

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 210 CLASS II PC REPORT

OF

Product Name: Intel WLAN radio 622ANHMW tested at HP
NB platform HSTNN-W75C

Brand Name: HEWLETT PACKARD COMPANY

Model Name: 622ANHMW

Model Difference: N/A

FCC ID: B94622ANHMW

IC: 466Q-622ANHMW

Report No.: ER/2010/10026

Issue Date: Feb. 05, 2010

FCC Rule Part: §15.247

IC Rule Part: RSS-210 issue 7:2007, Annex 8

Prepared for: Hewlett Packard Company
3000 Hanover Street
Palo Alto, USA, 94304

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial Zone,
Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Hewlett Packard Company
3000 Hanover Street Palo Alto, USA, 94304

Product Name: Intel WLAN radio 622ANHMW tested at HP NB platform
HSTNN-W75C

Brand Name: HEWLETT PACKARD COMPANY

FCC ID: B94622ANHMW

IC: 466Q-622ANHMW

Model Name of Host: HSTNN-W75C

Model No. of WLAN Modular: 622ANHMW

Model Difference: N/A

File Number: ER/2010/10026

Date of test: Jan. 21, 2010 ~ Feb. 03, 2010

Date of EUT Received: Jan. 21, 2010

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.247 and IC RSS 210 issue 7: 2007 Annex 8.

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

Test By:



Date:

Feb. 05, 2010

Sky Chang / Engineer

Prepared By:



Date:

Feb. 05, 2010

Mark Chung / Project Engineer

Approved By:



Date:

Feb. 05, 2010

Vincent Su / Manager



Version

Version No.	Date	Description
00	Feb. 05, 2010	Initial creation of document

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1 GENERAL INFORMATION

1.1 Product Description

Notebook General Information:

Notebook Applicant:	Hewlett Packard Company 3000 Hanover Street Palo Alto, USA, 94304	
Product name:	Intel WLAN radio 622ANHMW tested at HP NB platform HSTNN-W75C	
Brand Name:	HEWLETT PACKARD COMPANY	
Model Name:	HSTNN-W75C	
Model Difference:	N/A	
Display size:	10.1''	
WLAN FCC ID:	B94622ANHMW	
WLAN IC ID:	466Q-622ANHMW	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	11.1 Vdc Li-lion battery or 18.5Vdc from AC/DC power adapter	
	Battery:	Model: HSTNN-OB45, Supplier: Hewlett-Packard Company
	Adapter:	Model: PPP009H, Supplier: Hewlett-Packard Company

WLAN: 802.11 a/b/g/n (2TX / 2RX)

Wi-Fi	Frequency Range (MHz)	Channels	Rated Power	Modulation Technology	Type of Emission
11b/g	2412-2462	11	b : 16.55dBm g : 16.62dBm	DSSS, OFDM	12M3G1D
11n (2.4G Band)	HT20 2412-2462	11	n : 16.65 dBm	OFDM	17M6G1D
	HT40 2422-2452	9			36M1D1D

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Wi-Fi	Frequency Range (MHz)	Channels	Rated Power	Modulation Technology	Type of Emission
11a	5180-5240	4	a : 16.87dBm	OFDM	16M5G7D
11n (5G band)	HT20 5180-5240	4			36M0D1D
	HT40 5190-5230	2			
11a	5260-5320	4	a : 16.73dBm	OFDM	16M5G7D
11n (5G Band)	HT20 5260-5320	4			36M0D1D
	HT40 5270-5310	2			
11a	5500-5700	11	a : 16.75dBm	OFDM	17M6G7D
11n (5G Band)	HT20 5500-5700	11			36M0D1D
	HT40 5510-5670	5			
11a	5745-5825	5	a : 16.67 dBm	OFDM	17M8G7D
11n (5G band)	HT20 5745-5825	5			36M0D1D

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	HT40 5755-5795	2		
Antenna Designation	2.4G: Antenna (Main): 1.74 dBi / Antenna (Aux): 1.37 dBi Type: PIFA, Manufacturer: Ethertronics Inc. 5G: Antenna (Main): 2.81 dBi / Antenna (Aux): 1.75 dBi Type: PIFA, Manufacturer: Ethertronics Inc.			
Modulation type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps; 802.11 b: 1/2/5.5/11 Mbps; 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 450Mbps 802.11 n_40MHz: 13.5 – 450Mbps			

This test report applies for 802.11b/g/n WLAN & 802.11 a/n, a/n HT20 5745~5825MHz, n HT40 5755~5795MHz

1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: B94622ANHMMW** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules and **IC: 466Q-622ANHMMW** filing to comply with Industry Canada RSS-210 issue 7: 2007 Annex 9.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007.. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-1.

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

1.5 Special Accessories

Not available for this EUT intended for grant.

1.6 Equipment Modifications

Not available for this EUT intended for grant.

2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

2.4 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

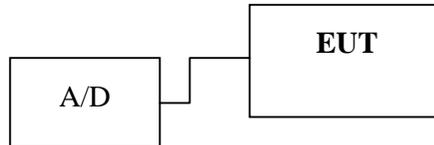


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1.	WiFi Software	N/A	CRTM	N/A

3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b)/ §A8.4(2)	Output Power	Compliant
§15.247(c)/ §A8.5	100 KHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c)/ §A8.5	Spurious Emission	Compliant
§15.203/ RSS-GEN 7.1.4, RSS-210 issue 7,§A8.4	Antenna Requirement	Compliant

4 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

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

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

802.11 g/n mode(20M): Channel low (2412MHz) 、 mid (2437MHz) and high (2462MHz) with 6.5 Mbps data rate are chosen for conducted power testing.

802.11 g/n mode(40M): Channel low (2422MHz) 、 mid (2437MHz) and high (2452MHz) with 13.5 Mbps data rate are chosen for conducted power testing.

802.11 a mode: Channel low (5745MHz) 、 mid (5785MHz) and high (5825MHz) with 6 Mbps data

802.11 a /n HT 20 mode: Channel lowest(5745MHz) 、 Mid(5785MHz) and Highest(5825MHz) with 6.5Mbps data rate are chosen for full testing

802.11 a/n HT 40 mode: Channel lowest(5755MHz) and Highest(5795MHz) with 13.5Mbps data rate are chosen for full testing



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Note: The radiated emission is evaluated and pretested in two mode: Laptop mode and Tablet mode. Laptop mode is defined as the display of EUT open (90 °) with keyboard section while Tablet mode is adjusted in position where the display folds onto keyboard section. In these two mode, radiation emitted by EUT as set in Laptop mode is reported as the worst case.

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5 OUTPUT POWER MEASUREMENT

5.1 Standard Applicable:

According to §15.247(a)(2), (b)

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

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

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

(1) Fixed point-to-point operation:

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

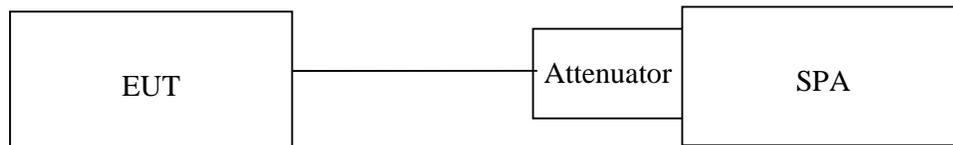
(ii) Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

According to RSS-210 issue 7, §A8.4(2), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, the maximum conducted output power shall not exceed 1 W. For all other frequency hopping systems, the maximum peak conducted output power shall not exceed 0.125 W.

5.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010
Spectrum Analyzer	Agilent	E7405A	US41160416	07/04/2009	07/03/2010
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2009	02/21/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2010	01/04/2011
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2009	07/04/2010

5.3 .Test Set-up:



5.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel power function, RBW =1, VBW = 3MHz, Bandwidth=26dB Emission Bandwidth)
3. Peak power is then measured using internal channel power integration function of SPA.
4. Power is integrated over a bandwidth greater than or equal to 26dBc bandwidth
5. Record the max.reading.
6. Repeat above procedures until all frequency measured was completed.

Note: occupied bandwidth can be referenced to modular report: 81029005

5.5 Measurement Result:

Output Power – 2400~2483.5MHz

802.11b

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	16.55	0.00	16.55	0.04519	1
2437.00	16.51	0.00	16.51	0.04477	1
2462.00	16.44	0.00	16.44	0.04406	1

802.11g

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	15.47	0.00	15.47	0.03524	1
2437.00	16.62	0.00	16.62	0.04592	1
2462.00	15.45	0.00	15.45	0.03508	1

802.11g/n(20M)

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2412.00	14.43	0.00	14.43	0.02773	1
2437.00	16.65	0.00	16.65	0.04624	1
2462.00	14.28	0.00	14.28	0.02679	1

802.11g/n(40M)

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2422.00	12.35	0.00	12.35	0.017179	1
2437.00	16.64	0.00	16.64	0.046132	1
2452.00	12.40	0.00	12.40	0.017378	1

Output Power – 5725~5850MHz

802.11a

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.57	0.00	16.57	0.04539	1
5785.00	16.54	0.00	16.54	0.04508	1
5825.00	16.31	0.00	16.31	0.04276	1

802.11a/n

HT20

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5745.00	16.66	0.00	16.66	0.046345	1
5785.00	16.67	0.00	16.67	0.046452	1
5825.00	16.50	0.00	16.50	0.044668	1

802.11a/n

HT40

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
5755.00	16.53	0.00	16.53	0.04498	1
5795.00	16.50	0.00	16.50	0.04467	1

Cable loss = 0

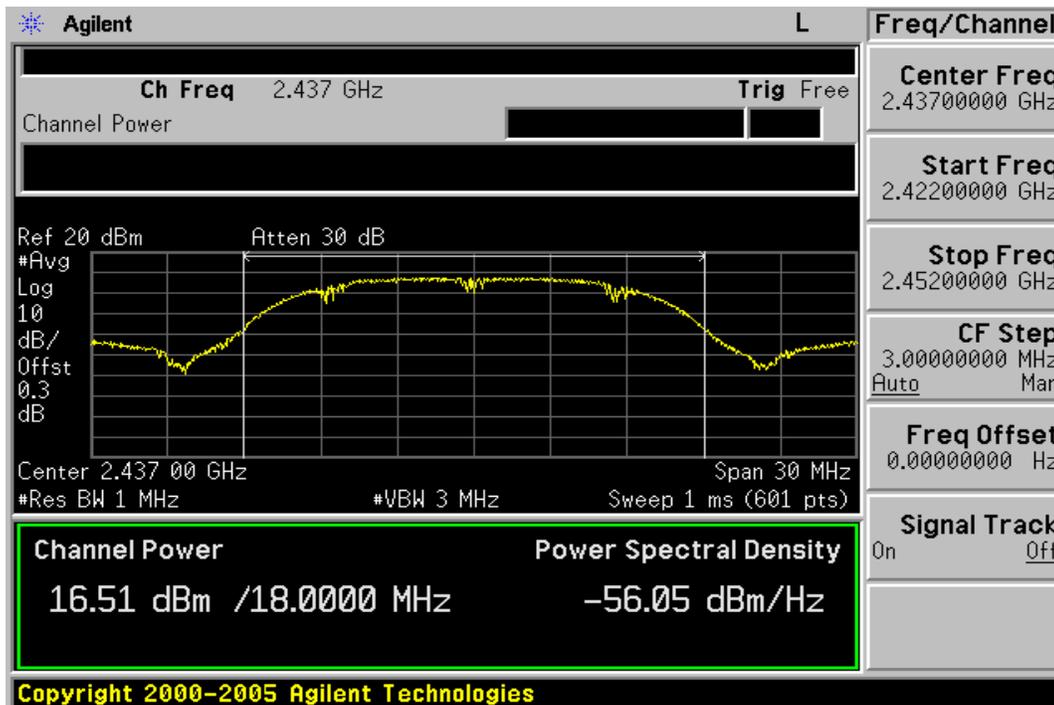
*Note: Offset 0.3dB

Note: Refer to next page for plots.

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

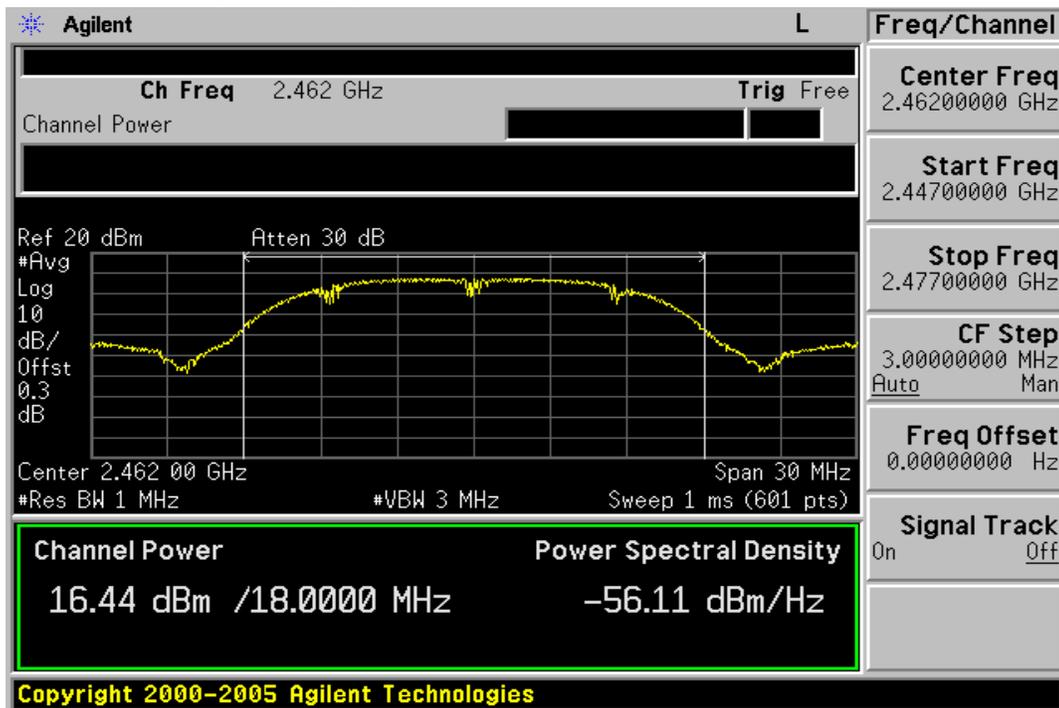


Power Output Plot (CH Mid)



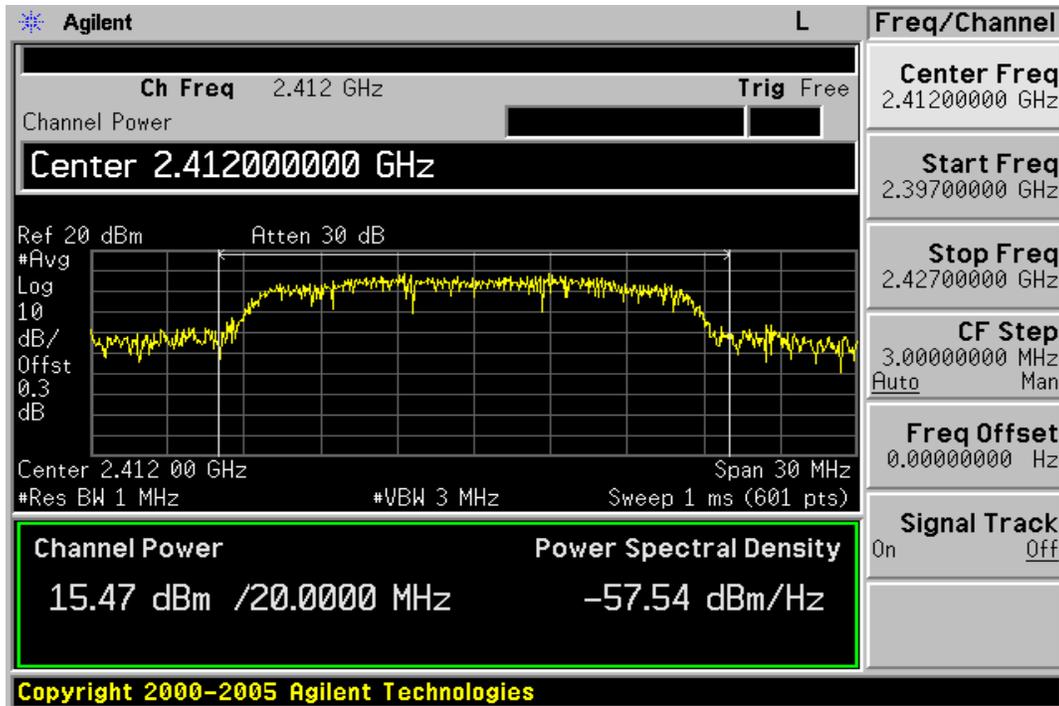
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Power Output Plot (CH High)

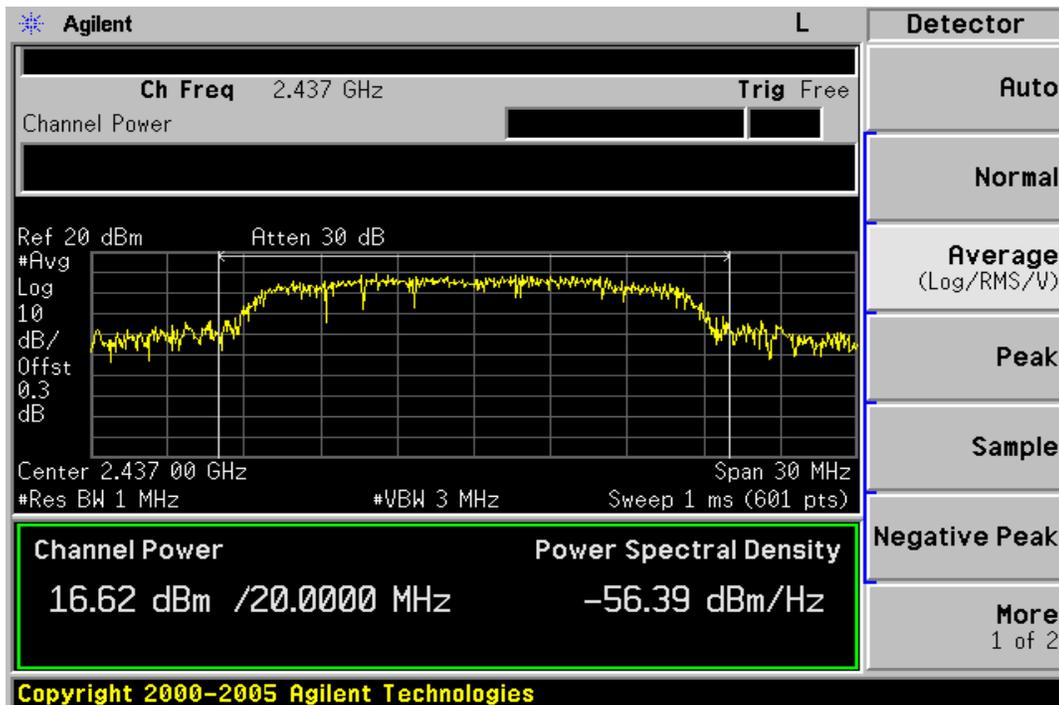


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802.11g, 6Mbps Power Output Plot (CH Low)

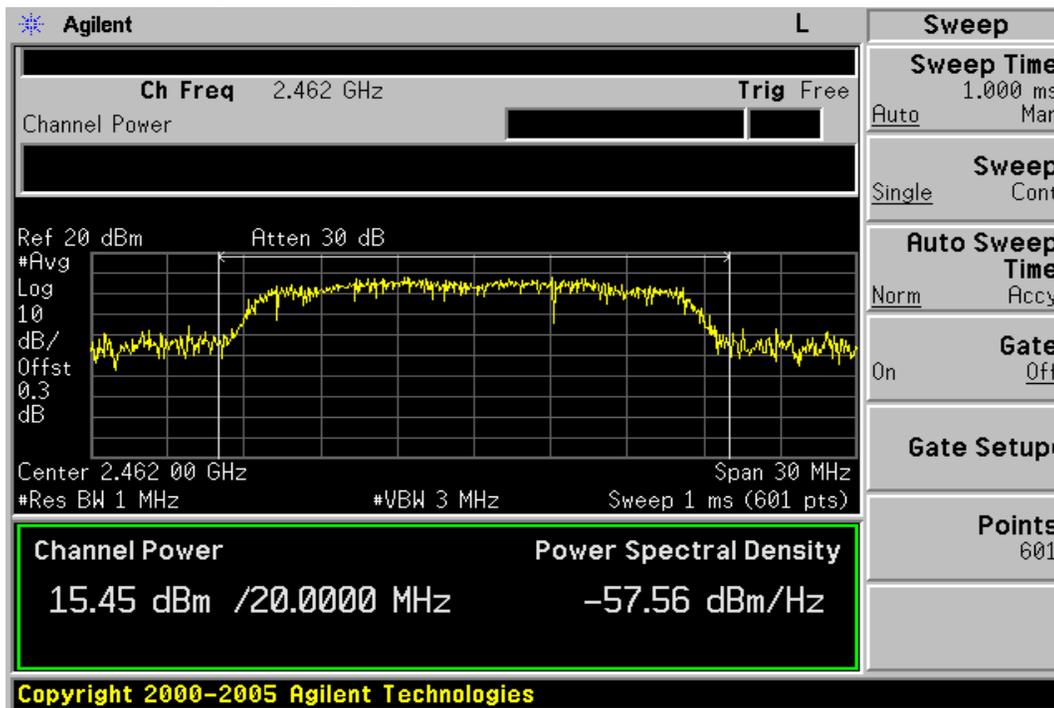


Power Output Plot (CH Mid)



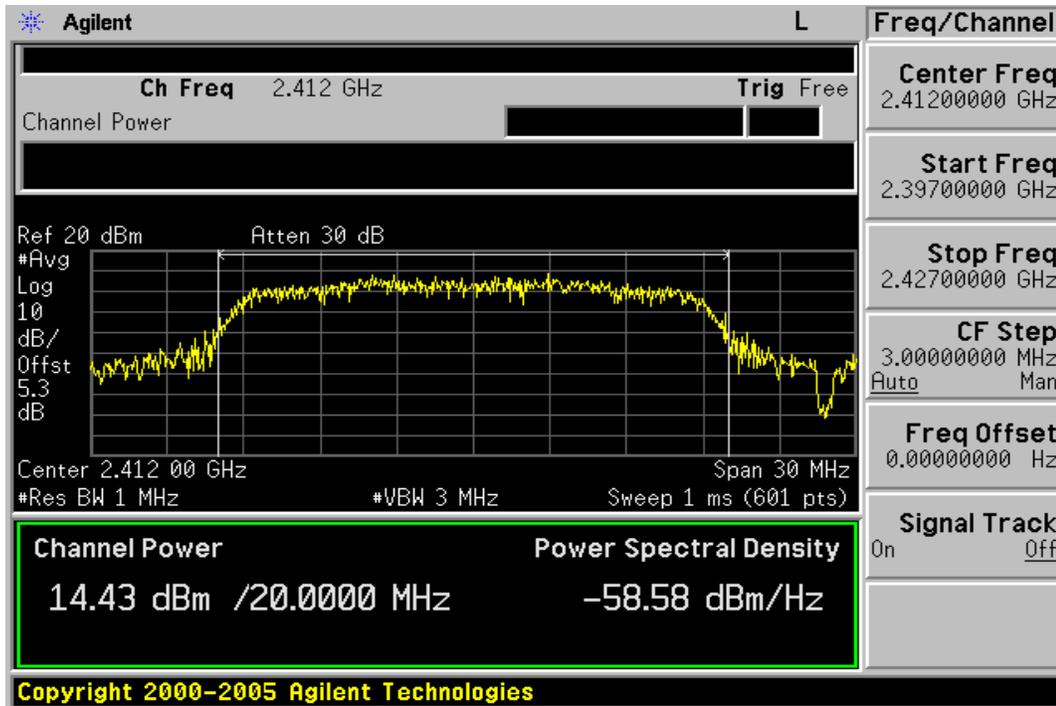
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Power Output Plot (CH High)

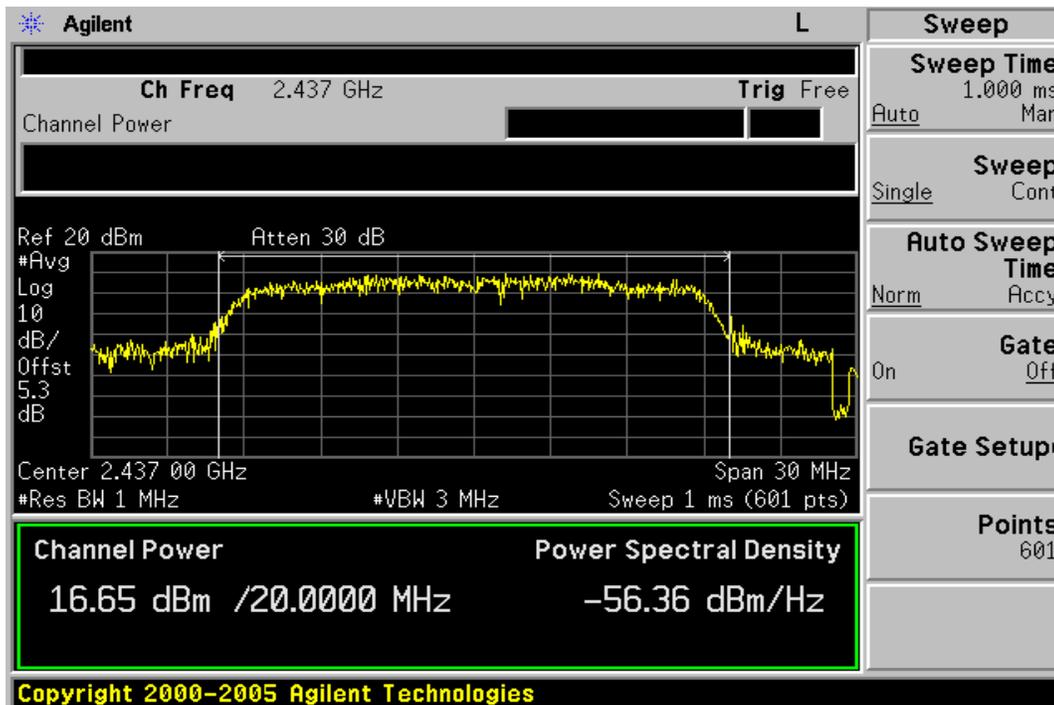


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**802.11n (20M), 6.5Mps
Power Output Plot (CH Low)**

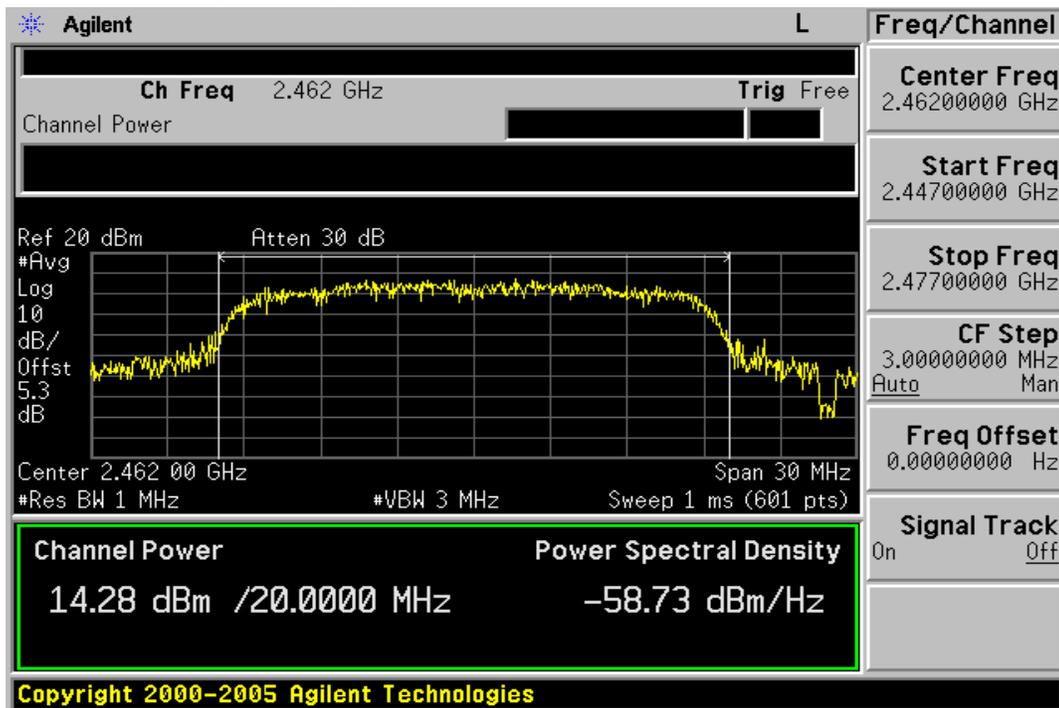


Power Output Plot (CH Mid)



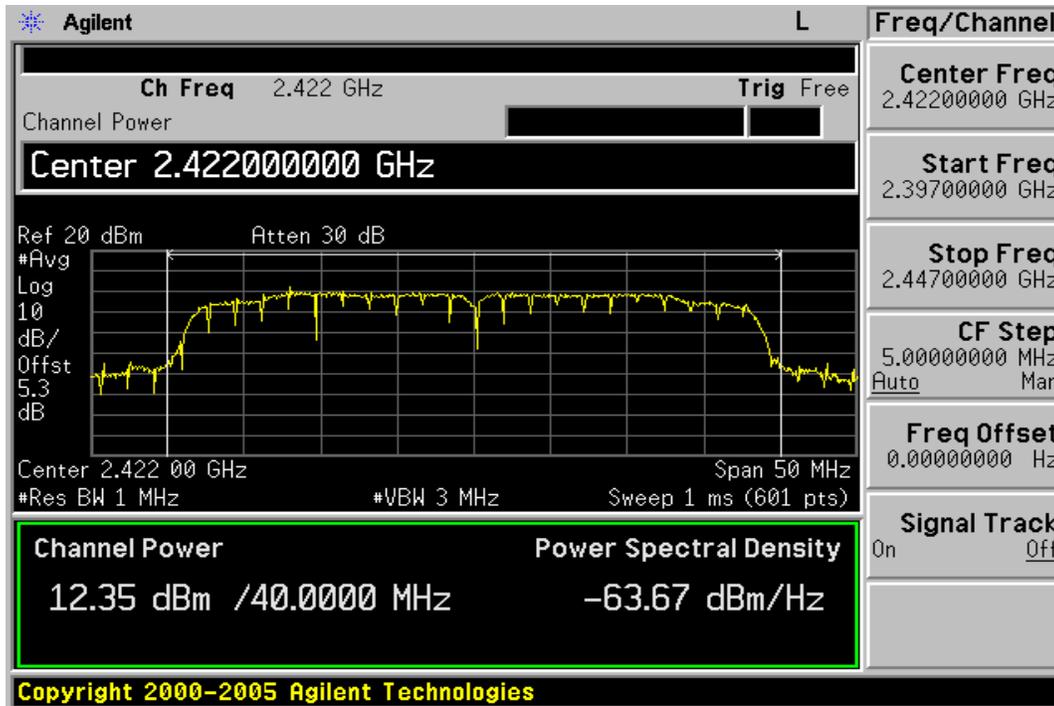
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Power Output Plot (CH High)

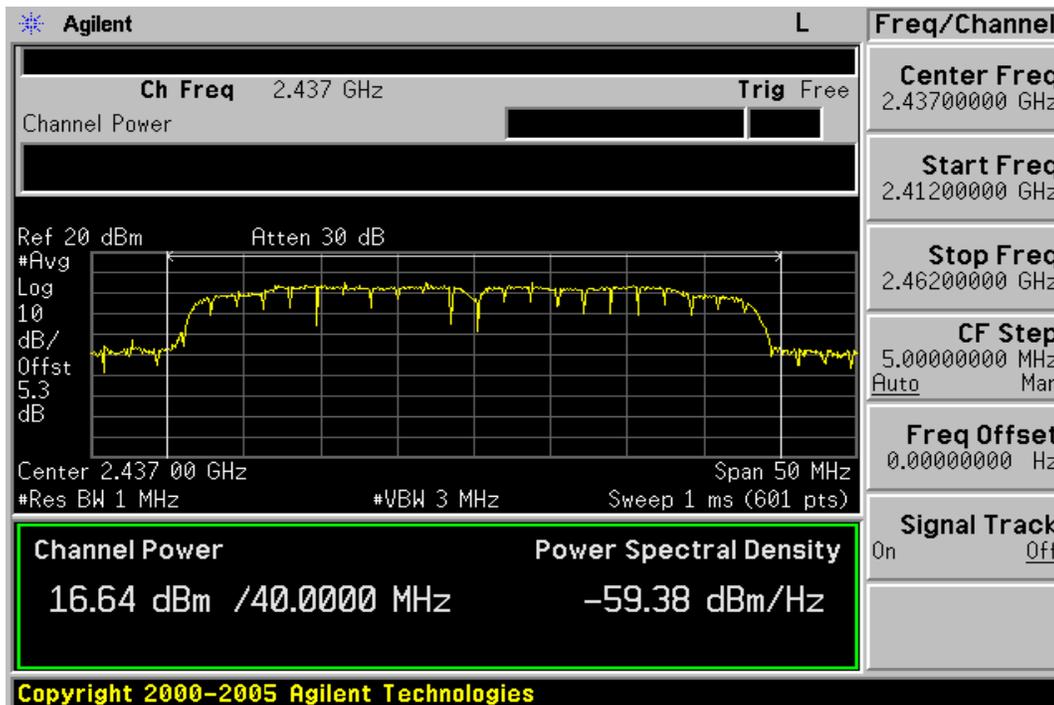


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802.11n_40M, 13.5Mbps
Power Output Plot (CH Low)

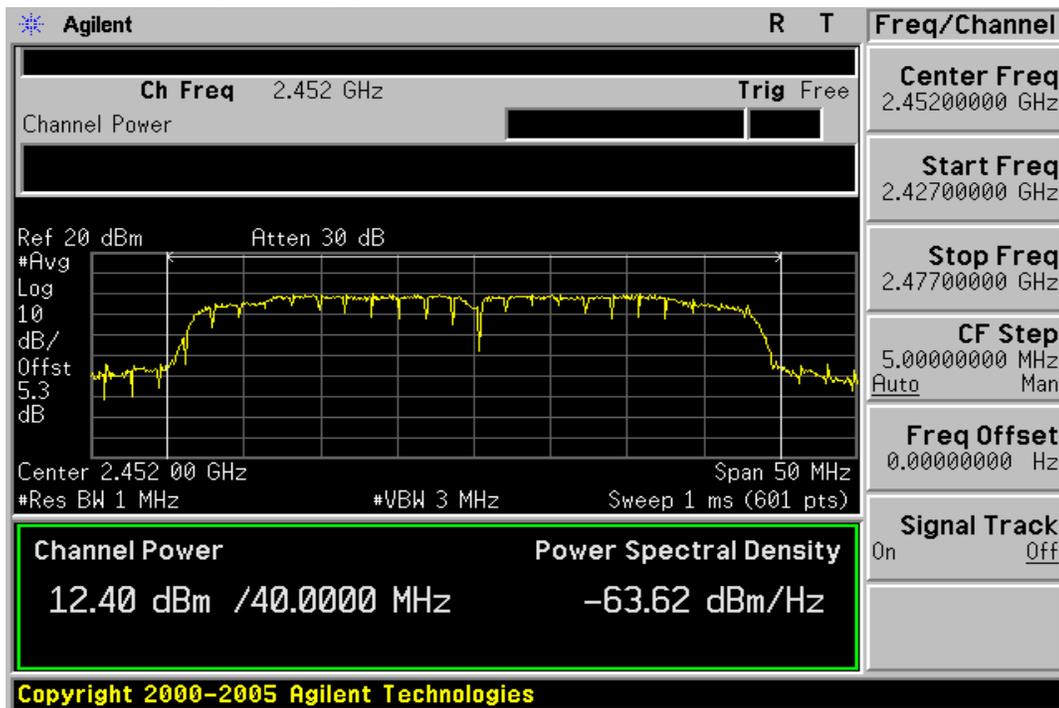


Power Output Plot (CH Mid)



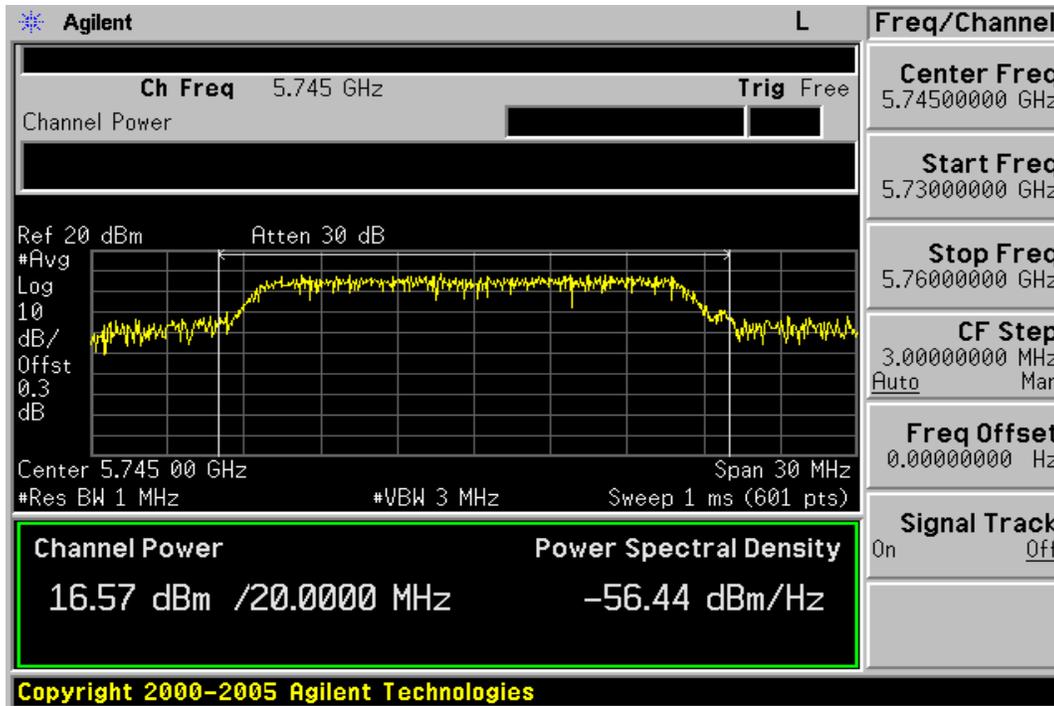
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Power Output Plot (CH High)

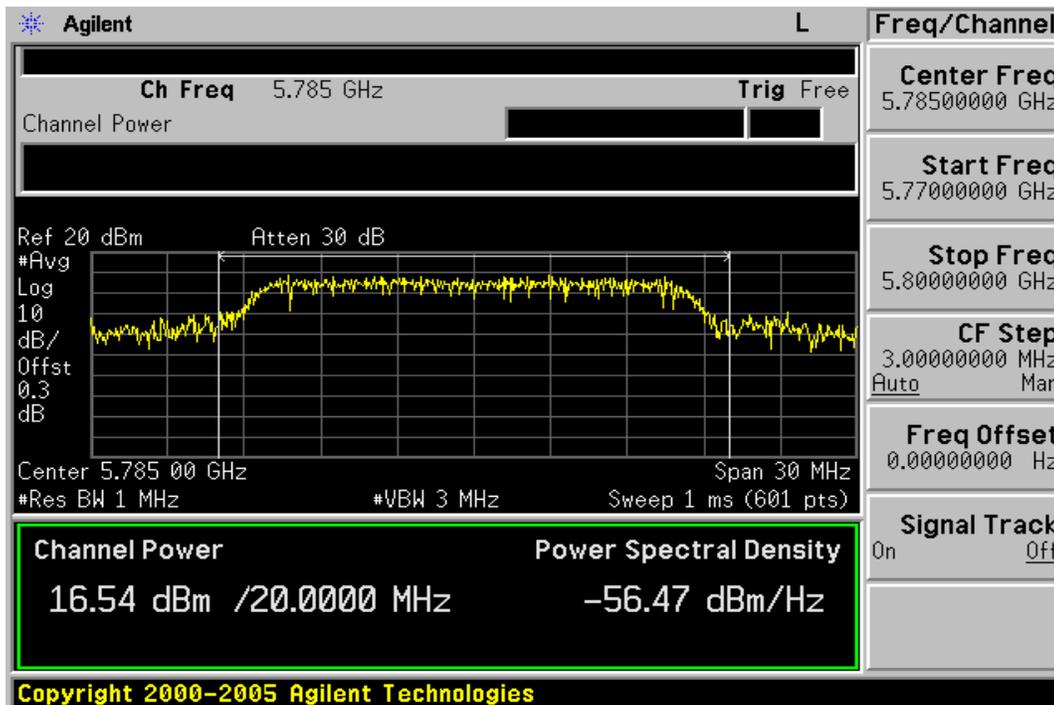


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802.11a, 6Mbps
Power Output Plot (CH Low)

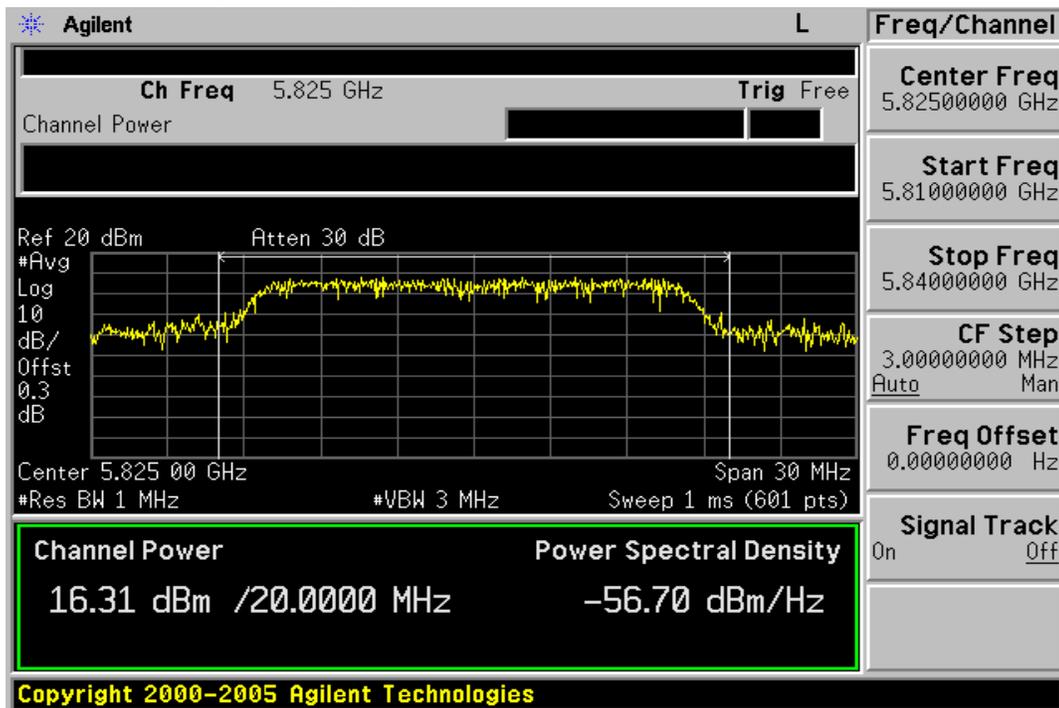


Power Output Plot (CH Mid)



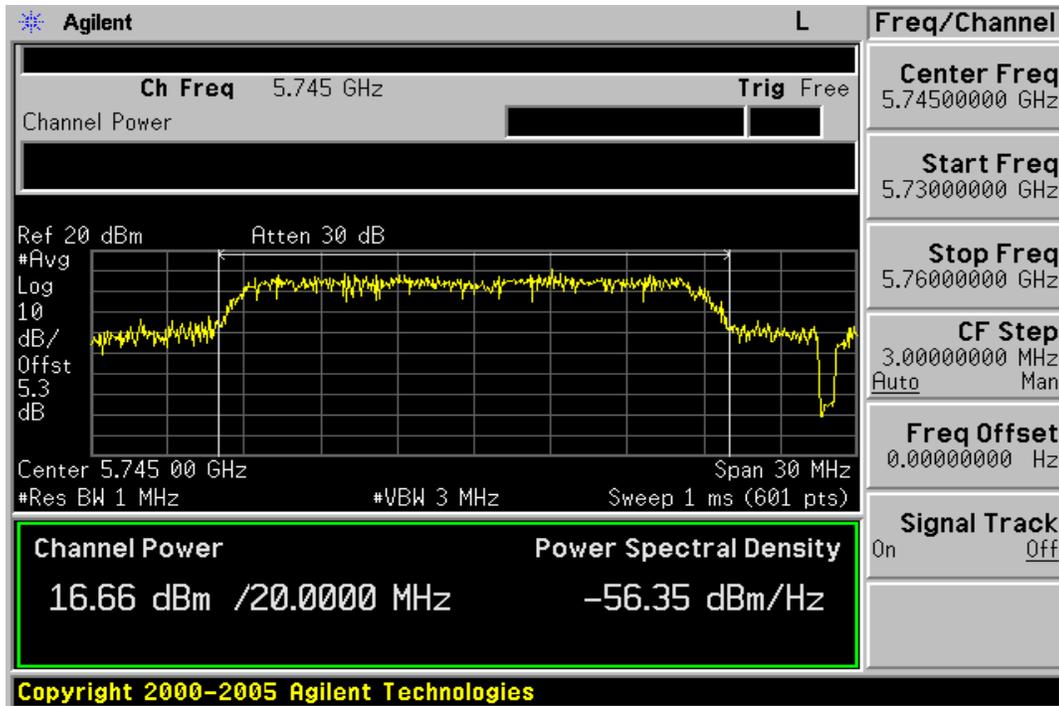
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Power Output Plot (CH High)

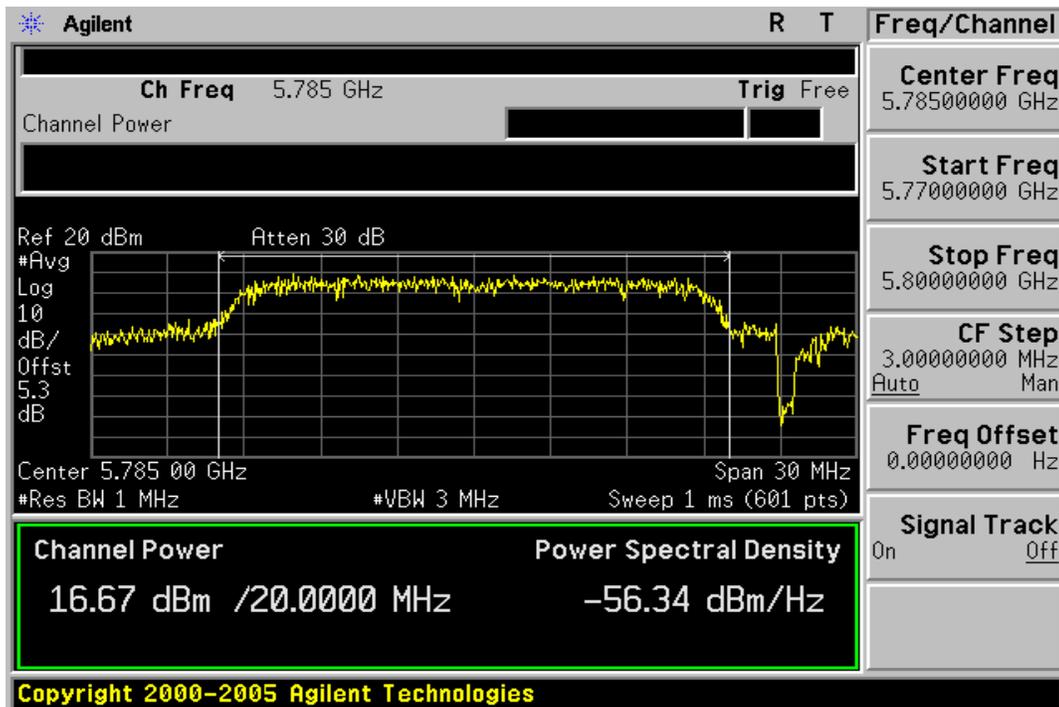


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802.11a HT20, 6.5Mps
Power Output Plot (CH Low)

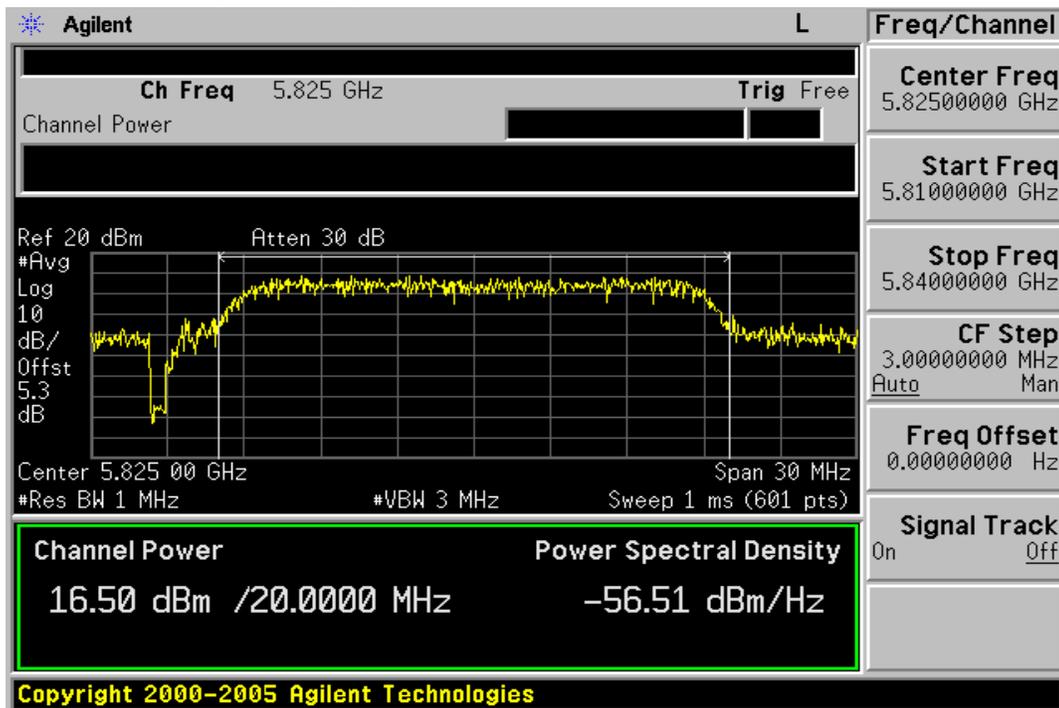


Power Output Plot (CH Mid)



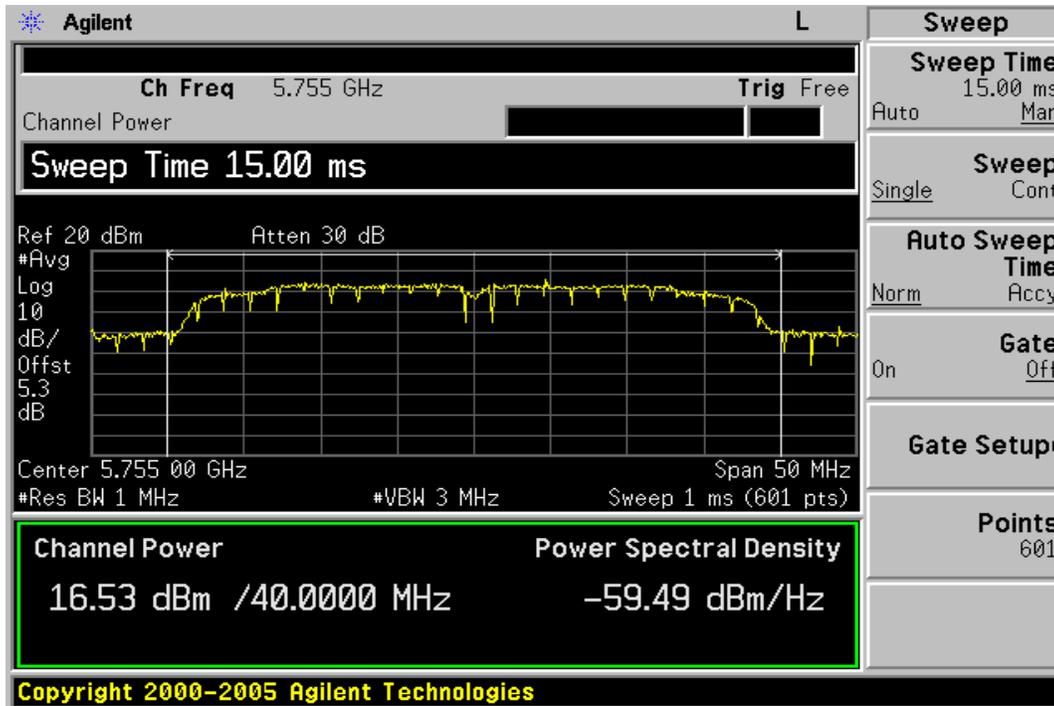
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Power Output Plot (CH High)

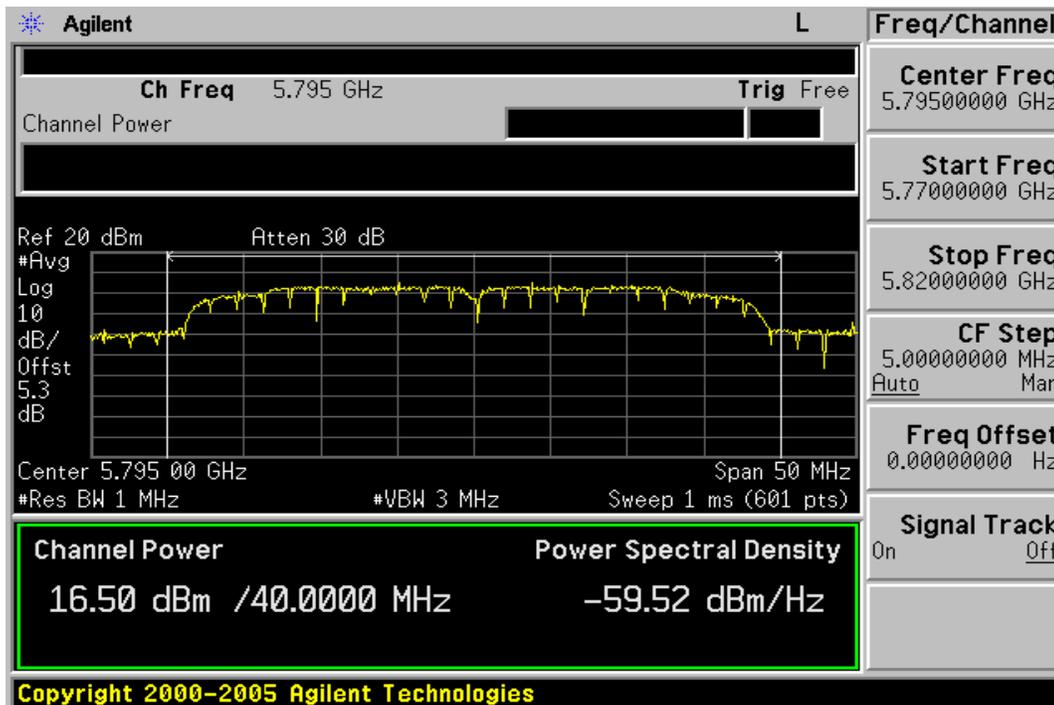


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**802.11a HT40, 13.5Mbps
Power Output Plot (CH Low)**



Power Output Plot (CH Mid)



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6 100KHz BANDWIDTH OF BAND EDGES MEASUREMENT

6.1 Standard Applicable:

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

According to RSS-210 issue 7, §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.

6.2 Measurement Equipment Used:

6.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

6.2.2. Radiated emission:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2009	02/11/2010
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011
Bilog Antenna	SCHWAZBECK	VULB9160	3158	11/29/2009	11/28/2011
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	05/09/2008	05/08/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2009	11/29/2010
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2010	01/04/2011
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	SUCOFLEX 104PEA-10M	10m	01/05/2010	01/04/2011
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2010	01/04/2011
3m Site	SGS	966 chamber	N/A	11/08/2009	11/09/2010

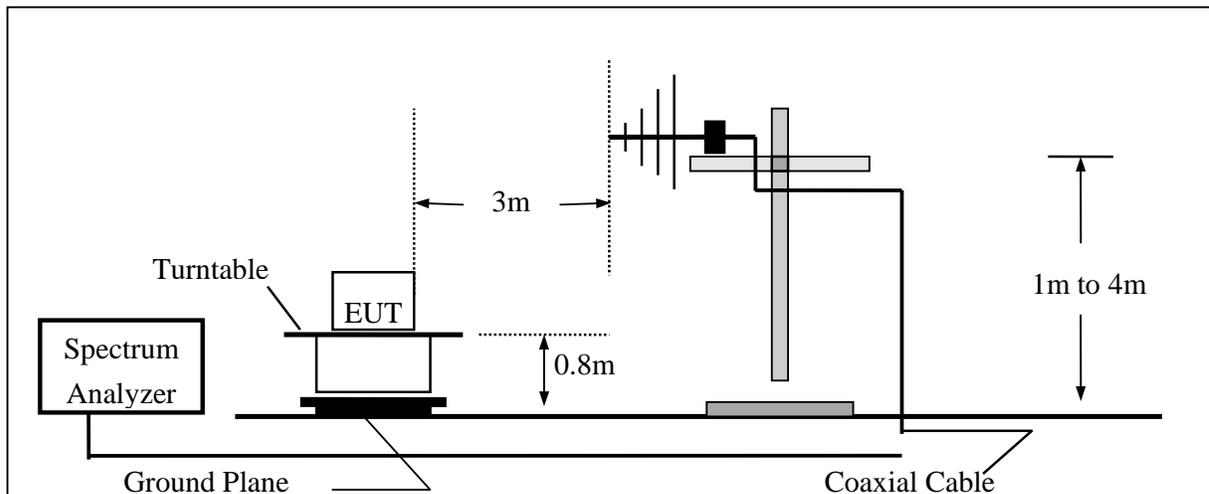
6.3 Test SET-UP:

6.3.1 Conducted Emission at antenna port:

Refer to section 6.3 for details.

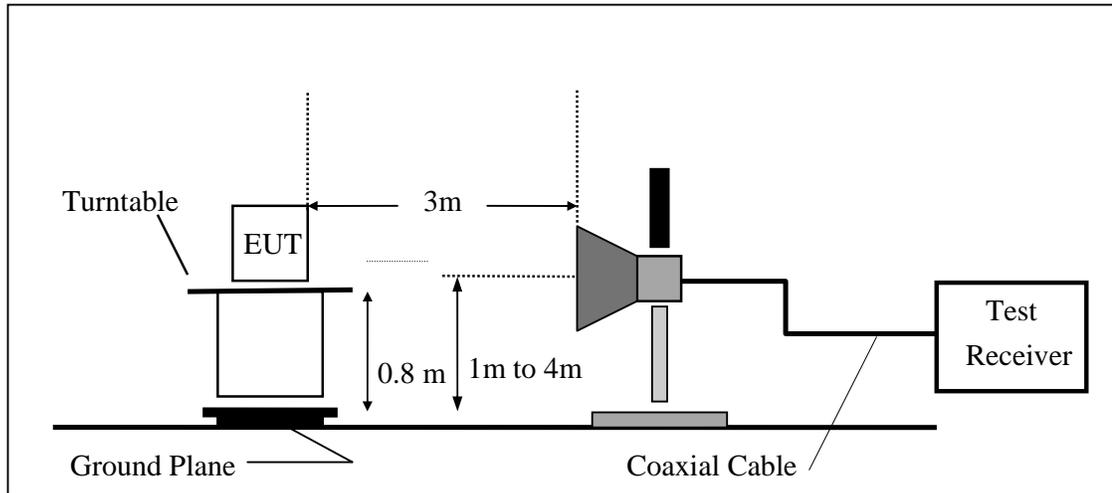
6.3.2 Radiated emission:

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



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



6.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set center frequency of spectrum analyzer = operating frequency.
4. Set the spectrum analyzer as RBW, VBW=100KHz, Span=25MHz, Sweep = auto
5. Mark Peak, 2.390GHz and 2.4835GHz, 5,725 and 5,850GHz and record the max. level.
6. Repeat above procedures until all frequency measured were complete.

6.5 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	

6.6 Measurement Result:

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

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Radiated Emission: 802.11 b mode
Operation Mode TX CH Low
Fundamental Frequency 2412 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	66.13	58.16	-10.76	55.37	47.40	74.00	54.00	-6.60	Avg

Operation Mode TX CH Low
Fundamental Frequency 2412 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	62.50	---	-10.76	51.74	---	74.00	54.00	-2.26	Peak

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 b mode

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Ver.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.56	66.27	61.50	-10.46	55.81	51.04	74.00	54.00	-2.96	Avg

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Hor.

Freq. (MHz)	Peak Reading (dBuV)	AV Reading (dBuV)	Ant./CL CF (dB)	Actual FS		Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
				Peak (dBuV/m)	AV (dBuV/m)				
2483.56	67.24	60.28	-10.46	56.78	49.82	74.00	54.00	-4.18	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g mode

Operation Mode TX CH Low
Fundamental Frequency 2412 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	76.70	60.20	-10.76	65.94	49.44	74.00	54.00	-4.56	Avg

Operation Mode TX CH Low
Fundamental Frequency 2412 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	79.62	60.67	-10.76	68.86	49.91	74.00	54.00	-4.09	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g mode

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Ver.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	77.44	60.14	-10.46	66.98	49.68	74.00	54.00	-4.32	Avg

Operation Mode TX CH High
Fundamental Frequency 2462 MHz
Temperature 25 °C
Humidity 65 %

Test Date Feb. 04, 2010
Test By Sky
Pol Hor.

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	78.49	61.80	-10.46	68.03	51.34	74.00	54.00	-2.66	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g/n_20M mode

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	2412 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	74.36	57.44	-10.76	63.60	46.68	74.00	54.00	-7.32	Avg

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	2412 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	73.61	57.01	-10.76	62.85	46.25	74.00	54.00	-7.75	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g/n_20M mode

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	2462 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	72.71	56.87	-10.46	62.25	46.41	74.00	54.00	-7.59	Avg

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	2462 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	73.03	56.38	-10.46	62.57	45.92	74.00	54.00	-8.08	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g/n_40M mode

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	2422 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	78.39	61.55	-10.76	67.63	50.79	74.00	54.00	-3.21	Avg

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	2422 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2390.00	78.73	61.80	-10.76	67.97	51.04	74.00	54.00	-2.96	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 g/n_40M mode

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	2452 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	79.04	60.25	-10.46	68.58	49.79	74.00	54.00	-4.21	Avg

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	2452 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
2483.50	79.99	59.65	-10.46	69.53	49.19	74.00	54.00	-4.81	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a mode (DTS)

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5745 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	74.78	56.58	-4.53	70.25	52.05	74.00	54.00	-1.95	Avg

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5745 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	74.44	56.85	-4.53	69.91	52.32	74.00	54.00	-1.68	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a/n mode (DTS)

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5825 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	65.85	50.10	-4.08	61.77	46.02	74.00	54.00	-7.98	Avg

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5850 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	66.91	51.47	-4.08	62.83	47.39	74.00	54.00	-6.61	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a/n_HT20 mode

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5745 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	74.29	56.88	-4.53	69.76	52.35	74.00	54.00	-1.65	Avg

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5745 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	69.27	53.28	-4.53	64.74	48.75	74.00	54.00	-5.25	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a/n_HT20 mode

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5825 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	62.63	50.46	-4.08	58.55	46.38	74.00	54.00	-7.62	Avg

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5825 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	62.42	50.22	-4.08	58.34	46.14	74.00	54.00	-7.86	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a_HT40 mode

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5755 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	73.91	57.02	-4.53	69.38	52.49	74.00	54.00	-1.51	Avg

Operation Mode	TX CH Low	Test Date	Feb. 04, 2010
Fundamental Frequency	5755 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant/CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5725.00	73.30	54.98	-4.53	68.77	50.45	74.00	54.00	-3.55	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Emission: 802.11 a_HT40 mode

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5795 MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	58.55	49.50	-4.08	54.47	45.42	74.00	54.00	-8.58	Avg

Operation Mode	TX CH High	Test Date	Feb. 04, 2010
Fundamental Frequency	5795 MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF (dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
5850.00	58.07	49.22	-4.08	53.99	45.14	74.00	54.00	-8.86	Avg

Remark :

- (1) Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (2) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- (3) Spectrum Peak Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

7 SPURIOUS RADIATED EMISSION TEST

7.1 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-210 issue 7, §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.

7.2 Measurement Equipment Used:

7.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

7.2.2. Radiated emission:

Refer to section 7.2.2 for details.

7.3 Test SET-UP:

7.3.1. Conducted Emission at antenna port:

Refer to section 6.3 for details.

7.3.2. Radiated emission:

Refer to section 7.3 for details.

7.4 Measurement Procedure:

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.

7.5 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	

7.6 Measurement Result:

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

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

Operation Mode	802.11b TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
56.13	V	Peak	53.20	-26.67	26.53	40.00	-13.47
167.74	V	Peak	55.70	-27.76	27.94	43.50	-15.56
198.78	V	Peak	60.33	-31.30	29.03	43.50	-14.47
216.24	V	Peak	59.04	-30.90	28.14	46.00	-17.86
264.74	V	Peak	57.34	-29.48	27.86	46.00	-18.14
431.58	V	Peak	49.30	-25.29	24.01	46.00	-21.99
133.79	H	Peak	49.92	-28.02	21.90	43.50	-21.60
167.74	H	Peak	56.69	-27.76	28.93	43.50	-14.57
198.78	H	Peak	60.35	-31.30	29.05	43.50	-14.45
216.24	H	Peak	53.76	-30.90	22.86	46.00	-23.14
264.74	H	Peak	54.84	-29.48	25.36	46.00	-20.64
455.83	H	Peak	48.29	-24.95	23.34	46.00	-22.66

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	53.32	-26.67	26.65	40.00	-13.35
167.74	V	Peak	55.54	-27.76	27.78	43.50	-15.72
198.78	V	Peak	60.53	-31.30	29.23	43.50	-14.27
216.24	V	Peak	58.93	-30.90	28.03	46.00	-17.97
264.74	V	Peak	56.91	-29.48	27.43	46.00	-18.57
431.58	V	Peak	49.84	-25.29	24.55	46.00	-21.45
133.79	H	Peak	49.18	-28.02	21.16	43.50	-22.34
167.74	H	Peak	56.68	-27.76	28.92	43.50	-14.58
198.78	H	Peak	60.25	-31.30	28.95	43.50	-14.55
216.24	H	Peak	54.03	-30.90	23.13	46.00	-22.87
264.74	H	Peak	54.36	-29.48	24.88	46.00	-21.12
455.83	H	Peak	47.32	-24.95	22.37	46.00	-23.63

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b)

Operation Mode	802.11b TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.71	-26.67	26.04	40.00	-13.96
167.74	V	Peak	55.51	-27.76	27.75	43.50	-15.75
198.78	V	Peak	60.69	-31.30	29.39	43.50	-14.11
216.24	V	Peak	59.37	-30.90	28.47	46.00	-17.53
240.49	V	Peak	54.20	-29.89	24.31	46.00	-21.69
264.74	V	Peak	57.16	-29.48	27.68	46.00	-18.32
167.74	H	Peak	56.19	-27.76	28.43	43.50	-15.07
198.78	H	Peak	60.19	-31.30	28.89	43.50	-14.61
216.24	H	Peak	54.05	-30.90	23.15	46.00	-22.85
264.74	H	Peak	54.78	-29.48	25.30	46.00	-20.70
444.19	H	Peak	47.97	-25.15	22.82	46.00	-23.18
599.39	H	Peak	45.12	-22.80	22.32	46.00	-23.68

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

Operation Mode	802.11g TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.52	-26.67	25.85	40.00	-14.15
167.74	V	Peak	55.74	-27.76	27.98	43.50	-15.52
198.78	V	Peak	60.88	-31.30	29.58	43.50	-13.92
216.24	V	Peak	58.80	-30.90	27.90	46.00	-18.10
264.74	V	Peak	57.11	-29.48	27.63	46.00	-18.37
431.58	V	Peak	49.77	-25.29	24.48	46.00	-21.52
167.74	H	Peak	56.76	-27.76	29.00	43.50	-14.50
198.78	H	Peak	61.06	-31.30	29.76	43.50	-13.74
216.24	H	Peak	54.13	-30.90	23.23	46.00	-22.77
264.74	H	Peak	54.41	-29.48	24.93	46.00	-21.07
431.58	H	Peak	47.74	-25.29	22.45	46.00	-23.55
455.83	H	Peak	47.18	-24.95	22.23	46.00	-23.77

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

Operation Mode	802.11g TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.74	-26.67	26.07	40.00	-13.93
167.74	V	Peak	55.76	-27.76	28.00	43.50	-15.50
198.78	V	Peak	60.89	-31.30	29.59	43.50	-13.91
216.24	V	Peak	59.10	-30.90	28.20	46.00	-17.80
264.74	V	Peak	56.87	-29.48	27.39	46.00	-18.61
431.58	V	Peak	49.47	-25.29	24.18	46.00	-21.82
58.13	H	Peak	52.74	-26.67	26.07	40.00	-13.93
167.74	H	Peak	55.76	-27.76	28.00	43.50	-15.50
198.76	H	Peak	60.89	-31.30	29.59	43.50	-13.91
216.24	H	Peak	59.10	-30.90	28.20	46.00	-17.80
240.49	H	Peak	54.65	-29.89	24.76	46.00	-21.24
264.74	H	Peak	56.87	-29.48	27.39	46.00	-18.61

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g)

Operation Mode	802.11g TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.86	-26.67	26.19	40.00	-13.81
167.74	V	Peak	55.74	-27.76	27.98	43.50	-15.52
198.78	V	Peak	60.19	-31.30	28.89	43.50	-14.61
216.24	V	Peak	59.21	-30.90	28.31	46.00	-17.69
240.49	V	Peak	54.62	-29.89	24.73	46.00	-21.27
264.74	V	Peak	56.99	-29.48	27.51	46.00	-18.49
133.79	H	Peak	49.94	-28.02	21.92	43.50	-21.58
167.74	H	Peak	55.45	-27.76	27.69	43.50	-15.81
198.78	H	Peak	58.60	-31.30	27.30	43.50	-16.20
216.24	H	Peak	54.17	-30.90	23.27	46.00	-22.73
264.74	H	Peak	54.93	-29.48	25.45	46.00	-20.55
455.83	H	Peak	47.61	-24.95	22.66	46.00	-23.34

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_20M) Combine mode

Operation Mode	802.11g/n_20M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.66	-26.67	25.99	40.00	-14.01
167.74	V	Peak	55.74	-27.76	27.98	43.50	-15.52
198.78	V	Peak	60.82	-31.30	29.52	43.50	-13.98
216.24	V	Peak	58.94	-30.90	28.04	46.00	-17.96
240.49	V	Peak	54.37	-29.89	24.48	46.00	-21.52
266.68	V	Peak	57.02	-29.41	27.61	46.00	-18.39
133.79	H	Peak	49.97	-28.02	21.95	43.50	-21.55
167.74	H	Peak	54.51	-27.76	26.75	43.50	-16.75
198.78	H	Peak	58.07	-31.30	26.77	43.50	-16.73
216.24	H	Peak	53.76	-30.90	22.86	46.00	-23.14
264.74	H	Peak	54.53	-29.48	25.05	46.00	-20.95
455.83	H	Peak	47.62	-24.95	22.67	46.00	-23.33

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_20M) Combine mode

Operation Mode	802.11g/n_20M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.56	-26.67	25.89	40.00	-14.11
167.74	V	Peak	55.65	-27.76	27.89	43.50	-15.61
198.78	V	Peak	60.76	-31.30	29.46	43.50	-14.04
216.24	V	Peak	58.83	-30.90	27.93	46.00	-18.07
264.74	V	Peak	56.93	-29.48	27.45	46.00	-18.55
431.58	V	Peak	50.72	-25.29	25.43	46.00	-20.57
133.79	H	Peak	50.09	-28.02	22.07	43.50	-21.43
167.74	H	Peak	56.34	-27.76	28.58	43.50	-14.92
198.78	H	Peak	60.40	-31.30	29.10	43.50	-14.40
216.24	H	Peak	53.75	-30.90	22.85	46.00	-23.15
264.74	H	Peak	54.63	-29.48	25.15	46.00	-20.85
431.58	H	Peak	47.86	-25.29	22.57	46.00	-23.43

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_20M) Combine mode

Operation Mode	802.11g/n_20M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
167.74	V	Peak	55.71	-27.76	27.95	43.50	-15.55
198.78	V	Peak	59.93	-31.30	28.63	43.50	-14.87
216.24	V	Peak	58.99	-30.90	28.09	46.00	-17.91
240.49	V	Peak	55.11	-29.89	25.22	46.00	-20.78
264.74	V	Peak	56.93	-29.48	27.45	46.00	-18.55
431.58	V	Peak	49.59	-25.29	24.30	46.00	-21.70
167.74	H	Peak	56.15	-27.76	28.39	43.50	-15.11
198.78	H	Peak	60.40	-31.30	29.10	43.50	-14.40
216.24	H	Peak	53.39	-30.90	22.49	46.00	-23.51
264.74	H	Peak	54.58	-29.48	25.10	46.00	-20.90
431.58	H	Peak	46.65	-25.29	21.36	46.00	-24.64
455.83	H	Peak	47.99	-24.95	23.04	46.00	-22.96

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_40M) Combine mode

Operation Mode	802.11g/n_40M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2422MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	53.00	-26.67	26.33	40.00	-13.67
167.74	V	Peak	55.84	-27.76	28.08	43.50	-15.42
198.78	V	Peak	60.59	-31.30	29.29	43.50	-14.21
216.24	V	Peak	59.03	-30.90	28.13	46.00	-17.87
264.74	V	Peak	57.19	-29.48	27.71	46.00	-18.29
431.58	V	Peak	49.62	-25.29	24.33	46.00	-21.67
59.13	H	Peak	51.80	-26.67	25.13	40.00	-14.87
167.74	H	Peak	57.25	-27.76	29.49	43.50	-14.01
198.78	H	Peak	61.32	-31.30	30.02	43.50	-13.48
216.24	H	Peak	55.63	-30.90	24.73	46.00	-21.27
264.74	H	Peak	56.76	-29.48	27.28	46.00	-18.72
455.83	H	Peak	49.40	-24.95	24.45	46.00	-21.55

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_40M) Combine mode

Operation Mode	802.11g/n_40M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	55.50	-26.67	28.83	40.00	-11.17
167.74	V	Peak	57.35	-27.76	29.59	43.50	-13.91
198.78	V	Peak	61.85	-31.30	30.55	43.50	-12.95
216.24	V	Peak	60.68	-30.90	29.78	46.00	-16.22
264.74	V	Peak	58.63	-29.48	29.15	46.00	-16.85
431.58	V	Peak	53.22	-25.29	27.93	46.00	-18.07
133.79	H	Peak	52.11	-28.02	24.09	43.50	-19.41
167.74	H	Peak	57.18	-27.76	29.42	43.50	-14.08
198.78	H	Peak	60.14	-31.30	28.84	43.50	-14.66
264.74	H	Peak	56.90	-29.48	27.42	46.00	-18.58
431.58	H	Peak	49.20	-25.29	23.91	46.00	-22.09
455.83	H	Peak	49.08	-24.95	24.13	46.00	-21.87

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz °
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11n_40M) Combine mode

Operation Mode	802.11g/n_40M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2452MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	55.56	-26.67	28.89	40.00	-11.11
167.74	V	Peak	57.33	-27.76	29.57	43.50	-13.93
198.78	V	Peak	62.31	-31.30	31.01	43.50	-12.49
216.24	V	Peak	59.83	-30.90	28.93	46.00	-17.07
264.74	V	Peak	59.14	-29.48	29.66	46.00	-16.34
431.58	V	Peak	52.12	-25.29	26.83	46.00	-19.17
133.79	H	Peak	52.59	-28.02	24.57	43.50	-18.93
167.74	H	Peak	57.30	-27.75	29.55	43.50	-13.95
198.78	H	Peak	59.59	-31.30	28.29	43.50	-15.21
216.24	H	Peak	55.64	-30.90	24.74	46.00	-21.26
264.74	H	Peak	57.07	-29.48	27.59	46.00	-18.41
431.58	H	Peak	49.02	-25.29	23.73	46.00	-22.27

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a)

Operation Mode	802.11a (DTS) TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	55.33	-26.67	28.66	40.00	-11.34
167.74	V	Peak	57.32	-27.76	29.56	43.50	-13.94
198.78	V	Peak	61.40	-31.30	30.10	43.50	-13.40
216.24	V	Peak	59.67	-30.90	28.77	46.00	-17.23
264.74	V	Peak	58.49	-29.48	29.01	46.00	-16.99
431.58	V	Peak	51.93	-25.29	26.64	46.00	-19.36
133.79	H	Peak	51.94	-28.02	23.92	43.50	-19.58
167.74	H	Peak	56.72	-27.76	28.96	43.50	-14.54
198.78	H	Peak	59.63	-31.30	28.33	43.50	-15.17
216.24	H	Peak	55.52	-30.90	24.62	46.00	-21.38
264.74	H	Peak	56.44	-29.48	26.96	46.00	-19.04
431.58	H	Peak	49.27	-25.29	23.98	46.00	-22.02

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a)

Operation Mode	802.11a (DTS) TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.74	-26.67	28.07	40.00	-11.93
167.74	V	Peak	57.05	-27.76	29.29	43.50	-14.21
198.78	V	Peak	61.34	-31.30	30.04	43.50	-13.46
216.24	V	Peak	60.74	-30.90	29.84	46.00	-16.16
264.74	V	Peak	58.47	-29.48	28.99	46.00	-17.01
431.58	V	Peak	52.03	-25.29	26.74	46.00	-19.26
133.79	H	Peak	51.83	-28.02	23.81	43.50	-19.69
167.74	H	Peak	55.90	-27.76	28.14	43.50	-15.36
198.78	H	Peak	58.64	-31.30	27.34	43.50	-16.16
216.24	H	Peak	55.55	-30.90	24.65	46.00	-21.35
264.74	H	Peak	56.67	-29.48	27.19	46.00	-18.81
455.83	H	Peak	48.79	-24.95	23.84	46.00	-22.16

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a)

Operation Mode	802.11a (DTS) TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5825MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.34	-26.67	27.67	40.00	-12.33
77.53	V	Peak	57.39	-30.53	26.86	40.00	-13.14
167.74	V	Peak	55.95	-27.76	28.19	43.50	-15.31
198.78	V	Peak	60.19	-31.30	28.89	43.50	-14.61
216.24	V	Peak	60.39	-30.90	29.49	46.00	-16.51
264.24	V	Peak	58.31	-29.48	28.83	46.00	-17.17
133.79	H	Peak	52.09	-28.02	24.07	43.50	-19.43
167.74	H	Peak	55.88	-27.76	28.12	43.50	-15.38
198.78	H	Peak	58.55	-31.30	27.25	43.50	-16.25
216.24	H	Peak	55.47	-30.90	24.57	46.00	-21.43
264.74	H	Peak	57.17	-29.48	27.69	46.00	-18.31
441.28	H	Peak	50.11	-25.20	24.91	46.00	-21.09

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a HT20) Combine mode

Operation Mode	802.11a/n_HT20 TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.72	-26.67	28.05	40.00	-11.95
167.74	V	Peak	55.86	-27.76	28.10	43.50	-15.40
198.78	V	Peak	60.90	-31.30	29.60	43.50	-13.90
216.24	V	Peak	58.51	-30.90	27.61	46.00	-18.39
264.74	V	Peak	58.45	-29.48	28.97	46.00	-17.03
431.58	V	Peak	52.63	-25.29	27.34	46.00	-18.66
56.19	H	Peak	52.55	-26.51	26.04	40.00	-13.96
167.74	H	Peak	55.76	-27.76	28.00	43.50	-15.50
198.78	H	Peak	58.78	-31.30	27.48	43.50	-16.02
216.24	H	Peak	55.25	-30.90	24.35	46.00	-21.65
264.74	H	Peak	56.46	-29.48	26.98	46.00	-19.02
455.83	H	Peak	48.64	-24.95	23.69	46.00	-22.31

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a HT20) Combine mode

Operation Mode	802.11a/n_HT20 TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	55.13	-26.67	28.46	40.00	-11.54
167.74	V	Peak	56.26	-27.76	28.50	43.50	-15.00
198.78	V	Peak	60.87	-31.30	29.57	43.50	-13.93
216.24	V	Peak	59.80	-30.90	28.90	46.00	-17.10
264.74	V	Peak	58.76	-29.48	29.28	46.00	-16.72
431.58	V	Peak	51.62	-25.29	26.33	46.00	-19.67
133.79	H	Peak	52.55	-28.02	24.53	43.50	-18.97
167.74	H	Peak	56.96	-27.76	29.20	43.50	-14.30
198.78	H	Peak	59.44	-31.30	28.14	43.50	-15.36
216.24	H	Peak	55.59	-30.90	24.69	46.00	-21.31
264.74	H	Peak	56.55	-29.48	27.07	46.00	-18.93
455.83	H	Peak	48.78	-24.95	23.83	46.00	-22.17

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a HT20) Combine mode

Operation Mode	802.11a/n_HT20 TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.34	-26.67	27.67	40.00	-12.33
77.53	V	Peak	59.52	-30.53	28.99	40.00	-11.01
167.74	V	Peak	56.38	-27.76	28.62	43.50	-14.88
198.78	V	Peak	62.16	-31.30	30.86	43.50	-12.64
216.24	V	Peak	59.35	-30.90	28.45	46.00	-17.55
264.24	V	Peak	58.79	-29.48	29.31	46.00	-16.69
133.79	H	Peak	52.46	-28.02	24.44	43.50	-19.06
167.74	H	Peak	56.86	-27.76	29.10	43.50	-14.40
198.78	H	Peak	59.81	-31.30	28.51	43.50	-14.99
216.24	H	Peak	54.70	-30.90	23.80	46.00	-22.20
264.74	H	Peak	56.93	-29.48	27.45	46.00	-18.55
431.58	H	Peak	49.01	-25.20	23.81	46.00	-22.19

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a HT40) Combine mode

Operation Mode	802.11a/n_HT40 TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5755MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.79	-26.67	28.12	40.00	-11.88
167.74	V	Peak	57.17	-27.76	29.41	43.50	-14.09
198.78	V	Peak	59.95	-31.30	28.65	43.50	-14.85
216.24	V	Peak	58.49	-30.90	27.59	46.00	-18.41
264.74	V	Peak	58.51	-29.48	29.03	46.00	-16.97
431.58	V	Peak	52.63	-25.29	27.34	46.00	-18.66
133.79	H	Peak	52.12	-28.02	24.10	43.50	-19.40
167.74	H	Peak	55.76	-27.76	28.00	43.50	-15.50
198.78	H	Peak	58.81	-31.30	27.51	43.50	-15.99
216.24	H	Peak	57.04	-30.90	26.14	46.00	-19.86
264.74	H	Peak	56.50	-29.48	27.02	46.00	-18.98
444.19	H	Peak	48.69	-25.15	23.54	46.00	-22.46

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a HT40) Combine mode

Operation Mode	802.11a/n_HT40 TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5795MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	54.57	-26.67	27.90	40.00	-12.10
167.74	V	Peak	56.11	-27.76	28.35	43.50	-15.15
198.78	V	Peak	60.35	-31.30	29.05	43.50	-14.45
216.24	V	Peak	58.47	-30.90	27.57	46.00	-18.43
264.74	V	Peak	58.25	-29.48	28.77	46.00	-17.23
431.58	V	Peak	51.33	-25.29	26.04	46.00	-19.96
133.79	H	Peak	51.19	-28.02	23.17	43.50	-20.33
167.74	H	Peak	55.46	-27.76	27.70	43.50	-15.80
198.78	H	Peak	58.82	-31.30	27.52	43.50	-15.98
216.24	H	Peak	56.08	-30.90	25.18	46.00	-20.82
264.74	H	Peak	56.43	-29.48	26.95	46.00	-19.05
455.83	H	Peak	49.23	-24.95	24.28	46.00	-21.72

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1565.5	44.79	---	-14.09	30.70	---	74.00	54.00	-23.30	Peak
4824.0	43.80	---	-6.01	37.79	---	74.00	54.00	-16.21	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		
24120.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4824.0	46.29	---	-6.01	40.28	---	74.00	54.00	-13.72	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		
24120.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1565.0	44.41	---	-14.09	30.32	---	74.00	54.00	-23.68	Peak
4874.0	37.71	---	-5.97	31.74	---	74.00	54.00	-22.26	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	39.94	---	-5.97	33.97	---	74.00	54.00	-20.03	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1565.0	41.77	---	-14.09	27.68	---	74.00	54.00	-26.32	Peak
4924.0	36.59	---	-5.91	30.68	---	74.00	54.00	-23.32	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11b)

Operation Mode	802.11b TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	36.45	---	-5.91	30.54	---	74.00	54.00	-23.46	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	48.51	---	-13.95	34.56	---	74.00	54.00	-19.44	Peak
4824.0	37.70	---	-6.01	31.69	---	74.00	54.00	-22.31	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4824.0	38.72	---	-6.01	32.71	---	74.00	54.00	-21.29	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		
24120.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1565.0	45.97	---	-14.09	31.88	---	74.00	54.00	-22.12	Peak
4874.0	35.99	---	-5.93	30.06	---	74.00	54.00	-23.94	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	37.03	---	-5.93	31.10	---	74.00	54.00	-22.90	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	42.92	---	-13.95	28.97	---	74.00	54.00	-25.03	Peak
4924.0	35.72	---	-5.91	29.81	---	74.00	54.00	-24.19	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g)

Operation Mode	802.11g TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	35.47	---	-5.91	29.56	---	74.00	54.00	-24.44	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1676.0	43.51	---	-13.69	29.82	---	74.00	54.00	-24.18	Peak
4824.0	35.74	---	-5.98	29.76	---	74.00	54.00	-24.24	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		
24120.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2412MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4824.0	36.34	---	-5.98	30.36	---	74.00	54.00	-23.64	Peak
7236.0	----					74.00	54.00		
9648.0	----					74.00	54.00		
12060.0	----					74.00	54.00		
14472.0	----					74.00	54.00		
16884.0	----					74.00	54.00		
19296.0	----					74.00	54.00		
21708.0	----					74.00	54.00		
24120.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	45.09	---	-13.95	31.14	---	74.00	54.00	-22.86	Peak
4874.0	36.81	---	-5.93	30.88	---	74.00	54.00	-23.12	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	35.34	---	-5.93	29.41	---	74.00	54.00	-24.59	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	41.21	---	-13.95	27.26	---	74.00	54.00	-26.74	Peak
4924.0	35.68	---	-5.91	29.77	---	74.00	54.00	-24.23	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) Combined

Operation Mode	802.11g/n_20M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2462MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4924.0	34.96	---	-5.91	29.05	---	74.00	54.00	-24.95	Peak
7386.0	----					74.00	54.00		
9848.0	----					74.00	54.00		
12310.0	----					74.00	54.00		
14772.0	----					74.00	54.00		
17234.0	----					74.00	54.00		
19696.0	----					74.00	54.00		
22158.0	----					74.00	54.00		
24620.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2422MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1565.0	42.96	---	-14.09	28.87	---	74.00	54.00	-25.13	Peak
4844.0	36.74	---	-5.98	30.76	---	74.00	54.00	-23.24	Peak
7266.0	----					74.00	54.00		
9688.0	----					74.00	54.00		
12110.0	----					74.00	54.00		
14532.0	----					74.00	54.00		
16954.0	----					74.00	54.00		
19376.0	----					74.00	54.00		
21798.0	----					74.00	54.00		
24220.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	2422MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4844.0	35.85	---	-5.98	29.87	---	74.00	54.00	-24.13	Peak
7266.0	----					74.00	54.00		
9688.0	----					74.00	54.00		
12110.0	----					74.00	54.00		
14532.0	----					74.00	54.00		
16954.0	----					74.00	54.00		
19376.0	----					74.00	54.00		
21798.0	----					74.00	54.00		
24220.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	36.29	---	-5.93	30.36	---	74.00	54.00	-23.64	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4874.0	35.51	---	-5.93	29.58	---	74.00	54.00	-24.42	Peak
7311.0	----					74.00	54.00		
9748.0	----					74.00	54.00		
12185.0	----					74.00	54.00		
14622.0	----					74.00	54.00		
17059.0	----					74.00	54.00		
19496.0	----					74.00	54.00		
21933.0	----					74.00	54.00		
24370.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2452MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	48.53	---	-13.95	34.58	---	74.00	54.00	-19.42	Peak
4904.0	35.46	---	-5.91	29.55	---	74.00	54.00	-24.45	Peak
7356.0	----					74.00	54.00		
9808.0	----					74.00	54.00		
12260.0	----					74.00	54.00		
14712.0	----					74.00	54.00		
17164.0	----					74.00	54.00		
19616.0	----					74.00	54.00		
22068.0	----					74.00	54.00		
24520.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) Combined

Operation Mode	802.11g/n_40M TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	2452MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
4904.0	36.24	---	-5.91	30.33	---	74.00	54.00	-23.67	Peak
7356.0	----					74.00	54.00		
9808.0	----					74.00	54.00		
12260.0	----					74.00	54.00		
14712.0	----					74.00	54.00		
17164.0	----					74.00	54.00		
19616.0	----					74.00	54.00		
22068.0	----					74.00	54.00		
24520.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a (DTS))

Operation Mode	802.11a (DTS) TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1596.00	41.61	---	-13.95	27.66	---	74.00	54.00	-26.34	Peak
11490.0	37.56	---	8.89	46.45	---	74.00	54.00	-7.55	Peak
17235.0	----					74.00	54.00		
22980.0	----					74.00	54.00		
28725.0	----					74.00	54.00		
34470.0	----					74.00	54.00		
40215.0	----					74.00	54.00		
45960.0	----					74.00	54.00		
51705.0	----					74.00	54.00		
57450.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a(DTS))

Operation Mode	802.11a (DTS)TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
11490.0	34.91	---	8.89	43.80	---	74.00	54.00	-10.20	Peak
17235.0		----					74.00	54.00	
22980.0		----					74.00	54.00	
28725.0		----					74.00	54.00	
34470.0		----					74.00	54.00	
40215.0		----					74.00	54.00	
45960.0		----					74.00	54.00	
51705.0		----					74.00	54.00	
57450.0		----					74.00	54.00	

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a (DTS))

Operation Mode	802.11a (DTS) TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1598.0	37.10	---	8.82	45.92	---	74.00	54.00	-8.08	Peak
11570.0	----					74.00	54.00		
17355.0	----					74.00	54.00		
23140.0	----					74.00	54.00		
28925.0	----					74.00	54.00		
34710.0	----					74.00	54.00		
40495.0	----					74.00	54.00		
46280.0	----					74.00	54.00		
52065.0	----					74.00	54.00		
57850.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a (DTS))

Operation Mode	802.11a (DTS) TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
11570.0	33.85	---	8.82	42.67	---	74.00	54.00	-11.33	Peak
17355.0	----					74.00	54.00		
23140.0	----					74.00	54.00		
28925.0	----					74.00	54.00		
34710.0	----					74.00	54.00		
40495.0	----					74.00	54.00		
46280.0	----					74.00	54.00		
52065.0	----					74.00	54.00		
57850.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a (DTS))

Operation Mode	802.11a (DTS) TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5825MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.00	49.99	---	-15.16	34.83	---	74.00	54.00	-19.17	Peak
11610.0	40.65	---	8.69	49.34	---	74.00	54.00	-4.66	Peak
17415.0	----					74.00	54.00		
23220.0	----					74.00	54.00		
29025.0	----					74.00	54.00		
34830.0	----					74.00	54.00		
40635.0	----					74.00	54.00		
46440.0	----					74.00	54.00		
52245.0	----					74.00	54.00		
58050.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a (DTS))

Operation Mode	802.11a (DTS) TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5825MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.50	48.15	---	-14.37	33.78	---	74.00	54.00	-20.22	Peak
11610.0	35.30	---	8.69	43.99	---	74.00	54.00	-10.01	Peak
17415.0	----					74.00	54.00		
23220.0	----					74.00	54.00		
29025.0	----					74.00	54.00		
34830.0	----					74.00	54.00		
40635.0	----					74.00	54.00		
46440.0	----					74.00	54.00		
52245.0	----					74.00	54.00		
58050.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.50	50.50	---	-14.37	36.13	---	74.00	54.00	-17.87	Peak
11490.0	39.76	---	8.89	48.65	---	74.00	54.00	-5.35	Peak
17235.0	----					74.00	54.00		
22980.0	----					74.00	54.00		
28725.0	----					74.00	54.00		
34470.0	----					74.00	54.00		
40215.0	----					74.00	54.00		
45960.0	----					74.00	54.00		
51705.0	----					74.00	54.00		
57450.0									

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5745MHz	Test By	Sky
Temperature	25 °C	Pol	Hor
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.5	49.07	---	-14.37	34.70	---	74.00	54.00	-19.30	Peak
11490.0	33.67	---	8.89	42.56	---	74.00	54.00	-11.44	Peak
17235.0	----					74.00	54.00		
22980.0	----					74.00	54.00		
28725.0	----					74.00	54.00		
34470.0	----					74.00	54.00		
40215.0	----					74.00	54.00		
45960.0	----					74.00	54.00		
51705.0	----					74.00	54.00		
57450.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.0	53.37	---	-15.16	38.21	---	74.00	54.00	-15.79	Peak
11570.0	39.54	---	8.82	48.36	---	74.00	54.00	-5.64	Peak
17355.0	----					74.00	54.00		
23140.0	----					74.00	54.00		
28925.0	----					74.00	54.00		
34710.0	----					74.00	54.00		
40495.0	----					74.00	54.00		
46280.0	----					74.00	54.00		
52065.0	----					74.00	54.00		
57850.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.5	48.17	---	-14.37	33.80	---	74.00	54.00	-20.20	Peak
11570.0	33.24	---	8.82	42.06	---	74.00	54.00	-11.94	Peak
17355.0	----					74.00	54.00		
23140.0	----					74.00	54.00		
28925.0	----					74.00	54.00		
34710.0	----					74.00	54.00		
40495.0	----					74.00	54.00		
46280.0	----					74.00	54.00		
52065.0	----					74.00	54.00		
57850.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5825MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.50	50.15	---	-14.37	35.78	---	74.00	54.00	-18.22	Peak
11650.0	40.65	---	8.69	49.34	---	74.00	54.00	-4.66	Peak
17475.0	----					74.00	54.00		
23300.0	----					74.00	54.00		
29125.0	----					74.00	54.00		
34950.0	----					74.00	54.00		
40775.0	----					74.00	54.00		
46600.0	----					74.00	54.00		
52425.0	----					74.00	54.00		
58250.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_20HT) Combined

Operation Mode	802.11a/n_20HT TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5825MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.50	48.30	---	-14.37	33.93	---	74.00	54.00	-20.07	Peak
11650.0	36.89	---	8.69	45.58	---	74.00	54.00	-8.42	Peak
17475.0	----					74.00	54.00		
23300.0	----					74.00	54.00		
29125.0	----					74.00	54.00		
34950.0	----					74.00	54.00		
40775.0	----					74.00	54.00		
46600.0	----					74.00	54.00		
52425.0	----					74.00	54.00		
58250.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT40) Combined

Operation Mode	802.11a/n_HT40 TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5755MHz	Test By	Sky
Temperature	25 °C	Pol	Ver
Humidity	65 %		

Freq. (MHz)	Peak	AV	Ant./CL CF(dB)	Actual FS		Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.50	50.20	---	-14.37	35.83	---	74.00	54.00	-18.17	Peak
11510.0	35.91	---	8.92	44.83	---	74.00	54.00	-9.17	Peak
17265.0	----					74.00	54.00		
23020.0	----					74.00	54.00		
28775.0	----					74.00	54.00		
34530.0	----					74.00	54.00		
40285.0	----					74.00	54.00		
46040.0	----					74.00	54.00		
51795.0	----					74.00	54.00		
57550.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT40) Combine

mode

Operation Mode	802.11 a/n_HT40 TX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5755MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)		Limit (dBuV/m)		
1500.5	48.00	---	-14.37	33.63	---	74.00	54.00	-20.37	Peak
11510.0	32.27	---	8.92	41.19	---	74.00	54.00	-12.81	Peak
17265.0	----					74.00	54.00		
23020.0	----					74.00	54.00		
28775.0	----					74.00	54.00		
34530.0	----					74.00	54.00		
40285.0	----					74.00	54.00		
46040.0	----					74.00	54.00		
51795.0	----					74.00	54.00		
57550.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT40) Combine

mode

Operation Mode	802.11 a/n_HT40 TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5795MHz	Test By	Sky
Temperature	25 °C	Pol	Ver.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.00	53.43	---	-15.16	38.27	---	74.00	54.00	-15.73	Peak
11590.0	36.90	---	8.78	45.68	---	74.00	54.00	-8.32	Peak
17385.0	----					74.00	54.00		
23180.0	----					74.00	54.00		
28975.0	----					74.00	54.00		
34770.0	----					74.00	54.00		
40565.0	----					74.00	54.00		
46360.0	----					74.00	54.00		
52155.0	----					74.00	54.00		
57950.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT40) Combine

mode

Operation Mode	802.11 a/n_HT40 TX CH High	Test Date	Feb. 03, 2010
Fundamental Frequency	5795MHz	Test By	Sky
Temperature	25 °C	Pol	Hor.
Humidity	65 %		

Freq. (MHz)	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV	Margin (dB)	Remark
	Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)		Limit (dBuV/m)		
1500.50	47.20	---	-14.37	32.83	---	74.00	54.00	-21.17	Peak
11590.0	33.63	---	8.78	42.41	---	74.00	54.00	-11.59	Peak
17385.0	----					74.00	54.00		
23180.0	----					74.00	54.00		
28975.0	----					74.00	54.00		
34770.0	----					74.00	54.00		
40565.0	----					74.00	54.00		
46360.0	----					74.00	54.00		
52155.0	----					74.00	54.00		
57950.0	----					74.00	54.00		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g) (worst case)

Operation Mode	802.11g RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.89	-26.67	26.22	40.00	-13.78
167.74	V	Peak	56.29	-27.76	28.53	43.50	-14.97
198.78	V	Peak	61.63	-31.30	30.33	43.50	-13.17
216.24	V	Peak	59.30	-30.90	28.40	46.00	-17.60
264.74	V	Peak	57.23	-29.48	27.75	46.00	-18.25
431.58	V	Peak	51.15	-25.29	25.86	46.00	-20.14
119.24	H	Peak	50.94	-28.89	22.05	43.50	-21.45
167.74	H	Peak	56.98	-27.76	29.22	43.50	-14.28
198.78	H	Peak	60.88	-31.30	29.58	43.50	-13.92
216.24	H	Peak	54.28	-30.90	23.38	46.00	-22.62
264.74	H	Peak	54.93	-29.48	25.45	46.00	-20.55
455.83	H	Peak	47.55	-24.95	22.60	46.00	-23.40

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11b) (worst case)

Operation Mode	802.11b RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.66	-26.67	25.99	40.00	-14.01
167.74	V	Peak	56.3	-27.76	28.54	43.50	-14.96
198.78	V	Peak	61.44	-31.30	30.14	43.50	-13.36
216.24	V	Peak	59.23	-30.90	28.33	46.00	-17.67
240.49	V	Peak	55.47	-29.89	25.58	46.00	-20.42
264.74	V	Peak	57.11	-29.48	27.63	46.00	-18.37
167.74	H	Peak	56.74	-27.76	28.98	43.50	-14.52
198.78	H	Peak	60.83	-31.30	29.53	43.50	-13.97
216.24	H	Peak	54.1	-30.90	23.20	46.00	-22.80
264.74	H	Peak	54.98	-29.48	25.50	46.00	-20.50
431.58	H	Peak	47.12	-25.29	21.83	46.00	-24.17
455.83	H	Peak	47.4	-24.95	22.45	46.00	-23.55

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g/n_20M) (worst case)

Operation Mode	802.11g/n RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.89	-26.67	26.22	40.00	-13.78
167.74	V	Peak	56.13	-27.76	28.37	43.50	-15.13
198.78	V	Peak	61.54	-31.30	30.24	43.50	-13.26
216.24	V	Peak	57.45	-30.90	26.55	46.00	-19.45
264.74	V	Peak	57.74	-29.48	28.26	46.00	-17.74
431.58	V	Peak	50.07	-25.29	24.78	46.00	-21.22
58.13	H	Peak	52.98	-26.67	26.31	40.00	-13.69
167.74	H	Peak	56.13	-27.76	28.37	43.50	-15.13
198.78	H	Peak	62.54	-31.30	31.24	43.50	-12.26
216.24	H	Peak	59.45	-30.90	28.55	46.00	-17.45
264.74	H	Peak	57.74	-29.48	28.26	46.00	-17.74
431.58	H	Peak	50.07	-25.29	24.78	46.00	-21.22

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g/n_40M) (worst case)

Operation Mode	802.11g/n_40M RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.35	-26.67	25.68	40.00	-14.32
167.74	V	Peak	56.14	-27.76	28.38	43.50	-15.12
198.76	V	Peak	62.34	-31.30	31.04	43.50	-12.46
216.24	V	Peak	59.07	-30.90	28.17	46.00	-17.83
267.74	V	Peak	57.53	-29.48	28.05	46.00	-17.95
431.58	V	Peak	49.53	-25.29	24.24	46.00	-21.76
167.74	H	Peak	56.97	-27.76	29.21	43.50	-14.29
198.78	H	Peak	61.33	-31.30	30.03	43.50	-13.47
216.24	H	Peak	54.65	-30.90	23.75	46.00	-22.25
264.74	H	Peak	54.82	-29.48	25.34	46.00	-20.66
431.58	H	Peak	47.11	-25.29	21.82	46.00	-24.18
455.83	H	Peak	47.91	-24.95	22.96	46.00	-23.04

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a(DTS)) (worst case)

Operation Mode	802.11a (DTS) RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	53.15	-26.67	26.48	40.00	-13.52
167.74	V	Peak	56.04	-27.76	28.28	43.50	-15.22
198.78	V	Peak	59.42	-31.30	28.12	43.50	-15.38
216.24	V	Peak	59.27	-30.90	28.37	46.00	-17.63
264.74	V	Peak	56.76	-29.48	27.28	46.00	-18.72
431.58	V	Peak	50.11	-25.29	24.82	46.00	-21.18
167.74	H	Peak	53.86	-27.76	26.10	43.50	-17.40
198.78	H	Peak	58.01	-31.30	26.71	43.50	-16.79
216.24	H	Peak	54.48	-30.90	23.58	46.00	-22.42
264.74	H	Peak	54.87	-29.48	25.39	46.00	-20.61
431.58	H	Peak	47.44	-25.29	22.15	46.00	-23.85
455.83	H	Peak	48.70	-24.95	23.75	46.00	-22.25

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11g/n_20HT) (worst case)

Operation Mode	802.11g/n RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	60.98	-26.54	34.44	40.00	-5.56
133.79	V	Peak	49.26	-27.59	21.67	43.50	-21.83
187.14	V	Peak	52.71	-29.50	23.21	43.50	-20.29
356.89	V	Peak	55.19	-25.72	29.47	46.00	-16.53
381.14	V	Peak	50.46	-25.25	25.21	46.00	-20.79
504.33	V	Peak	47.79	-23.39	24.40	46.00	-21.60
332.64	H	Peak	58.46	-26.15	32.31	46.00	-13.69
356.89	H	Peak	64.62	-25.72	38.90	46.00	-7.10
381.14	H	Peak	60.29	-25.25	35.04	46.00	-10.96
405.39	H	Peak	59.28	-24.75	34.53	46.00	-11.47
429.64	H	Peak	55.40	-24.35	31.05	46.00	-14.95
504.33	H	Peak	57.07	-23.39	33.68	46.00	-12.32

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz °
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (below 1GHz) (802.11a/n_HT40) (worst case)

Operation Mode	802.11a/n_HT40 RX CH Low	Test Date	Feb. 03, 2010
Fundamental Frequency	5510MHz	Test By	Sky
Temperature	25 °C	Pol	Ver./Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit3m (dBuV/m)	Safe Margin (dB)
58.13	V	Peak	52.60	-26.67	25.93	40.00	-14.07
167.74	V	Peak	55.31	-27.76	27.55	43.50	-15.95
198.78	V	Peak	59.49	-31.30	28.19	43.50	-15.31
216.24	V	Peak	59.18	-30.90	28.28	46.00	-17.72
264.74	V	Peak	57.17	-29.48	27.69	46.00	-18.31
431.58	V	Peak	49.81	-25.29	24.52	46.00	-21.48
167.74	H	Peak	54.62	-27.76	26.86	43.50	-16.64
198.78	H	Peak	59.13	-31.30	27.83	43.50	-15.67
216.24	H	Peak	54.08	-30.90	23.18	46.00	-22.82
264.74	H	Peak	54.69	-29.48	25.21	46.00	-20.79
431.58	H	Peak	47.44	-25.29	22.15	46.00	-23.85
455.83	H	Peak	47.60	-24.95	22.65	46.00	-23.35

Remark :

- 1 Measuring frequencies from 30 MHz to the 1GHz .
- 2 Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- 3 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11_b) (worst case)

Operation Mode	802.11b RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.5	V	49.18	---	-14.37	34.8	---	74.0	54.0	-19.19	Peak
4874.0	V	----					74.0	54.0		
7311.0	V	----					74.0	54.0		
9748.0	V	----					74.0	54.0		
12185.0	V	----					74.0	54.0		
14622.0	V	----					74.0	54.0		
1273.0	H	46.10	---	-15.16	30.9	---	74.0	54.0	-23.06	Peak
4874.0	H	----					74.0	54.0		
7311.0	H	----					74.0	54.0		
9748.0	H	----					74.0	54.0		
12185.0	H	----					74.0	54.0		
14622.0	H	----					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g) (worst case)

Operation Mode	802.11g RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.0	V	51.99	---	-15.16	36.8	---	74.0	54.0	-17.17	Peak
4874.0	V	----					74.0	54.0		
7311.0	V	----					74.0	54.0		
9748.0	V	----					74.0	54.0		
12185.0	V	----					74.0	54.0		
14622.0	V	----					74.0	54.0		
1273.0	H	45.71	---	-15.16	30.6	---	74.0	54.0	-23.45	Peak
4874.0	H	----					74.0	54.0		
7311.0	H	----					74.0	54.0		
9748.0	H	----					74.0	54.0		
12185.0	H	----					74.0	54.0		
14622.0	H	----					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_20M) (worst case)

Operation Mode	802.11g/n_20M RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.0	V	51.45	---	-15.16	36.3	---	74.0	54.0	-17.71	Peak
4874.0	V	----					74.0	54.0		
7311.0	V	----					74.0	54.0		
9748.0	V	----					74.0	54.0		
12185.0	V	----					74.0	54.0		
14622.0	V	----					74.0	54.0		
1351.0	H	46.42	---	-14.83	31.6	---	74.0	54.0	-22.41	Peak
4874.0	H	----					74.0	54.0		
7311.0	H	----					74.0	54.0		
9748.0	H	----					74.0	54.0		
12185.0	H	----					74.0	54.0		
14622.0	H	----					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11g/n_40M) (worst case)

Operation Mode	802.11g/n_40M RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	2437MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.0	V	52.28	---	-15.16	37.1	---	74.0	54.0	-16.88	Peak
4874.0	V	----					74.0	54.0		
7311.0	V	----					74.0	54.0		
9748.0	V	----					74.0	54.0		
12185.0	V	----					74.0	54.0		
14622.0	V	----					74.0	54.0		
1273.0	H	46.76	---	-15.16	31.6	---	74.0	54.0	-22.40	Peak
4874.0	H	----					74.0	54.0		
7311.0	H	----					74.0	54.0		
9748.0	H	----					74.0	54.0		
12185.0	H	----					74.0	54.0		
14622.0	H	----					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a_(DTS)) (worst case)

Operation Mode	802.11a (DTS) RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1500.5	V	48.43	---	-14.37	34.1	---	74.0	54.0	-19.94	Peak
11570.0	V	---					74.0	54.0		
17355.0	V	---					74.0	54.0		
23140.0	V	---					74.0	54.0		
28925.0	V	---					74.0	54.0		
34710.0	V	---					74.0	54.0		
1500.5	H	44.69	---	-14.37	30.3	---	74.0	54.0	-23.68	Peak
11570.0	H	---					74.0	54.0		
17355.0	H	---					74.0	54.0		
23140.0	H	---					74.0	54.0		
28925.0	H	---					74.0	54.0		
34710.0	H	---					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT20) (worst case)

Operation Mode	802.11a/n_HT20 RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5785MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak Limit (dBuV/m)	AV Limit (dBuV/m)	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)				
1273.0	V	51.62	---	-15.16	36.5	---	74.0	54.0	-17.54	Peak
11570.0	V	---					74.0	54.0		
17355.0	V	---					74.0	54.0		
23140.0	V	---					74.0	54.0		
28925.0	V	---					74.0	54.0		
34710.0	V	---					74.0	54.0		
1500.5	H	46.17	---	-14.37	31.8	---	74.0	54.0	-22.20	Peak
11570.0	H	---					74.0	54.0		
17355.0	H	---					74.0	54.0		
23140.0	H	---					74.0	54.0		
28925.0	H	---					74.0	54.0		
34710.0	H	---					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Radiated Spurious Emission Measurement Result (above 1GHz) (802.11a/n_HT40) (worst case)

Operation Mode	802.11a/n_HT40 RX CH Mid	Test Date	Feb. 03, 2010
Fundamental Frequency	5755MHz	Test By	Sky
Temperature	25 °C	Pol	Ver. / Hor.
Humidity	65 %		

Freq. (MHz)	Ant.Pol. H/V	Peak	AV	Actual FS Ant./CL CF(dB)	Peak	AV	Peak	AV	Margin (dB)	Remark
		Reading (dBuV)	Reading (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Limit (dBuV/m)	Limit (dBuV/m)		
1273.0	V	51.34	---	-15.16	36.2	---	74.0	54.0	-17.82	Peak
11510.0	V	---					74.0	54.0		
17265.0	V	---					74.0	54.0		
23020.0	V	---					74.0	54.0		
28775.0	V	---					74.0	54.0		
34530.0	V	---					74.0	54.0		
1500.0	H	46.36	---	-14.37	32.0	---	74.0	54.0	-22.01	Peak
11510.0	H	---					74.0	54.0		
17265.0	H	---					74.0	54.0		
23020.0	H	---					74.0	54.0		
28775.0	H	---					74.0	54.0		
34530.0	H	---					74.0	54.0		

Remark:

- 1 Measuring frequencies from 1GHz to the 10th harmonic of highest fundamental frequency.
- 2 Data of measurement within this frequency range shown “ - ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4 Spectrum Peak Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- 5 Spectrum AV Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

8. ANTENNA REQUIREMENT

8.1. Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be

replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some

field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the

proper antenna is employed so that the limits in this Part are not exceeded.

According to RSS-GEN 7.1.4, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on measurement or on data from the antenna manufacturer. Any antenna gain in excess of 6 dBi (6 dB above isotropic gain) shall be added to the measured RF output power before using the power limits specified in RSS-210 or RSS-310 for devices of RF output powers of 10 milliwatts or less. For devices of output powers greater than 10 milliwatts, except devices

subject to RSS-210 Annex 8 (Frequency Hopping and Digital Modulation Systems Operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz Bands) or RSS-210 Annex 9 (Local Area Network Devices), the total antenna gain shall be added to the measured RF output power before using the specified power limits. For devices subject to RSS-210 Annex 8 or Annex 9, the antenna gain shall not be added.

8.2. Antenna Connected Construction:

The directional gains of antenna used for transmitting is (Main): 1.74 dBi / (Aux):1.37 dBi for 2.4GHz, (Main) 2.81 dBi / (Aux):1.37 dBi 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.