

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.: VM2C
Model Difference: N/A
FCC ID: KDZVM2C01
IC: 1693B-VM2C01
Report No.: EH/2012/A0023
Issue Date: Jan. 21, 2013
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
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SGS Taiwan Ltd.
Electronics & Communication Laboratory
Prepared by: No.134, Wu Kung Road, New Taipei Industrial
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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

Model No.: VM2C

Model Difference: N/A

FCC ID: KDZVM2C01

IC: 1693B-VM2C01

File Number: EH/2012/A0023

Date of test: Oct. 05, 2012 ~ Jan. 11, 2013

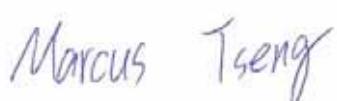
Date of EUT Received: Oct. 05, 2012

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

Jan. 21, 2013

Marcus Tseng / Engineer

Prepared By:

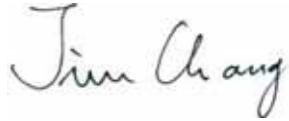


Date

Jan. 21, 2013

Violetta Tang / Clerk

Approved By:



Date

Jan. 21, 2013

Jim Chang / Supervisor

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Report No.: EH/2012/A0023

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Version

Version No.	Date	Description
00	Jan. 21, 2013	Initial creation of document

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1 GENERAL INFORMATION

General:

Product Name:	Vehicle Mount Terminal		
Brand Name:	Honeywell		
Marketing Name:	Thor VM2		
Model No.:	VM2C		
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:

Wi-Fi	Frequency Range	Channels	Rated Power(Peak)	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b: 19.70dBm g: 18.52dBm	DSSS/ OFDM	b: 15M7G1D g: 17M2D1D
11a	5725-5850	5	a: 18.58dBm	OFDM	a: 17M0D1D
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 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 a: 6/9/12/18/24/36/48/54 Mbps			

The EUT is compliance with IEEE 802.11 a/b/g 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: KDZVM2C01** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules. And **IC: 1693B-VM2C01** filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 8. The composite system (digital device) is compliance with Subpart B is authorized under a Doc procedure.

1.2 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4: 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 Numbers are: 990257 and 236194, Canada Registration Number: 4620A-4.

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

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 7.3.1 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 placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 of ANSI C63.4-2009.

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2.4 Configuration of Tested System

Fig. 2-1 Conducted / Radiated Emission Configuration



Table 2-1 Equipment Used in Tested System

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

3 SUMMARY OF TEST RESULTS

FCC & 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 §A8.4(4)	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(d) RSS-210 §A8.4(4)	Spurious Emission	Compliant
§15.247(e) RSS-210 §A8.2(b)	Peak Power Density	Compliant
§15.203 RSS-GEN §7.1.2,	Antenna Requirement	Compliant
RSS-Gen §4.6.1	99% Power Bandwidth	Compliant

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4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

802.11 b mode: Channel low (2412MHz)、mid (2437MHz) and high (2462MHz) with 11Mbps 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 a mode: Channel low (5745MHz)、mid (5785MHz) and high (5825MHz) with 6Mbps highest data rate are chosen for full testing.

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

Pre-scanned was done on internal antenna: 40120512 and external antenna: WTS 2450 and R380500314, and external antenna WTS 2450 results higher emission at 2.4GHz. Moreover, internal antenna 40120512 results higher emission at 5GHz. Therefore, the completed set of measurement was done on external antenna WTS 2450 (2.4GHz) and internal antenna 40120512 (5GHz), to be presented on this test report.

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 - 180MHz: 3.37dB
	180MHz -417MHz: 3.19dB
	0.417GHz-1GHz: 3.19dB
	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 150 KHz 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	01/05/2013	01/04/2014

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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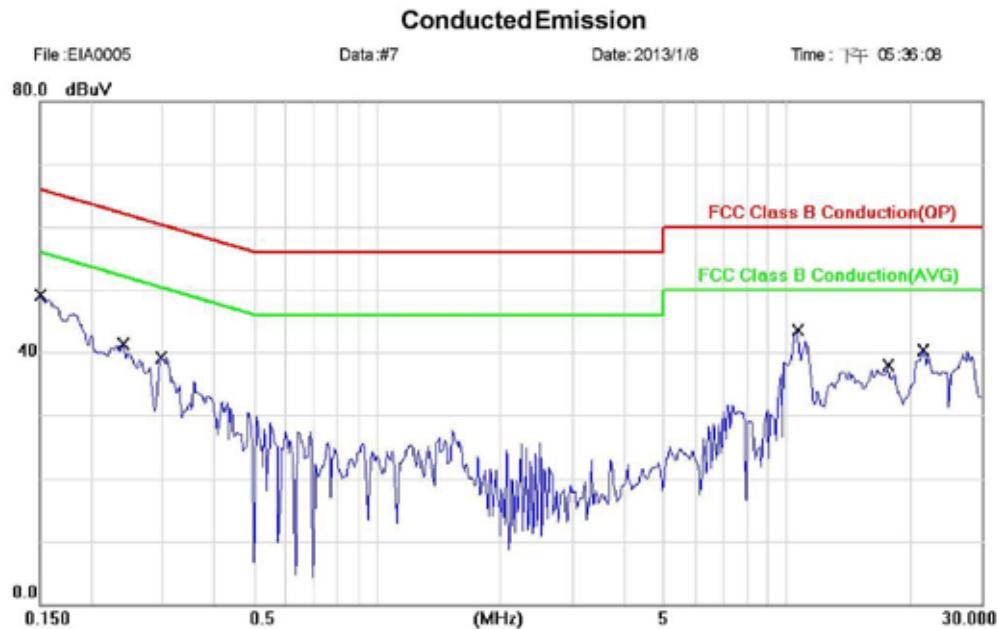
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode	Test Date:	Jan. 08, 2013
Temperature:	26	Humidity:	60 %

Site: ConductionRoom
 Phase: **L1**
 Temperature: 26 °C
 Limit: FCC Class B Conduction(QP)
 Power: AC 120V/60Hz
 Humidity: 60%
 EUT: Vehicle Mount Terminal
 Distance:
 M/N: VM2C
 Mode:
 Note: operationmode



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	0.1524	48.21	0.25	48.46	65.87	-17.41	QP		
2	0.2400	41.18	0.22	41.40	62.10	-20.70	QP		
3	0.2986	38.93	0.23	39.16	60.28	-21.12	QP		
4 *	10.6304	43.08	0.46	43.54	60.00	-16.46	QP		
5	17.8365	37.11	0.78	37.89	60.00	-22.11	QP		
6	21.6253	39.27	0.94	40.21	60.00	-19.79	QP		

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Site: ConductionRoom
Limit: FCC Class B Conduction(QP)
EUT: Vehicle Mount Terminal
MN: VM2C
Note: operationmode

Phase: **N**
Power: AC 120V/60Hz
Distance:
Mode:

Temperature: 28 °C
Humidity: 60%

Conducted Emission

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	0.1578	48.49	0.35	48.84	65.58	-16.74	QP	
2		0.2438	41.36	0.32	41.68	61.97	-20.29	QP	
3		0.4315	34.82	0.35	35.17	57.22	-22.05	QP	
4		10.6343	42.64	0.48	43.12	60.00	-16.88	QP	
5		15.4475	36.06	0.64	36.70	60.00	-23.30	QP	
6		26.6340	37.95	0.91	38.86	60.00	-21.14	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 6dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6dBi 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 6dBi.

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

(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 6dBi 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 6dBi.

(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 6dBi without any corresponding reduction in transmitter conducted output power.

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

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

7.2 Measurement Equipment Used:

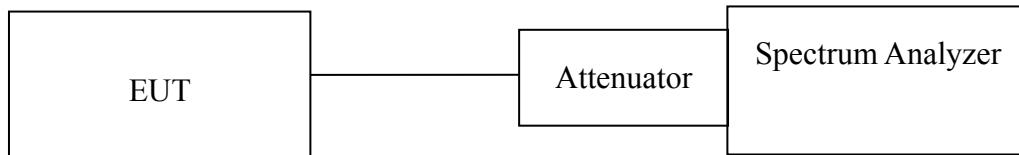
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Sensor	Anritsu	ML2495A	1005007	02/08/2012	02/07/2014
Power Meter	Anritsu	MA2411B	917032	02/08/2012	02/07/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2011	04/14/2013
Spectrum Analyzer	Agilent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

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7.3 Test Set-up:



7.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. **(Peak power setting:** Channel power function, RBW = 1MHz, VBW = 3MHz, Span: 30/60MHz, Detector =peak, Sweep = Auto
Avg. power setting: Channel power function, RBW = 1MHz, VBW = 3MHz, Span:30/60MHz, Detector =Avg., Trace avg.=100, Sweep = Auto)
3. Record the max. reading.
4. Repeat above procedures until all frequency measured were complete.

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7.5 Measurement Result:

802.11b

Cable loss = 0		Peak Power Output (dBm)				Required Limit	
CH	Frequency (MHz)	Data Rate					
		1	2	5.5	11		
1	2412	18.83	18.74	18.65	18.47	1 Watt = 30 dBm	
6	2437	19.70	19.60	19.49	19.39	1 Watt = 30 dBm	
11	2462	18.64	18.59	18.44	18.29	1 Watt = 30 dBm	

Cable loss = 0		Average Power Output (dBm)				Required Limit	
CH	Frequency (MHz)	Data Rate					
		1	2	5.5	11		
1	2412	16.19	16.16	16.14	16.12	1 Watt = 30 dBm	
6	2437	17.14	17.11	17.08	17.06	1 Watt = 30 dBm	
11	2462	16.25	16.22	16.19	16.16	1 Watt = 30 dBm	

802.11g

Cable loss = 0		Peak Power Output (dBm)								Required Limit	
CH	Frequency (MHz)	Data Rate									
		6	9	12	18	24	36	48	54		
1	2412	15.44	15.41	15.39	15.36	15.34	15.31	15.29	15.26	1 Watt = 30 dBm	
6	2437	18.52	18.50	18.49	18.47	18.46	18.44	18.43	18.41	1 Watt = 30 dBm	
11	2462	16.47	16.45	16.43	16.41	16.38	16.36	16.34	16.32	1 Watt = 30 dBm	

Cable loss = 0		Average Power Output(dBm)								Required Limit	
CH	Frequency (MHz)	Data Rate									
		6	9	12	18	24	36	48	54		
1	2412	11.95	11.92	11.88	11.85	11.82	11.79	11.75	11.72	1 Watt = 30 dBm	
6	2437	15.12	15.08	15.05	15.01	14.97	14.93	14.90	14.86	1 Watt = 30 dBm	
11	2462	13.03	13.00	12.96	12.93	12.90	12.87	12.83	12.80	1 Watt = 30 dBm	

*Note: Offset 10.9dB

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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	18.58	18.56	18.55	18.54	18.53	18.52	18.51	18.50	1 Watt = 30 dBm
157	5785	18.18	18.15	18.12	18.09	18.06	18.03	18.00	17.97	1 Watt = 30 dBm
165	5825	18.10	18.08	18.07	18.05	18.04	18.02	18.01	18.00	1 Watt = 30 dBm

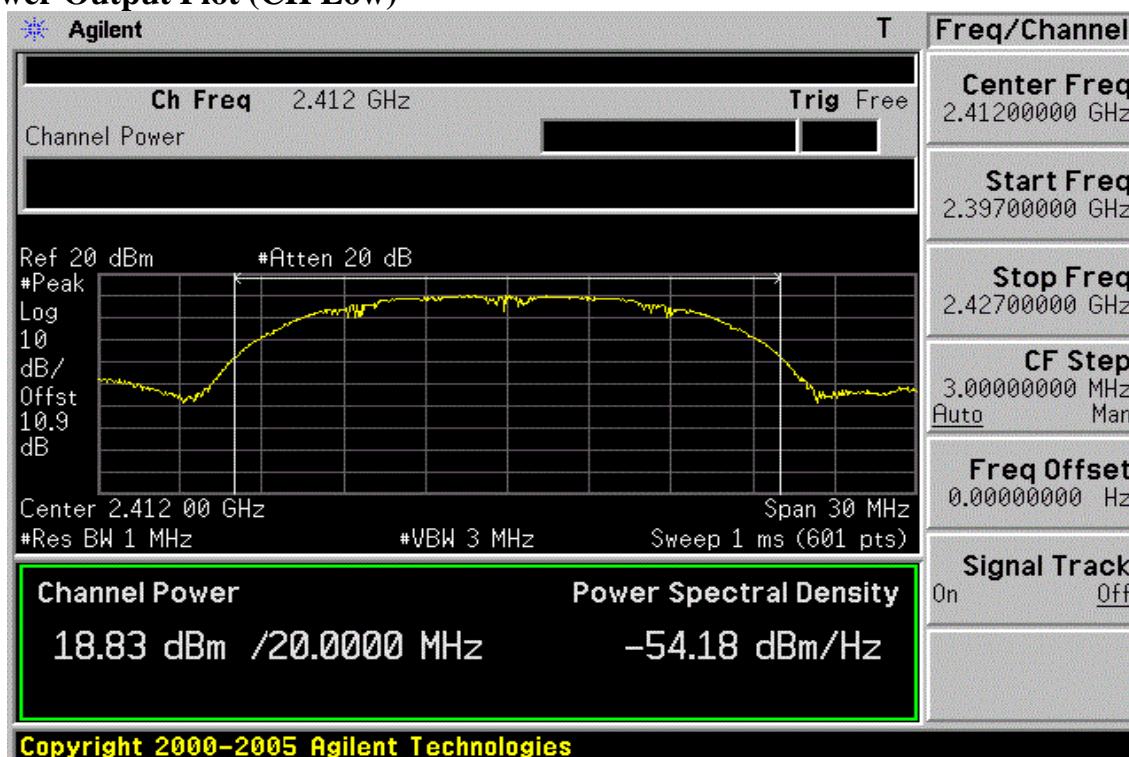
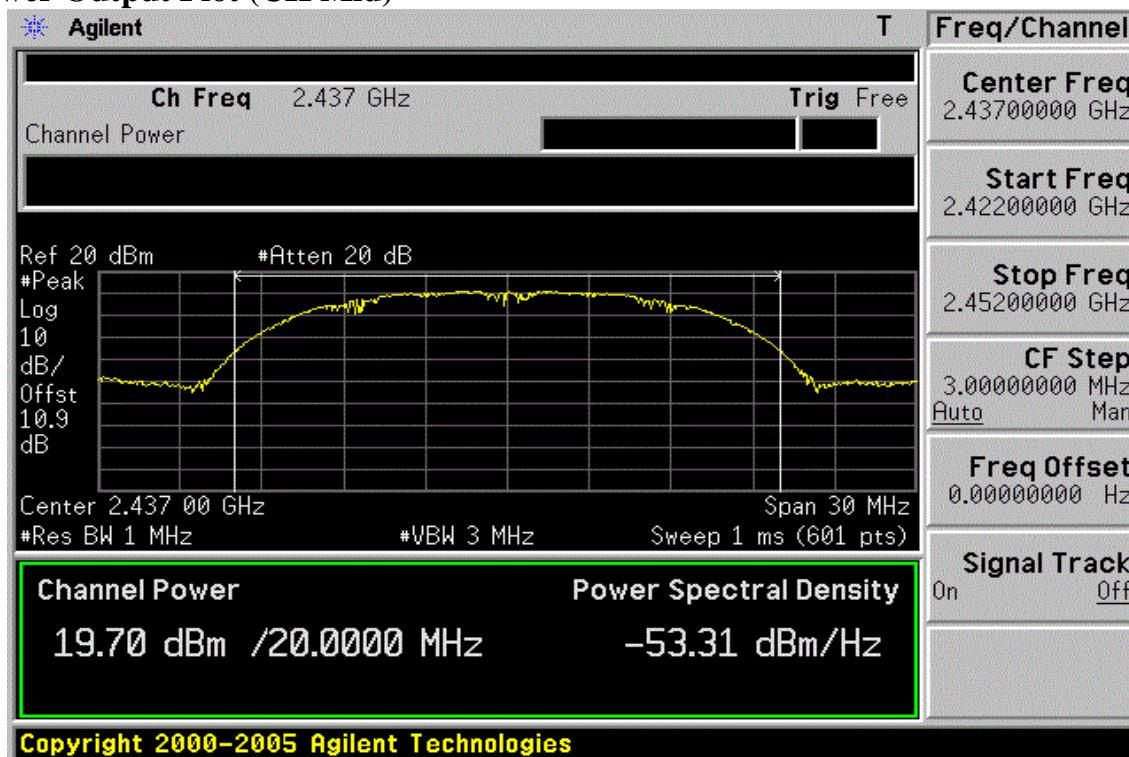
Cable loss = 0		Average Power Output(dBm)								
CH	Frequency (MHz)	Data Rate								Required Limit
		6	9	12	18	24	36	48	54	
149	5745	15.15	15.12	15.09	15.06	15.03	15.00	14.97	14.94	1 Watt = 30 dBm
157	5785	14.68	14.64	14.61	14.58	14.54	14.51	14.48	14.45	1 Watt = 30 dBm
165	5825	14.59	14.57	14.55	14.53	14.52	14.50	14.49	14.47	1 Watt = 30 dBm

*Note: Offset 11.4dB

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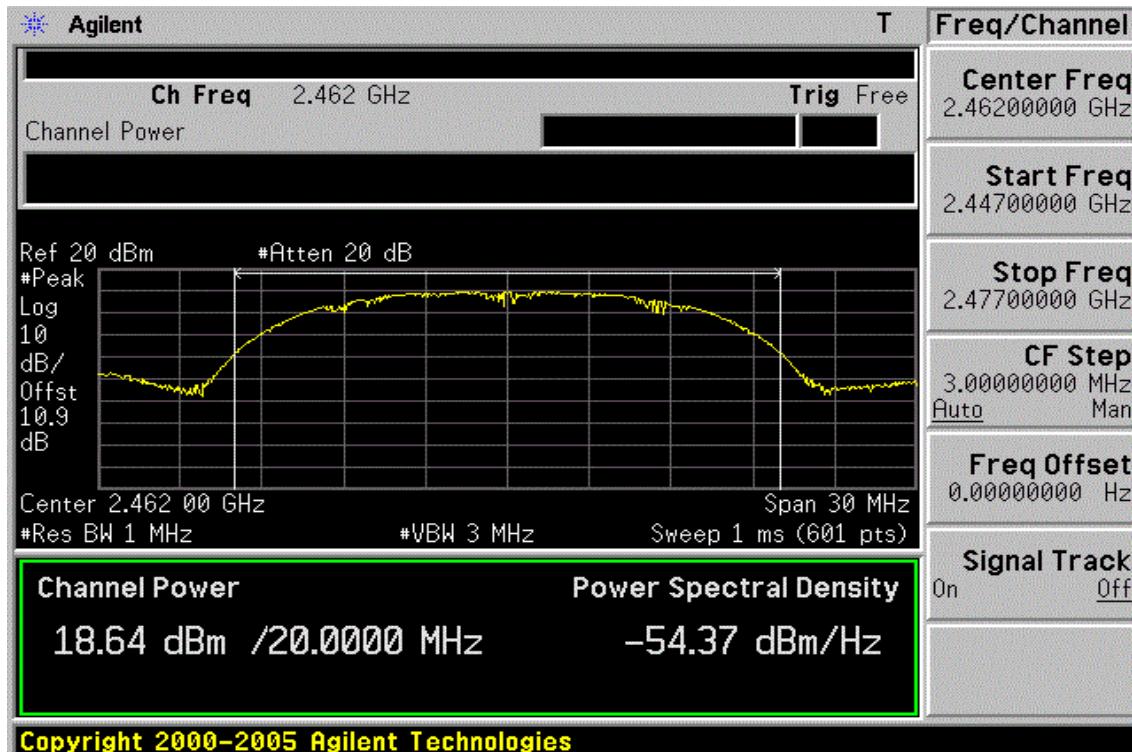
802.11b, 11Mbps
Peak Power Output Plot (CH Low)

Peak Power Output Plot (CH Mid)


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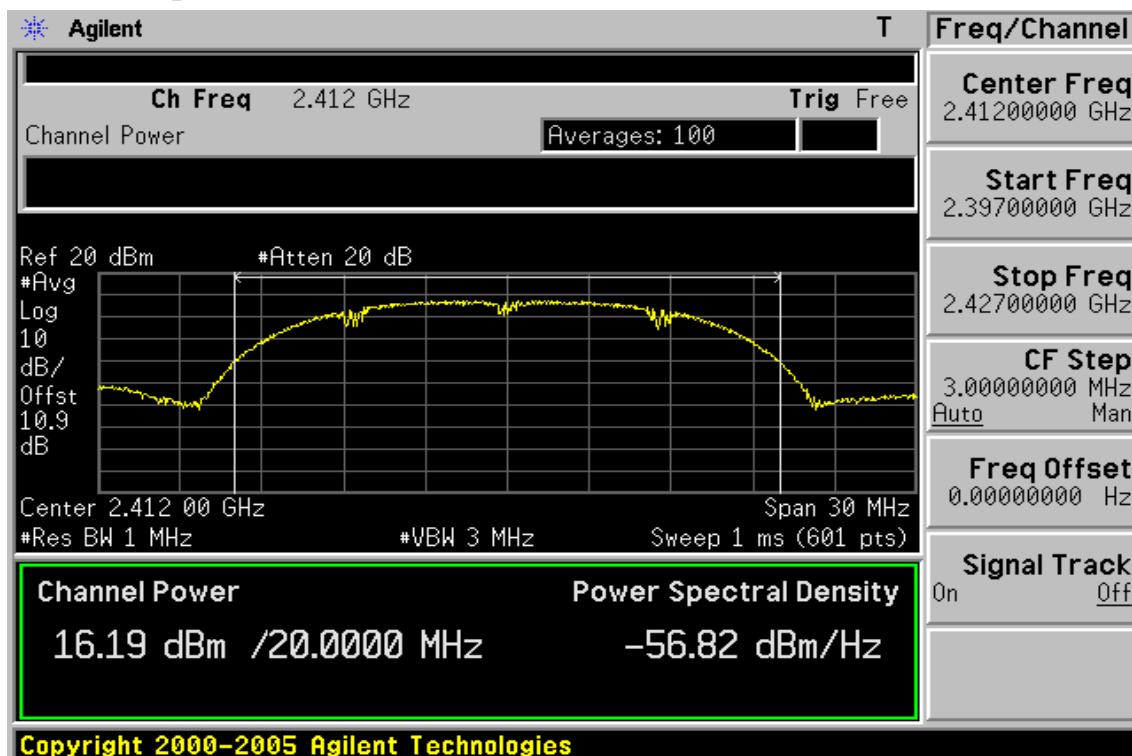
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)

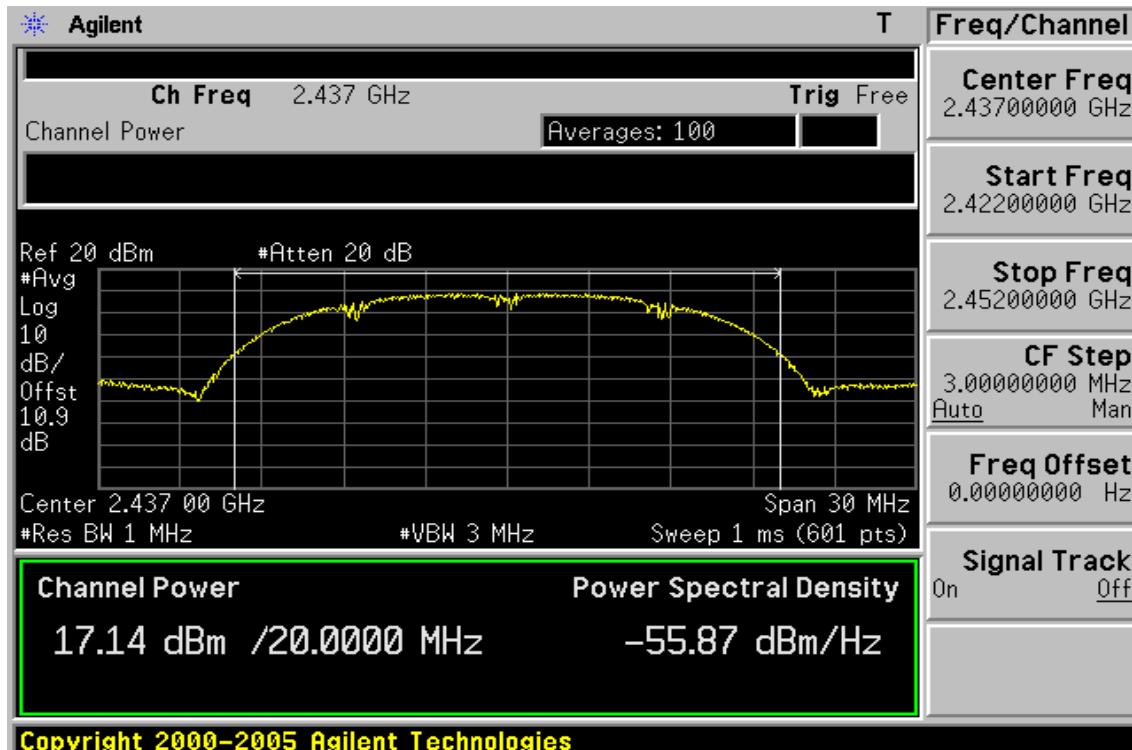


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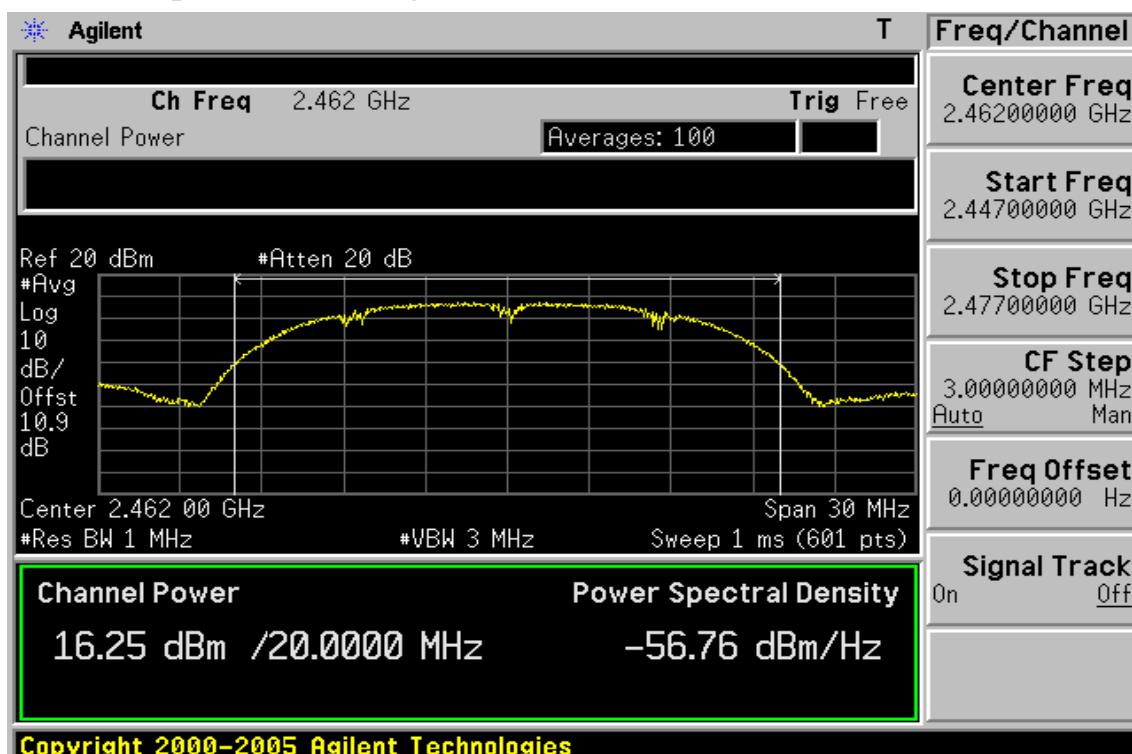
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Average Power Output Plot (CH Mid)



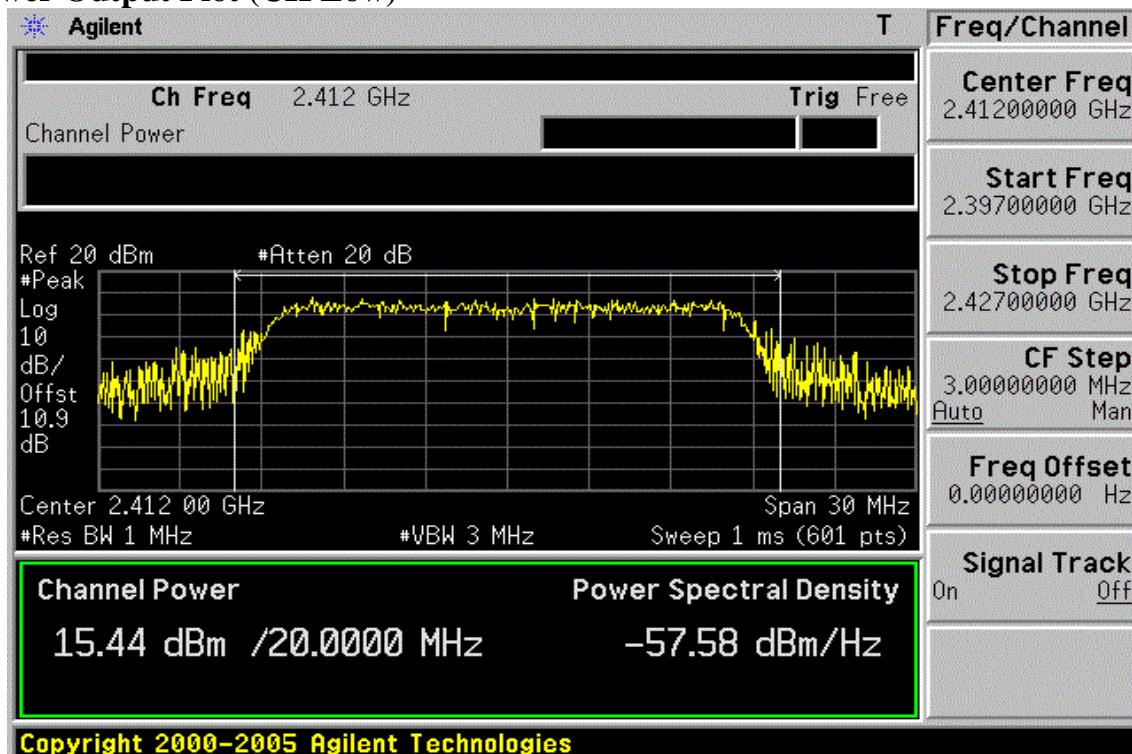
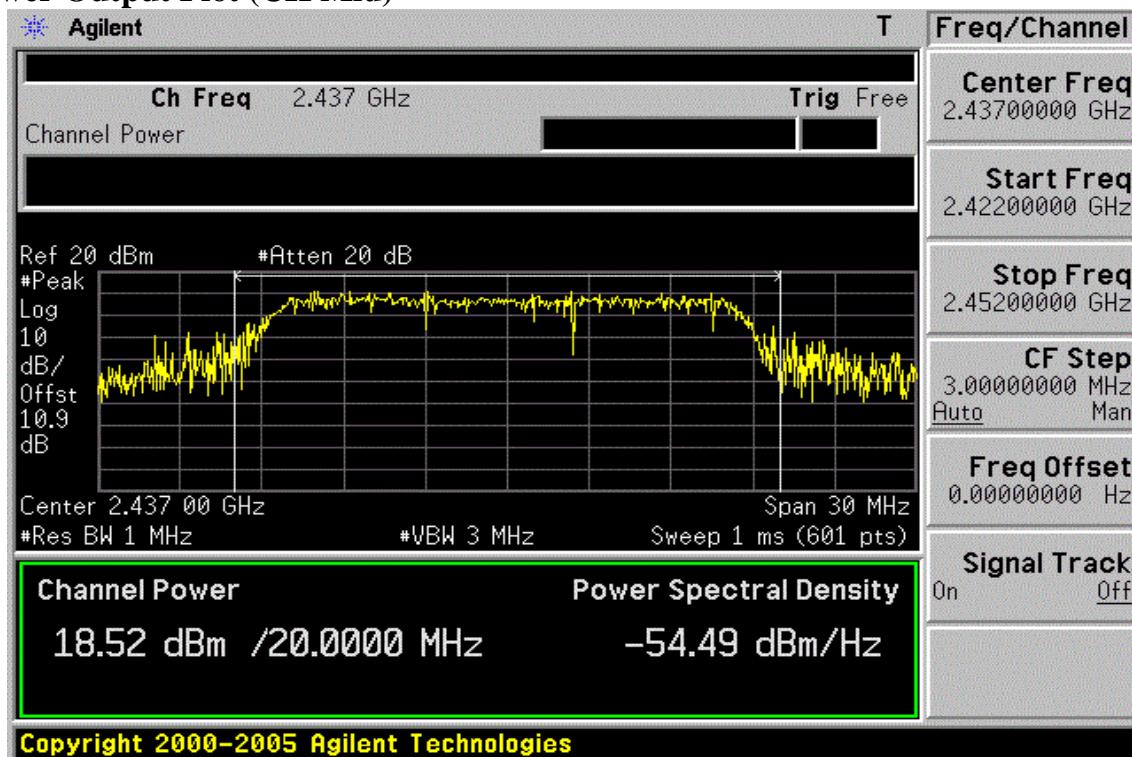
Average Power Output Plot (CH High)



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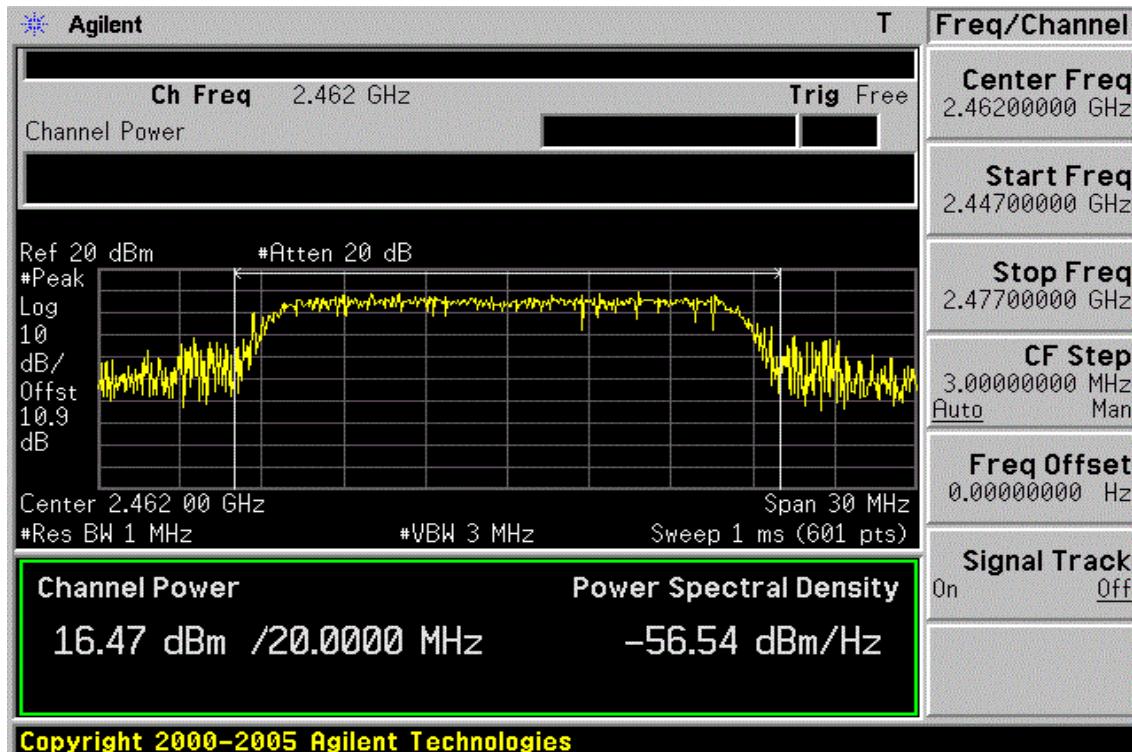
802.11g, 6Mbps**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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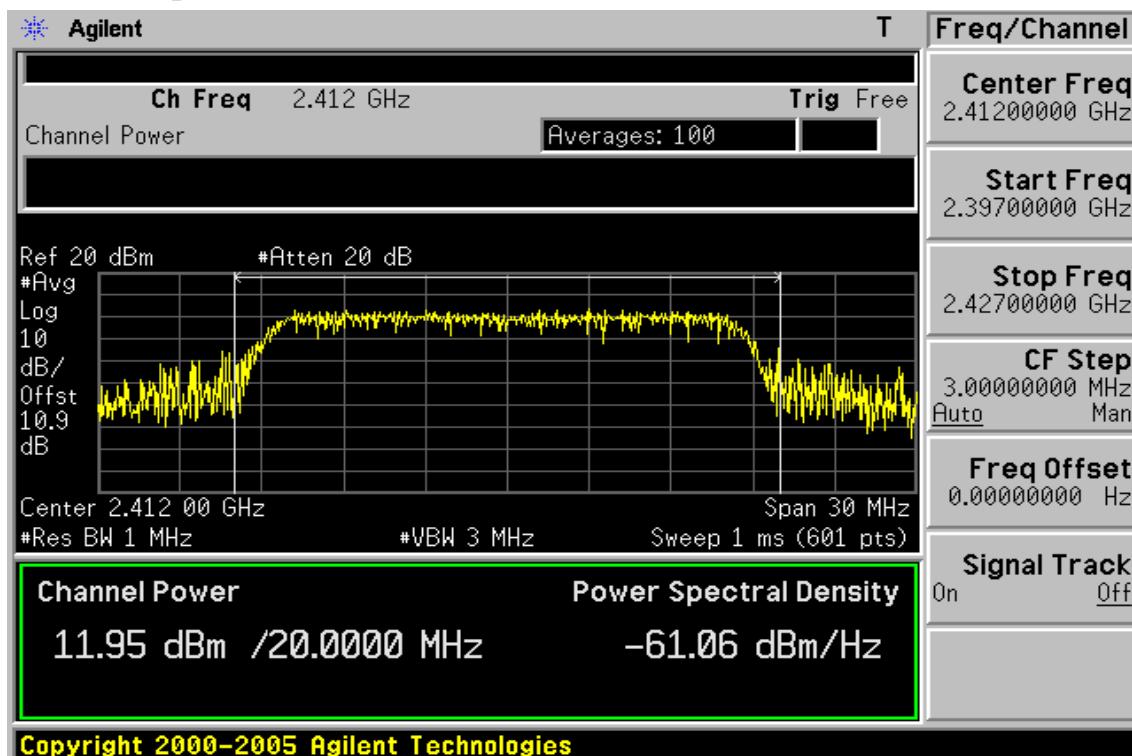
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)

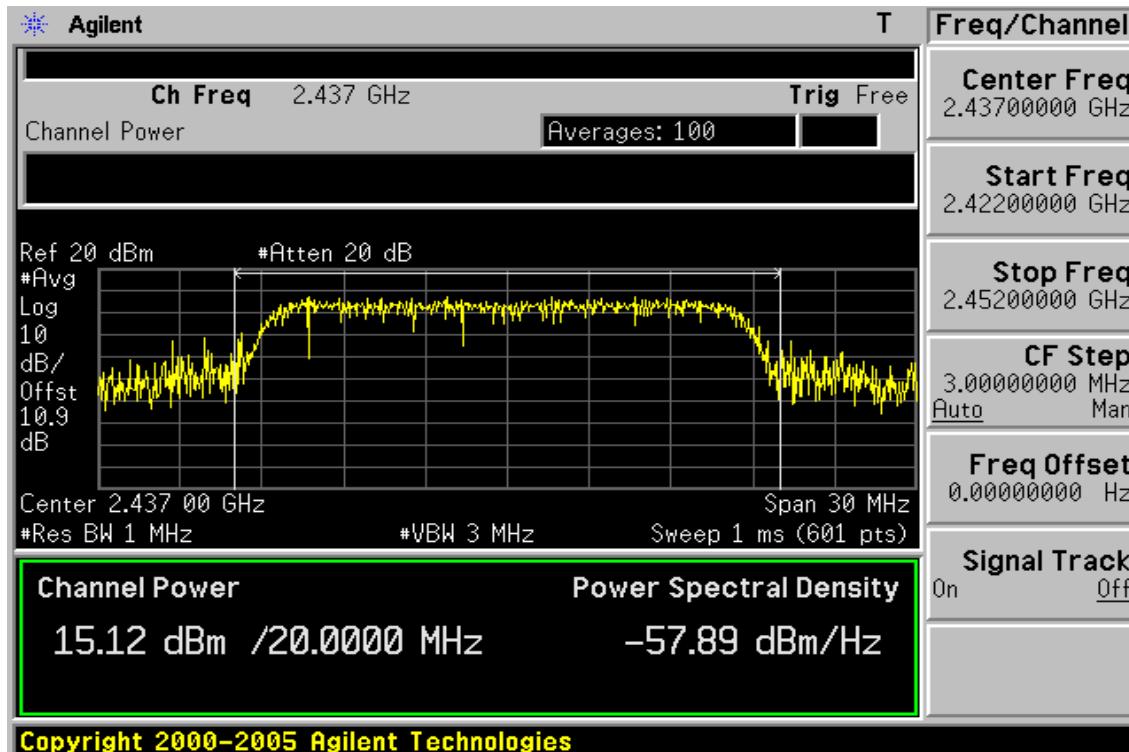


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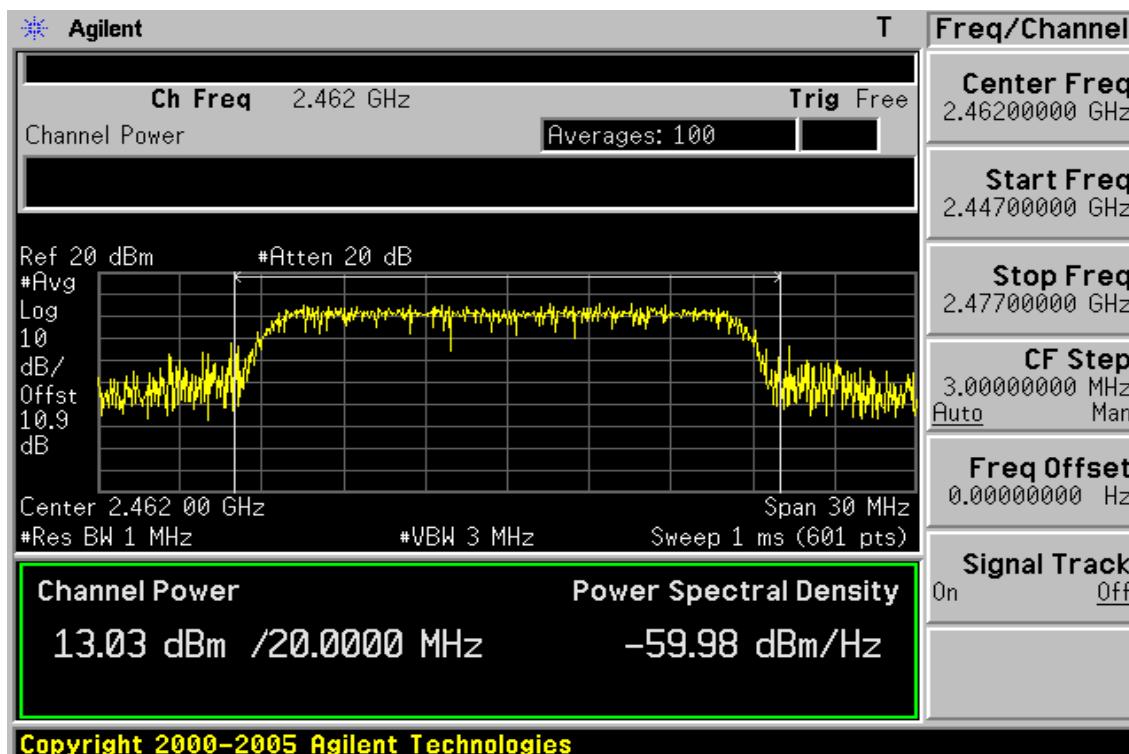
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Average Power Output Plot (CH Mid)



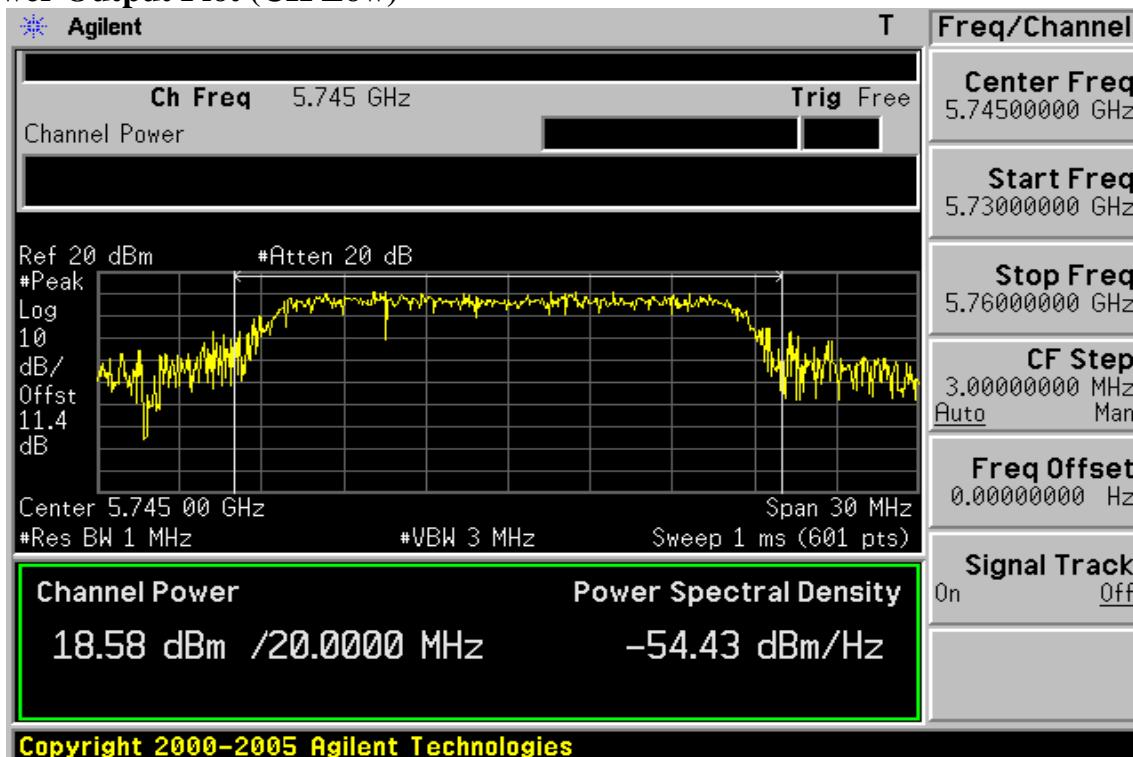
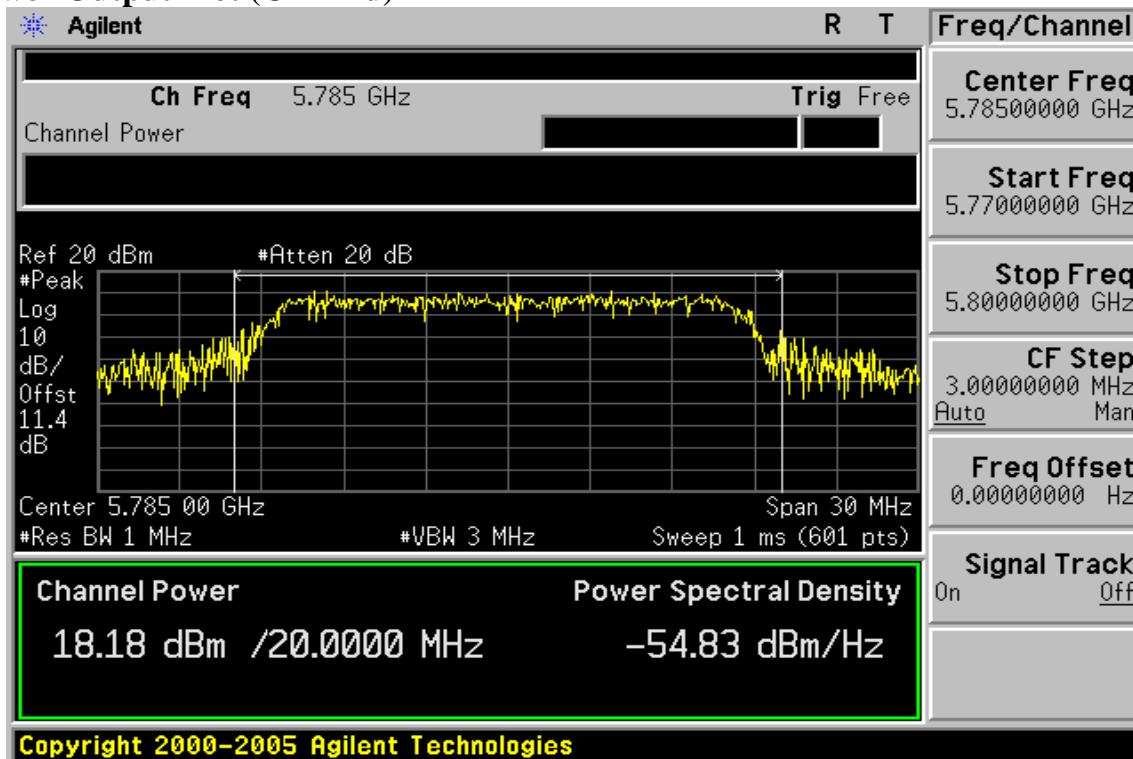
Average Power Output Plot (CH High)



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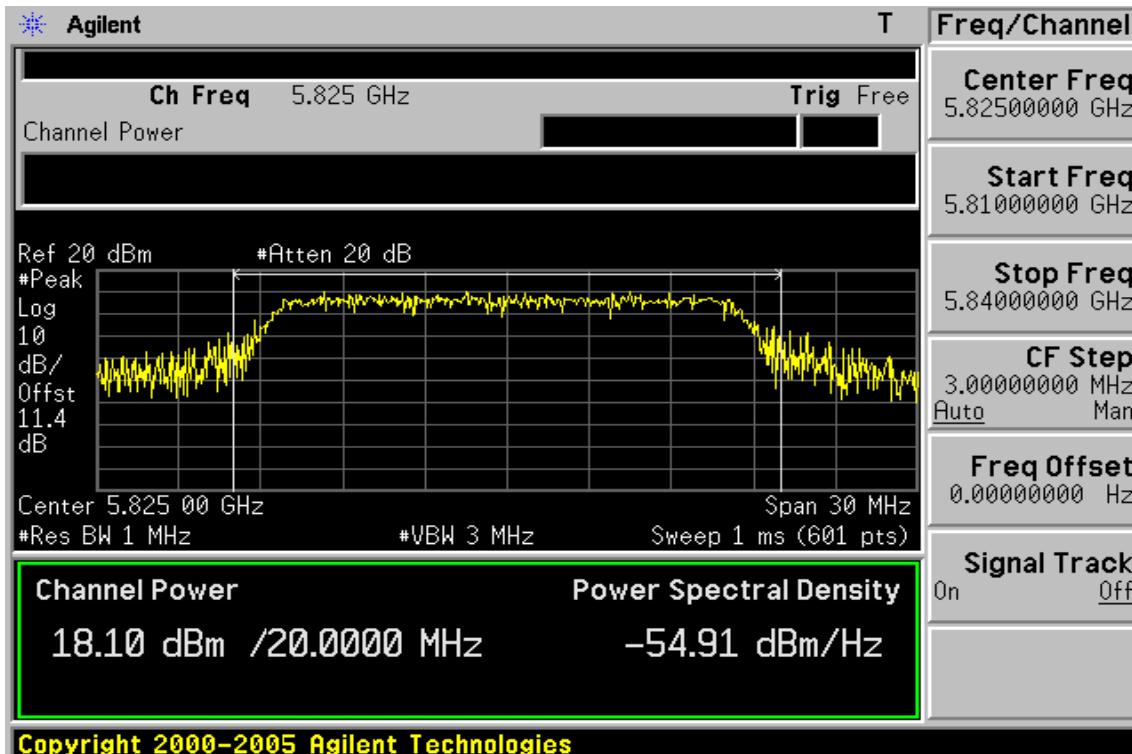
802.11a, 6Mbps**Peak Power Output Plot (CH Low)****Peak Power Output Plot (CH Mid)**

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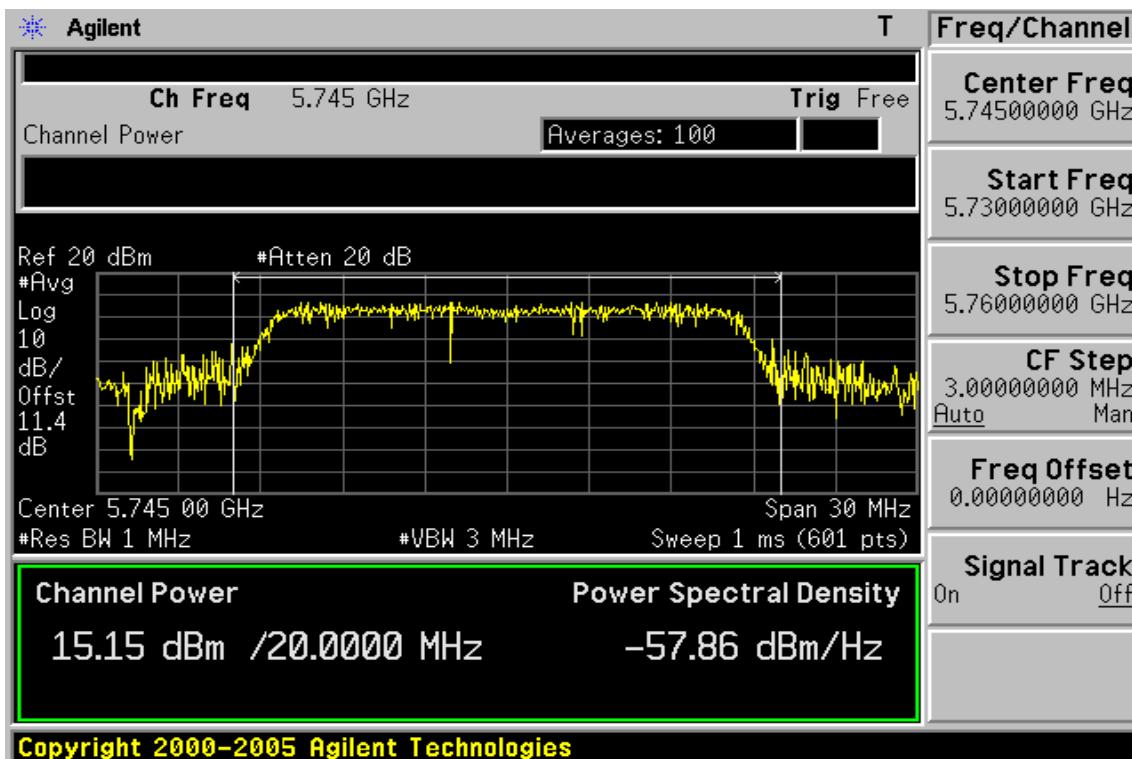
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Peak Power Output Plot (CH High)



Average Power Output Plot (CH Low)

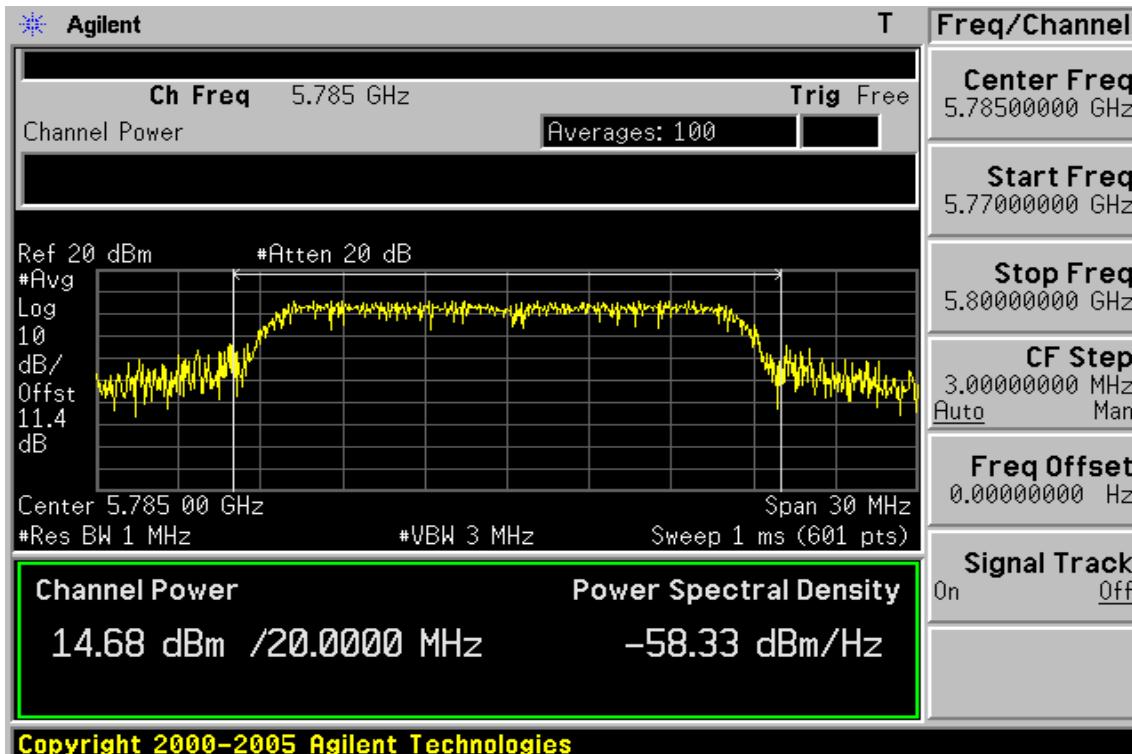


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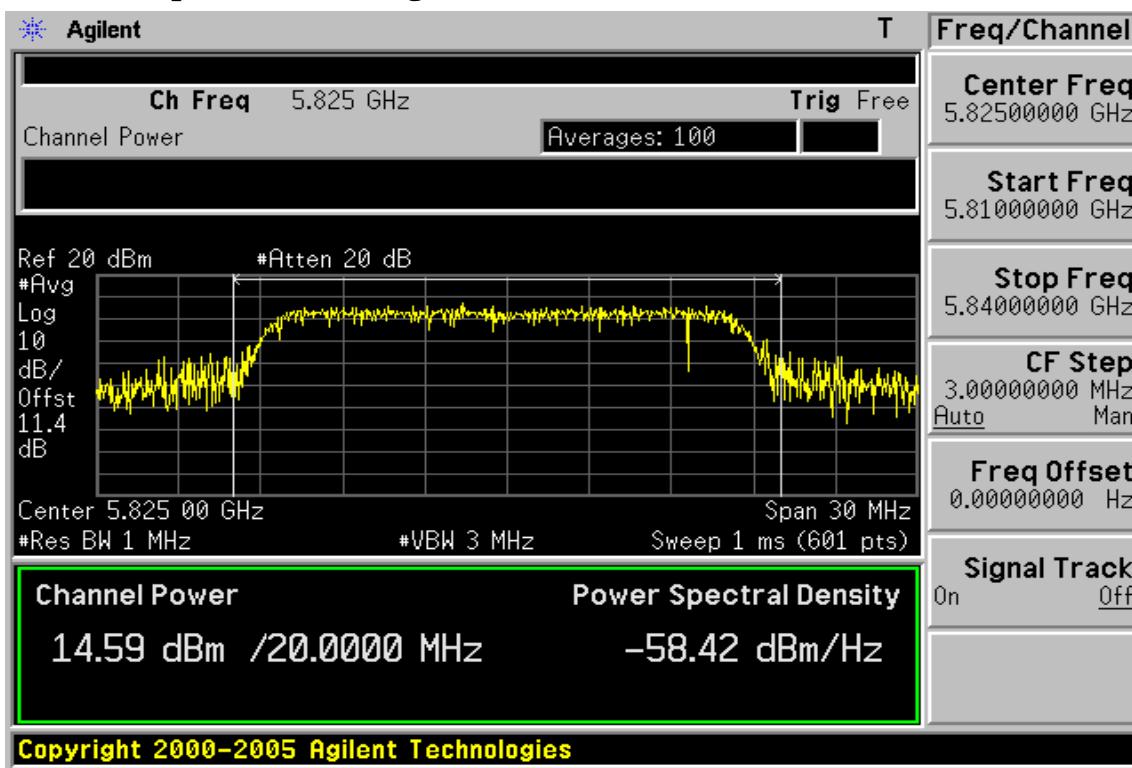
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Average Power Output Plot (CH Mid)



Average Power Output Plot (CH High)



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8 6dB BANDWIDTH

8.1 Standard Applicable:

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

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

8.2 Measurement Equipment Used:

Refer to section 7.2 for details

8.3 Test Set-up:

Refer to section 7.3 for details

8.4 Measurement Procedure:

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

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8.5 Measurement Result:

802.11b

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
2412	12.584	> 500	PASS
2437	13.032	> 500	PASS
2462	13.033	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
2412	16.424	> 500	PASS
2437	16.404	> 500	PASS
2462	16.413	> 500	PASS

*Offset 10.9dB

802.11a

Frequency (MHz)	Bandwidth (MHz)	Bandwidth (KHz)	Result
5745	16.401	> 500	PASS
5785	16.402	> 500	PASS
5825	16.407	> 500	PASS

*Offset 11.4dB

Note: Refer to next page for plots.

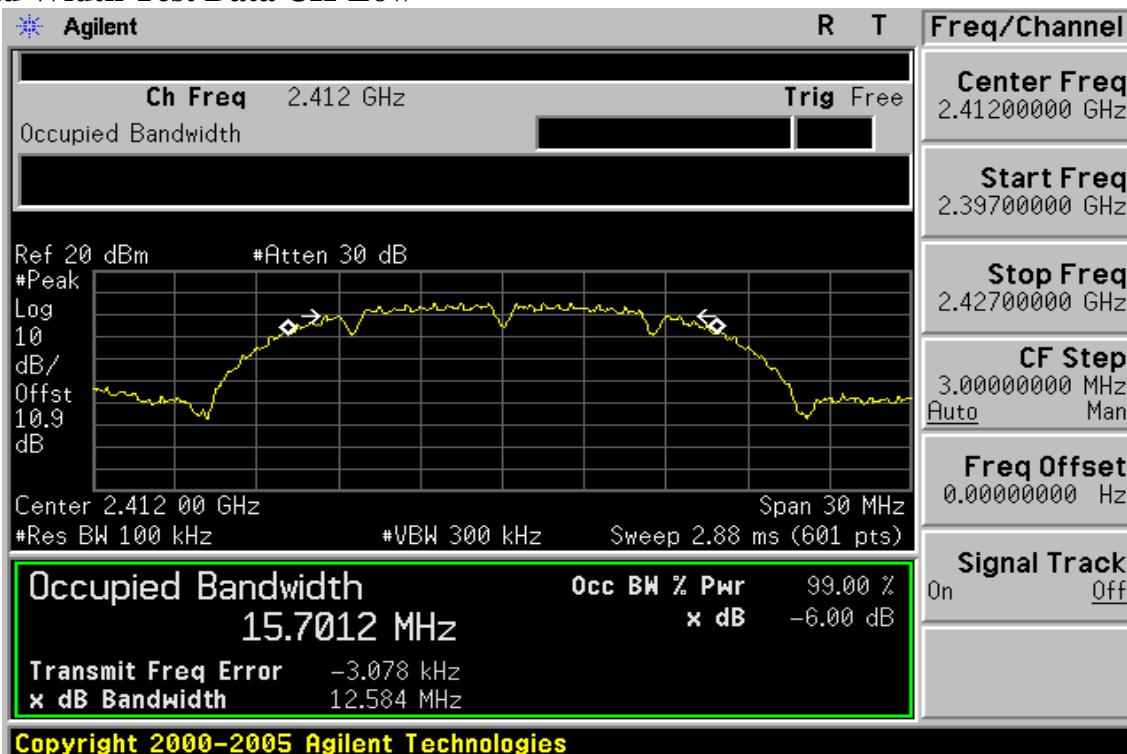
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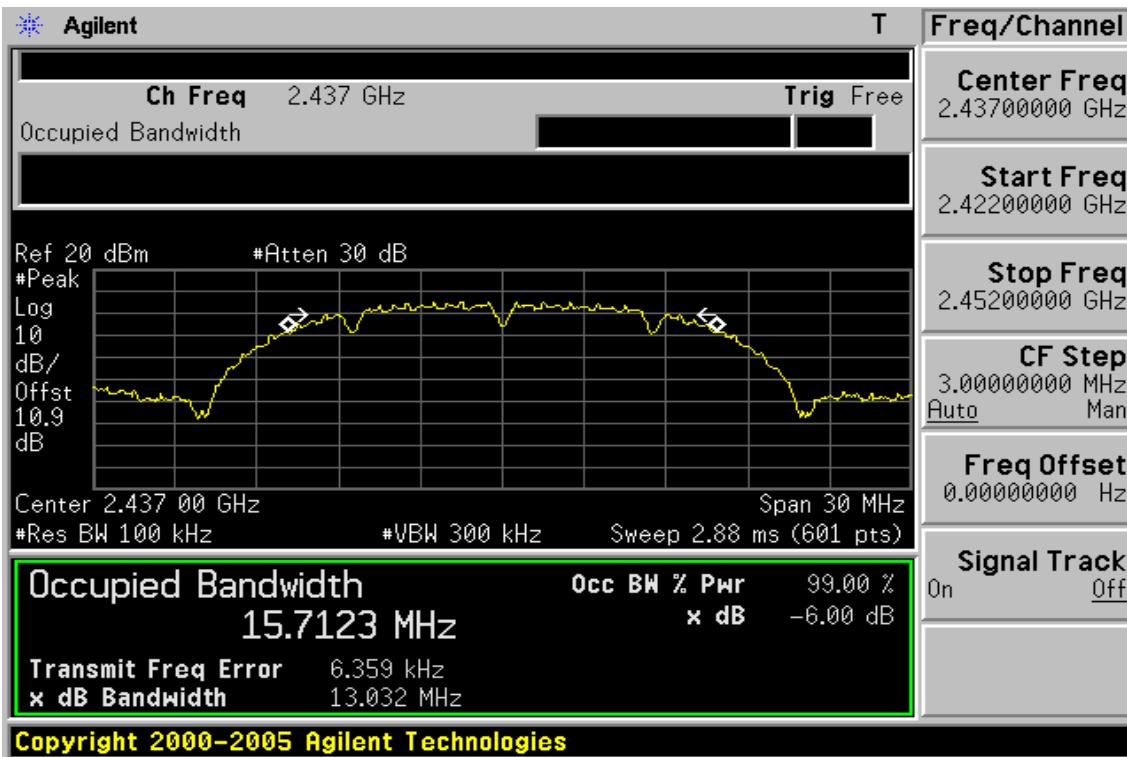
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

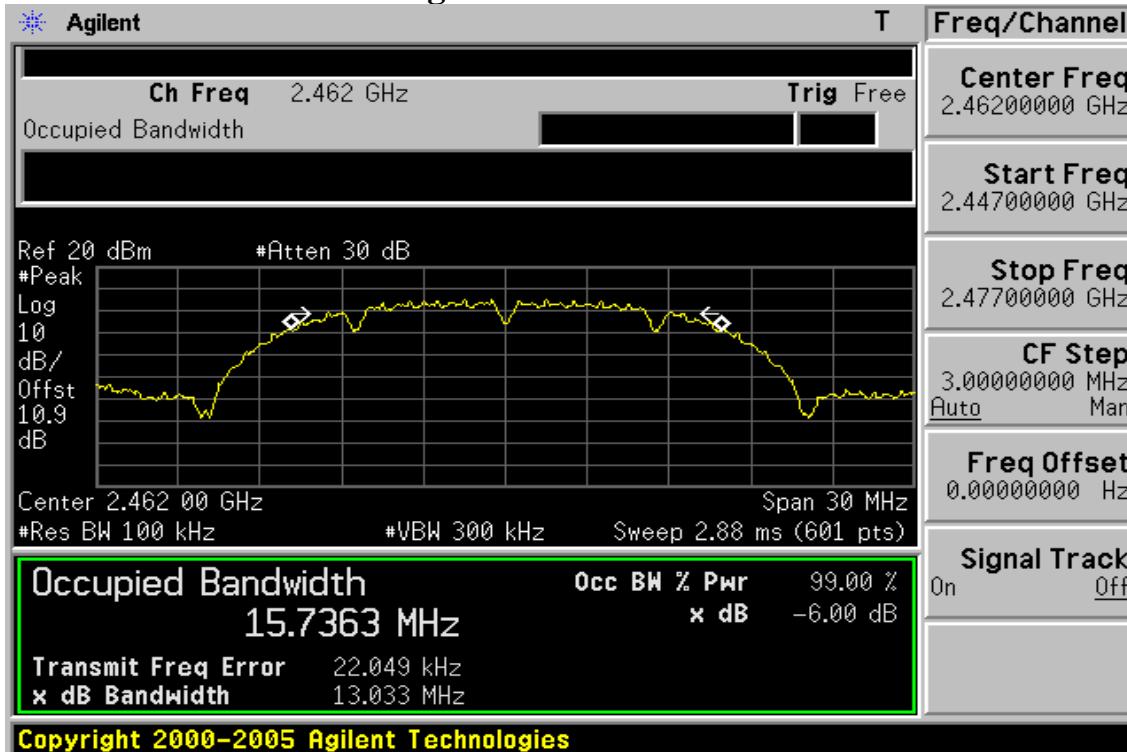


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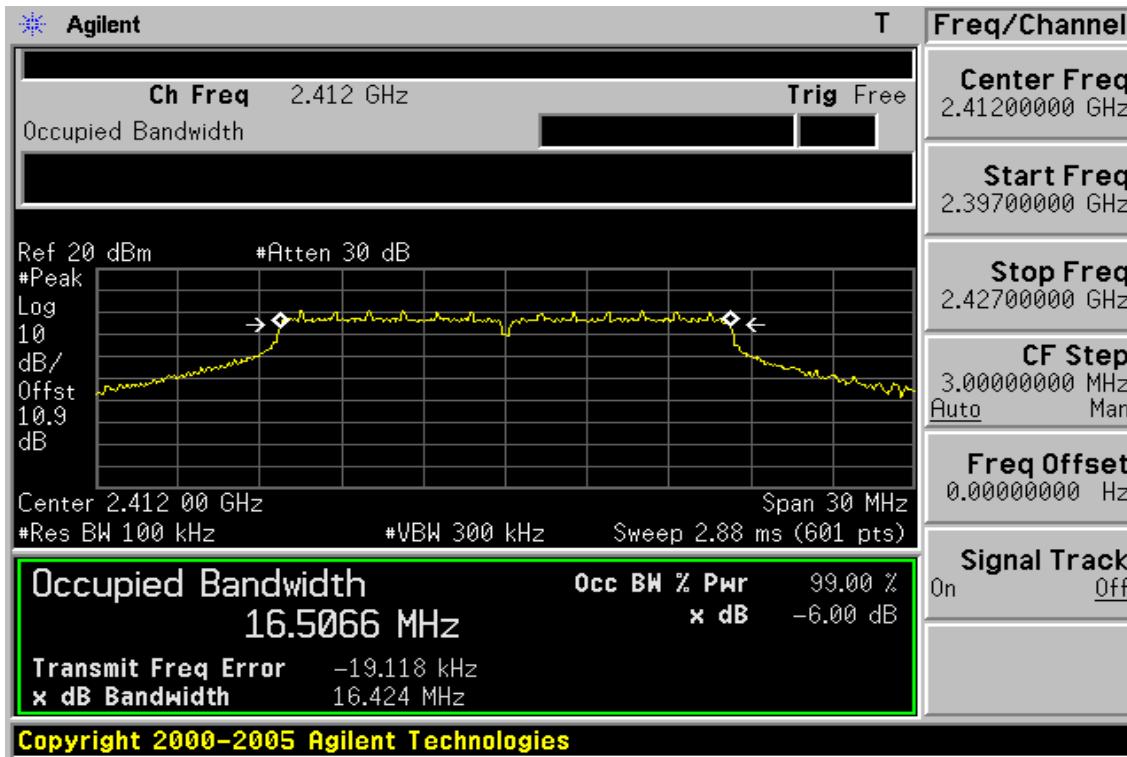
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

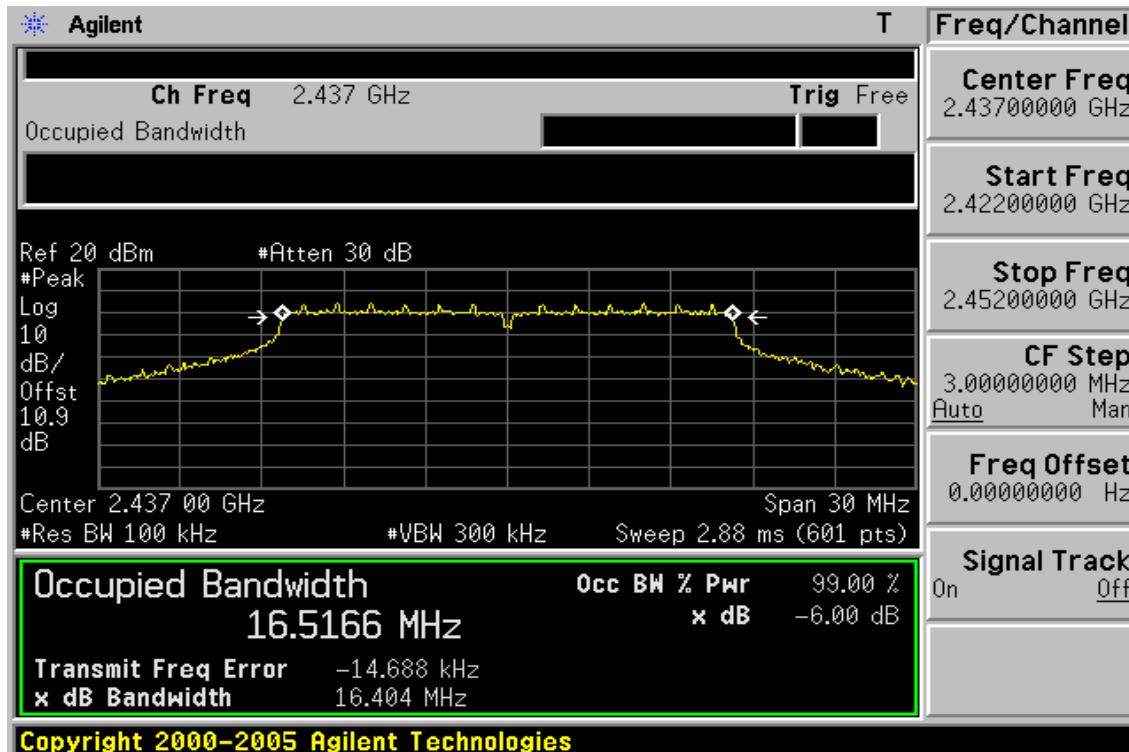


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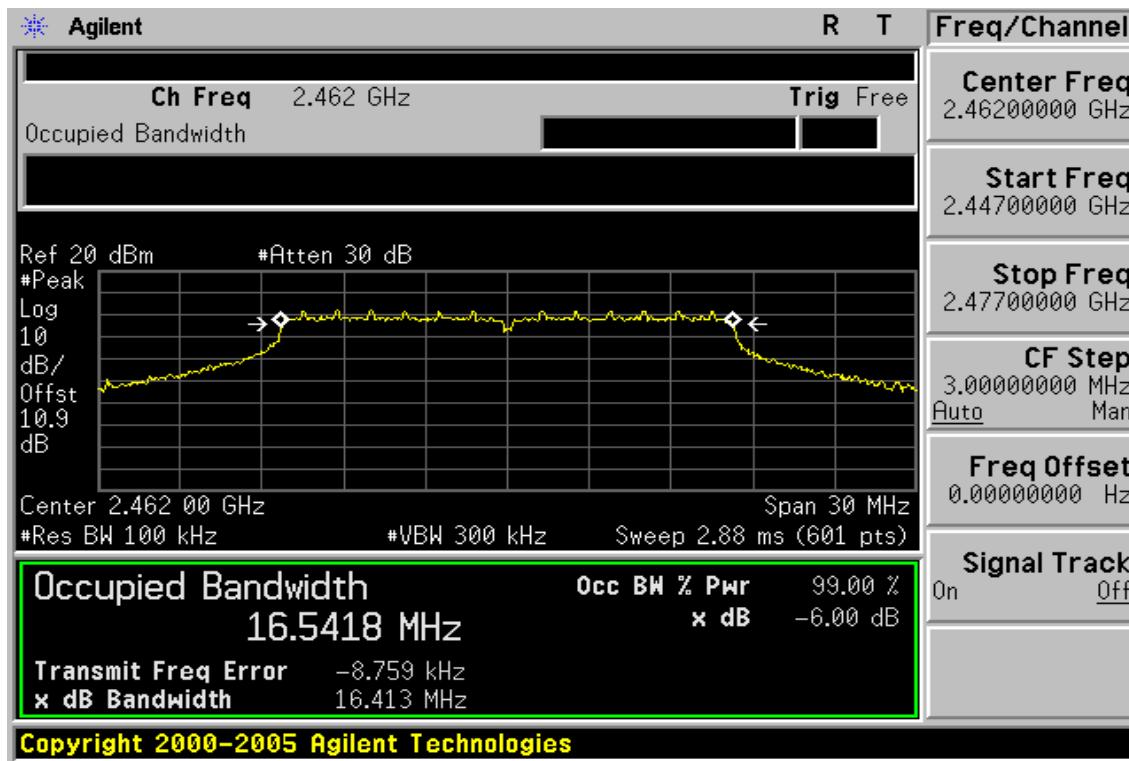
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



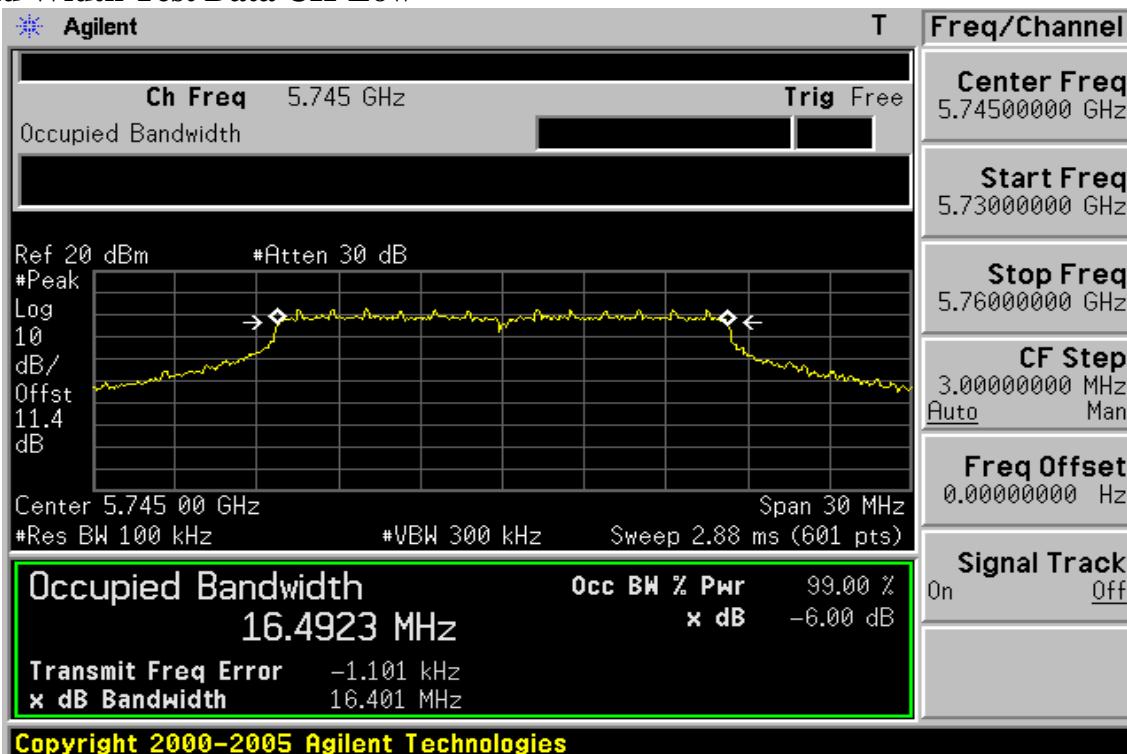
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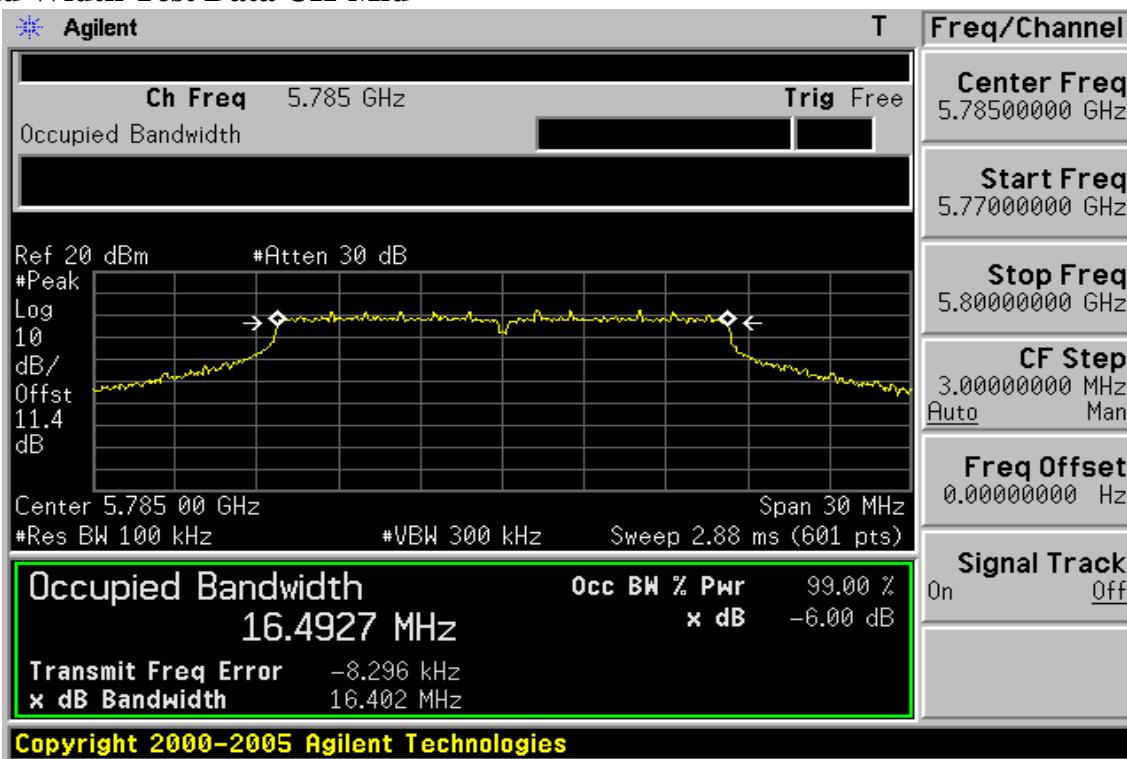
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802.11a

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

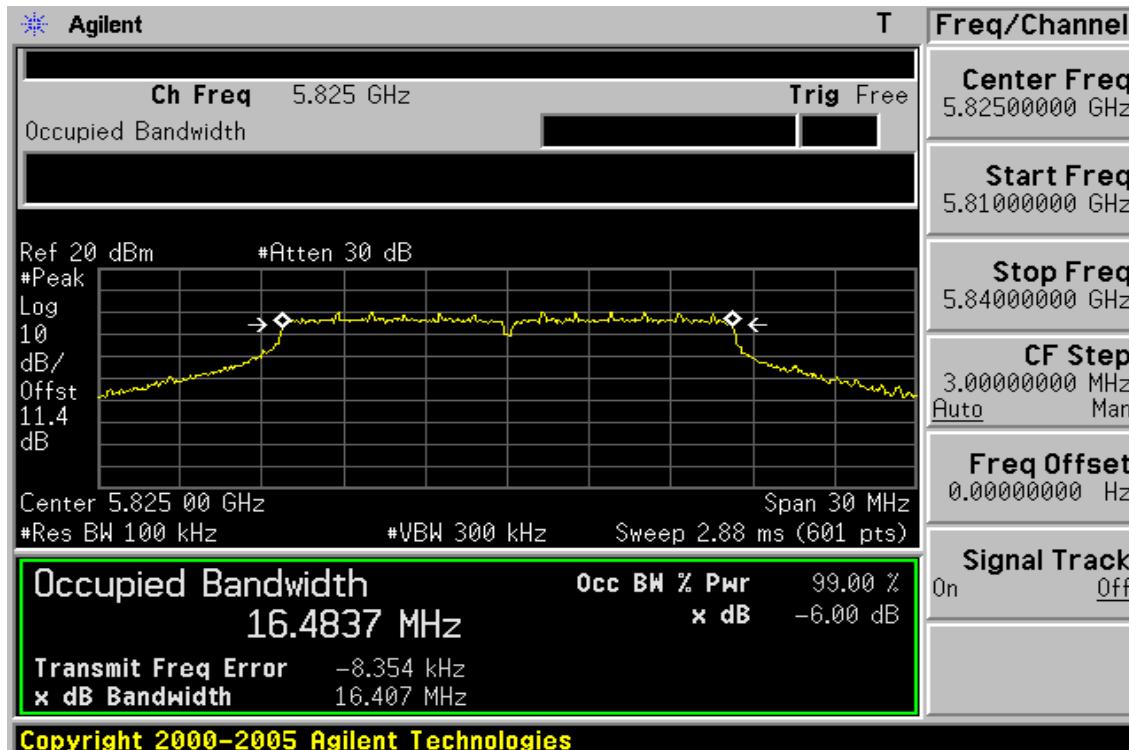


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6dB Band Width Test Data CH-High



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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	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
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	01/04/2013	01/03/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013

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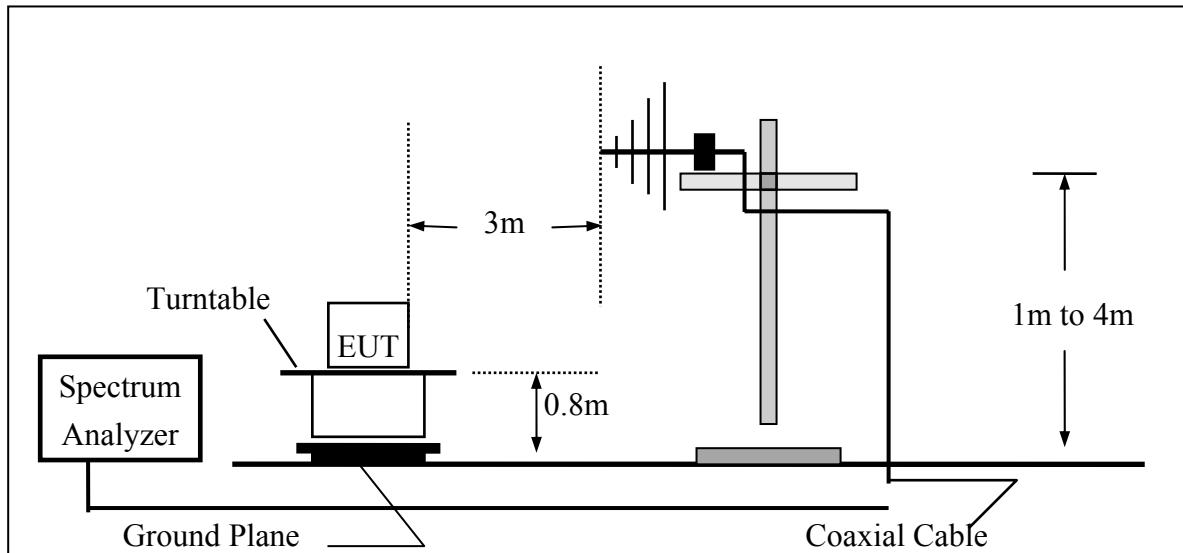
9.3 Test SET-UP:

9.3.1 Conducted Emission at antenna port:

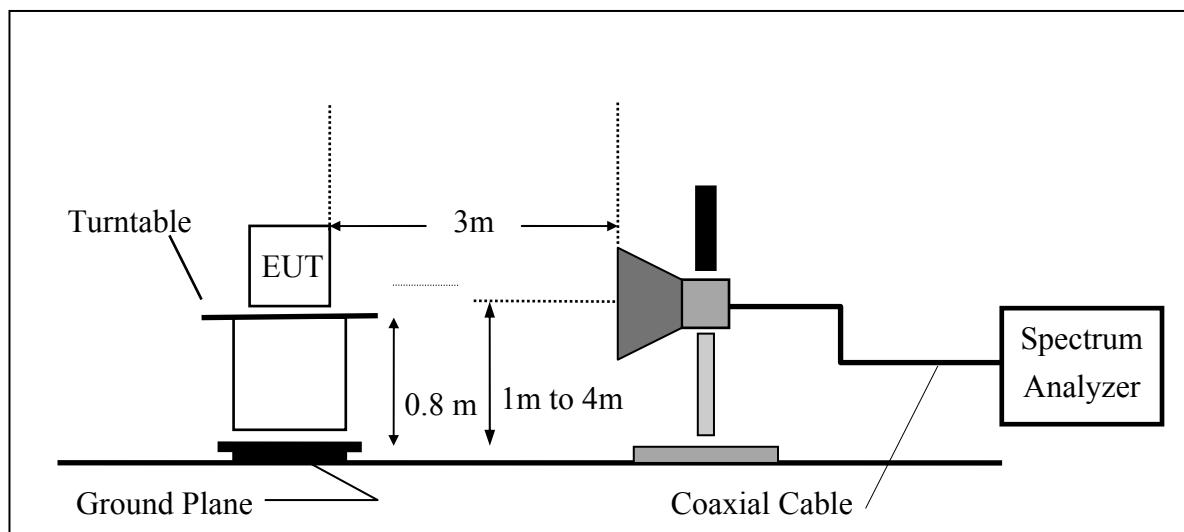
Refer to section 7.3 for details.

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.

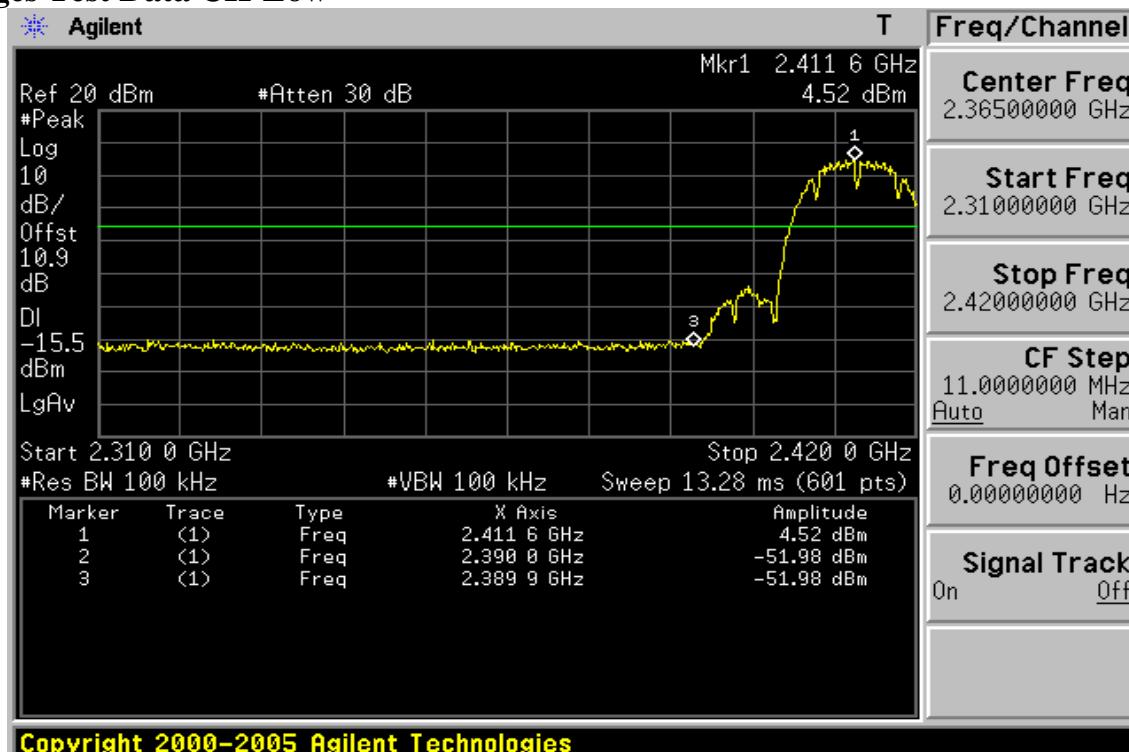
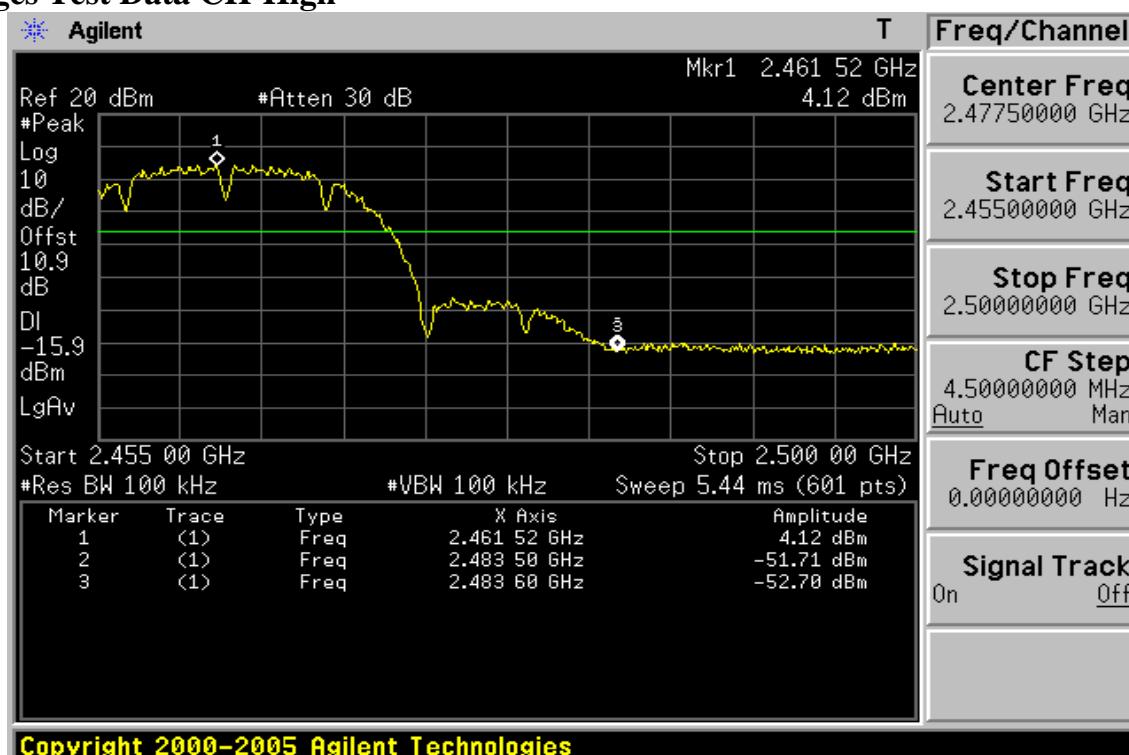
9.5 Measurement Result:

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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Radiated Emission: 802.11 b mode (Internal Antenna)

Operation Band	:802.11b	Test Date	:2013-01-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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
			Mode	Reading Level dB μ V				
2390.00	E	Average	45.60	2.12	47.72	54.00	-6.28	
2390.00	E	Peak	55.44	2.12	57.56	74.00	-16.44	

Operation Band	:802.11b	Test Date	:2013-01-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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
			Mode	Reading Level dB μ V				
2390.00	E	Average	43.28	2.74	46.02	54.00	-7.98	
2390.00	E	Peak	53.96	2.74	56.70	74.00	-17.30	

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.

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Operation Band :802.11b **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	47.23	2.53	49.76	54.00	-4.24
2483.50	E	Peak	55.71	2.53	58.24	74.00	-15.76

Operation Band :802.11b **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	44.60	3.56	48.16	54.00	-5.84
2483.50	E	Peak	54.47	3.56	58.03	74.00	-15.97

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.

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Radiated Emission: 802.11 b mode (External Antenna)

Operation Band	:802.11b	Test Date	:2013-01-11
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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
			Mode	Reading Level dB μ V				
2390.00	E	Average	44.36	2.12	46.48	54.00	-7.52	
2390.00	E	Peak	55.54	2.12	57.66	74.00	-16.34	

Operation Band	:802.11b	Test Date	:2013-01-08
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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
			Mode	Reading Level dB μ V				
2390.00	E	Average	40.05	2.74	42.79	54.00	-11.21	
2390.00	E	Peak	53.68	2.74	56.42	74.00	-17.58	

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.

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Operation Band :802.11b **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	43.80	2.53	46.33	54.00	-7.67
2483.50	E	Peak	54.02	2.53	56.55	74.00	-17.45

Operation Band :802.11b **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	40.89	3.56	44.45	54.00	-9.55
2483.50	E	Peak	53.24	3.56	56.80	74.00	-17.20

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.

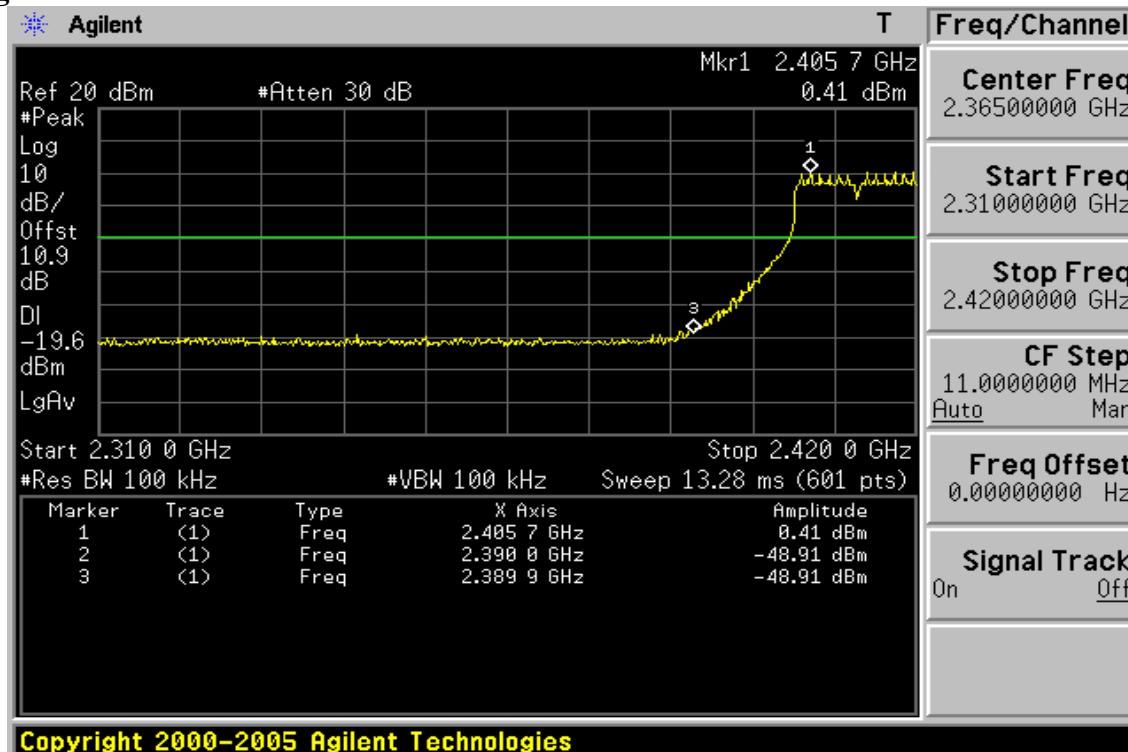
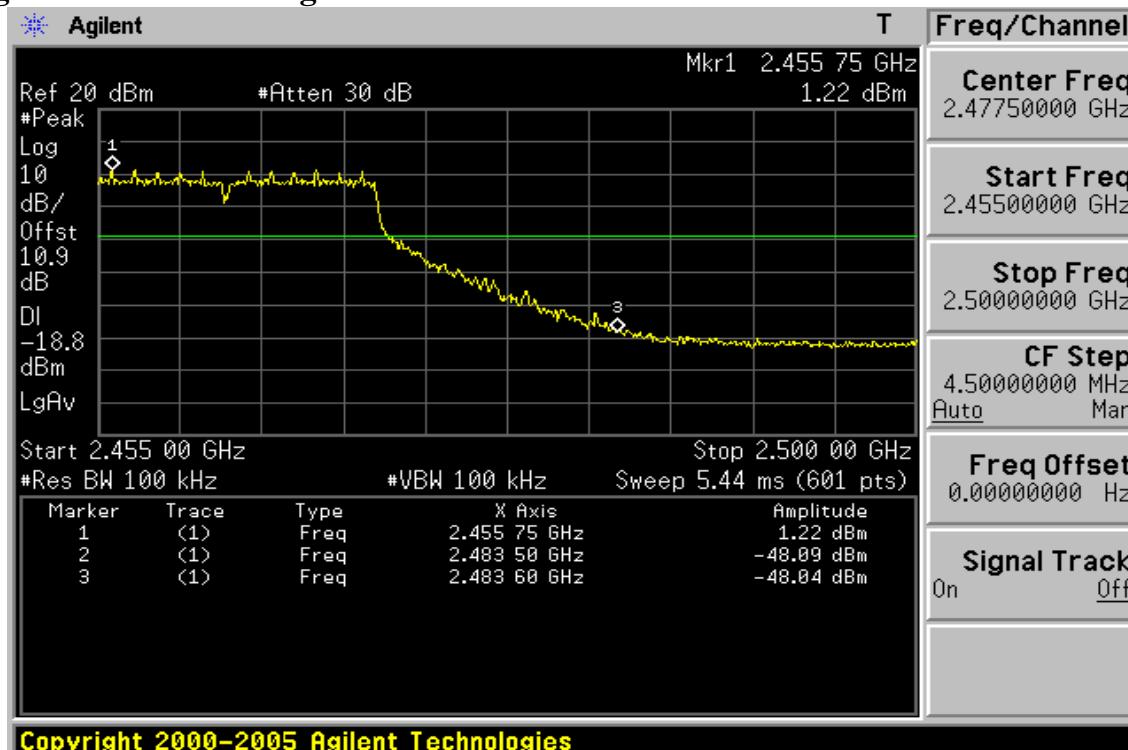
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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802.11g
Band Edges Test Data CH-Low

Band Edges Test Data CH-High


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Radiated Emission: 802.11 g mode (Internal Antenna)

Operation Band	:802.11g	Test Date	:2013-01-09
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

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
			Mode	Reading Level				
2390.00	E	Average	47.75	2.12	49.87	54.00	-4.13	
2390.00	E	Peak	64.59	2.12	66.71	74.00	-7.29	

Operation Band	:802.11g	Test Date	:2013-01-09
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.4eg_C/61RH
Operation Mode	:BANDEDGE LOW	Engineer	:Nick
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

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
			Mode	Reading Level				
2390.00	E	Average	44.22	2.74	46.96	54.00	-7.04	
2390.00	E	Peak	61.87	2.74	64.61	74.00	-9.39	

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.

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Operation Band :802.11g **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	50.30	2.53	52.83	54.00	-1.17
2483.50	E	Peak	63.73	2.53	66.26	74.00	-7.74

Operation Band :802.11g **Test Date** :2013-01-08
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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	Margin dB
						FS dB μ V/m	
2483.50	E	Average	47.45	3.56	51.01	54.00	-2.99
2483.50	E	Peak	59.96	3.56	63.52	74.00	-10.48

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.

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Radiated Emission: 802.11 g mode (External Antenna)

Operation Band :802.11g Test Date :2013-01-09
 Fundamental Frequency :2412 MHz Temp./Humi. :25.4eg_C/61RH
 Operation Mode :BANDEDGE LOW Engineer :Nick
 EUT Pol. :H Plan Measurement Antenna Pol. :VERTICAL

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
			Mode	Reading Level				
2390.04	E	Average	49.19	2.12	51.31	54.00	-2.69	
2390.04	E	Peak	65.61	2.12	67.73	74.00	-6.27	

Operation Band :802.11g Test Date :2013-01-09
 Fundamental Frequency :2412 MHz Temp./Humi. :25.4eg_C/61RH
 Operation Mode :BANDEDGE LOW Engineer :Nick
 EUT Pol. :H Plan Measurement Antenna Pol. :HORIZONTAL

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
			Mode	Reading Level				
2390.04	E	Average	47.18	2.74	49.92	54.00	-4.08	
2390.04	E	Peak	56.25	2.74	58.99	74.00	-15.01	

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.

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Operation Band :802.11g **Test Date** :2013-01-09
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :VERTICAL

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
			Mode	Reading Level				
2483.50	E	Average	48.54	2.53	51.07	54.00	-2.93	
2483.50	E	Peak	62.88	2.53	65.41	74.00	-8.59	

Operation Band :802.11g **Test Date** :2013-01-09
Fundamental Frequency :2462 MHz **Temp./Humi.** :25.4eg_C/61RH
Operation Mode :BANDEDGE HIGH **Engineer** :Nick
EUT Pol. :H Plan **Measurement Antenna Pol.** :HORIZONTAL

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
			Mode	Reading Level				
2483.50	E	Average	45.25	3.56	48.81	54.00	-5.19	
2483.50	E	Peak	63.97	3.56	67.53	74.00	-6.47	

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.

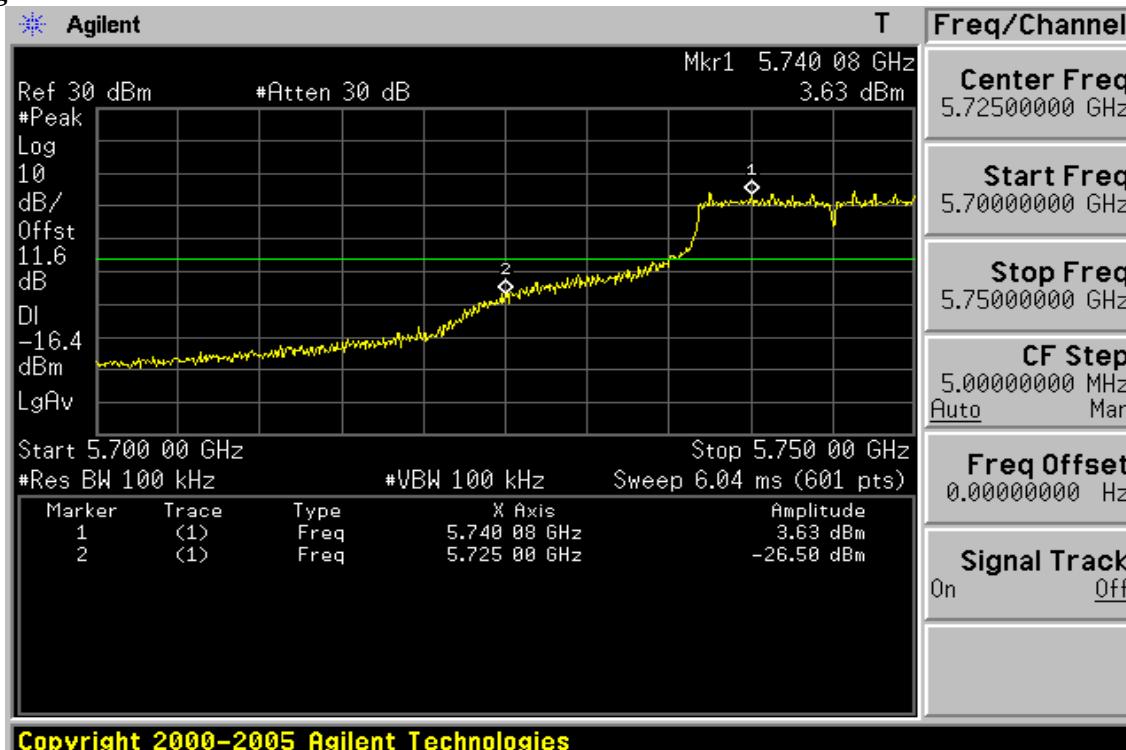
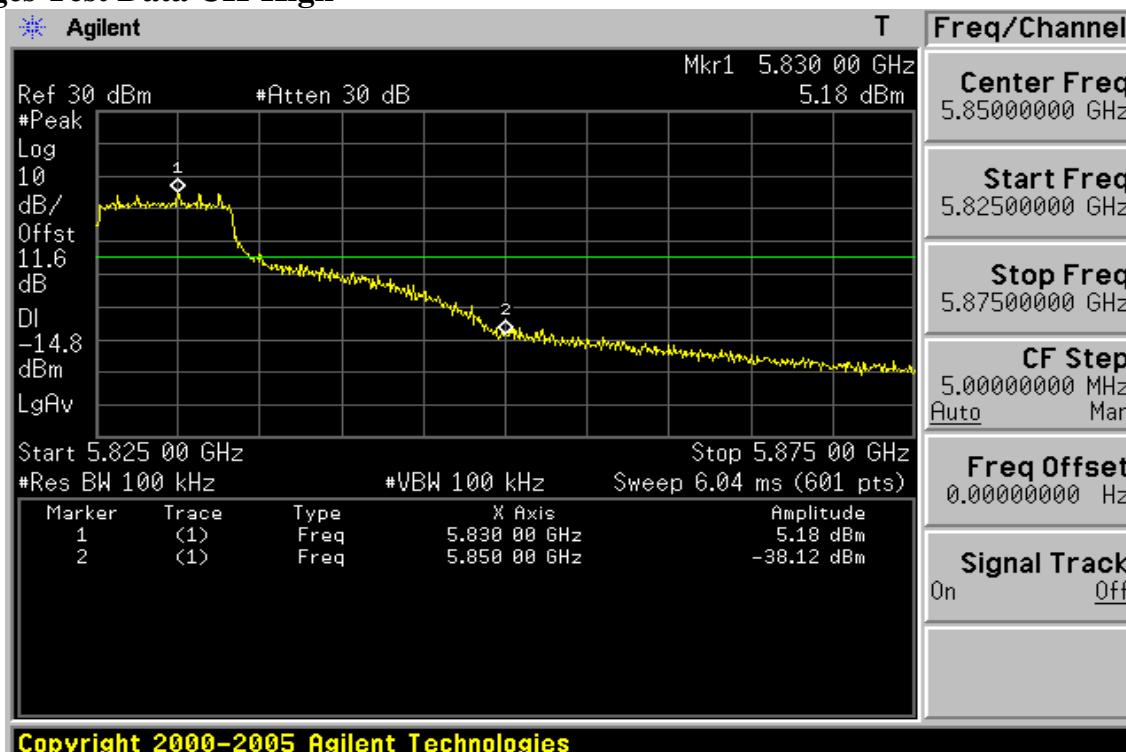
“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

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802.11a
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

10.5 Field Strength Calculation

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

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

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

10.6 Measurement Result:

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

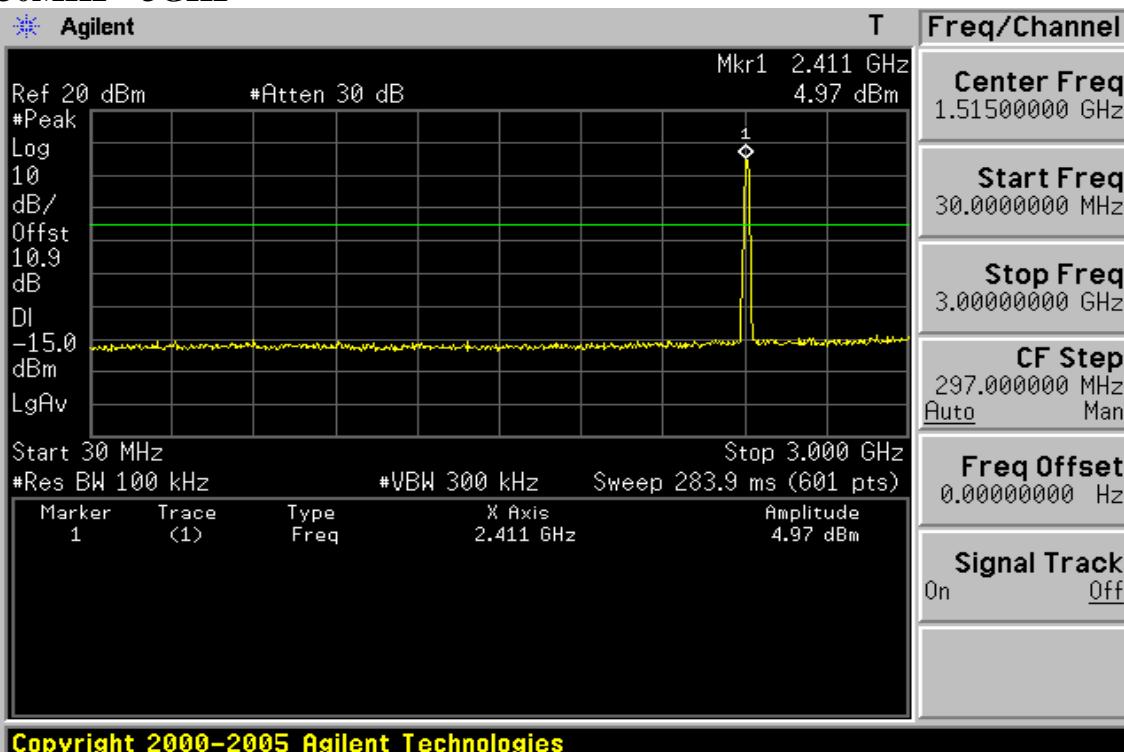
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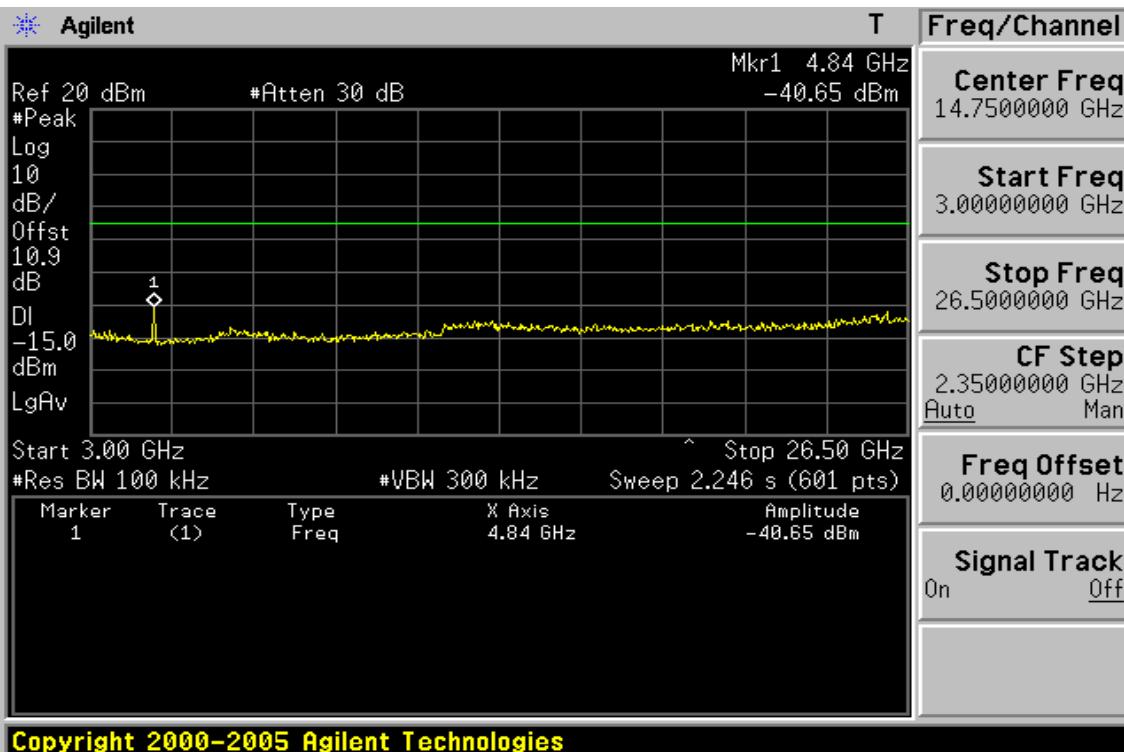
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Conducted Spurious Emission Measurement Result (802.11b)

Ch Low 30MHz – 3GHz



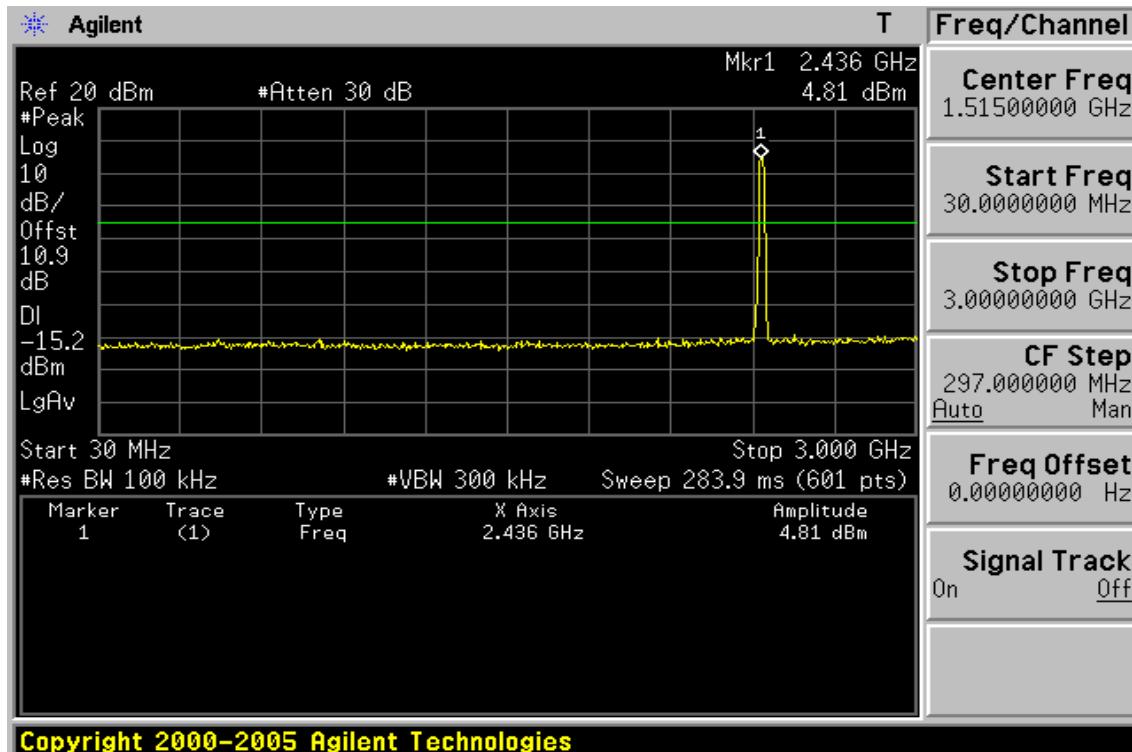
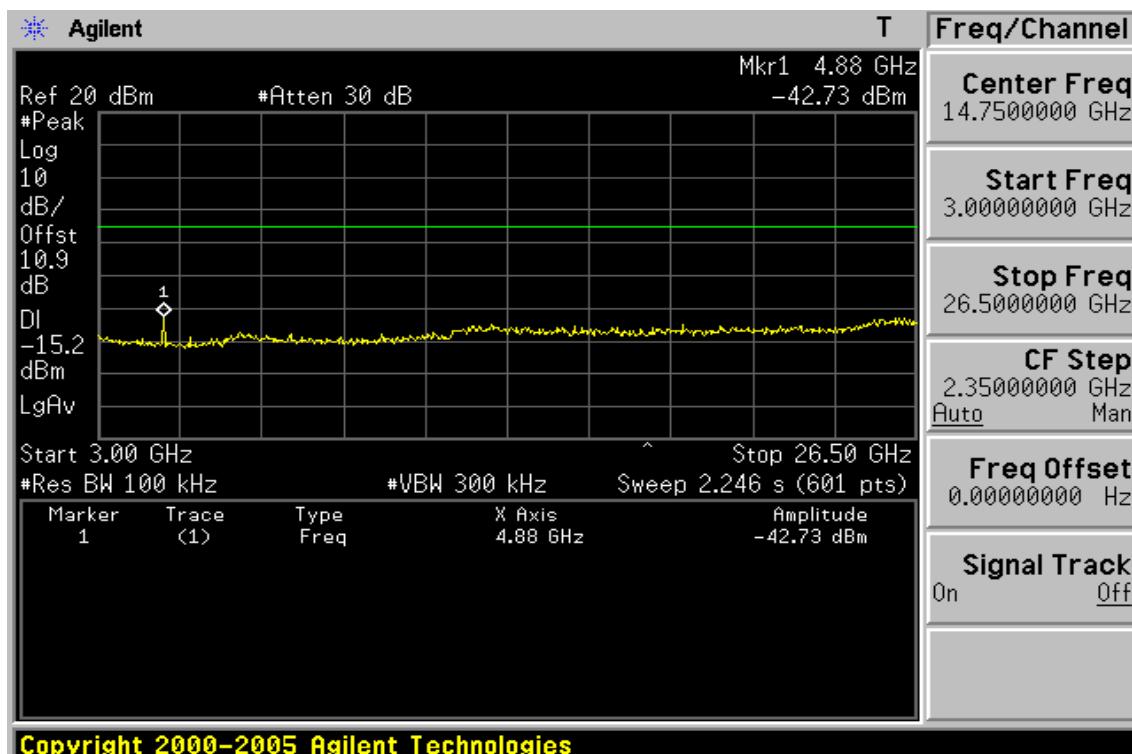
Ch Low 3GHz – 26.5GHz



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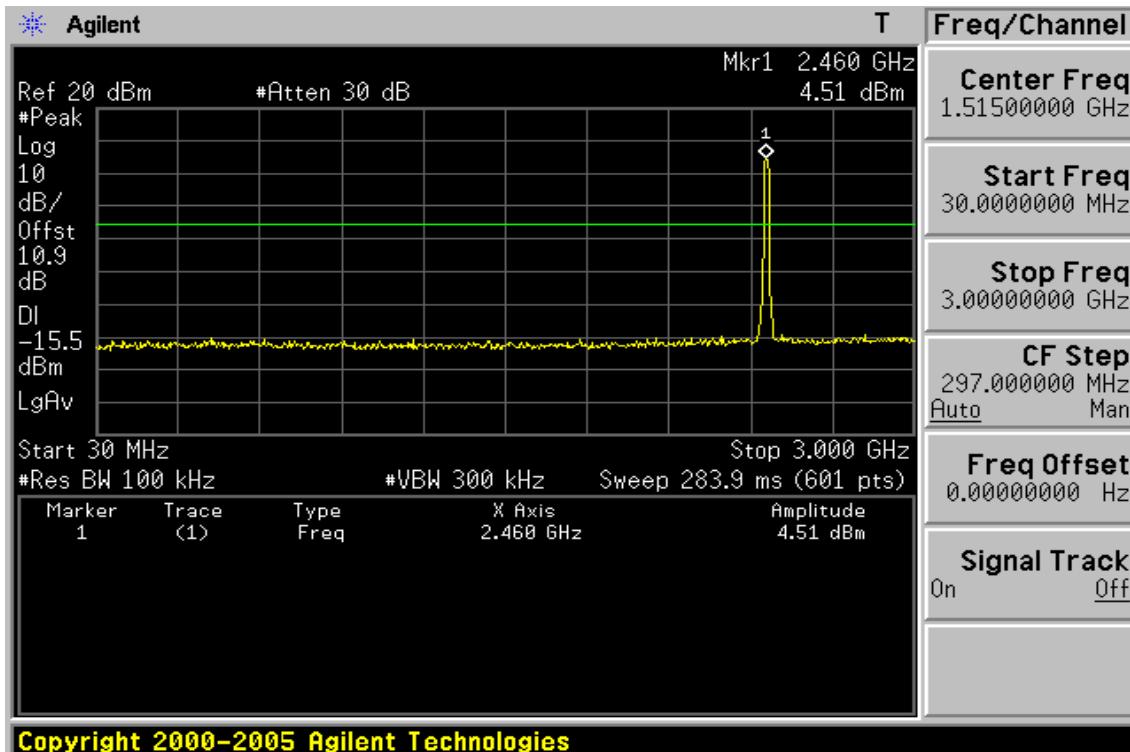
Ch Mid 30MHz – 3GHz

Ch Mid 3GHz – 26.5GHz


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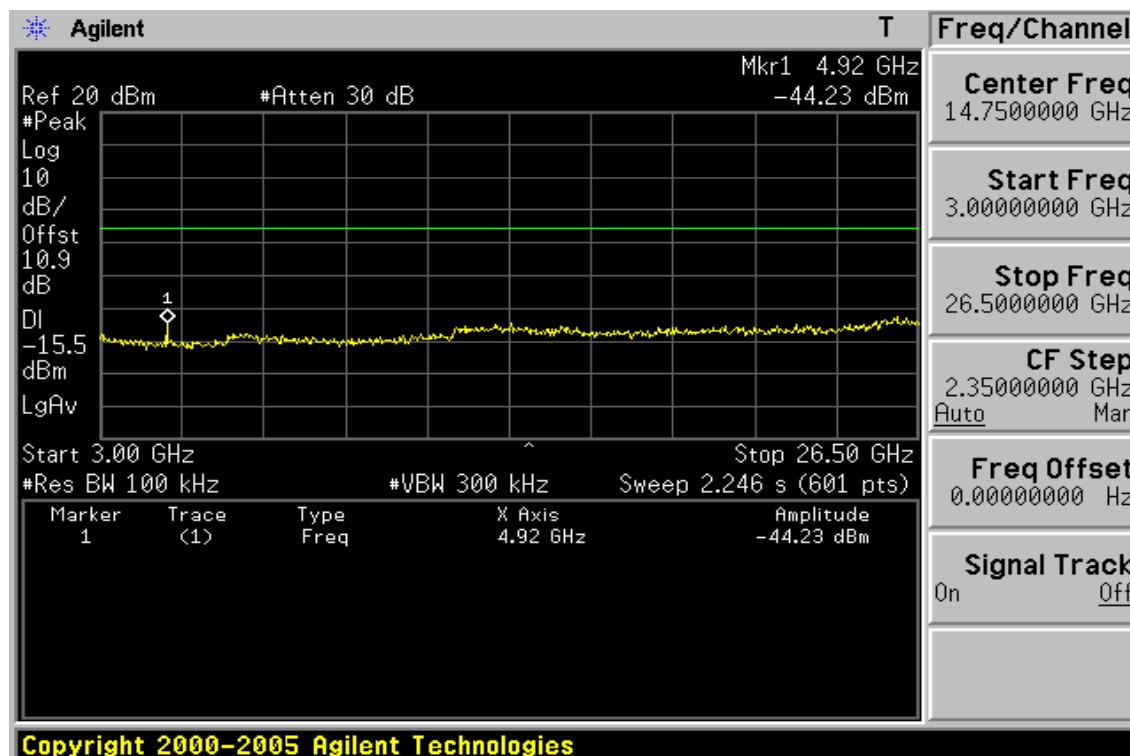
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



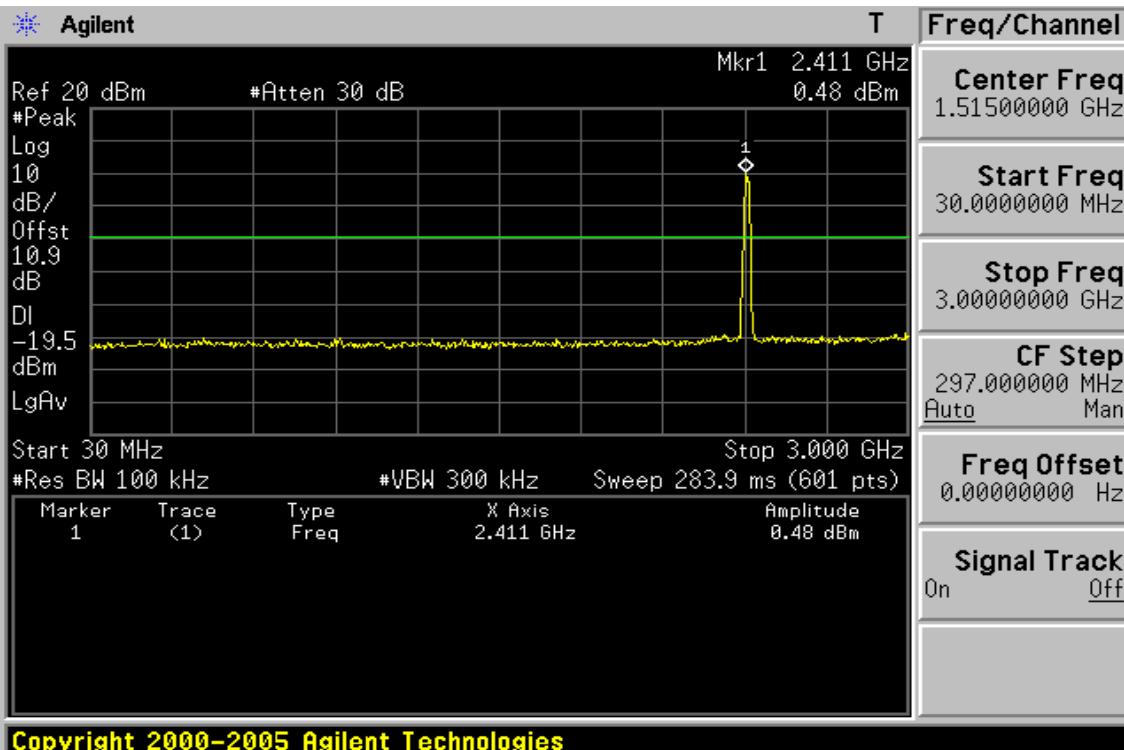
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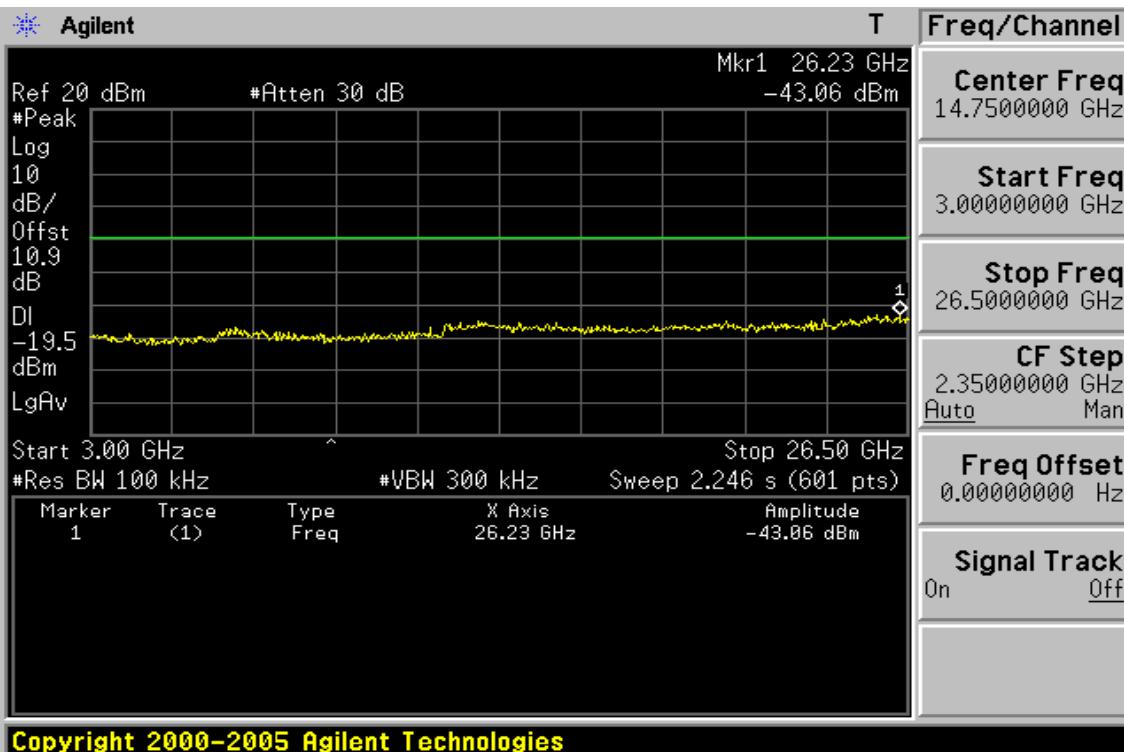
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Conducted Spurious Emission Measurement Result (802.11g)

Ch Low 30MHz – 3GHz



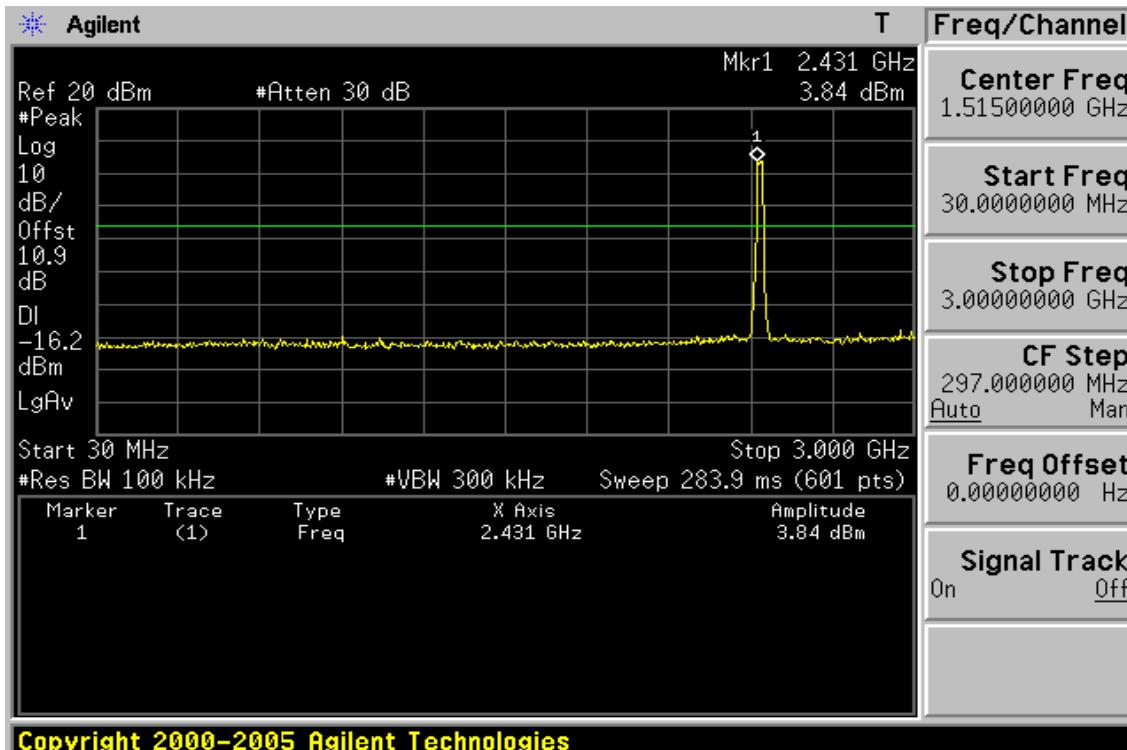
Ch Low 3GHz – 26.5GHz



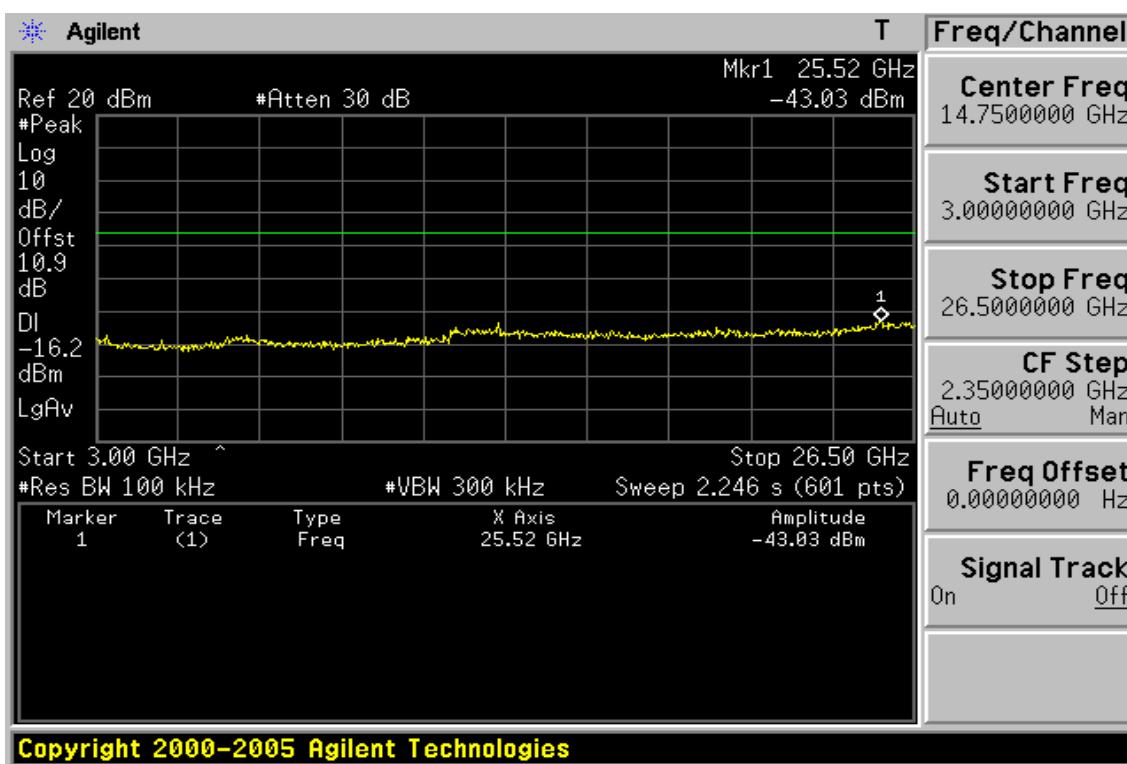
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Ch Mid 30MHz – 3GHz



Ch Mid 3GHz – 26.5GHz

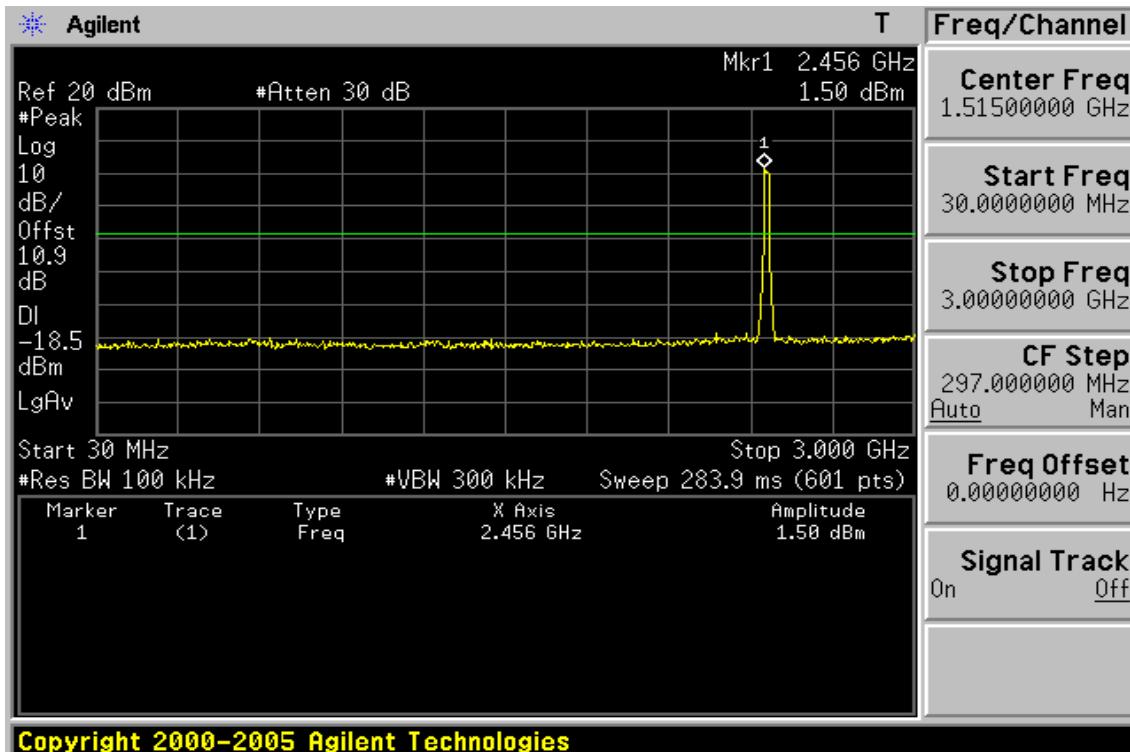


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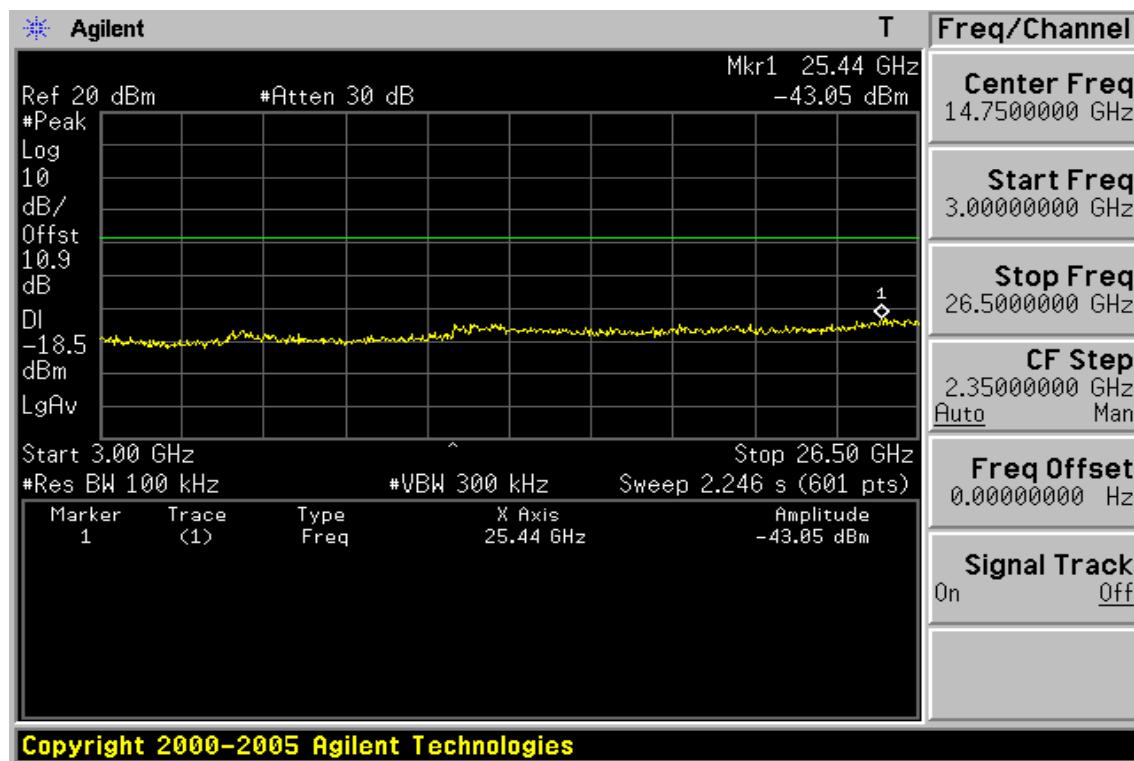
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Ch High 30MHz – 3GHz



Ch High 3GHz – 26.5GHz



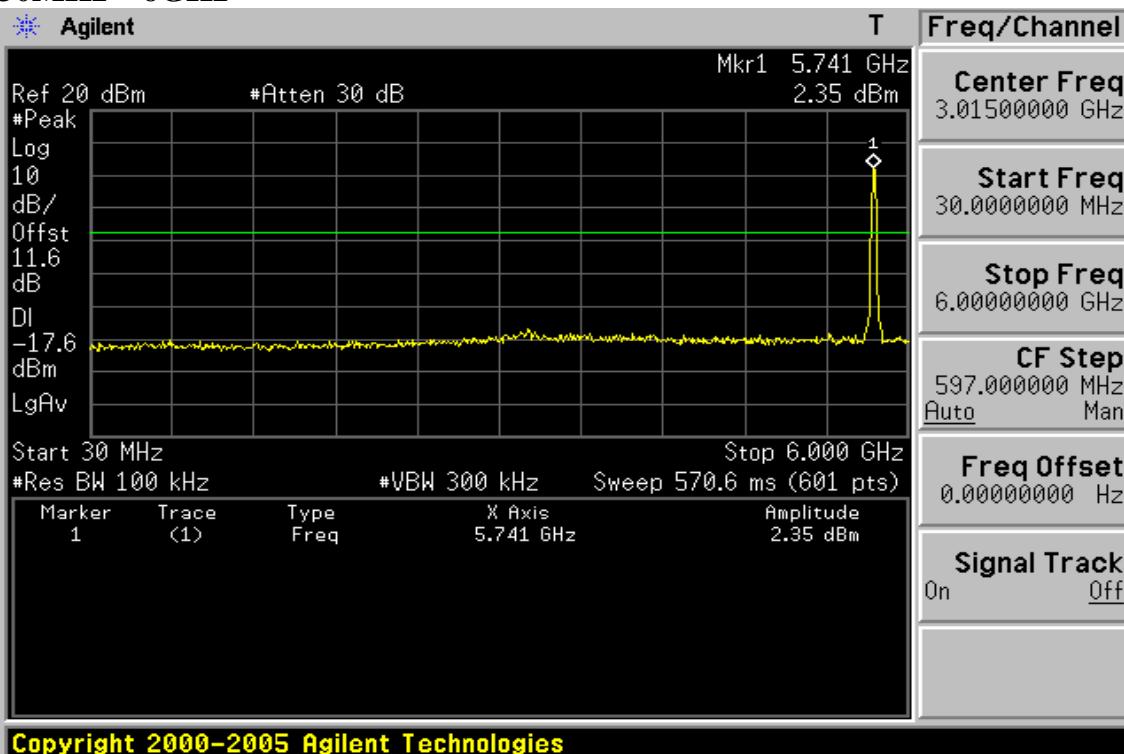
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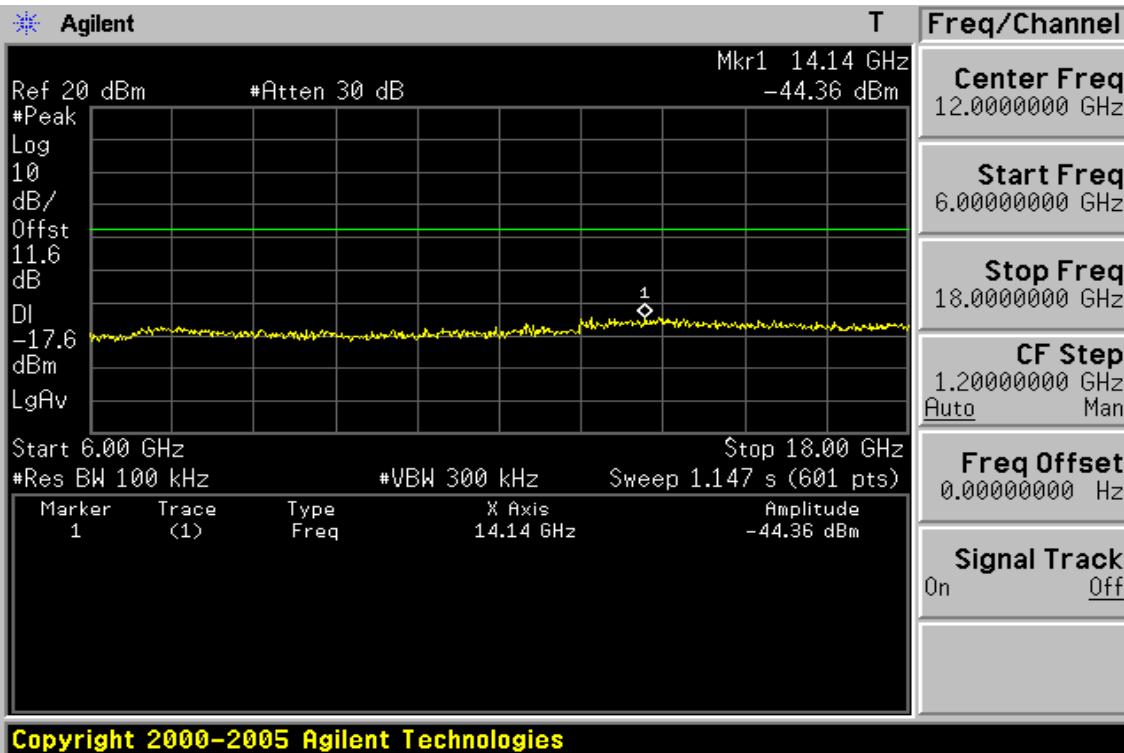
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Conducted Spurious Emission Measurement Result (802.11a)

Ch Low 30MHz – 6GHz



Ch Low 6GHz – 18GHz

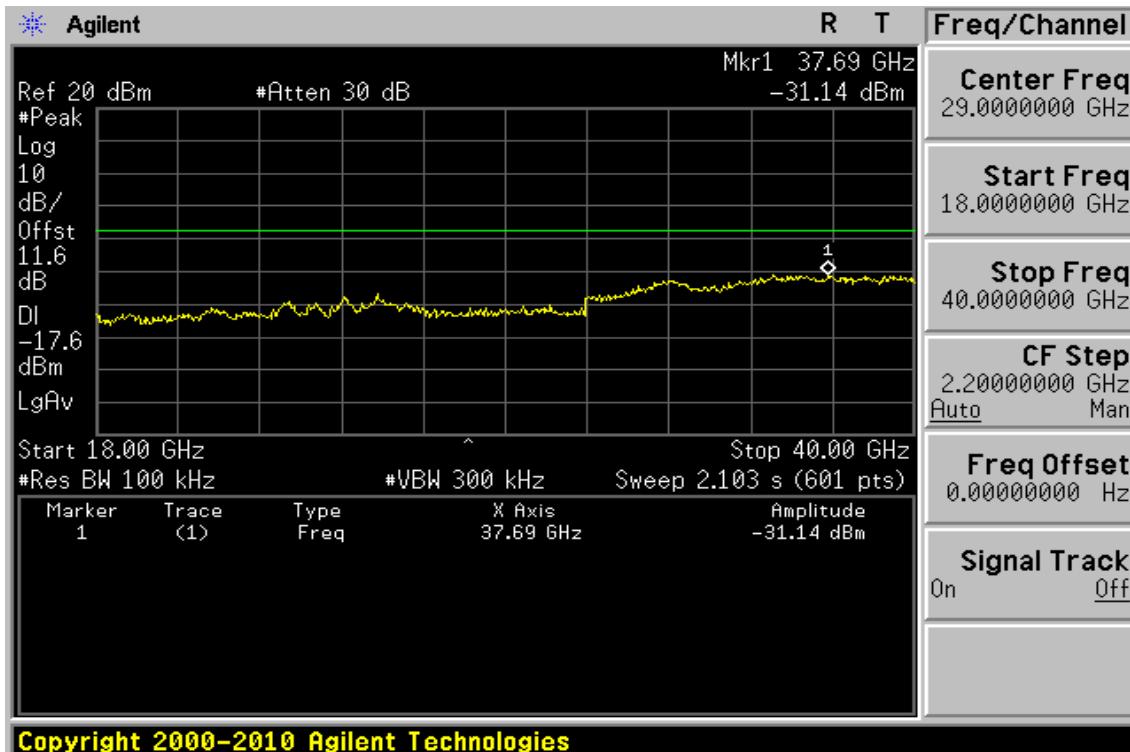


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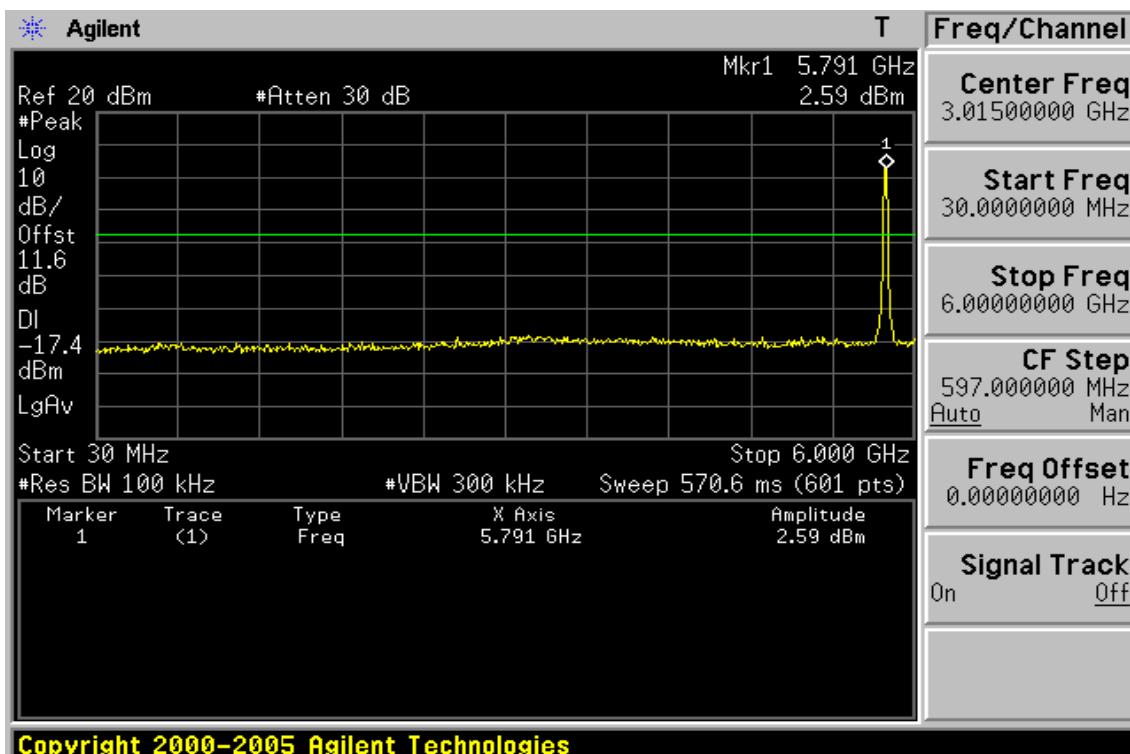
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Ch Low 18GHz – 40GHz



Ch Mid 30MHz – 6GHz

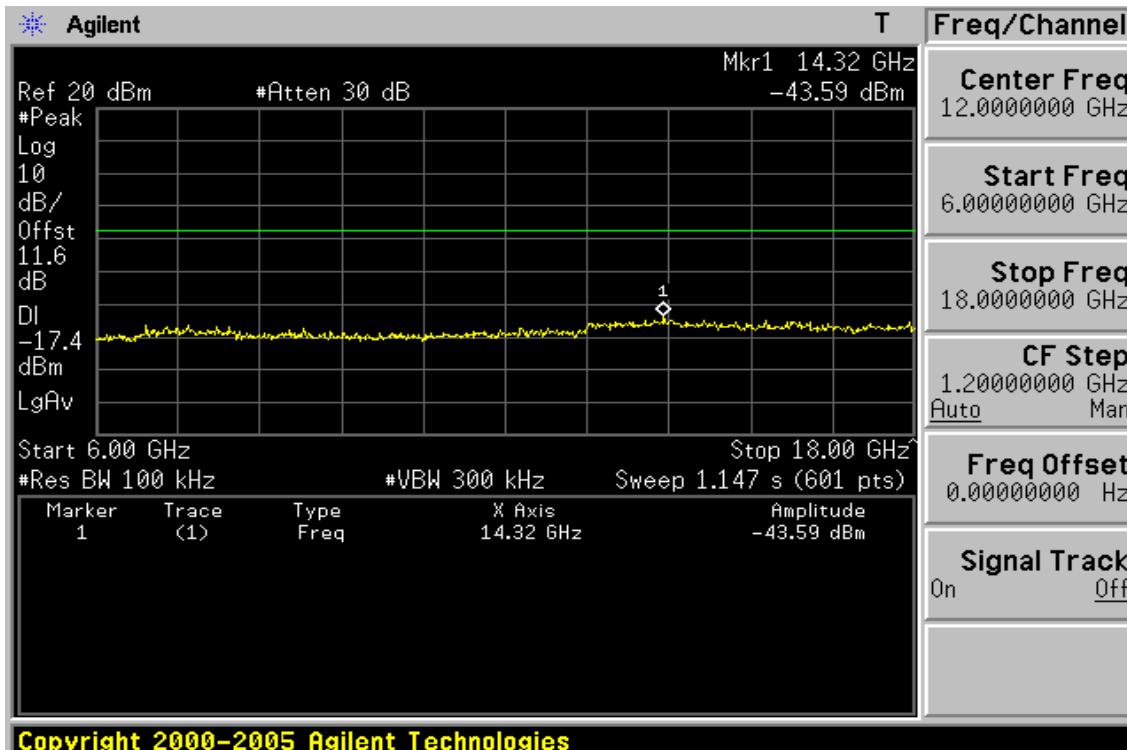


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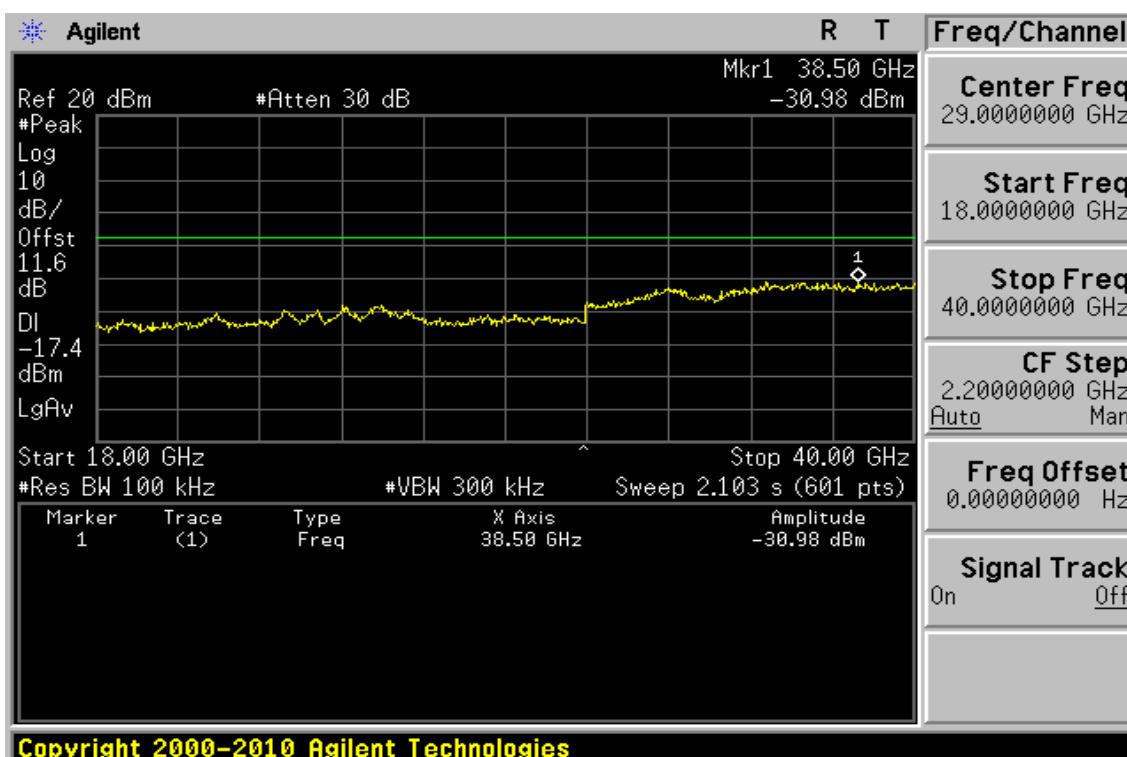
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Ch Mid 6GHz – 18GHz



Ch Mid 18GHz – 40GHz

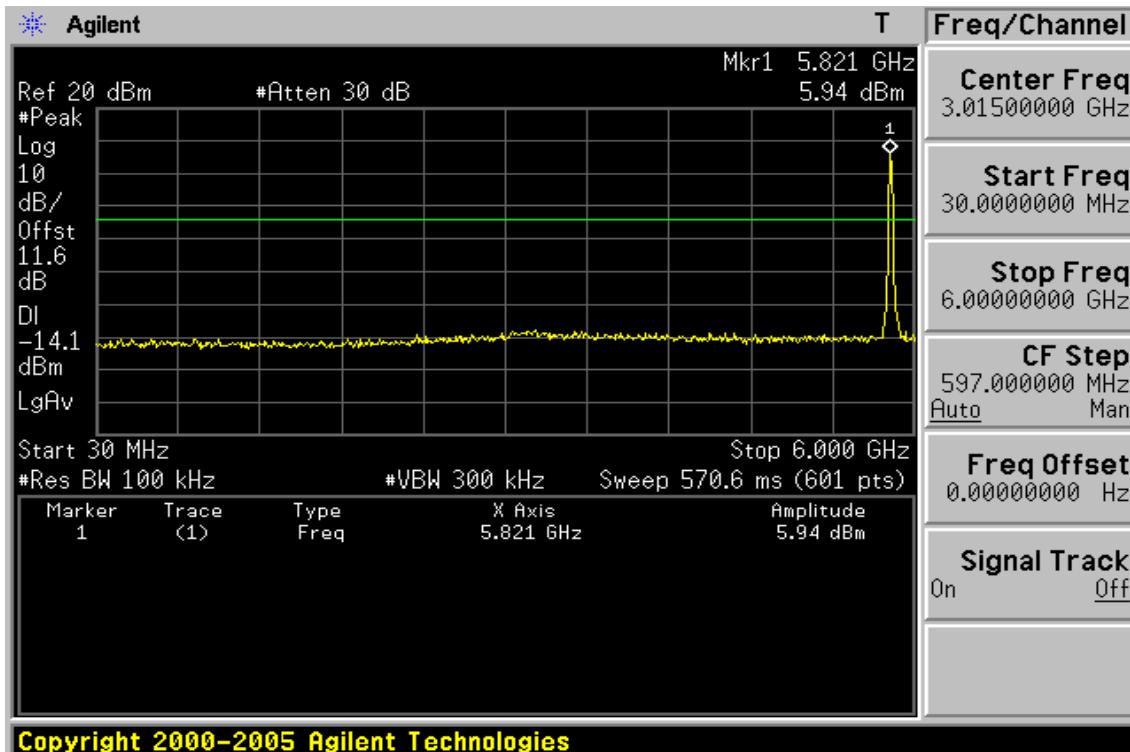


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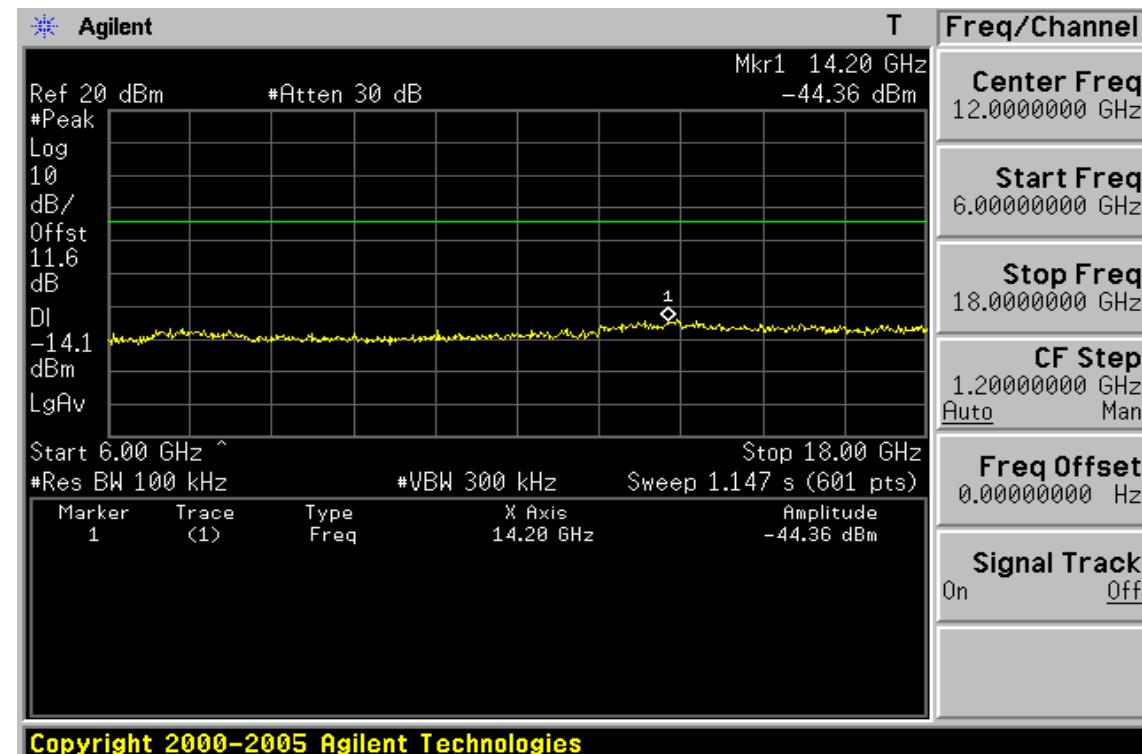
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Ch High 30MHz – 6GHz



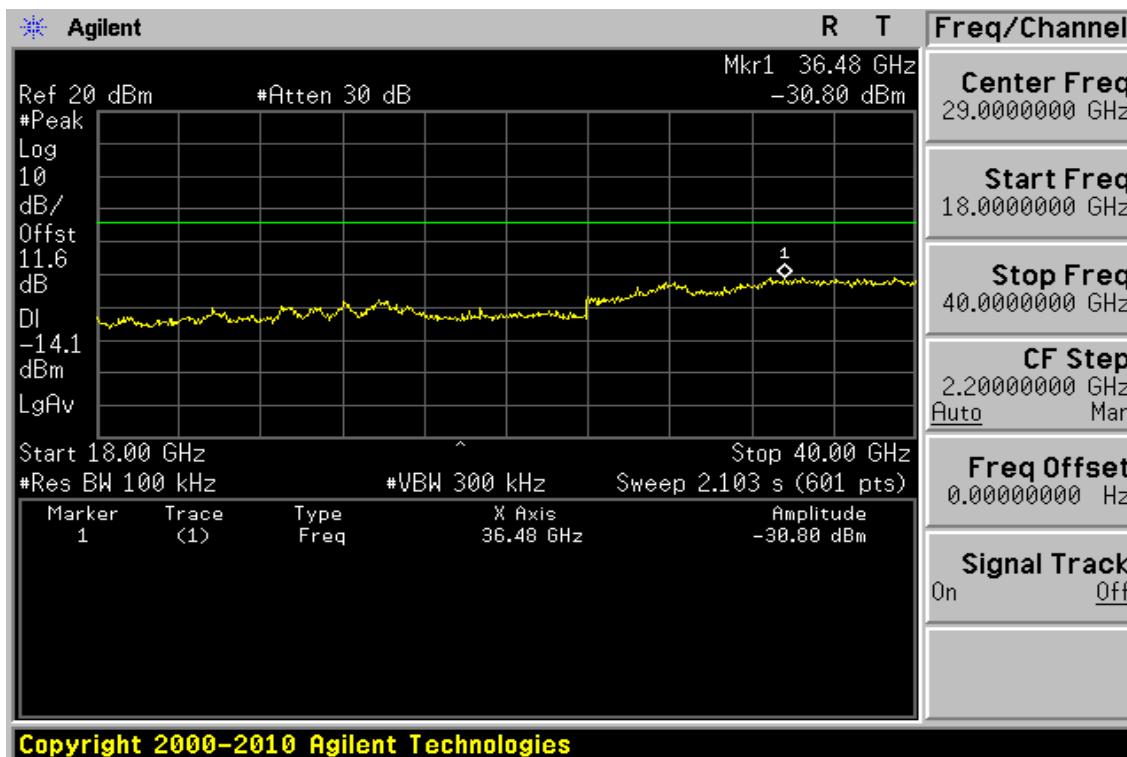
Ch High 6GHz – 18GHz



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Ch High 18GHz – 40GHz

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

Operation Band	:802.11b	Test Date	:2012-10-26
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Allen
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/m	dB
47.46	S	Peak	49.04	-13.85	35.19	40.00	-4.81
72.68	S	Peak	49.39	-16.83	32.56	40.00	-7.44
153.19	S	Peak	45.86	-12.32	33.54	43.50	-9.96
366.59	S	Peak	37.91	-11.48	26.43	46.00	-19.57
564.47	S	Peak	37.01	-8.28	28.73	46.00	-17.27
966.05	S	Peak	32.60	-2.03	30.57	54.00	-23.43
4824.00	H	Average	44.95	7.06	52.01	54.00	-1.99
4824.00	H	Peak	45.46	7.06	52.52	74.00	-21.48
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
 Fundamental Frequency :2412 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan

Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
95.96	S	Peak	44.14	-17.13	27.01	43.50	-16.49	
183.26	S	Peak	48.27	-14.89	33.38	43.50	-10.12	
366.59	S	Peak	43.12	-11.48	31.64	46.00	-14.36	
576.11	S	Peak	39.29	-8.08	31.21	46.00	-14.79	
798.24	S	Peak	37.08	-4.22	32.86	46.00	-13.14	
962.17	S	Peak	31.83	-2.05	29.78	54.00	-24.22	
4824.00	H	Average	34.25	7.07	41.32	54.00	-12.68	
4824.00	H	Peak	39.44	7.07	46.51	74.00	-27.49	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
47.46	S	Peak	49.09	-13.85	35.24	40.00	-4.76	
71.71	S	Peak	49.62	-16.69	32.93	40.00	-7.07	
151.25	S	Peak	44.82	-12.34	32.48	43.50	-11.02	
564.47	S	Peak	37.42	-8.28	29.14	46.00	-16.86	
699.30	S	Peak	34.19	-5.76	28.43	46.00	-17.57	
995.15	S	Peak	32.02	-1.87	30.15	54.00	-23.85	
4874.00	H	Average	45.12	7.13	52.25	54.00	-1.75	
4874.00	H	Peak	46.42	7.13	53.55	74.00	-20.45	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
							@3m dB μ V/m	
134.76	S	Peak	39.65	-13.50	26.15	43.50	43.50	-17.35
183.26	S	Peak	47.53	-14.89	32.64	43.50	43.50	-10.86
298.69	S	Peak	43.14	-12.60	30.54	46.00	46.00	-15.46
366.59	S	Peak	43.71	-11.48	32.23	46.00	46.00	-13.77
699.30	S	Peak	36.32	-5.76	30.56	46.00	46.00	-15.44
934.04	S	Peak	32.57	-2.25	30.32	46.00	46.00	-15.68
4874.00	H	Average	35.32	7.08	42.40	54.00	54.00	-11.60
4874.00	H	Peak	39.57	7.08	46.65	74.00	74.00	-27.35
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
							@3m dB μ V/m	
47.46	S	Peak	47.93	-13.85	34.08	40.00		-5.92
156.10	S	Peak	43.59	-12.30	31.29	43.50		-12.21
191.99	S	Peak	46.07	-15.76	30.31	43.50		-13.19
366.59	S	Peak	38.18	-11.48	26.70	46.00		-19.30
564.47	S	Peak	36.48	-8.28	28.20	46.00		-17.80
995.15	S	Peak	31.83	-1.87	29.96	54.00		-24.04
4924.00	H	Average	41.96	7.18	49.14	54.00		-4.86
4924.00	H	Peak	43.17	7.18	50.35	74.00		-23.65
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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Operation Band :802.11b
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
183.26	S	Peak	48.35	-14.89	33.46	43.50	-10.04	
366.59	S	Peak	43.47	-11.48	31.99	46.00	-14.01	
630.43	S	Peak	36.25	-6.92	29.33	46.00	-16.67	
699.30	S	Peak	36.68	-5.76	30.92	46.00	-15.08	
763.32	S	Peak	35.49	-4.74	30.75	46.00	-15.25	
966.05	S	Peak	33.24	-2.03	31.21	54.00	-22.79	
4924.00	H	Average	36.85	7.07	43.92	54.00	-10.08	
4924.00	H	Peak	40.01	7.07	47.08	74.00	-26.92	
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) (Internal Antenna)

Operation Band	:802.11g	Test Date	:2012-10-26
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Allen
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/m	dB
32.91	S	Peak	48.49	-14.24	34.25	40.00	-5.75
47.46	S	Peak	47.65	-13.85	33.80	40.00	-6.20
191.99	S	Peak	47.61	-15.76	31.85	43.50	-11.65
366.59	S	Peak	38.33	-11.48	26.85	46.00	-19.15
699.30	S	Peak	33.92	-5.76	28.16	46.00	-17.84
996.12	S	Peak	31.98	-1.87	30.11	54.00	-23.89
4824.00	H	Average	31.25	7.06	38.31	54.00	-15.69
4824.00	H	Peak	40.62	7.06	47.68	74.00	-26.32
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
 Fundamental Frequency :2412 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan

Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
181.32	S	Peak	47.53	-14.68	32.85	43.50	-10.65	
298.69	S	Peak	43.07	-12.60	30.47	46.00	-15.53	
366.59	S	Peak	43.52	-11.48	32.04	46.00	-13.96	
633.34	S	Peak	36.04	-6.89	29.15	46.00	-16.85	
798.24	S	Peak	36.85	-4.22	32.63	46.00	-13.37	
962.17	S	Peak	31.88	-2.05	29.83	54.00	-24.17	
4824.00	H	Average	26.85	7.07	33.92	54.00	-20.08	
4824.00	H	Peak	37.67	7.07	44.74	74.00	-29.26	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
32.91	S	Peak	48.92	-14.24	34.68	40.00	-5.32	
153.19	S	Peak	45.75	-12.32	33.43	43.50	-10.07	
191.99	S	Peak	47.52	-15.76	31.76	43.50	-11.74	
270.56	S	Peak	44.44	-13.34	31.10	46.00	-14.90	
699.30	S	Peak	34.01	-5.76	28.25	46.00	-17.75	
995.15	S	Peak	32.05	-1.87	30.18	54.00	-23.82	
4874.00	H	Average	33.12	7.13	40.25	54.00	-13.75	
4874.00	H	Peak	41.40	7.13	48.53	74.00	-25.47	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan

Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
181.32	S	Peak	48.14	-14.68	33.46	43.50	-10.04	
272.50	S	Peak	48.11	-13.28	34.83	46.00	-11.17	
364.65	S	Peak	43.09	-11.50	31.59	46.00	-14.41	
577.08	S	Peak	37.91	-8.05	29.86	46.00	-16.14	
699.30	S	Peak	36.71	-5.76	30.95	46.00	-15.05	
962.17	S	Peak	32.17	-2.05	30.12	54.00	-23.88	
4874.00	H	Average	26.85	7.08	33.93	54.00	-20.07	
4874.00	H	Peak	37.28	7.08	44.36	74.00	-29.64	
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
						FS dB μ V/m	@3m dB μ V/m	
48.43	S	Peak	47.73	-13.88	33.85	40.00	40.00	-6.15
71.71	S	Peak	49.74	-16.69	33.05	40.00	40.00	-6.95
152.22	S	Peak	44.85	-12.32	32.53	43.50	43.50	-10.97
272.50	S	Peak	44.01	-13.28	30.73	46.00	46.00	-15.27
566.41	S	Peak	36.46	-8.25	28.21	46.00	46.00	-17.79
966.05	S	Peak	31.79	-2.03	29.76	54.00	54.00	-24.24
4924.00	H	Average	29.65	7.18	36.83	54.00	54.00	-17.17
4924.00	H	Peak	39.56	7.18	46.74	74.00	74.00	-27.26
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
						FS dB μ V/m	@3m dB μ V/m	
134.76	S	Peak	40.57	-13.50	27.07	43.50	43.50	-16.43
184.23	S	Peak	48.71	-15.00	33.71	43.50	43.50	-9.79
273.47	S	Peak	48.13	-13.25	34.88	46.00	46.00	-11.12
364.65	S	Peak	42.98	-11.50	31.48	46.00	46.00	-14.52
797.27	S	Peak	36.47	-4.24	32.23	46.00	46.00	-13.77
962.17	S	Peak	31.29	-2.05	29.24	54.00	54.00	-24.76
4924.00	H	Average	26.53	7.07	33.60	54.00	54.00	-20.40
4924.00	H	Peak	37.76	7.07	44.83	74.00	74.00	-29.17
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 (802.11a) (Internal Antenna)

Operation Band :802.11a Test Date :2012-10-26
 Fundamental Frequency :5745 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Aken
 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		Margin dB
					FS dB μ V/m	@3m dB μ V/m	
47.46	S	Peak	48.70	-13.85	34.85	40.00	-5.15
71.71	S	Peak	49.19	-16.69	32.50	40.00	-7.50
151.25	S	Peak	44.97	-12.34	32.63	43.50	-10.87
191.99	S	Peak	48.43	-15.76	32.67	43.50	-10.83
696.39	S	Peak	35.43	-5.79	29.64	46.00	-16.36
966.05	S	Peak	31.30	-2.03	29.27	54.00	-24.73
11490.00	H	Peak	19.04	17.60	36.64	74.00	-37.36
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5745 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Aken
 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		Margin dB
					FS dB μ V/m	@3m dB μ V/m	
182.29	S	Peak	49.01	-14.78	34.23	43.50	-9.27
272.50	S	Peak	47.56	-13.28	34.28	46.00	-11.72
366.59	S	Peak	43.45	-11.48	31.97	46.00	-14.03
630.43	S	Peak	35.56	-6.92	28.64	46.00	-17.36
766.23	S	Peak	35.35	-4.69	30.66	46.00	-15.34
962.17	S	Peak	32.04	-2.05	29.99	54.00	-24.01
11490.00	H	Peak	19.68	17.40	37.08	74.00	-36.92
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5785 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Aken
 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 dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
47.46	S	Peak	48.52	-13.85	34.67	40.00	-5.33	
71.71	S	Peak	49.22	-16.69	32.53	40.00	-7.47	
191.99	S	Peak	48.93	-15.76	33.17	43.50	-10.33	
270.56	S	Peak	44.14	-13.34	30.80	46.00	-15.20	
798.24	S	Peak	35.35	-4.22	31.13	46.00	-14.87	
962.17	S	Peak	31.85	-2.05	29.80	54.00	-24.20	
11570.00	H	Peak	20.99	17.69	38.68	74.00	-35.32	
17355.00	H	---						
23140.00	H	---						
28925.00	H	---						
34710.00	H	---						

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Operation Band :802.11a
 Fundamental Frequency :5785 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Aken
 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		Margin dB
							@3m dB μ V/m	
183.26	S	Peak	47.98	-14.89	33.09	43.50	43.50	-10.41
273.47	S	Peak	47.76	-13.25	34.51	46.00	46.00	-11.49
366.59	S	Peak	43.50	-11.48	32.02	46.00	46.00	-13.98
577.08	S	Peak	38.93	-8.05	30.88	46.00	46.00	-15.12
763.32	S	Peak	35.39	-4.74	30.65	46.00	46.00	-15.35
995.15	S	Peak	31.45	-1.87	29.58	54.00	54.00	-24.42
11570.00	H	Peak	19.99	17.49	37.48	74.00	74.00	-36.52
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 :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Aken
 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/m	dB
47.46	S	Peak	48.41	-13.85	34.56	40.00	-5.44
70.74	S	Peak	49.71	-16.55	33.16	40.00	-6.84
191.99	S	Peak	48.97	-15.76	33.21	43.50	-10.29
272.50	S	Peak	43.87	-13.28	30.59	46.00	-15.41
564.47	S	Peak	36.79	-8.28	28.51	46.00	-17.49
996.12	S	Peak	30.96	-1.87	29.09	54.00	-24.91
11650.00	H	Average	19.48	17.78	37.26	54.00	-16.74
11650.00	H	Peak	23.85	17.78	41.63	74.00	-32.37
17475.00	H	---					
23300.00	H	---					
29125.00	H	---					
34950.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5825 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Aken
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
182.29	S	Peak	47.90	-14.78	33.12	43.50	-10.38	
273.47	S	Peak	47.84	-13.25	34.59	46.00	-11.41	
335.55	S	Peak	39.27	-11.86	27.41	46.00	-18.59	
552.83	S	Peak	36.92	-8.53	28.39	46.00	-17.61	
696.39	S	Peak	37.04	-5.79	31.25	46.00	-14.75	
995.15	S	Peak	31.81	-1.87	29.94	54.00	-24.06	
11650.00	H	Peak	20.56	17.58	38.14	74.00	-35.86	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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

Operation Band :802.11b Test Date :2012-10-26
 Fundamental Frequency :2412 MHz Temp./Humi. :25.1deg_C/64RH
 Operation Mode :TX LOW Engineer :Allen
 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/m	dB
47.46	S	Peak	48.03	-13.85	34.18	40.00	-5.82
156.10	S	Peak	43.98	-12.30	31.68	43.50	-11.82
272.50	S	Peak	43.91	-13.28	30.63	46.00	-15.37
566.41	S	Peak	38.09	-8.25	29.84	46.00	-16.16
766.23	S	Peak	32.81	-4.69	28.12	46.00	-17.88
966.05	S	Peak	31.68	-2.03	29.65	54.00	-24.35
4824.00	H	Average	44.42	7.07	51.49	54.00	-2.51
4824.00	H	Peak	48.70	7.07	55.77	74.00	-18.23
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
 Fundamental Frequency :2412 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan

Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
185.20	S	Peak	47.91	-15.10	32.81	43.50	-10.69	
272.50	S	Peak	47.60	-13.28	34.32	46.00	-11.68	
384.05	S	Peak	38.13	-11.23	26.90	46.00	-19.10	
577.08	S	Peak	39.31	-8.05	31.26	46.00	-14.74	
797.27	S	Peak	39.11	-4.24	34.87	46.00	-11.13	
966.05	S	Peak	32.01	-2.03	29.98	54.00	-24.02	
4824.00	H	Average	41.49	7.08	48.57	54.00	-5.43	
4824.00	H	Peak	45.53	7.08	52.61	74.00	-21.39	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
47.46	S	Peak	48.43	-13.85	34.58	40.00	-5.42	
191.99	S	Peak	48.43	-15.76	32.67	43.50	-10.83	
271.53	S	Peak	43.94	-13.32	30.62	46.00	-15.38	
566.41	S	Peak	37.34	-8.25	29.09	46.00	-16.91	
796.30	S	Peak	35.98	-4.24	31.74	46.00	-14.26	
966.05	S	Peak	33.64	-2.03	31.61	54.00	-22.39	
4874.00	H	Average	45.84	7.14	52.98	54.00	-1.02	
4874.00	H	Peak	45.50	7.14	52.64	74.00	-21.36	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
							@3m dB μ V/m	
185.20	S	Peak	49.24	-15.10	34.14	43.50	43.50	-9.36
274.44	S	Peak	47.39	-13.21	34.18	46.00	46.00	-11.82
552.83	S	Peak	35.77	-8.53	27.24	46.00	46.00	-18.76
633.34	S	Peak	35.94	-6.89	29.05	46.00	46.00	-16.95
766.23	S	Peak	34.93	-4.69	30.24	46.00	46.00	-15.76
934.04	S	Peak	36.14	-2.25	33.89	46.00	46.00	-12.11
4874.00	H	Average	43.68	7.09	50.77	54.00	54.00	-3.23
4874.00	H	Peak	43.79	7.09	50.88	74.00	74.00	-23.12
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
							@3m dB μ V/m	
46.49	S	Peak	48.55	-13.80	34.75	40.00	-5.25	
153.19	S	Peak	45.98	-12.32	33.66	43.50	-9.84	
273.47	S	Peak	43.58	-13.25	30.33	46.00	-15.67	
566.41	S	Peak	35.74	-8.25	27.49	46.00	-18.51	
799.21	S	Peak	35.54	-4.21	31.33	46.00	-14.67	
966.05	S	Peak	30.83	-2.03	28.80	54.00	-25.20	
4924.00	H	Average	44.96	7.18	52.14	54.00	-1.86	
4924.00	H	Peak	46.20	7.18	53.38	74.00	-20.62	
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
183.26	S	Peak	47.77	-14.89	32.88	43.50	-10.62	
273.47	S	Peak	47.51	-13.25	34.26	46.00	-11.74	
630.43	S	Peak	36.01	-6.92	29.09	46.00	-16.91	
696.39	S	Peak	36.69	-5.79	30.90	46.00	-15.10	
766.23	S	Peak	35.63	-4.69	30.94	46.00	-15.06	
962.17	S	Peak	33.00	-2.05	30.95	54.00	-23.05	
4924.00	H	Average	41.96	7.08	49.04	54.00	-4.96	
4924.00	H	Peak	43.96	7.08	51.04	74.00	-22.96	
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) (External Antenna)

Operation Band	:802.11g	Test Date	:2012-10-26
Fundamental Frequency	:2412 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Allen
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/m	dB
47.46	S	Peak	49.62	-13.85	35.77	40.00	-4.23
154.16	S	Peak	44.49	-12.30	32.19	43.50	-11.31
270.56	S	Peak	43.54	-13.34	30.20	46.00	-15.80
577.08	S	Peak	37.54	-8.05	29.49	46.00	-16.51
799.21	S	Peak	31.97	-4.21	27.76	46.00	-18.24
995.15	S	Peak	32.21	-1.87	30.34	54.00	-23.66
4824.00	H	Average	31.05	7.07	38.12	54.00	-15.88
4824.00	H	Peak	43.13	7.07	50.20	74.00	-23.80
7236.00	H	---					
9648.00	H	---					
12060.00	H	---					
14472.00	H	---					
16884.00	H	---					
19296.00	H	---					
21708.00	H	---					
24120.00	H	---					

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

Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
186.17	S	Peak	48.31	-15.22	33.09	43.50	-10.41	
274.44	S	Peak	47.69	-13.21	34.48	46.00	-11.52	
364.65	S	Peak	42.83	-11.50	31.33	46.00	-14.67	
633.34	S	Peak	35.72	-6.89	28.83	46.00	-17.17	
797.27	S	Peak	35.86	-4.24	31.62	46.00	-14.38	
966.05	S	Peak	32.73	-2.03	30.70	54.00	-23.30	
4824.00	H	Average	28.83	7.08	35.91	54.00	-18.09	
4824.00	H	Peak	39.39	7.08	46.47	74.00	-27.53	
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			PK/QP/AV	Reading Level dB μ V				
47.46	S	Peak		49.19	-13.85	35.34	40.00	-4.66
191.99	S	Peak		47.26	-15.76	31.50	43.50	-12.00
272.50	S	Peak		43.84	-13.28	30.56	46.00	-15.44
566.41	S	Peak		37.23	-8.25	28.98	46.00	-17.02
763.32	S	Peak		32.30	-4.74	27.56	46.00	-18.44
995.15	S	Peak		31.99	-1.87	30.12	54.00	-23.88
4874.00	H	Average		31.74	7.14	38.88	54.00	-15.12
4874.00	H	Peak		40.30	7.14	47.44	74.00	-26.56
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
 Fundamental Frequency :2437 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
					FS dB μ V/m	@3m dB μ V/m	
183.26	S	Peak	47.77	-14.89	32.88	43.50	-10.62
273.47	S	Peak	47.58	-13.25	34.33	46.00	-11.67
552.83	S	Peak	36.67	-8.53	28.14	46.00	-17.86
799.21	S	Peak	37.98	-4.21	33.77	46.00	-12.23
934.04	S	Peak	32.67	-2.25	30.42	46.00	-15.58
995.15	S	Peak	30.48	-1.87	28.61	54.00	-25.39
4874.00	H	Average	28.21	7.09	35.30	54.00	-18.70
4874.00	H	Peak	37.85	7.09	44.94	74.00	-29.06
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 dB μ V/m	Margin dB
					FS dB μ V/m	FS dB μ V/m		
47.46	S	Peak	49.64	-13.85	35.79	40.00	-4.21	
153.19	S	Peak	44.21	-12.32	31.89	43.50	-11.61	
270.56	S	Peak	43.78	-13.34	30.44	46.00	-15.56	
566.41	S	Peak	36.79	-8.25	28.54	46.00	-17.46	
800.18	S	Peak	32.22	-4.19	28.03	46.00	-17.97	
995.15	S	Peak	31.77	-1.87	29.90	54.00	-24.10	
4924.00	H	Average	28.87	7.19	36.06	54.00	-17.94	
4924.00	H	Peak	38.86	7.19	46.05	74.00	-27.95	
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
 Fundamental Frequency :2462 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-10-26
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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
						dB μ V/m	dB
182.29	S	Peak	47.90	-14.78	33.12	43.50	-10.38
271.53	S	Peak	47.20	-13.32	33.88	46.00	-12.12
364.65	S	Peak	43.65	-11.50	32.15	46.00	-13.85
696.39	S	Peak	35.66	-5.79	29.87	46.00	-16.13
766.23	S	Peak	35.64	-4.69	30.95	46.00	-15.05
995.15	S	Peak	31.54	-1.87	29.67	54.00	-24.33
4924.00	H	Average	27.05	7.08	34.13	54.00	-19.87
4924.00	H	Peak	39.13	7.08	46.21	74.00	-27.79
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 (802.11a) (External Antenna)

Operation Band	:802.11a	Test Date	:2012-11-02
Fundamental Frequency	:5745 MHz	Temp./Humi.	:25.1deg_C/64RH
Operation Mode	:TX LOW	Engineer	:Allen
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/m	dB
73.65	S	Peak	46.88	-17.00	29.88	40.00	-10.12
153.19	S	Peak	43.71	-12.32	31.39	43.50	-12.11
191.99	S	Peak	46.99	-15.76	31.23	43.50	-12.27
270.56	S	Peak	43.79	-13.34	30.45	46.00	-15.55
577.08	S	Peak	37.20	-8.05	29.15	46.00	-16.85
966.05	S	Peak	33.03	-2.03	31.00	54.00	-23.00
11490.00	H	Peak	19.74	17.60	37.34	74.00	-36.66
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5745 MHz
 Operation Mode :TX LOW
 EUT Pol. :H Plan

Test Date :2012-11-02
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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	Margin
						dB μ V/m	dB
183.26	S	Peak	48.34	-14.89	33.45	43.50	-10.05
273.47	S	Peak	47.40	-13.25	34.15	46.00	-11.85
366.59	S	Peak	43.75	-11.48	32.27	46.00	-13.73
577.08	S	Peak	38.84	-8.05	30.79	46.00	-15.21
798.24	S	Peak	36.40	-4.22	32.18	46.00	-13.82
934.04	S	Peak	32.58	-2.25	30.33	46.00	-15.67
11490.00	H	Peak	19.03	17.40	36.43	74.00	-37.57
17235.00	H	---					
22980.00	H	---					
28725.00	H	---					
34470.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5785 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-11-02
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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	Margin
						dB μ V/m	dB
30.97	S	Peak	46.54	-14.33	32.21	40.00	-7.79
72.68	S	Peak	48.99	-16.83	32.16	40.00	-7.84
154.16	S	Peak	44.08	-12.30	31.78	43.50	-11.72
191.99	S	Peak	47.48	-15.76	31.72	43.50	-11.78
272.50	S	Peak	43.71	-13.28	30.43	46.00	-15.57
577.08	S	Peak	37.09	-8.05	29.04	46.00	-16.96
11570.00	H	Peak	19.38	17.69	37.07	74.00	-36.93
17355.00	H	---					
23140.00	H	---					
28925.00	H	---					
34710.00	H	---					

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Operation Band :802.11a
 Fundamental Frequency :5785 MHz
 Operation Mode :TX MID
 EUT Pol. :H Plan
 Test Date :2012-11-02
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
					FS dB μ V/m	@3m dB μ V/m	
183.26	S	Peak	47.15	-14.89	32.26	43.50	-11.24
273.47	S	Peak	47.34	-13.25	34.09	46.00	-11.91
366.59	S	Peak	43.37	-11.48	31.89	46.00	-14.11
577.08	S	Peak	38.56	-8.05	30.51	46.00	-15.49
796.30	S	Peak	36.93	-4.24	32.69	46.00	-13.31
934.04	S	Peak	33.22	-2.25	30.97	46.00	-15.03
11570.00	H	Peak	19.06	17.49	36.55	74.00	-37.45
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 :2012-11-02
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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		Margin dB
						FS dB μ V/m	@3m dB μ V/m	
47.46	S	Peak	46.80	-13.85	32.95	40.00	-7.05	
154.16	S	Peak	44.71	-12.30	32.41	43.50	-11.09	
191.99	S	Peak	47.01	-15.76	31.25	43.50	-12.25	
270.56	S	Peak	43.62	-13.34	30.28	46.00	-15.72	
366.59	S	Peak	39.19	-11.48	27.71	46.00	-18.29	
799.21	S	Peak	33.39	-4.21	29.18	46.00	-16.82	
11650.00	H	Peak	19.38	17.78	37.16	74.00	-36.84	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	H	---						

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Operation Band :802.11a
 Fundamental Frequency :5825 MHz
 Operation Mode :TX HIGH
 EUT Pol. :H Plan
 Test Date :2012-11-02
 Temp./Humi. :25.1deg_C/64RH
 Engineer :Allen
 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 @3m dB μ V/m	Margin dB
					PK/QP/AV	dB μ V		
182.29	S	Peak	48.51	-14.78	33.73	43.50	-9.77	
273.47	S	Peak	47.24	-13.25	33.99	46.00	-12.01	
366.59	S	Peak	43.23	-11.48	31.75	46.00	-14.25	
577.08	S	Peak	38.75	-8.05	30.70	46.00	-15.30	
763.32	S	Peak	35.34	-4.74	30.60	46.00	-15.40	
934.04	S	Peak	34.06	-2.25	31.81	46.00	-14.19	
11650.00	H	Peak	20.41	17.58	37.99	74.00	-36.01	
17475.00	H	---						
23300.00	H	---						
29125.00	H	---						
34950.00	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 8dBm 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 8dBm in any 3 kHz band during any time interval of continuous transmission or over 1.0 second if the transmission exceeds 1.0 second duration.

11.2 Measurement Equipment Used:

Refer to section 7.2 for details.

11.3 Test Set-up:

Refer to section 7.3 for details.

11.4 Measurement Procedure:

1. 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 \geq 3 kHz.
4. Set the VBW \geq 3 x 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.

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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	-9.23	15.20	-24.43	8
2437	-8.74	15.20	-23.94	8
2462	-9.02	15.20	-24.22	8

802.11g

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dBm	Level (dBm)	(dBm)
2412	-13.94	15.20	-29.14	8
2437	-9.32	15.20	-24.52	8
2462	-12.32	15.20	-27.52	8

*Offset 10.9dB

802.11a

Frequency MHz	RF Power Density	BWCF	RF Power Density	Maximum Limit
	Reading (dBm)	dBm	Level (dBm)	(dBm)
5745	-11.18	15.20	-26.38	8
5785	-12.52	15.20	-27.72	8
5825	-13.90	15.20	-29.10	8

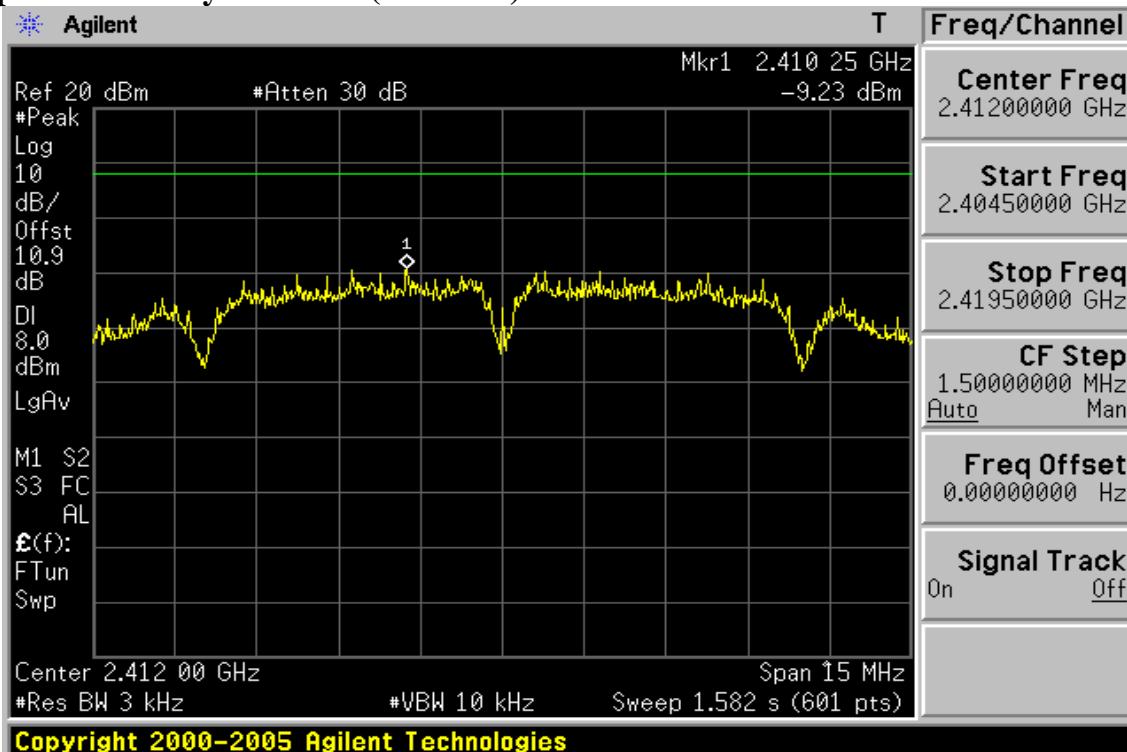
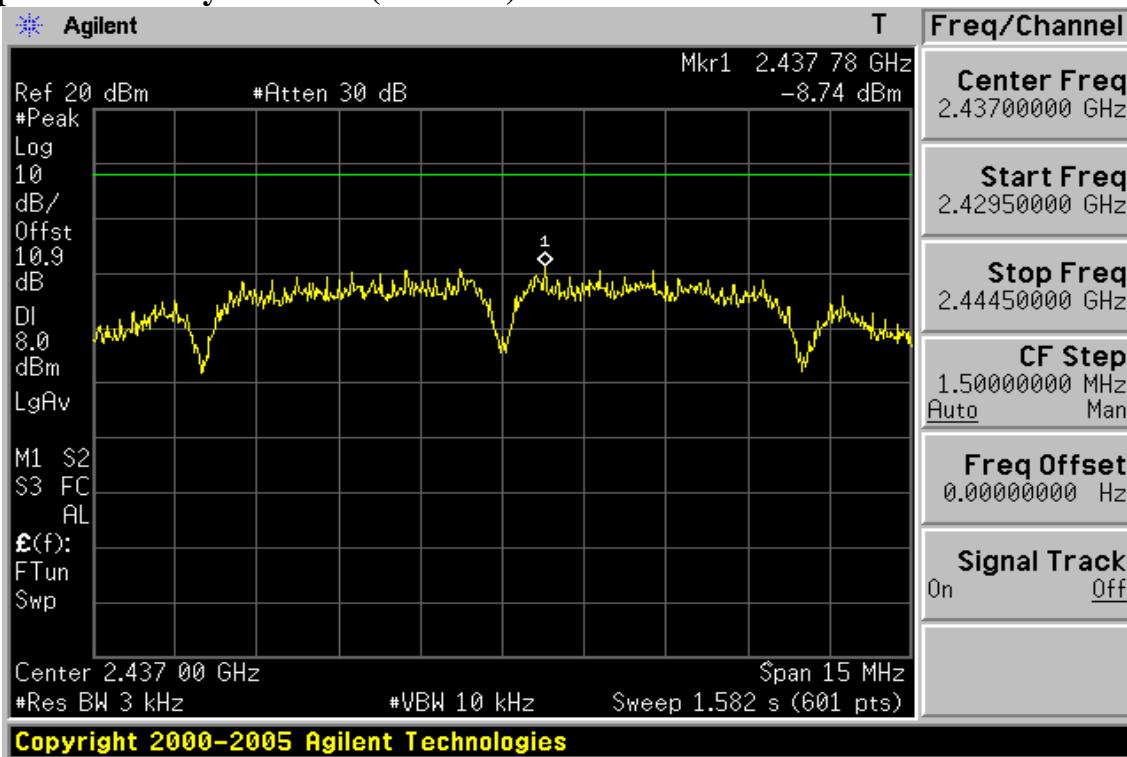
*Offset 11.4dB

Note: Refer to next page for plots.

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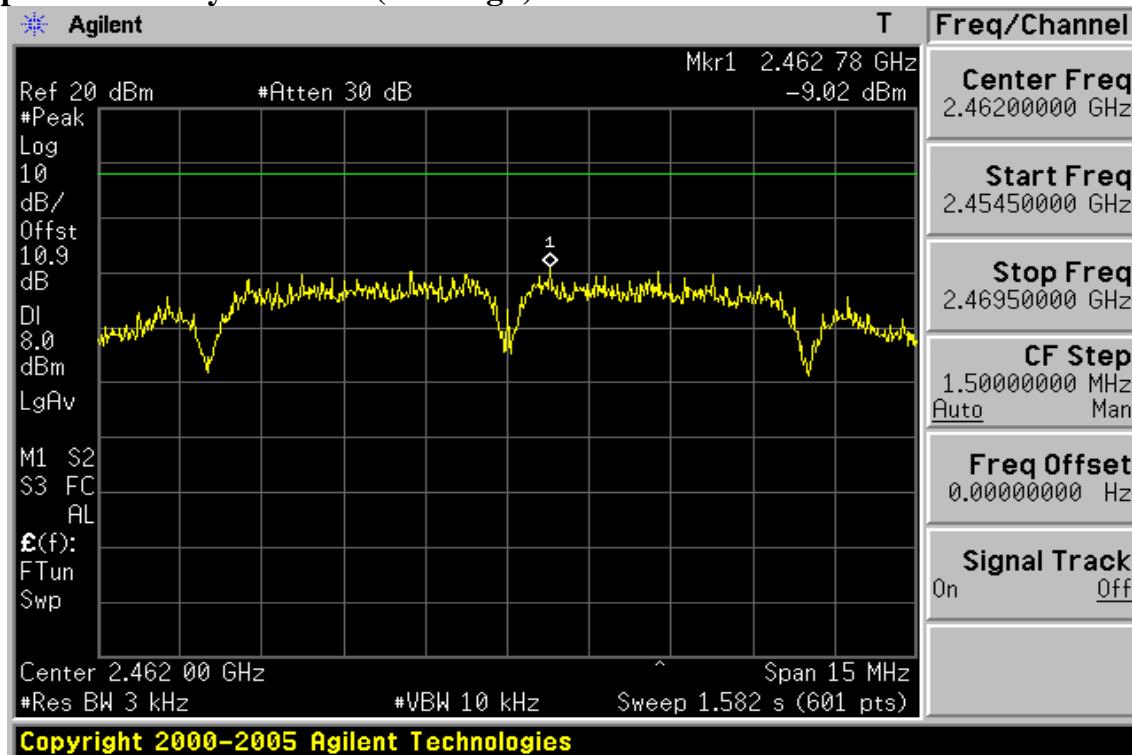
802.11b**Power Spectral Density Test Plot (CH-Low)****Power Spectral Density Test Plot (CH-Mid)**

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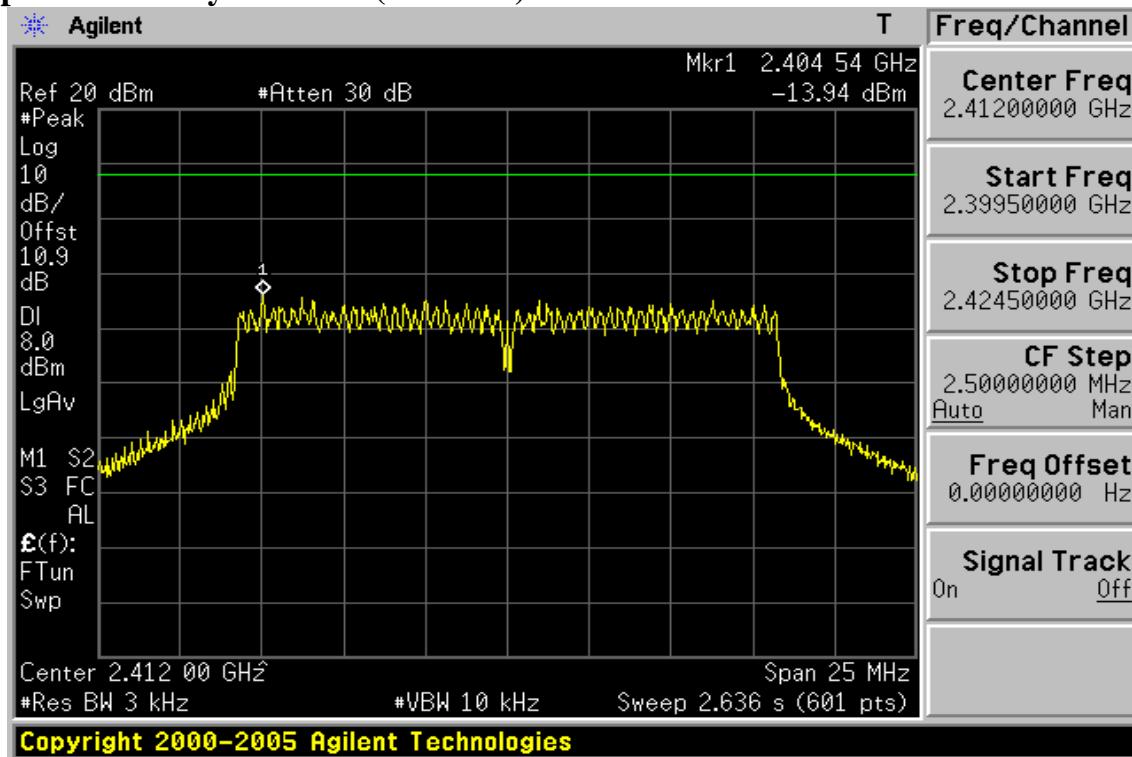
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)

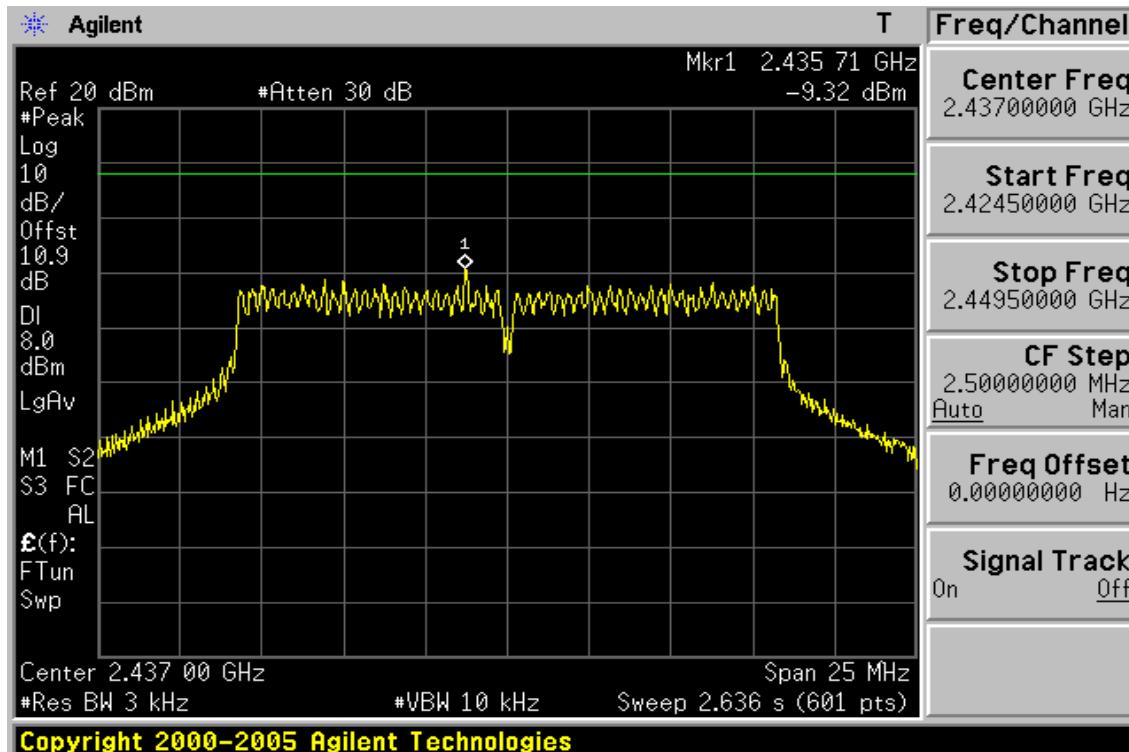


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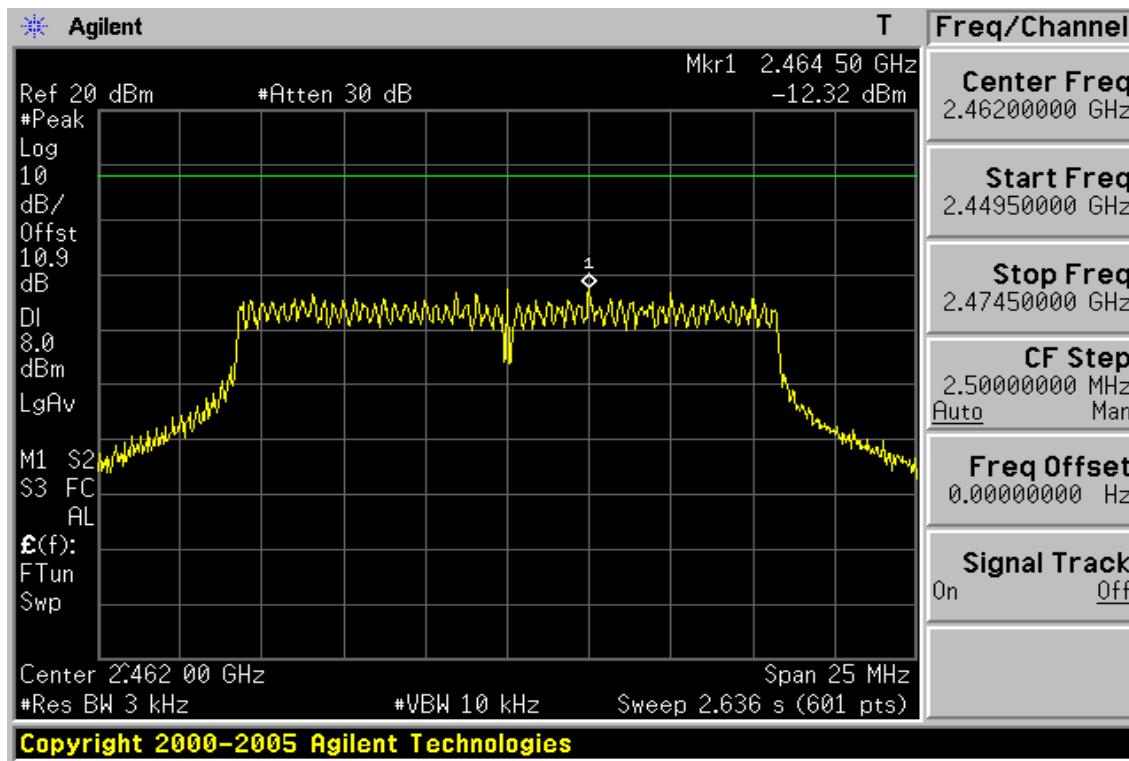
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



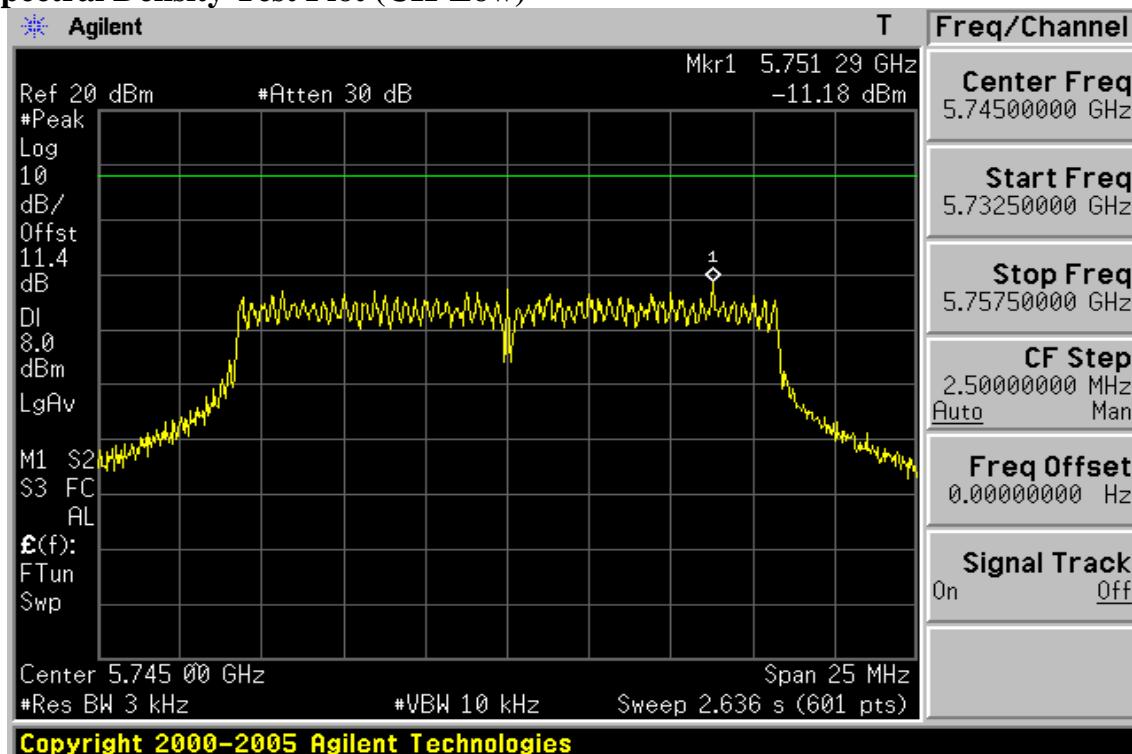
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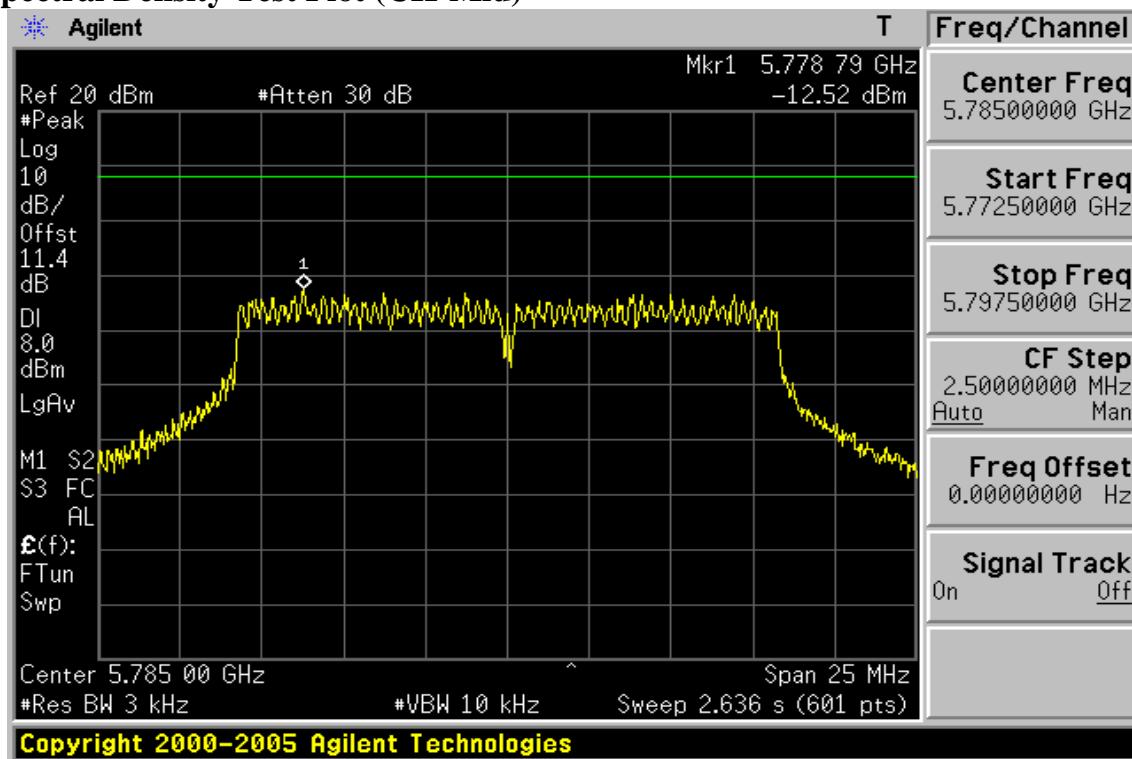
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802.11a

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

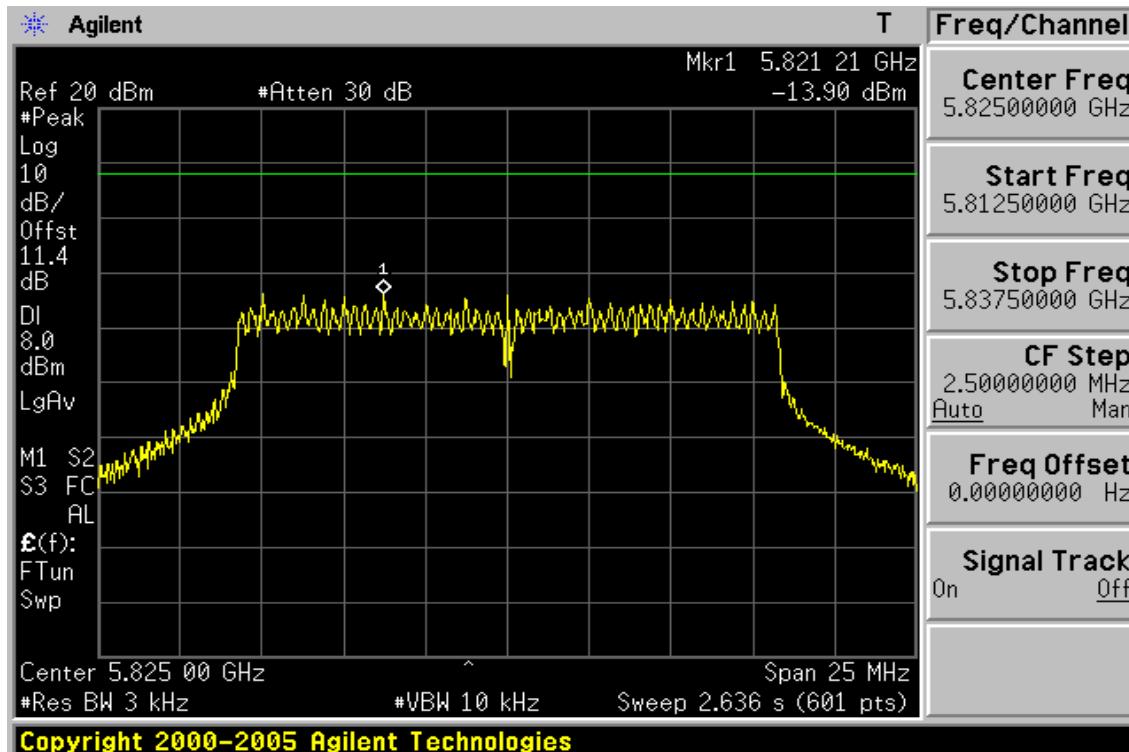


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Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

According to §15.203, Antenna requirement.

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

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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 6dBi (6dB 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 2.98dBi for 2.4GHz, 4.97dBi for 5GHz, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

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13 99% BANDWIDTH MEASUREMENT

13.1 Standard Applicable:

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

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

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

13.2 Measurement Equipment Used:

Refer to section 7.2 for details.

13.3 Test Set-up:

Refer to section 7.3 for details.

13.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=1% of the Span, VBW = 3 times RBW, Span= 30MHz.
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	15.6873
2437	15.7228
2462	15.7110

802.11g

Frequency MHz	99%Bandwidth (MHz)
2412	17.1401
2437	17.1788
2462	17.1966

802.11a

Frequency MHz	99%Bandwidth (MHz)
5745	17.0016
5785	17.0019
5825	17.0032

Note: Refer to next page for plots.

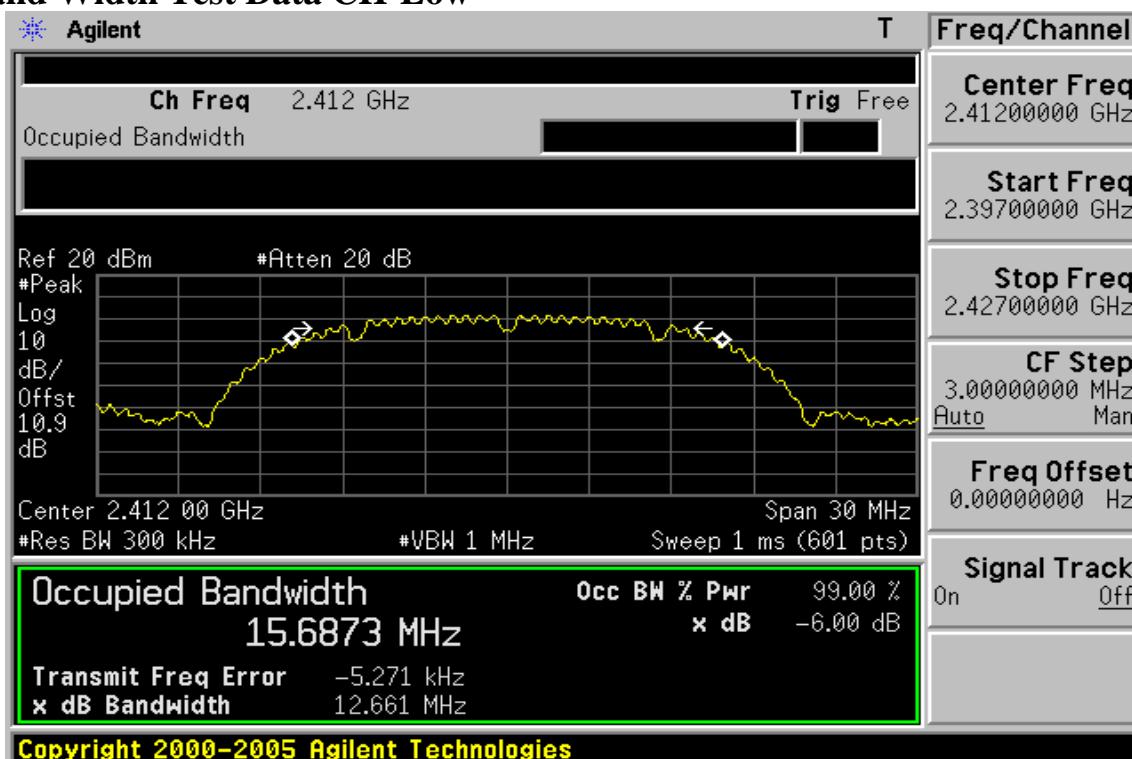
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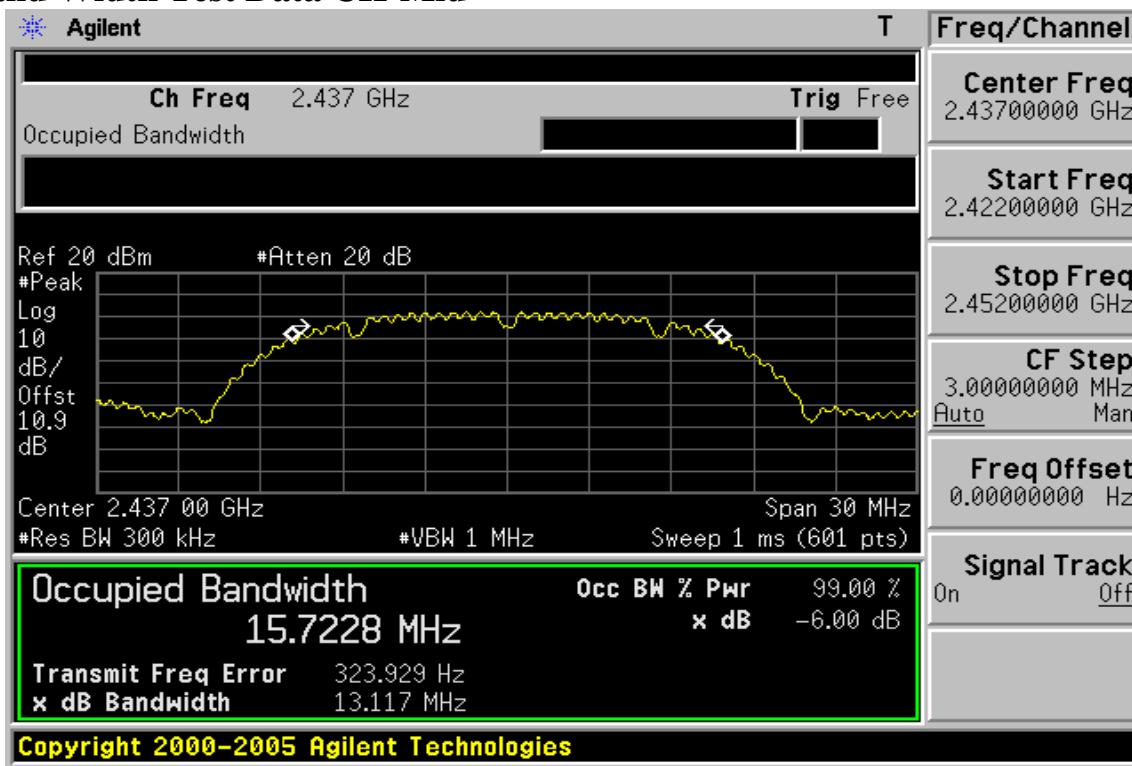
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802.11b

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid

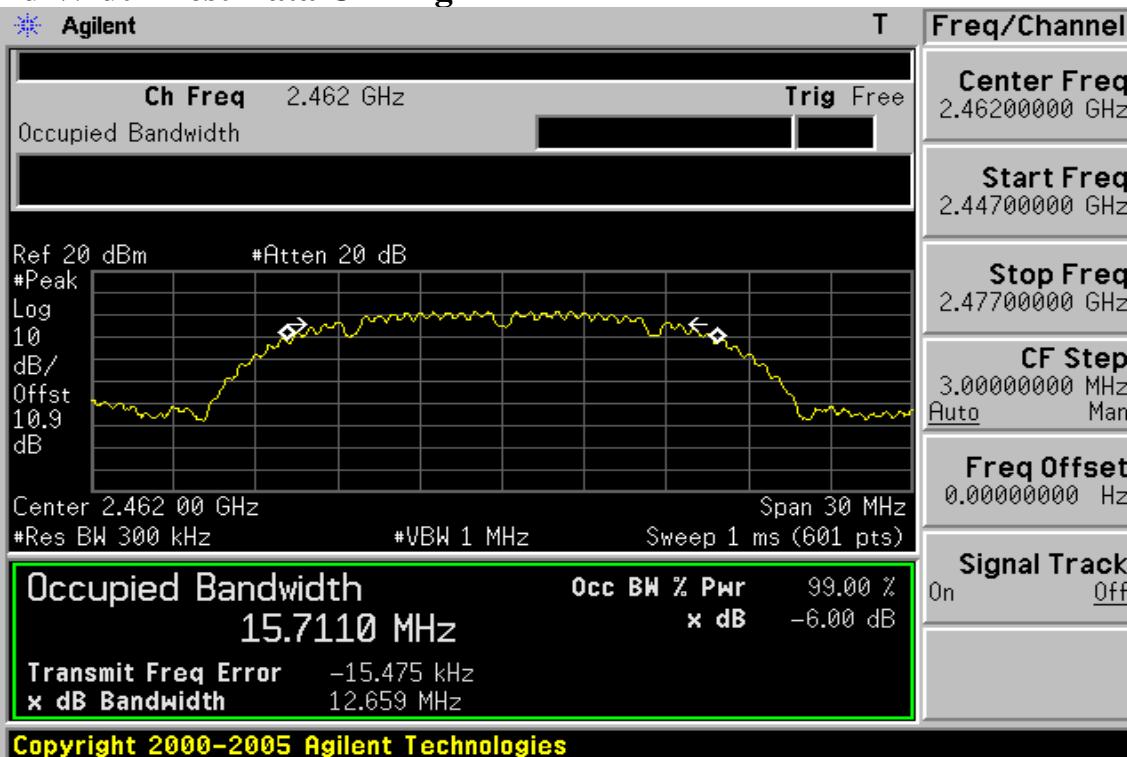


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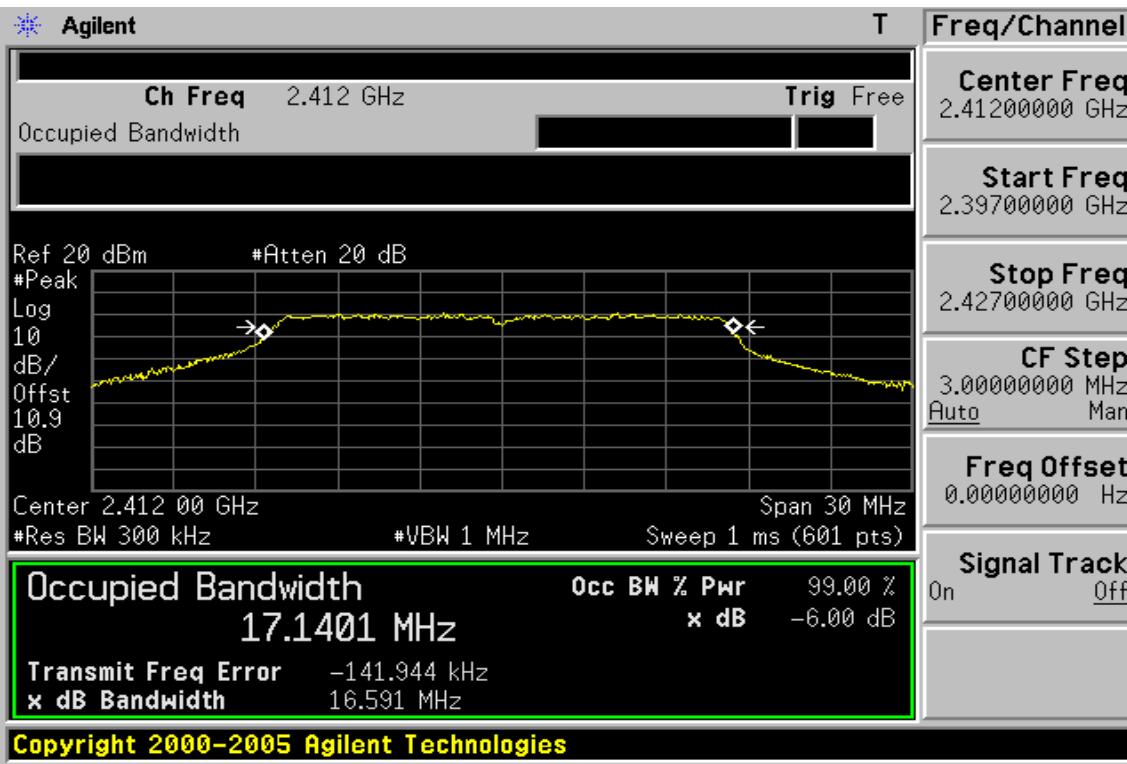
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99% Band Width Test Data CH-High



802.11g

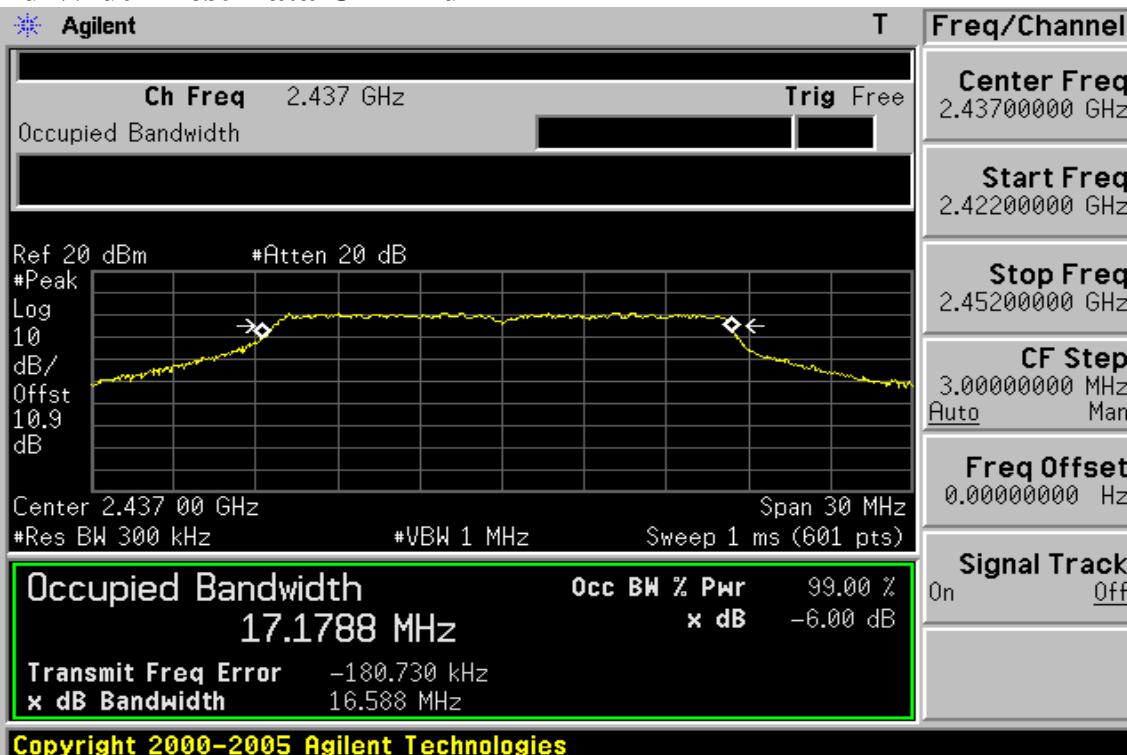
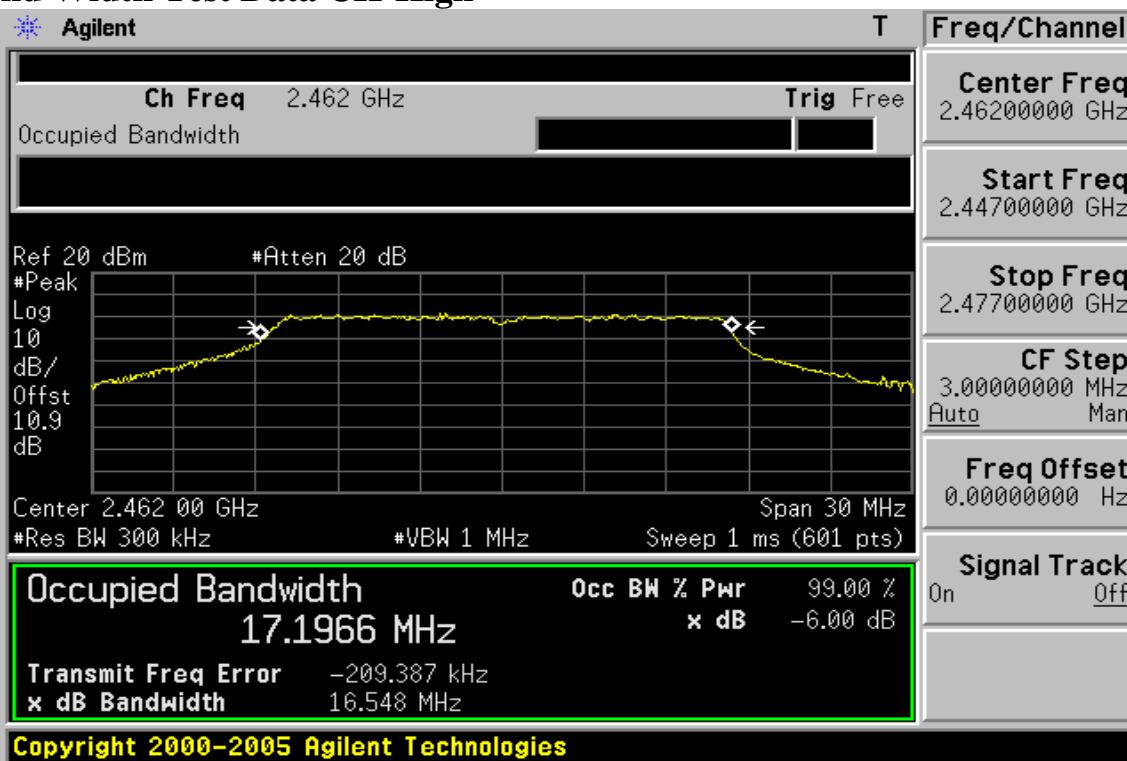
99% Band Width Test Data CH-Low



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

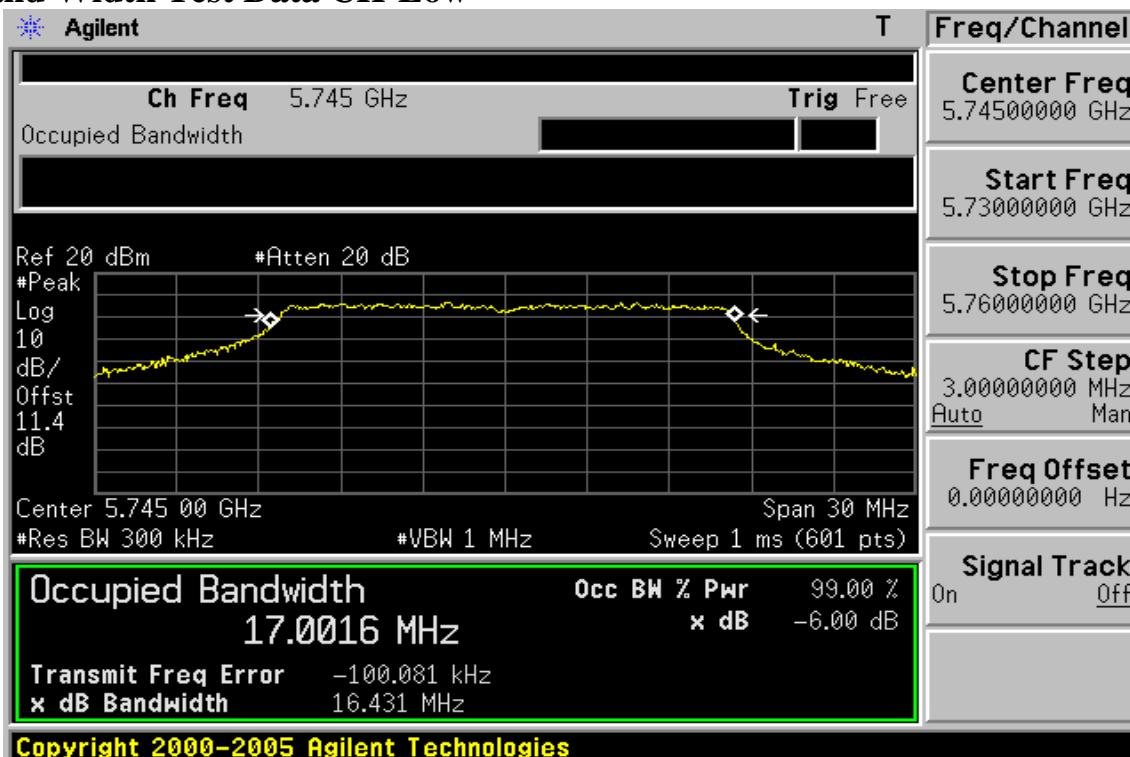
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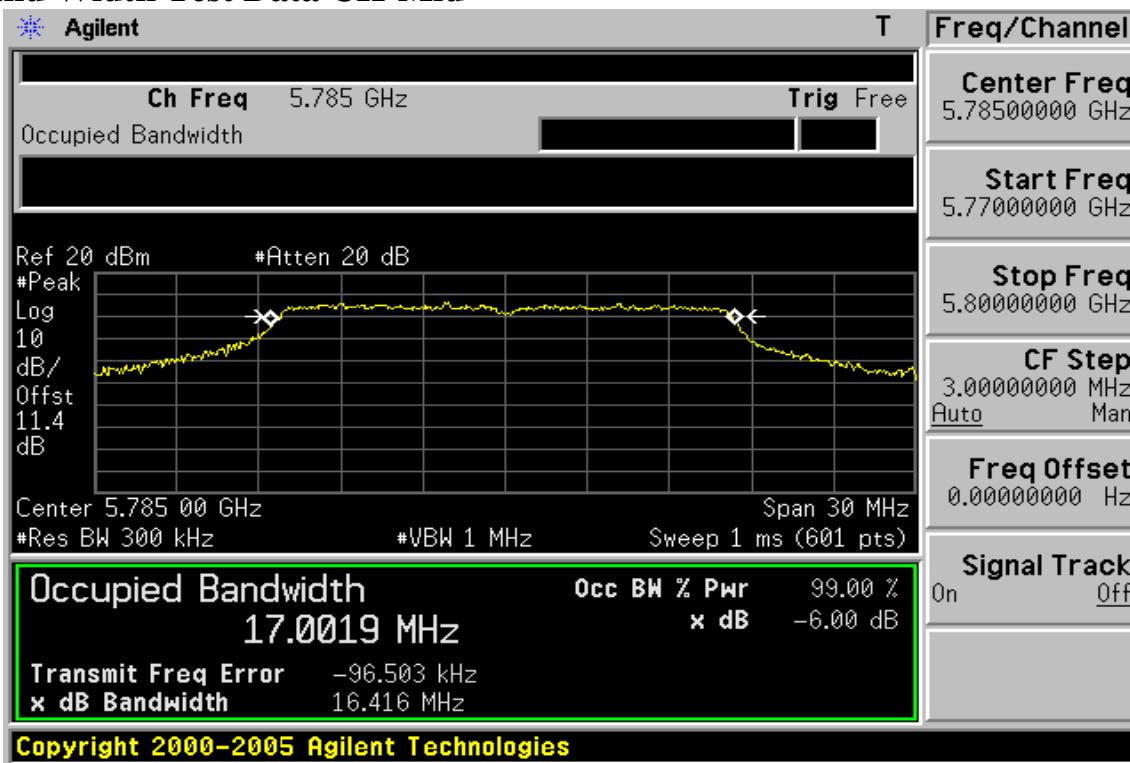
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802.11a

99% Band Width Test Data CH-Low



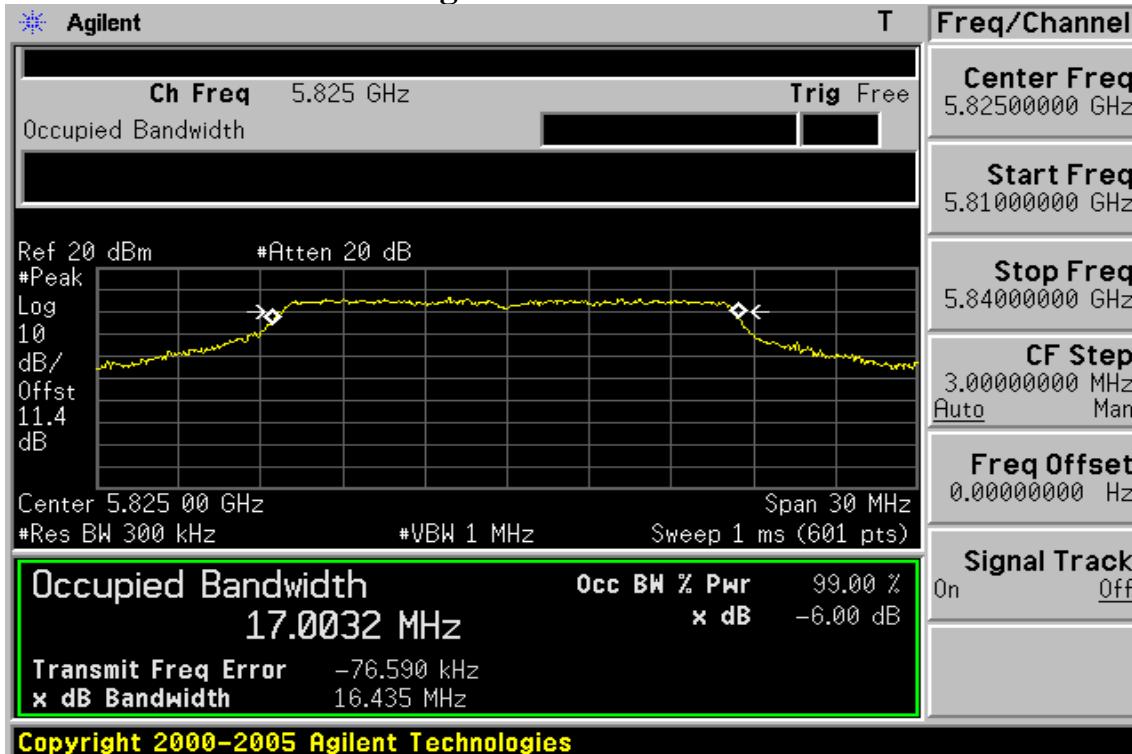
99% Band Width Test Data CH-Mid



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99% Band Width Test Data CH-High

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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

802.11b Power Table

Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	18.83	18.83	0.07638	1
2437.00	19.70	19.70	0.09333	1
2462.00	18.64	18.64	0.07311	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:	19.70	(dBm)
Maximum peak output power at antenna input terminal:	93.32543008	(mW)
Duty cycle:	100	(%)
Maximum Pav :	93.32543008	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(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)	0.036894	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.036894mW/cm². This is below the uncontrolled exposure limit of 1mW/cm² at 2437MHz.

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802.11g Power Table

Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.44	15.44	0.03500	1
2437.00	18.52	18.52	0.07112	1
2462.00	16.47	16.47	0.04436	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:	18.52	(dBm)
Maximum peak output power at antenna input terminal:	71.12135137	(mW)
Duty cycle:	100	(%)
Maximum Pav:	71.12135137	(mW)
Antenna gain (typical):	2.98	(dBi)
Maximum antenna gain:	1.986094917	(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)	0.028116	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.028116mW/cm². This is below the uncontrolled exposure limit of 1mW/cm² at 2437MHz.

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802.11a Power Table

Frequency (MHz)	Reading Power (dBm)	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	18.58	18.58	0.07211	1
5785.00	18.18	18.18	0.06577	1
5825.00	18.10	18.10	0.06457	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:	18.58	(dBm)
Maximum peak output power at antenna input terminal:	72.11074792	(mW)
Duty cycle:	100	(%)
Maximum Pav :	72.11074792	(mW)
Antenna gain (typical):	4.97	(dBi)
Maximum antenna gain:	3.140508694	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	5745	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.045077	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.045077mW/cm². This is below the uncontrolled exposure limit of 1 mW/cm² at 5745MHz.

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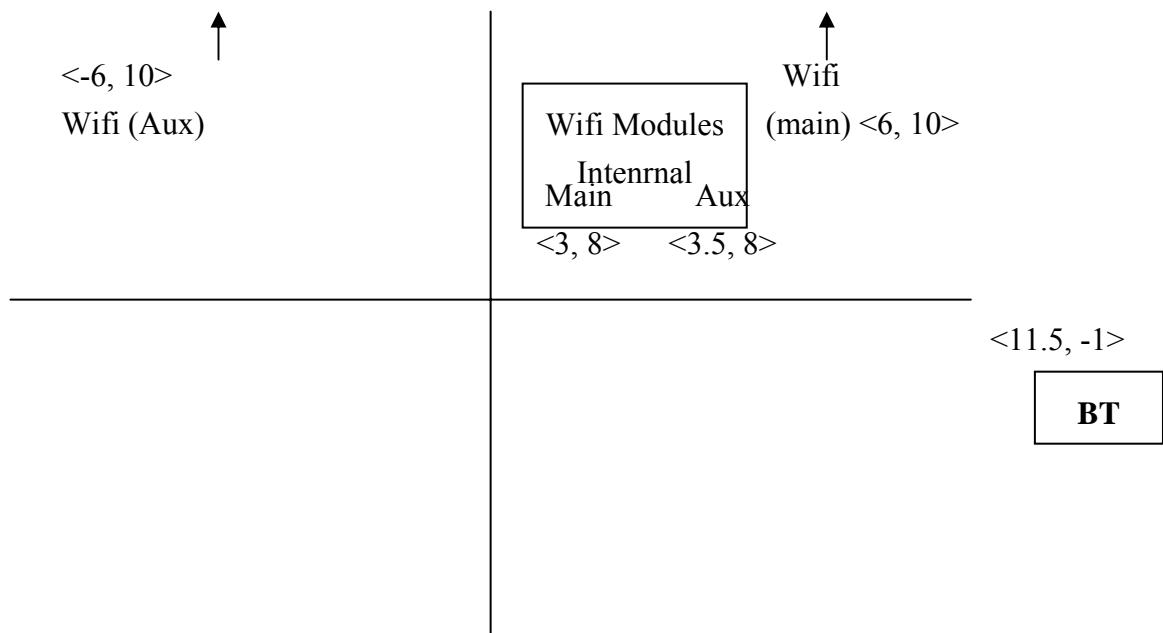
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Collocated MPE analysis:

As per KDB447498 D01, if the radio application is composed of the multiple transmitters confining in the host platform, 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 a + Bluetooth

Scenario 3:

Internal Antenna:

Wifi b or g + Bluetooth

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Scenario 4:

Internal Antenna:

Wifi a + 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 .

MPE ratio1 + MPE ratio2+MPE ratio3 <=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		2437	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	2.2	2.2	0.0
Power	(W)	0.057	0.055	0.002
Antenna Gain	dBi		2.98	1.20
EIRP	(W)	0.11	0.109	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 = 2.2/100 = 0.022 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 2:

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	%	2.1	2.0	0.0
Power	(W)	0.036	0.034	0.002
Antenna Gain	dBi		4.85	1.20
EIRP	(W)	0.10	0.103	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 = 2.1/100 = 0.021 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

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Scenario 3:

Internal Antenna:
Wifi b or g + Bluetooth

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		2437	2402
MPE Limit	mW/cm ²		1.00	1.00
Max % MPE	%	1.7	1.7	0.0
Power	(W)	0.057	0.055	0.002
Antenna Gain	dBi		1.80	1.20
EIRP	(W)	0.08	0.083	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 = 1.7/100 = 0.017 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

Scenario 4:

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	%	2.1	2.1	0.0
Power	(W)	0.036	0.034	0.002
Antenna Gain	dBi		4.97	1.20
EIRP	(W)	0.11	0.106	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 = 2.1/100 = 0.021 < 1.0, and therefore maximum MPE generated from individual transmitter can be excluded.

- End of Report -

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