





ISO/IEC17025Accredited Lab.

Report No: FCC 0806212 File reference No: 2008-07-16

Applicant: WANLIDA GROUP CO.,LTD.

Product: NOTEBOOK

Model No: PC-81005

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247& Part 15 Subpart B

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4, Part 15 Subpart B &FCC Part 15 Subpart C, Paragraph 15.247 regulations for the

evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated: July 16,2008

Results appearing herein relate only to the sample tested The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

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Tel (755) 83448688 Fax (755) 83442996

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Date: 2008-07-16



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC-Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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1.0 General Details

1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Wanlida Group Co., Ltd.

Address: No.618, Jiahe Road, Xiamen, China 361006

Telephone: +86-596-7653680-8516 Fax: +86-596-7662886

1.3 Description of EUT

Product: Notebook

Manufacturer: Wanlida Group Co., Ltd.

Brand Name: N/A

Model Number: PC-81005

Additional Model Name N/A
Additional Trade Name N/A

Rating: Input: DC 12V; 36W

Power Supply: Model: MPA-12030, Input: 100-240V~, 0.65A, 50/60Hz;

Output: DC12V, 3A

Type of Modulation DBPSK、DQPSK、CCK、OFDM

Frequency range 2412-2462MHz

Number of Channel 11

Air Data Rate 54, 48, 36, 24, 18, 12, 9, 6Mbps at 802.11g mode; 11, 5.5, 2, 1Mbps

at 802.11b mode

Frequency Selection By software

1.4 Submitted Sample: 1 Sample

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1.5 Test Duration

2008-06-26 to 2008-07-11

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0		Test Equi	pments		
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2007-12-05	2008-12-04
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2007-12-05	2008-12-04
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2007-12-05	2008-12-04
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2007-12-05	2008-12-04
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2008-04-26	2009-04-25
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2008-02-18	2009-02-17
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2008-02-18	2009-02-17
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2008-02-18	2009-02-17
System Controller	CT	SC100	-	2008-02-18	2009-02-17
Printer	EPSON	РНОТО ЕХЗ	CFNH234850	2008-02-18	2009-02-17
FM-AM Signal Generator	JUNGJIN	SG-150M	389911177	2008-02-18	2009-02-17
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2008-02-18	2009-02-17

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	,		5		
Computer	IBM	8434	1S8434KCE99BLX LO*	-	-
Oscillator	KENWOOD	AG-203D	3070002	2008-02-18	2009-02-17
Power meter	Anritsu	ML2487A	6K00003613	2008-02-18	2009-02-17
Power sensor	Anritsu	MA2491A	32263	2008-02-18	2009-02-17
Spectrum Analyzer	HAMEG	HM5012	-	2008-04-26	2009-04-25
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2008-02-18	2009-02-17
CDN	EM TEST	CDN M2/M3	-	2008-02-18	2009-02-17
Attenuation	EM TEST	ATT6/75	-	2008-02-18	2009-02-17
Resistance	EM TEST	R100	-	2008-02-18	2009-02-17
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2008-02-18	2009-02-17
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2008-02-18	2009-02-17
Power Amplifier	AR	150W1000	300999	2008-02-18	2009-02-17
Field probe	Holaday	HI-6005	105152	2008-02-18	2009-02-17
Bilog Antenna	Chase	CBL6111C	2576	2008-02-18	2009-02-17
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2008-02-18	2009-02-17
3m OATS			N/A	2008-02-18	2009-02-17
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2007-08-16	2008-08-15
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2008-04-26	2009-04-25

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3.0 Technical Details

3.1 Summary of test results

	The EUT has been	tested accor	rding to the t	following	specifications:
--	------------------	--------------	----------------	-----------	-----------------

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	PASS	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
FCC Part 15, Paragraph 15.247(d)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
FCC Part 15, Paragraph 15.247(c)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	PASS	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

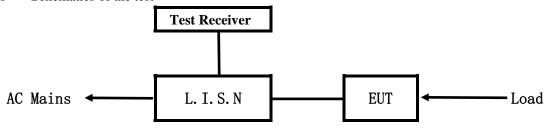
4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd



5. Power Line Conducted Emission Tes

5.1 Schematics of the test

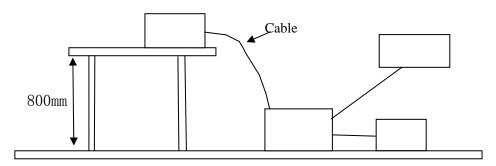


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Two channels are provided to the EUT

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437		

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A. EUT

Device	Manufacturer	Model	FCC ID
Notebook	Wanlida Group Co., Ltd.	PC-81005	SMFPC-81005

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207 and 15.107

Frequency	Class A Lim	its (dB μ V)	Class B Limits (dB \(\mu \) V)		
(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
$5.00 \sim 30.00$	73.0	60.0	60.0	50.0	

Notes: 1. *I

- 1. *Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: the worse cases was selected to conducted the test

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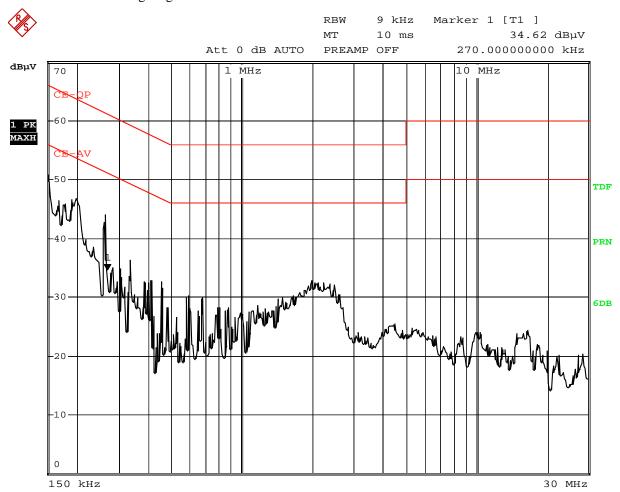
A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Results: Pass

Please refer to following diagram for individual



Date: 7.JUL.2008 14:01:22

Eroguanav		Reading	Limi	t		
Frequency (MHz)	Line	e Neutral (dB μ V)		Neutral		V)
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150	41.32	31.65			66.00	56.00
0.198	44.32	30.10			63.70	53.70
0.262	41.76	25.65			61.40	51.40

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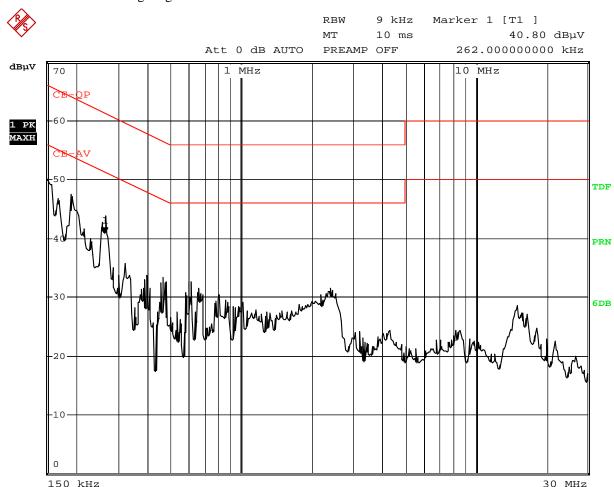
B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Results: Pass

Please refer to following diagram for individual



Date: 7.JUL.2008 14:03:26

Fraguanay		Reading	Limi	t		
Frequency (MHz)	Live	;	Neutral		(dB µ	V)
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150			41.76	31.65	66.00	56.00
0.190			43.21	25.61	63.70	53.70
0.266			40.53	26.76	61.40	51.40

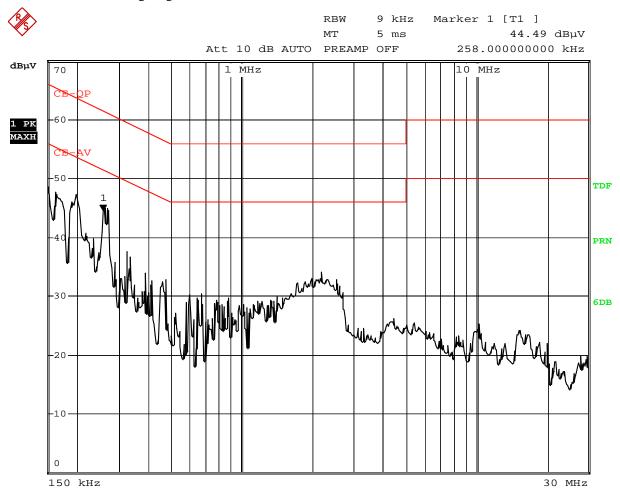
The report refers only to the sample tested and does not apply to the bulk.

C Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)

EUT set Condition: Running notebook test program and Ping network

Results: Pass

Please refer to following diagram for individual



Date: 7.JUL.2008 13:58:11

Eraguanay		Reading(dB µ V) Limit			t	
Frequency (MHz)	Line	ne Neutral		(dB µ V)		
(MHZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150	41.45	31.54			66.00	56.00
0.186	37.43	19.00			64.20	53.70
0.258	41.43	27.01			61.50	51.40

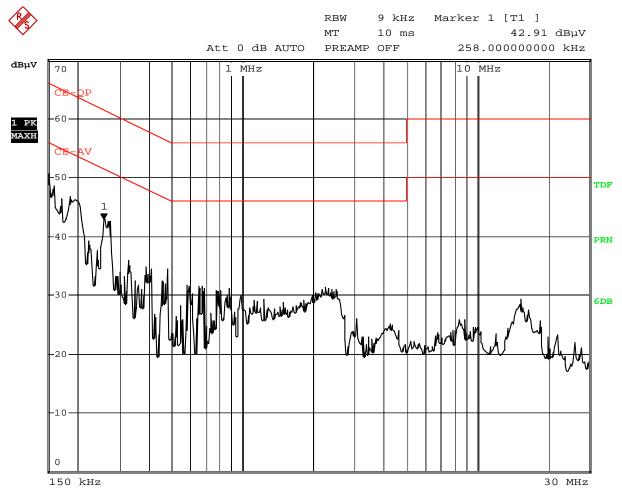
The report refers only to the sample tested and does not apply to the bulk.



EUT set Condition: Running notebook test program and Ping network

Results: Pass

Please refer to following diagram for individual



Date: 7.JUL.2008 13:55:55

Eroguanav	Reading(dB µ V)			Limit		
Frequency (MHz)	Live	ve Neutral		(dB µ V)		
(WITIZ)	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
0.150			41.32	31.65	66.00	56.00
0.198			44.54	30.10	63.70	53.70
0.270			40.43	23.76	61.10	51.40

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6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup Distance = 3m Computer Pre -Amplifier EUT Turn-table Receiver

- 6.2 Configuration of The EUT

 Same as section 5.3 of this report
- 6.3 EUT Operating Condition

 Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109

Frequency Range (MHz)	Distance (m)	Field strength (dB µ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Read USB,SD card and software, Running EMC test software and Ping

wireless network

Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
533.400	37.27	Н	46.00
933.315	41.34	Н	46.00
533.329	37.29	V	46.00
933.307	43.42	V	46.00

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Test Figure:

Radiated Emission Measurement



Radiated Emission Measurement



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EUT set Condition: Running notebook test program and Ping network

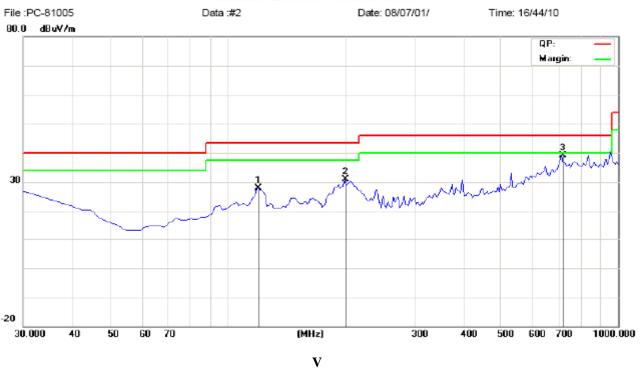
Results: Pass

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
119.856	27.85	Н	43.50
199.750	30.69	Н	43.50
721.125	39.21	Н	46.00
933.305	42.47	V	46.00
533.311	37.69	V	46.00

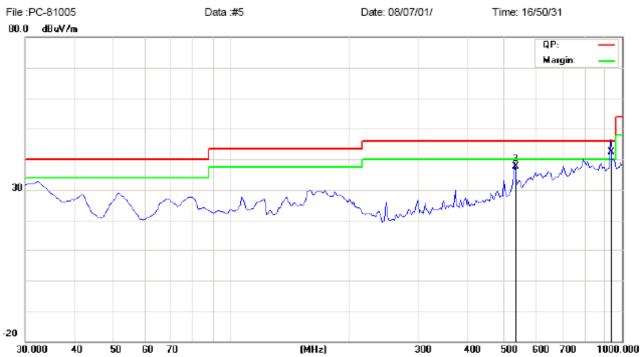


Test Figure:

Radiated Emission Measurement



Radiated Emission Measurement



Note:. Emission level $(dB\mu V/m)$ =Antenna Factor (dB/m) + Cable loss (dB) + Meter Reading $(dB\mu V)$.

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Operation Mode: Transmitting & Receiving under CH01 at 6Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2412.00	83.7(PK) /76.2 (AV)	Н	Fundamental Frequency
2412.00	88.9(PK) /80.5 (AV)	V	Fundamental Frequency
4824.00	50.3(PK) /41.6 (AV)	Н	74(Peak)/ 54(AV)
4824.00	54.6(PK) /42.8 (AV)	V	74(Peak)/ 54(AV)
7236.00	1	H/V	74(Peak)/ 54(AV)
9648.00	1	H/V	74(Peak)/ 54(AV)
12060	1	H/V	74(Peak)/ 54(AV)
14472	1	H/V	74(Peak)/ 54(AV)
16684	1	H/V	74(Peak)/ 54(AV)
19296	1	H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6Mbps
- 4. Test results are for the worst case condition

Operation Mode: Transmitting & Receiving under CH06 at 6Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2437.00	84.1 (PK) /77.4 (AV)	V	Fundamental Frequency
2437.00	88.3 (PK) /80.6 (AV)	Н	Tundamental Frequency
4874.00	53.2 (PK) /45.7 (AV)	Н	74(Peak)/ 54(AV)
4874.00	57.8 (PK) /49.3 (AV)	V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode 6Mbps
- 4. Test results are for the worst case condition

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Operation Mode: Transmitting & Receiving under CH11 at 6Mbps				
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)	
2462.00	85.7 (PK) /79.3 (AV)	Н	Fundamental Frequency	
2462.00	90.2 (PK) /82.4 (AV)	V	Tundamental Prequency	
4824	55.6 (PK) /46.8 (AV)	Н	74(Peak)/ 54(AV)	
4824	60.4 (PK) /51.3 (AV)	V	74(Peak)/ 54(AV)	
7368		H/V	74(Peak)/ 54(AV)	
9848		H/V	74(Peak)/ 54(AV)	
12310		H/V	74(Peak)/ 54(AV)	
14772		H/V	74(Peak)/ 54(AV)	
17234		H/V	74(Peak)/ 54(AV)	
19696		H/V	74(Peak)/ 54(AV)	
22158		H/V	74(Peak)/ 54(AV)	
24650		H/V	74(Peak)/ 54(AV)	

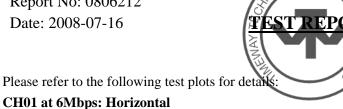
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 6Mbps

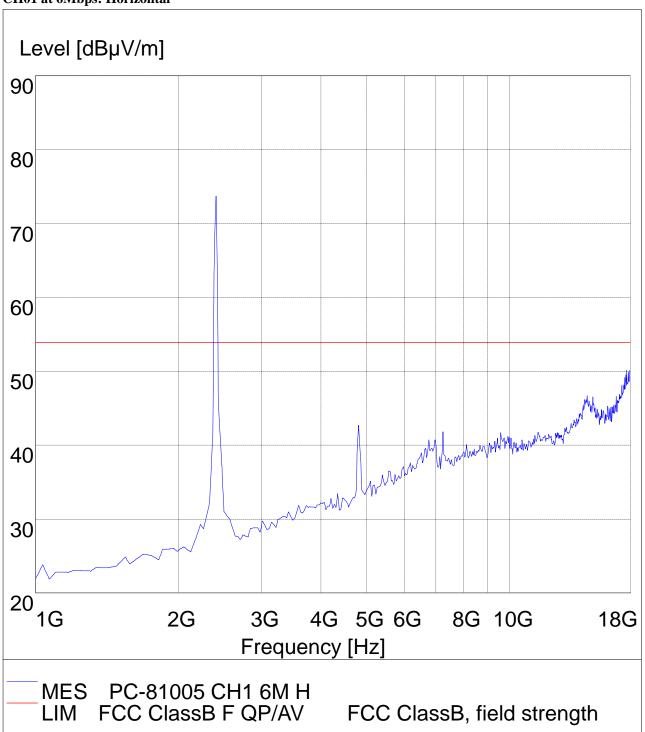
Date: 2008-07-16

4. Test results are for the worst case condition

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CH01 at 6Mbps: Horizontal

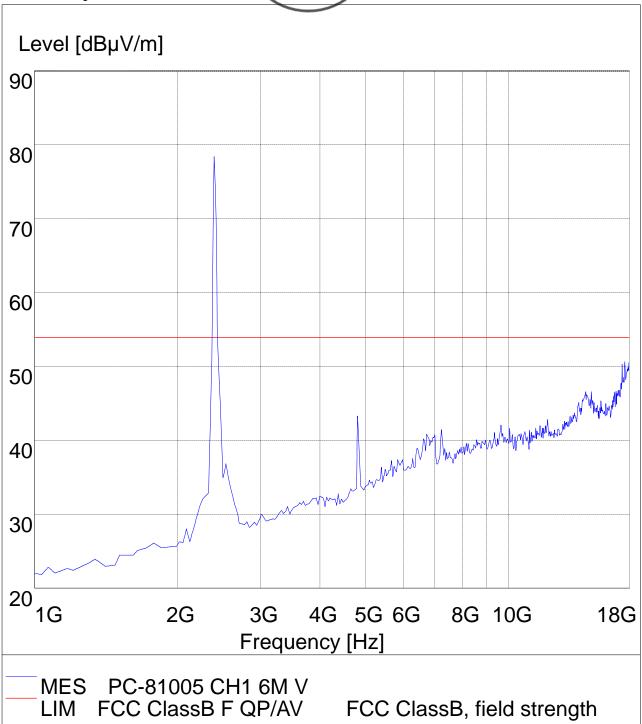


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CH01 at 6Mbps: Vertical

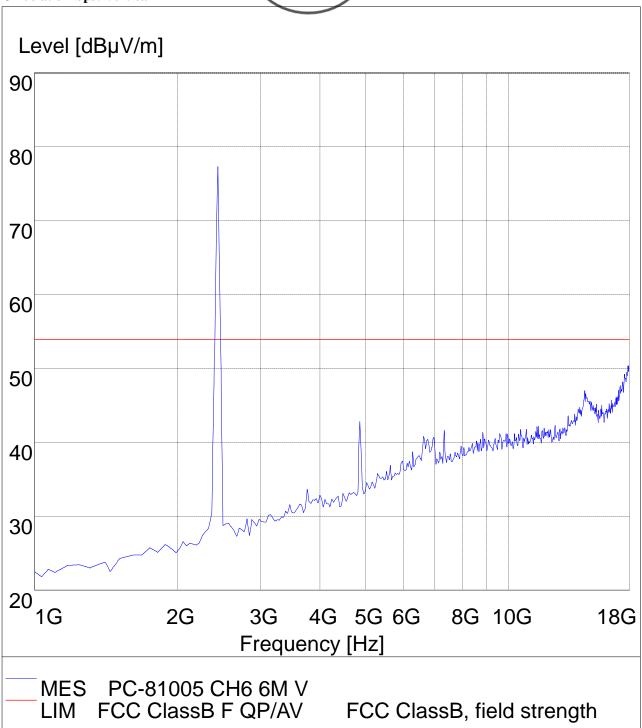


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CH06 at 6Mbps: Vertical



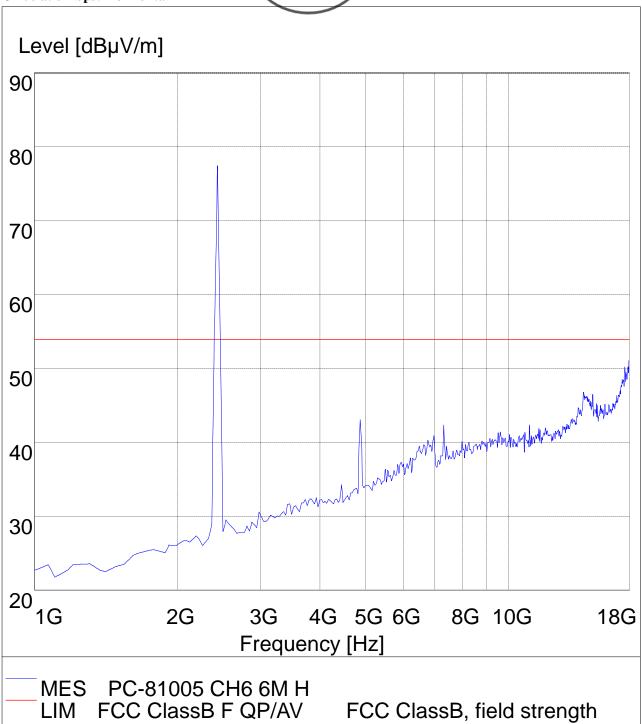
The report refers only to the sample tested and does not apply to the bulk.

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CH06 at 6Mbps: Horizontal

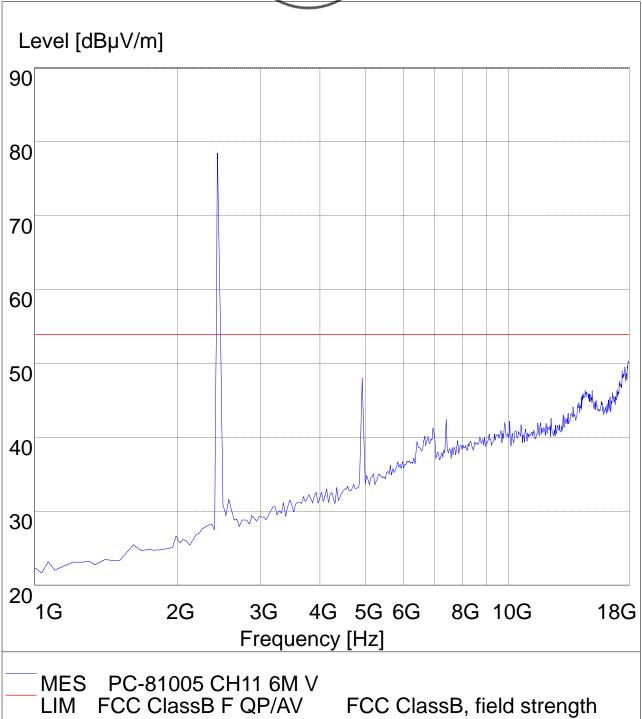


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CH11 at 6Mbps: Vertical

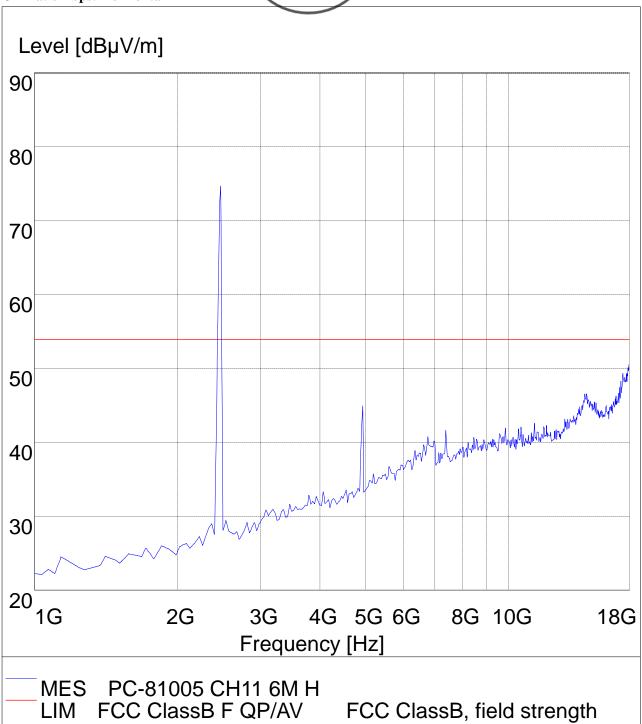


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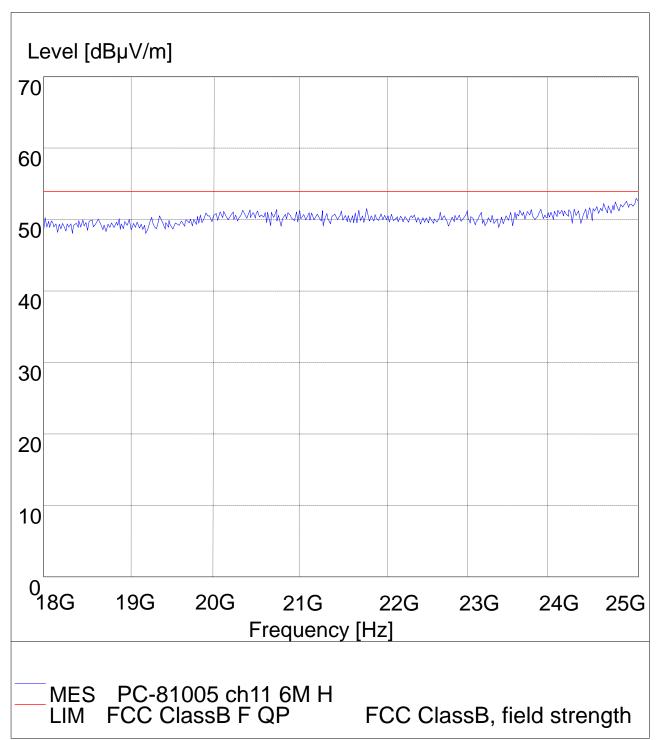


CH11at 6Mbps: Horizontal





18-25G CH11 6M Horizontal



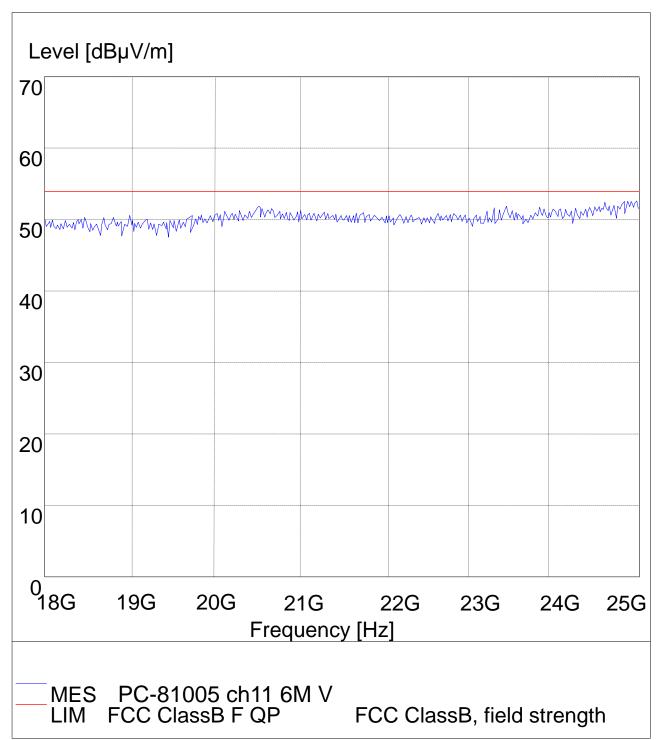
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18-25G CH11 6M Vertical



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Operation Mode: Transmitting & Receiving under CH01 at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
2412.00	80.7 (PK)/ 72.6(AV)	Н	Fundamental Frequency
2412.00	84.5 (PK)/77.3 (AV)	V	Tundamental Frequency
4824.00	47.8 (PK)/ 39.5(AV)	Н	74(Peak)/ 54(AV)
4824.00	52.6 (PK)/ 44.5(AV)	V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps
- 4. Test results are for the worst case condition

Operation Mode: Transmitting & Receiving under CH06 at 11Mbps

- I	operation in a new annual section of the section of					
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)			
2437.00	80.8(PK)/ 73.2AV)	Н	Fundamental Frequency			
2437.00	85.9(PK)/77.6 (AV)	V	Tundamental Mequency			
4874.00	52.8(PK)/45.1 (AV)	V	74(Peak)/ 54(AV)			
4874.00	48.3(PK)/40.6 (AV)	Н	74(Peak)/ 54(AV)			
7311.00		H/V	74(Peak)/ 54(AV)			
9748.00		H/V	74(Peak)/ 54(AV)			
12185		H/V	74(Peak)/ 54(AV)			
14622		H/V	74(Peak)/ 54(AV)			
17059		H/V	74(Peak)/ 54(AV)			
19496		H/V	74(Peak)/ 54(AV)			
21933		H/V	74(Peak)/ 54(AV)			
24370		H/V	74(Peak)/ 54(AV)			

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode 11Mbps
- 4. test results are for the worst case condition

The report refers only to the sample tested and does not apply to the bulk.

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Operation Mode: Transmitting & Receiving under CH11 at 11Mbps				
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)	
2462.00	82.1(PK/74.6AV)	Н	Fundamental Frequency	
2462.00	87.3(PK)/79.9AV)	V	Tundamental Frequency	
4924	52.6(PK)/43.5 (AV)	Н	74(Peak)/ 54(AV)	
4924	58.1(PK)/49.3 (AV)	V	74(Peak)/ 54(AV)	
7368		H/V	74(Peak)/ 54(AV)	
9848		H/V	74(Peak)/ 54(AV)	
12310		H/V	74(Peak)/ 54(AV)	
14772		H/V	74(Peak)/ 54(AV)	
17234		H/V	74(Peak)/ 54(AV)	
19696		H/V	74(Peak)/ 54(AV)	
22158		H/V	74(Peak)/ 54(AV)	
24650		H/V	74(Peak)/ 54(AV)	

Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11b mode at 11Mbps

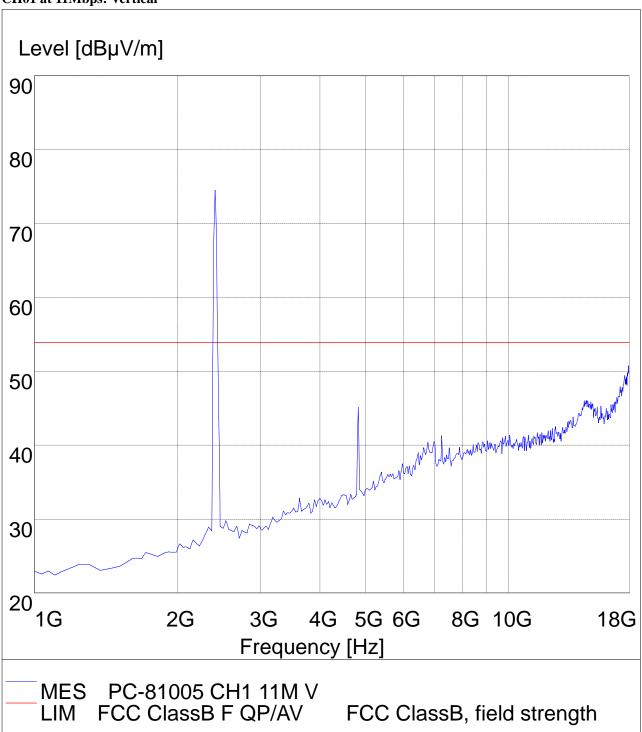
Date: 2008-07-16

4. Test results are for the worst case condition



Please refer to the following test plots for details

CH01 at 11Mbps: Vertical

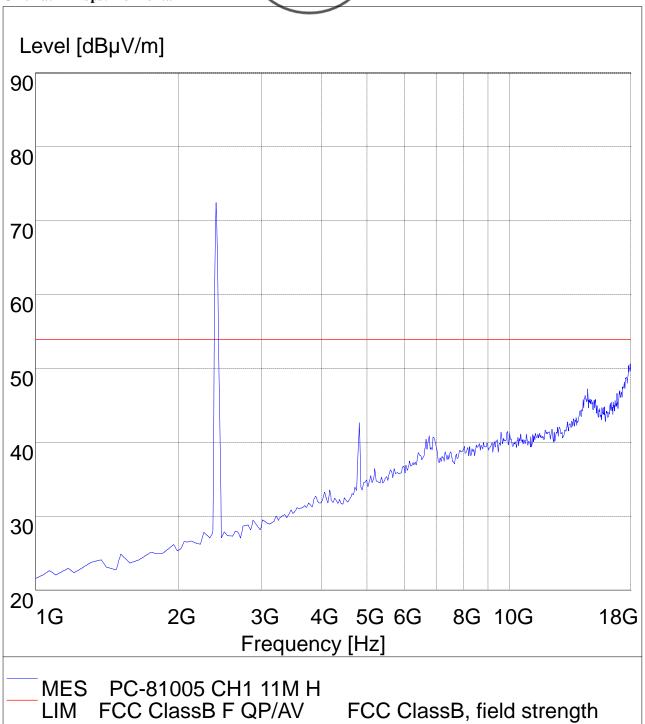


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CH01 at 11Mbps: Horizontal



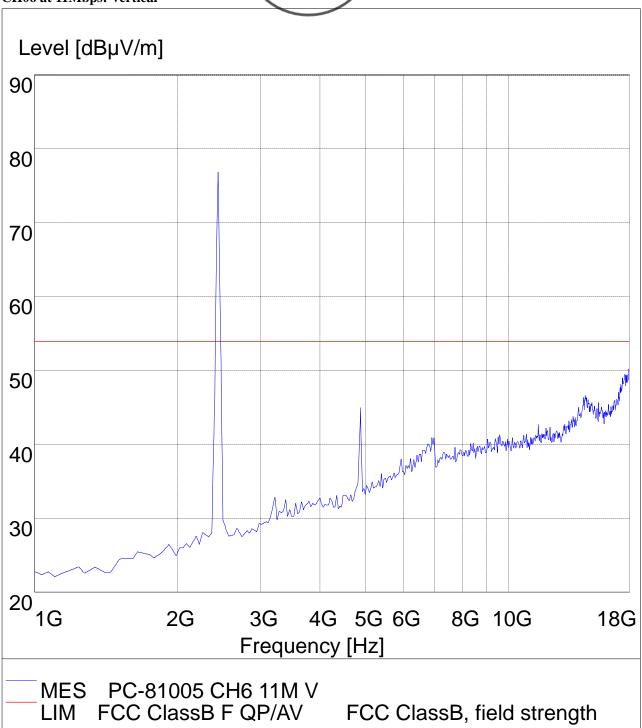
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CH06 at 11Mbps: Vertical



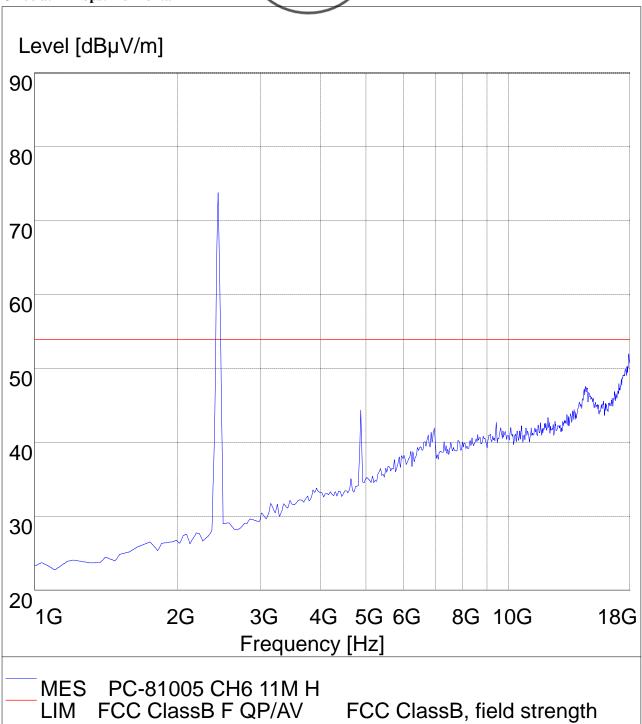
The report refers only to the sample tested and does not apply to the bulk.

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CH06 at 11Mbps: Horizontal

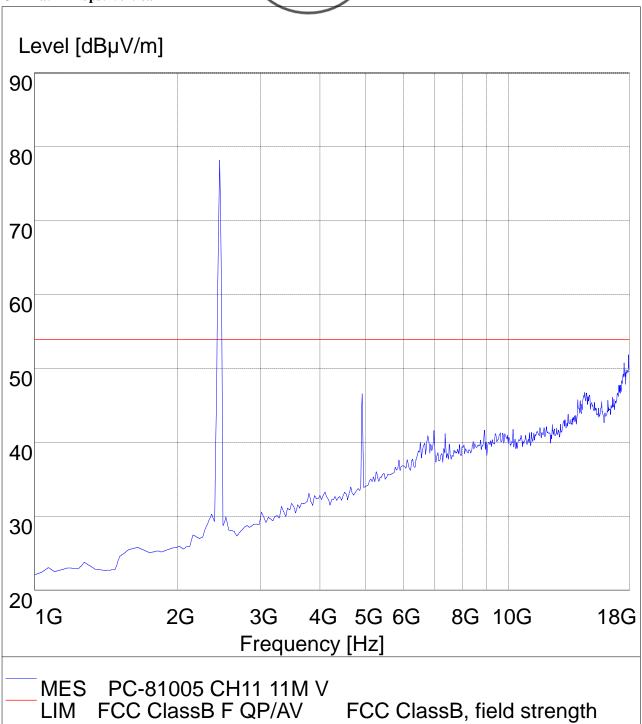


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CH11 at 11Mbps: Vertical

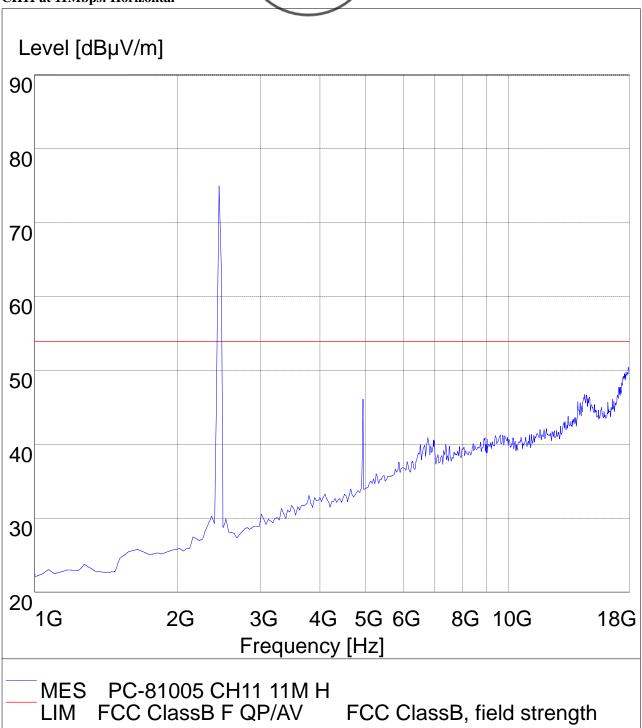


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CH11 at 11Mbps: Horizontal

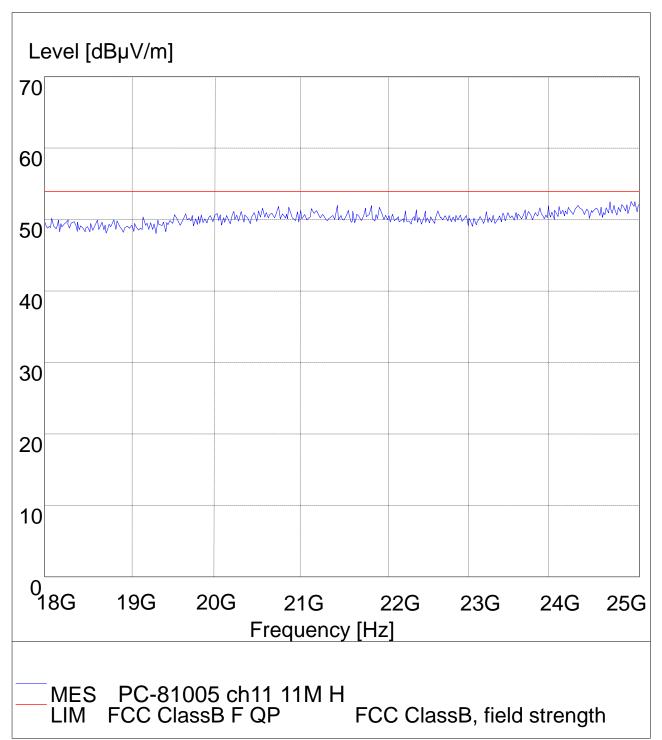


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18-25G CH11 11M Horizontal



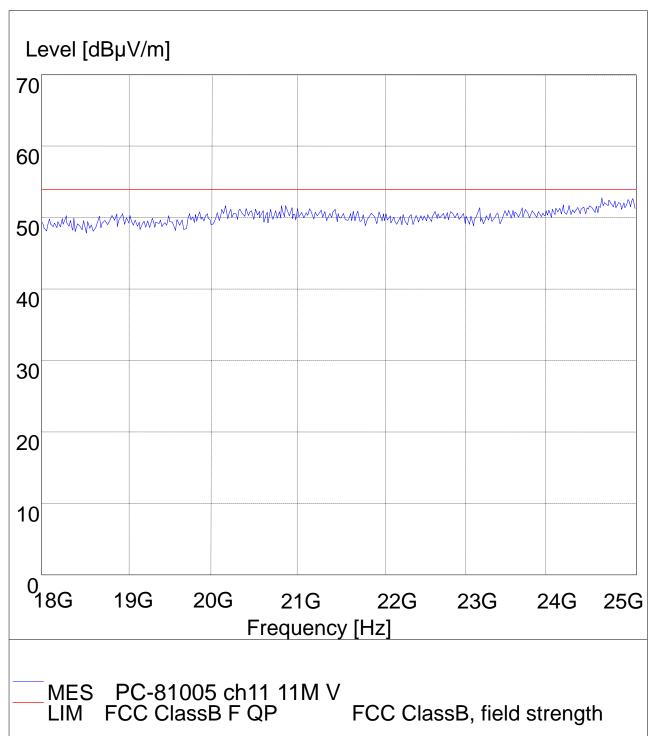
The report refers only to the sample tested and does not apply to the bulk.

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18-25G CH11 11M Vertical



The report refers only to the sample tested and does not apply to the bulk.

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ANALYZER

7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500KHz

EUT

7.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator.

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 100 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4 Test Result

EUT		Notebook		Model		PC-81005		
Mode		802.11b			Input Voltage		120V~	
Temperat	Temperature 24 deg. C,		Humidity		56% RH			
Channel		el Frequency (MHz)	Data Transfer 6 dB Bank Rate (MH (Mbps)			Minimum Limit (MHz)		Pass/ Fail
1		2412	1 11		.06 .58		0.5	Pass
6	2437		1 11	12.10 11.70			0.5	Pass
11		2462	1 11		.59 .78		0.5	Pass

The report refers only to the sample tested and does not apply to the bulk.

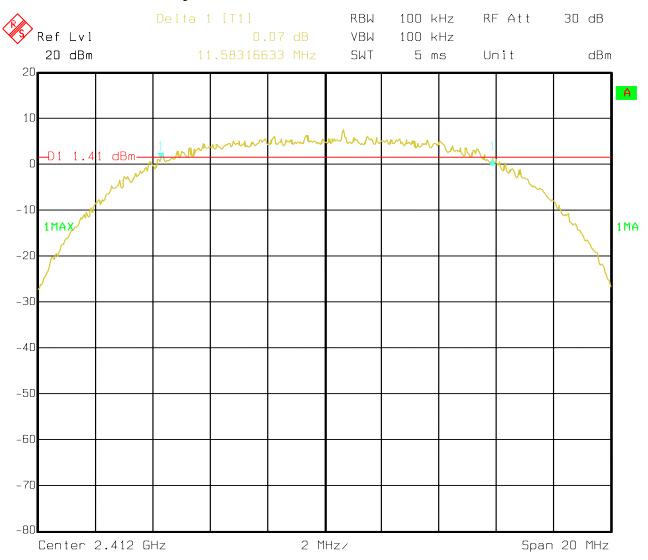
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Test Figure:

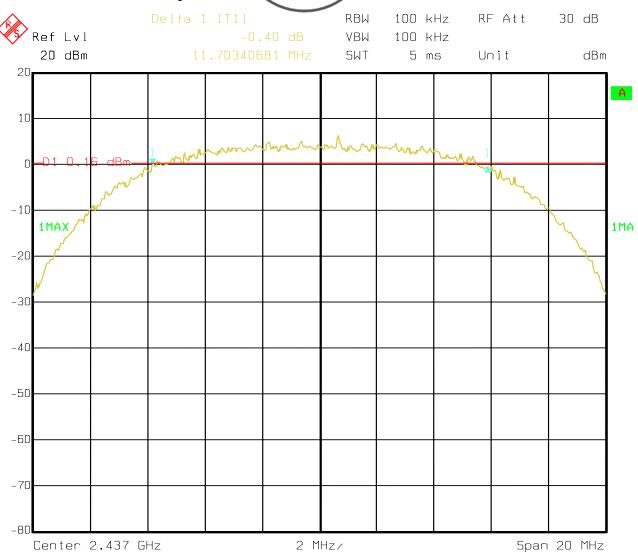
1. Condition: 802.11b at 11Mbps of CH01



Date: 27.JUN.2008 15:58:13

Date: 2008-07-16

2. Condition: 802.11b at 11Mbps of CH06



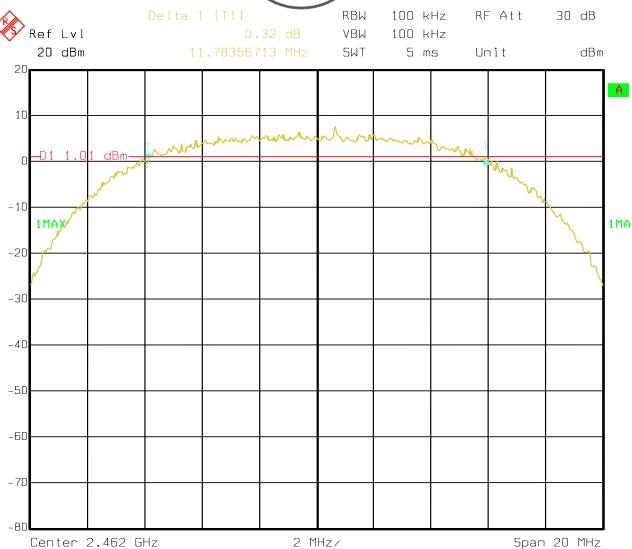
Date: 27.JUN.2008 16:01:31

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3. 802.11b at 11Mbps of CH11



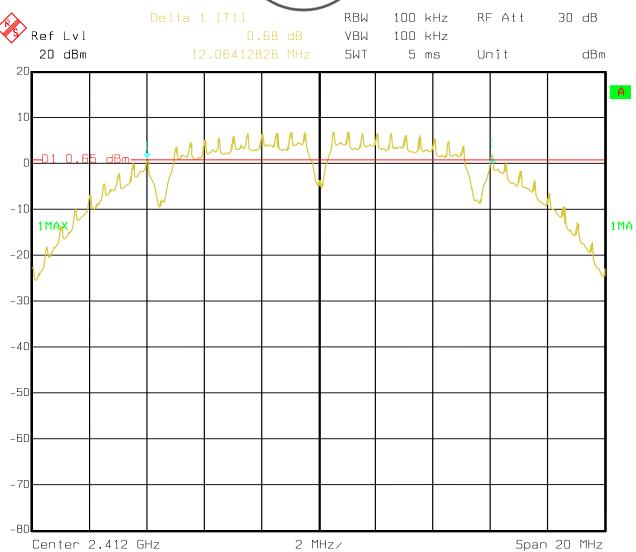
Date: 27.JUN.2008 16:04:21

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4. 802.11b at 1Mbps of CH01

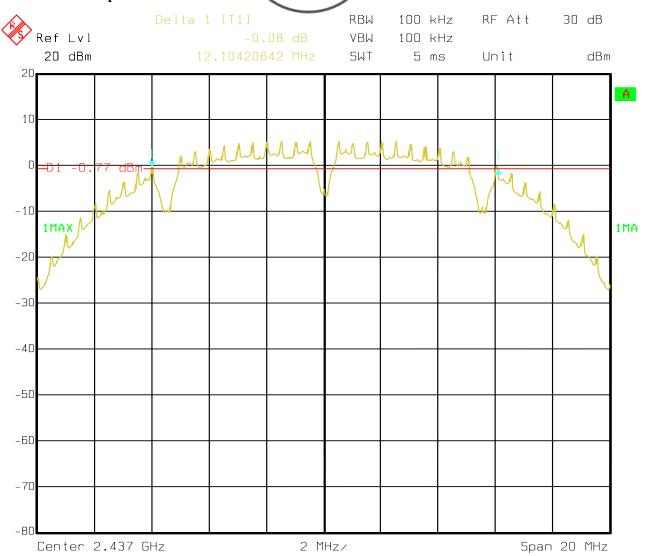


Date: 27.JUN.2008 16:12:49

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5. 802.11b at 1Mbps of CH06

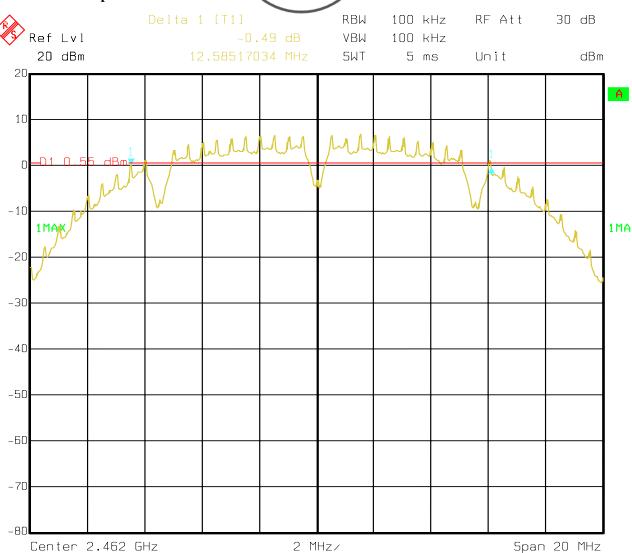


Date: 27.JUN.2008 16:09:19

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6. 802.11b at 1Mbps of CH11



Date: 27.JUN.2008 16:07:27

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				_/ <i>\&</i> }				
EUT	T N		otebook		Model		PC-81005	
Mode		8	302.11g		Input Voltage		120V~	
Temperat	ure	24 deg. C,			Humidity	y 56% RH		
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		undwidth Hz)		num Limit MHz)	Pass/ Fail
1		2412	6	16	.39		0.5	Pass
		2412	54	16	.51			
6		2437	6	16	.39		0.5	Pass
		2431	54	16	.47			
11	2462		6	16	5.43		0.5	Pass
		2462	7 4	1.0		1		

16.55

54

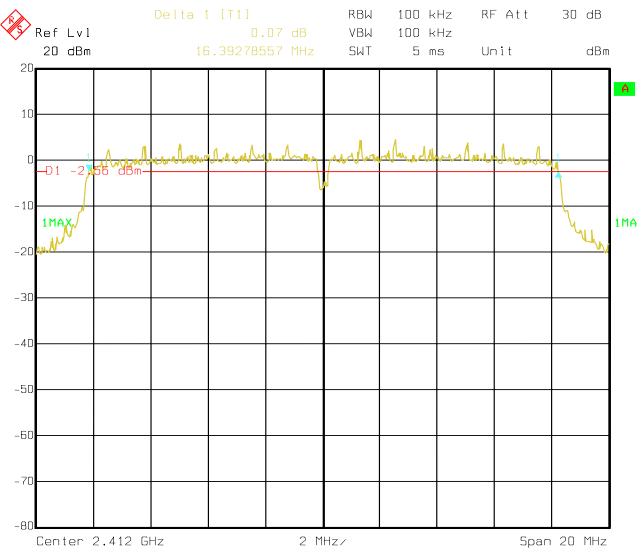
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Test Plots:

1. 802.11g at 6Mbps of CH01

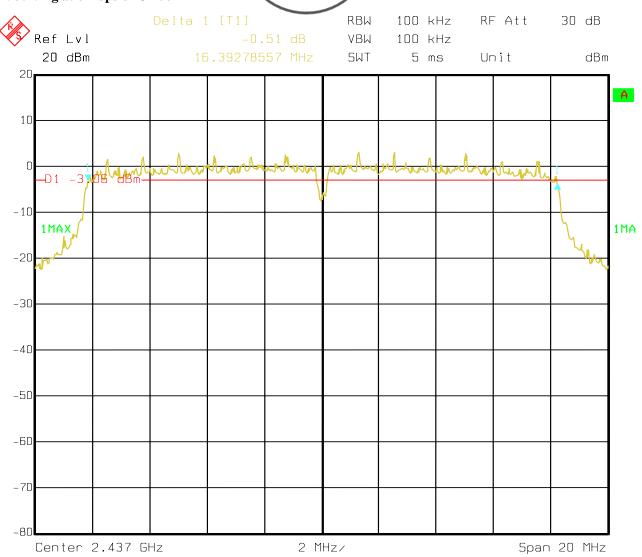


Date: 27.JUN.2008 15:56:32

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2. 802.11g at 6Mbps of CH06



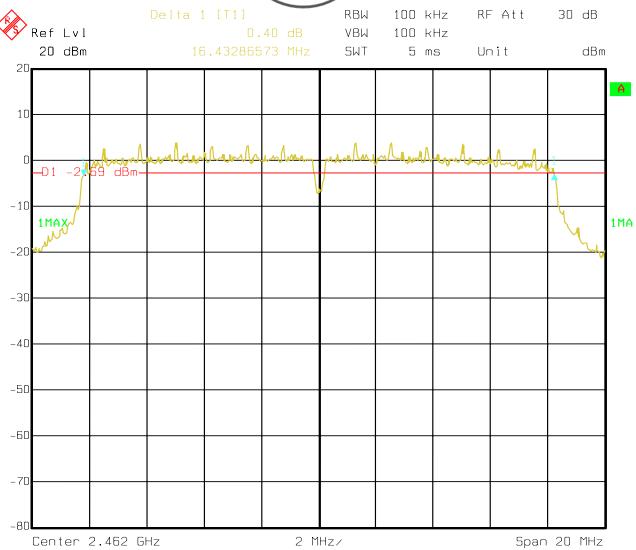
Date: 27.JUN.2008 15:55:28

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3. 802.11g at 6Mbps of CH11



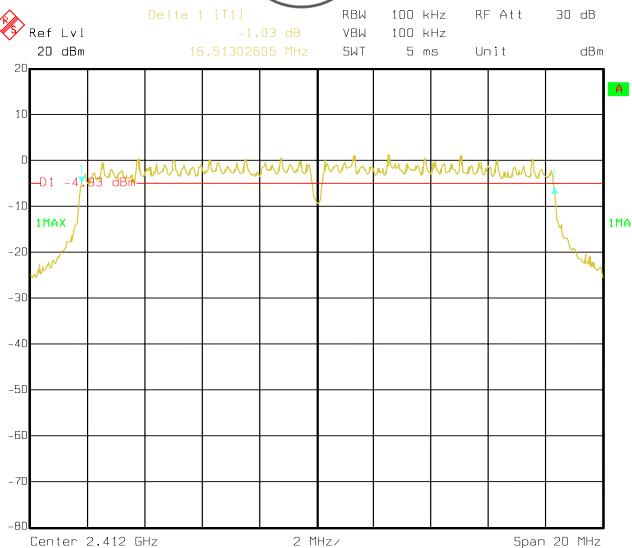
Date: 27.JUN.2008 15:53:54

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4. 802.11g at 54Mbps of CH01



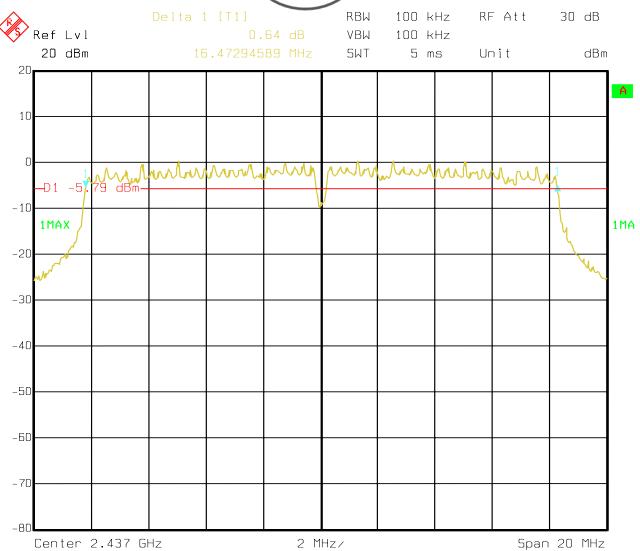
Date: 27.JUN.2008 16:15:05

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5. 802.11g at 54Mbps of CH06



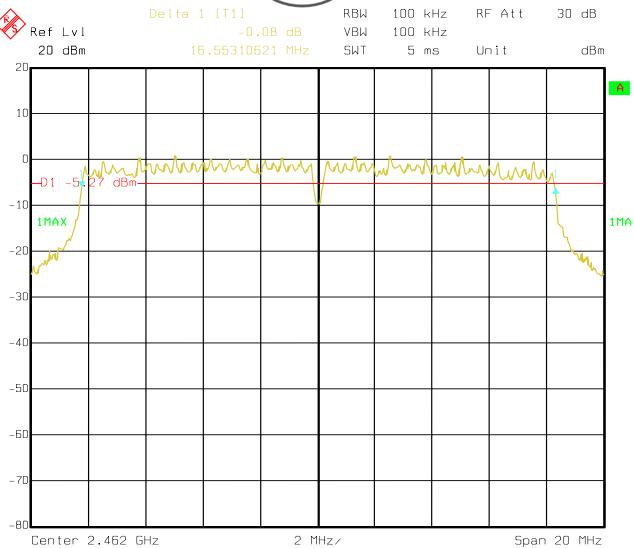
Date: 27.JUN.2008 16:17:51

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6.802.11g at 54Mbps of CH11



Date: 27.JUN.2008 16:20:23

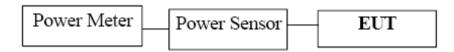
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8. Maximum Peak Output Power

8.1 Test Setup



8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

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8.4Test Results

EUT		Noteb	ook M		odel	PC-81005	
Mode	le 802.1		I1b Input		Input Voltage		120V~
Temperati	Temperature 24 deg.		g. C, Hun		nidity	50	6% RH
Channel	Ch	annel Frequency (MHz)	Peak Power Output (dBm)		Peak P Lin (dB:	nit	Pass/ Fail
1		2412	11.66		30)	Pass
6		2437	11.62		30)	Pass
11		2462	11.69		30)	Pass

Note: 1. At finial test to get the worst-case emission at 11Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

EUT		Noteb	ook	Model		PC-81005	
Mode	Mode 802.1		1g Inp		Input Voltage		20V~
Temperat	nperature 24 deg. C, Humie		s. C, Humidity 5		5% RH		
Channel	Cha	annel Frequency (MHz)			Peak Power Limit (dBm)		Pass/ Fail
1		2412	12.67		30)	Pass
6		2437	12.67		30)	Pass
11		2462	12.83		30)	Pass

Note: 1. At finial test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11

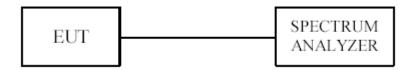
2. The result basic equation calculation as follow:

Peak Power Output = Peak Power Reading + Cable loss + Attenuator

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9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3KHz RBW and 10kHz VBW, set sweep time=100s

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.

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9.4Test Result

EUT		Noteb	ook Mo		odel Po		C-81005	
Mode	Mode 802.11		Ilb Input		Voltage	1	20V~	
Temperati	ure	24 deg. C, Humidity		nidity 569		5% RH		
Channel	Cha	annel Frequency (MHz)	Final RF Po Level in 3kH: (dBm)		Maximum Limit (dBm)		Pass/ Fail	
1		2412	-6.37		8		Pass	
6		2437	-8.43		8		Pass	
11		2462	-6.55	8		Pass		

Note: For 802.11b mode at finial test to get the worst-case emission at 11Mbps for CH11, CH06 and CH01

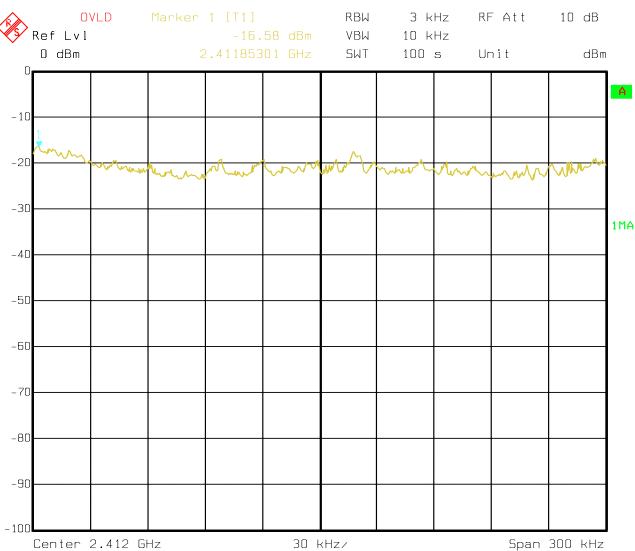
EUT		Noteb	ook Mo		odel F		PC-81005	
Mode	ode 802.1		l1g In		Input Voltage		20V~	
Temperat	erature 24 deg. C, Hun		midity 5		6% RH			
Channel	Cha	annel Frequency (MHz)	Final RF Po Level in 3kH: (dBm)		Maximur (dB		Pass/ Fail	
1		2412	-16.58		8		Pass	
6		2437	2437 -17.62		8		Pass	
11		2462	-16.22	•	8		Pass	

Note: For 802.11g mode at finial test to get the worst-case emission at 6Mbps for CH11, CH06 and CH01

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9.5Photo of Power Spectral Density Measurement

1.802.11g at 6Mbps of CH01

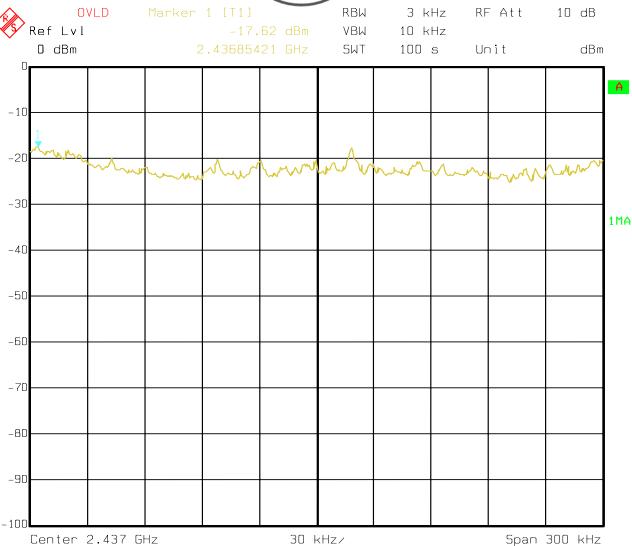


Date: 27.JUN.2008 16:54:51

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2. 802.11g at 6Mbps at CH06



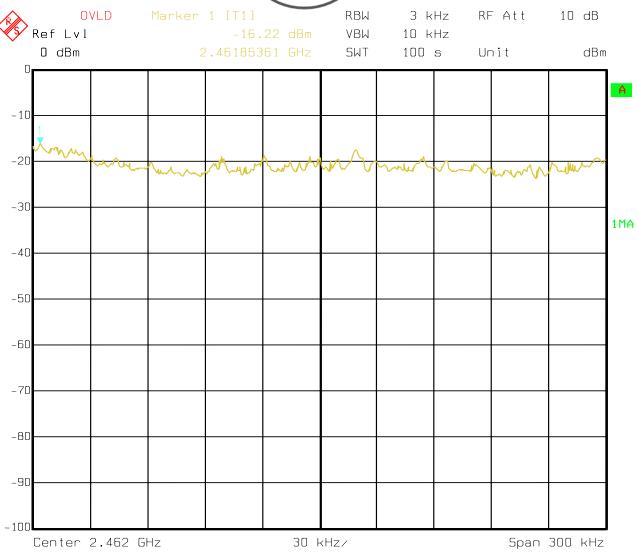
Date: 27.JUN.2008 16:57:13

Date: 2008-07-16

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3. 802.11g at 6Mbps of CH11

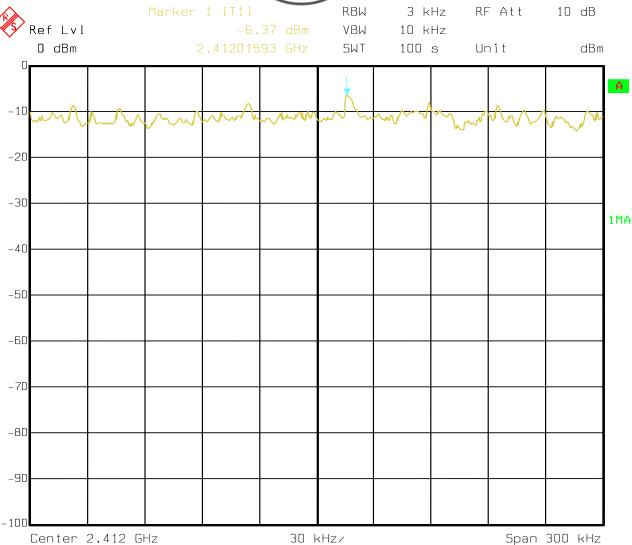


Date: 27.JUN.2008 16:59:49

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4. 802.11b at 11Mbps of CH01



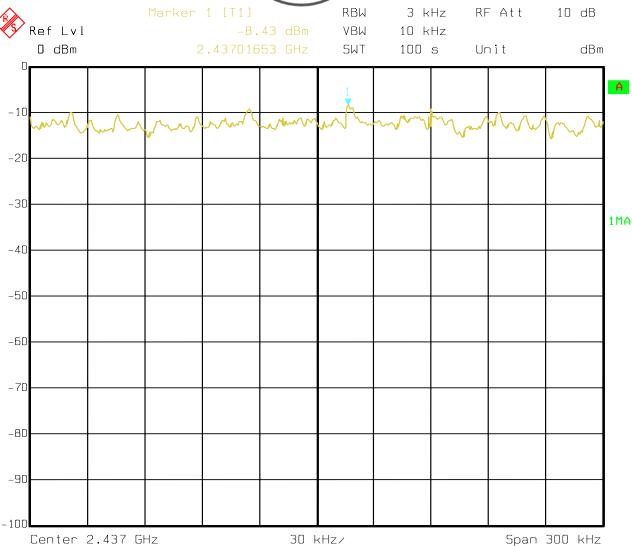
Date: 27.JUN.2008 16:51:55

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5. 802.11b at 11Mbps of CH06



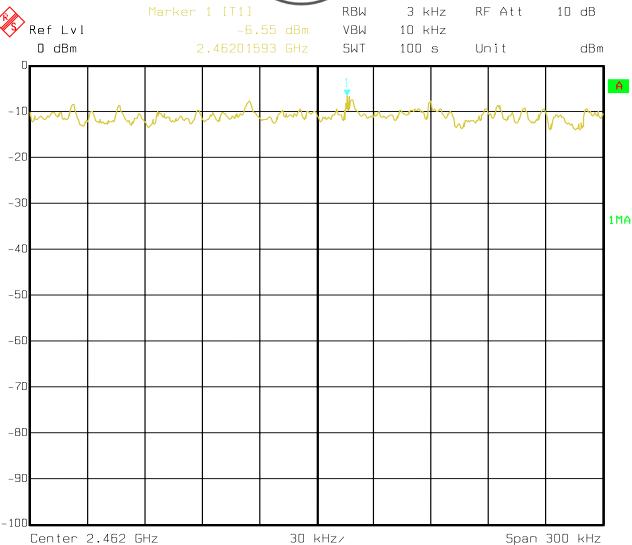
Date: 27.JUN.2008 16:48:58

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6. 802.11b at 11Mbps of CH11



Date: 27.JUN.2008 16:46:42

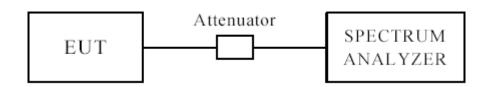
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10 Out of Band Measurement

10.1 Test Setup



10.2 Limits of Out of Band Emissions Measurement

- 1. Below –20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
- 2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=10Hz) are attached on the following pages.

10.4Test Result

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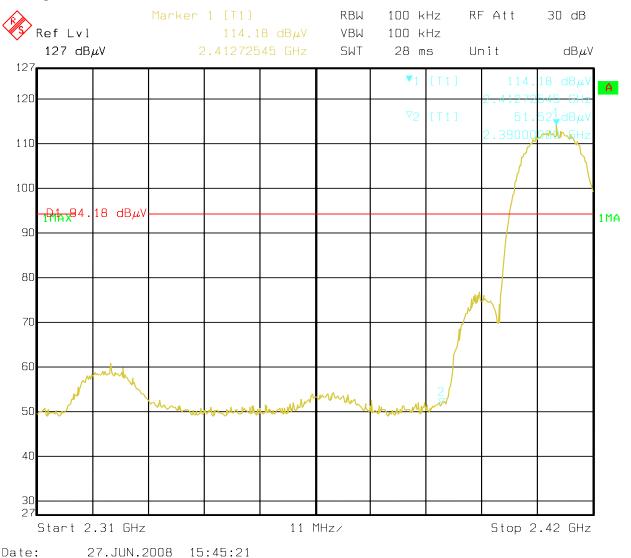
For 802.11b mode

CH01 at 11Mbps

10.4 Out of Band Test Result

Product:	Notel	oook	Test Mode:	CH1
Mode	Keeping Tr	ansmitting	Input Voltage	120V~
Temperature	24 de	g. C,	Humidity	56% RH
Test Result:	Pas	SS	Detector	PK
The Max. FS in	PK (dBµV/m)	48.4(H)/43.1(V)	Limit	$74(dB\mu V/m)$
Restrict Band	$AV(dB\mu V/m)$	38.9(H)/31.2(V)	Lillill	54(dBμV/m)

Test Figure:



Note: The Max. FS in Restrict Band are measured in conventional method.

The report refers only to the sample tested and does not apply to the bulk.

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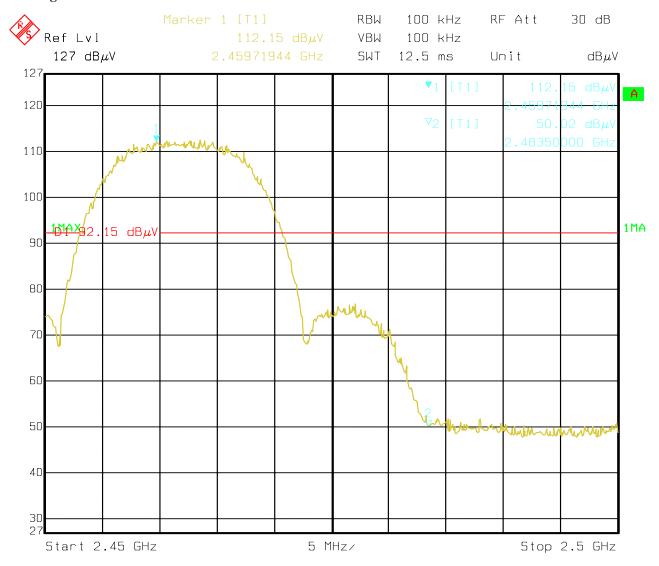


CH11 at 11Mbps

10.4 Out of Band Test Result

Product:	Notel	ook	Test Mode:	CH11
Mode	Keeping Tra	ansmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK ($dB\mu V/m$)	48.4(H)/45.9(V)	Limit	$74(dB\mu V/m)$
Restrict Band	$AV(dB\mu V/m)$	33.7(H)/32.5(V)	Lillit	54(dBµV/m)

Test Figure:



Date: 27.JUN.2008 15:51:12

Note: The Max. FS in Restrict Band are measured in conventional method.

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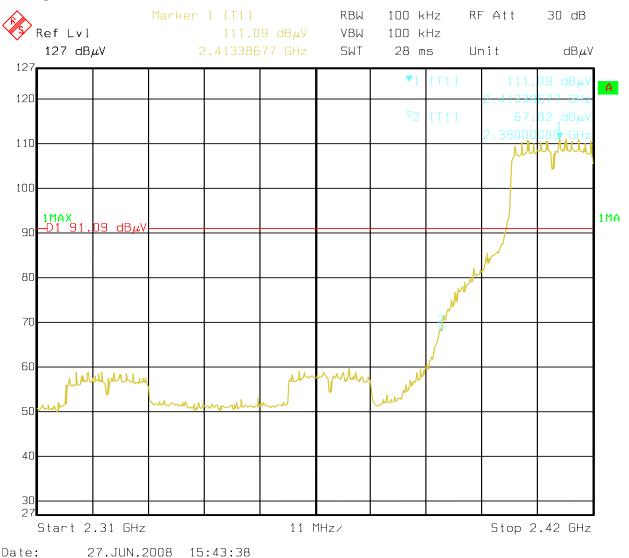
For 802.11g mode

CH01 at 6Mbps

10.4 Out of Band Test Result

Product:	Notel	oook	Test Mode:	CH1
Mode	Keeping Tr	ansmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK (dBμV/m)	54.3(H)/51.7(V)	T • • •	$74(dB\mu V/m)$
Restrict Band	$AV(dB\mu V/m)$	42.8(H)/40.1(V)	Limit	$54(dB\mu V/m)$

Test Figure:



pate. 27.30N.2000 13.43.30

Note: The Max. FS in Restrict Band are measured in conventional method.

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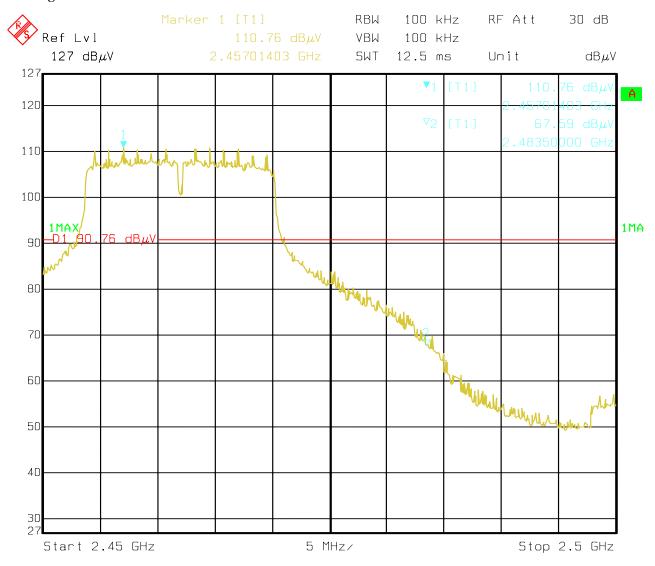


CH11 at 6Mbps

10.4 Out of Band Test Result

Product:	Notel	ook	Test Mode:	CH11
Mode	Keeping Tr	ansmitting	Input Voltage	120V~
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
The Max. FS in	PK ($dB\mu V/m$)	53.6(H)/48.9(V)	Limit	$74(dB\mu V/m)$
Restrict Band	$AV(dB\mu V/m)$	40.1(H)/38.7(V)	Lillill	54(dBµV/m)

Test Figure:



Date: 27.JUN.2008 15:52:00

Note: The Max. FS in Restrict Band are measured in conventional method.

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11.0 Antenna Requirement 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi

are used, the power shall be reduced by the mount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

There are two antennas used in the device. An RF cable connected the IPX connector with the antenna board. The maximum Gain of both antennas is 1.5dBi.

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12.0 Maximum Permissible Exposure

Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This is a Portable device.

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

Measurement Result

This is a laptop and the conducted output power is 12.83 dBm (19.187 mW), which is lower than low threshold 60/fGHz mW (60/2.462 GHz = 24.37 mW), and the antenna is 1.5 dBi which is less than 6 dBi.

The SAR measurement is not necessary.

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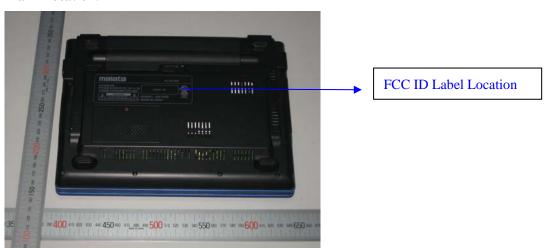


13.0 FCC ID Label

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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14.0 Photo of testing

14.1 Conducted test View--

N/A

14.2 Emission Radiated test View--



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14.3 Photo for the EUT



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14.4 Photo for the EUT



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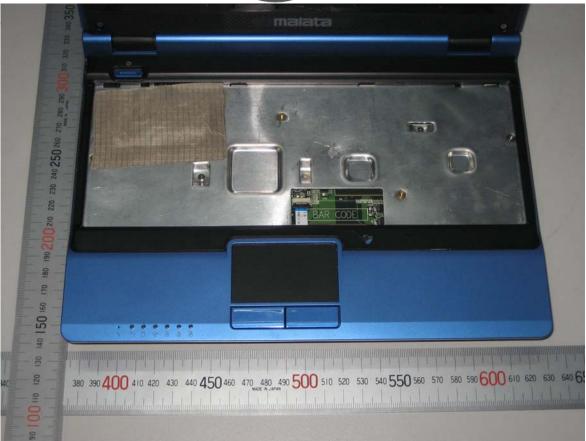
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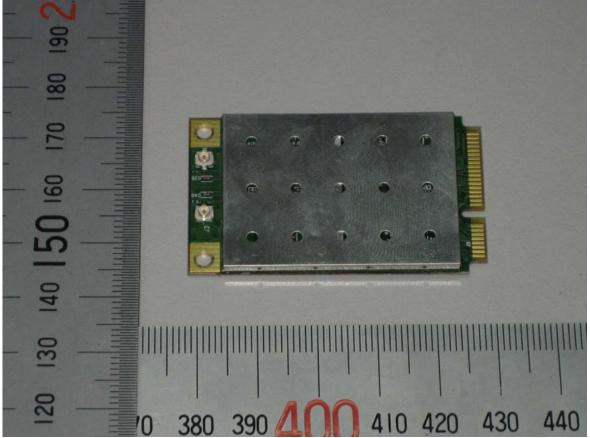
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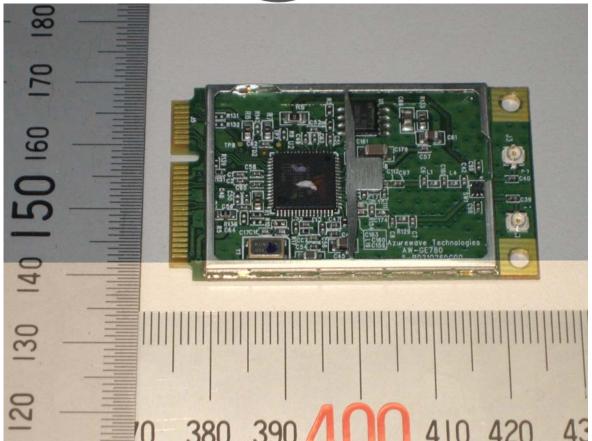
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End of the report