FCC TEST REPORT

For

Notebook Computer

Model Number: A86, A86M, A0212

FCC ID: KXYA86

Report Number : WT098003518

Test Laboratory : Shenzhen Academy of Metrology and Quality Inspection

National Testing Center for Digital Electronic Products

Site Location : Bldg. Metrology and Quality Inspection, Longzhu Road,

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Test report declaration

Applicant : CHINA GREATWALL COMPUTER SHENZHEN CO., LTD.

Address Greatwall Bldg., Science & Industry Park, Nanshan District, Shenzhen,

P. R. China

Manufacturer : CHINA GREATWALL COMPUTER SHENZHEN CO., LTD.

Address Greatwall Bldg., Science & Industry Park, Nanshan District, Shenzhen,

P. R. China

EUT

Description : Notebook Computer

Model No : A86, A86M, A0212

Trade mark : Greatwall

Serial Number : (No)

FCC ID : KXYA86

Test Standards:

FCC Part 15B, Part 15C, §15.247, §15.107, §15.109, §15.203, §15.205, §15.207, §15.209;

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results. 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 FCC Rules Part 15.207, 15.209 and 15.247.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Project Engineer:	Sill Yi	Date:	2010-03-09
	(Bill Yi)		
Checked by:	for a	Date:	2010-03-09
	(Ryan Chen)		
Approved by:	petal	Date:	2010-03-09
	(Peter Lin)		

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1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

FCC Rules	Description of Test	Results
§15.247 (i), §1.1310(b) (1), §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§ 15.203, 15.247 (c)	Antenna Requirement	Compliant
§15.107(a), §15.207 (a)	Conducted Emissions	Compliant
§ 15.247 (d), §15.205, §15.109, §15.209	Radiated Emissions and Band edges	Compliant
§ 15.247 (a) (2)	6dB Bandwidth	Refer to 80815201-RP1 report FCC ID: TLZ-NU706
§ 15.247 (b) (3)	Maximum Peak Conducted Output Power	Refer to 80815201-RP1 report FCC ID: TLZ-NU706
§15.247(e)	Power Spectral Density	Refer to 80815201-RP1 report FCC ID: TLZ-NU706

Remark:

Device category: Mobile (WLAN antennae installed in the lid (display) which provides at least 20 cm separation from the user body with the lid open, at top of display section), refer to EUT photo please.

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[&]quot; N/A" means " Not applicable."

2. GENERAL INFORMATION

2.1. Report information

- 2.1.1.This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.
- 2.1.2.The sample/s mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3.Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at Bldg. of Metrology & Quality Inspection, Longzhu Road, Nanshan District, Shenzhen, Guangdong, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number are 97379(open area test site) and 274801(semi anechoic chamber).

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The Laboratory is listed in Voluntary Control Council for Interference by Information Technology Equipment (VCCI), and the registration number are R-1974(open area test site), R-1966(semi anechoic chamber), C-2117(mains ports conducted interference measurement) and T-180(telecommunication ports conducted interference measurement).

The Laboratory is registered to perform emission tests with Industry Canada (IC), and the registration number is IC4174.

TUV Rhineland accredits the Laboratory for conformance to IEC and EN standards, the registration number is E2024086Z02.

2.3. Measurement Uncertainty

Conducted Emission

9 kHz~30MHz 3.5dB

Radiated Emission

30MHz~1000MHz 4.5dB

1GHz~25GHz 4.6dB

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3. PRODUCT DESCRIPTION

3.1.EUT Description

Table 2 EUT Description

Description : Notebook Computer

Manufacturer : CHINA GREATWALL COMPUTER SHENZHEN CO., LTD.

Model Number : A86, A86M, A0212

Frequency Band : 2400 MHz~2483.5 MHz

802.11b/g/n(20MHz): 2412 MHz to 2462 MHz
Carrier Frequency:

· 802.11n(40MHz): 2422 MHz to 2452 MHz

DSSS: BPSK, QPSK, CCK;

Modulation : OFDM: BPSK, QPSK, 16QAM, 64QAM;

802.11b: DSSS; 1/2/5.5/11 Mbps

802.11g: OFDM; 6/9/12/18/24/36/48/54 Mbps

802.11n(20MHz): OFDM;

6.5/7.2/13/14.4/19.5/21.7/26/28.89/28.9/39/43.3/43.33/52/57.78 Data Rate :

/57.8/58.5/65.0/72.2/78/86.67/104/15.56/117/130/144.44 Mbps;

802.11n(40MHz): OFDM;

13.5/15/27/30/40.5/45/54/60/81/90/108/120/121.5/135/150/162/180/2

16/240/243/270/300 Mbps

Antenna Type/

: PIFA/ Omni-Directional

Pattern

Connector Type/

: I-PEX / 1.8dBi Max.

Maximum Gain

Antenna diversity 802.11n (20MHz/40MHz): 1 transmitter chain, and 2 receiver chains.

Power Type : From Host system

Model: ADP40S-1902100

Adaptor : Input: 100VAC ~240VAC, 50/60Hz, 1.5A

Output: 19VDC,2.1A

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Communication port : WLAN Port;

Remark:

- 1. The models are all the same in schematic diagram and critical components except for marketing strategy. So the A86 model was selected to test.
- 2. The CPU working frequency is at 1.6 GHz, and the WLAN RF frequency up to 2462 MHz.

Table 3 RF Carrier Frequency List (IEEE 802.11b/g/n (20MHz))

Channel	Center Frequency	Channel	Center Frequency
No.	(MHz)	No.	(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

Table 4 RF Carrier Frequency List (IEEE 802.11n (40MHz))

Channel	Center Frequency	Channel	Center Frequency
No.	(MHz)	No.	(MHz)
1	2422		
2	2427		
3	2432		
4	2437		
5	2442		
6	2447		
7	2452		

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3.2. Related Submittal(s) / Grant (s)

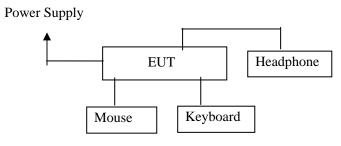
This Type approval report is prepared on behalf of Notebook Computer, in accordance with Part 2, Subpart J, Part 15, Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart B, Subpart C, and sections 15.107, 15.109, 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

3.3. Related Submittal(s) / Grant (s)

No related submittal(s).

3.4. Block Diagram of EUT Configuration



Test mode 1, 2, 3, 4, 5, 6

3.5. Operating Condition of EUT

Test mode 1: Run test program

Test mode 2: IEEE802.11b Transmitting

Test mode 3: IEEE802.11g Transmitting

Test mode 4: IEEE802.11n (20MHz) Transmitting

Test mode 5: IEEE802.11n (40MHz) Transmitting

Test mode 6: IEEE802.11b/g/n Receiving

3.6. Support Equipment List

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Table 5 Support Equipment List

Name	Model No	S/N	Manufacturer
Keyboard(PS/2)	SK-8811	01669394	IBM
Mouse(PS/2)	MU29J		IBM
Headphone			Great wall

3.7. Test Conditions

Date of test: 2009-09-10 to 2010-03-09

Date of EUT Receive: 2009-09-10

Temperature: 20-30 °C Relative Humidity: 45-60 %

3.8. Special Accessories

No available for this EUT intended for grant.

3.9. Equipment Modifications

No available for this EUT intended for grant.

3.10.Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

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4. TEST EQUIPMENT USED

Table 6 Test Equipment

No.	Equipment	Manufacturer	Model No.	Last Cal.	Cal. Interval
GD 2 60 2	71 G 7	P 1 1 0 C 1	Facasas	Y 22 2010	
SB2603	EMI Test Receiver	Rohde & Schwarz	ESCS30	Jan.23, 2010	1 Year
SB3321	AMN	Rohde & Schwarz	ESH2-Z5	Jan.23, 2010	1 Year
SB2604	AMN	Rohde & Schwarz	ESH3-Z5	Jan.23, 2010	1 Year
SB3436	EMI Test Receiver	Rohde & Schwarz	ESI26	Jan.23, 2010	1 Year
SB3440	Bilog Antenna	Chase	CBL6112B	Jan.23, 2010	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	Jan.23, 2010	1 Year
SB3435/01	Amplifier(1-18GHz)	Rohde & Schwarz		Jan.23, 2010	1 Year
SB3435/02	Amplifier(18-40GHz)	Rohde & Schwarz		May.03, 2009	1 Year
SB3435/03	Horn Antenna	Rohde & Schwarz	AT4560	May.03, 2009	1 Year
SB3450/01	3m Semi-anechoic chamber	Albatross Projects	9X6X6	Jan.30, 2010	2 Years
SB3437/02	Power probe	Rohde & Schwarz	URV5-Z2	Jan.23, 2010	1 Year
SB3437	Power meter	Rohde & Schwarz	NRVD	Jan.23, 2010	1 Year
	Power combiner	4226	Huatong	Jan.23, 2010	1 Year

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5. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

5.1. Test Standard and Limit

5.1.1.Test Standard

FCC §15.247 (i), §1.1310(b) (1), §2.1091

5.1.2.Test Limit

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

Radio frequency radiation exposure was calculated based on § 1.1310 limits.

Table 7: Limits for General Population/Uncontrolled Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m) Limits for G	Magnetic Field Strength (A/m) eneral Population/Uncont	Power Density (mW/cm²) rolled Exposure	Averaging Time (minute)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f²)	30
30-300	21.7	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

f = frequency in MHz

Note: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

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^{* =} Plane-wave equivalent power density

5.2. Test Data

Prediction of MPE limit at a given distance.

This EUT is a Notebook Computer, installed with one 802.11b/g/n (20/40MHz) wireless USB mini card inside (AW-NU706); and one WLAN antenna installed in the lid (display) which provides at least 20 cm separation from the user body with the lid open (at top of display section); please refer to 80815201-RP1 report, FCC ID: TLZ-NU706, i.e., 47 CFR FCC Part 15 Subpart C § 15.247.

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

Where: S = power density

P = power input to antenna

G = power gain of the antenna

R = distance to the center of radiation of the antenna

802.11b mode:

Maximum peak output power at antenna input terminal: 16.66dBm Maximum peak output power at antenna input terminal: 46.34mW

Prediction distance: 20 cm
Prediction frequency: 2412 MHz
Antenna gain (actual): 1.8dBi
Antenna gain (numeric): 1.51

Power density at the predication frequency at 20 cm: 0.014mW/cm²

802.11g mode:

Maximum peak output power at antenna input terminal: 17.58dBm Maximum peak output power at antenna input terminal: 57.28mW

Prediction distance: 20 cm
Prediction frequency: 2412 MHz
Antenna gain (actual): 1.8dBi
Antenna gain (numeric): 1.51

Power density at the predication frequency at 20 cm: 0.017mW/cm²

802.11n (20MHz) mode:

Maximum peak output power at antenna input terminal: 16.31dBm Maximum peak output power at antenna input terminal: 42.76mW

Prediction distance: 20 cm
Prediction frequency: 2412 MHz
Antenna gain (actual): 1.8dBi
Antenna gain (numeric): 1.51

Power density at the predication frequency at 20 cm: 0.013mW/cm²

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802.11n (40MHz) mode:

Maximum peak output power at antenna input terminal: 14.24dBm Maximum peak output power at antenna input terminal: 26.55mW

Prediction distance: 20 cm
Prediction frequency: 2422 MHz
Antenna gain (actual): 1.8dBi
Antenna gain (numeric): 1.51

Power density at the predication frequency at 20 cm: 0.008mW/cm²

Test Results: All of above results are compliance with the limit of 1.0 mW/cm²

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6. ANTENNA REQUIREMENT

6.1. Test Standard and Limit

6.1.1.Test Standard

FCC § 15.203, §15.247 (c)

6.1.2.Test Limit

According to § 15.203, 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria: Antenna must be permanently attached to the unit.

Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

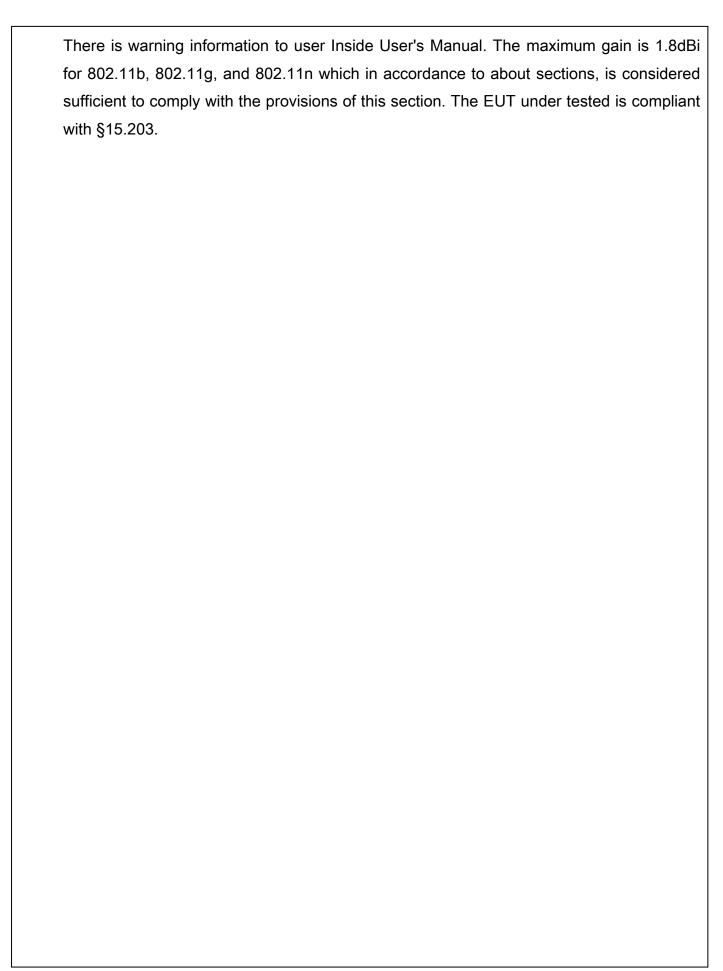
And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

6.2. Result

Compliance

The EUT has a component antenna which, in accordance to the above sections, is considered sufficient to comply with the provisions of these sections. Please see EUT photo for details.

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7. CONDUCTED DISTURBANCE TEST

7.1. Test Standard and Limit

7.1.1.Test Standard

FCC Part 15, §15.107(a), §15.207(a)

7.1.2.Test Limit

Table 8 Conducted Disturbance Test Limit

Fraguency	Maximum RF Line Voltage (dBμV)		
Frequency	Quasi-peak Level	Average Level	
150kHz~500kHz	66 ~ 56 *	56 ~ 46 *	
500kHz~5MHz	56	46	
5MHz~30MHz	60	50	

^{*} Decreasing linearly with logarithm of the frequency

7.2. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). An EMI test receiver (R&S Test Receiver ESCS30) is used to test the emissions form both sides of AC line. 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. The bandwidth of EMI test receiver is set at 9 kHz.

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^{*} The lower limit shall apply at the transition frequency.

7.3. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

7.4. Test Data

The emissions don't show in below are too low against the limits. Refer to the test curves.

Table 9 Conducted Disturbance Test Data

Test Date	September 11, 2009	Temperature	25	°C
		Humidity	51	%
Test Result	Pass	Atmosphere Pressure	100.5	kPa
		Test Port	AC Por	t
Test Mode	Run Test Program	·	-	

Test Mode	Run Test Program

	Line							Neutral						
From	Readings		Limit		Margin		From	Readings		Lin	nit	Margin		
Freq.	QP	AV	QP	AV	QP	AV	Freq.	QP	AV	QP	AV	QP	AV	
MHz	dΒμV	dBμV	dBμV	dBμV	dB	dB	MHz	dBμV	dΒμV	dBμV	dBμV	dB	dB	
0.190	48.9	41.9	64.0	54.0	-15.1	-12.1	0.190	45.7	35.4	64.0	54.0	-18.3	-18.6	
0.266	43.7	33.7	61.2	51.2	-17.5	-17.5	0.266	41.5	32.3	61.2	51.2	-19.7	-18.9	
2.230	31.8	17.6	56.0	46.0	-24.2	-28.4	0.842	38.6	29.5	56.0	46.0	-17.4	-16.5	
2.480	32.6	19.9	56.0	46.0	-23.4	-26.1	1.510	33.4	26.8	56.0	46.0	-22.6	-19.2	
14.320	27.3	18.8	60.0	50.0	-32.7	-31.2	2.683	37.9	31.5	56.0	46.0	-18.1	-14.5	
20.110	30.4	19.3	60.0	50.0	-29.6	-30.7	21.930	36.8	29.4	60.0	50.0	-23.2	-20.6	

REMARKS:

- 1. Emission level ($dB\mu V$) =Read Value ($dB\mu V$) + Correction Factor (dB)
- 2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit

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Table 10 Conducted Disturbance Test Data

Test Date	November 4, 2009	Temperature	24	°C
		Humidity	33	%
Test Result	Pass	Atmosphere Pressure	102.1	kPa
		Test Port	AC Por	t
Test Mode	802.11b Tx/Rx	•	•	

2.11b Tx/Rx

	Line							Neutral						
	Readings		Limit		Margin		From	Readings		Lin	nit	Margin		
Freq.	QP	AV	QP	AV	QP	AV	Freq.	QP	AV	QP	AV	QP	AV	
MHz	dΒμV	dBμV	dBμV	dBμV	dB	dB	MHz	dBμV	dBμV	dBμV	dBμV	dB	dB	
0.150	35.8	13.3	66.0	56.0	-30.2	-42.7	0.198	45.7	34.8	63.7	53.7	-18.0	-18.9	
0.194	45.8	31.6	63.9	53.9	-18.1	-22.3	0.407	38.3	28.1	57.7	47.7	-19.4	-19.6	
0.525	37.8	30.5	56.0	46.0	-18.2	-15.5	0.466	38.5	28.4	56.6	46.6	-18.1	-18.2	
2.480	30.5	18.2	56.0	46.0	-25.5	-27.8	2.515	29.5	15.3	56.0	46.0	-26.5	-30.7	
12.065	39.4	39.1	60.0	50.0	-20.6	-10.9	20.905	39.2	32.8	60.0	50.0	-20.8	-17.2	
24.590	35.6	28.7	60.0	50.0	-24.4	-21.3	23.560	38.2	31.6	60.0	50.0	-21.8	-18.4	

- 1. Emission level (dB μ V) =Read Value (dB μ V) + Correction Factor (dB)
- 2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit

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Table 11 Conducted Disturbance Test Data

Test Date	November 4, 2009	Temperature	24	°C
		Humidity	33	%
Test Result	Pass	Atmosphere Pressure	102.1	kPa
		Test Port	AC Por	t
Test Mode	802.11g Tx/Rx	·	•	

	Line							Neutral						
From	Readings		Limit		Margin		From	Readi	ngs	Lir	nit	Margin		
Freq.	QP	AV	QP	AV	QP	AV	Freq.	QP	AV	QP	AV	QP	AV	
MHz	dΒμV	dBμV	dΒμV	dBμV	dB	dB	MHz	dΒμV	dΒμV	dBμV	dBμV	dB	dB	
0.194	43.8	29.1	63.9	53.9	-20.1	-24.8	0.194	45.1	30.5	63.9	53.9	-18.8	-23.4	
0.466	40.7	33.0	56.6	46.6	-15.9	-13.6	0.458	40.5	32.4	56.7	46.7	-16.2	-14.3	
0.750	34.0	19.2	56.0	46.0	-22.0	-26.8	0.525	38.4	29.8	56.0	46.0	-17.6	-16.2	
2.330	30.5	15.4	56.0	46.0	-25.5	-30.6	2.450	29.6	15.7	56.0	46.0	-26.4	-30.3	
20.785	36.5	30.4	60.0	50.0	-23.5	-19.6	20.575	38.6	32.7	60.0	50.0	-21.4	-17.3	
23.205	33.8	27.6	60.0	50.0	-26.2	-22.4	23.325	36.8	30.8	60.0	50.0	-23.2	-19.2	

- 1. Emission level (dB μ V) =Read Value (dB μ V) + Correction Factor (dB)
- 2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit

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Table 12 Conducted Disturbance Test Data

Test Date	November 4, 2009	Temperature	24	°C
		Humidity	33	%
Test Result	Pass	Atmosphere Pressure	102.1	kPa
		Test Port	AC Por	t
Test Mode	802.11 n (20MHz) T	x/Rx		

	Line							Neutral						
	Readings		Limit		Margin		Биси	Readings		Lin	nit	Margin		
Freq.	QP	AV	QP	AV	QP	AV	Freq.	QP	AV	QP	AV	QP	AV	
MHz	dΒμV	dBμV	dBμV	dBμV	dB	dB	MHz	dBμV	dΒμV	dBμV	dBμV	dB	dB	
0.194	43.7	29.3	63.9	53.9	-20.2	-24.6	0.194	44.2	29.8	63.9	53.9	-19.7	-24.1	
0.478	39.8	27.5	56.4	46.4	-16.6	-18.9	0.262	39.1	27.9	61.4	51.4	-22.3	-23.5	
2.435	30.3	17.5	56.0	46.0	-25.7	-28.5	0.474	41.6	31.9	56.4	46.4	-14.8	-14.5	
12.065	39.2	39.0	60.0	50.0	-20.8	-11.0	1.345	33.8	18.6	56.0	46.0	-22.2	-27.4	
21.815	36.8	31.1	60.0	50.0	-23.2	-18.9	12.065	40.3	39.9	60.0	50.0	-19.7	-10.1	
24.130	39.6	38.5	60.0	50.0	-20.4	-11.5	20.645	44.2	31.8	60.0	50.0	-15.8	-18.2	

- 1. Emission level (dB μ V) =Read Value (dB μ V) + Correction Factor (dB)
- 2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit

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Table 13 Conducted Disturbance Test Data

Test Date	November 4, 2009	Temperature	24	°C
		Humidity	33	%
Test Result	Pass	Atmosphere Pressure	102.1	kPa
		Test Port	AC Por	t
Test Mode	802.11 n (40MHz) T	x/Rx	•	

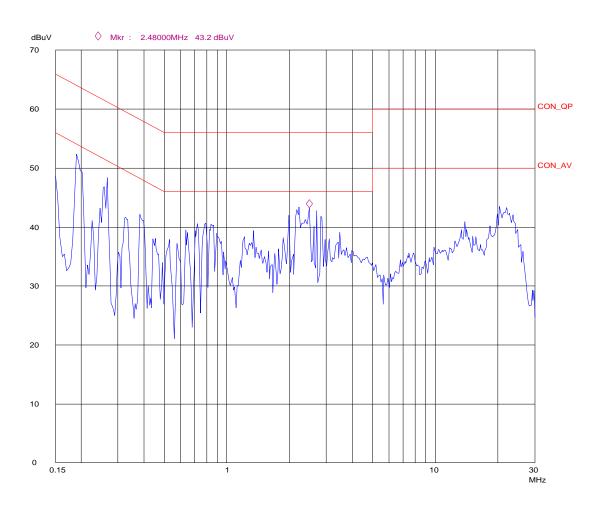
	Line							Neutral						
	Readings		Limit		Margin		F===	Readings		Lin	nit	Margin		
Freq.	QP	AV	QP	AV	QP	AV	Freq.	QP	AV	QP	AV	QP	AV	
MHz	dΒμV	dBμV	dΒμV	dBμV	dB	dB	MHz	dBμV	dΒμV	dBμV	dBμV	dB	dB	
0.194	43.8	29.4	63.9	53.9	-20.1	-24.5	0.198	44.5	33.2	63.7	53.7	-19.2	-20.5	
0.466	40.6	33.1	56.6	46.6	-16.0	-13.5	0.470	41.4	33.4	56.5	46.5	-15.1	-13.1	
1.330	32.9	17.3	56.0	46.0	-23.1	-28.7	2.480	30.8	16.1	56.0	46.0	-25.2	-29.9	
2.100	30.2	18.0	56.0	46.0	-25.8	-28.0	12.065	40.1	39.9	60.0	50.0	-19.9	-10.1	
12.065	39.4	39.0	60.0	50.0	-20.6	-11.0	18.100	38.9	36.7	60.0	50.0	-21.1	-13.3	
22.510	36.0	30.1	60.0	50.0	-24.0	-19.9	20.860	37.2	31.1	60.0	50.0	-22.8	-18.9	

- 1. Emission level (dB μ V) =Read Value (dB μ V) + Correction Factor (dB)
- 2. Correction Factor (dB) =LISN Factor (dB) + Cable Factor (dB) +Limiter Factor (dB)
- 3. The other emission levels were very low against the limit.
- 4. Margin value = Emission level Limit

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EUT: M/N:A86

Op Cond: Run test program
Test Spec: L
Comment: AC 120V/60Hz

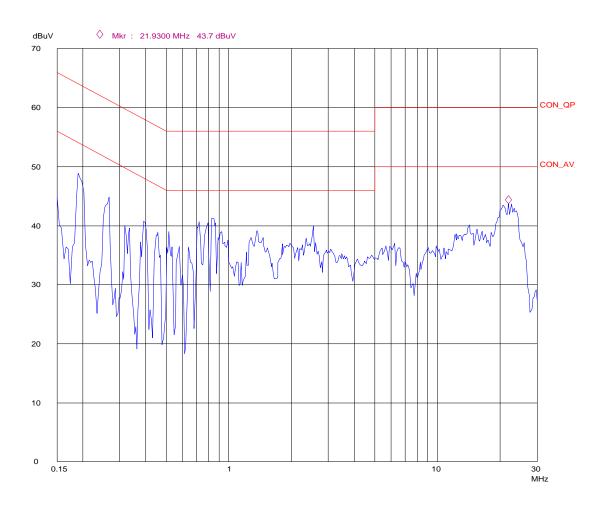


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EUT: M/N:A86

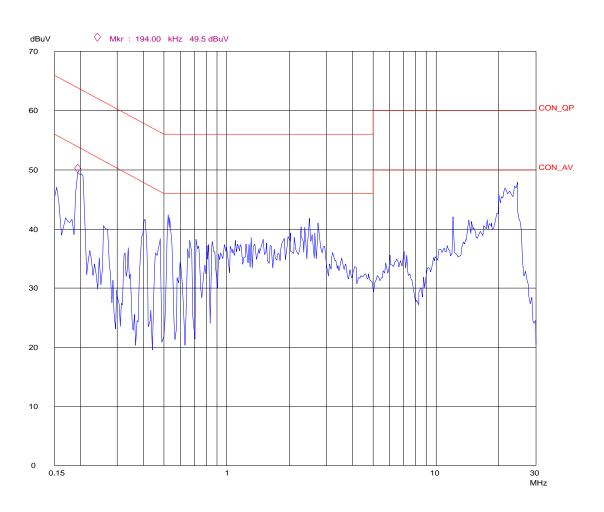
Op Cond: Run test program
Test Spec: N

Comment: AC 120V/60Hz



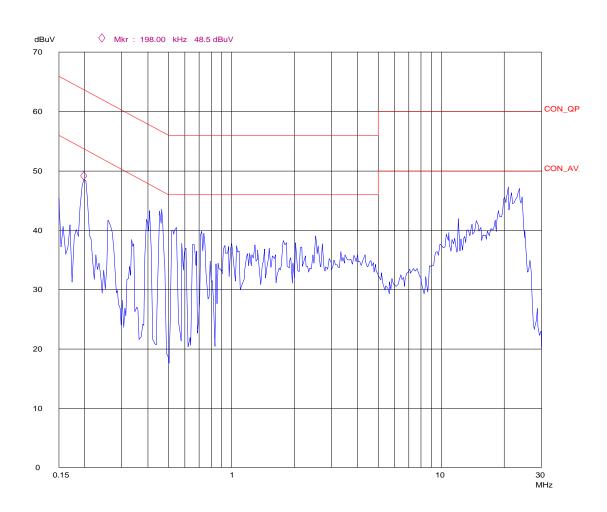
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EUT: A86
Op Cond: 802.11b Tx/Rx
Test Spec: L
Comment: AC 120V/60Hz



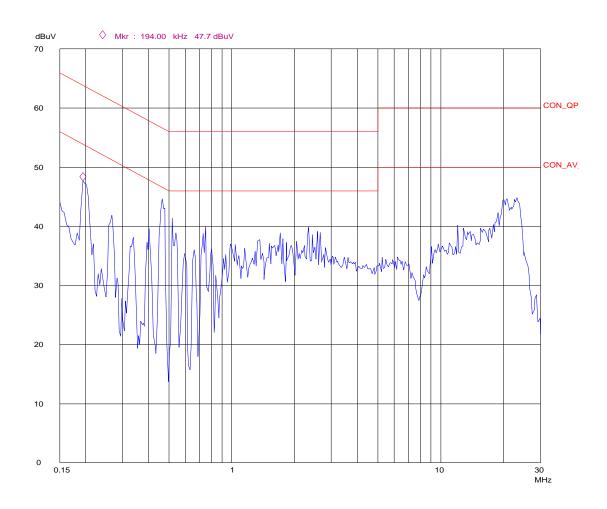
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EUT: A86
Op Cond: 802.11b Tx/Rx
Test Spec: N
Comment: AC 120V/60Hz



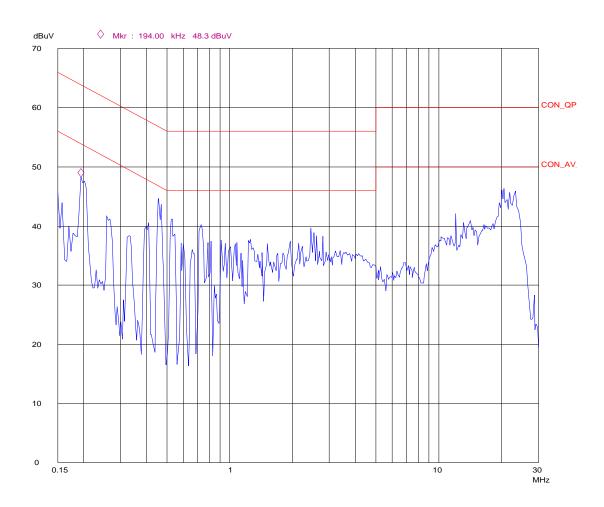
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EUT: A86
Op Cond: 802.11g Tx/Rx
Test Spec: L
Comment: AC 120V/60Hz



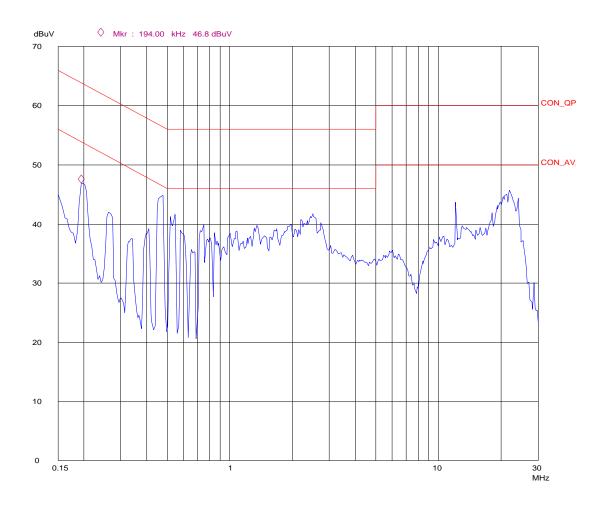
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EUT: A86
Op Cond: 802.11g Tx/Rx
Test Spec: N
Comment: AC 120V/60Hz



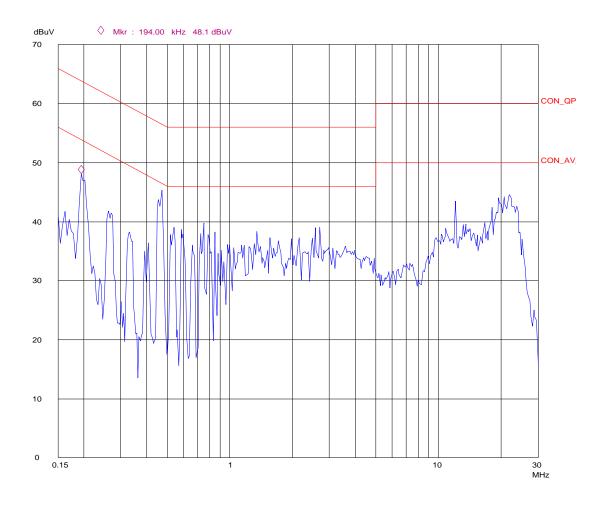
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EUT: Op Cond: Test Spec: Comment: A86 802.11n(20MHz) Tx/Rx L AC 120V/60Hz



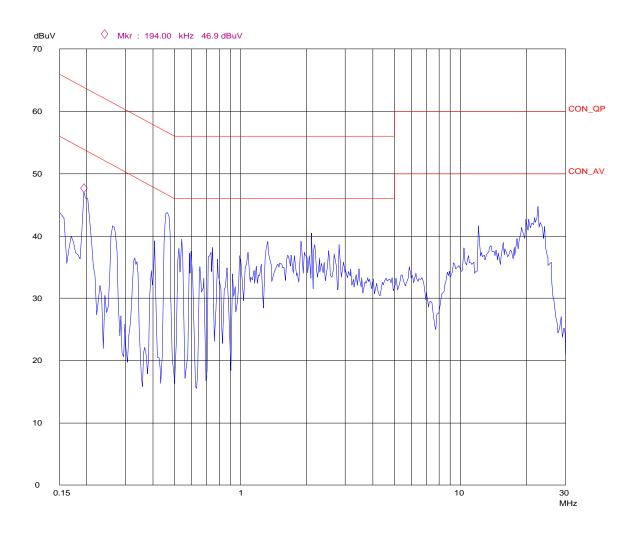
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EUT: Op Cond: Test Spec: Comment: A86 802.11n(20MHz) Tx/Rx N AC 120V/60Hz



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EUT: A86
Op Cond: 802.11n(40MHz) Tx/Rx
Test Spec: L
Comment: AC 120V/60Hz

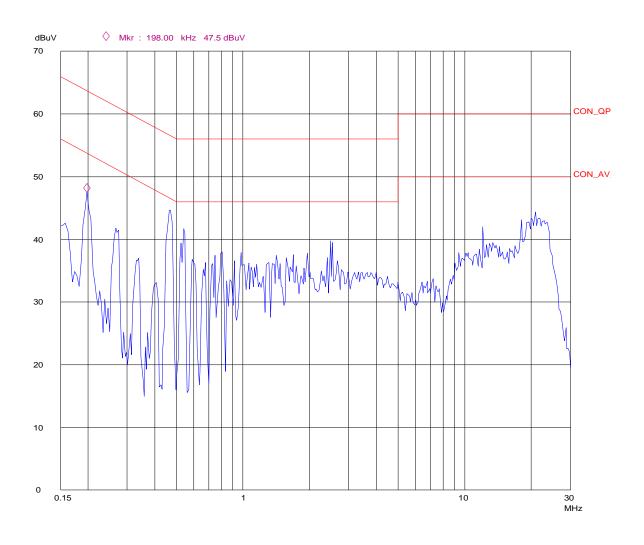


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EUT: Op Cond: Test Spec: Comment:

802.11n(40MHz) Tx/Rx

N AC 120V/60Hz



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8. RADIATED EMISSIONS AND BAND EDGES

8.1. Test Standard and Limit

8.1.1.Test Standard

FCC Part 15, §15.247 (d), §15.205, §15.109, §15.209

8.1.2.Test Limit

According to FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

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Table 14 Restricted Band Radiated Emission Data

MHz	MHz	MHz	GHz
0.090 - 0.110 0.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5

Except as shown in table 9 to table 15, all other emission of the above band were less than the limit 20dB.

8.2. Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 4.6 dB.

8.3. Test Procedure

The EUT is placed on a turntable, which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3 meters away from the receiving antenna, which is mounted on an antenna tower.

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The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

Test Setup

Channel Setup: Execute this AW-NU706 software, selecting every operating mode (802.11b, 802.11g, 802.11n-20MHz, 802.11n-40MHz), related Channel, BW, rate, and the maximum RF power, etc.

Software: ATE_test_tool_SOP_TXRX__for_AW-NU706

Set the spectrum analyzer in the following setting

Radiated emission below 1GHz: RBW=100 kHz/VBW=300 kHz, Sweep=AUTO

Radiated emission above 1GHz: PEAK:

RBW=1MHz, VBW=1MHz, Sweep=AUTO

Radiated emission above 1GHz: AVERAGE;

RBW=1MHz, VBW=10Hz, Sweep=AUTO

Repeat above procedures until the measurements for all frequencies are complete.

8.4. Test Arrangement

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application. The detailed information refers to test picture.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

The EUT was connected to a 120 VAC/60 Hz power source.

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8.5. Test Data

Radiated Emissions: PASS

Band edges: PASS

This EUT is a Notebook Computer, installed with one 802.11b/g/n (20/40MHz) wireless USB mini card, AW-NU706 inside;

The radiated emission tests were performed in accordance with the ANSI C63.4-2003. The specification used was the FCC 15.109, FCC 15.209 and FCC 15.247 limits.

Note: Emissions don't show below are too low against the limits.

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Table 15 Radiated Emission Test Data (Below 1GHz)

Toot Date		Navambar 1	7 2000		Tem	perature		22	°(C	
Test Date)	November 1	7, 2009		Hun	nidity		47	9,	6	
T 15					Atm	osphere Pi	ressure	100.7	kF	Pa	
Test Res	ult	Pass			Test	t Port		Enclosure			
								Class A		Class B	
Test mod	е	Run test pro	gram		Category			10m		3m	
F	Cable	Antenna	D din		Level Polarity Turntable			Antenna	1 !!4-	Manaia	
Freq.	Loss	Factor	Readings	Lev	/ei	Polarity	Angle	Height	Limits	Margin	
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)	
106.311	1.6	12.7	16.4	30.7	7	V	101	1.2	43.5	12.8	
131.972	1.9	12.3	19.0	33.2	2	V	61	1.0	43.5	10.3	
168.097	2.2	10.6	21.4	34.2	2	V	147	1.3	43.5	9.3	
307.210	2.9	13.8	23.3	40.0)	V	265	1.1	46.0	6.0	
440.275	3.4	16.9	16.4	36.7	7	V	133	1.0	46.0	9.3	
528.975	3.8	17.7	13.7	35.2	2	V	5	1.0	46.0	10.8	
95.759	1.6	11.5	17.1	30.2	2	Н	224	1.6	43.5	13.3	
106.112	1.6	12.7	19.4	33.7	7	Н	345	1.6	43.5	9.8	
274.597	2.8	13.3	16.8	32.9	9	Н	230	1.2	46.0	13.1	
307.210	2.9	13.8	22.2	38.9	9	Н	291	1.1	46.0	7.1	
395.010	3.2	16.5	15.5	35.2	2	Н	312	1.0	46.0	10.8	
799.509	4.8	20.1	12.6	37.5	5	Н	209	1.0	46.0	8.5	

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level ($dB\mu V/m$) =Read Value ($dB\mu V$) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Table 16 Radiated Emission Test Data (Above 1GHz)

Tool Date	November 17	2000	Temperature)	2	22		$^{\circ}\! \mathbb{C}$
Test Date	November 17,	2009	Humidity		2	47		%
Test Result	Pass		Atmosphere	Pressure	10	0.7		kPa
Test Result	F d 5 5		Test Port			Е	nclosure)
Toot made	Dun toot progr	om	Cotogony		Class A		Cla	ss B
Test mode	Run test progr	am	Category		10m		3m	
Frequency	Measuring Type	Receiver An	tenna Polarity	Field Strer	ngth		Limits	Test
(MHz)	(PK/AV)	(H	I/V)	(dBµ V@3	3m)	(dB	μV@3m)	Result
1500.010	PK	,	V	46.3			74	Pass
1500.010	AV	,	V	42.8			54	Pass
1500.010	PK		Н	46.3			74	Pass
1500.010	AV		Н	41.9			54	Pass
1	1		1	1			1	1
/	/		1	1			1	1

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level (dBµV/m) =Read Value (dBµV) + Correction Factor (dB/m)
- 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. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

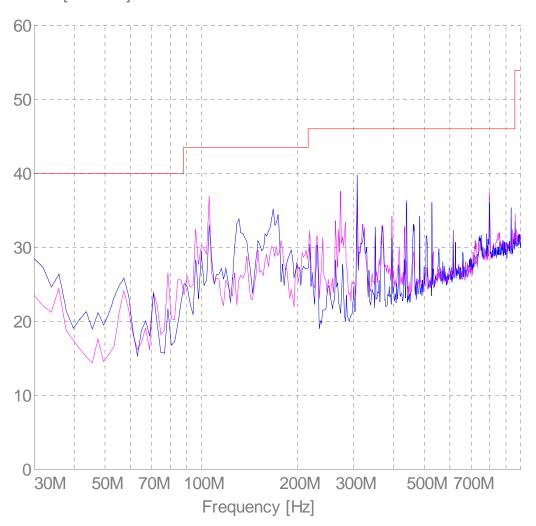
EUT: Notebook Computer

M/N: A86

Operating Condition: Run test program
Test Site: SMQ EMC Lab. SAC
Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz





MES A86 LV

MES A86 LH

-LIM FCC ClassB F QP FCC ClassB, field strength

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Radiated Emission (above 1GHz)

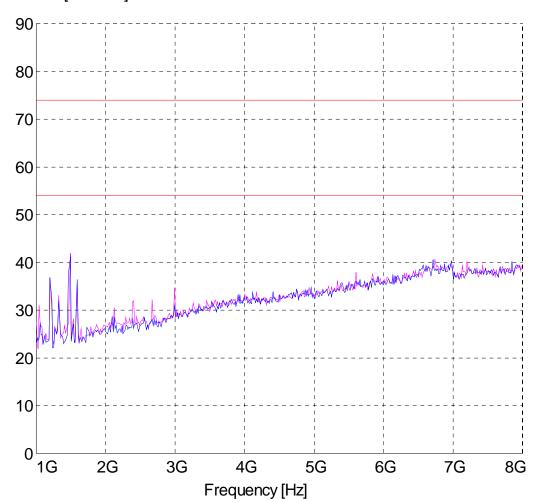
EUT: Notebook Computer

M/N: A86

Operating Condition: Run test program
Test Site: SMQ EMC Lab. SAC
Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz

Level [dBuV/m]



MES A86 HH

MES A86 HV

LIM FCC ClassB PK F
LIM FCC class B AV F

FCC ClassB, field strength FCC ClassB, field strength

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Table 17 Radiated Emission Test Data (Below 1GHz)

Toot Date		November 6	2000		Tem	perature		24	°(C		
Test Date)	November 6	, 2009		Hun	nidity		60	9,	6		
T 15		1			Atm	osphere Pi	ressure	101.4	kF	Pa		
Test Res	ult	Pass			Test	t Port		E	Enclosure	closure		
Test mod	e	802.11b Tx		Category				Class A 10m	Class B 3m			
Freq.	Cable	Antenna	Readings	Level Polarity Turntable				Antenna	Limits	Morgin		
Freq.	Loss	Factor	Readings	Lev	rei	Polarity	Angle	Height	Limits	Margin		
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)		
36.172	1.2	15.3	13.1	29.6	3	V	45	1.0	40.0	10.4		
125.246	1.9	12.6	13.2	27.6	3	V	311	1.3	43.5	15.9		
175.595	2.2	10.1	18.6	30.9	9	V	84	1.1	43.5	12.6		
307.188	2.9	13.8	23.9	40.6	ŝ	V	272	1.0	46.0	5.4		
395.010	3.2	16.5	11.9	31.6	ŝ	V	231	1.3	46.0	14.4		
800.010	4.8	20.2	4.3	29.3	3	V	29	1.2	46.0	16.7		
60.312	1.4	5.9	18.4	25.7	7	Н	354	1.8	40.0	14.3		
78.410	1.4	9.0	18.5	28.9	9	Н	181	1.7	40.0	11.1		
105.911	1.6	12.7	18.2	32.	5	Н	244	1.6	43.5	11.0		
263.310	2.8	13.7	20.4	36.9	9	Н	331	1.2	46.0	9.1		
307.208	2.9	13.8	27.3	44.0	0	Н	162	1.1	46.0	2.0		
351.092	3.2	15.9	18.3	37.4	4	Н	88	1.1	46.0	8.6		

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

EUT: Notebook Computer

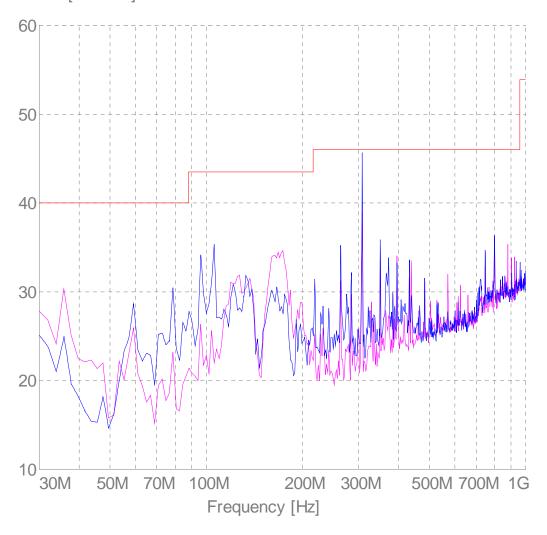
M/N: A86

Operating Condition: TX 802.11b

Test Site: SMQ EMC Lab. SAC Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz





MES A86 11b TX LHMES A86 11b TX LV

LIM FCC ClassB F QP FCC ClassB, field strength

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Table 18 Radiated Emission Test Data (Above 1GHz)

Toot Date	Navanahan 47, 20	.	Temperature		22		$^{\circ}$	
Test Date	November 17, 20	109	Humidity		47			%
T (D)	_		Atmosphere Pressi	ıre	100.	.7		kPa
Test Result	Pass		Test Port			Enclos	ure	
					Class A	С	lass B	\boxtimes
Test mode	802.11b Tx		Category		10m	3ı	m	$\overline{\square}$
Frequency	Measuring Type	Rece	eiver Antenna Polarity	Field	Strength	Limits		Test
(MHz)	(PK/AV)	(H/V)		(dBµ	V@3m)	(dBµV@3m)		Result
Lower CH (2412 N	MHz)	ı						1
4824	PK	V		53.2		74		Pass
4824	AV		V	4	9.4	54		Pass
4824	PK		Н	4	9.6	74		Pass
4824	AV		Н	4	2.6	54		Pass
/	/		/	/		1		/
/	/		/		1	1		/
Middle CH (2437	MHz)							
4874	PK		V	5	53.8	74		Pass
4874	AV		V	5	50.0	54		Pass
4874	PK		Н	5	50.0			Pass
4874	AV		Н	4	3.2	54		Pass
/	/		1		/	1		/
/	/		1		/	1		/
Higher CH (2462 l	MHz)							
4924	PK		V	4	8.9	74		Pass
4924	AV		V	3	9.6	54		Pass
4924	PK	Н		H 47.2		74		Pass
4924	AV	Н		H 34.8 54			Pass	
1	/	1		1 1 1			1	
/	/		1		1	1		1

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level (dB μ V/m) =Read Value (dB μ V) + Correction Factor (dB/m)
- 3. Data of measurement within this frequency range shown " /" in the table above means the

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reading of emissions are attenuated more than 20dB below the permissible limits, or the field strength is too small to be measured.

4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

Table 19 Radiated Emission Test Data (Below 1GHz)

Toot Date	Test Date November 6, 2009				Tem	perature		24	°(С	
l est Date	;	ivoveilibei o	, 2009		Hun	nidity		60	9	6	
Tool Door	.14	D			Atm	osphere Pi	essure	101.4	kF	Pa	
Test Res	uit	Pass			Test	Port		Enclosure			
								Class A		Class B	
Test mod	Cable Antenna Readings				Cate	egory		10m		3m	
Freq.	Cable	Antenna	Peadings	Lev	امر	Polarity	Turntable	Antenna	Limits	Margin	
rieq.	Loss	Factor	Readings	LGV	GI	Folality	Angle	Height	Lillius	iviaigiii	
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)	
130.831	1.9	12.3	15.3	29.5	5	V	255	1.0	43.5	14.0	
263.330	2.8	13.7	16.7	33.2	2	V	334	1.2	46.0	12.8	
307.210	2.9	13.8	25.7	42.4	4	V	77	1.2	46.0	3.6	
360.030	3.2	15.9	21.1	40.2	2	V	307	1.2	46.0	5.8	
600.010	4.1	18.8	17.1	40.0)	V	294	1.3	46.0	6.0	
840.010	5.0	20.5	17.8	43.2	2	V	137	1.2	46.0	2.8	
100.010	1.6	12.3	19.6	33.5	5	Н	142	1.6	43.5	10.0	
282.291	2.8	13.4	16.5	32.7	7	Н	212	1.2	46.0	13.3	
307.188	2.9	13.8	26.0	42.7	7	Н	324	1.1	46.0	3.3	
351.092	3.2	15.9	17.7	36.8	3	Н	226	1.1	46.0	9.2	
600.010	4.1	18.8	22.4	45.3	3	Н	177	1.0	46.0	0.7	
840.030	5.0	20.5	19.9	45.3	3	Н	318	1.0	46.0	0.7	

REMARKS:

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

EUT: Notebook Computer

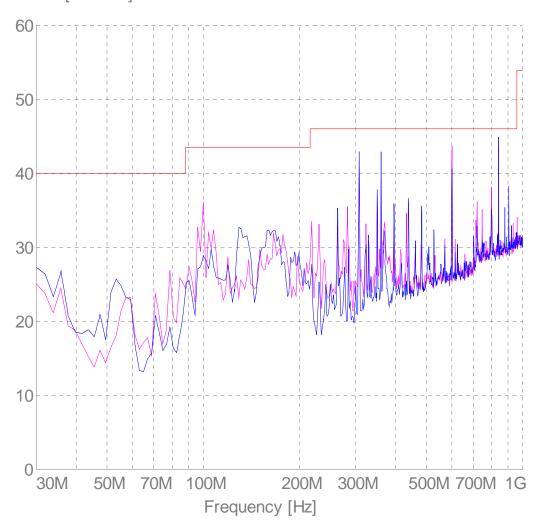
M/N: A86

Operating Condition: TX 802.11g

Test Site: SMQ EMC Lab. SAC Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz





MES A86 11g TX LV

MES A86 11g TX LH

-LIM FCC ClassB F QP FCC ClassB, field strength

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Table 20 Radiated Emission Test Data (Above 1GHz)

Took Doko	Navanahan 1	7 2000	Temperature		22	!	°	C
Test Date	November 1	7, 2009	Humidity		47	•	Ç	%
Took Dooulk	Dana		Atmosphere Pr	essure	100	.7	kl	⊃a
Test Result	Pass		Test Port			Enclos	sure	
Test mode	000 44a Tv		Cotogony		Class A	С	lass B	
rest mode	802.11g Tx		Category		10m	3r	n 📐	
Frequency	Measuring	Receiver A	Antenna Polarity	Field Stre	enath	Limi	its	Test
	Туре							Result
(MHz)	(PK/AV)		(H/V)	(dBµ V@)3m)	(dBµV@	@3m)	
Lower CH (2412 4824	PK		V	50.2)	74		Pass
4824	AV		V	36.5		54		Pass
4824	PK		Н	47.1		74		Pass
4824	AV		Н	33.8		54		Pass
1	1		1	/		1		1
1	1		1	/		1		1
Middle CH (243	7 MHz)	1			,			
4874	PK		V	52.0)	74		Pass
4874	AV		V	38.3	3	54	•	Pass
4874	PK		Н	47.0)	74	•	Pass
4874	AV		Н	34.3	3	54	•	Pass
1	1		1	1		1		1
1	1		1	1		1		1
Higher CH (246	2 MHz)							
4924	PK		V	47.1	I	74	-	Pass
4924	AV		V	33.7	7	54		Pass
4924	PK		Н	46.7	7	74		Pass
4924	AV		Н		2	54		Pass
1	1		1	1		1		1
1	/		1	1		/		/

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 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

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strength is too small to be measured.

4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

Table 21 Radiated Emission Test Data (Below 1GHz)

Test Date		November 6	2000		Tem	perature		24	°(C										
Test Date	;	November 6	, 2009		Hun	nidity		60	9,	6										
T 10	1.	1			Atm	osphere Pi	ressure	101.4	kF	^o a										
Test Res	uit	Pass			Test	t Port		E	Enclosure											
Test mod	е	802.11 n (20)MHz) Tx	z) Tx Category Class A 10m						Class B										
			<u> </u>	I		1		Antenna		I										
Freq.	Cable Loss	Antenna Factor	Readings	Lev	Level Polarity Turntable Angle				Limits	Margin										
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)										
105.275	1.6	12.7	18.4	32.	7	V	231	1.1	43.5	10.8										
167.609	2.2	10.6	21.7	34.5	V	359	1.3	43.5	9.0											
307.208	2.9	13.8	27.3	44.0)	V	111	1.1	46.0	2.0										
360.010	3.2	15.9	23.2	42.3	42.3	42.3	.3	}	}	}	3	3	,	}	3	V	232	1.2	46.0	3.7
600.008	4.1	18.8	19.1	42.0)	V	260	1.1	46.0	4.0										
840.000	5.0	20.5	18.3	43.	7	V	57	1.3	46.0	2.3										
103.975	1.6	12.3	18.6	32.	5	Н	259	1.6	43.5	11.0										
263.330	2.8	13.7	17.2	33.	7	Н	271	1.2	46.0	12.3										
307.210	2.9	13.8	26.2	42.9	9	Н	261	1.1	46.0	3.1										
360.010	3.2	15.9	22.7	41.8	3	Н	2	1.0	46.0	4.2										
600.010	4.1	18.8	22.7	45.6	3	Н	251	1.0	46.0	0.4										
840.010	5.0	20.5	19.3	44.	7	Н	117	1.0	46.0	1.3										

REMARKS:

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

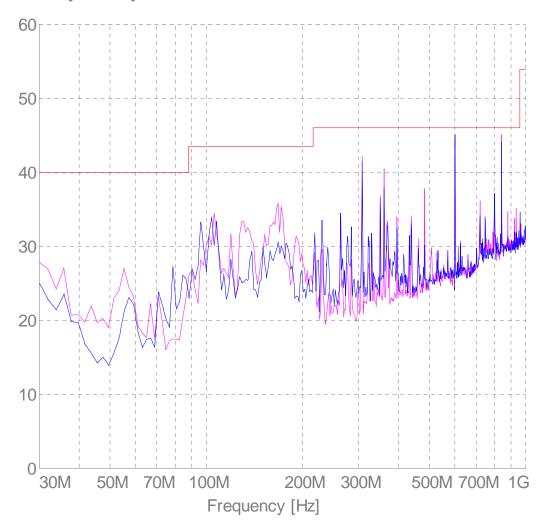
EUT: Notebook Computer

M/N: A86

Operating Condition: TX 802.11 n (20M)
Test Site: SMQ EMC Lab. SAC
Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz

Level [dBuV/m]



— MES A86 11n(20M) TX LH

— MES A86 11n(20M) TX LV

LIM FCC ClassB F QP FCC ClassB, field strength

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Table 22 Radiated Emission Test Data (Above 1GHz)

T 151		Temperature			2	22	0	С
Test Date	November 17,	2009	Humidity		4	17	(%
	_		Atmosphere Pi	essure	10	0.7	kl	Pa
Test Result	Pass		Test Port			Enclos	sure	
Test mode	802.11 n (20M	Hz) Tx	Category		Class A 10m		lass B	
Frequency	Measuring Type	Receiver	Antenna Polarity	Field Stre	1	Limi	<u> </u>	Test
(MHz)	(PK/AV)		(H/V)	(dBµ V@	(3m)	(dBµV@	@3m)	Result
Lower CH (2412 N	MHz)							
4824	PK		V	49.2		74		Pass
4824	AV		V	34.9		54		Pass
4824	PK		Н	46.3		74		Pass
4824	AV		Н	33.1		54		Pass
1	1		1	1		1		/
1	1		1	1		1		/
Middle CH (2437	MHz)							ı
4874	PK		V	49.1		74		Pass
4874	AV		V	36.2		54		Pass
4874	PK		Н	47.7		74		Pass
4874	AV		Н	33.7		54		Pass
1	1		1	1		1		1
1	1		1	1		1		1
Higher CH (2462)	MHz)							
4924	PK		V	46.0		74		Pass
4924	AV		V	32.8		54		Pass
4924	PK		Н	46.5		74		Pass
4924	AV		Н	32.7		54		Pass
1	1		1	1		1		1
/	/		1	1		1		/

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Data of measurement within this frequency range shown " /" in the table above means the

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reading of emissions are attenuated more than 20dB below the permissible limits, or the field strength is too small to be measured.

4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

Table 23 Radiated Emission Test Data (Below 1GHz)

Test Date		November 6	2000		Tem	perature		24	°(C
Test Date	,	november o	, 2009		Hum	nidity		60	9,	6
T I D	.14	D			Atm	osphere Pi	ressure	101.4	kF	Pa
Test Res	uit	Pass			Test	Port		Е	Enclosure	
								Class A		Class B
Test mod	е	802.11 n (40	40MHz) Tx Category				10m		3m	
From	Cable	Antenna	Boodings	Lev	اما	Dolority.	Turntable	Antenna	Limits	Morgin
Freq.	Loss	Factor	Readings	Lev	'eı	Polarity	Angle	Height	Limits	Margin
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)
130.487	1.9	12.3	17.0	31.2	2	V	13	1.6	43.5	12.3
267.291	2.8	13.2	17.7	33.7	7	V	255	1.2	46.0	12.3
307.210	2.9	13.8	27.0	43.7	7	V	13	1.1	46.0	2.3
360.010	3.2	15.9	23.9	43.0)	V	312	1.0	46.0	3.0
600.010	4.1	18.8	20.1	43.0)	V	153	1.0	46.0	3.0
840.010	5.0	20.5	19.7	45.	1	V	351	1.0	46.0	0.9
105.831	1.6	12.7	16.9	31.2	2	Н	83	1.0	43.5	12.3
273.274	2.8	13.3	19.6	35.7	7	Н	224	1.2	46.0	10.3
307.210	2.9	13.8	26.5	43.2	2	Н	195	1.3	46.0	2.8
360.010	3.2	15.9	23.8	42.9	9	Н	57	1.0	46.0	3.1
600.030	4.1	18.8	23.0	45.9	9	Н	43	1.1	46.0	0.1
840.030	5.0	20.5	19.7	45.	1	Н	168	1.1	46.0	0.9

REMARKS:

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

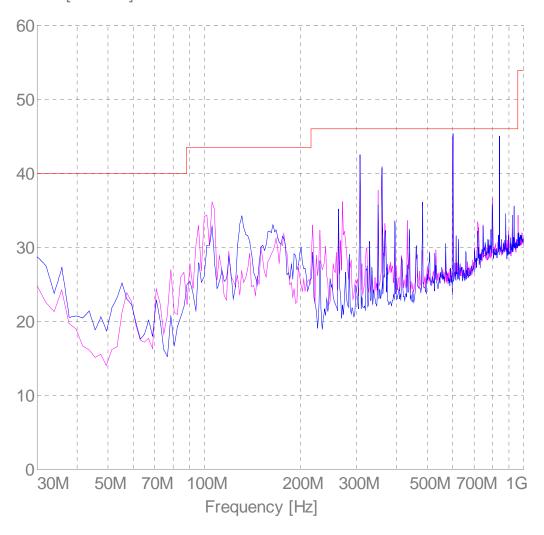
EUT: Notebook Computer

M/N: A86

Operating Condition: TX 802.11 n (40M)
Test Site: SMQ EMC Lab. SAC
Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz





— MES A86 11n(40M) TX LV

— MES A86 11n(40M) TX LH

LIM FCC ClassB F QP FCC ClassB, field strength

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Table 24 Radiated Emission Test Data (Above 1GHz)

Toot Data	November 17, 2009		Temperature		22		$^{\circ}$ C	
Test Date	November 17, 2	2009	Humidity		47		Ç	%
T4 D14	D		Atmosphere Pre	essure	100.	7	kl	⊃a
Test Result	Pass		Test Port			Enclos	sure	
-					Class A	С	lass B	
Test mode	802.11 n (40Mł	HZ) IX	Category		10m	3r	n 🔽	<u> </u>
Frequency	Measuring Type	Receive	er Antenna Polarity	Field Str	rength	Limits		Test
(MHz)	(PK/AV)		(H/V)	(dBµ V	@3m)	(dBµV(@3m)	Result
Lower CH (2422	2 MHz)							
4844	PK		V	47.1		74	1	Pass
4844	AV		V	33.	5	54	1	Pass
4844	PK		Н	47.	2	74	1	Pass
4844	AV		Н	33.	1	54	1	Pass
1	1		1	1		/		1
1	1		1	1		1		1
Middle CH (243	7 MHz)				l.			
4874	PK		V	47.	7	74	1	Pass
4874	AV		V	33.	9	54	1	Pass
4874	PK		Н	46.	9	74	1	Pass
4874	AV		Н	33.	0	54	1	Pass
1	/		1	1		1		1
1	/		/	1		1		1
Higher CH (245	2 MHz)							
4904	PK		V	45.	8	74	1	Pass
4904	AV		V	32.	4	54	1	Pass
4904	PK		Н	46.	2	74	1	Pass
4904	AV	Н		32.3		54	1	Pass
1	/		1		1			1
1	/		/	1		1		/

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level ($dB\mu V/m$) =Read Value ($dB\mu V$) + Correction Factor (dB/m)
- 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

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strength is too small to be measured.

4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

Table 25 Radiated Emission Test Data (Below 1GHz)

Test Date		November 6	2000		Tem	perature		24	ຶ່	C
Test Date)	november o	, 2009		Hun	nidity		60	9	6
T 4 D	.14	Б			Atm	osphere Pi	ressure	101.4	kF	Pa
Test Res	uit	Pass			Tes	t Port		Е	Enclosure	
Test mod	е	802.11b/g/n	Rx		Cate	egory	Class A Class 10m			
	Cable	Antenna			Turntable			Antenna		
Freq.	Loss	Factor	Readings	Lev	Level Polarity Angle				Limits	Margin
(MHz)	(dB)	(dB)	(dBµV/m)	(dBµV	/m)	(H/V)	(deg)	(m)	(dBµV/m)	(dB)
131.492	1.9	12.3	16.5	30.7	7	V	131	1.6	43.5	12.8
168.711	2.2	10.6	18.4	31.2	2	V	13	1.2	43.5	12.3
263.310	2.8	13.7	16.4	32.9	9	V	65	1.1	46.0	13.1
307.230	2.9	13.8	24.4	41.	1	V	96	1.1	46.0	4.9
351.092	3.2	15.9	17.6	36.7	7	V	29	1.2	46.0	9.3
482.731	3.6	17.6	12.6	33.8	3	V	332	1.0	46.0	12.2
95.975	1.6	11.5	19.0	32.	1	Н	289	1.0	43.5	11.4
263.310	2.8	13.7	19.2	35.7	7	Н	222	1.1	46.0	10.3
307.190	2.9	13.8	24.4	41.	1	Н	139	1.2	46.0	4.9
351.072	3.2	15.9	22.1	41.2	2	Н	76	1.1	46.0	4.8
273.326	2.8	13.3	16.6	32.7	7	Н	9	1.0	46.0	13.3
799.529	4.8	20.1	13.6	38.5	5	Н	252	1.1	46.0	7.5

REMARKS:

- 1. Radiated emissions measured in frequency range from 30MHz to 1000MHz were made with an instrument using quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
- 4. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Table 26 Radiated Emission Test Data (Above 1GHz)

Took Date	November 47, 20	200	Temperature			22		٥	С
Test Date	November 17, 20	009	Humidity			47		C	%
Took Dooult	Door		Atmosphere Pr	essure	10	00.7		kl	Pa
Test Result	Pass		Test Port				Enclos	sure	
Test made	902 11h/a/n Dy		Cotogon		Class A	4 (lass B	
Test mode	802.11b/g/n Rx		Category		10m		3	m 🛭	
Frequency	Measuring Type	Receiver	Antenna Polarity	Field Str	ength	Limit		s	Test
(MHz)	(PK/AV)		(H/V)	(dBµ V@3m)		(dBµV@)3m)	Result
1500.010	PK		V	46.7		74			Pass
1500.010	AV		٧	42.9	9	54			Pass
1500.010	PK		Н	46.2	2	74			Pass
1500.010	AV	Н		41.9	9	54			Pass
1	/	1		1		1			/
/	1	1		/	/		1		/

- 1. Radiated emissions measured in frequency above 1000MHz up to 10th harmonic were made with an instrument using peak/quasi-peak detector mode.
- 2. Emission level (dBμV/m) =Read Value (dBμV) + Correction Factor (dB/m)
- 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. Measurements above show only up to 6 maximum emissions, or would be lesser with "N/A" remark, if no specific emissions from the EUT are recorded (i.e. margin >20dB from the applicable limit) and considered that is already beyond the background noise floor.

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Radiated Emission (below 1GHz)

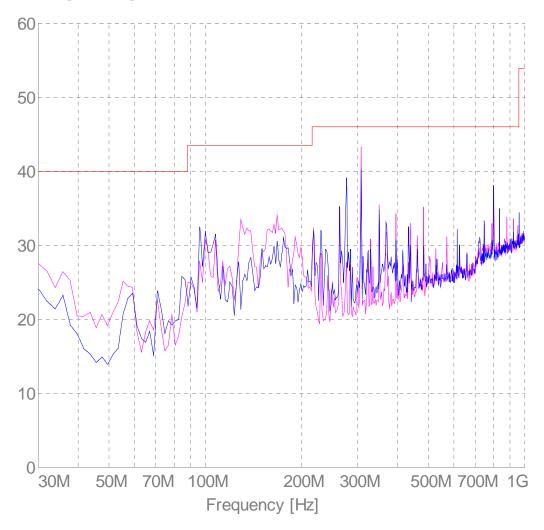
EUT: Notebook Computer

M/N: A86

Operating Condition: TX 802.11 b/g/n RX
Test Site: SMQ EMC Lab. SAC
Test Specification: Horizontal & Vertical

Comment: AC 120V/60Hz





- MES A86 RX LH

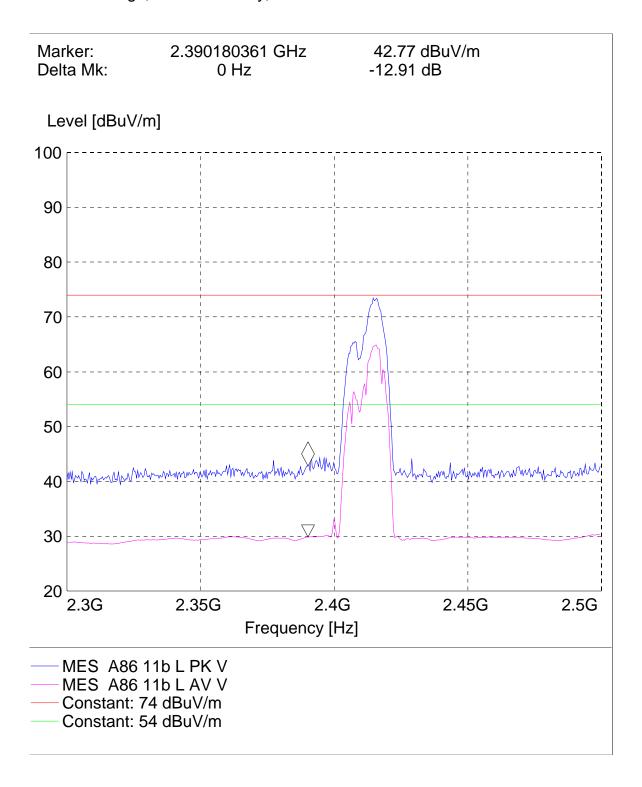
- MES A86 RX LV

LIM FCC ClassB F QP FCC ClassB, field strength

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Band Edges (IEEE 802.11b mode, Low CH)

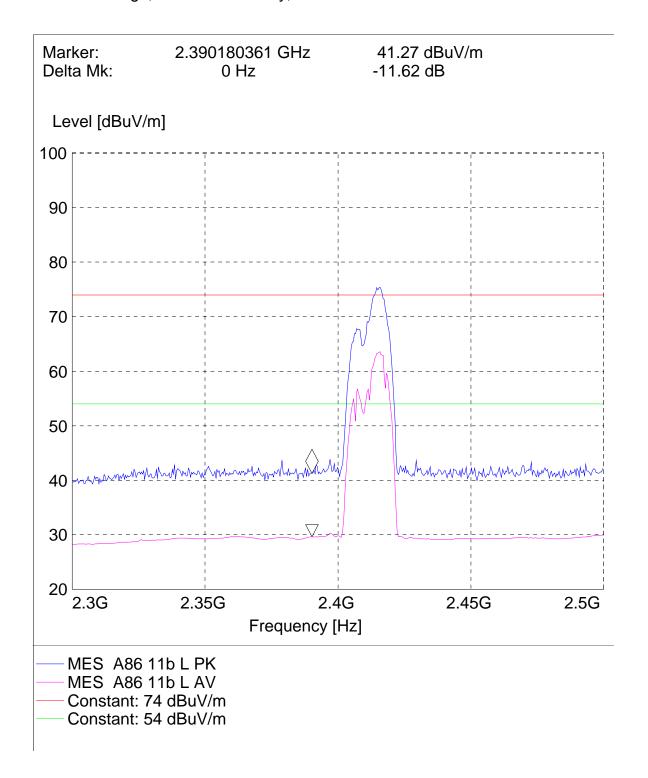
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11b mode, Low CH)

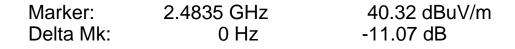
Peak & Average; Horizontal Polarity;



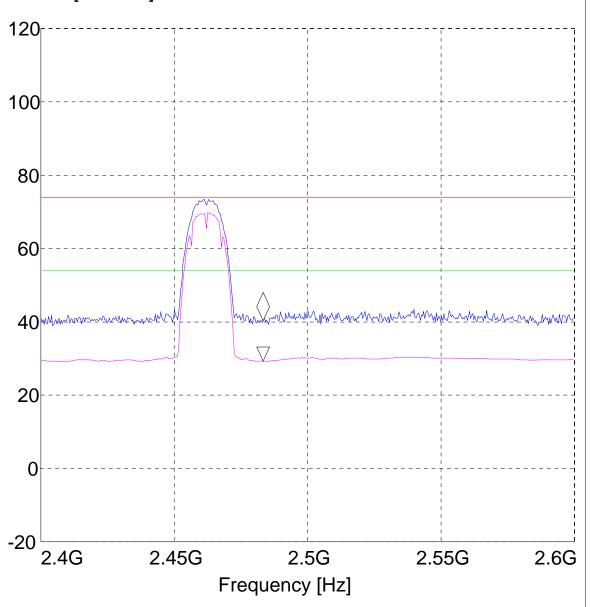
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Band Edges (IEEE 802.11b mode, High CH)

Peak & Average; Vertical Polarity;



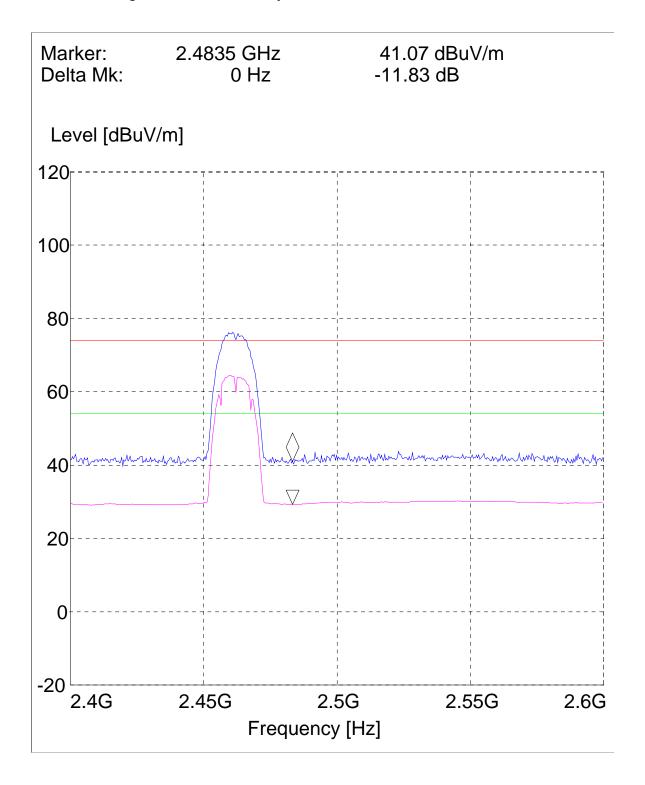




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Band Edges (IEEE 802.11b mode, High CH)

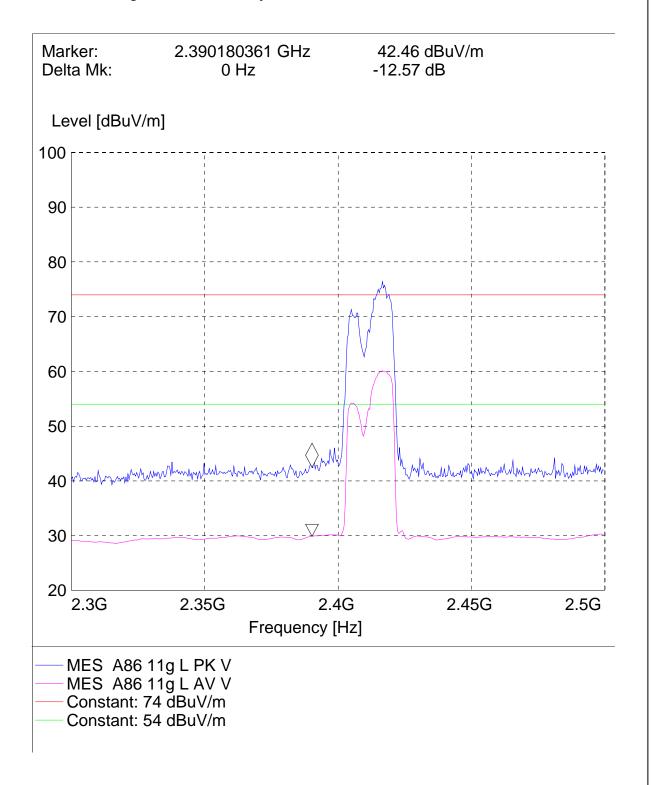
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11g mode, Low CH)

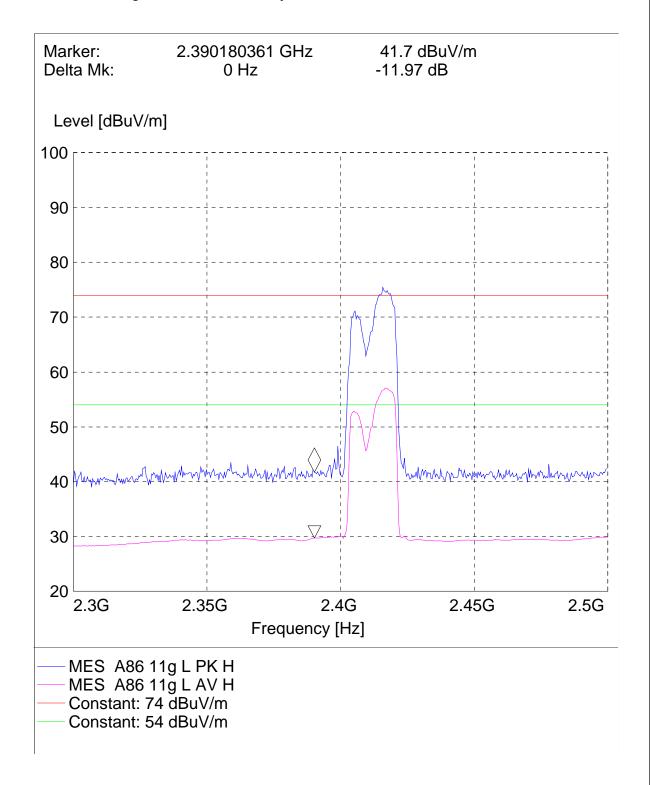
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11g mode, Low CH)

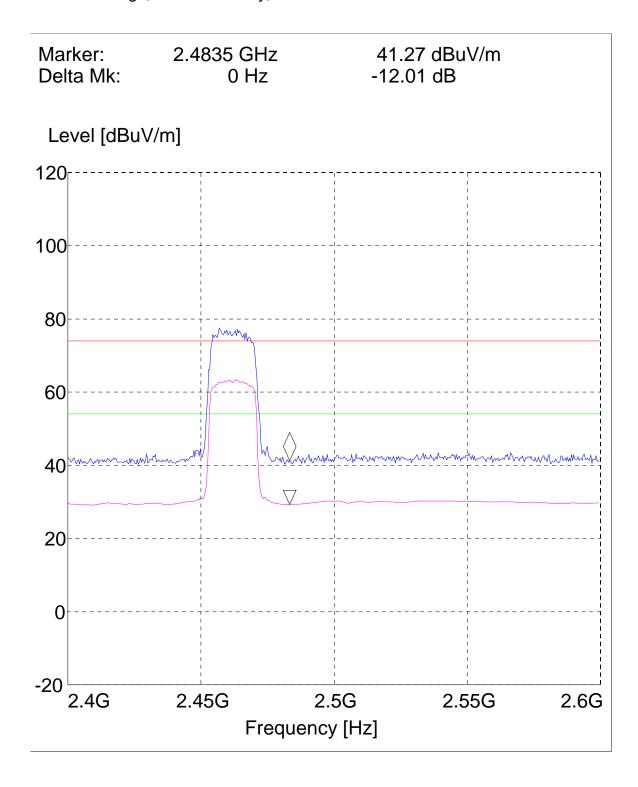
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11g mode, High CH)

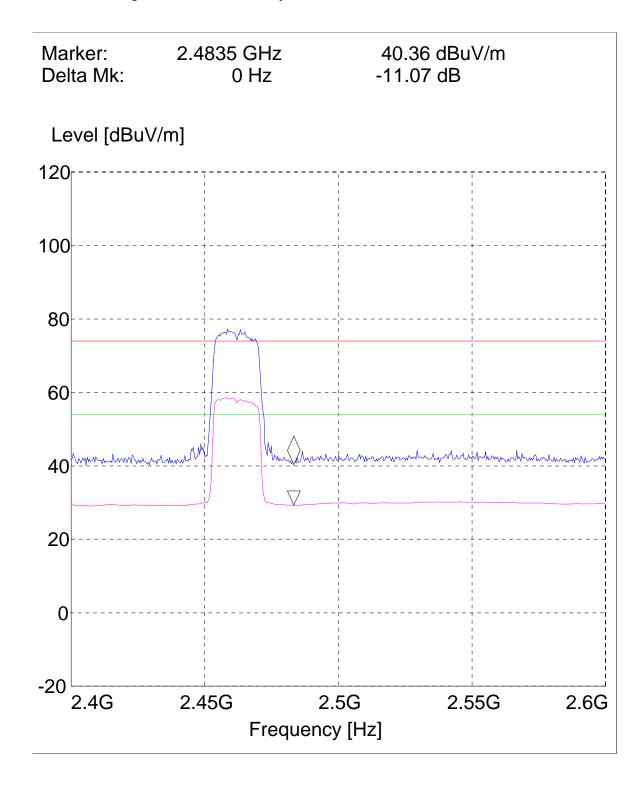
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11g mode, High CH)

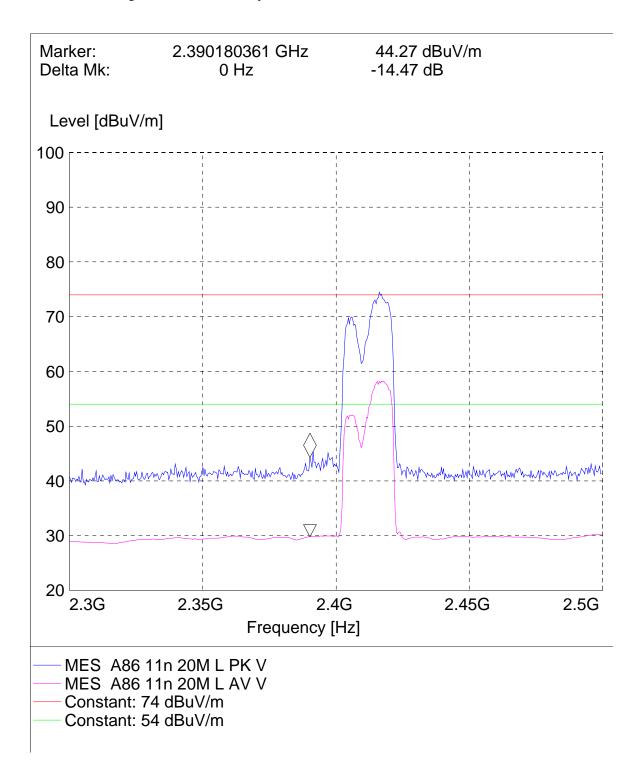
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11n (20MHz) mode, Low CH)

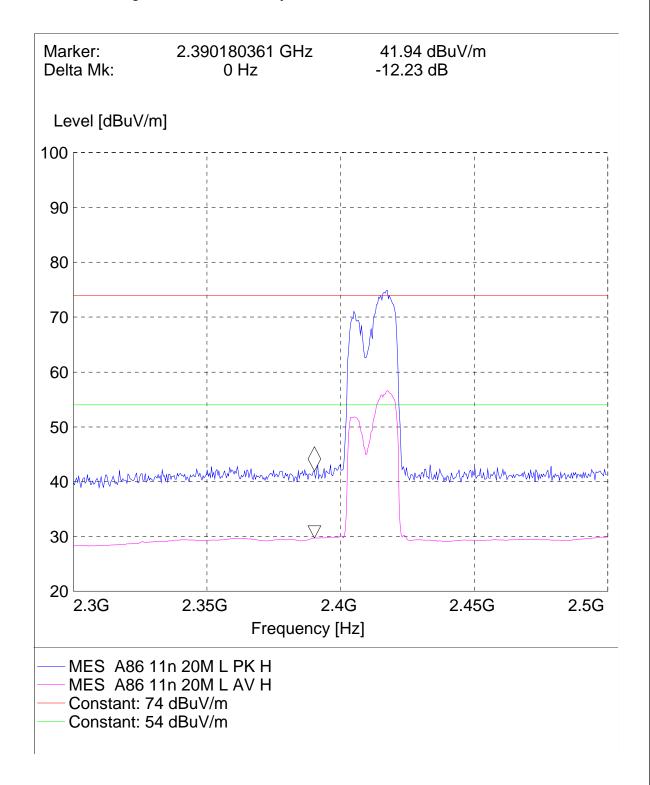
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11n (20MHz) mode, Low CH)

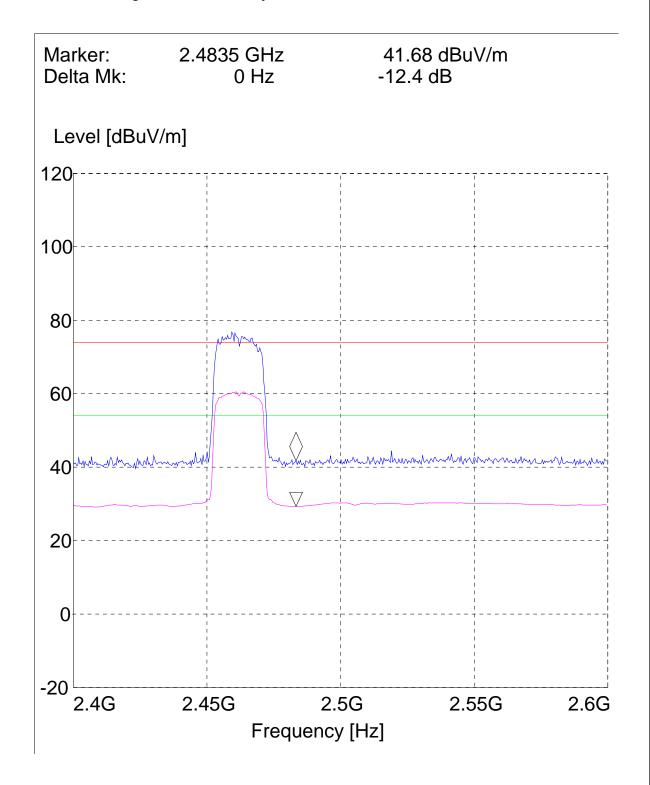
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11(20MHz) mode, High CH)

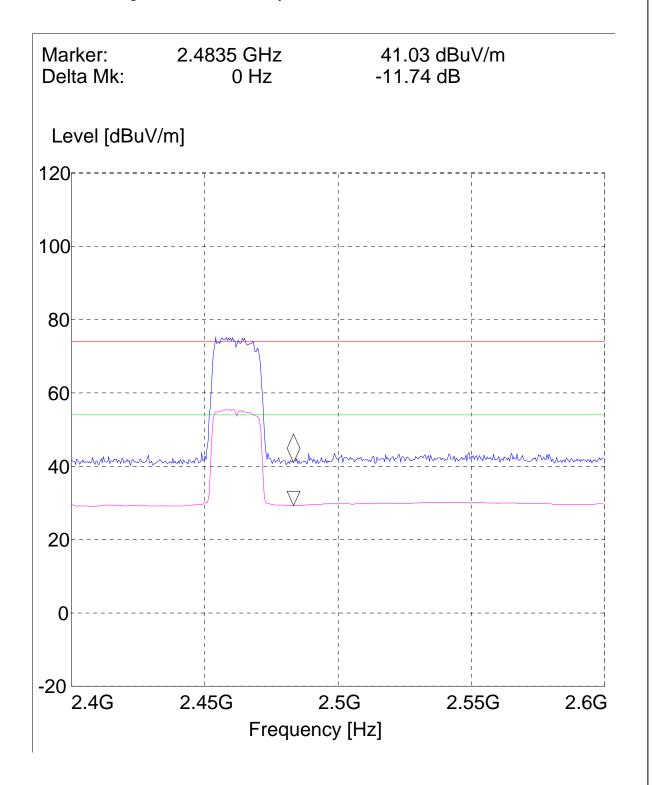
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11(20MHz) mode, High CH)

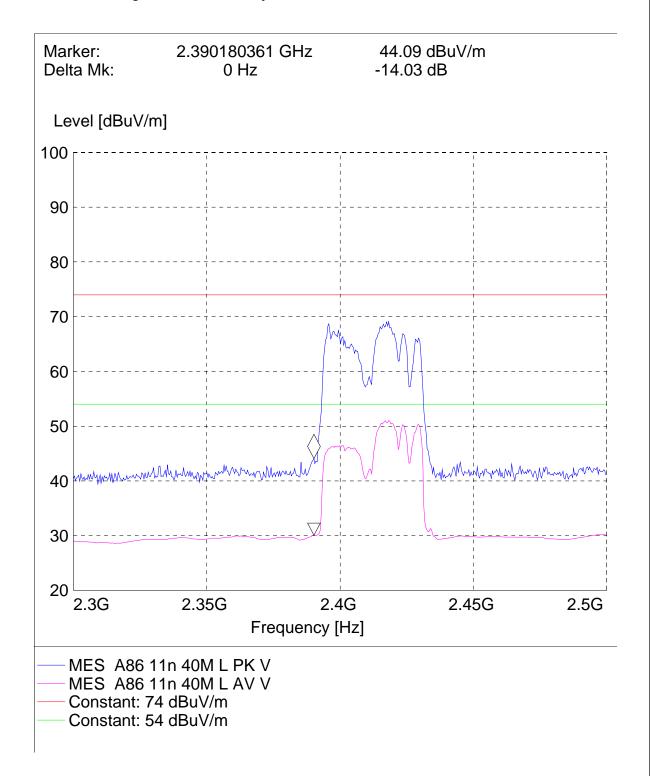
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11n (40MHz) mode, Low CH)

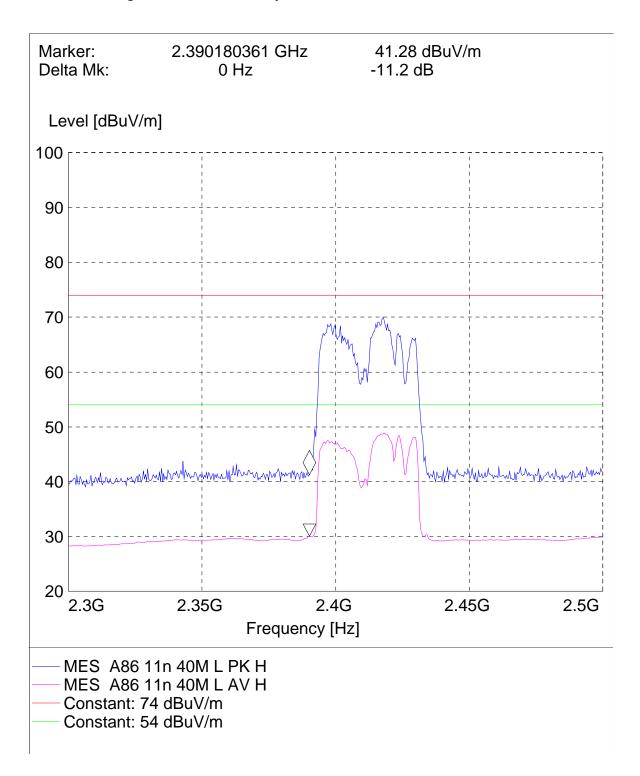
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11n (40MHz) mode, Low CH)

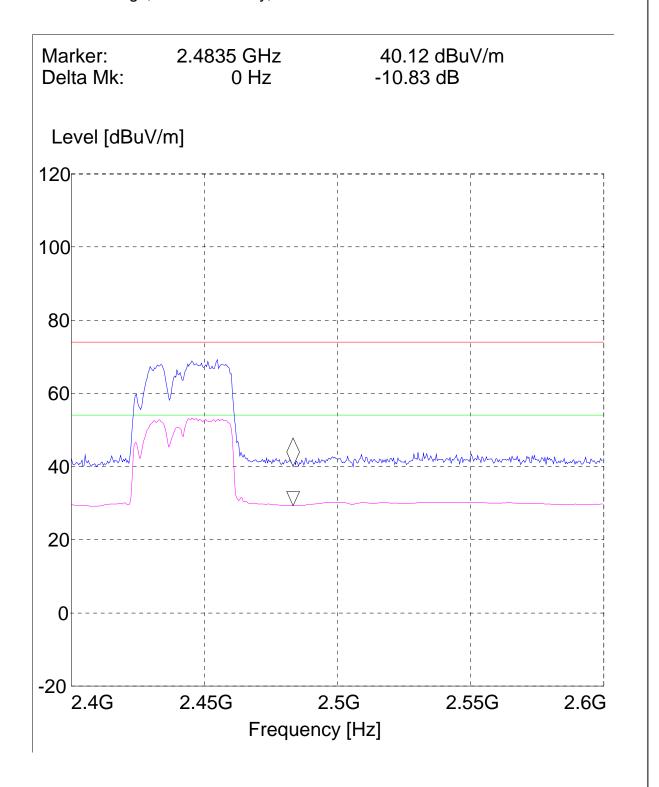
Peak & Average; Horizontal Polarity;



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Band Edges (IEEE 802.11(40MHz) mode, High CH)

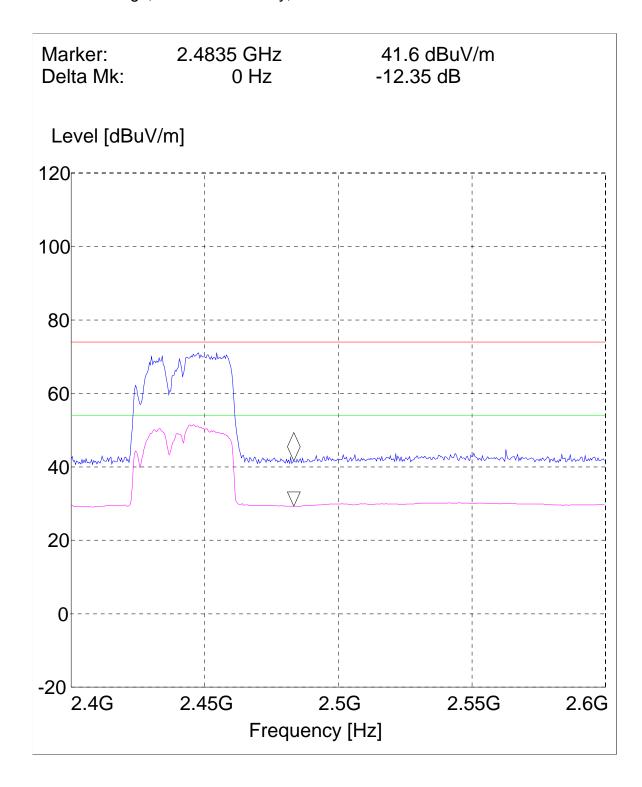
Peak & Average; Vertical Polarity;



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Band Edges (IEEE 802.11(40MHz) mode, High CH)

Peak & Average; Horizontal Polarity;



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9. 6DB BANDWIDTH

9.1. Test Standard and Limit

9.1.1.Test Standard

FCC Part 15.247 (a) (2)

9.1.2.Limits

Systems using digital modulation techniques may operate in the 902– 928 MHz, 2400– 2483.5 MHz, and 5725– 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2. Test Procedure

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth. Repeat above procedures until all frequencies measured were completed.

9.3. Result

Compliance

This EUT is a Notebook Computer, installed with one 802.11b/g/n(20/40MHz) wireless USB mini card, AW-NU706 inside; please refer to 80815201-RP1 report, FCC ID: TLZ-NU706, i.e., 47 CFR FCC Part 15 Subpart C § 15.247.

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10. MAXIMUM PEAK CONDUCTED OUTPUT POWER

10.1.Test Standard and Limit

10.1.1.Test Standard

FCC Part 15.247 (b) (3)

10.1.2.Limit

According to §15.247(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.

10.2.Test Procedure

Place the EUT on a bench and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to an EMI Test Receiver.

Add a correction factor to the display. Measure the Peak Output Power of the EUT at Lower, middle and higher channels of each band at a data rate which are the maximum power level.

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10.3.Result Compliance This EUT is a Notebook Computer, installed with one 802.11b/g/n(20/40MHz) wireless USB mini card, AW-NU706 inside; please refer to 80815201-RP1 report, FCC ID: TLZ-NU706, i.e., 47 CFR FCC Part 15 Subpart C § 15.247.

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11. POWER SPECTRAL DENSITY

11.1.Test Standard and Limit

11.1.1.Test Standard

FCC Part 15.247(e)

11.1.2.Limit

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

11.2.Test Procedure

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

11.3.Result

Compliance

This EUT is a Notebook Computer, installed with one 802.11b/g/n(20/40MHz) wireless USB mini card, AW-NU706 inside; please refer to 80815201-RP1 report, FCC ID: TLZ-NU706, i.e., 47 CFR FCC Part 15 Subpart C § 15.247.

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