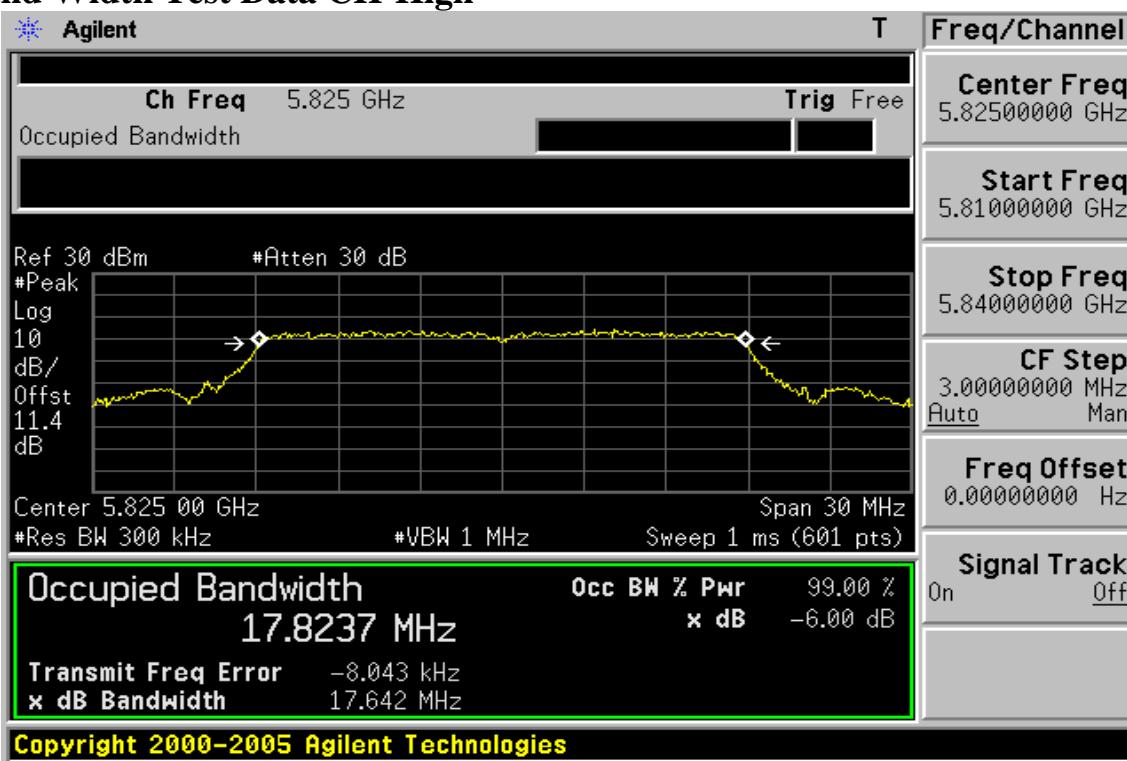
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



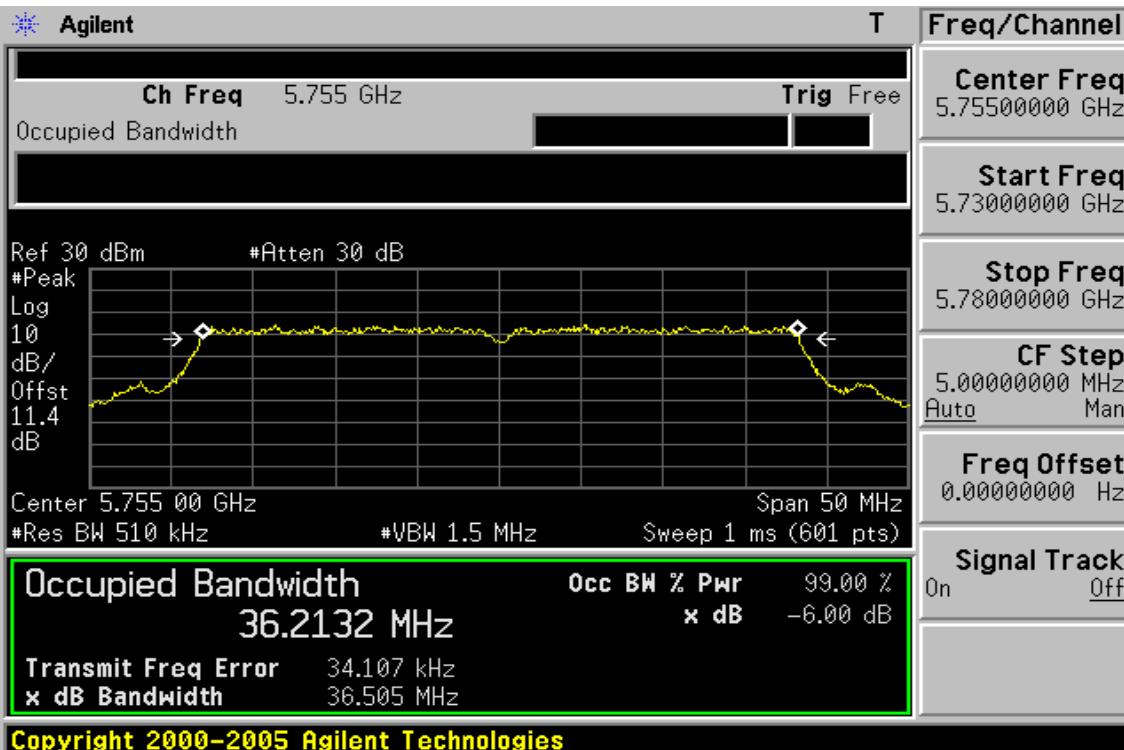
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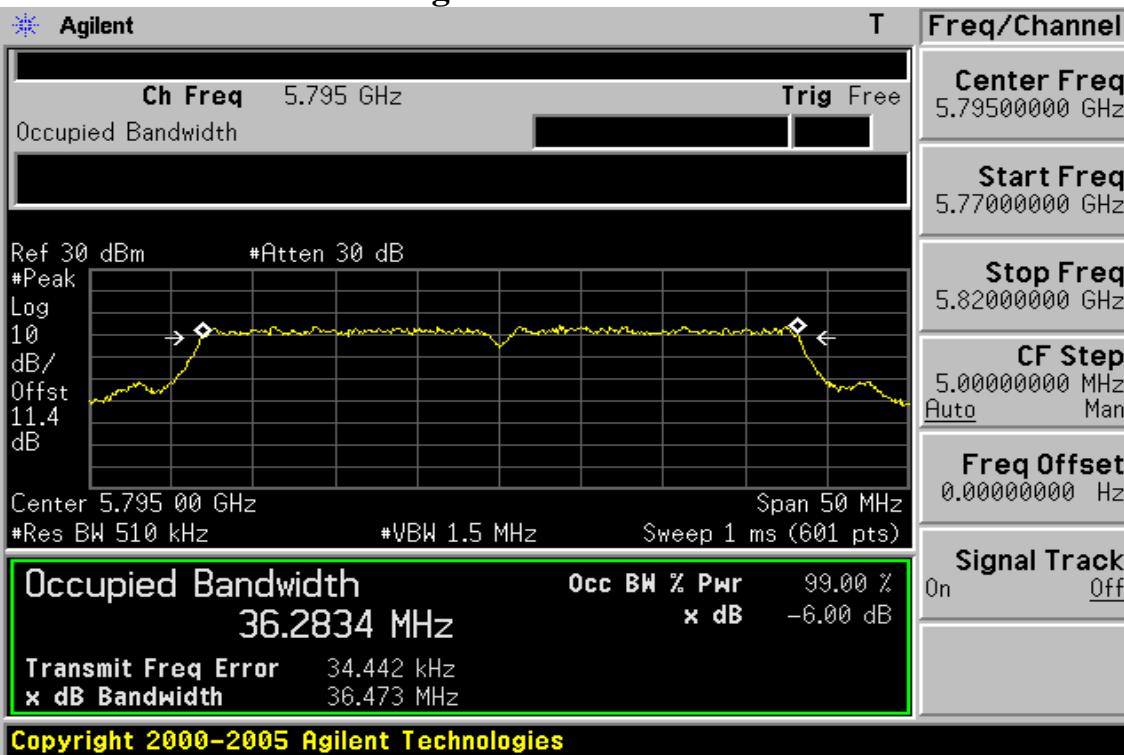
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802.11n_40M (5GHz)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-High



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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

14.1 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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14.2 Maximum Permissible Exposure (MPE) Evaluation

Internal Antenna

802.11b Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.51	0.00	16.51	0.04477	1
2437.00	16.35	0.00	16.35	0.04315	1
2462.00	16.36	0.00	16.36	0.04325	1

MPE Prediction (802.11b)

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:	16.51	(dBm)
Maximum peak output power at antenna input terminal:	44.77133042	(mW)
Duty cycle:	100	(%)
Maximum Pav :	44.77133042	(mW)
Antenna gain (typical):	1.8	(dBi)
Maximum antenna gain:	1.513561248	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.013488	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01349 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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802.11g Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.97	0.00	16.97	0.04977	1
2437.00	16.68	0.00	16.68	0.04656	1
2462.00	15.67	0.00	15.67	0.03690	1

MPE Prediction (802.11g)

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:	16.97	(dBm)
Maximum peak output power at antenna input terminal:	49.7737085	(mW)
Duty cycle:	100	(%)
Maximum Pav :	49.7737085	(mW)
Antenna gain (typical):	1.8	(dBi)
Maximum antenna gain:	1.513561248	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.014995	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01500 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412.

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802.11n_20M (2.4G) MIMO Chain 0+Chain 1Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.08	0.00	15.08	0.03221	1
2437.00	18.16	0.00	18.16	0.06546	1
2462.00	15.13	0.00	15.13	0.03258	1

MPE Prediction (802.11n_20M (2.4G))

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:	18.16	(dBm)
Maximum peak output power at antenna input terminal:	65.46361741	(mW)
Duty cycle:	100	(%)
Maximum Pav :	65.46361741	(mW)
Antenna gain (typical):	4.8	(dBi)
Maximum antenna gain:	3.01995172	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.039351	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.03935 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11n_40M (2.4G) MIMO Chain 0+Chain 1Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2422.00	13.20	0.00	13.20	0.02089	1
2437.00	13.72	0.00	13.72	0.02355	1
2452.00	12.91	0.00	12.91	0.01954	1

MPE Prediction (802.11n_40M (2.4G))

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:	13.72	(dBm)
Maximum peak output power at antenna input terminal:	23.55049284	(mW)
Duty cycle:	100	(%)
Maximum Pav :	23.55049284	(mW)
Antenna gain (typical):	4.8	(dBi)
Maximum antenna gain:	3.01995172	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.014156	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01416 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11a Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	14.20	0.00	14.20	0.02630	1
5785.00	13.98	0.00	13.98	0.02500	1
5825.00	14.52	0.00	14.52	0.02831	1

MPE Prediction (802.11a)

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:	14.52	(dBm)
Maximum peak output power at antenna input terminal:	28.31391996	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.31391996	(mW)
Antenna gain (typical):	4.97	(dBi)
Maximum antenna gain:	3.140508694	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017699	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01770 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_20M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.87	0.00	16.87	0.04864	1
5785.00	17.02	0.00	17.02	0.05035	1
5825.00	17.08	0.00	17.08	0.05105	1

MPE Prediction (802.11a)

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:	17.08	(dBm)
Maximum peak output power at antenna input terminal:	51.0505	(mW)
Duty cycle:	100	(%)
Maximum Pav :	51.0505	(mW)
Antenna gain (typical):	6.82	(dBi)
Maximum antenna gain:	4.808393484	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.048860	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.04886 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_40M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5755.00	15.56	0.00	15.56	0.03597	1
5795.00	15.62	0.00	15.62	0.03648	1

MPE Prediction (802.11a)

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:	15.62	(dBm)
Maximum peak output power at antenna input terminal:	36.47539469	(mW)
Duty cycle:	100	(%)
Maximum Pav:	36.47539469	(mW)
Antenna gain (typical):	6.82	(dBi)
Maximum antenna gain:	4.808393484	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5795	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.034910	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.03491 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5795.

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External Antenna

802.11b Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.51	0.00	16.51	0.04477	1
2437.00	16.35	0.00	16.35	0.04315	1
2462.00	16.36	0.00	16.36	0.04325	1

MPE Prediction (802.11b)

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:	16.51	(dBm)
Maximum peak output power at antenna input terminal:	44.77133042	(mW)
Duty cycle:	100	(%)
Maximum Pav :	44.77133042	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017699	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.00177 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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802.11g Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.97	0.00	16.97	0.04977	1
2437.00	16.68	0.00	16.68	0.04656	1
2462.00	15.67	0.00	15.67	0.03690	1

MPE Prediction (802.11g)

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:	16.97	(dBm)
Maximum peak output power at antenna input terminal:	49.7737085	(mW)
Duty cycle:	100	(%)
Maximum Pav :	49.7737085	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.019677	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01968mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2412.

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802.11n_20M (2.4G) MIMO Chain 0+Chain 1Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.08	0.00	15.08	0.03221	1
2437.00	18.16	0.00	18.16	0.06546	1
2462.00	15.13	0.00	15.13	0.03258	1

MPE Prediction (802.11n_20M (2.4G))

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:	18.16	(dBm)
Maximum peak output power at antenna input terminal:	65.46361741	(mW)
Duty cycle:	100	(%)
Maximum Pav :	65.46361741	(mW)
Antenna gain (typical):	5.98	(dBi)
Maximum antenna gain:	3.962780343	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.051636	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.05164 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11n_40M (2.4G) MIMO Chain 0+Chain 1Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2422.00	13.20	0.00	13.20	0.02089	1
2437.00	13.72	0.00	13.72	0.02355	1
2452.00	12.91	0.00	12.91	0.01954	1

MPE Prediction (802.11n_40M (2.4G))

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:	13.72	(dBm)
Maximum peak output power at antenna input terminal:	23.55049284	(mW)
Duty cycle:	100	(%)
Maximum Pav :	23.55049284	(mW)
Antenna gain (typical):	5.98	(dBi)
Maximum antenna gain:	3.962780343	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.018576	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01858 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 2437.

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802.11a Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	14.20	0.00	14.20	0.02630	1
5785.00	13.98	0.00	13.98	0.02500	1
5825.00	14.52	0.00	14.52	0.02831	1

MPE Prediction (802.11a)

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:	14.52	(dBm)
Maximum peak output power at antenna input terminal:	28.31391996	(mW)
Duty cycle:	100	(%)
Maximum Pav :	28.31391996	(mW)
Antenna gain (typical):	4.85	(dBi)
Maximum antenna gain:	3.054921113	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.017217	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01722 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_20M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.87	0.00	16.87	0.04864	1
5785.00	17.02	0.00	17.02	0.05035	1
5825.00	17.08	0.00	17.08	0.05105	1

MPE Prediction (802.11a)

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:	17.08	(dBm)
Maximum peak output power at antenna input terminal:	51.0505	(mW)
Duty cycle:	100	(%)
Maximum Pav :	51.0505	(mW)
Antenna gain (typical):	7.85	(dBi)
Maximum antenna gain:	6.095368972	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5825	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.061937	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.06194 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5825.

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802.11n_40M (5GHz) MIMO Chain 0+ Chain1 Power Table

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5755.00	15.56	0.00	15.56	0.03597	1
5795.00	15.62	0.00	15.62	0.03648	1

MPE Prediction (802.11a)

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:	15.62	(dBm)
Maximum peak output power at antenna input terminal:	36.47539469	(mW)
Duty cycle:	100	(%)
Maximum Pav:	36.47539469	(mW)
Antenna gain (typical):	7.85	(dBi)
Maximum antenna gain:	6.095368972	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5795	(MHz)
MPE limit for uncontrolled exposure at prediction:	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.044254	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.04425 mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5795.

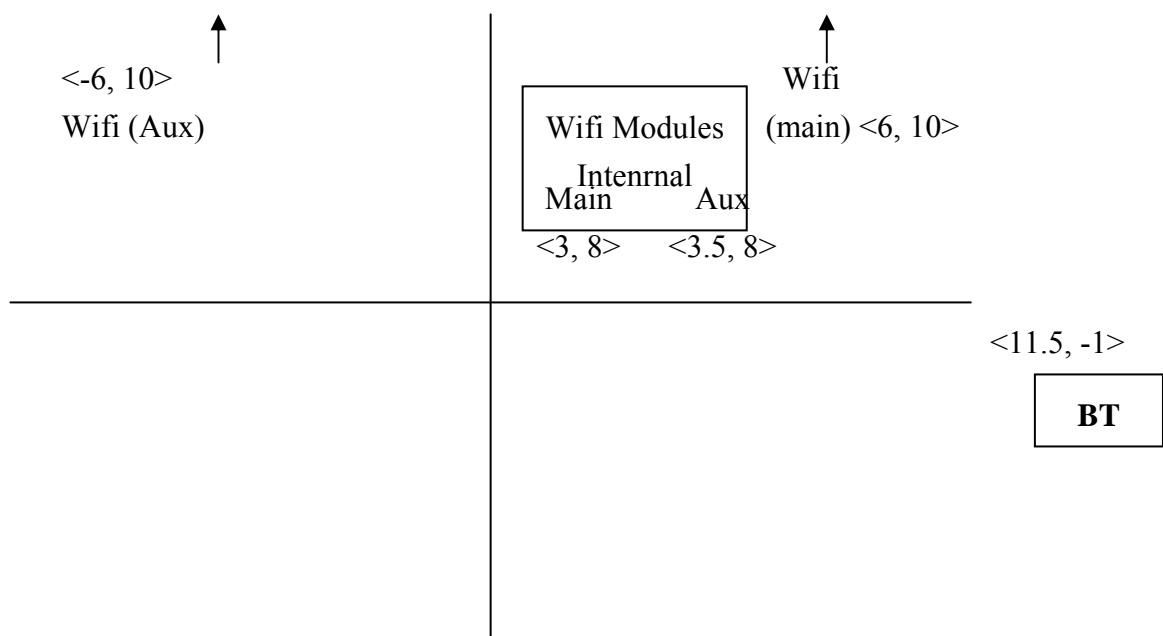
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Collocated MPE analysis:

As per KDB447498 D01, if the radio application is composed of the multiple transmitters confining in the host plateform, and placing nearby, the simultaneous transmission due to impact of accumulation of individual MPE shall be evaluated if or not given application could conditionally qualify for MPE test exclusion.

Location of the transmitting antennas where they distribute:



Scenario of operation when simultaneous transmission occurs:

Scenario 1:

External Antenna:

Wifi b or g + Bluetooth

Scenario 2:

External Antenna:

Wifi n_MIMO + Bluetooth

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Scenario 3:

External Antenna:

Wifi a + Bluetooth

Scenario 4:

External Antenna:

Wifi n_5G (MIMO) + Bluetooth

Scenario 5:

Internal Antenna:

Wifi b or g + Bluetooth

Scenario 6:

Internal Antenna:

Wifi n_MIMO + Bluetooth

Scenario 7:

Internal Antenna:

Wifi a + Bluetooth

Scenario 8:

Internal Antenna:

Wifi n_5G_MIMO + Bluetooth

Exclusion of test condition:

Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on calculated or measured field strengths or power density, is ≤ 1.0 .

$\Sigma MPE ratio1 + MPE ratio2 + MPE ratio3 \leq 1.0$

The spreadsheet as FCC deduces, and releases is employed to conduct the measurement:

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Scenario 1:
 External Antenna:
 Wifi b or g + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		2412	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	1.8	0.9	0.0
Power	(W)	0.042	0.024	0.002
Antenna Gain	dBi		2.98	1.20
EIRP	(W)	0.10	0.048	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 1.8/100 = 0.018 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 2:
 External Antenna:
 Wifi n_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2437	2402	2437
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	1.2	0.6	0.0	0.6
Power	(W)	0.031	0.015	0.002	0.014
Antenna Gain	dBi		2.98	1.20	2.98
EIRP	(W)	0.06	0.030	0.002	0.028
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 1.2/100 = 0.012 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 3:
 External Antenna:
 Wifi a + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		5260	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	1.1	1.1	0.0
Power	(W)	0.020	0.018	0.002
Antenna Gain	dBi		4.85	1.20
EIRP	(W)	0.06	0.055	0.002
X	(cm)		6.0	11.5
Y	(cm)		10.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 1.1/100 = 0.011 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 4:
 External Antenna:
 Wifi n_MIMO 5G + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5260	2402	5260
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	1.9	1.1	0.0	1.0
Power	(W)	0.036	0.018	0.002	0.016
Antenna Gain	dBi		4.85	1.20	4.85
EIRP	(W)	0.11	0.055	0.002	0.049
X	(cm)		6.0	11.5	-6.0
Y	(cm)		10.0	-1.0	10.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 1.9/100 = 0.019 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 5:

Internal Antenna:

Wifi b or g + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		2412	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	0.7	0.7	0.0
Power	(W)	0.026	0.024	0.002
Antenna Gain	dBi		1.80	1.20
EIRP	(W)	0.04	0.036	0.002
X	(cm)		3.0	11.5
Y	(cm)		8.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 0.7/100 = 0.007 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 6:

Internal Antenna:

Wifi n_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		2412	2402	2412
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	2.7	1.0	0.0	1.9
Power	(W)	0.067	0.033	0.002	0.032
Antenna Gain	dBi		1.80	1.20	4.85
EIRP	(W)	0.15	0.050	0.002	0.098
X	(cm)		3.0	11.5	3.5
Y	(cm)		8.0	-1.0	8.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 2.7/100 = 0.027 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 7:

Internal Antenna:
Wifi a + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		5260	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	0.6	0.5	0.0
Power	(W)	0.020	0.018	0.002
Antenna Gain	dBi		1.80	1.20
EIRP	(W)	0.03	0.027	0.002
X	(cm)		3.0	11.5
Y	(cm)		8.0	-1.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ ₁	degs	input	-120	-120
θ ₂			60	60
θ ₁		actual	-120	-120
θ ₂			60	60

MPE = 0.6 /100 = 0.006 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 8:

Internal Antenna:
Wifi n_5G_MIMO + Bluetooth

Antenna No.		Total	1	2	3
Tx Status			On	On	On
Frequency	MHz		5260	2402	5260
MPE Limit	mW/cm ²		1.00	1.00	1.00
Max % MPE	%	2.0	1.1	0.0	1.0
Power	(W)	0.036	0.018	0.002	0.016
Antenna Gain	dBi		4.97	1.20	4.97
EIRP	(W)	0.11	0.057	0.002	0.050
X	(cm)		3.0	11.5	3.5
Y	(cm)		8.0	-1.0	8.0
Sector			FALSE	FALSE	FALSE
Arc			FALSE	FALSE	FALSE
θ ₁	degs	input	-120	-120	-120
θ ₂			60	60	60
θ ₁		actual	-120	-120	-120
θ ₂			60	60	60

MPE = 2/100 = 0.02 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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