



ETS Dr.GenZ Taiwan PS Co., Ltd.

FCC Registration No.: 930600

Industry Canada filed test laboratory Reg. No. IC 5679

Accredited Testing Laboratory



A2LA Cert.No.: 2300.01

PTCRB Accredited Type Certification Test House

FCC

TEST - REPORT

FCC Part 15 C for IEEE 802.11 b device

FCC ID: RXZ-WP71RL

Test report no.: W6M20603-6773-C-1

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1 General Information**1.1 Notes**

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the ETS DR. GENZ TAIWAN PS CO., LTD.

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

The test sample is able to work according IEEE 802.11 b.

This report is related to FCC Part 15 C (DSSS device).

Tester:

April 17, 2006

Jay Chaing



Date

ETS-Lab.

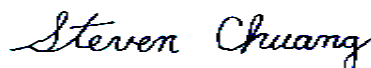
Name

Signature

Technical responsibility for area of testing:

April 17, 2006

Steven Chung



Date

ETS

Name

Signature

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1.2 Testing laboratory

1.2.1 Location

OATS
No.5-1, Shuang Sing Village,
LiShuei Rd., Wanli Township,
Taipei County 207, Taiwan (R.O.C.)

Company
ETS Dr.Genx Taiwan PS Co., Ltd.
6F, NO. 58, LANE 188, RUEY-KUANG RD.
NEIHU, TAIPEI 114, TAIWAN R.O.C.
Tel : 886-2-66068877
Fax : 886-2-66068879

1.2.2 Details of accreditation status

Accredited testing laboratory

A2LA-registration number: 2300.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679

PTCRB Accredited Type Certification Test House

1.3 Details of approval holder

Name	: Pro-Nets Technology Corporation
Street	: 7F,No.95,Lide St,Chung Ho City
Town	: Taipei 235
Country	: Taiwan, R.O.C.
Telephone	: +886-2-8221-8385#713
Fax	: +886-2-3234-5818

Contact	: Mr. SAM YU
Telephone	: +886-2-8221-8385#713

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1.4 Application details

Date of receipt of application : March 31, 2006
 Date of receipt of test item : April 06, 2006
 Date of test : from April 06, 2006 to April 17, 2006

1.5 General information of Test item

Type of test item : Wireless PCI Card
 Model Number : WP71RL
 Serial Model Number : ./.
 Brand Name : PRO-NETS,Speed Com+,Jet Com,Medilink
 Hardware : 1.0
 Software : 1.0.2.0
 Serial number : without
 Photos : see Annex

Technical data

Frequency band : 2.4 GHz – 2.4835 GHz
 Frequency (ch A) : 2.412 GHz
 Frequency (ch B) : 2.437 GHz
 Frequency (ch C) : 2.462 GHz
 Number of Channels : 11
 Operation modes : duplex
 Modulation Type : DSSS

Fixed point-to-point operation : ☐ Yes / ☒ No
 Type of Antenna 1 (TX) : Dipole Antenna
 Type of Antenna 2 (RX) : Dipole Antenna
 Type of Antenna 3 (RX) : Dipole Antenna
 Antenna gain of Antenna 1 (TX) : 2.09 dBi
 Antenna gain of Antenna 2 (RX) : 2.09 dBi
 Antenna gain of Antenna 3 (RX) : 2.09 dBi
 Power supply : 120 VAC (power on pc)
 Emission designator : 17M1G1D

Remark: There are 3 antennas in this case. One of the TX antenna in the middle, and the other 2 RX antennas in the two side of TX. When testing TX mode, only TX antenna in the middle will operate. When testing RX mode, the TX antenna in the middle will not operate, but the other 2 RX antennas in the two side of TX will operate at the same time.

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Host device: none

Classification :

Fixed Device	☒
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐

Transmitter**Unom****Power (ch A)** : Conducted: 15.69 dBm**Power (ch B)** : Conducted: 15.95 dBm**Power (ch C)** : Conducted: 15.79 dBm**Manufacturer:**

(if different from applicant)

Name : ./.

Street : ./.

Town : ./.

Country : ./.

Additional information: The sample is using WLAN technology according IEEE 802.11 b/g. For this report the function according IEEE 802.11b is considered only. The scheme for frequency generation, spectrum spreading, receiver parameters, synchronization procedure, and other parameters are determined by the mentioned standard above.

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B / SUBPART C § 15.247

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2 Technical test

2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.



or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.



2.2 Test environment

Temperature	: 23 °C
Relative humidity content	: 20 ... 75 %
Air pressure	: 86 ... 103 kPa
Details of power supply	: 120 VAC (power on pc)
Extreme conditions parameters	: --

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2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2005/10/27	2006/10/26
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW		
ETSTW-CE 004	ZWEILEITER-V- NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2005/10/25	2006/10/24
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2005/10/21	2006/10/20
ETSTW-CE 006	IMPULS-BEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2004/11/11	2006/11/10
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	ABSORPTIONS- MESSWANDLER- ZANGE	2005/10/24	2007/10/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40- 1P-U	MAA0305-009	GIANT FORCE	2005/8/18	2006/8/17
ETSTW-CS 001	SIGNAL GENERATOR	SMX	849254/003	R&S	2005/10/14	2006/10/13
ETSTW-CS 002	COUPLING AND DECOUPLING NETWORK	CDN S751	19263	SCHAFFNER	2005/10/14	2006/10/13
ETSTW-CS 003	COUPLING AND DECOUPLING NETWORK	CDN T400	19820	SCHAFFNER	2005/10/14	2006/10/13
ETSTW-CS 004	COUPLING AND DECOUPLING NETWORK	CDN M016	20053	SCHAFFNER	2005/10/27	2006/10/26
ETSTW-CS 005	RF Power Amplifier	100A250A	306547	AR	2005/10/14	2006/10/13
ETSTW-CS 004	6 dB Attenuator	HFP-5100-3/06 N M/F	2010876106			
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2005/10/14	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2005/10/24	2006/10/23
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2005/10/29	2006/10/30
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2005/10/16	2006/10/15
ETSTW-RE 015	ANTENNA	HK116	841489/003	R&S	2005/1/14	2007/1/11
ETSTW-RE 016	ANTENNA	HL223	848953/006	R&S	2005/1/14	2007/1/11
ETSTW-RE 017	ANTENNA	HL025	352886/001	R&S	2005/9/6	2007/9/3
ETSTW-RE 018	ANTENNA	AT4560	27212	AR	2004/11/8	2007/11/7
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2005/10/14	2006/10/13
ETSTW-RE 022	AMPLIFIER	8447D	2944A09837	Brüel&Kjær	2005/10/14	2006/10/13
ETSTW-RE 027	Passive Loop Antenna	6512	34563	EMCO	2004/6/30	2007/6/29

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ETSTW-RE 030	Double-Ridged Waveguide Horn Antenna	3117	35224	EMCO	2004/5/5	2006/5/4
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2005/10/17	2006/10/16
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2006/10/16
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2008/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2005/5/19	2007/5/18
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2005/9/6	2006/9/5
ETSTW-EMI 001	HARMONICS 1000	HAR1000-1P	93	EMC-PARTNER	2005/9/11	2006/11/10
ETSTW-EMS 001	Clamp BASELSTRASSE 160 CH-4242 LAUFEN	CN-EFT1000	354	EMC-PARTNER	2004/11/2	2006/11/1
ETSTW-EMS 003	EMC Immunity Test System	TRA2000IN6	579	EMC-PARTNER	2005/10/27	2006/10/26
ETSTW-EMS 004	ESD generator minizap	ESD2000	016	EMC-PARTNER	2005/10/27	2006/10/26
ETSTW-EMS 008	Safety Test Solutions	ELT-400	E-0039	Narda	2005/1/4	2007/1/3
ETSTW-EMS 009	Magnetic Field Antenna	MF1000-1	104	EMC-PARTNER	2004/12/3	2007/12/2
ETSTW-EMS 010	Coupling De-coupling Network	CDN-UTP8	014	EMC-PARTNER	2005/9/1	2008/8/31
ETSTW-EMS 012	EM Injection Clamp	F-2031-23MM	476	FCC	2005/8/11	2007/8/11
ETSTW-RS 003	RF Power Amplifier	30S1G3	306933	AR		
ETSTW-RS 004	RF Power Amplifier	150W1000	307009	AR	2005/10/21	2006/10/20
ETSTW-RS 005	Electric Field Probe Type 8.3	EMR-20	BN 2244/20	Narda	2005/9/7	2006/9/6
ETSTW-RS 006	SIGNAL GENERATOR	SML03	101551	R&S	2005/10/21	2006/10/20
ETSTW-GSM 01	SIM Simulator	IT3	B2004-50106	ORGA	2005/9/15	2006/9/14
ETSTW-GSM 02	Universal Radio Communication Tester	CMU 200	103489	R&S	2005/11/15	2006/11/14
ETSTW-GSM 03	Agilent 8960 Test Set 1	E5515C	GB44052675	Agilent	2004/7/14	2006/7/13
ETSTW-GSM 04	Agilent 8960 Test Set 2	E5515C	GB44052665	Agilent	2004/7/14	2006/7/13
ETSTW-GSM 05	Agilent 8960 Test Set 3	E5515C	GB44052652	Agilent	2004/7/17	2006/7/16
ETSTW-GSM 06	Agilent 8960 Test Set 4	E5515C	GB44052684	Agilent	2004/7/16	2006/7/15
ETSTW-GSM 07	Agilent 8960 Test Set 5	E5515C	GB44052658	Agilent	2004/7/14	2006/7/13
ETSTW-GSM 08	Agilent 8960 Test Set 6	E5515C	GB44052666	Agilent	2004/7/16	2006/7/15
ETSTW-GSM 10	Combiner Wessex / Anite	B4605/100	053	Wessex / Anite	2004/7/14	2006/7/13

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ETSTW-GSM 11	GSM 850,900,1800,1900 Test system	TS8950G		R&S	2005/11/1	2006/10/31
ETSTW-GSM 12	Acoustical Calibrator	4231	2463874	Brüel&Kjær	2005/10/31	2006/10/30
ETSTW-GSM 13	Conditioning Amplifier	2690--0S2	2437856	Brüel&Kjær		
ETSTW-GSM 14	Telephone Test Head	4602B	2465324	Brüel&Kjær		
ETSTW-GSM 15	Mouth Simulator	4227	2462516	Brüel&Kjær		
ETSTW-GSM 16	TEMP.&HUMIDITY CHAMBER	GTH-120-40-1P-U	MAA0501002	GIANT FORCE	2005/12/29	2006/12/28
ETSTW-GSM 17	ANTENNT COPLER	CMU-Z10	100988	R&S		
ETSTW-GSM 18	AUDIO ANALYZER	UPL16	100173	R&S	2005/10/29	2006/10/28
ETSTW-GSM 23	SPLITTER	4901.19.A	None	SUHNER		
ETSTW-GSM 24	Vibration Testing System	VS-100V	5494	Vibration	2005/12/20	2006/12/19

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2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2003 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The ambient temperature of the UUT was 23°C with a humidity of 40 %.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2003 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by ETS Dr.Genx Taiwan PS Co., Ltd. at the registered open field test site located at No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) The Registration Number: 930600.

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When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = $20 \log (\text{dwell time}/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

ANTENNA & GROUND:

This unit uses Dipole Antenna (see photos)

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3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	☒	☒	☐
Equivalent radiated Power	15.247(b)(3)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c)	☒	☒	☐
Band Edge Measurement	15.247(c)	☒	☒	☐
Minimum 6 dB Bandwidth	15.247(a)(2)	☒	☒	☐
Peak Power Spectral Density	15.247(d)	☒	☒	☐
Radiated Emission from Digital Part And Receiver L.O.	15.109	☒	☒	☐
Power Line Conducted Emission	15.207	☒	☒	☐

The follows is intended to leave blank.

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3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
		[dBm]	[dBm]	[dBm]
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120 \text{ V}$	15.69	15.95	15.79
Measurement uncertainty		< 3 dB		

Test condition $T_{nom} = 23^{\circ}\text{C}$, $V_{nom} = 120 \text{ V}$	Signal Field strength TX highest power mode dB $\mu\text{V/m}$
Frequency [MHz]	
2437	112.92
Measurement uncertainty	< 3 dB

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain > 6 dBi and using fixed point-to-point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 017 , ETSTW-RE 024

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3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 15.95dBm + 2.09dBi

= 18.04dBm

Limit: EIRP = +36 dBm for Antenna gain <6dBi

3.2.1 Transmitter

Integral Antenna:

At the transmitter the measurement was transacted with the modulation declared by the manufacturer and the maximum available output power of the EUT.

In this arrangement the EUT fulfils the requirements of the FCC rules § 15.247, subpart C, section b.

3.3 RF Exposure Compliance Requirements

The test sample is a WLAN access point intended for fixed installation.

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain G = AG-D

Item	Unit	Value	Remarks
P	mW	39.35	Peak value
D	dB		
AG	dBi	2.09	
G		1.6	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.125255	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1,0

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3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 1000 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency $\leq$ 1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency $>$ 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency $>$ 1 GHz , RBW:1 MHz , VBW: 100Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction = $20 \log (\text{dwell time} / 100\text{ms})$

No duty cycle correction was added to the reading.

$54.0\text{dB } \mu\text{V/m} + 20 \text{ dB} = 74 \text{ dB } \mu\text{V/m}$

Remarks: see attached diagrams

Test equipment used: ETS 0125, ETS 0271

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3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. 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))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

For frequencies below 1GHz:

Max. reading – 20 dB

112.92dB μ V/m- 20 dB= 92.92dB μ V/m

Guidance on Measurement of DSSS Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction = $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Peak measurements).

Limit = max. aver. Reading-20dB+20dB(because Peak detector is used)

92.92dB μ V/m

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

No duty cycle correction was added to the reading

112.92dB μ V/m- 20 dB= 92.92dB μ V/m

Remarks: see attached diagrams

Test equipment used: ETSTW-RE 003 , ETSTW-RE 012 , ETSTW-RE 015 , ETSTW-RE 016 , ETSTW-RE 017 , ETSTW-RE 024

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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Duty-Cycle Correction Factor".

Summary table with radiated data of the test plots

Channel 1

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	35.791583	25.57	13.26	PK	38.83	92.92	54.09	185
	162.525050	21.82	15.35	PK	37.17	43.52	6.35	133
	360.320641	18.24	16.69	PK	34.93	92.92	57.99	151
	480.561122	14.1	19.59	PK	33.69	92.92	59.23	132
	2492.211306	55.8	-1.43	PK	54.37	74	19.63	135
	2492.211306	50.1	-1.43	AV	48.67	54	5.33	135
	2390.0	52.64	2.05	PK	54.69	74	19.31	162
	2390.0	46.67	2.05	AV	48.72	54	5.28	162
	4019.21322	48.56	3.32	PK	51.88	54	2.12	107

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	35.791583	20.75	13.26	PK	34.01	92.92	58.91	278
	162.525050	19.86	15.35	PK	35.21	43.52	8.31	206
	432.464930	16.17	18.49	PK	34.66	92.92	58.26	177
	963.126253	12.55	27.24	PK	39.79	54	14.21	306
	2390.0	59.78	2.05	PK	61.83	74	12.17	108
	2390.0	47.22	2.05	AV	49.27	54	4.73	108
	2492.102316	57.11	-1.43	PK	55.68	74	18.32	132
	2492.102316	49.75	-1.43	AV	48.32	54	5.68	132
	4019.21844	57.31	3.45	PK	60.76	74	13.24	102
	4019.21844	48.61	3.45	AV	52.06	54	1.94	102

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Channel 6

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	36.132265	22.33	13.31	PK	35.64	92.92	57.28	188
	162.525050	22.3	15.35	PK	37.65	43.52	5.87	135
	361.923848	14.82	16.70	PK	31.52	92.92	61.40	315
	480.561122	14.94	19.59	PK	34.53	92.92	58.39	137
	2388.777555	49.62	2.04	PK	51.66	54	2.34	109
	4056.112224	47.35	3.57	PK	50.92	54	3.08	110

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	36.132265	14.91	13.31	PK	28.22	92.92	64.7	277
	162.525050	19.21	15.35	PK	34.56	43.52	8.96	209
	432.464930	16.71	18.49	PK	35.21	92.92	57.71	179
	2359.34144	51.65	2.15	PK	53.8	74	20.2	106
	2359.34144	41.65	2.15	AV	43.8	54	10.2	106
	2390.0	58.29	2.05	PK	60.34	74	13.66	107
	2390.0	47.05	2.05	AV	49.10	54	4.9	107
	2484.77956	54.80	2.04	PK	56.84	74	17.16	164
	2484.77956	41.21	2.04	AV	43.25	54	10.75	164
	4060.92184	51.11	3.03	PK	54.14	74	19.86	131
	4060.92184	41.27	3.03	AV	44.30	54	9.7	131

Channel 11

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuv)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	35.791583	22.53	13.26	PK	35.79	92.92	57.13	188
	162.525050	20.69	15.35	PK	36.04	43.52	7.48	137
	360.320641	19.4	16.69	PK	36.09	92.92	56.83	316
	478.957916	15.99	19.57	PK	35.56	92.92	57.36	136
	2383.16633	60.29	2.04	PK	62.33	74	11.67	63
	2383.16633	41.38	2.04	AV	43.42	54	10.58	63
	2483.5	55.19	-1.09	PK	54.10	74	19.9	158
	2483.5	54.26	-1.09	AV	53.17	54	0.83	158
	4123.732144	43.99	2.73	PK	46.72	54	7.28	161

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Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	36.132265	18.02	13.31	PK	31.33	92.92	61.59	281
	162.525050	21.1	15.35	PK	36.45	43.52	7.07	211
	430.861763	16.73	18.48	PK	35.21	92.92	57.71	176
	565.531062	14.23	21.18	PK	35.41	92.92	57.51	196
	2385.17034	56.05	-1.09	PK	54.96	74	19.04	103
	2385.17034	44.65	-1.09	AV	43.56	54	10.44	103
	2488.12926	72.65	0.5	PK	73.15	74	0.85	103
	2488.12926	53.13	0.5	AV	53.63	54	0.37	103
	4123.732144	48.49	2.73	PK	51.22	54	2.78	162

Note : 1. Correction Factor = Antenna Factor + Cable Loss – Preamplifier.

2. The formula of measured value as: Test Result = Corrected Reading + Correction Factor.

3. Detector function in the form: P = Peak, QP = Quasi Peak, AV=Average.

Freq. – Frequency Range:

1:	30	-	200 MHz
2:	200	-	1000 MHz
3:	1	-	4 GHz
4:	4	-	8 GHz
5:	8	-	12 GHz
6:	12	-	17 GHz
7:	17	-	26.5 GHz

All not in the table noted test results are more than 20 dB below the relevant limits.

All other not noted test polts do not contain significant test results in relation to the limits.

TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.

Comment: see attached diagrams

Test equipment used: ETSTW-RE 003, ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-RE 024

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3.6 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission.

The 6 dB bandwidth is the frequency difference between the two markers.

Test conditions		6 dB Bandwidth		
		Channel A	Channel B	Channel C
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120 \text{ V}$	10.929487179 MHz	10.512820513 MHz	10.51282051 MHz
Measurement uncertainty		< 10 Hz		

Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

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3.7 Peak Power Spectral Density

Peak Power Spectral density is measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appropriate frequency span and sweep time.

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel A [dBm]	Channel B [dBm]	Channel C [dBm]
$T_{nom} = 23^{\circ}\text{C}$	$V_{nom} = 120 \text{ V}$	-8.69	-8.53	-8.88
Measurement uncertainty		< 3 Hz		

Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483,5	8
5725-5850	8

Test equipment used: ETSTW-CE 003 , ETSTW-RE 003

Comment: see attached diagram

3.8 Radiated Emissions from Receiver Section of Transceiver

FCC Rule: 15.109

Summary table with radiated data of the test plots**(RX)****Channel 1**

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	36.12224449	16.81	13.31	QP	30.12	40	9.88	266
	162.525050	23.01	15.35	PK	38.54	43.5	4.96	129
	360.320641	15.92	16.69	PK	32.61	46	13.39	248
	480.561122	13.06	19.59	PK	32.65	46	13.35	251
	632.865731	11.93	22.34	PK	34.27	46	11.73	266
	1432.865731	47.2	-8.32	PK	38.88	54	15.12	131
	1595.190381	54.65	-7.06	PK	47.59	54	6.41	132

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	36.132265	19.58	13.31	PK	32.89	40	7.11	232
	92.004008	23.66	10.83	PK	34.49	43.5	9.01	77
	432.464930	14.21	18.48	PK	32.69	46	13.31	217
	563.927856	12.69	22.84	PK	35.53	46	10.47	237
	966.332665	11.92	27.24	PK	39.16	54	14.84	225
	1595.190381	49.23	-7.06	PK	42.17	54	11.83	133

Channel 6

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	36.09594188	16.33	13.31	QP	29.64	40	10.36	251
	162.525050	20.74	15.35	PK	36.09	43.5	7.41	201
	360.320641	17.62	16.69	PK	34.31	46	11.69	205
	498.196393	12.78	19.79	PK	32.57	46	13.43	244
	600.801603	11.71	22.18	PK	33.89	46	12.11	248
	1595.190381	54.14	-7.06	PK	47.08	54	6.92	129

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Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	36.132265	19.82	13.31	PK	33.13	40	6.87	232
	93.026052	21.92	10.84	PK	32.76	43.5	10.74	188
	432.464930	14.12	18.48	PK	32.60	46	13.4	251
	565.531062	12.49	22.85	PK	35.34	46	10.66	244
	749.8998	10.23	24.66	PK	34.89	46	11.11	313
	963.126253	12.59	27.24	PK	39.83	54	14.17	211
	1595.190381	48.89	-7.06	PK	41.83	54	12.17	132

Channel 11

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
V	36.10345691	17.33	13.31	PK	30.64	40	9.36	255
	162.525050	21.35	15.35	PK	36.70	43.5	6.8	198
	360.320641	15.72	16.69	PK	32.41	46	13.59	208
	498.196393	12.71	19.79	PK	32.50	46	13.5	248
	631.262525	11.57	22.34	PK	33.91	46	12.09	255
	1595.190381	53.84	-7.06	PK	46.78	54	7.22	130

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)
H	35.791583	22.19	13.26	PK	35.45	40	4.55	255
	93.026052	23.47	10.84	PK	34.31	43.5	9.19	81
	240.080160	19.35	13.57	PK	32.92	46	13.08	177
	565.531062	12.41	22.85	PK	35.26	46	10.74	312
	966.332665	11.87	27.24	PK	39.11	54	14.89	214
	1595.190381	50.1	-7.06	PK	43.04	54	10.96	131

(Digital)

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
V	36.07339679	18.80	13.31	QP	32.11	40	7.89	271	192
	95.07014	20.66	11.00	PK	31.66	43.5	11.84	83	208
	155.03006	18.36	15.42	PK	33.78	43.5	9.72	143	124
	301.002004	13.25	15.26	PK	28.51	46	17.49	82	277
	358.717435	17.10	16.61	PK	33.71	46	12.29	317	311
	480.561122	17.04	19.59	PK	36.63	46	9.37	262	132

Antenna Polarization	Frequency Marker (MHz)	Corrected Reading (dBuV)	Correction Factor (dB)	Detector	Test Result (dBuV/m)	Compliance Limit (dBuV/m)	Margin (dB)	Table Azimuth (degree)	Antenna Height (cm)
H	36.096442	16.35	13.31	QP	29.66	40	10.34	245	278
	95.070140	21.53	11.00	PK	32.53	43.5	10.97	79	172
	162.52505	20.98	15.35	PK	36.33	43.5	7.17	168	205
	238.476954	22.42	13.26	PK	35.68	46	10.32	315	323
	432.464930	16.64	18.54	PK	35.18	46	10.82	225	171
	631.262525	14.37	22.41	PK	36.78	46	9.22	318	218
	963.126253	11.44	27.24	PK	38.68	54	15.32	201	312

- Note :**
1. Correction Factor = Antenna Factor + Cable Loss – Preamplifier.
 2. The formula of measured value as: Test Result = Corrected Reading + Correction Factor.
 3. Detector function in the form: P = Peak, QP = Quasi Peak, AV=Average.

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 015, ETSTW-RE 016, ETSTW-RE 017, ETSTW-CS 001, ETSTW-RE 026, ETSTW-RE 003, ETSTW-RE 025

Comment: see attached diagram

3.9 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table bellows with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Frequency	Level (dBμV)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line

LISN type	Frequency Marker	Corrected Reading (dBuV)		Correction Factor	Test Result (dBuV)		Compliance Limit (dBuV)		Margin (dB)	
N	MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	1.07778	34.5	33.4	10,1	44.5	43.5	56	46	11.5	12.5
	1.35939	34.3	33.4	10,1	44.4	43.5	56	46	11.5	2.5
	4.02140	27.3	21.8	10,1	37.4	31.9	56	46	28.6	14.1

LISN type	Frequency Marker	Corrected Reading (dBuV)		Correction Factor	Test Result (dBuV)		Compliance Limit (dBuV)		Margin (dB)	
L1	MHz	QP	AV	dB	QP	AV	QP	AV	QP	AV
	0.68988	28.1	27.3	10,1	38.2	37.4	56	46	17.8	8.6
	1.07413	29.1	28.4	10,1	39.2	38.5	56	46	16.2	7.5
	4.08090	22.8	18.0	10,1	32.9	28.1	56	46	23.1	17.9

Note: 1. The formula of measured value as: Test Result = Corrected Reading + Correction Factor

2. The Correction Factor = Cable Loss + LISN Insertion Loss

3. Detector function in the form : P = Peak, QP = Quasi Peak, AV = Average



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Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used: ETSTW-CE 004, ETSTW-CE 001, ETSTW-RE 023

Comment: see attached diagram

Appendix

- A Peak Output Power
- B Spurious Emissions radiated – Transmitter operating
- C Band Edge Measurement
- D Minimum 6dB Bandwidth
- E Peak Power Spectral Density
- F Radiated Emissions from Receiver Section of Transceiver
- G Power Line Conducted Emission
- H Pictures

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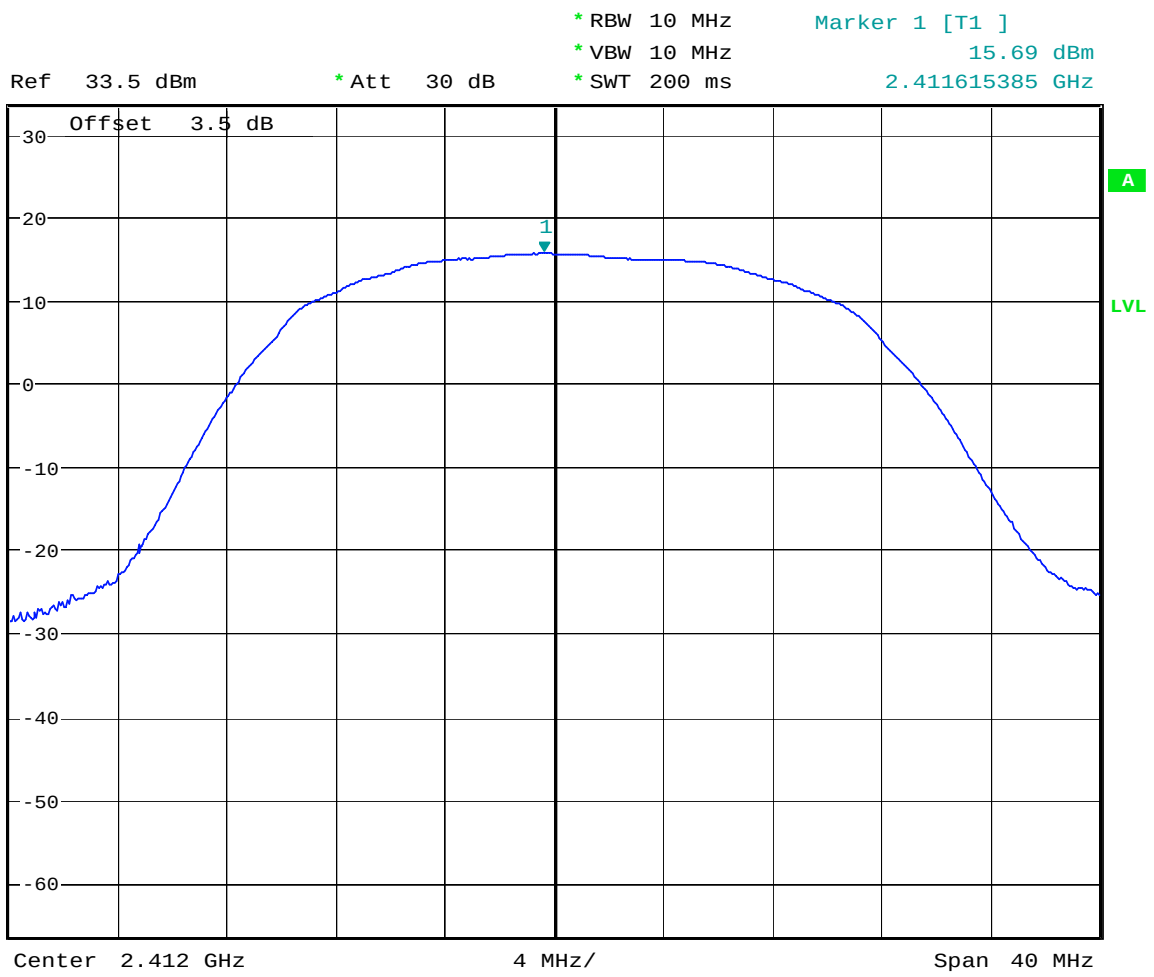
Appendix A

Peak Output Power

The measurement diagram are wideband pre-scan results; only for reference.

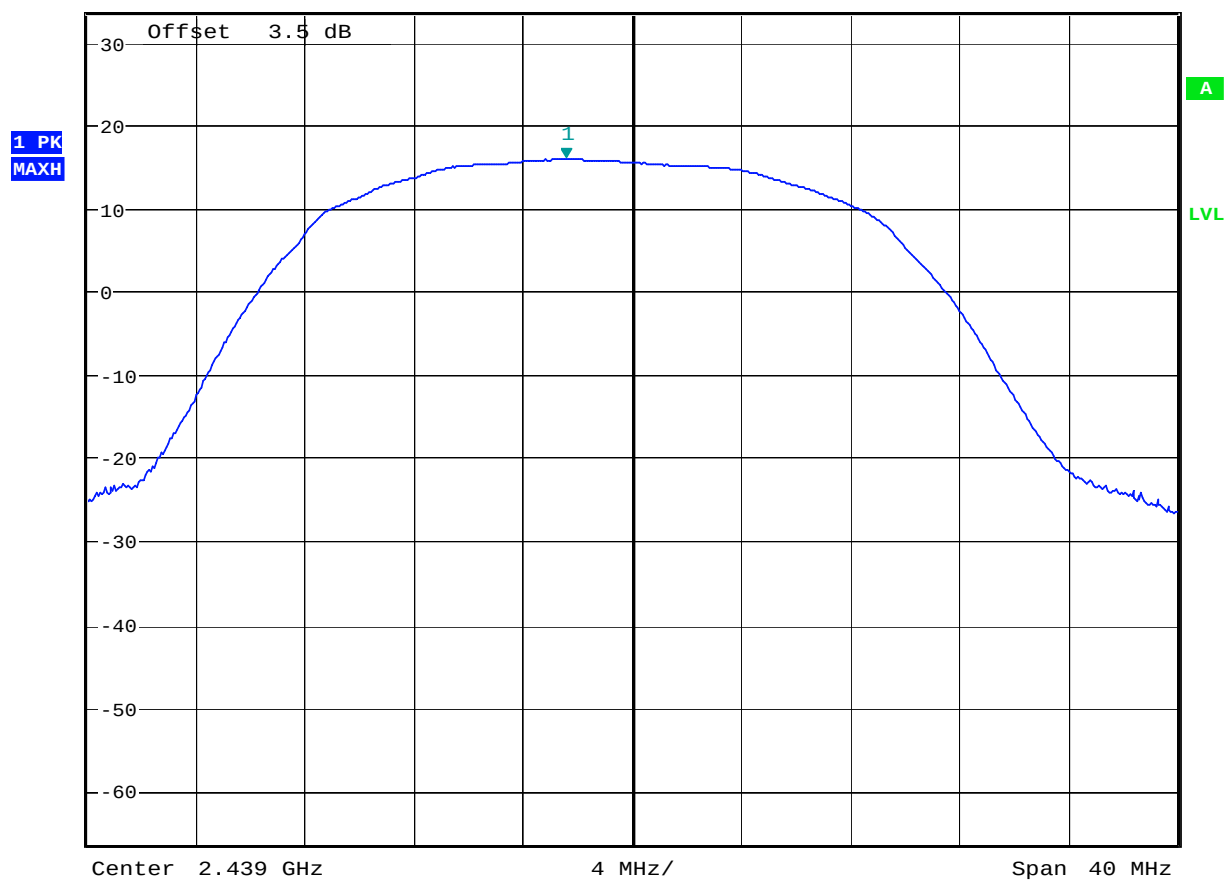
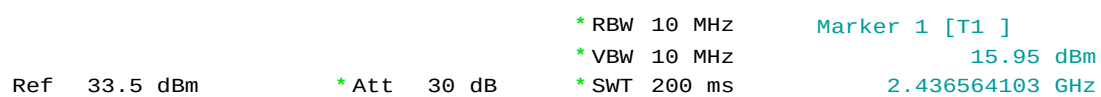


1 PK
MAXH



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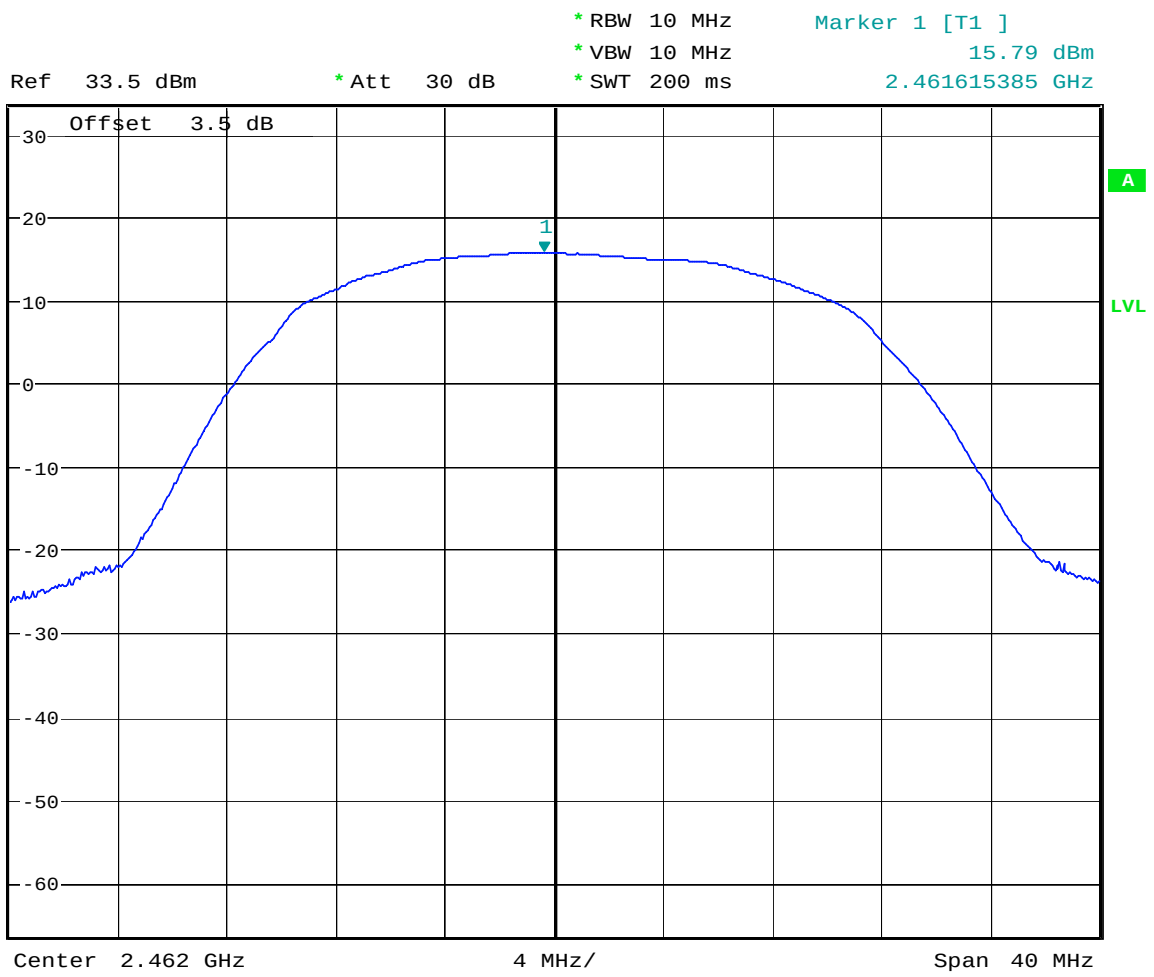
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Date: 14.APR.2006 10:18:34



1 PK
MAXH



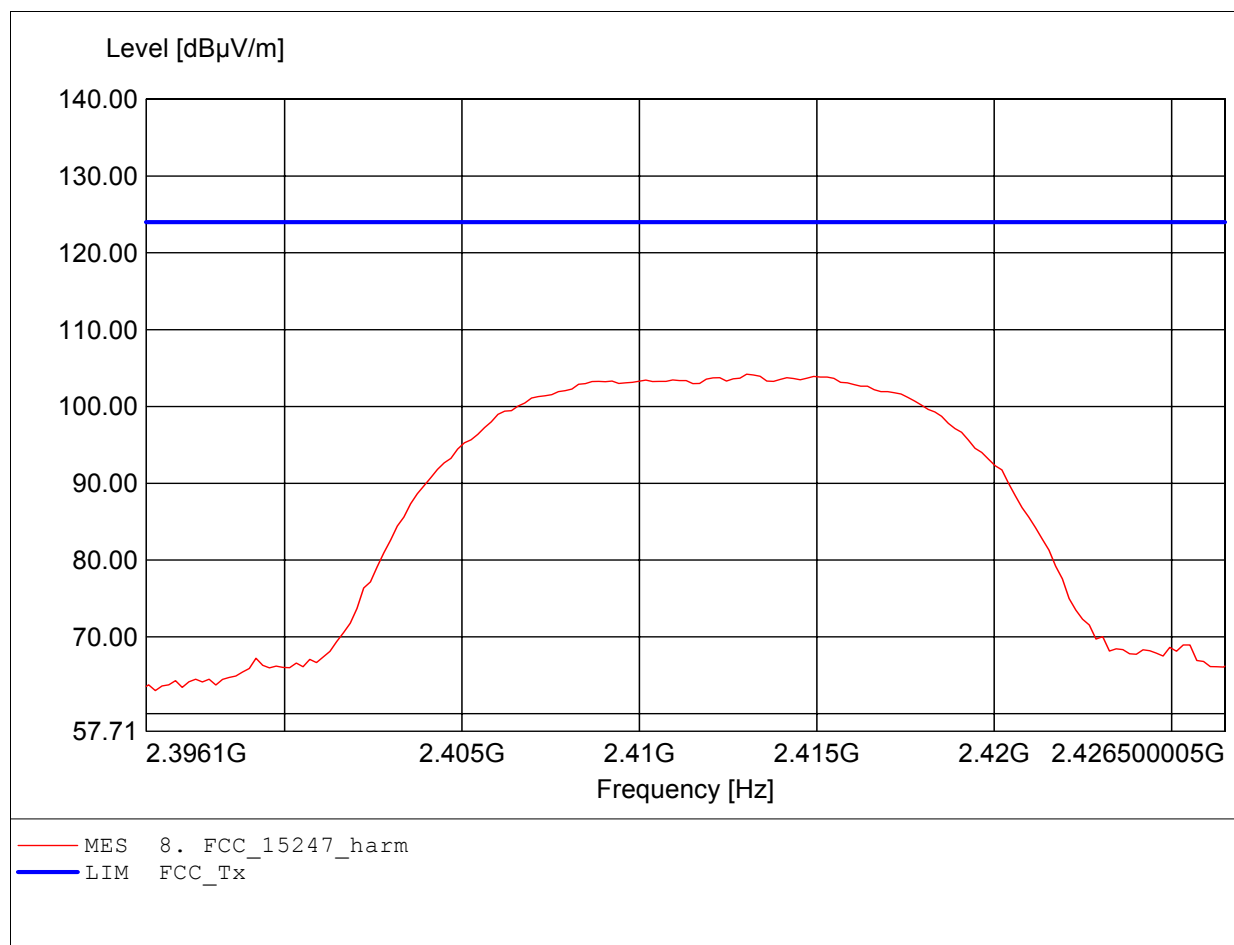
11B MAX OUTPUT POWER CH11

Date: 14.APR.2006 10:15:13

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

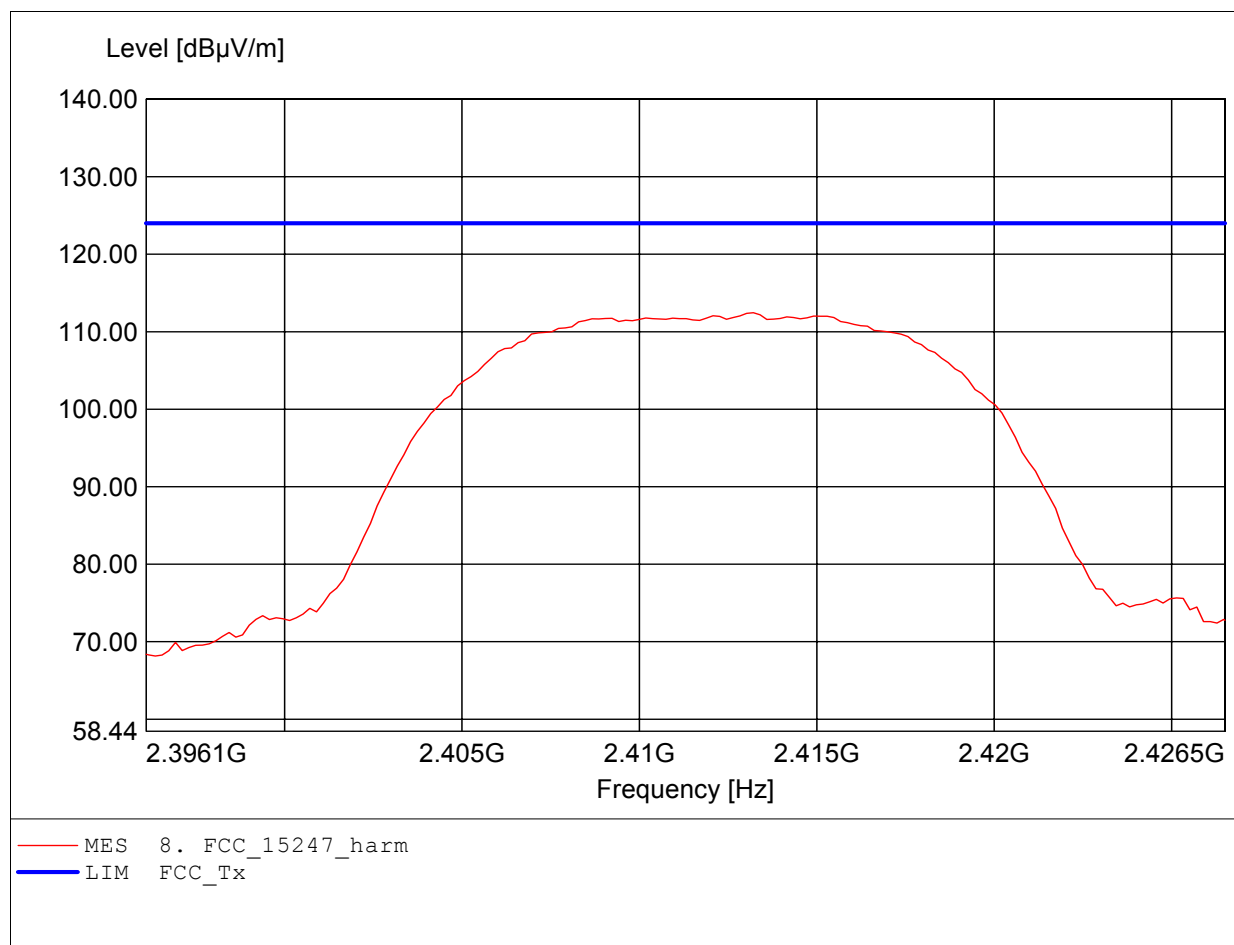
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.413GHz, Emax: 104.19dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

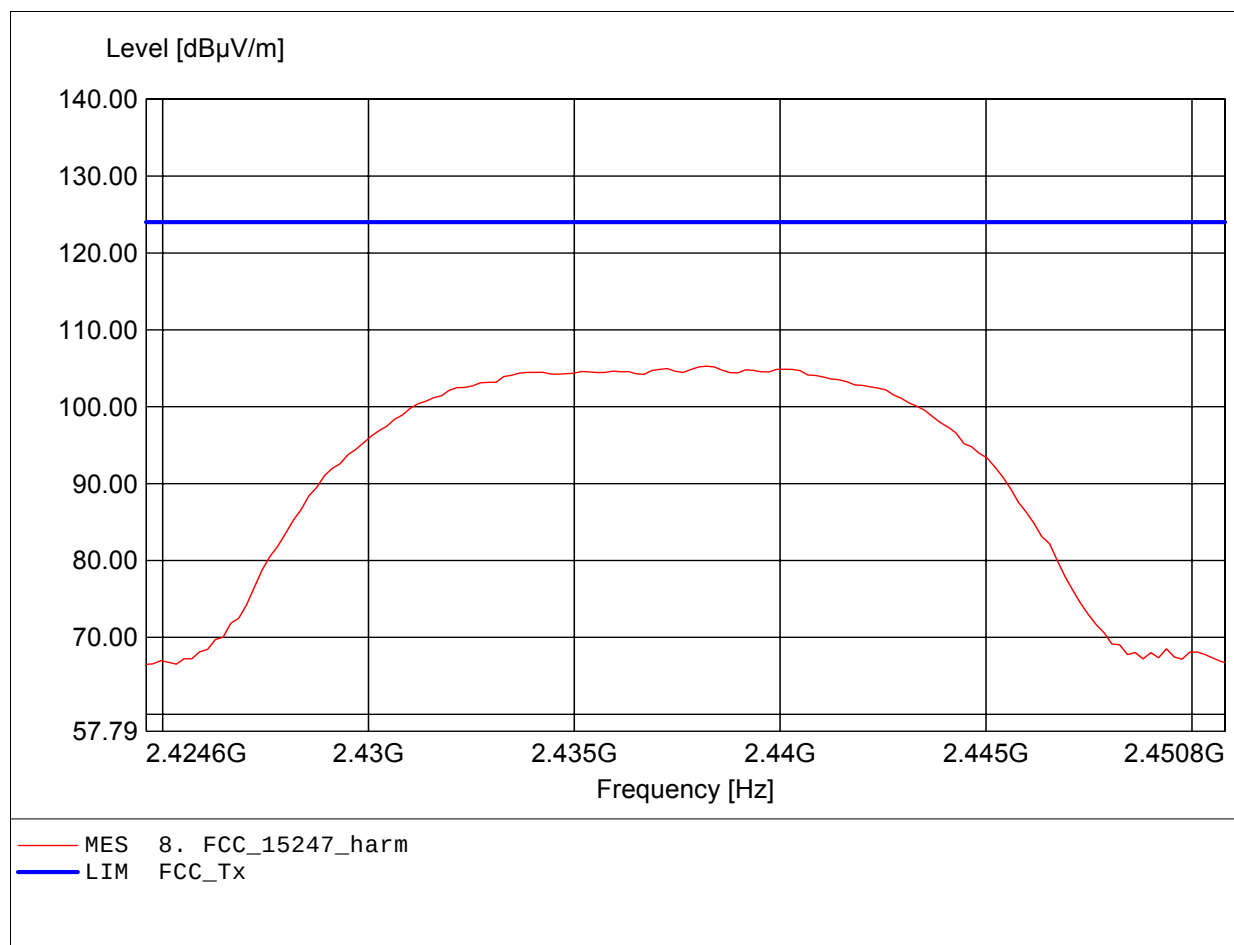
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MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.413GHz, Emax: 112.45dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

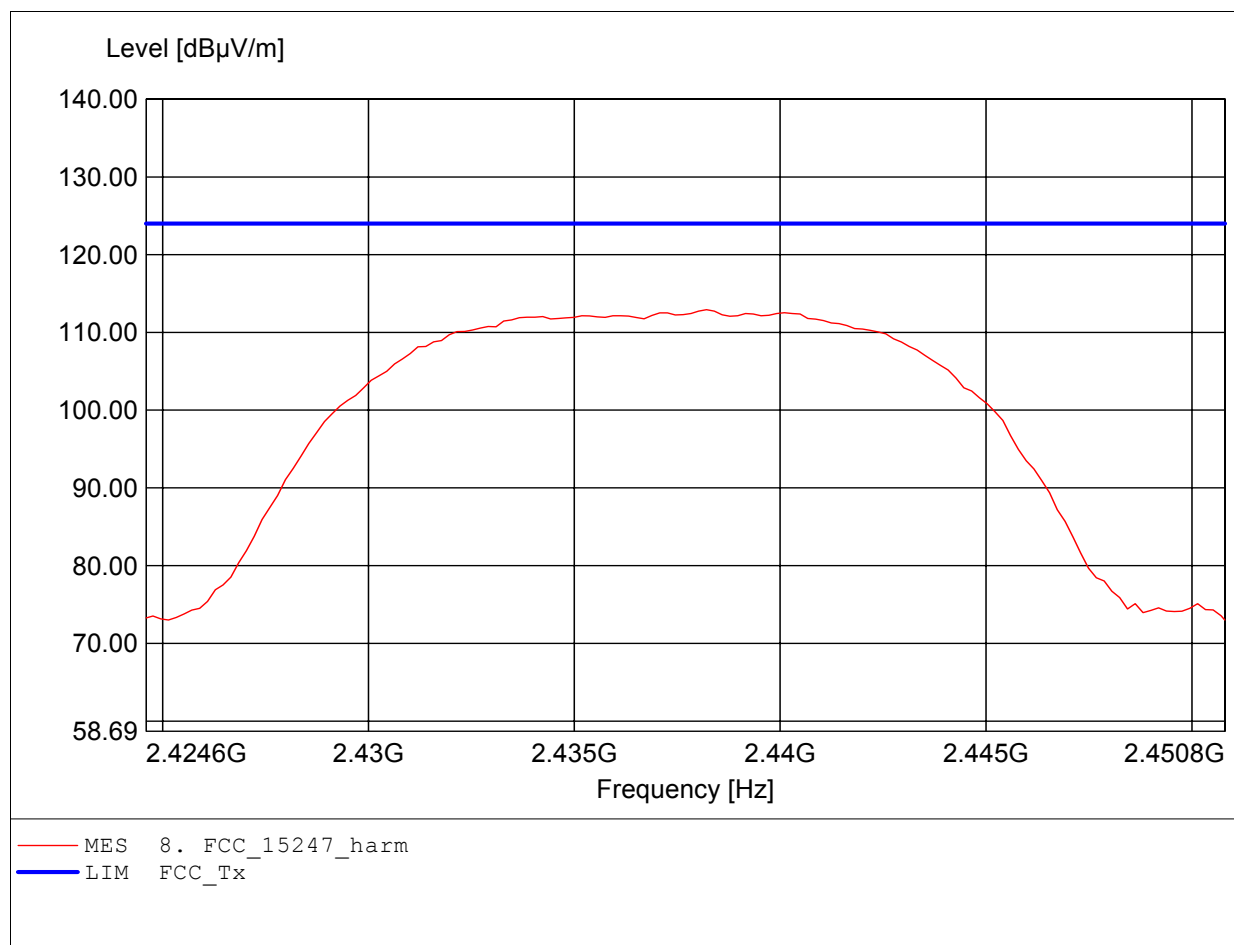
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.438GHz, Emax: 105.28dBμV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

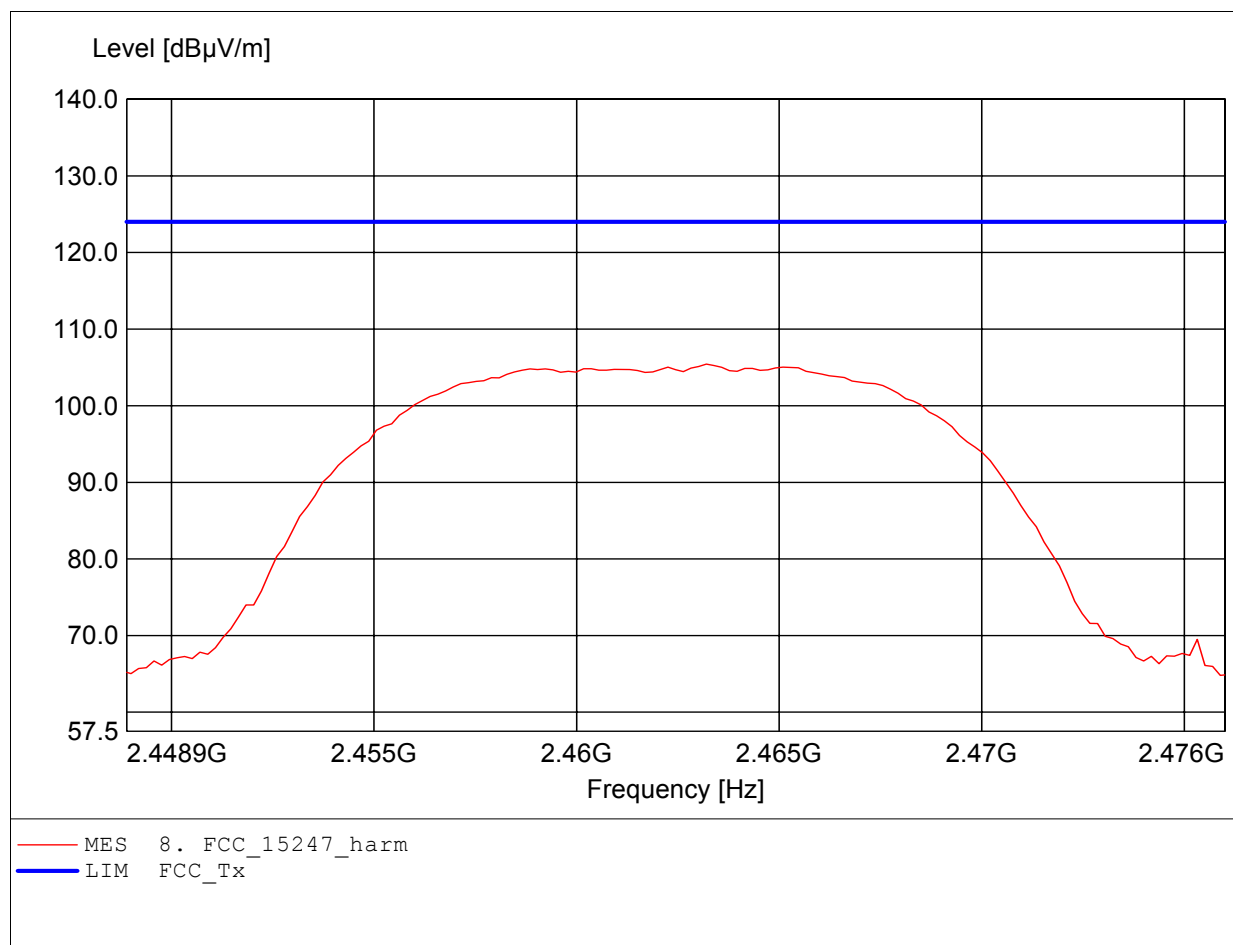
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.438GHz, Emax: 112.92dBµV/m, RBW: 1MHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

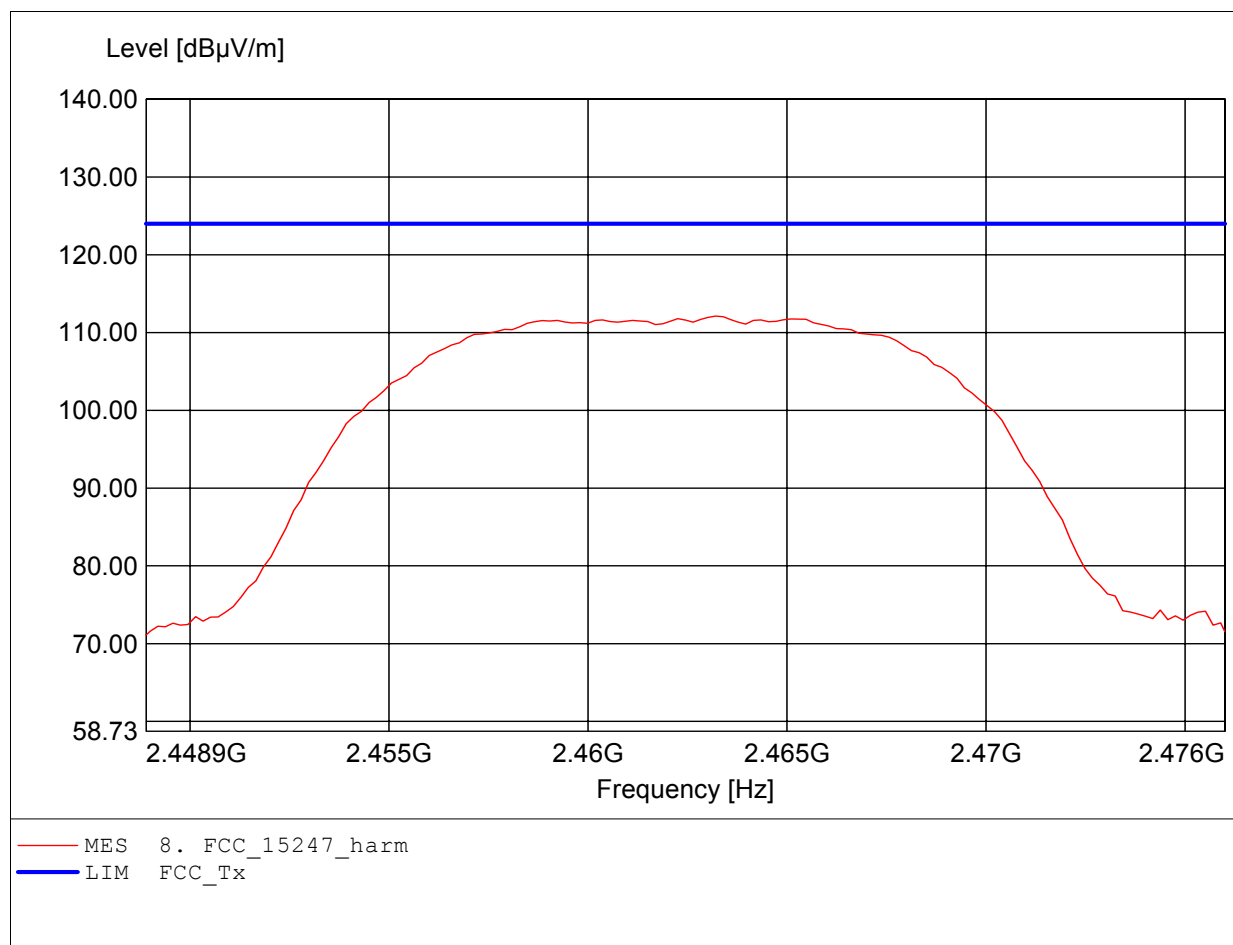
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.463GHz, Emax: 105.42dBμV/m, RBW: 1MHz

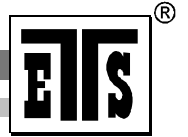


Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL025
Freq: 2.463GHz, Emax: 112.12dBµV/m, RBW: 1MHz





Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix B

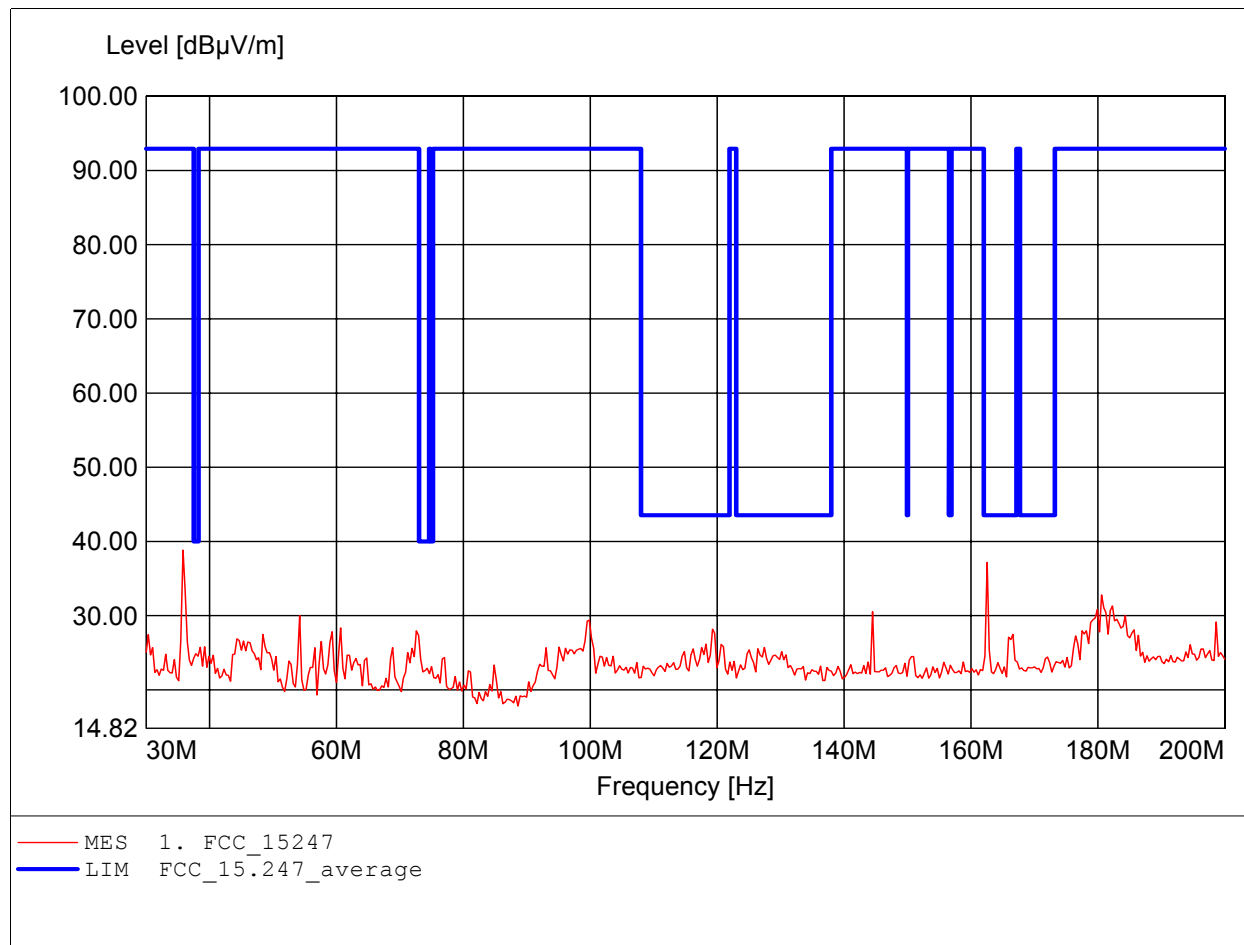
Spurious Emissions radiated – Transmitter operating

The measurement diagrams are wideband pre-scan results; only for reference. The final results are measured at OATS of 3 m. Please see final results as page 18 to 20.

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

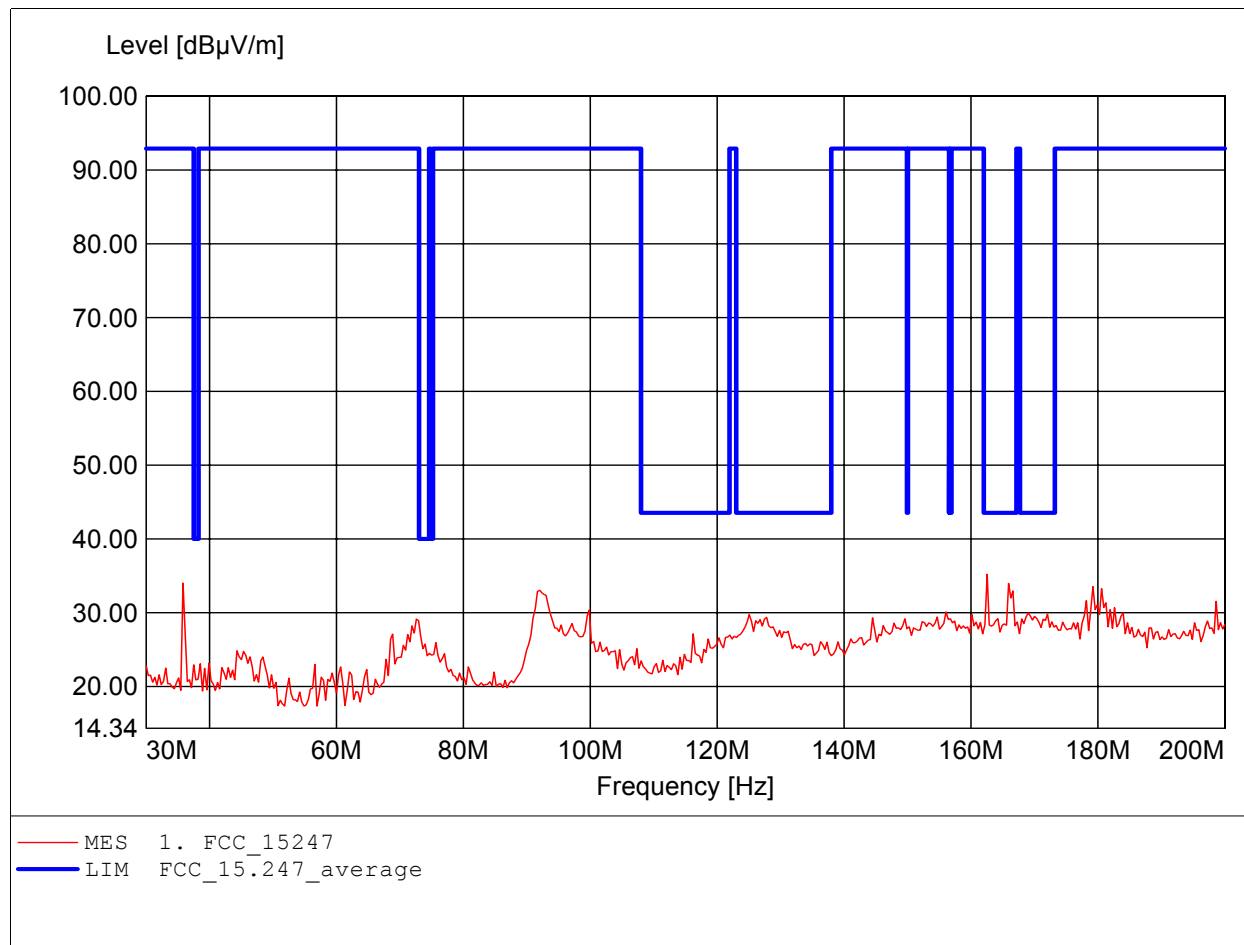
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 35.792MHz, Emax: 38.83dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

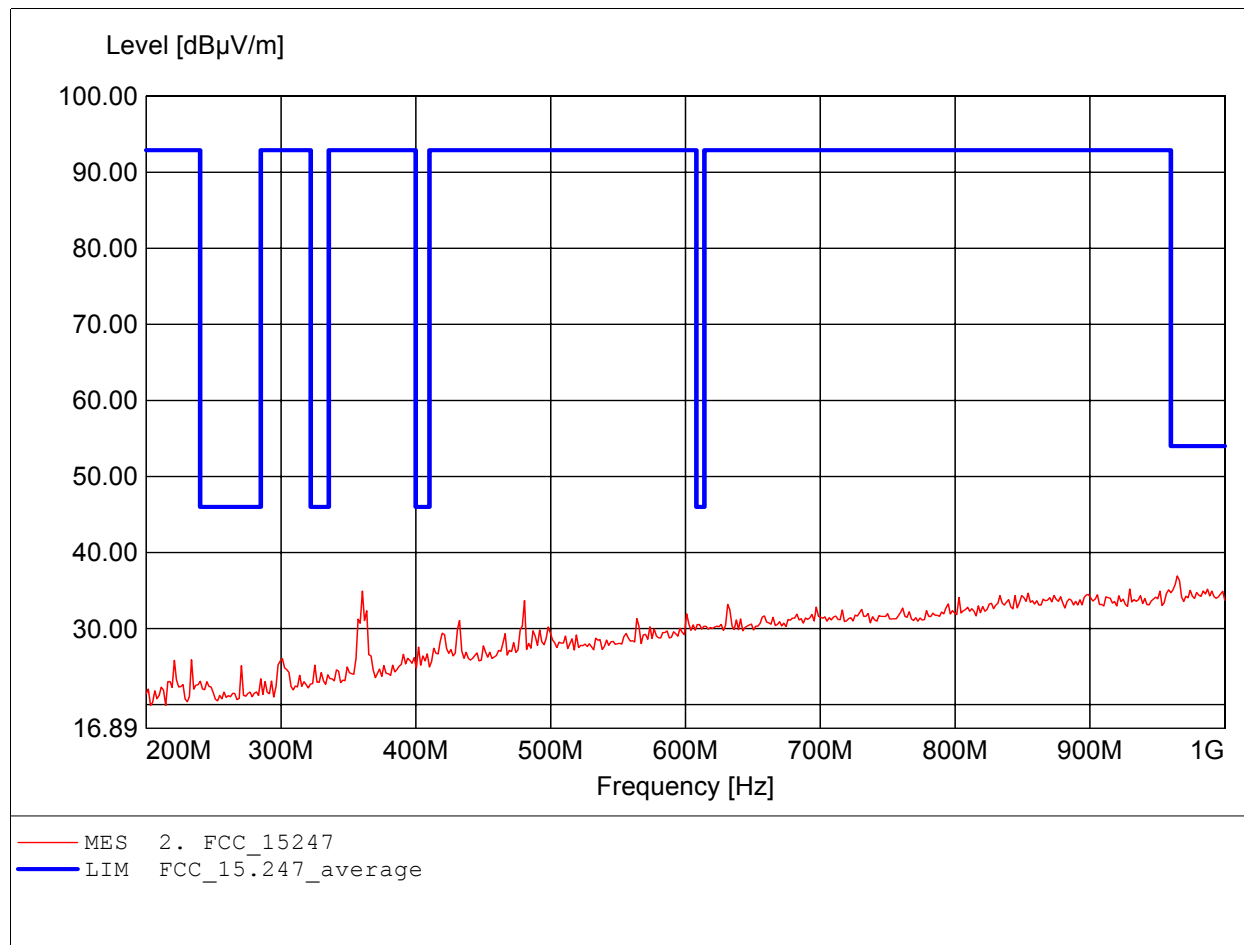
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 162.525MHz, Emax: 35.21dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

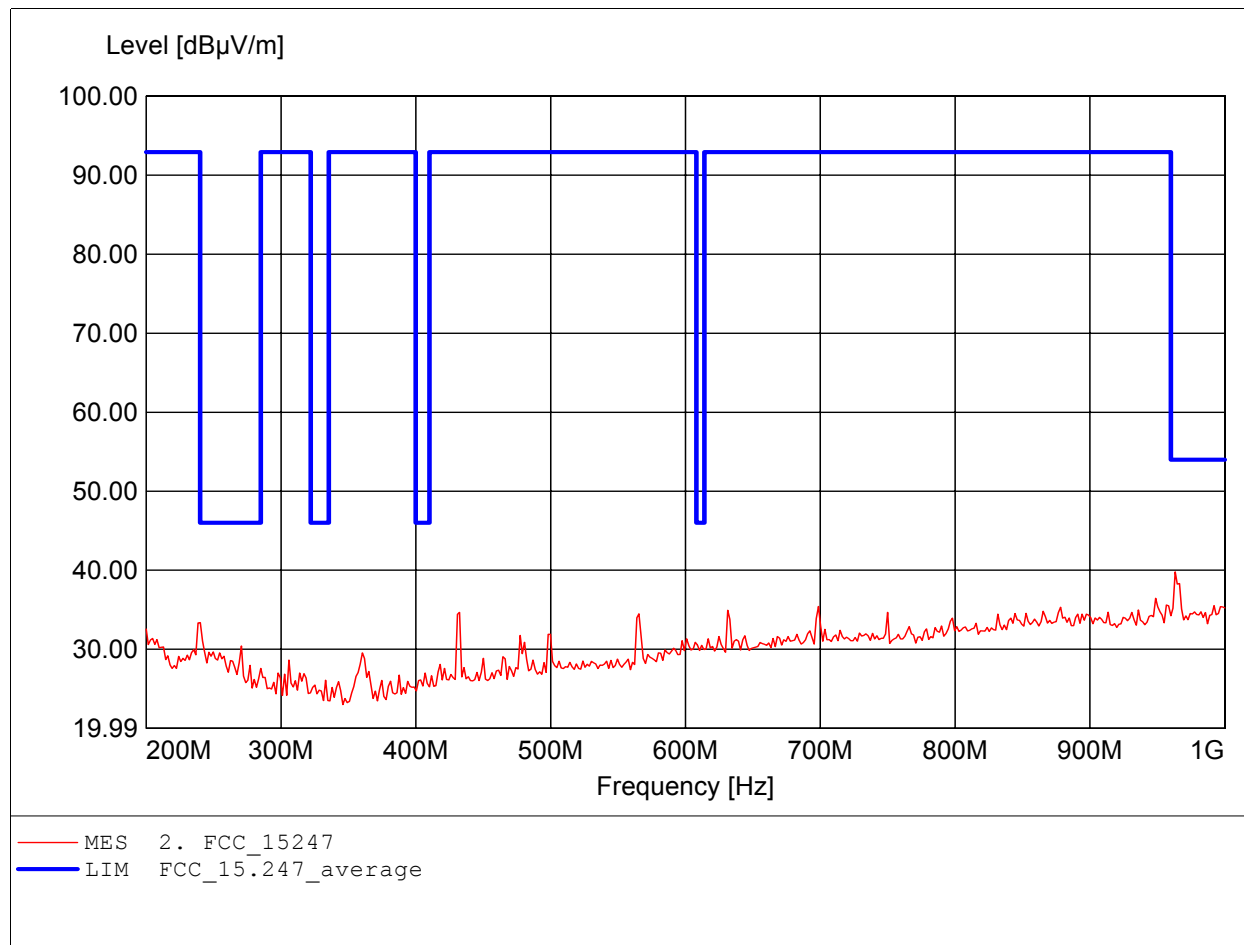
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 964.729MHz, Emax: 36.92dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

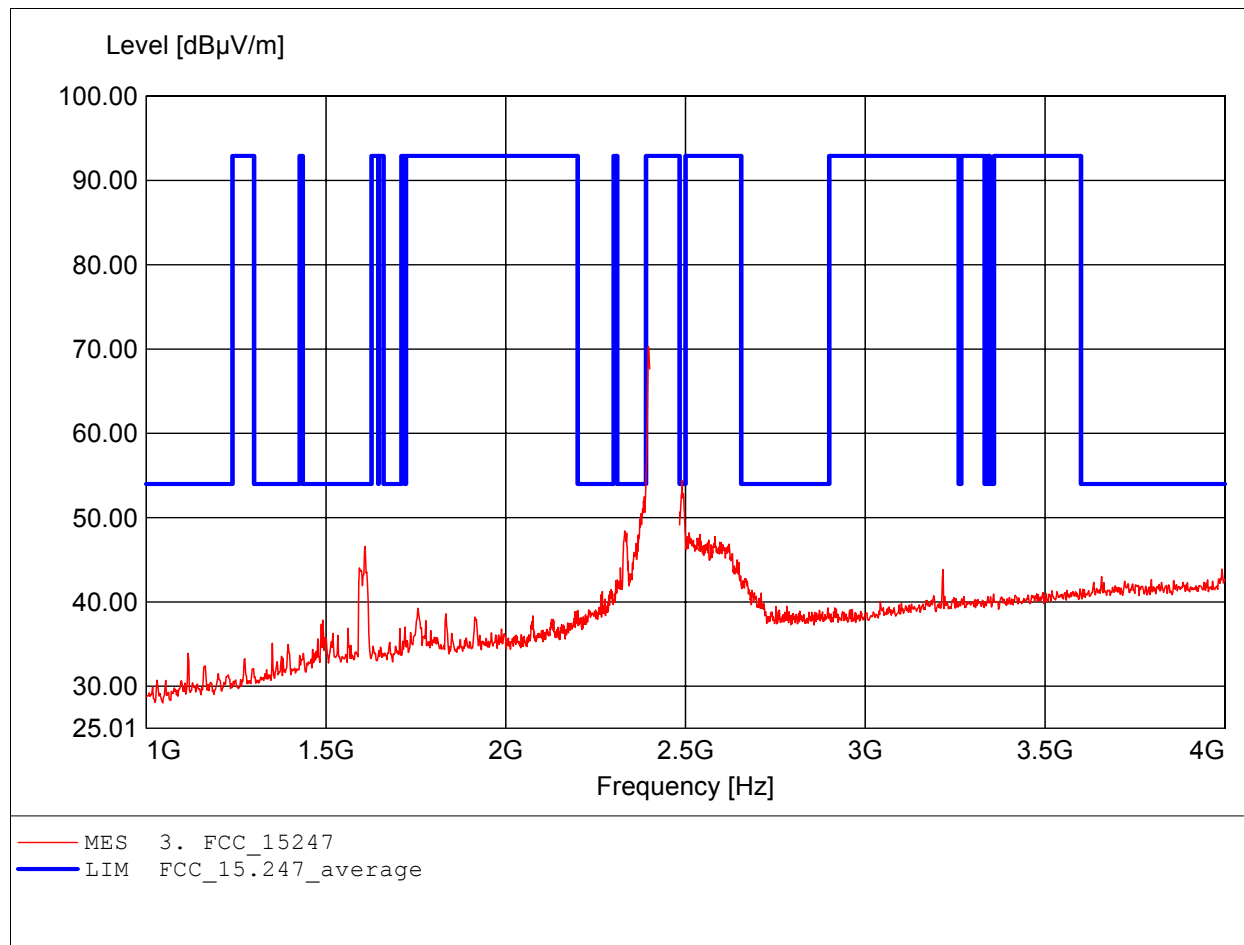
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 963.126MHz, Emax: 39.79dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

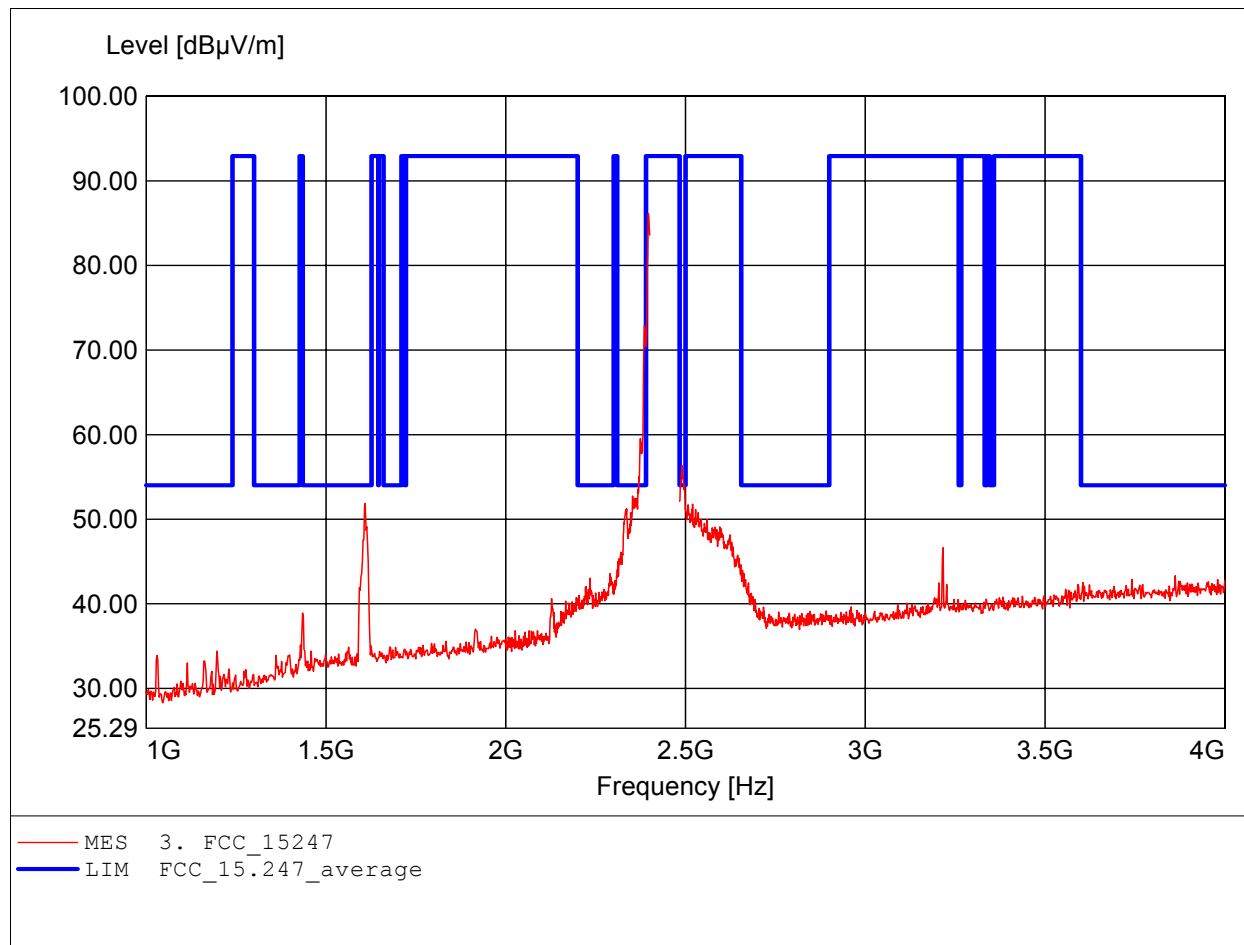
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.397GHz, Emax: 70.30dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

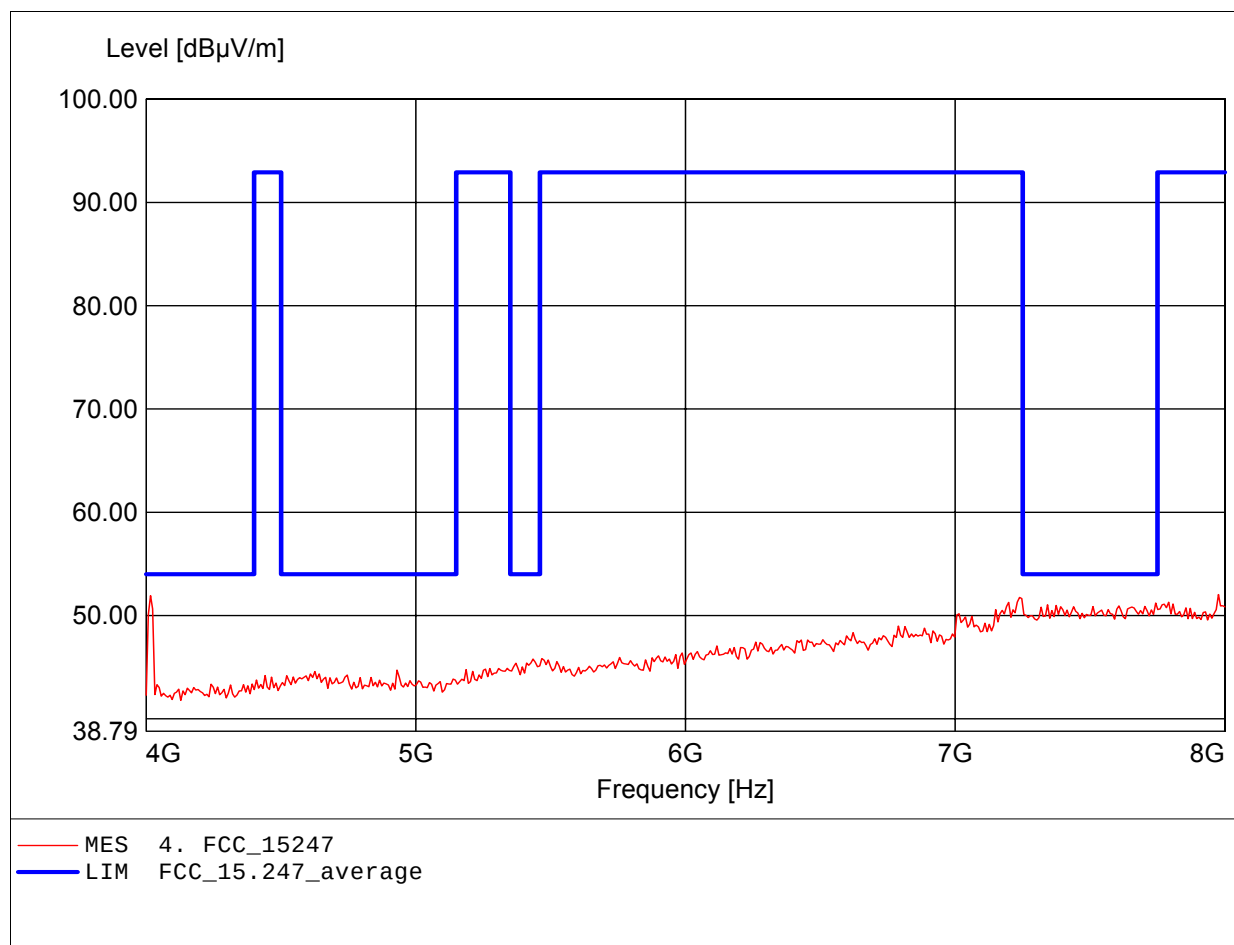
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.397GHz, Emax: 86.12dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

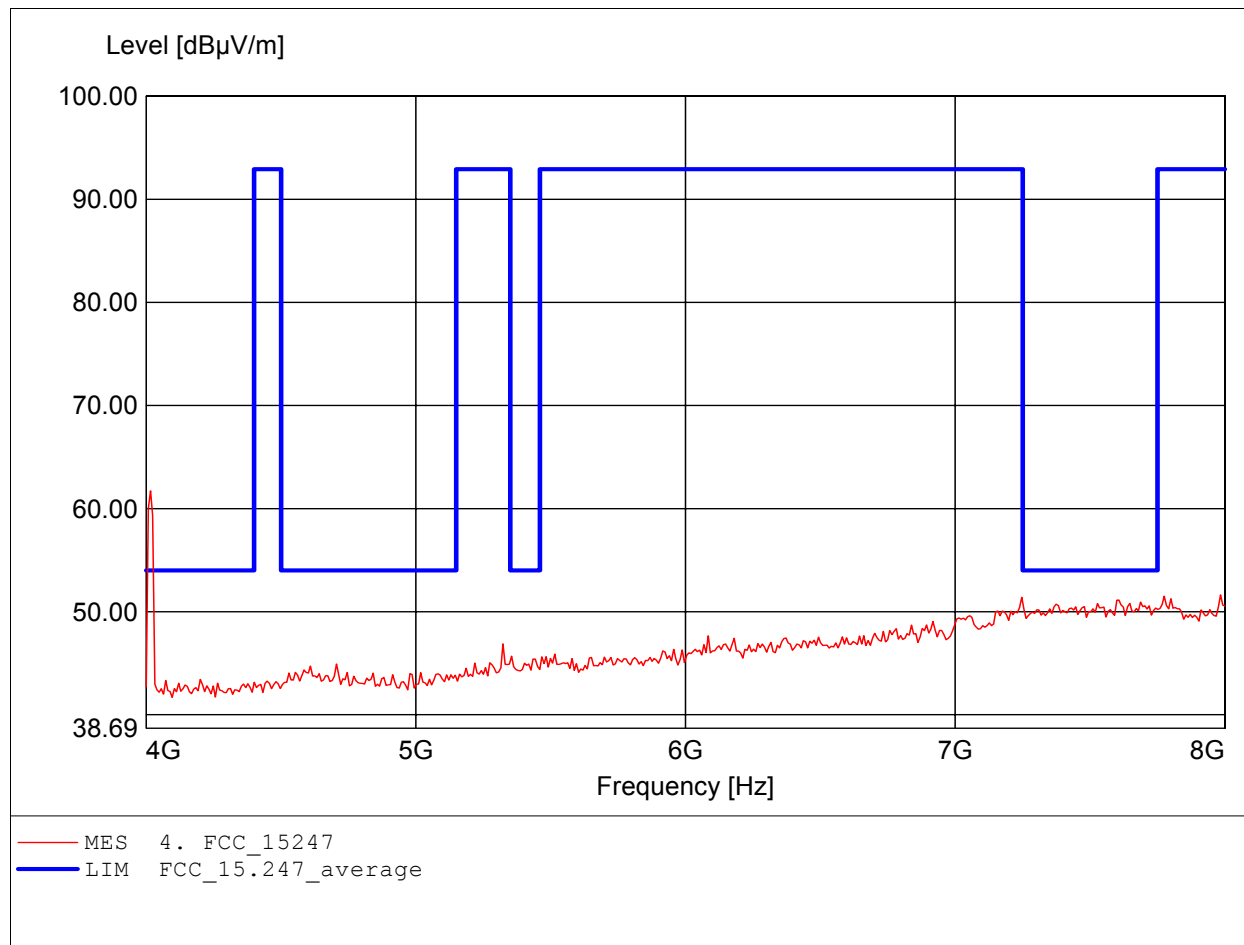
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.976GHz, Emax: 52.03dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

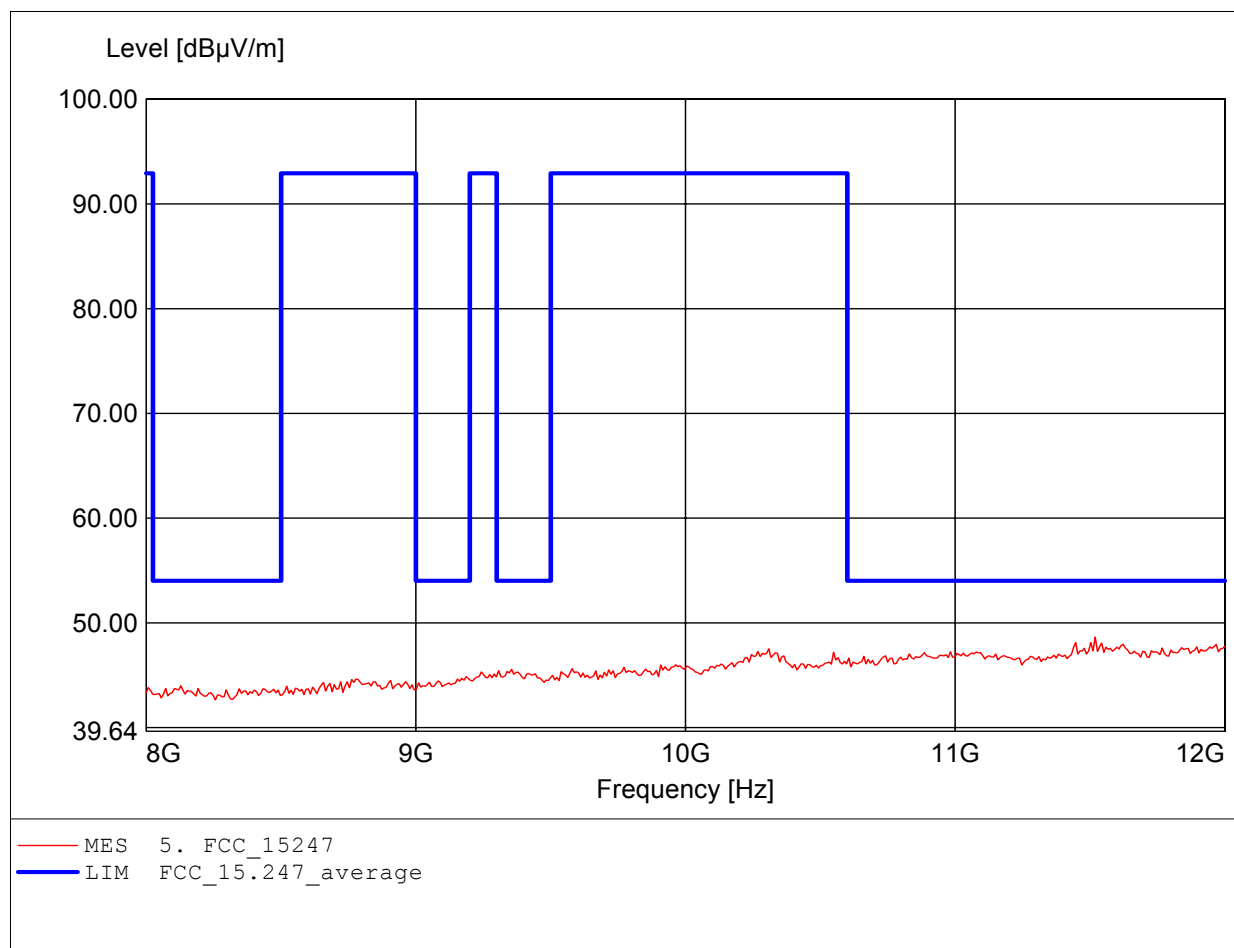
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 4.016GHz, Emax: 61.72dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

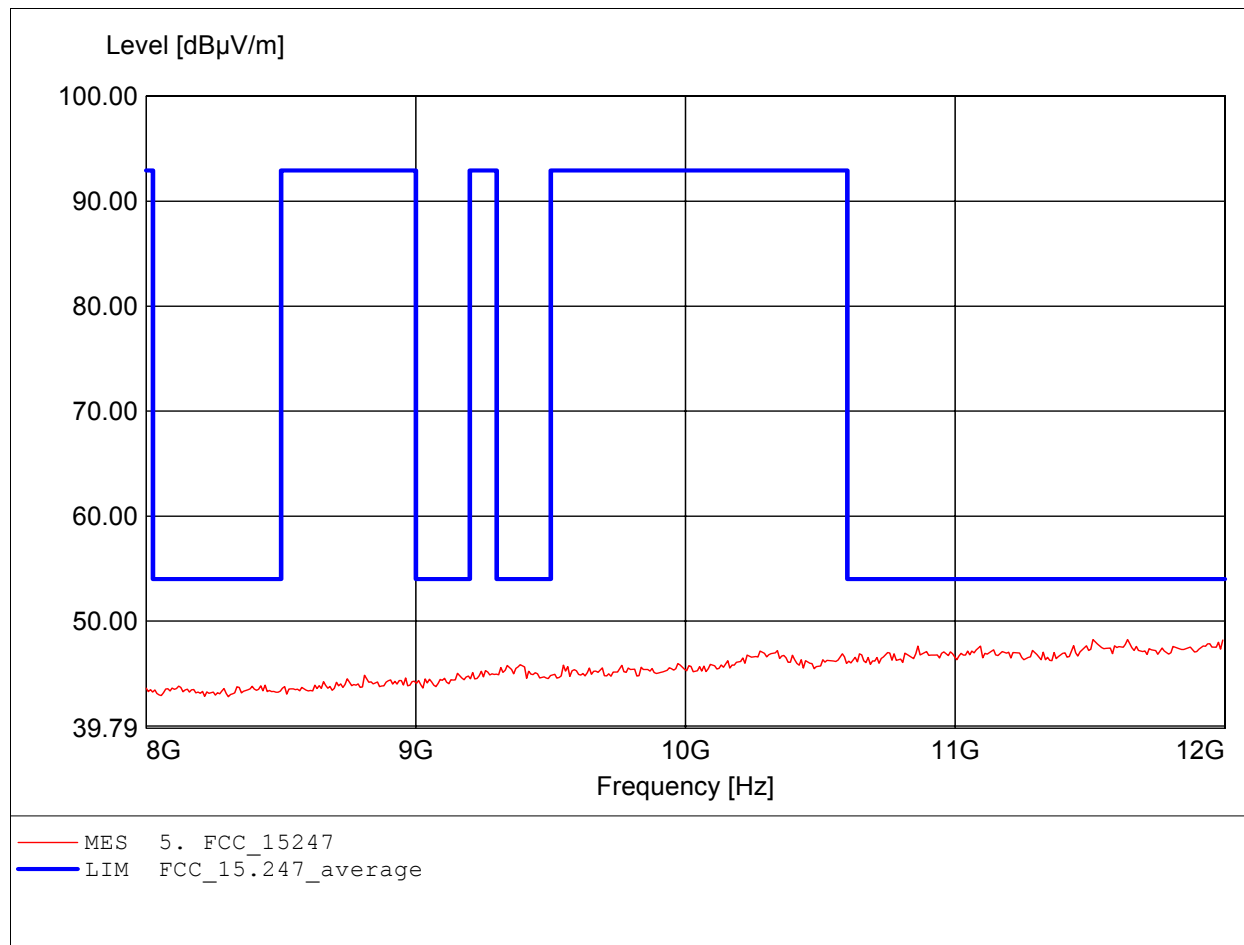
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.519GHz, Emax: 48.63dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

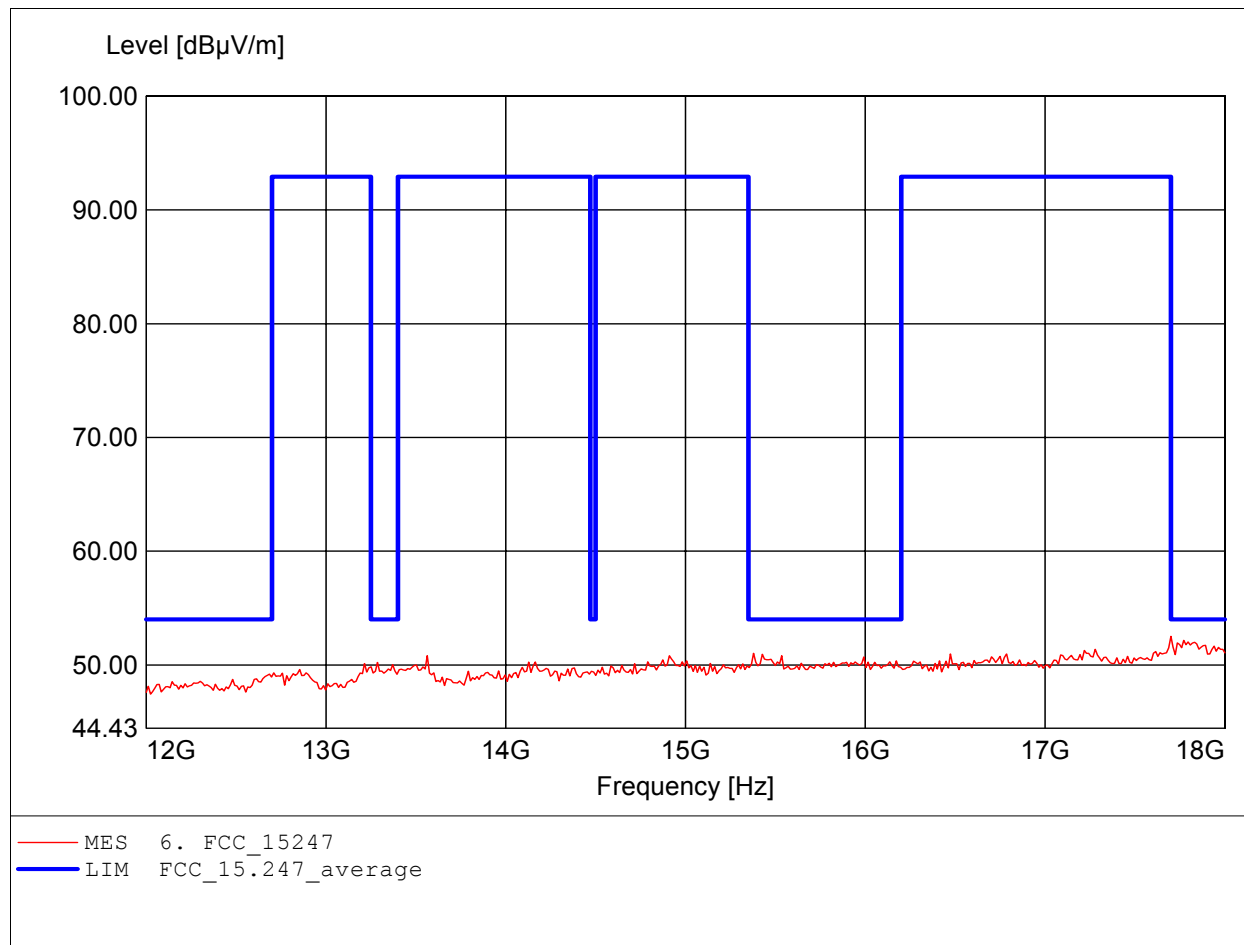
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.511GHz, Emax: 48.25dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

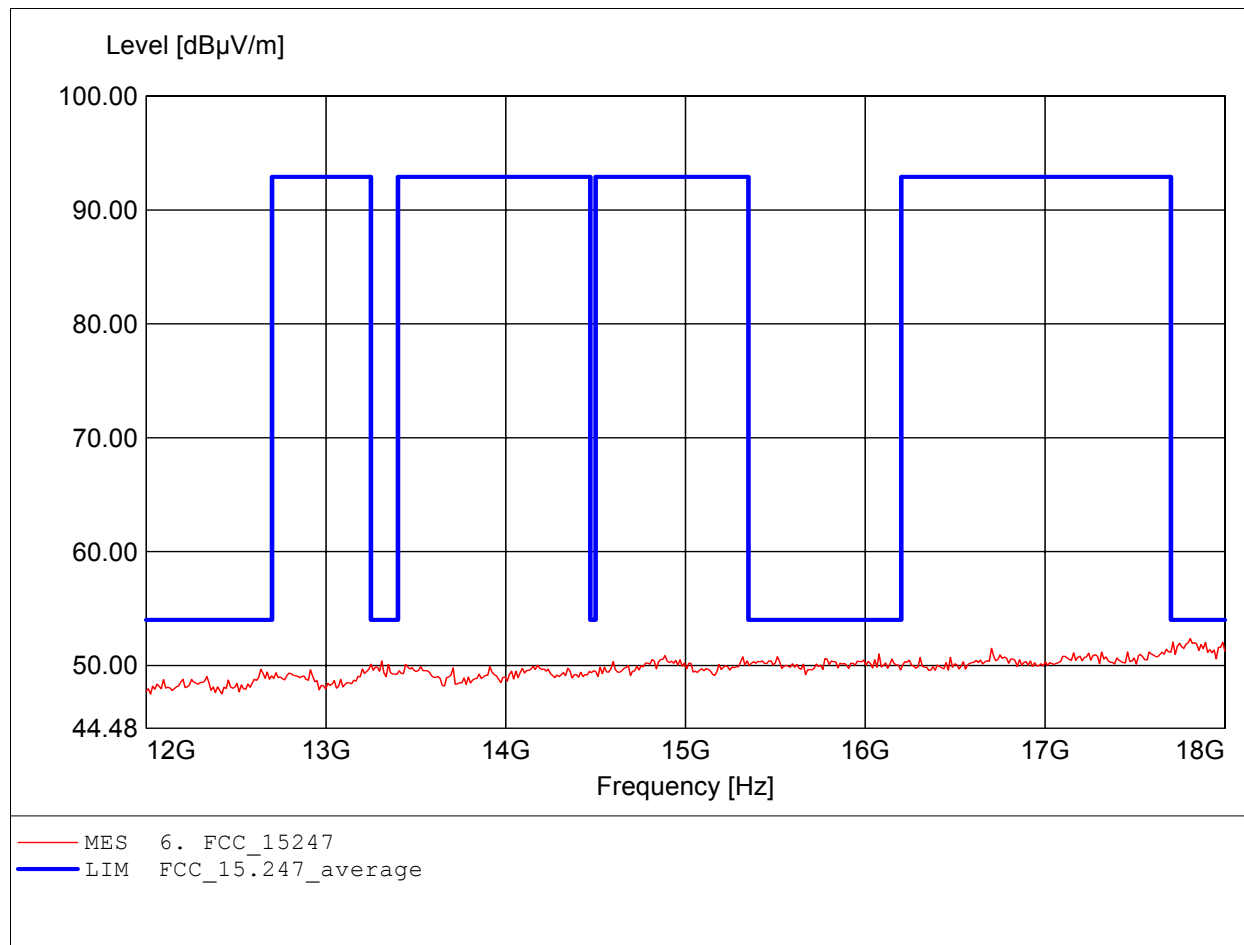
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.699GHz, Emax: 52.50dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

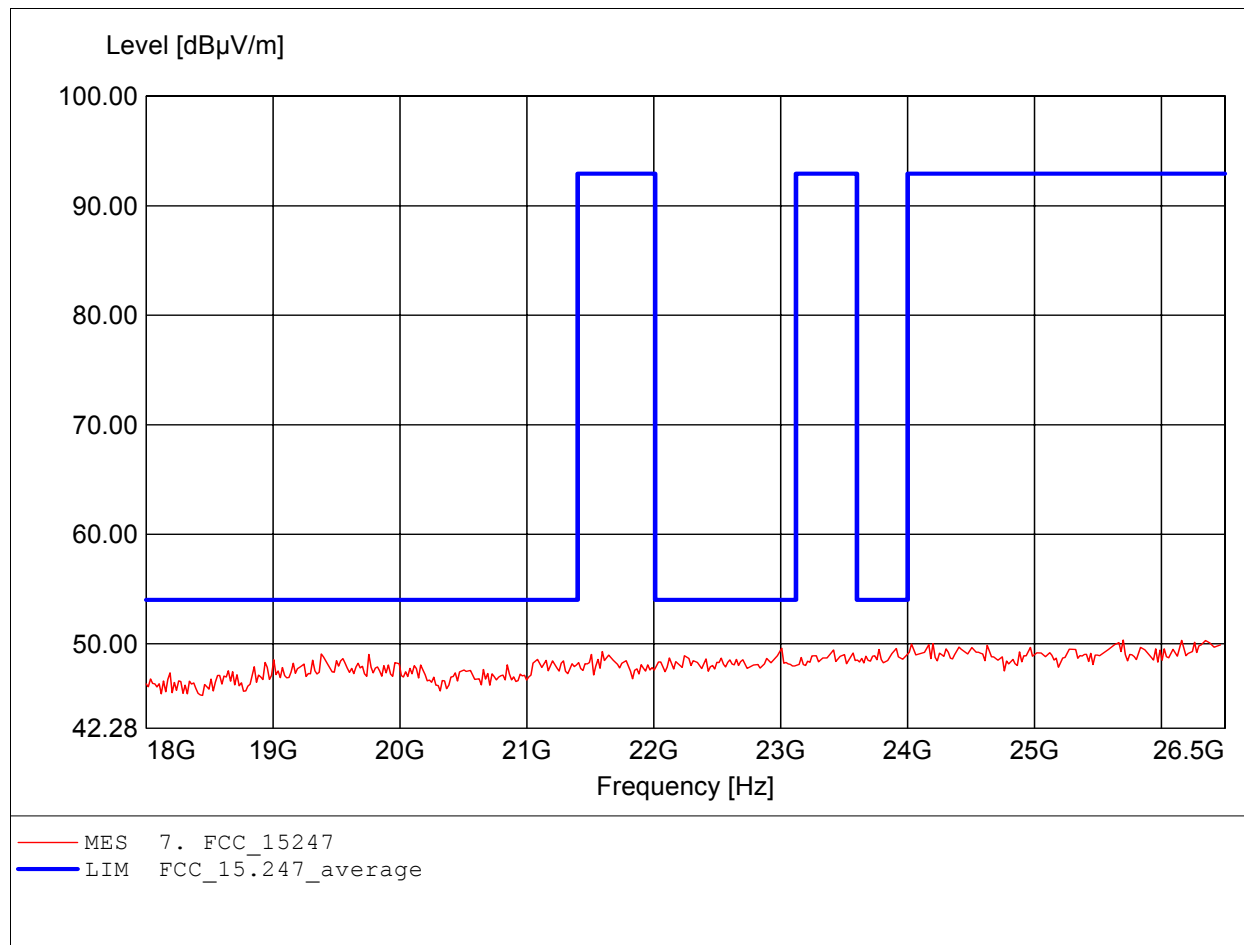
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.808GHz, Emax: 52.35dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

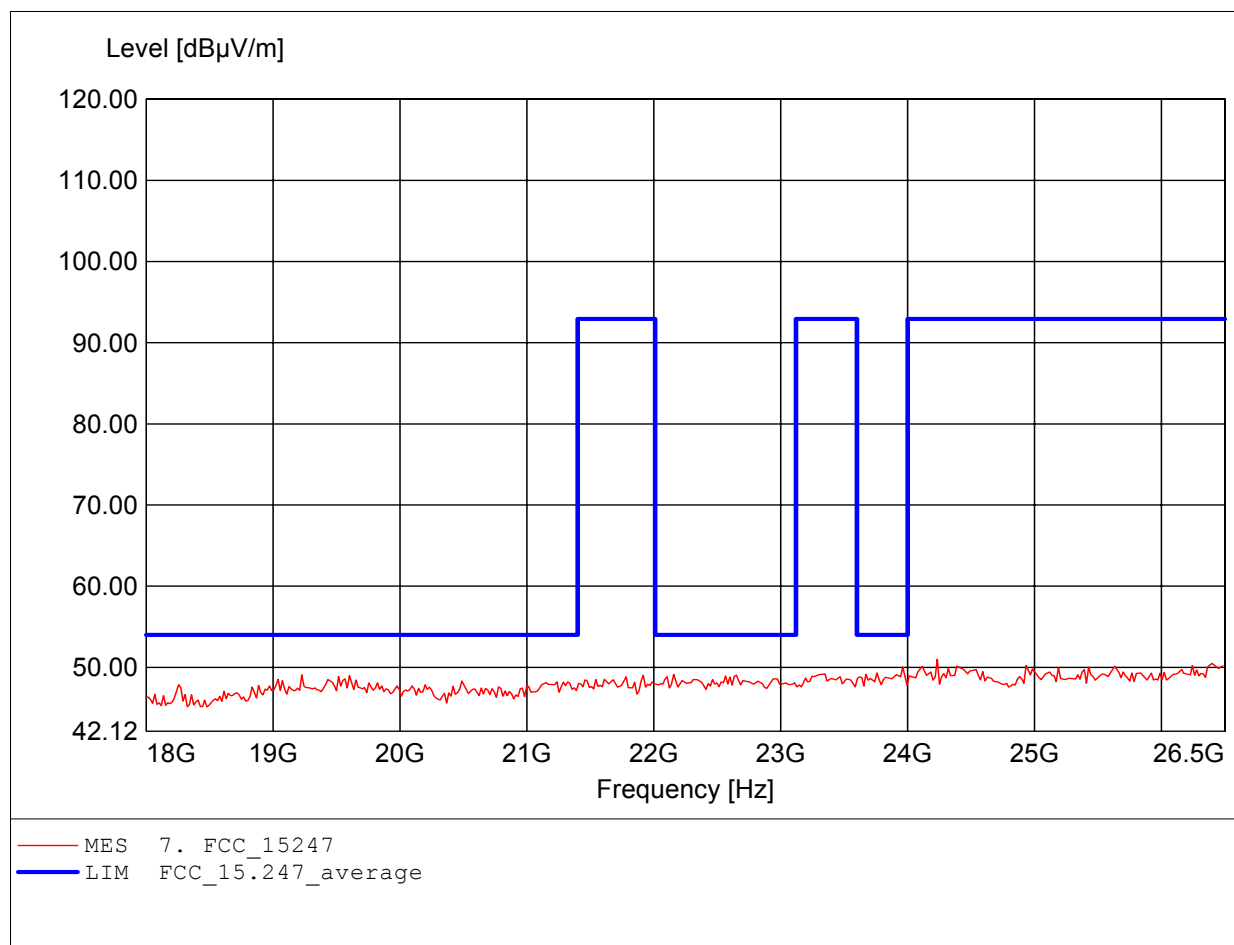
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.699GHz, Emax: 50.34dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

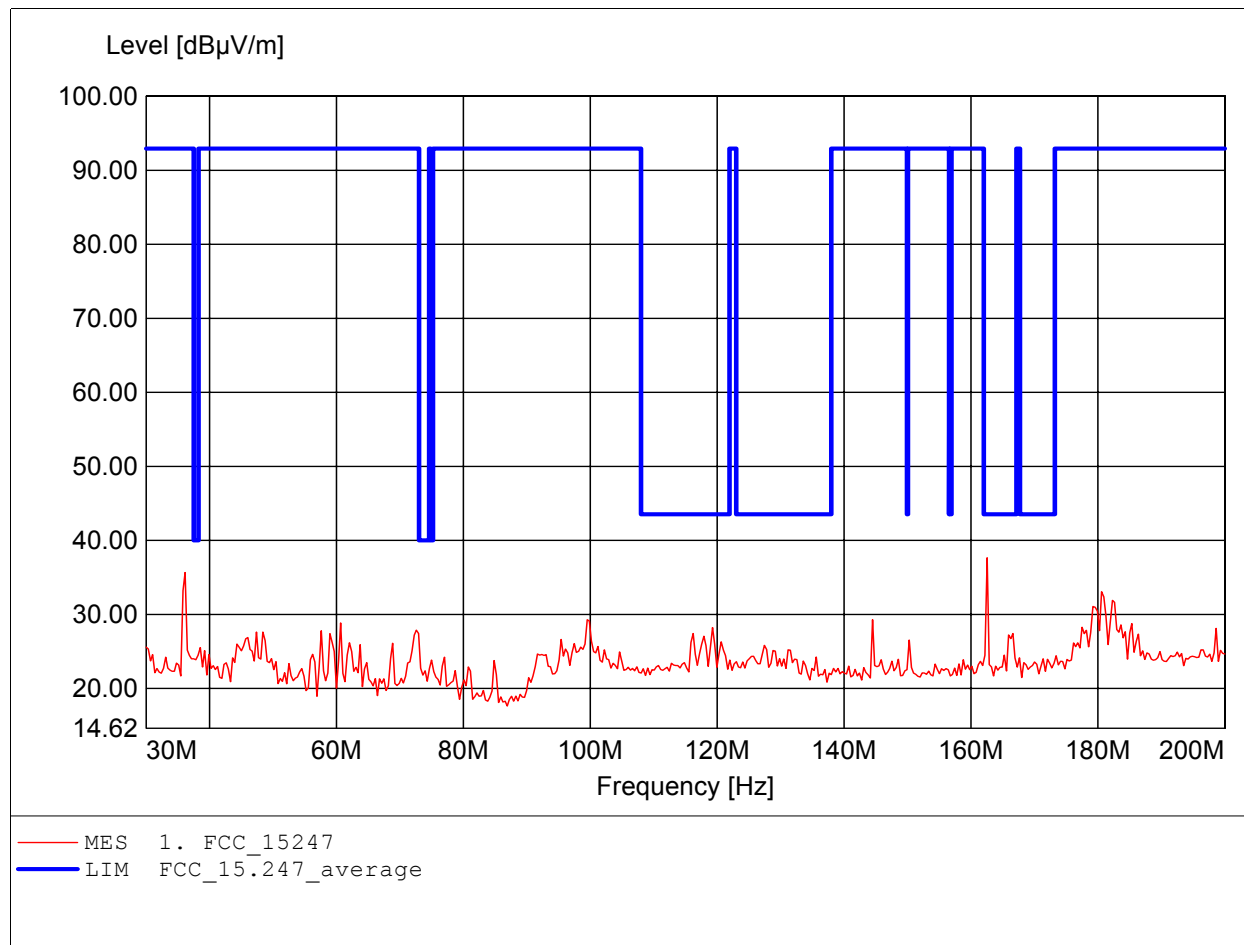
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 24.234GHz, Emax: 51.00dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

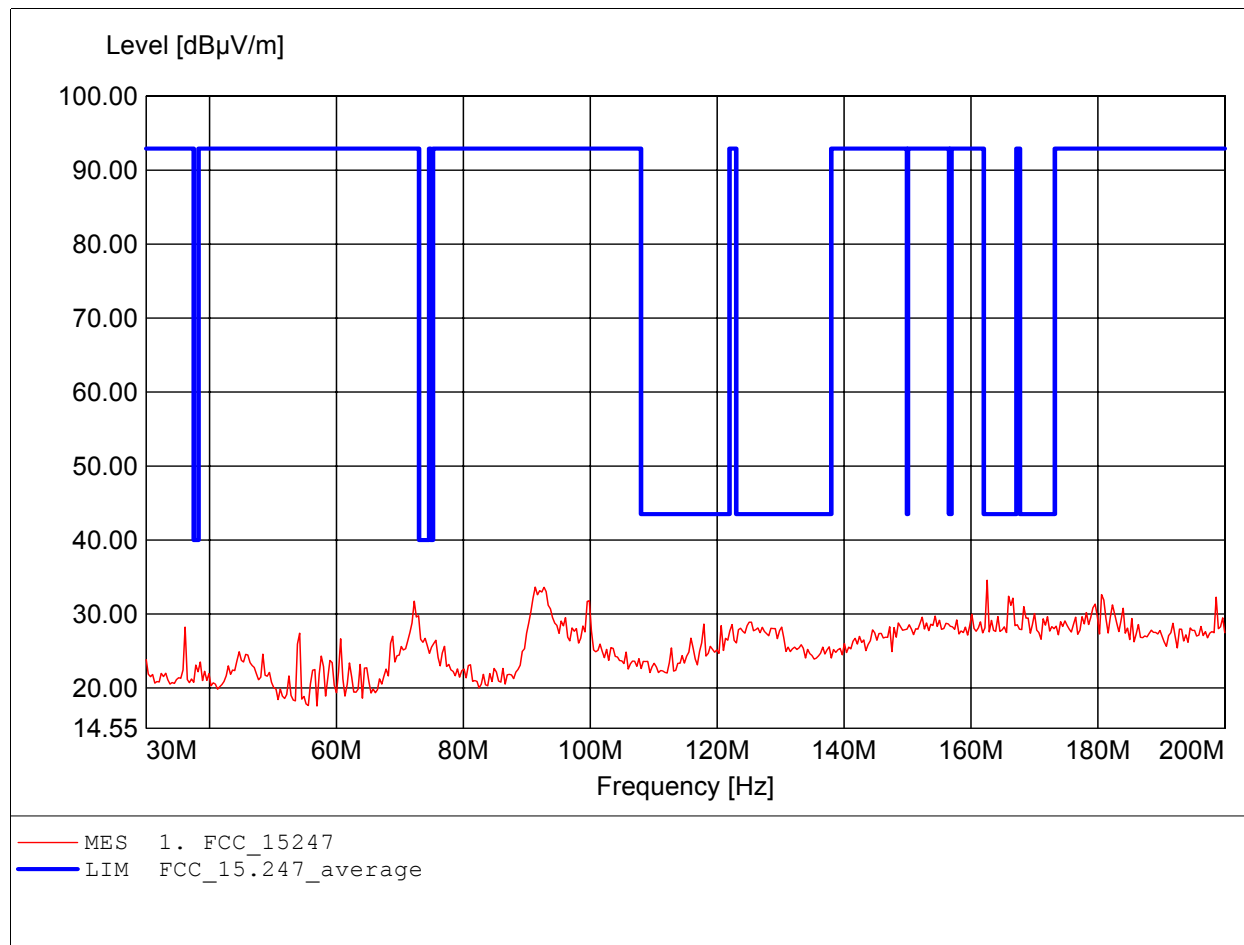
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 162.525MHz, Emax: 37.65dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

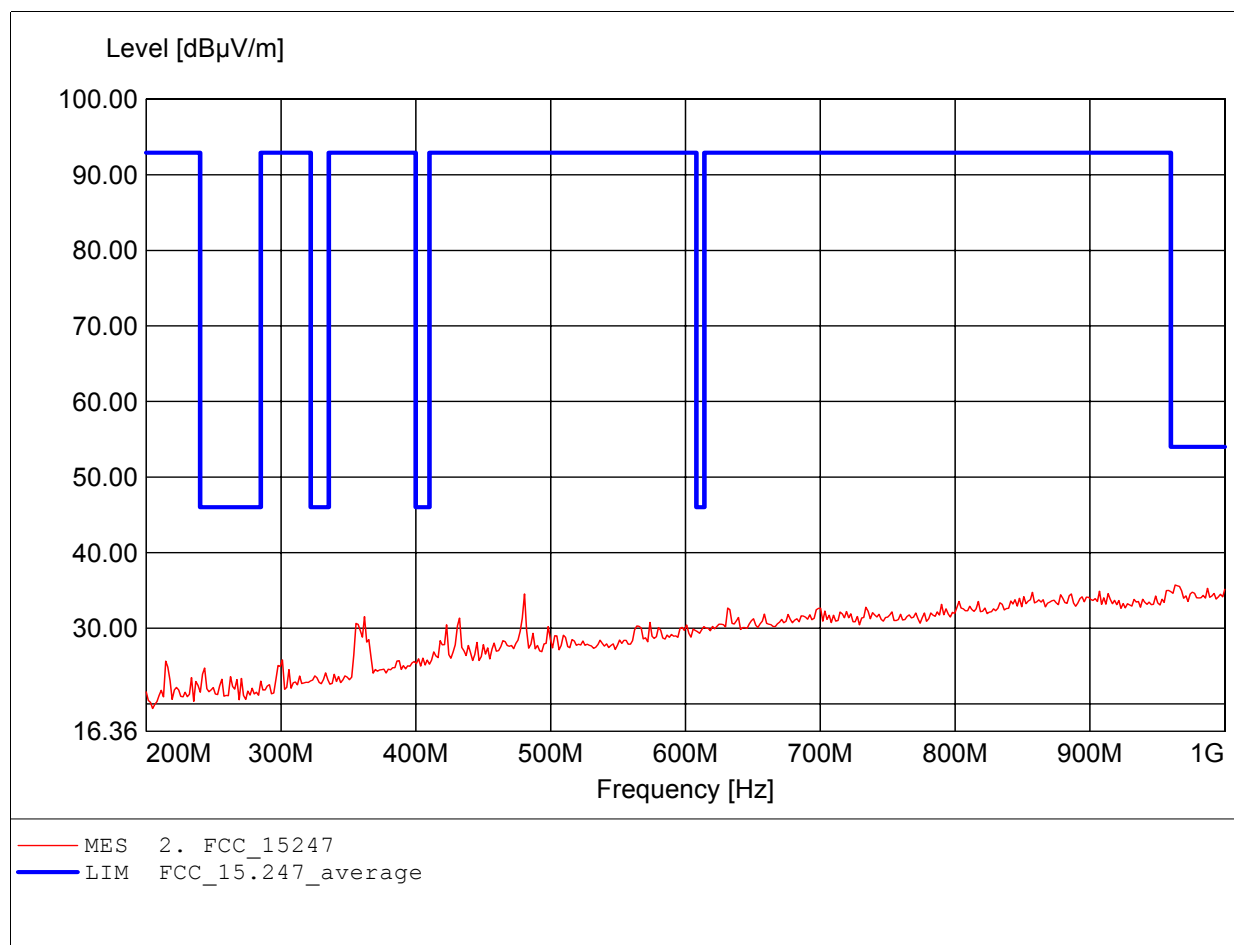
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 162.525MHz, Emax: 34.56dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

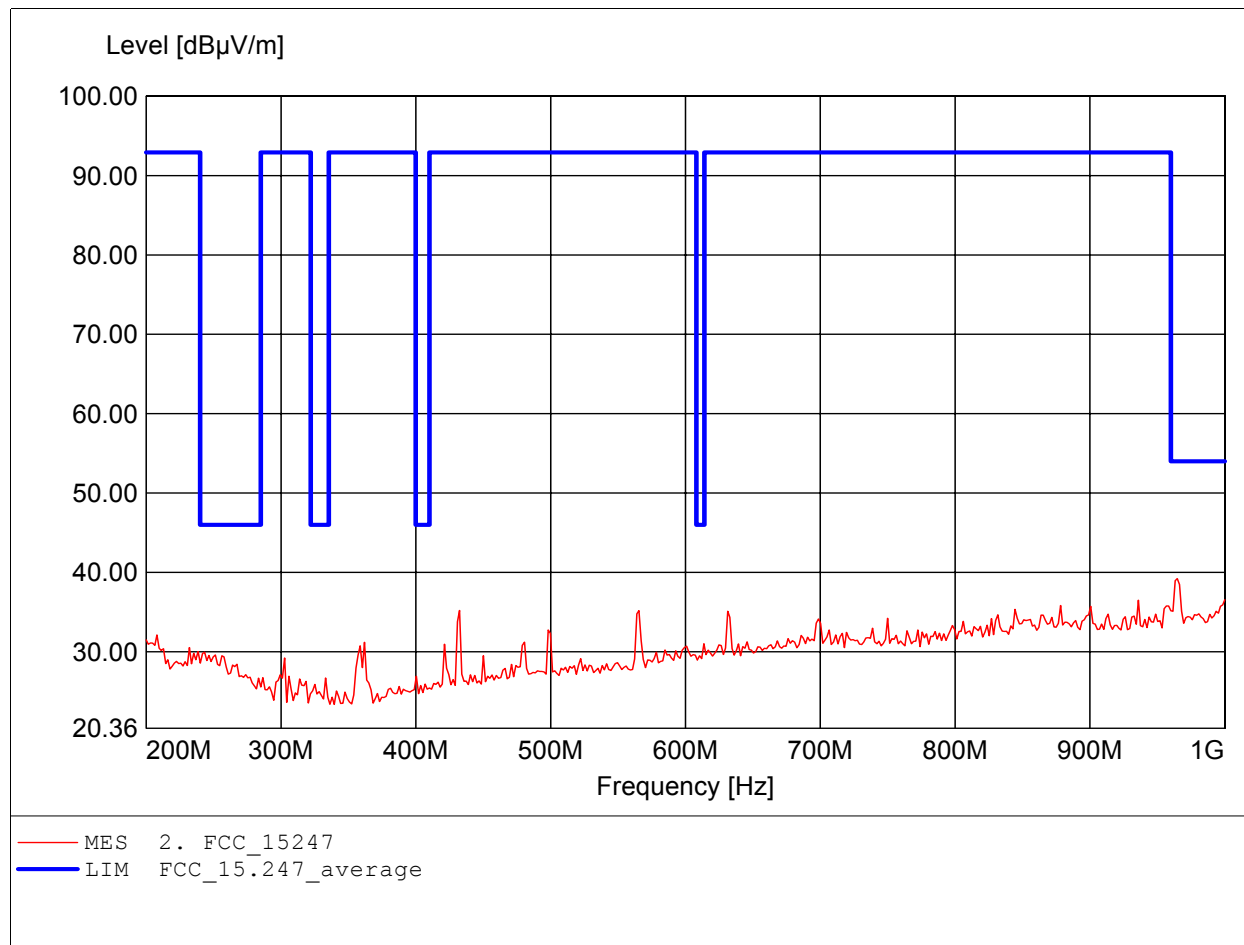
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 963.126MHz, Emax: 35.72dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

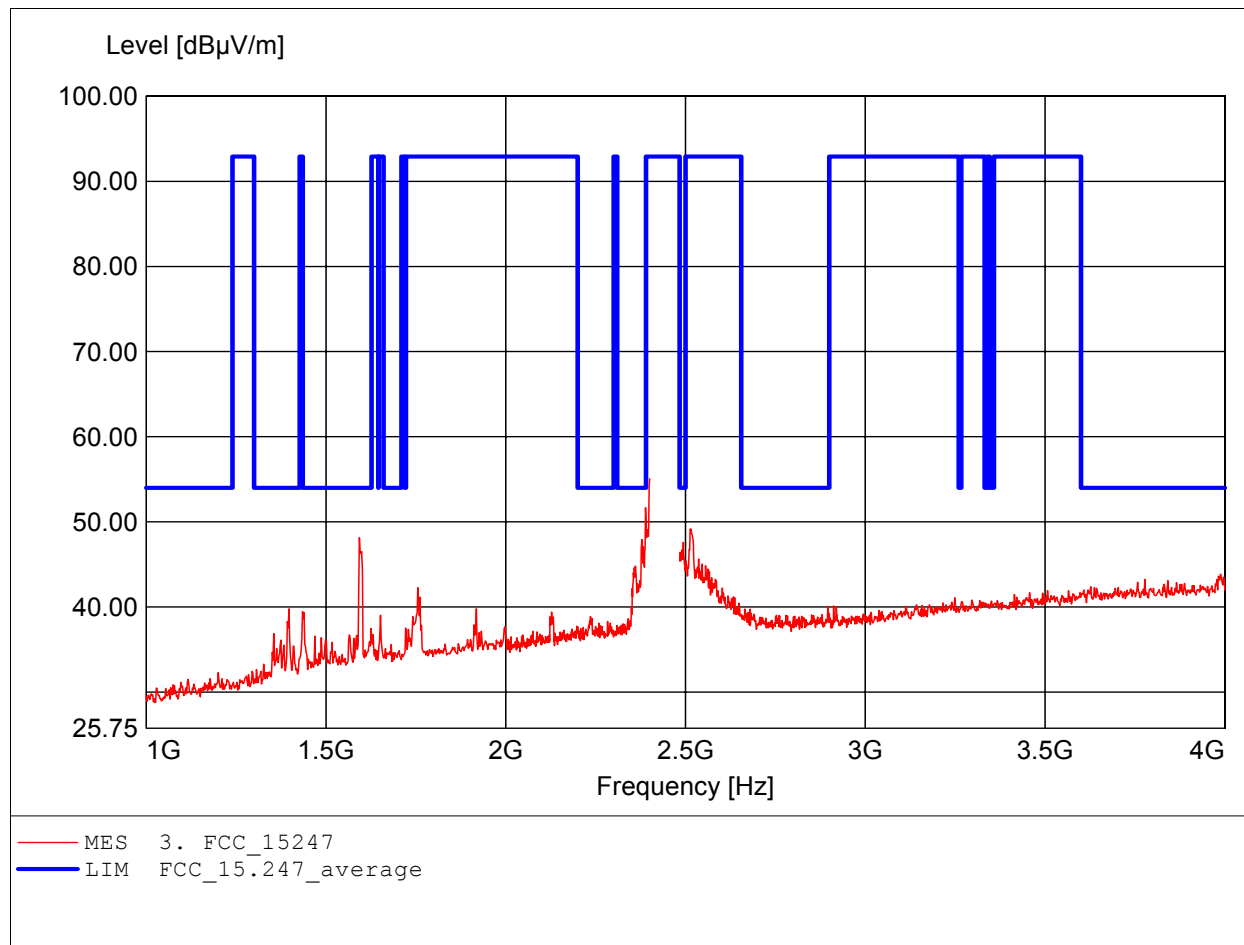
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 964.729MHz, Emax: 39.22dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

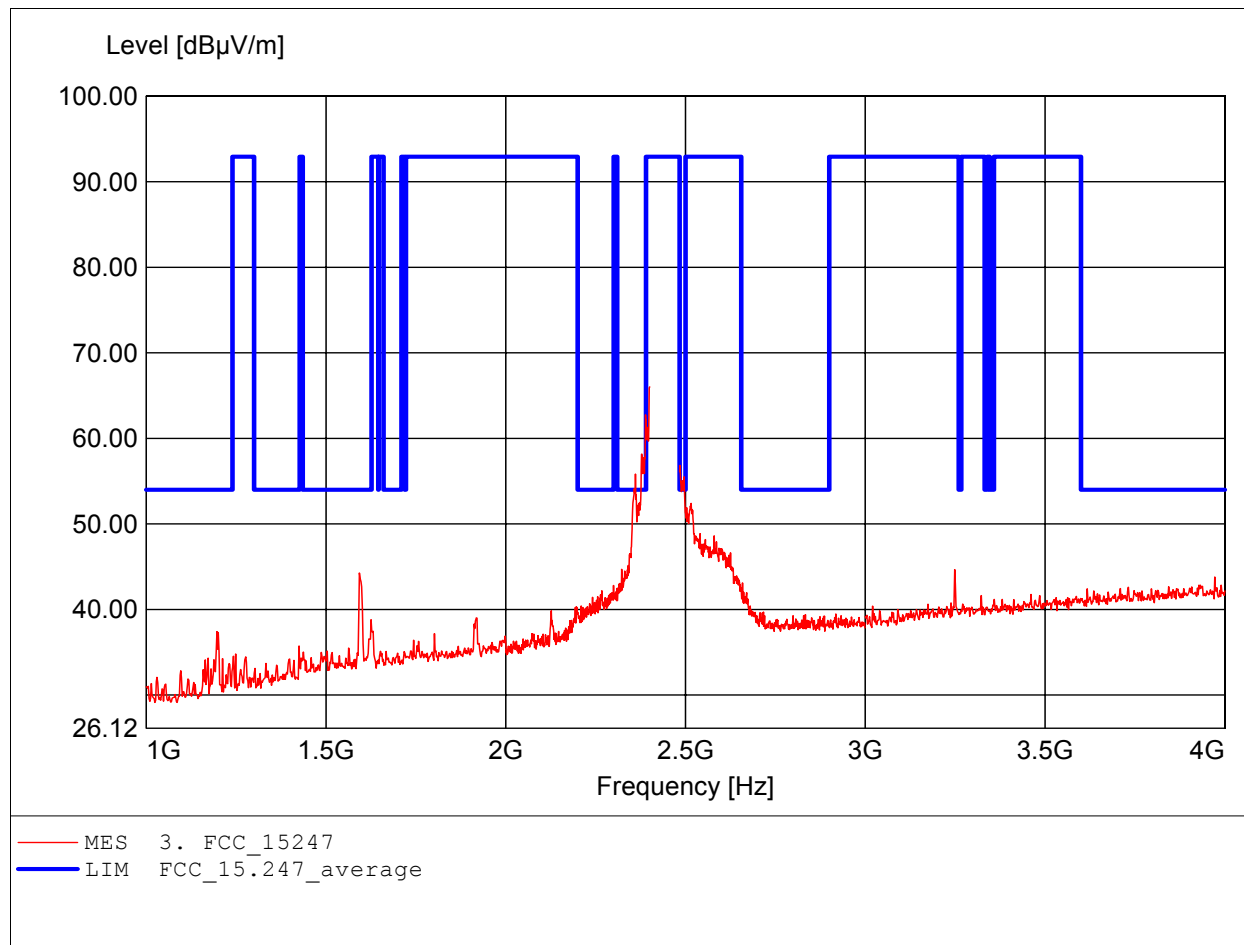
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.400GHz, Emax: 55.07dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

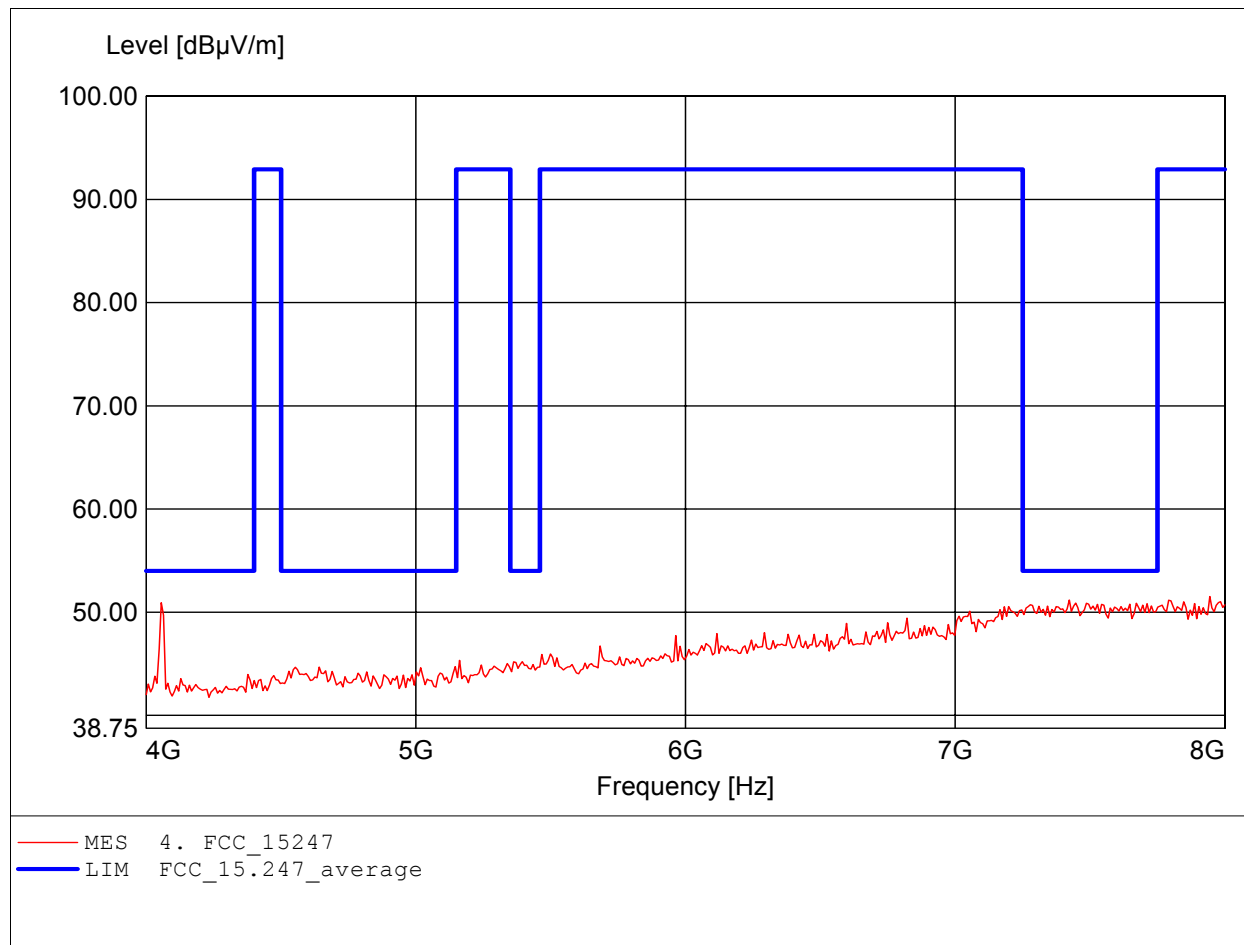
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.400GHz, Emax: 66.03dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

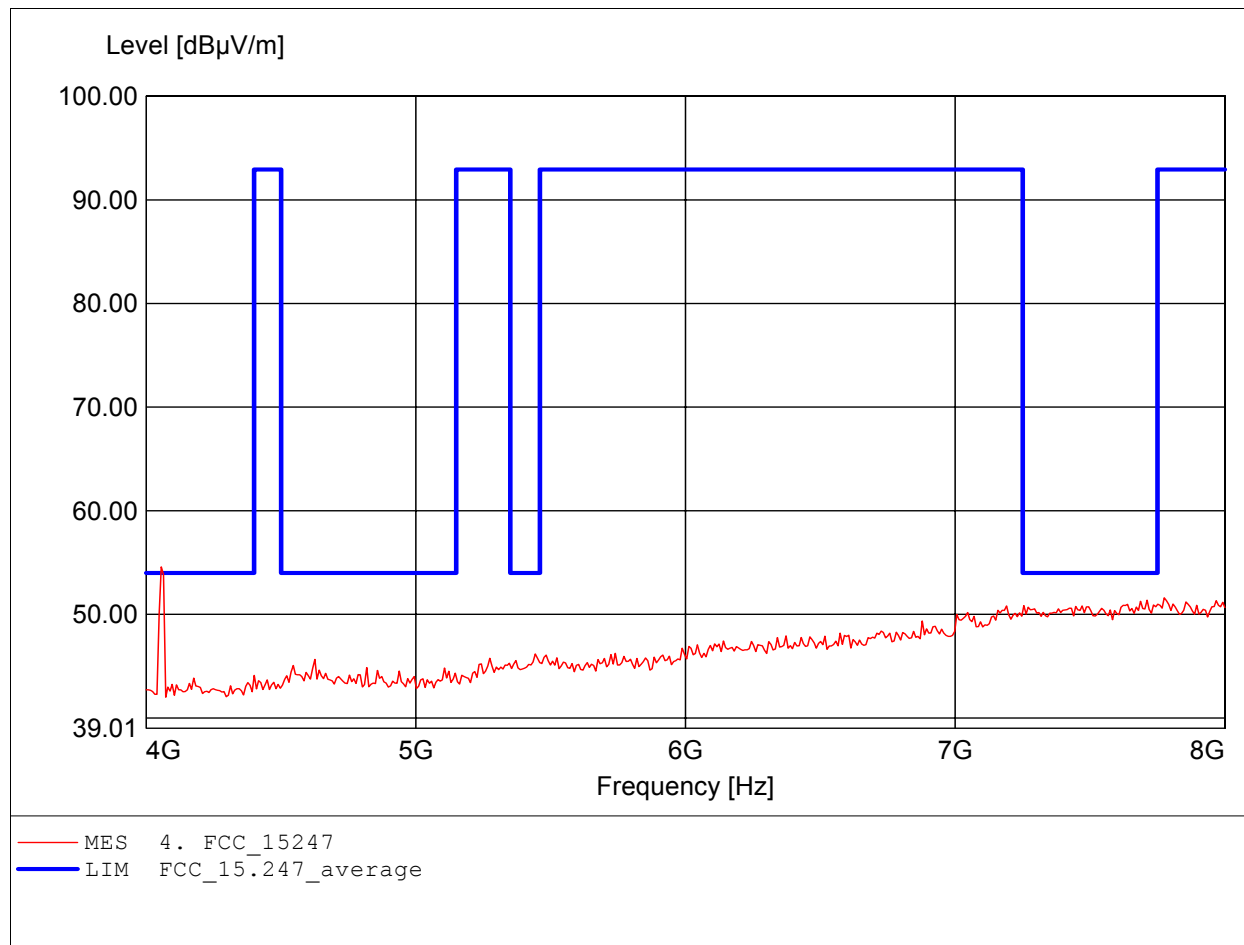
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.944GHz, Emax: 51.51dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

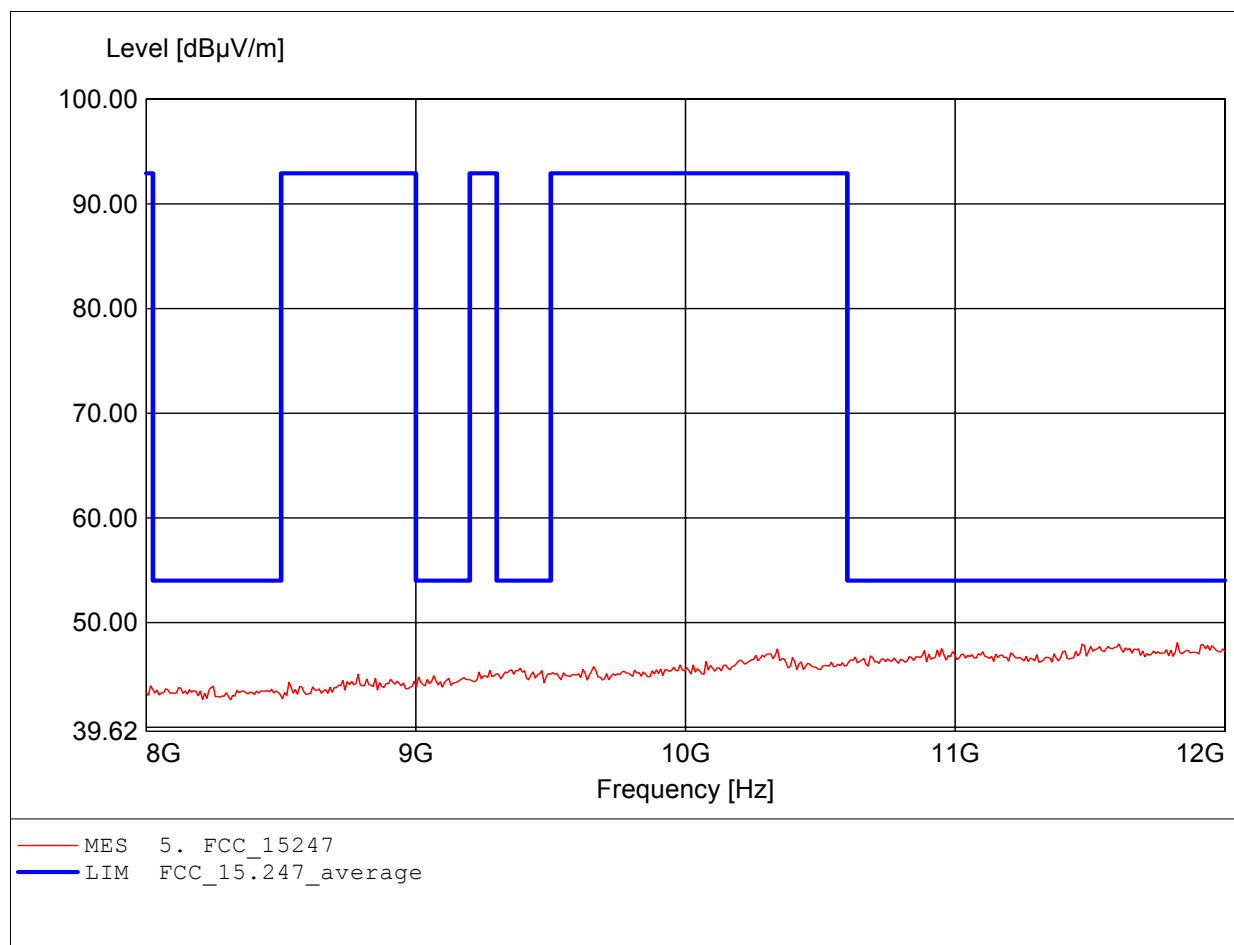
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 4.056GHz, Emax: 54.57dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

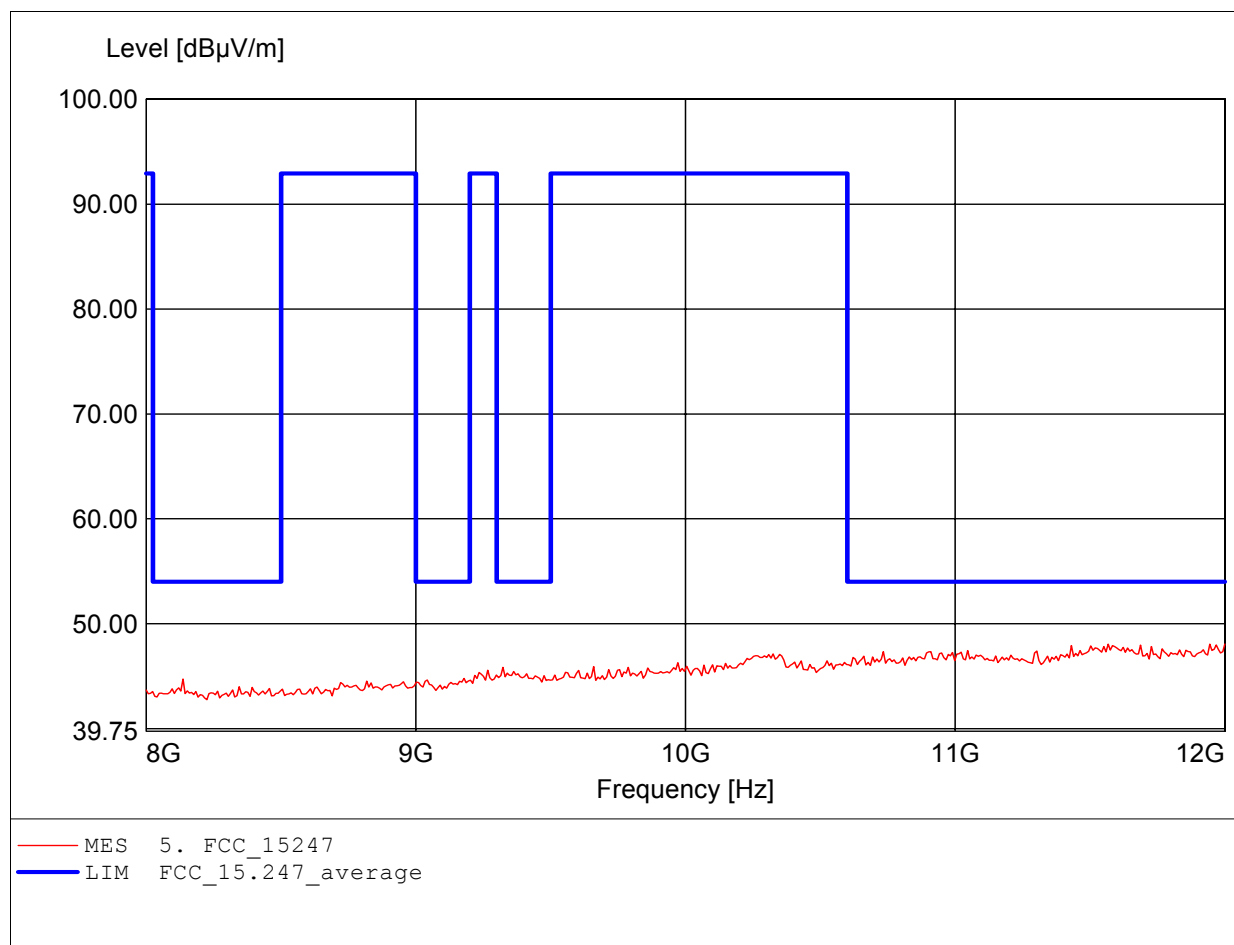
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.824GHz, Emax: 48.08dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

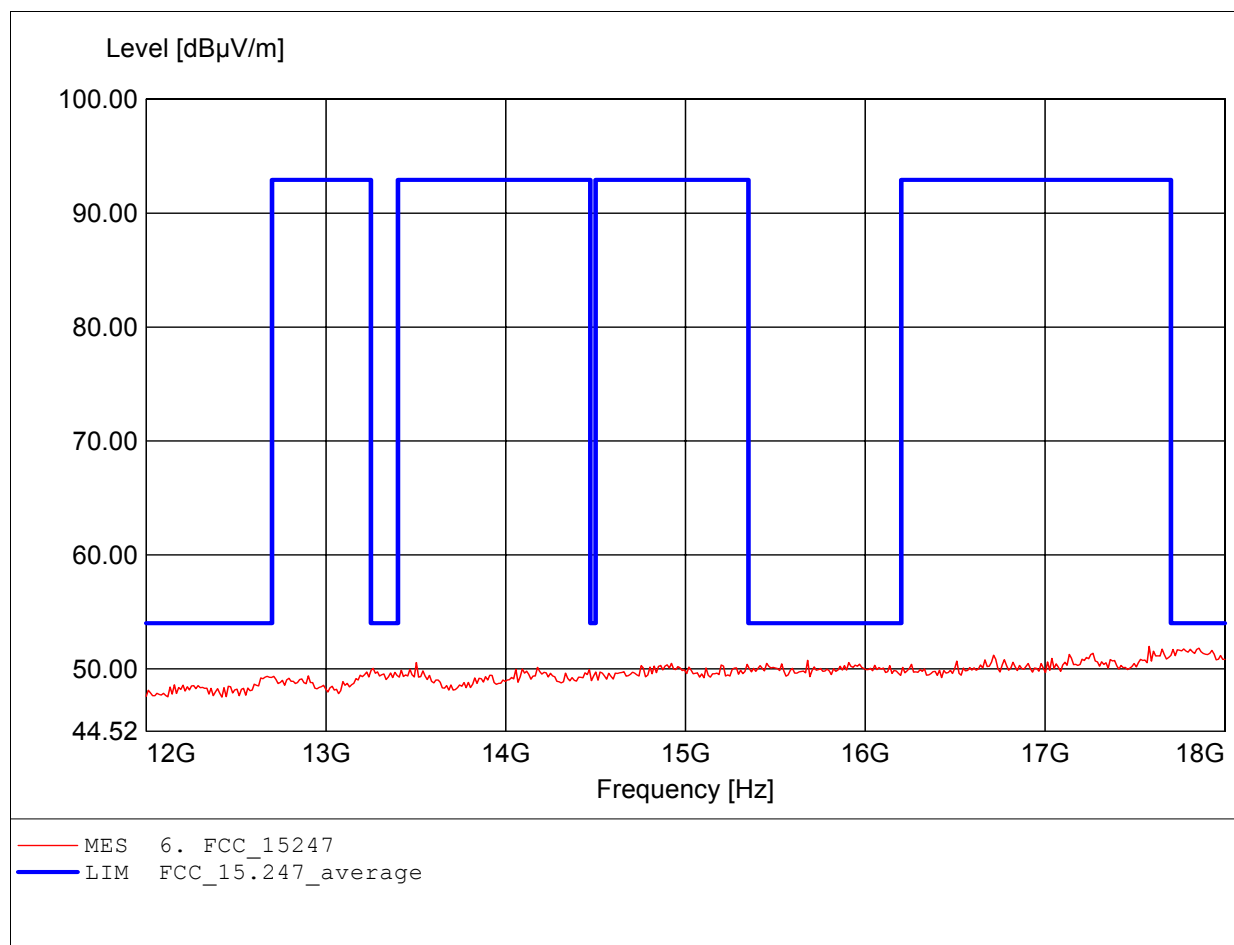
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 12.000GHz, Emax: 48.07dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

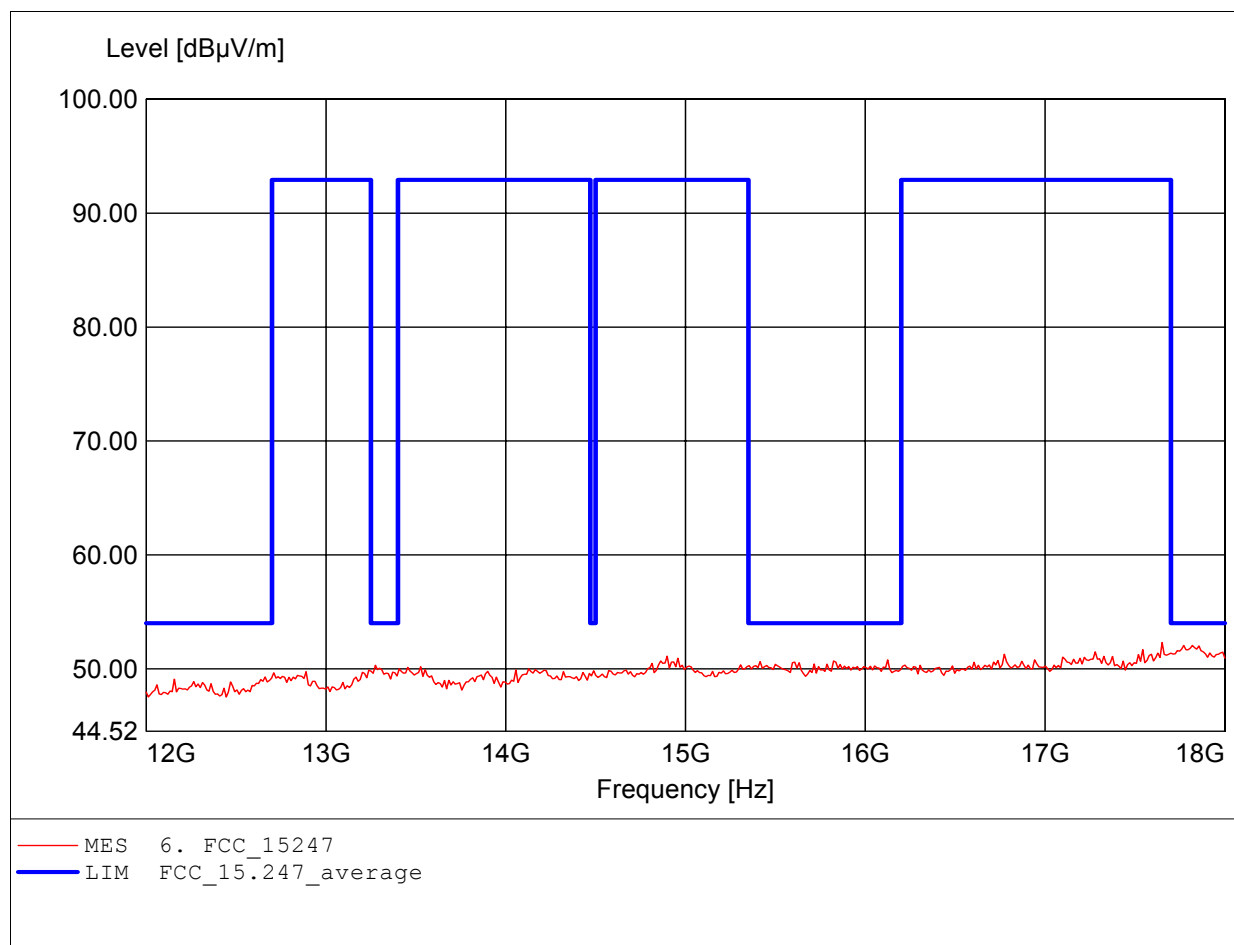
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.579GHz, Emax: 51.97dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

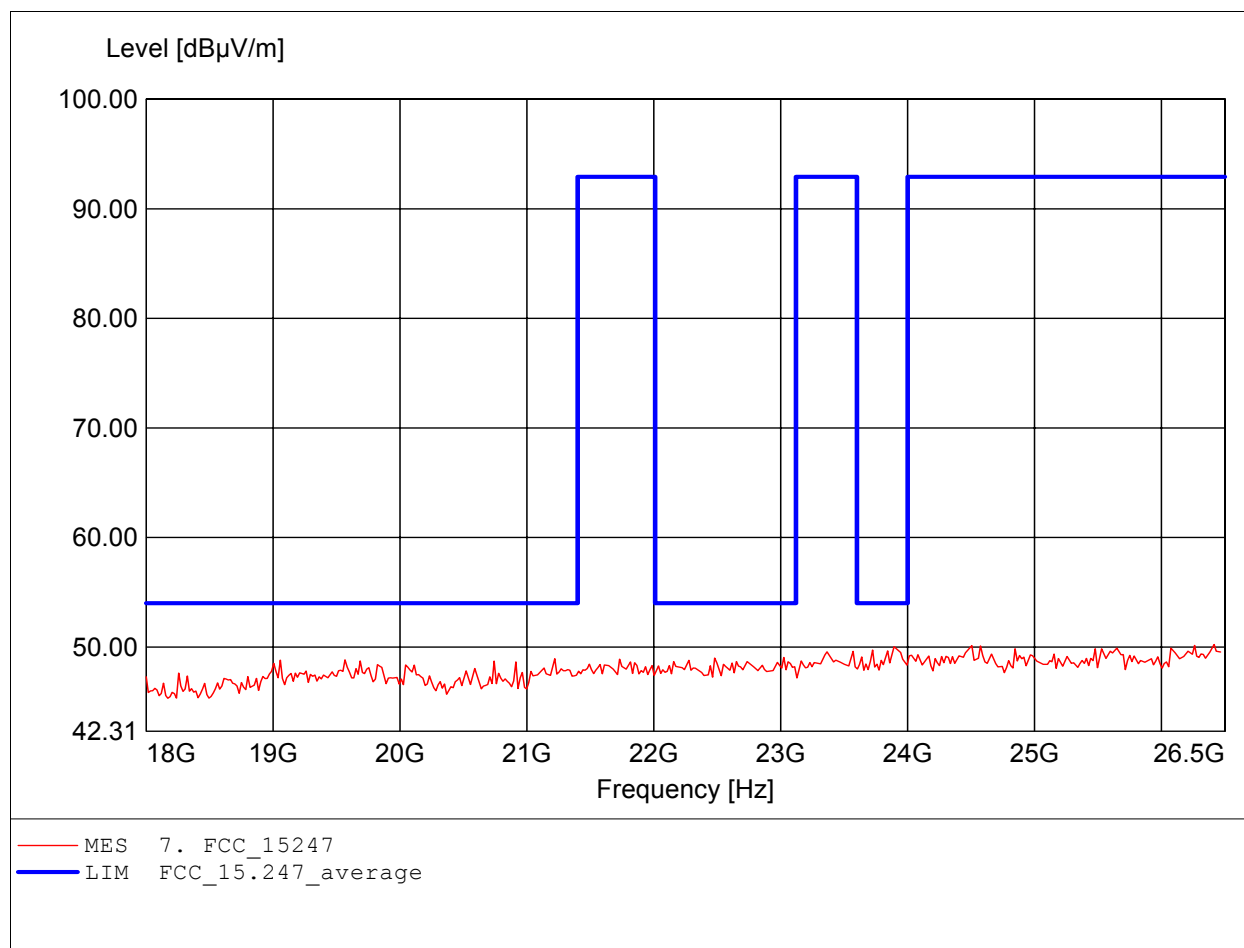
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.651GHz, Emax: 52.31dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

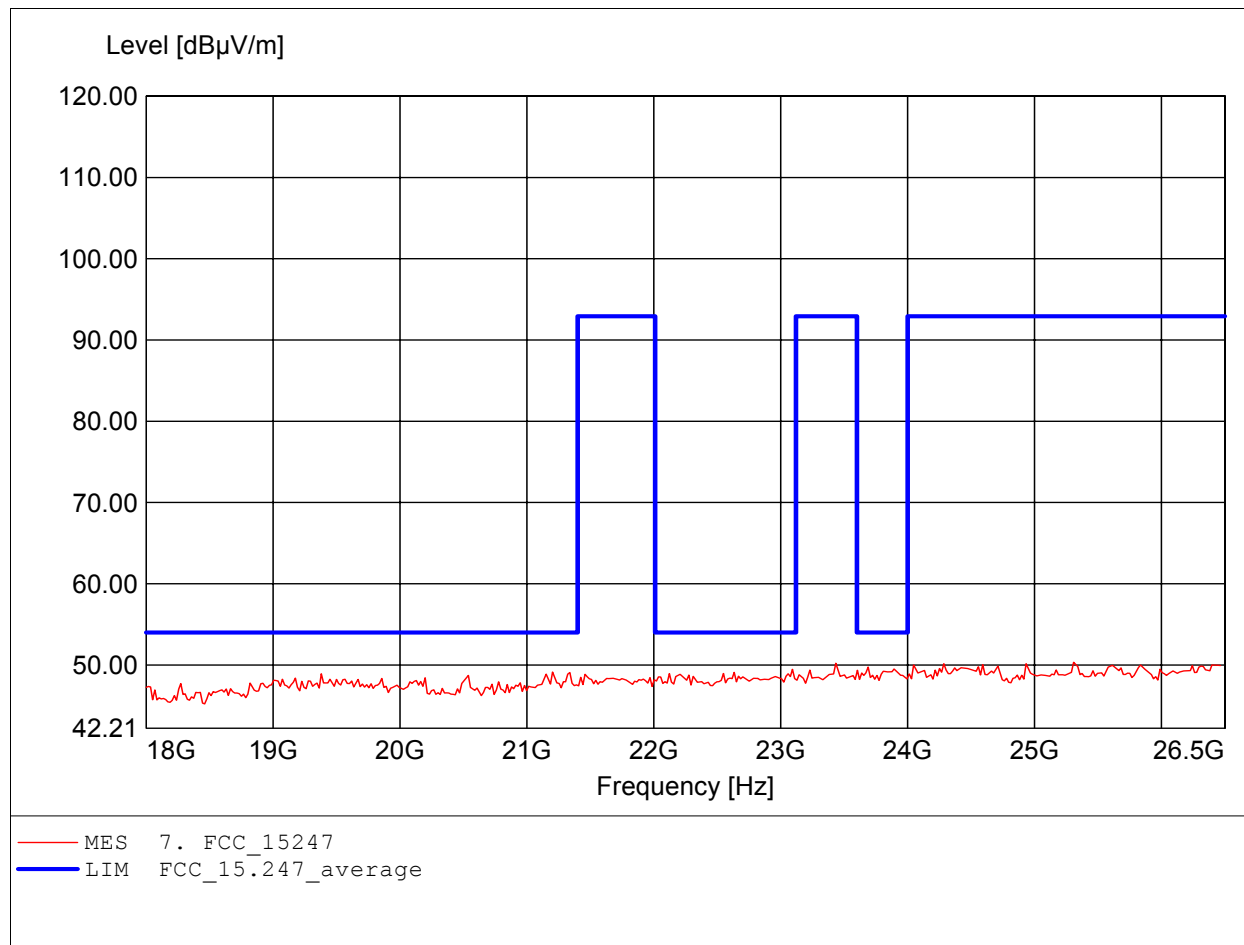
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.415GHz, Emax: 50.23dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

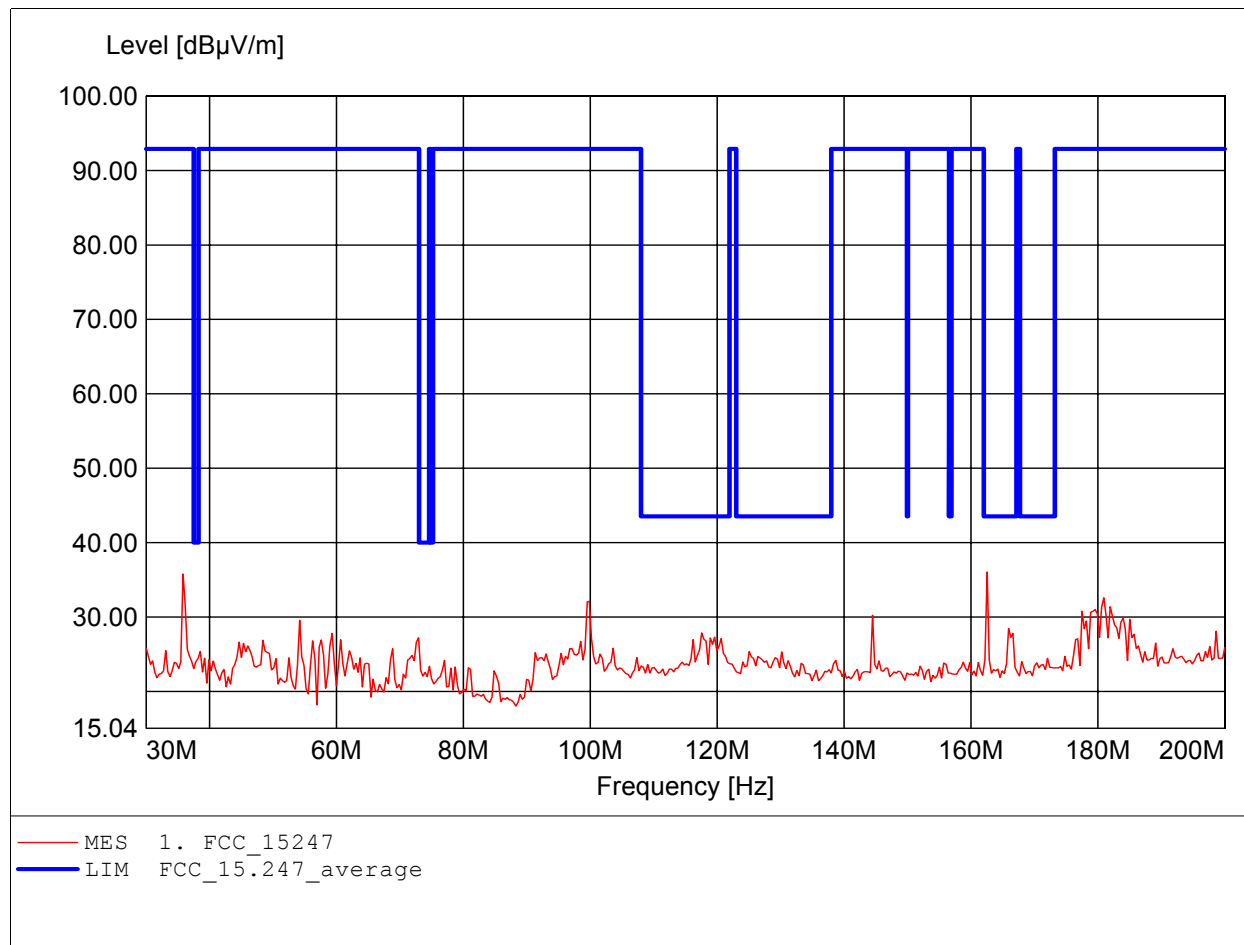
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 25.308GHz, Emax: 50.33dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

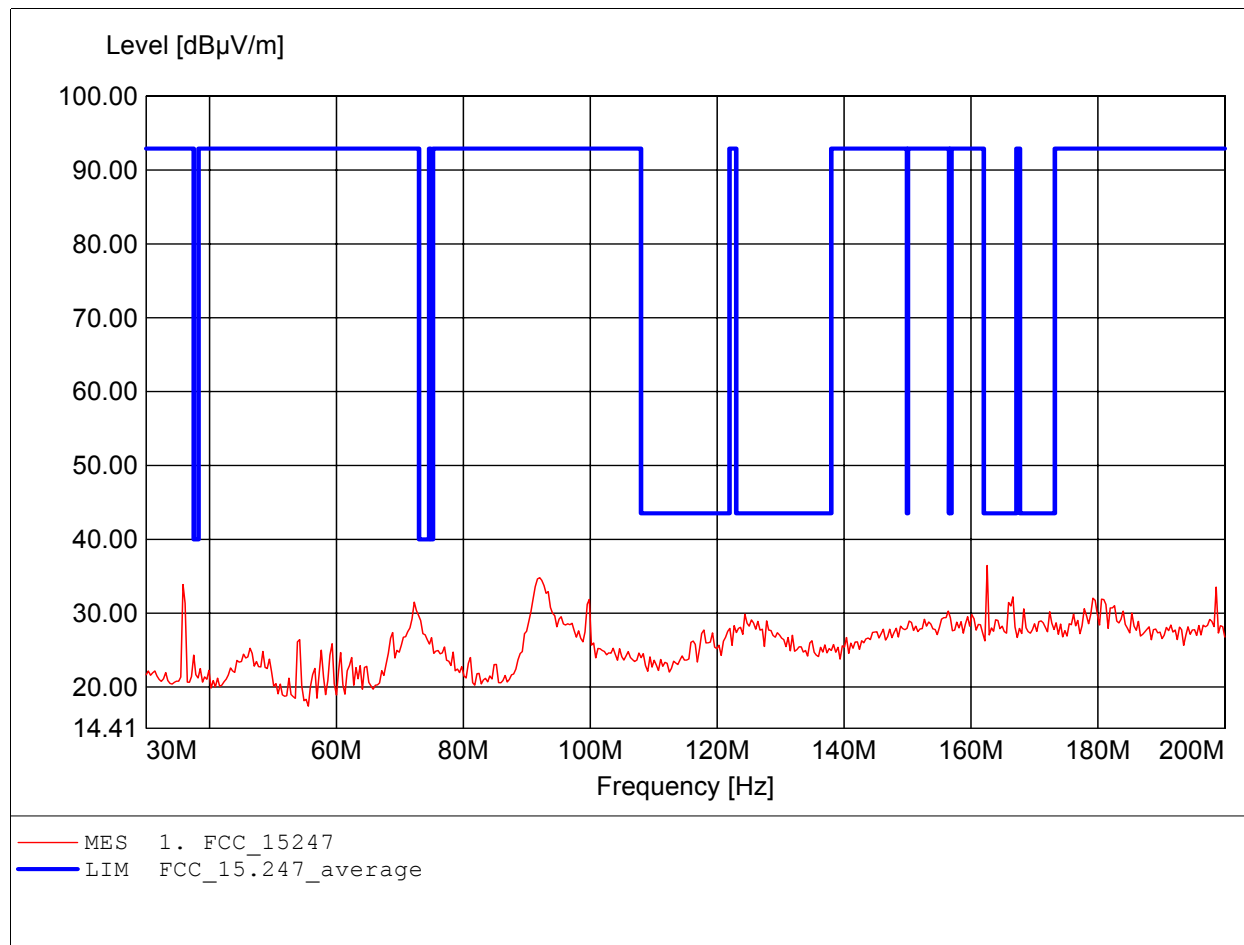
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 162.525MHz, Emax: 36.04dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

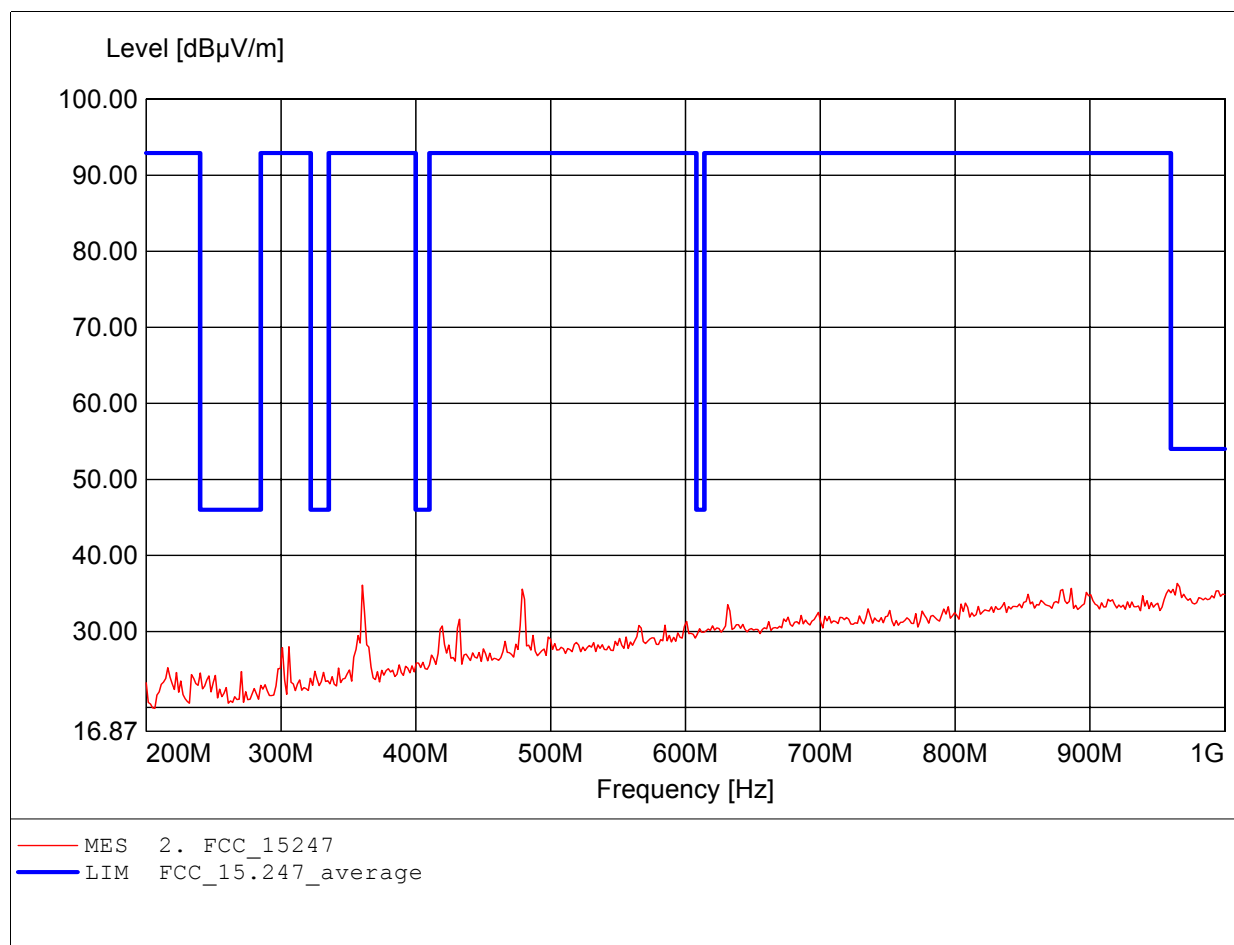
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Freq: 162.525MHz, Emax: 36.45dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

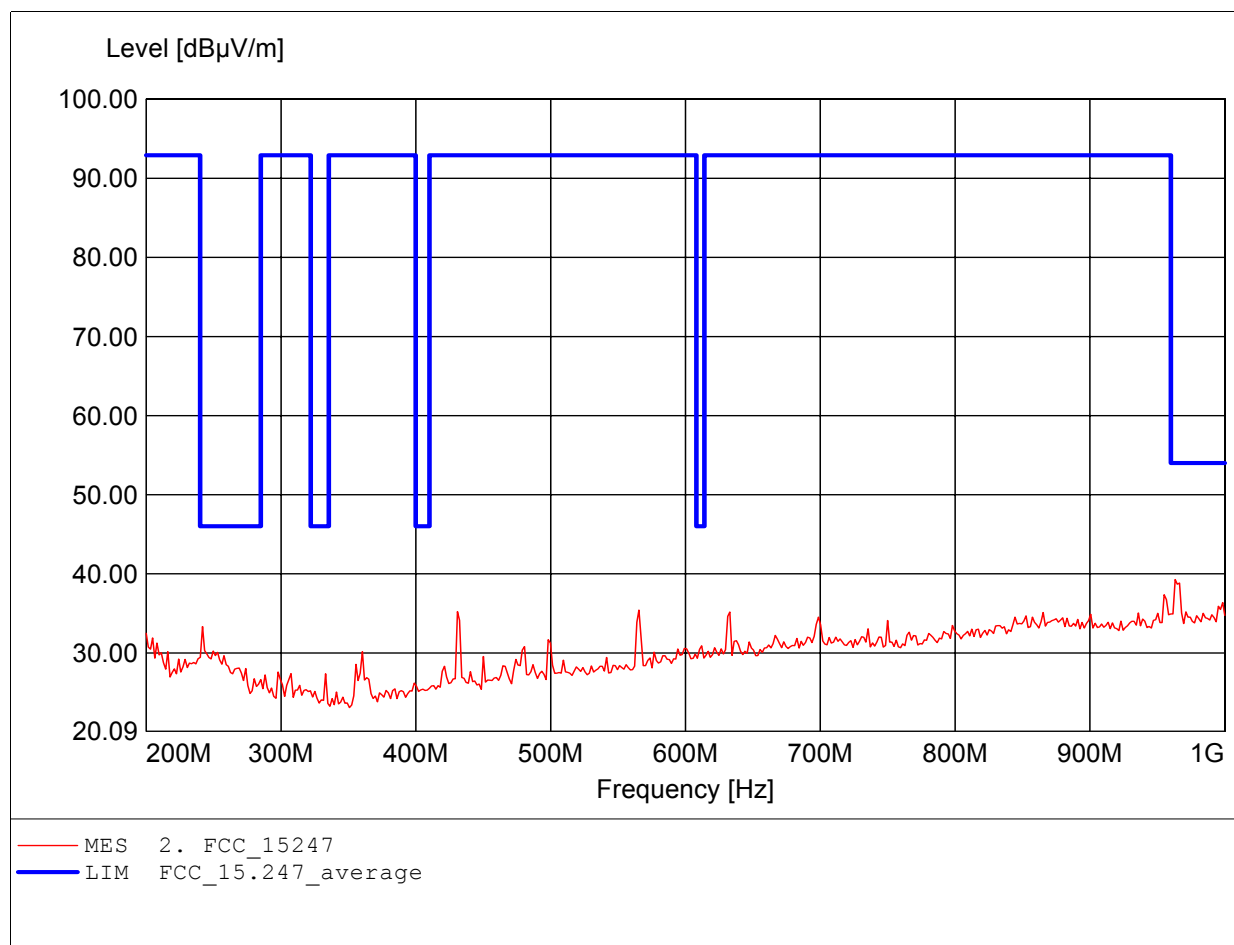
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 964.729MHz, Emax: 36.32dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

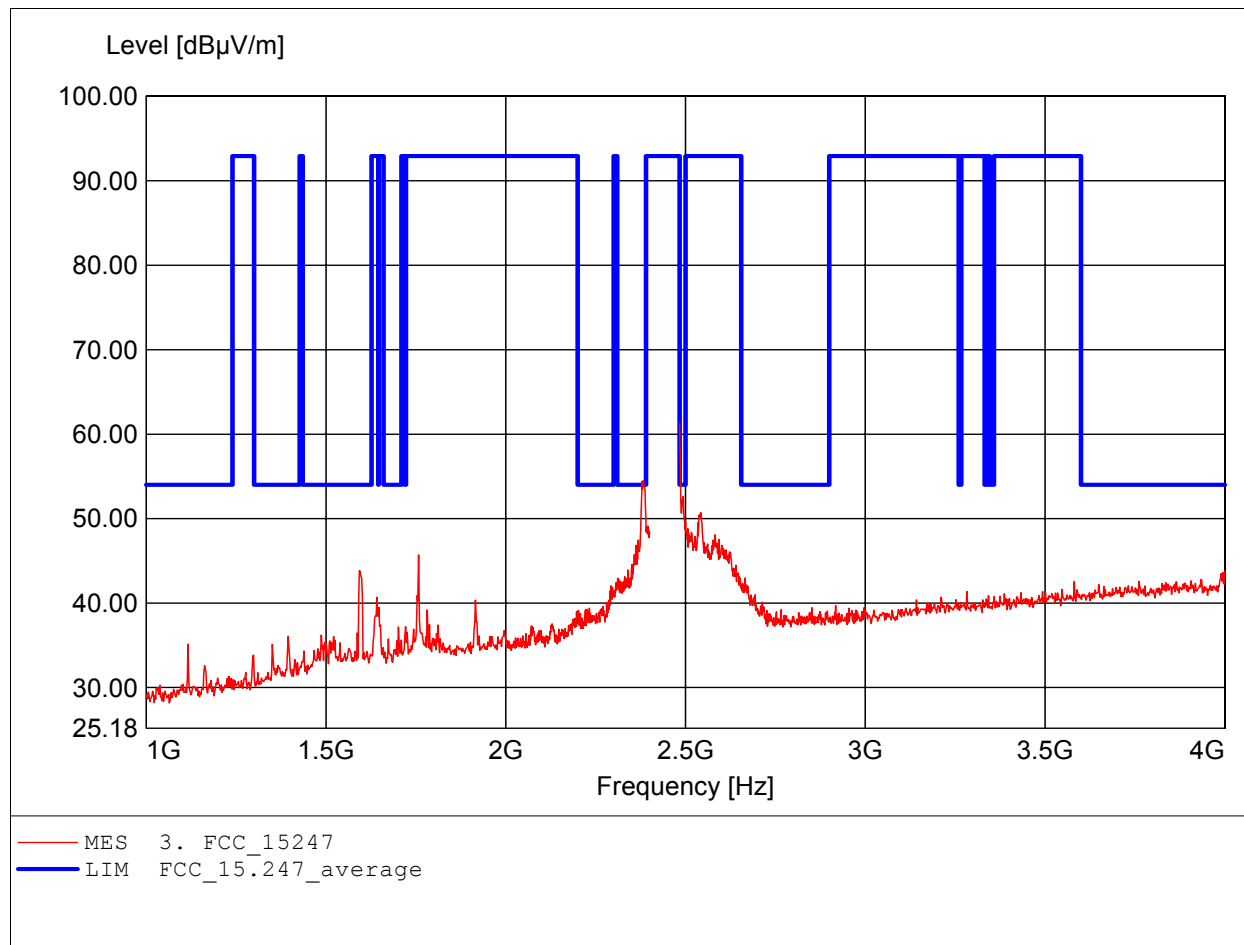
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223,
Freq: 963.126MHz, Emax: 39.27dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

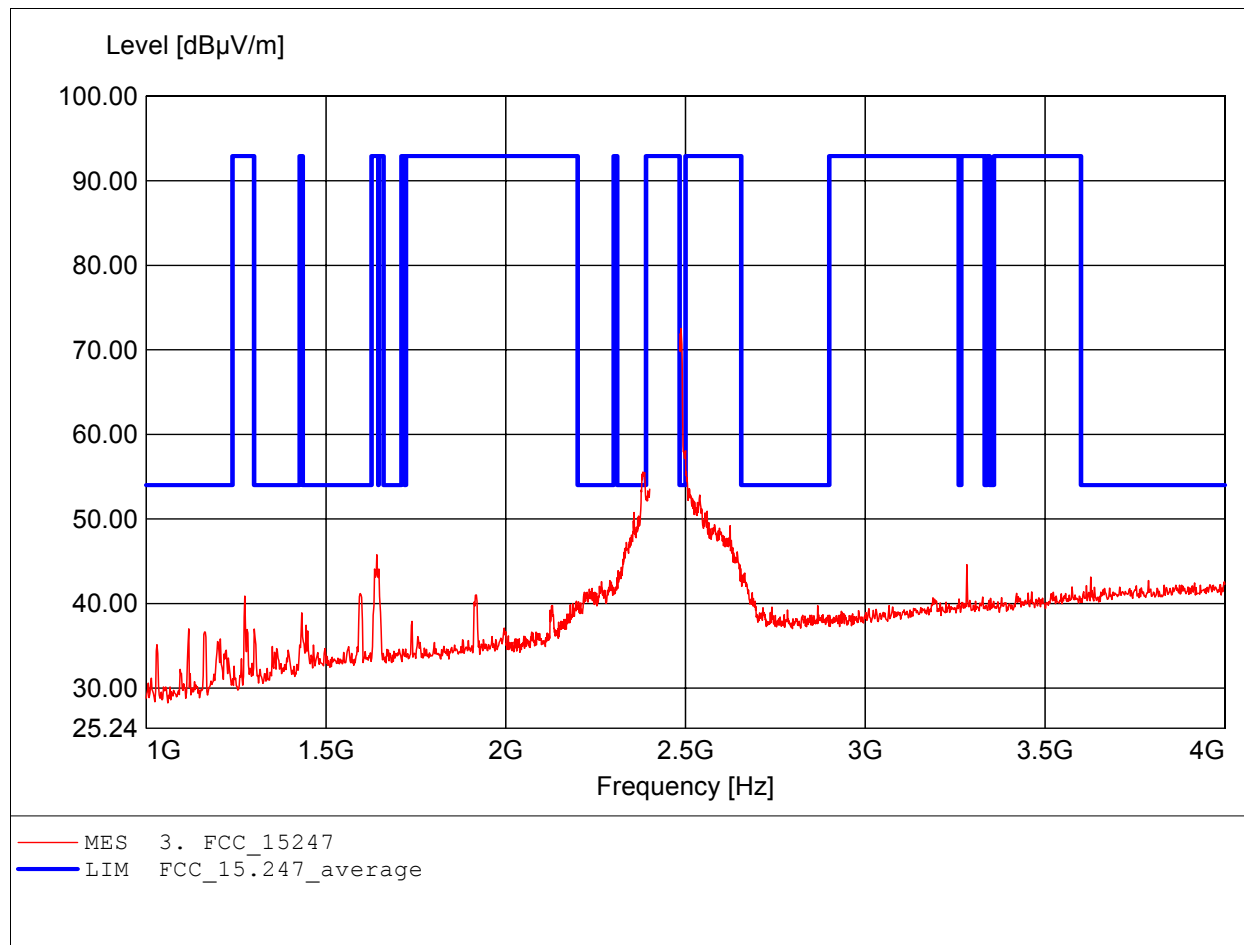
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.484GHz, Emax: 61.24dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

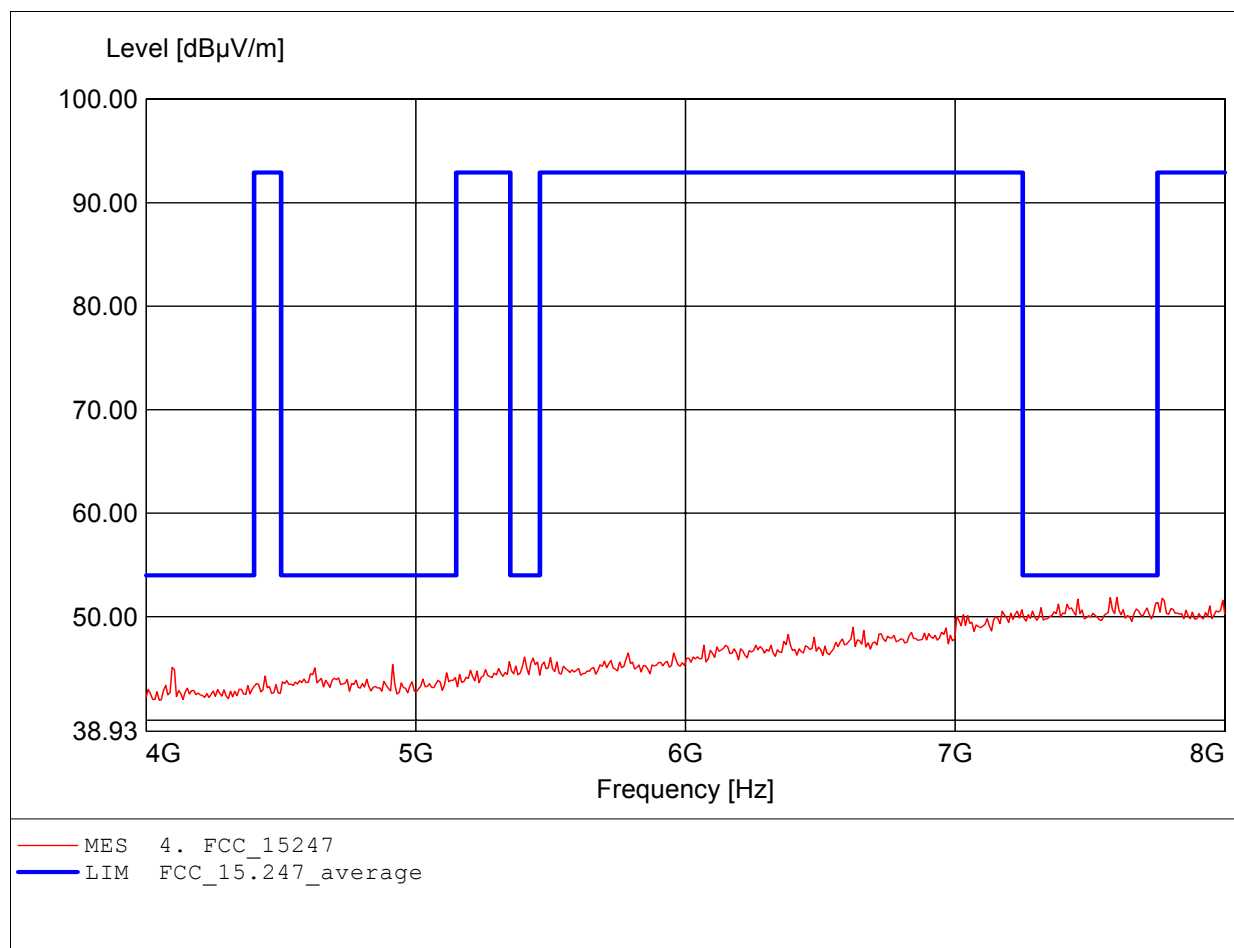
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 2.488GHz, Emax: 72.52dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

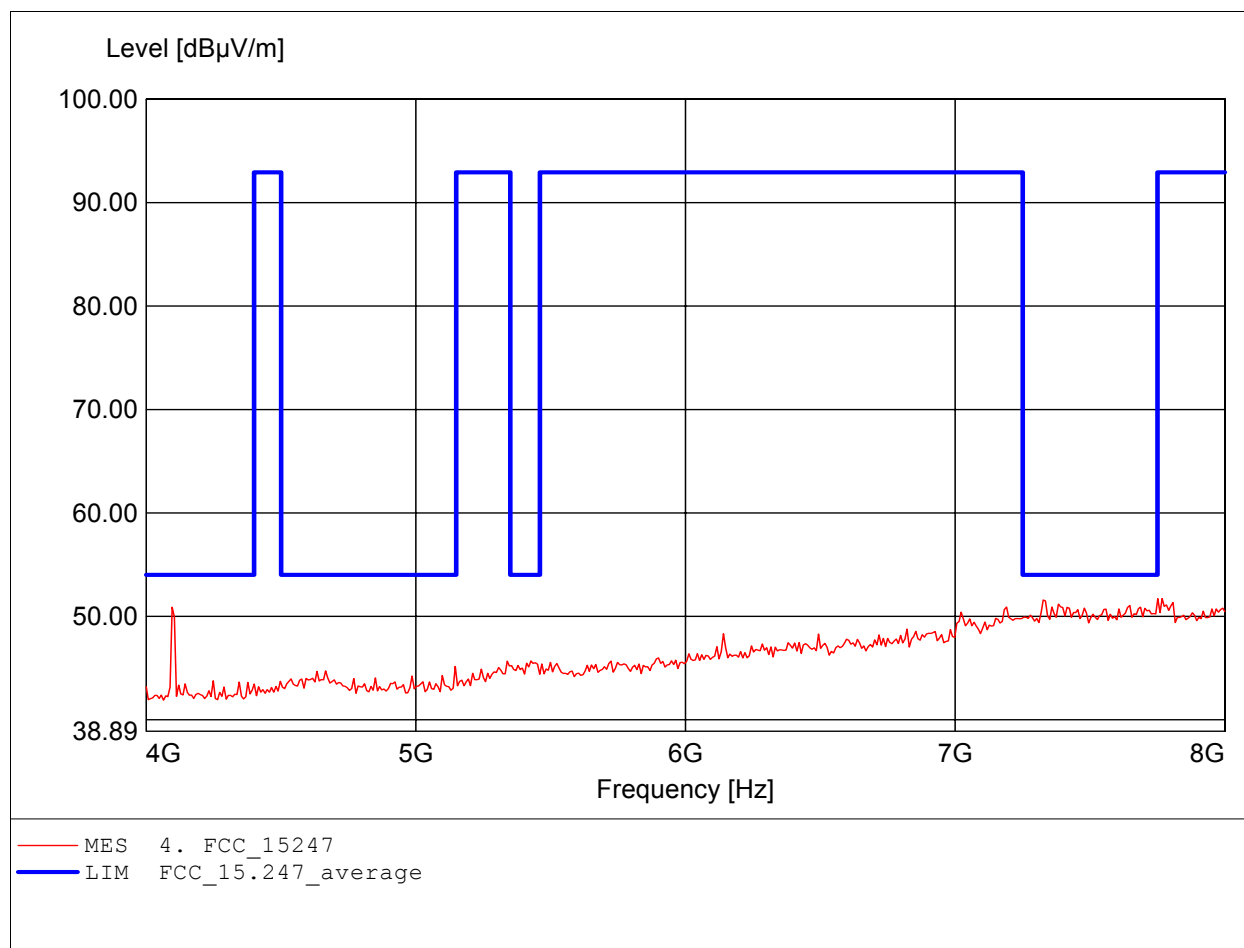
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.599GHz, Emax: 51.87dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

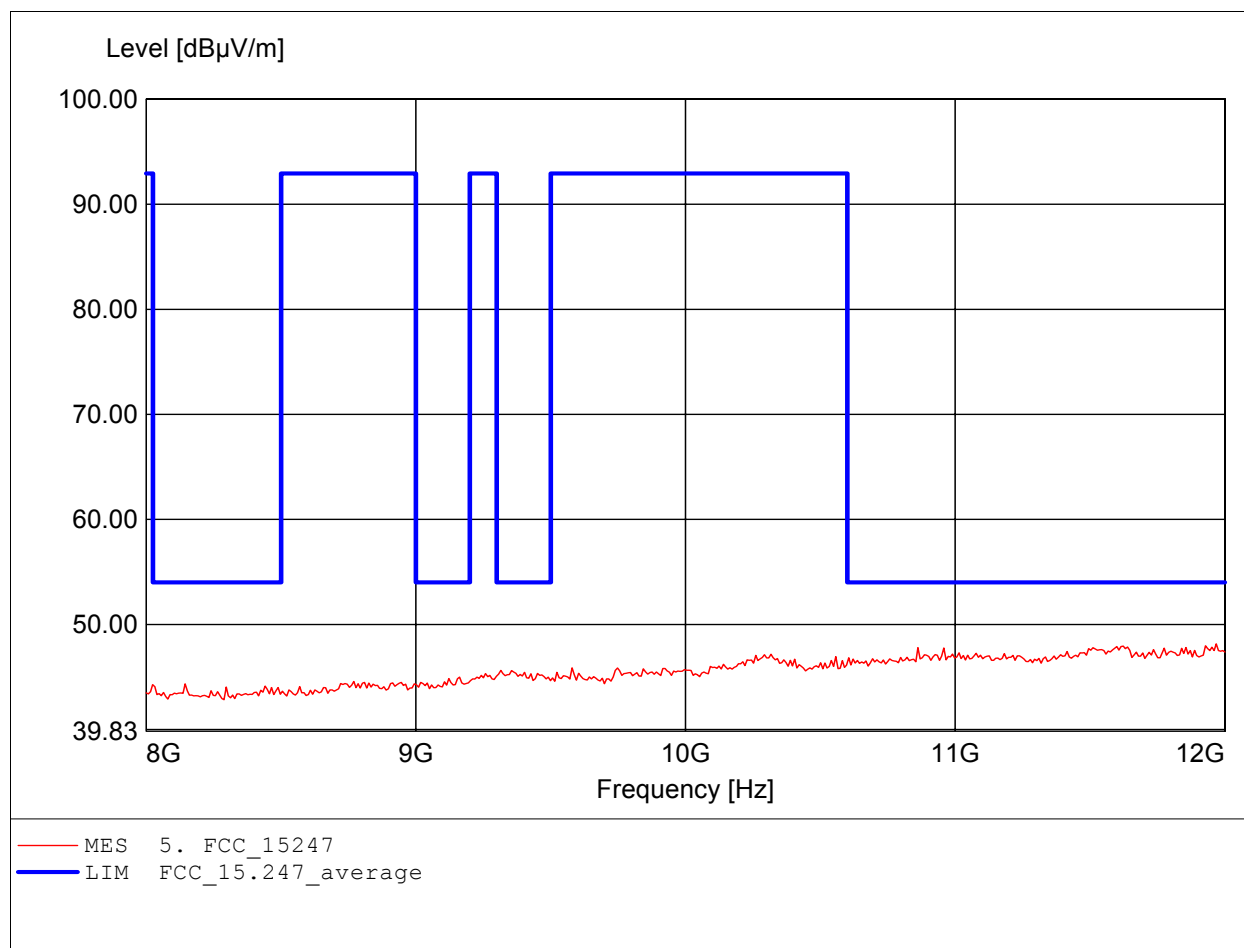
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 7.768GHz, Emax: 51.72dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

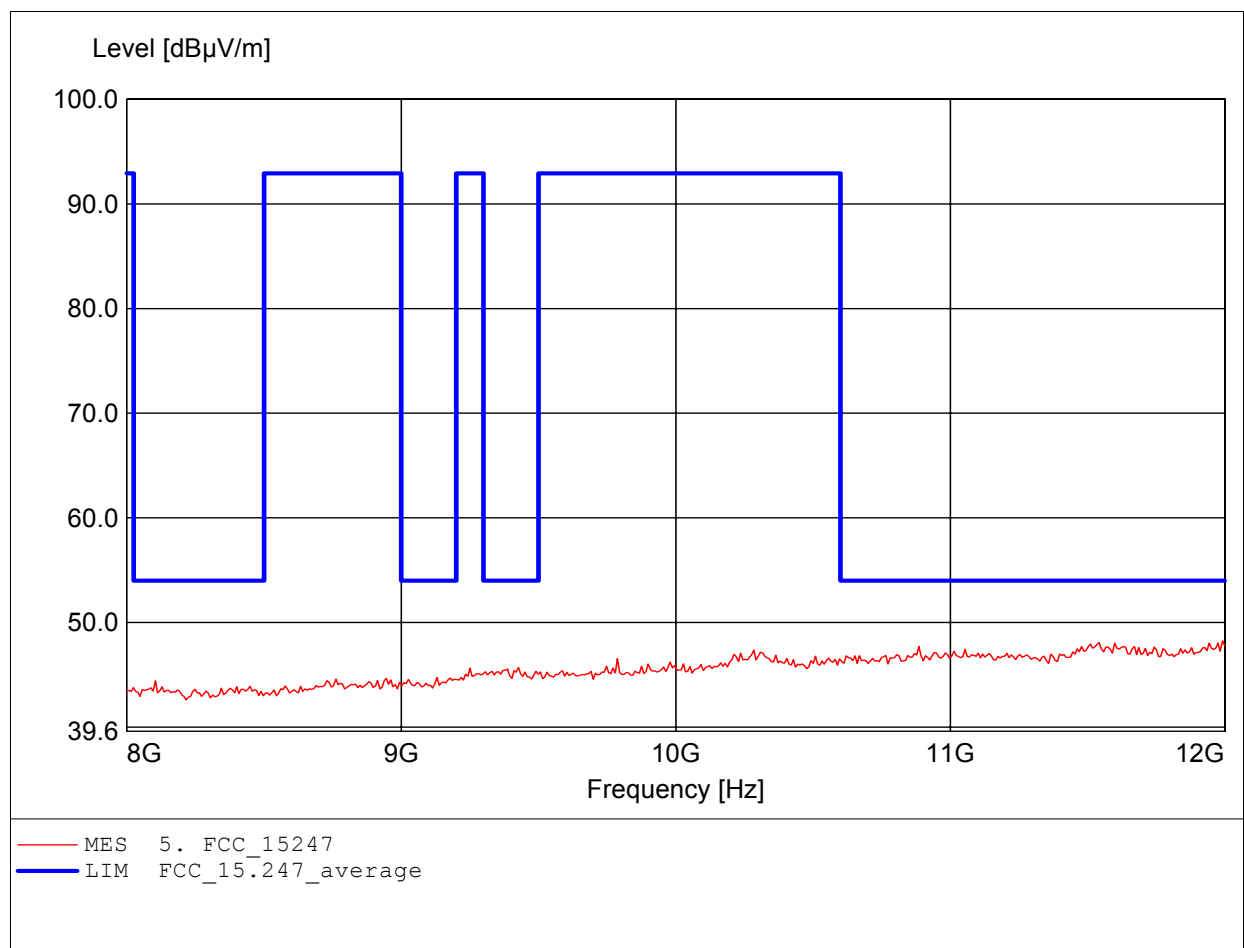
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.968GHz, Emax: 48.14dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

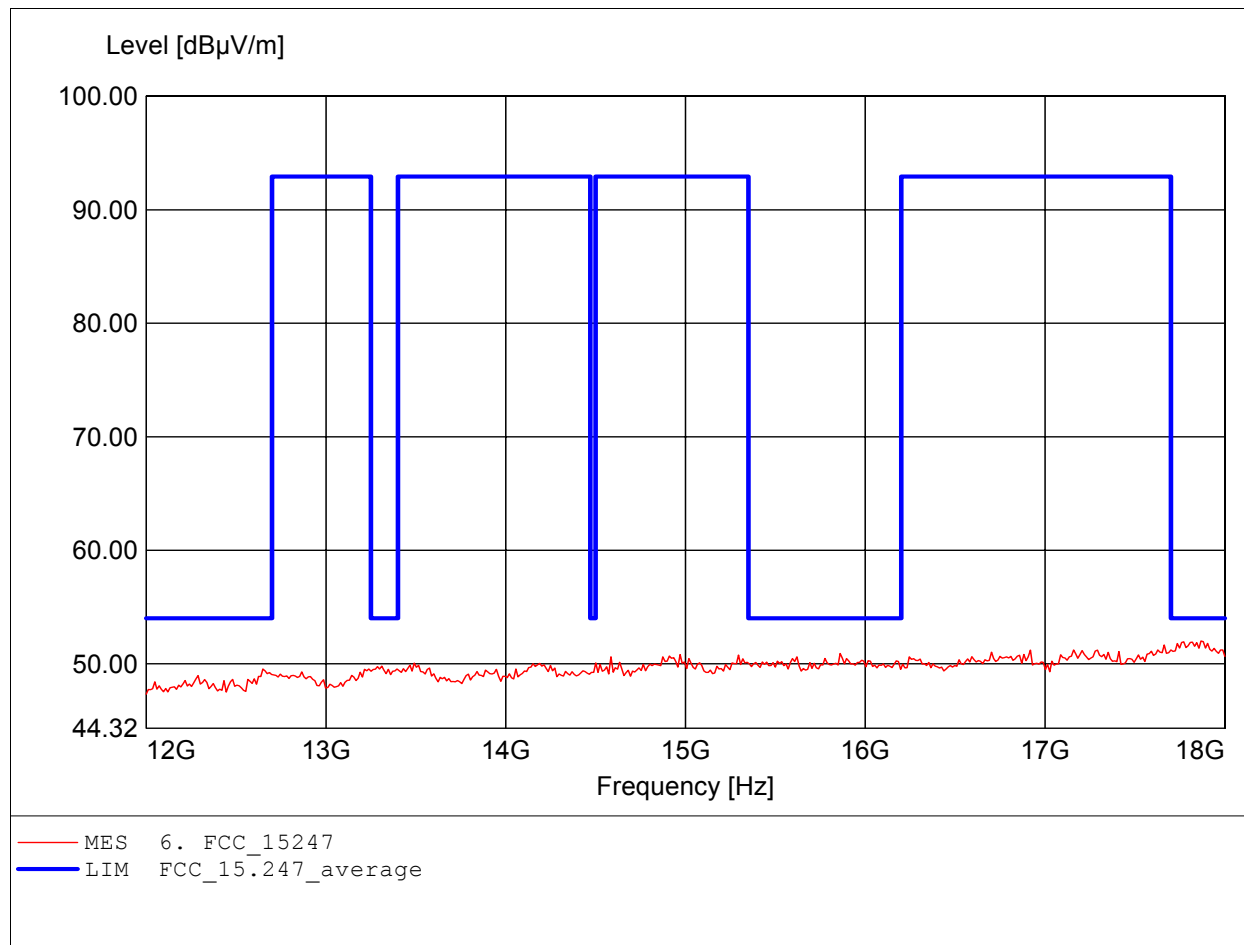
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 11.992GHz, Emax: 48.24dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

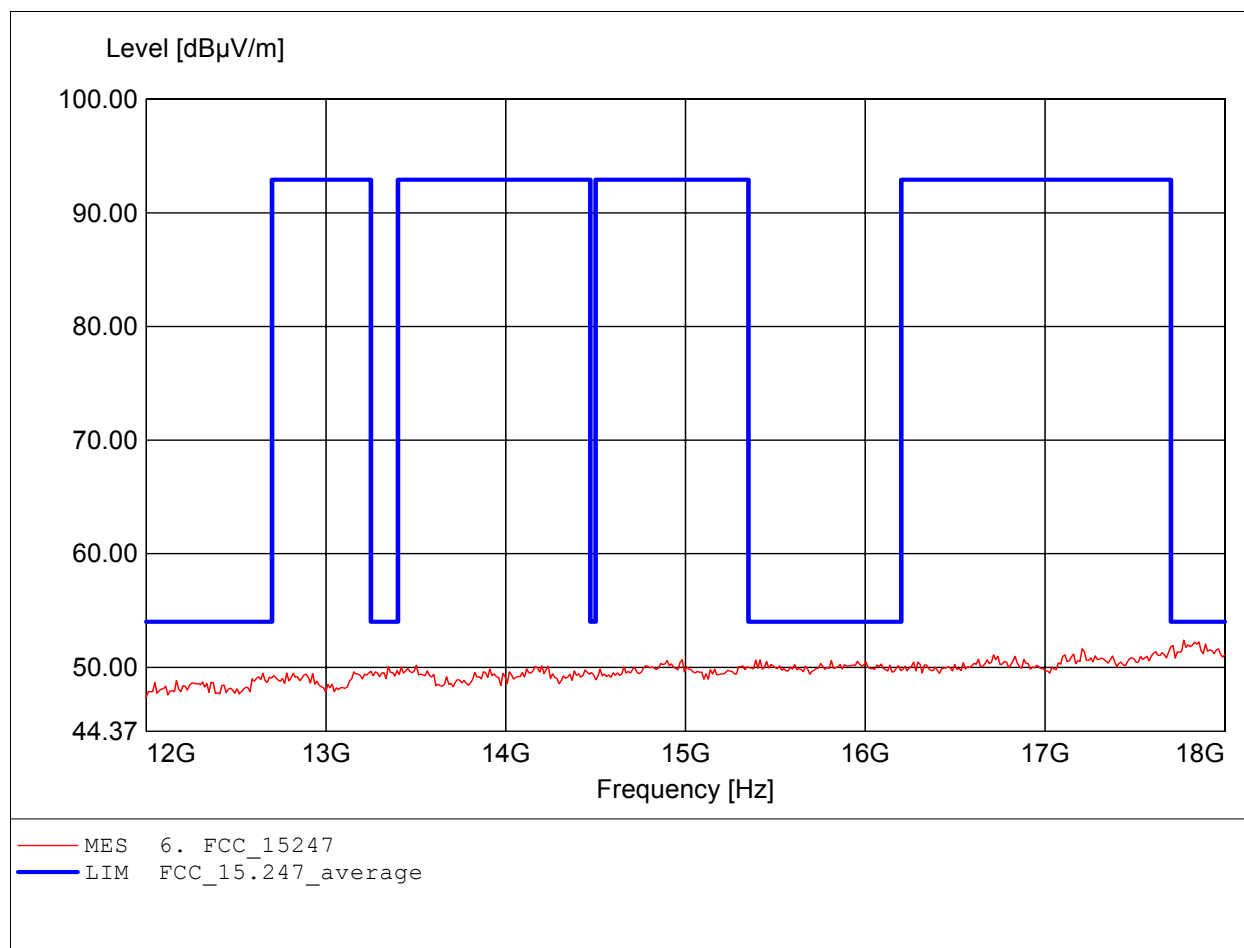
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.868GHz, Emax: 52.01dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

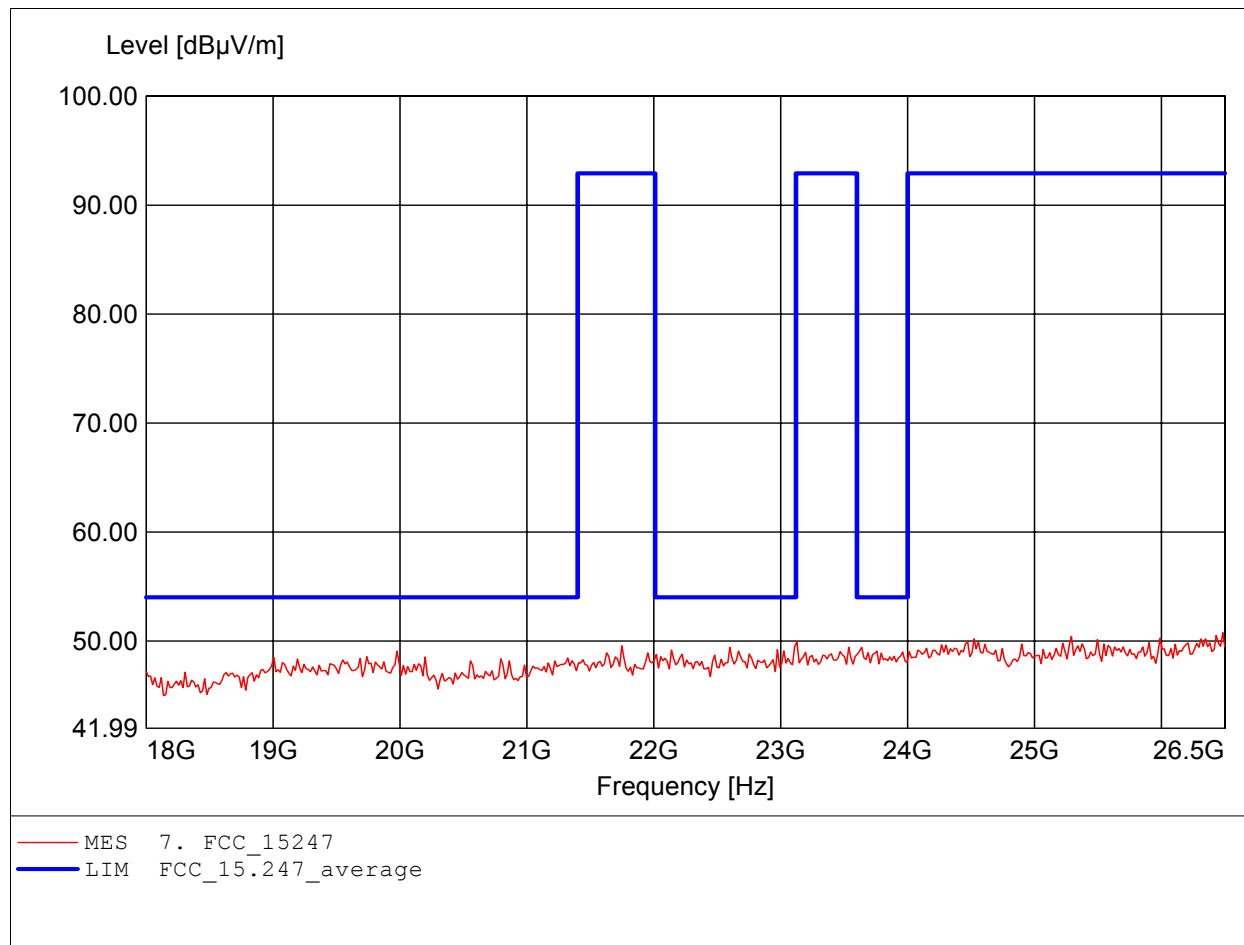
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Freq: 17.772GHz, Emax: 52.40dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

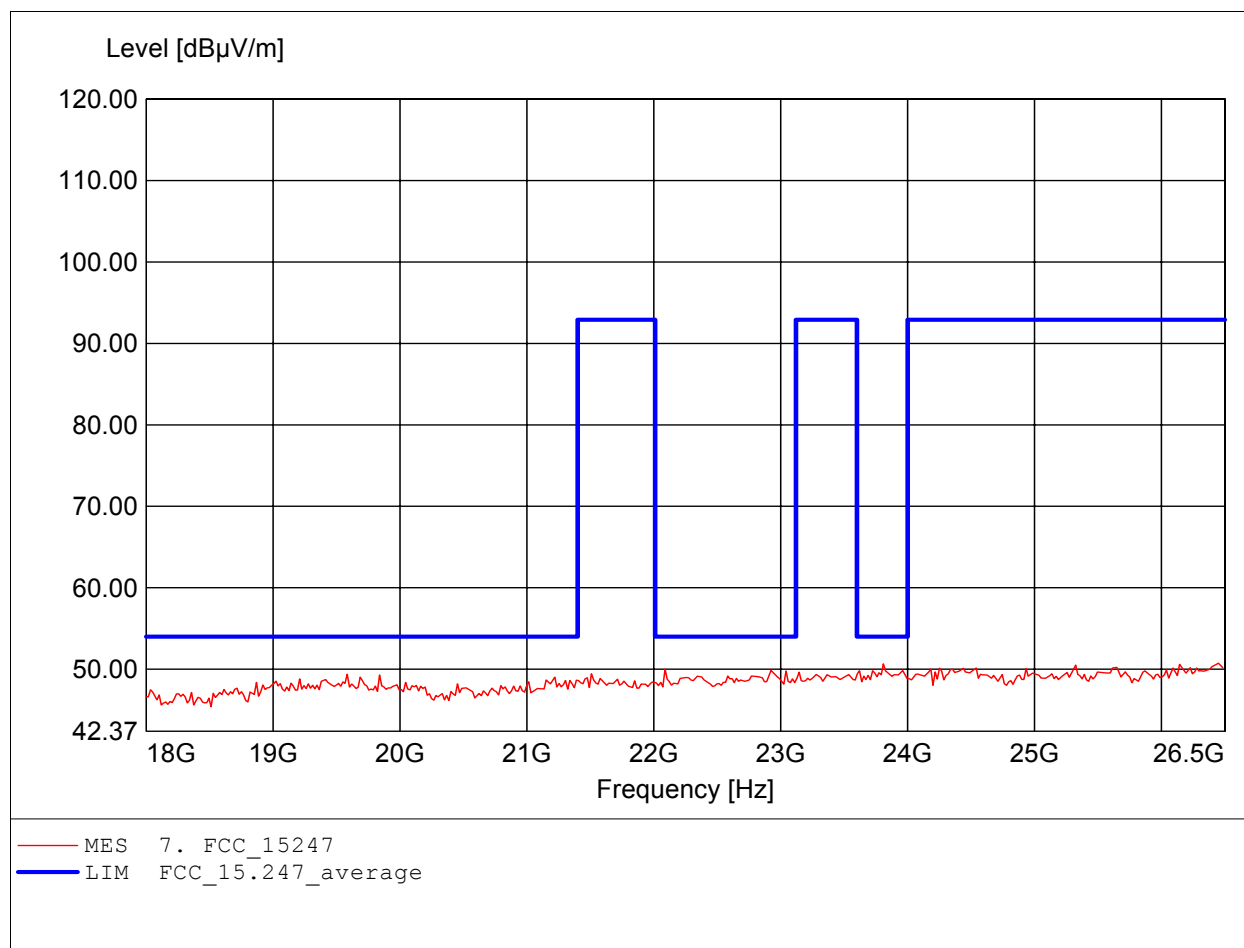
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.483GHz, Emax: 50.76dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Freq: 26.449GHz, Emax: 50.73dBμV/m, RBW: 1MHz

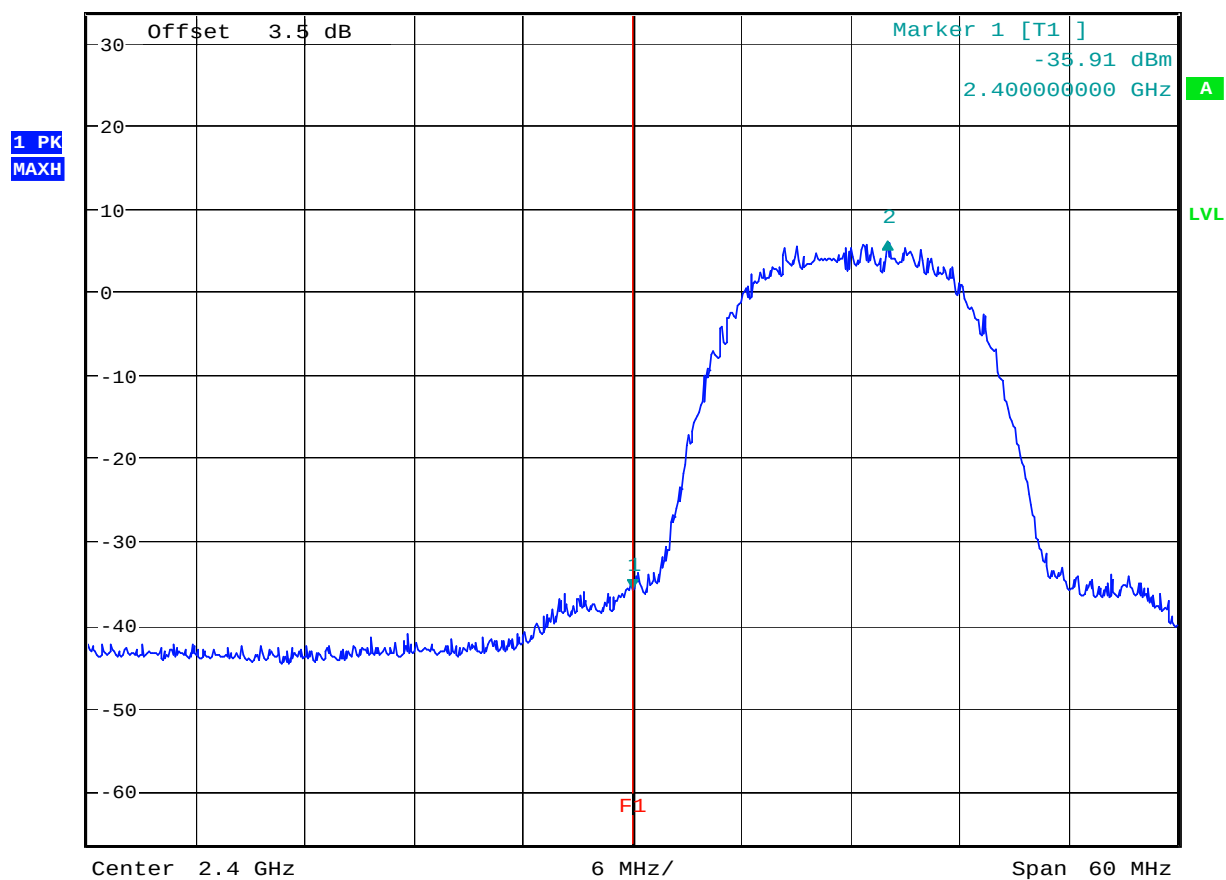
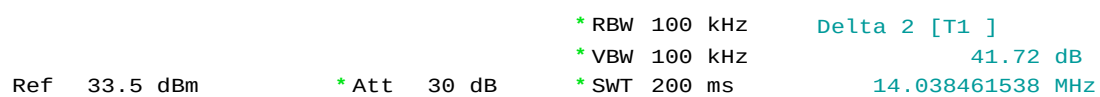




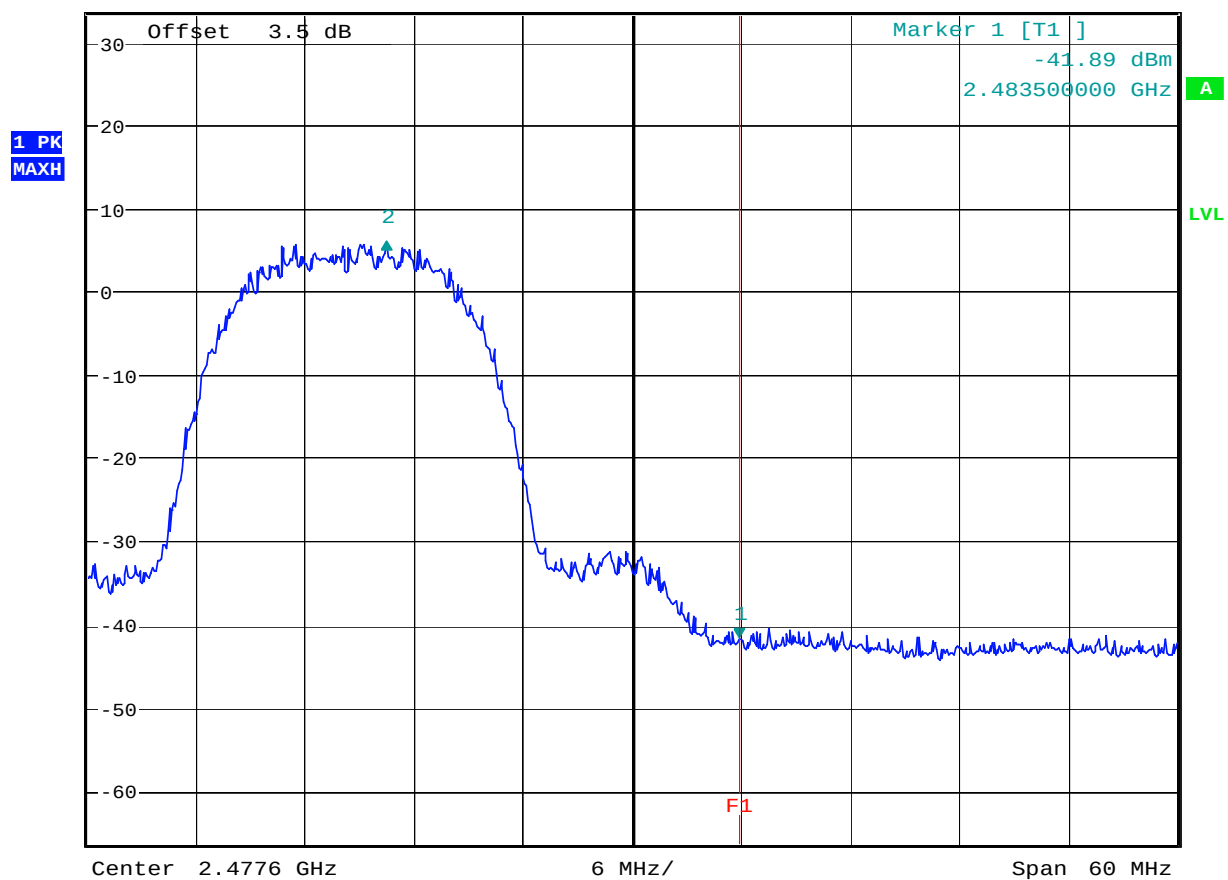
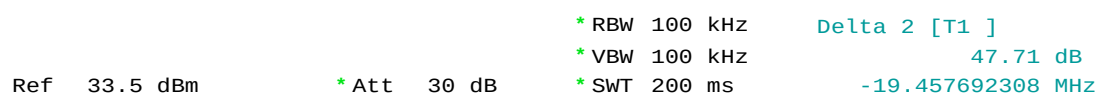
Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix C

Band Edge Measurement



BANEDGE COMPLIANCE 802.11b CH1
Date: 14.APR.2006 10:03:31



Date: 14.APR.2006 10:05:42



Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix D

Minimum 6dB Bandwidth



* RBW 100 kHz

Marker 1 [T1]

* VBW 100 kHz

4.97 dBm

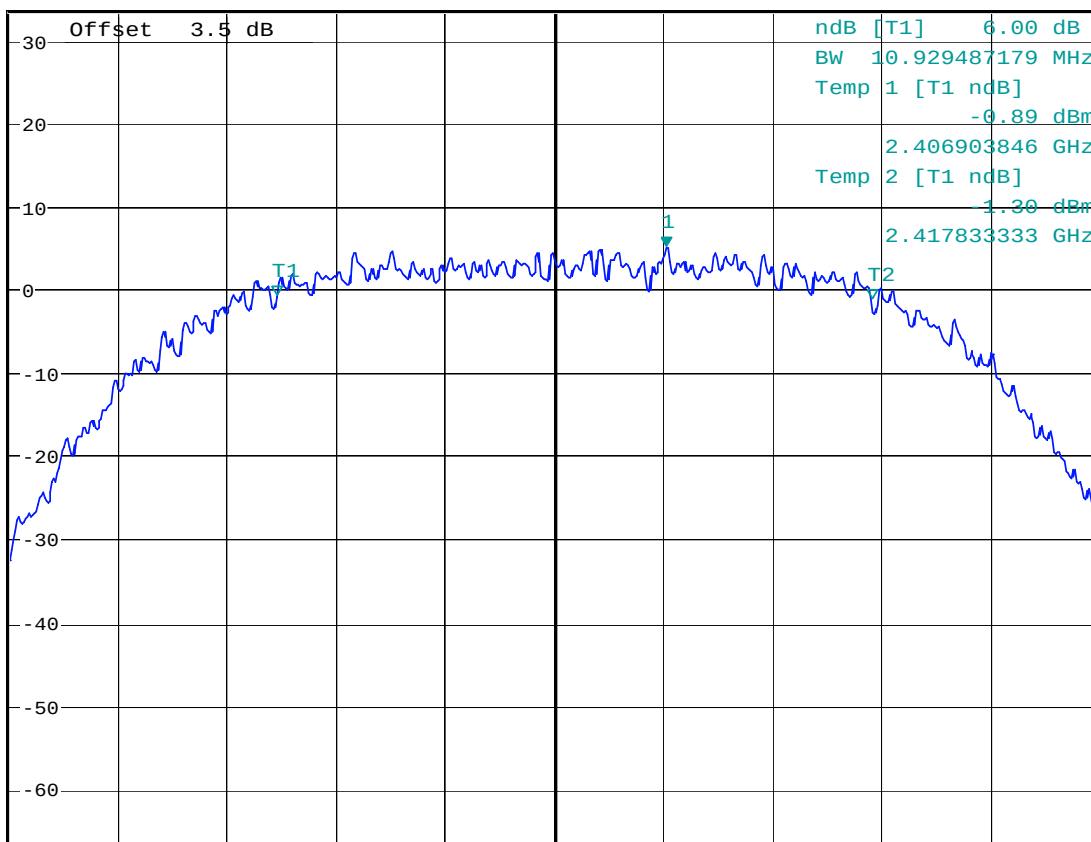
* SWT 200 ms

2.414051282 GHz

Ref 33.5 dBm

* Att 30 dB

1 PK
MAXH



A

LVL

Center 2.412 GHz

2 MHz/

Span 20 MHz

11B 6dB BANDWIDTH CH1

Date: 8.APR.2006 11:37:17



* RBW 100 kHz

Marker 1 [T1]

* VBW 100 kHz

5.07 dBm

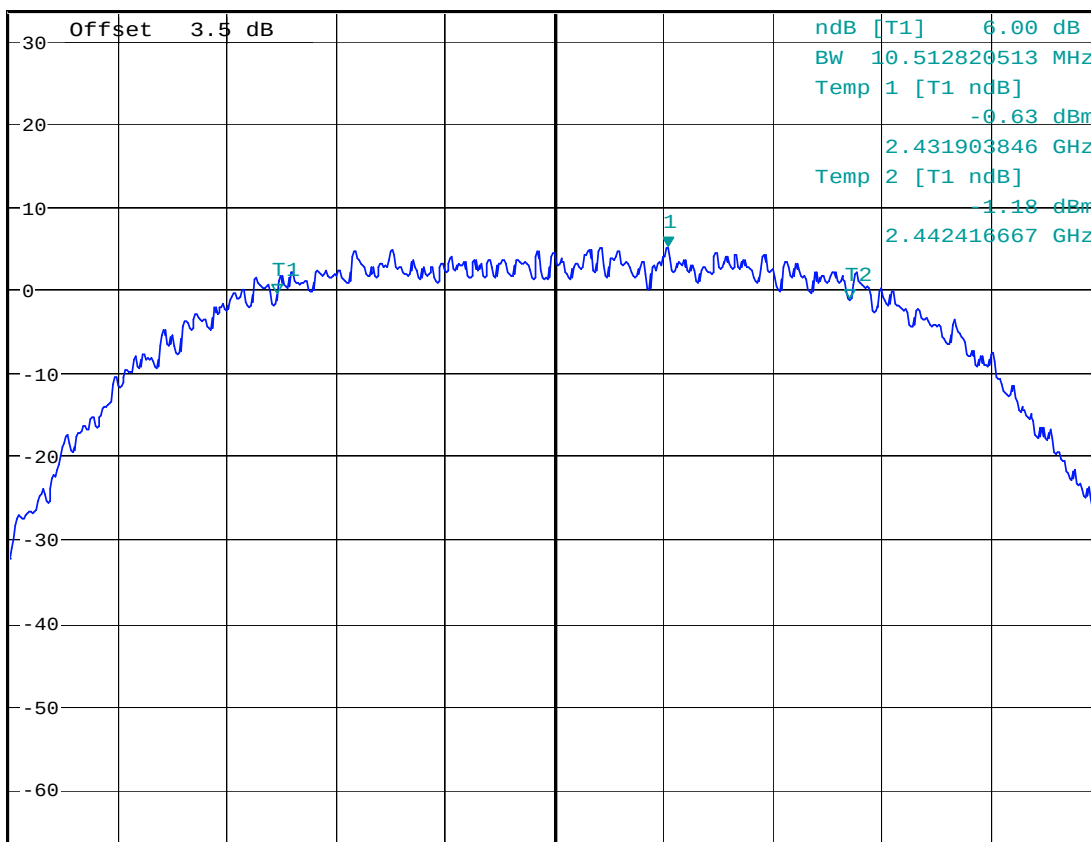
* SWT 200 ms

2.439083333 GHz

Ref 33.5 dBm

* Att 30 dB

1 PK
MAXH



A

LVL

Center 2.437 GHz

2 MHz/

Span 20 MHz

11B 6dB BANDWIDTH CH6

Date: 8.APR.2006 11:38:24



* RBW 100 kHz

Marker 1 [T1]

* VBW 100 kHz

4.71 dBm

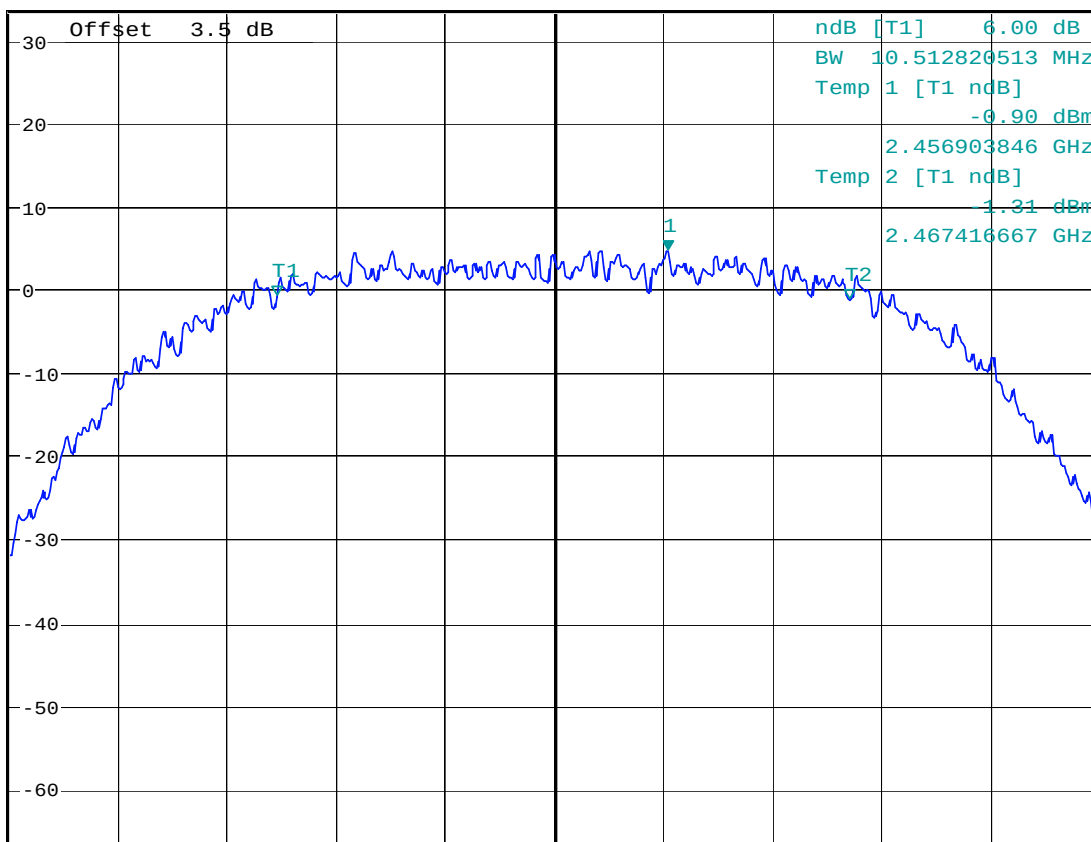
* SWT 200 ms

2.464083333 GHz

Ref 33.5 dBm

* Att 30 dB

1 PK
MAXH



Center 2.462 GHz

2 MHz/

Span 20 MHz

11B 6dB BANDWIDTH CH11

Date: 8.APR.2006 11:38:50



Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix E

Peak Power Spectral Density

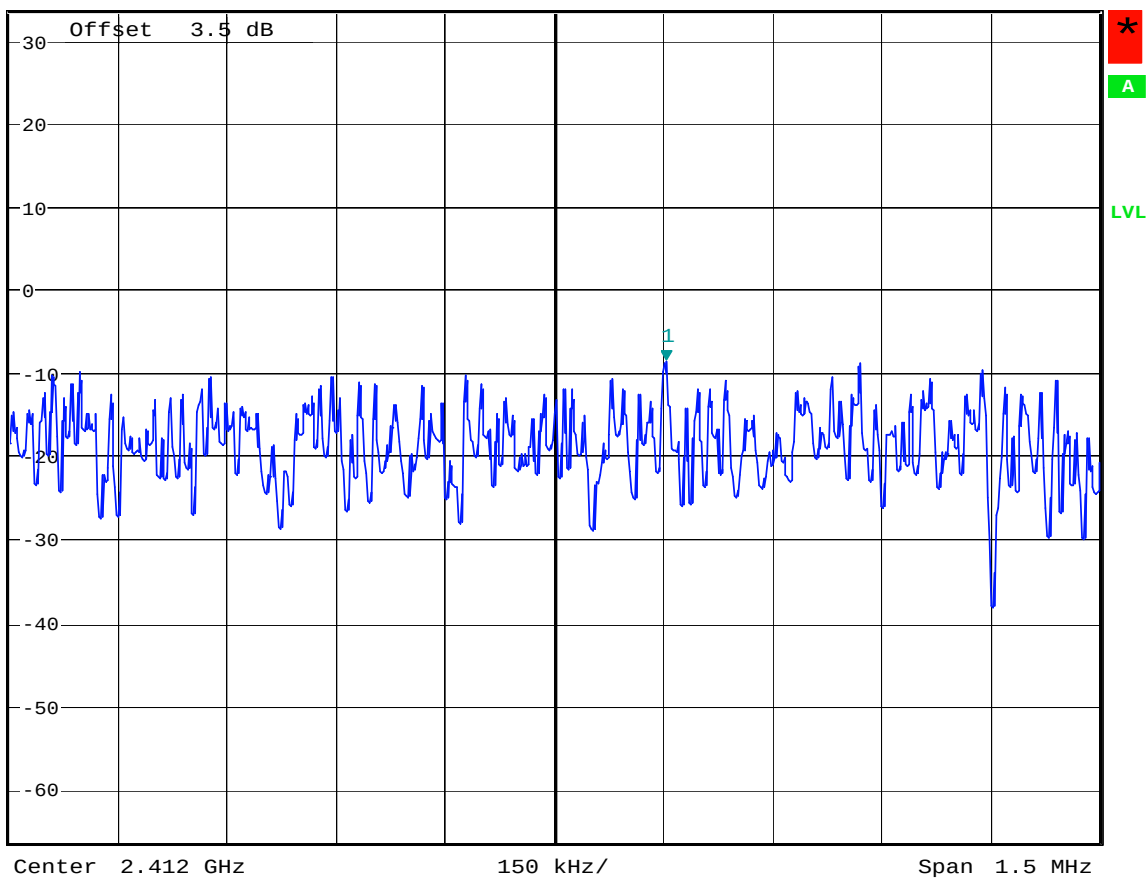


* RBW 3 kHz
* VBW 100 kHz
* SWT 500 s

Marker 1 [T1]
-8.69 dBm
2.412153846 GHz

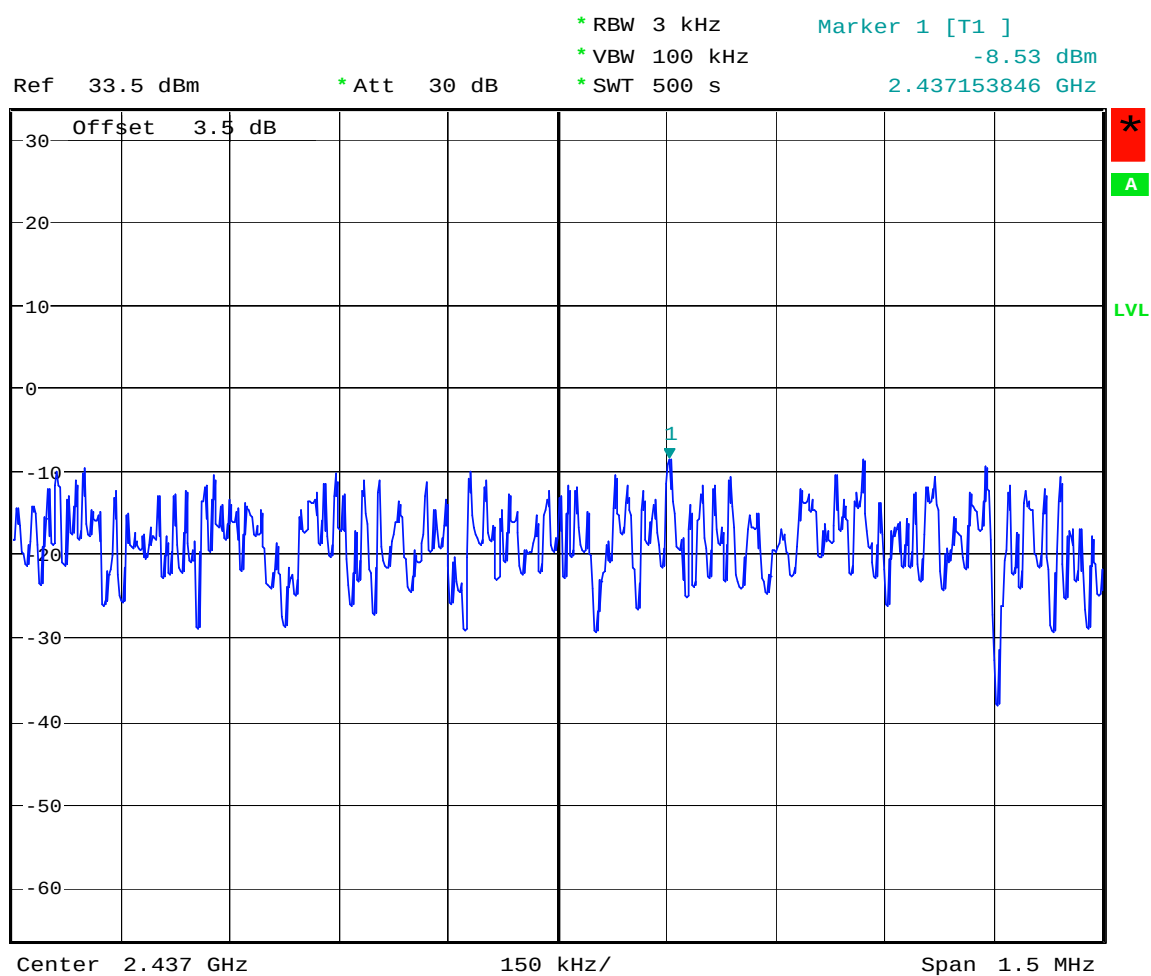
Ref 33.5 dBm
* Att 30 dB

1 PK
MAXH



11B POWER DENSITY CH1

Date: 8.APR.2006 11:46:39



Date: 8.APR.2006 11:45:05

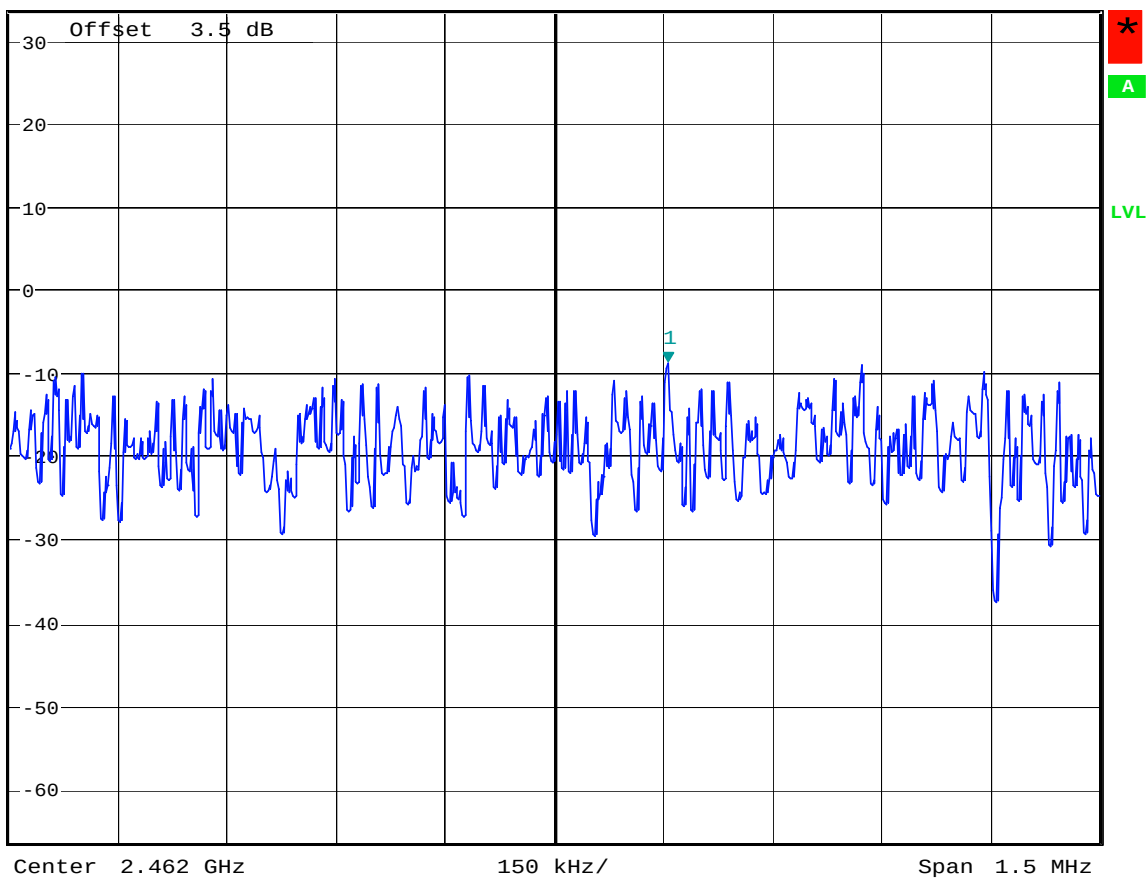


* RBW 3 kHz
* VBW 100 kHz
* SWT 500 s

Marker 1 [T1]
-8.88 dBm
2.462156250 GHz

Ref 33.5 dBm
* Att 30 dB

1 PK
MAXH



11B POWER DENSITY CH11

Date: 8.APR.2006 11:40:06



Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix F

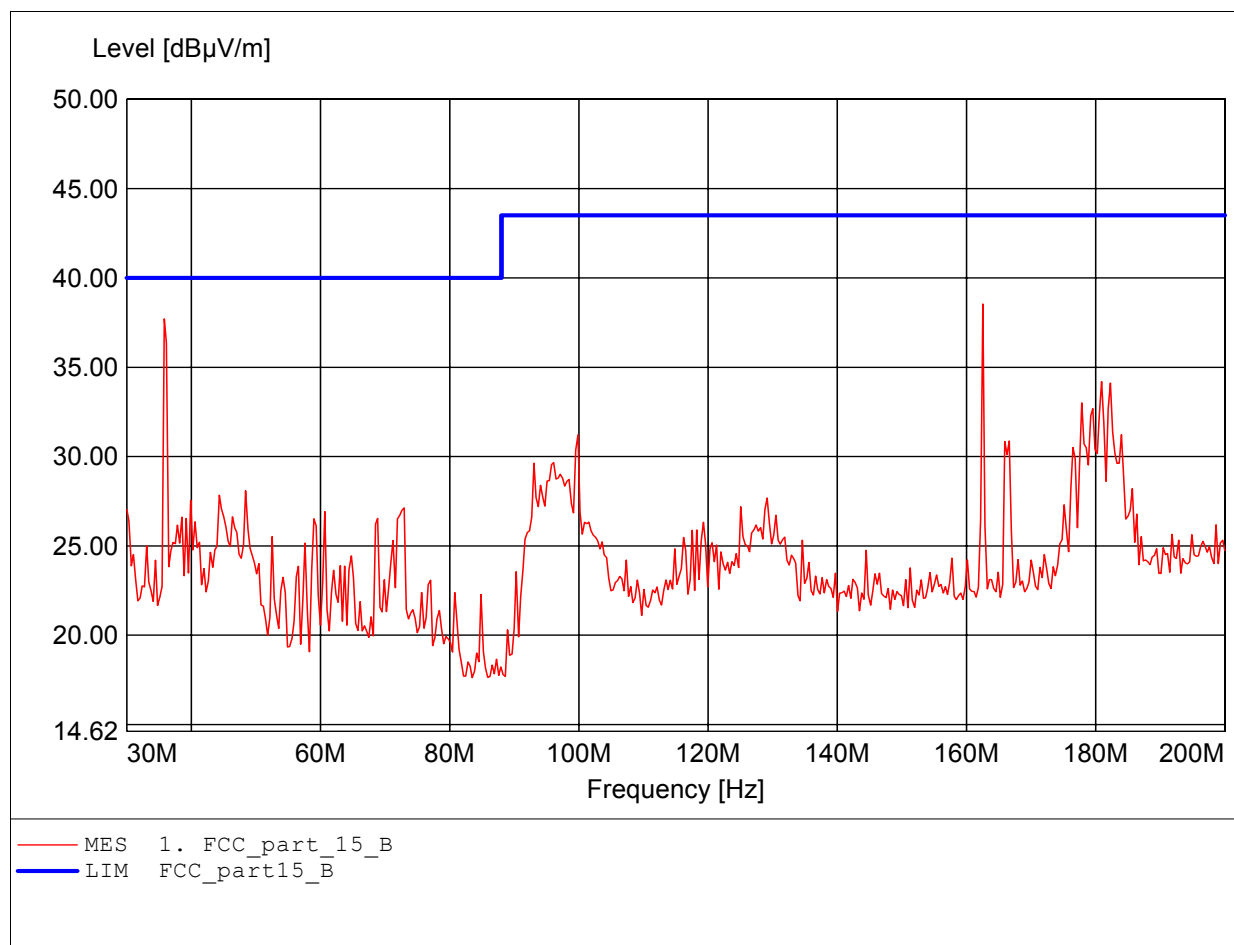
Radiated Emissions from Receiver Section of Transceiver

The measurement diagrams are wideband pre-scan results; only for reference. The final results are measured at OATS of 3 m. Please see final results as page 23 to 25.

Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

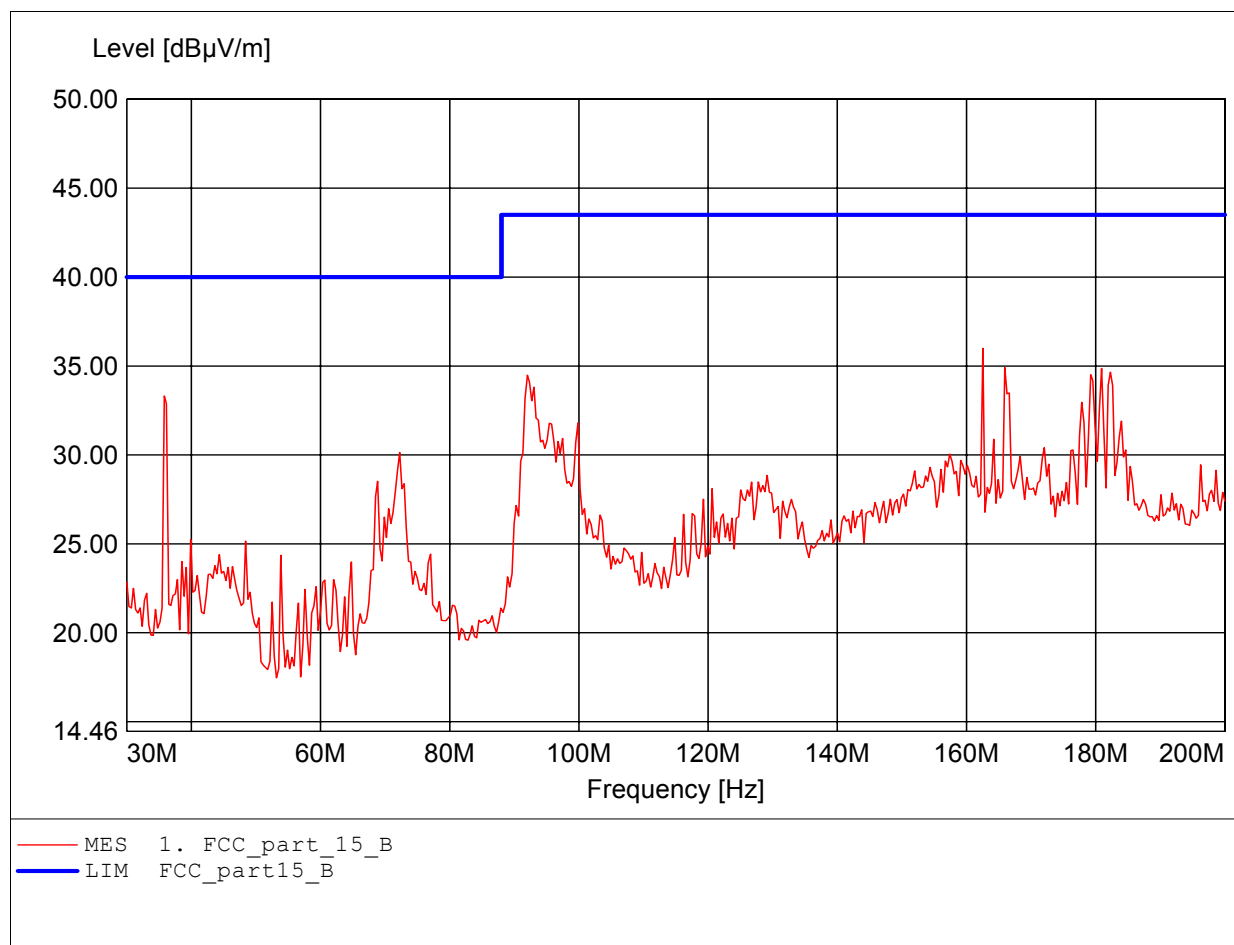
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:162.525MHz Emax:38.54dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

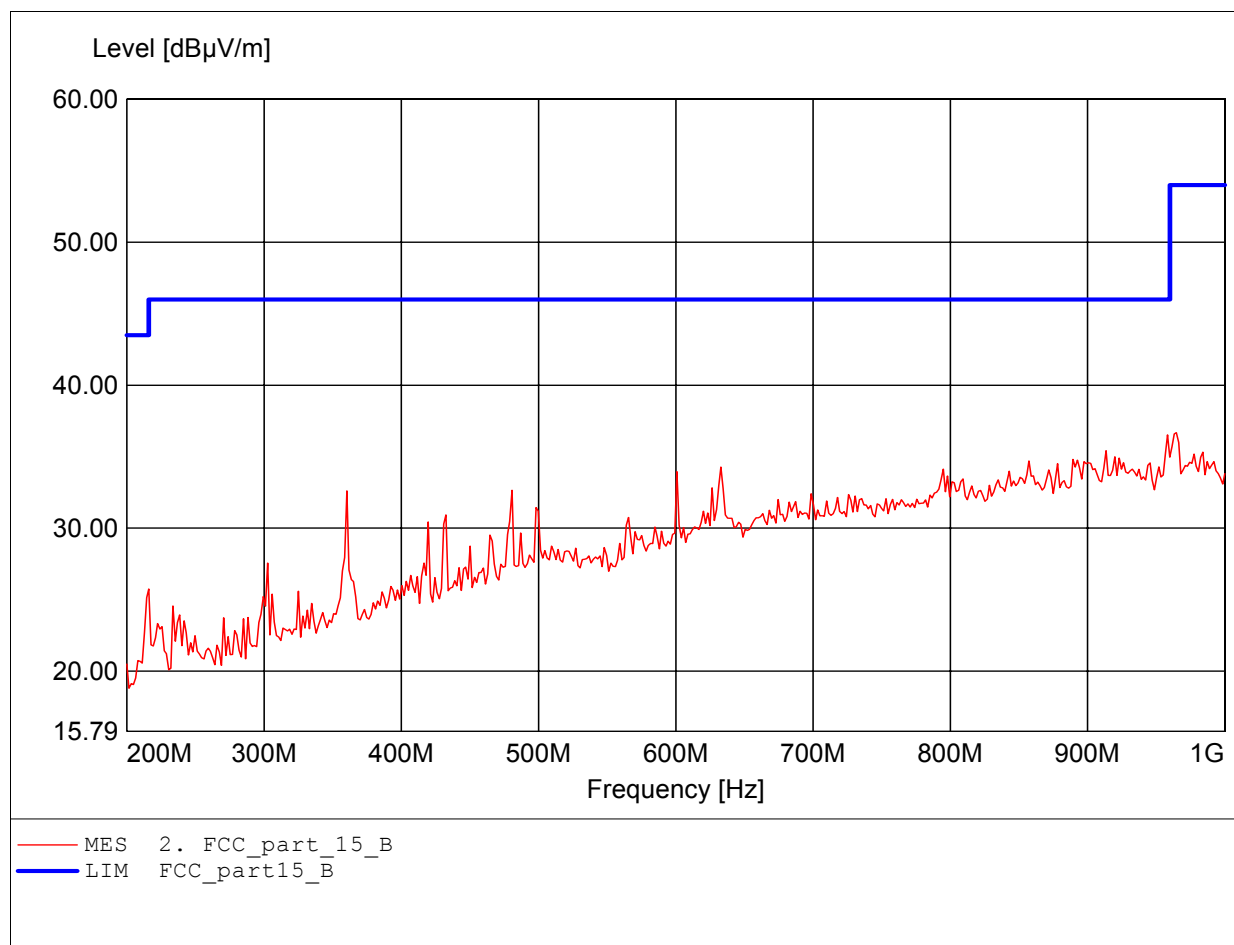
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:162.525MHz Emax:36.00dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

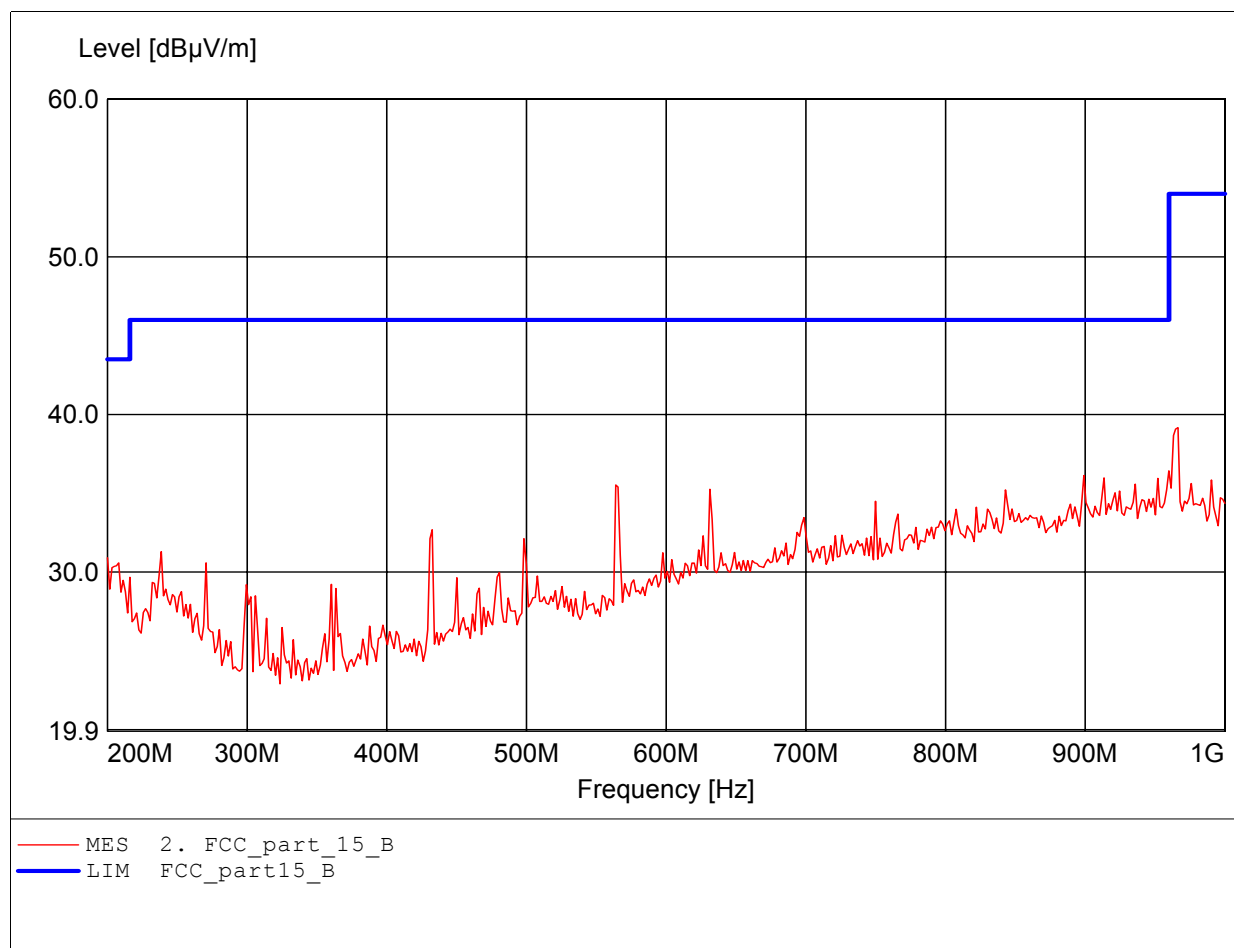
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:964.729MHz Emax:36.69dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

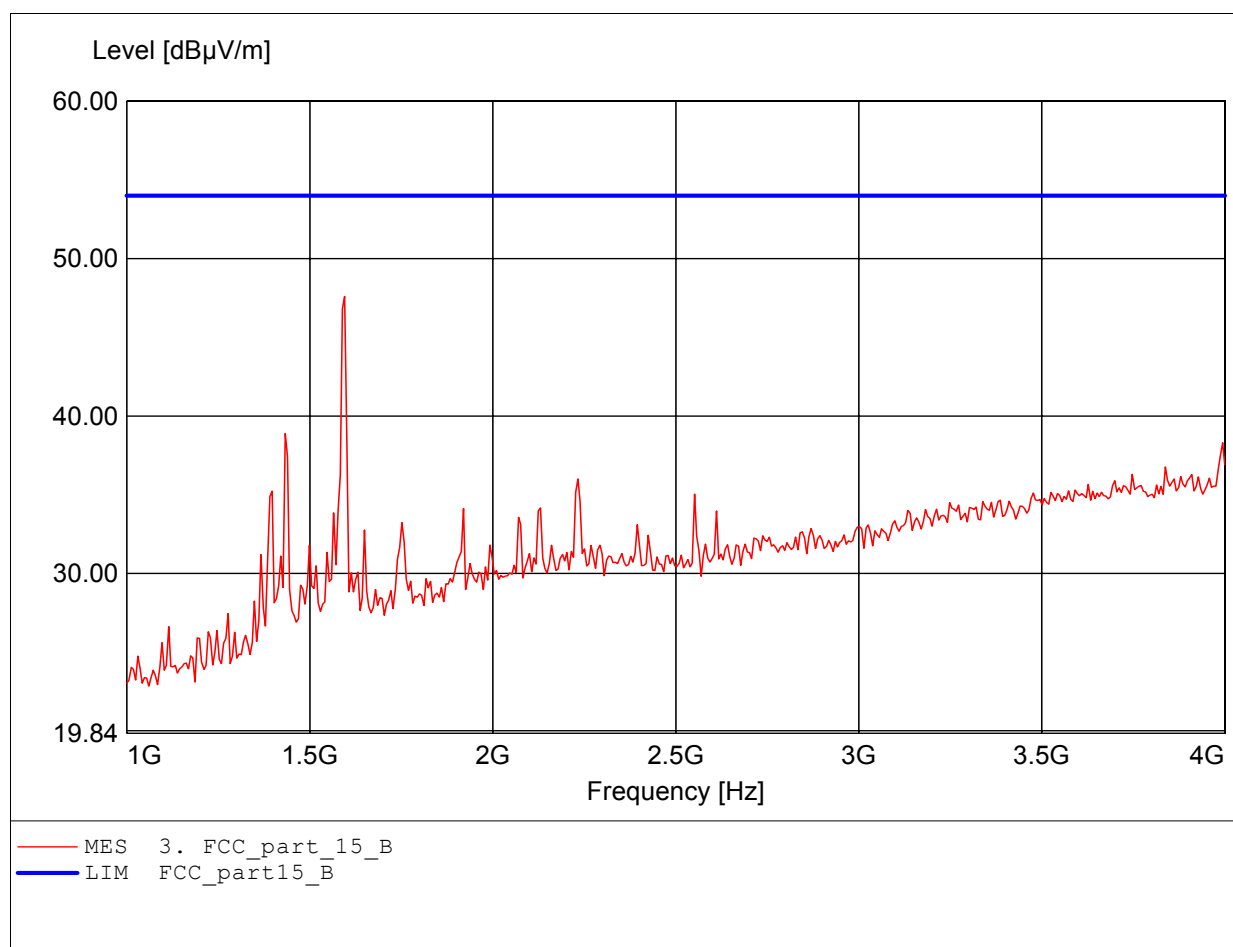
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:966.333MHz Emax:39.16dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

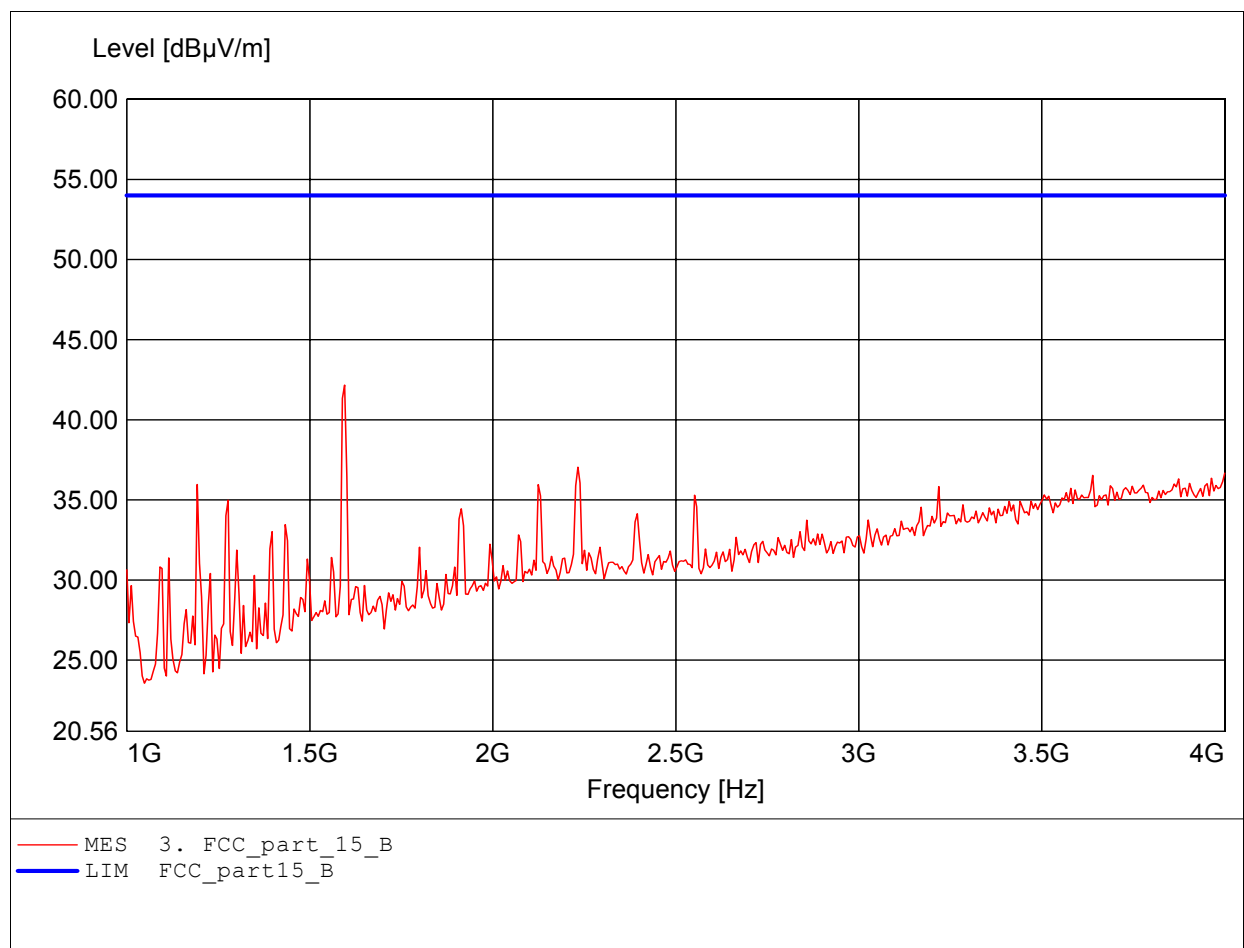
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:47.59dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

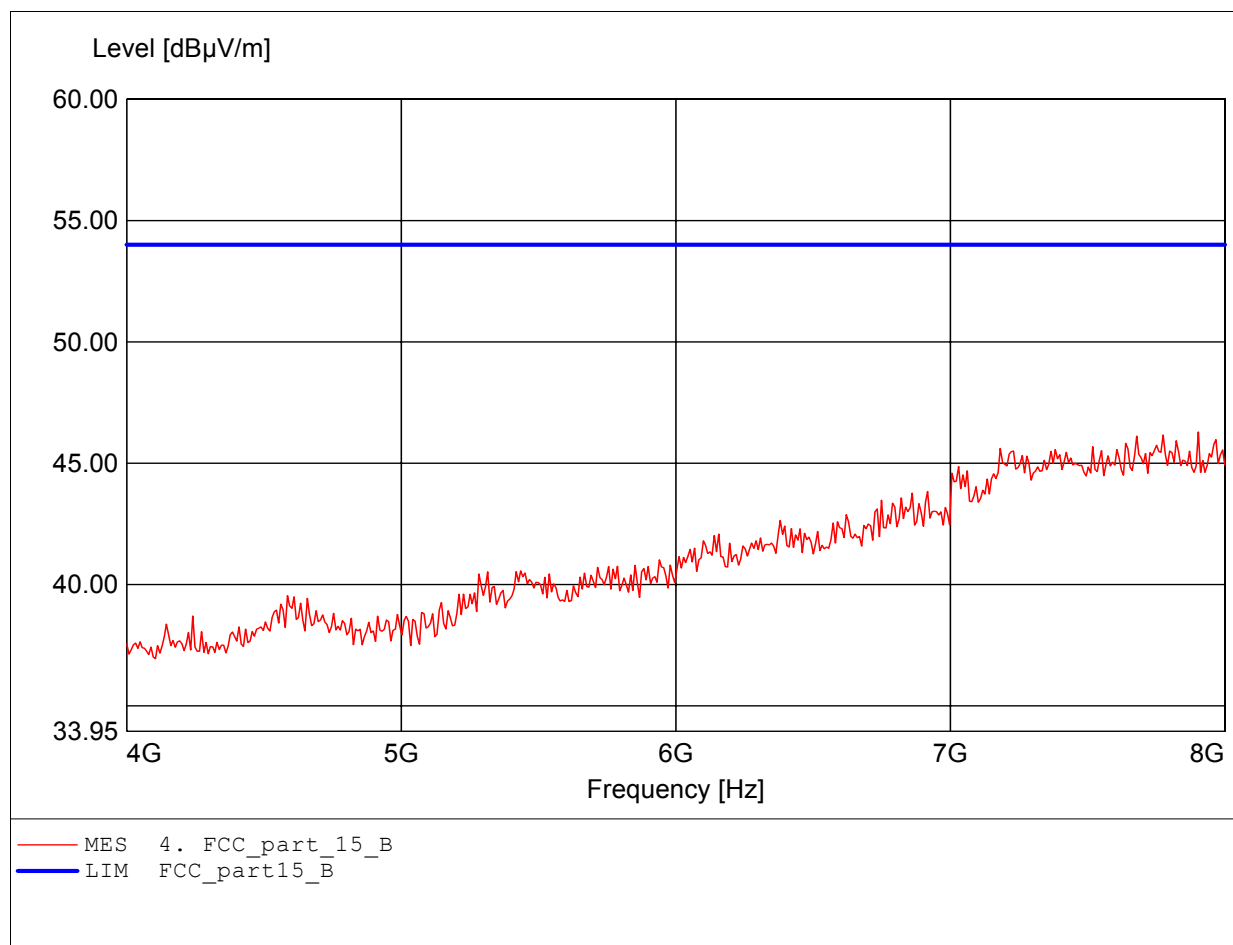
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:42.17dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

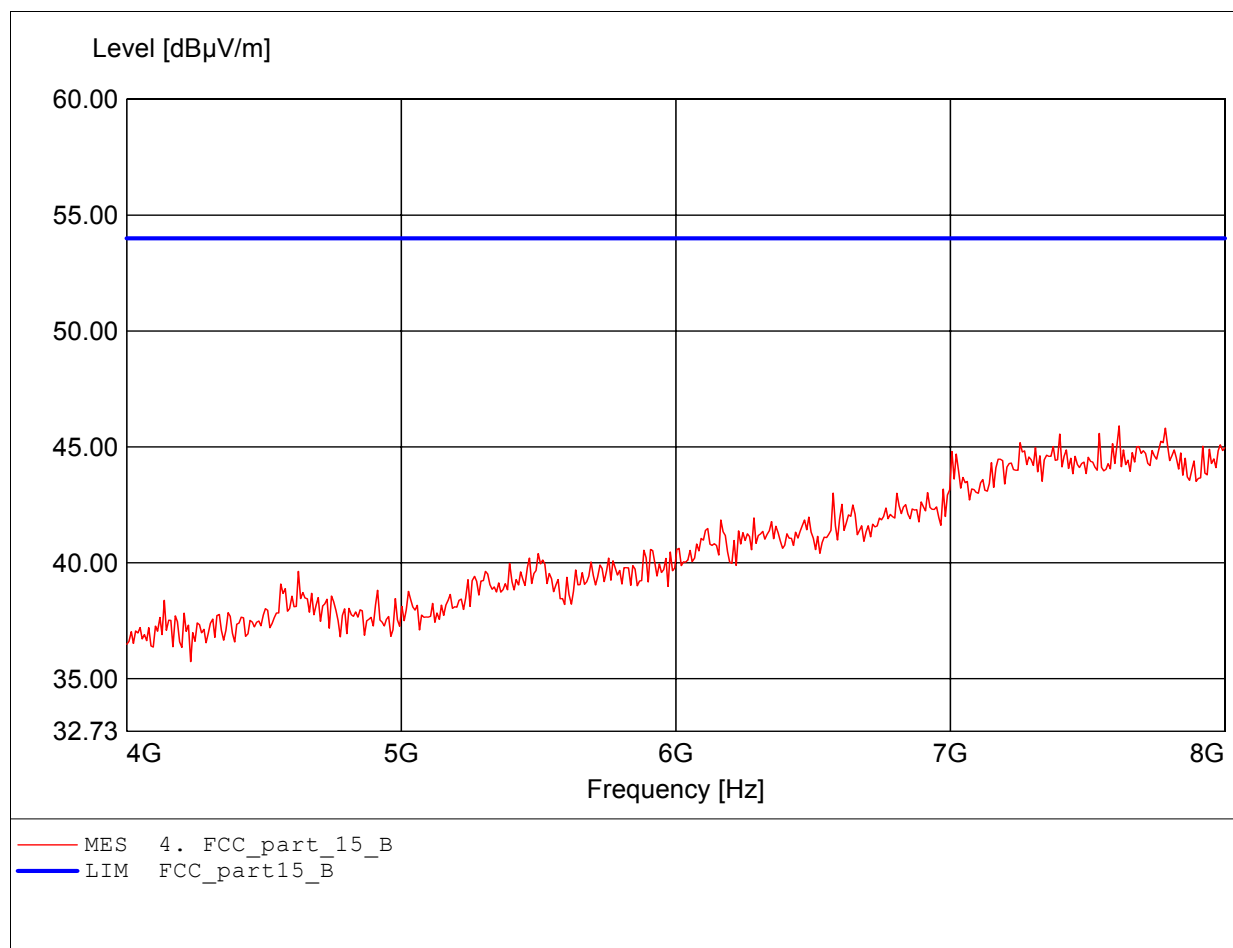
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.904GHz Emax:46.29dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

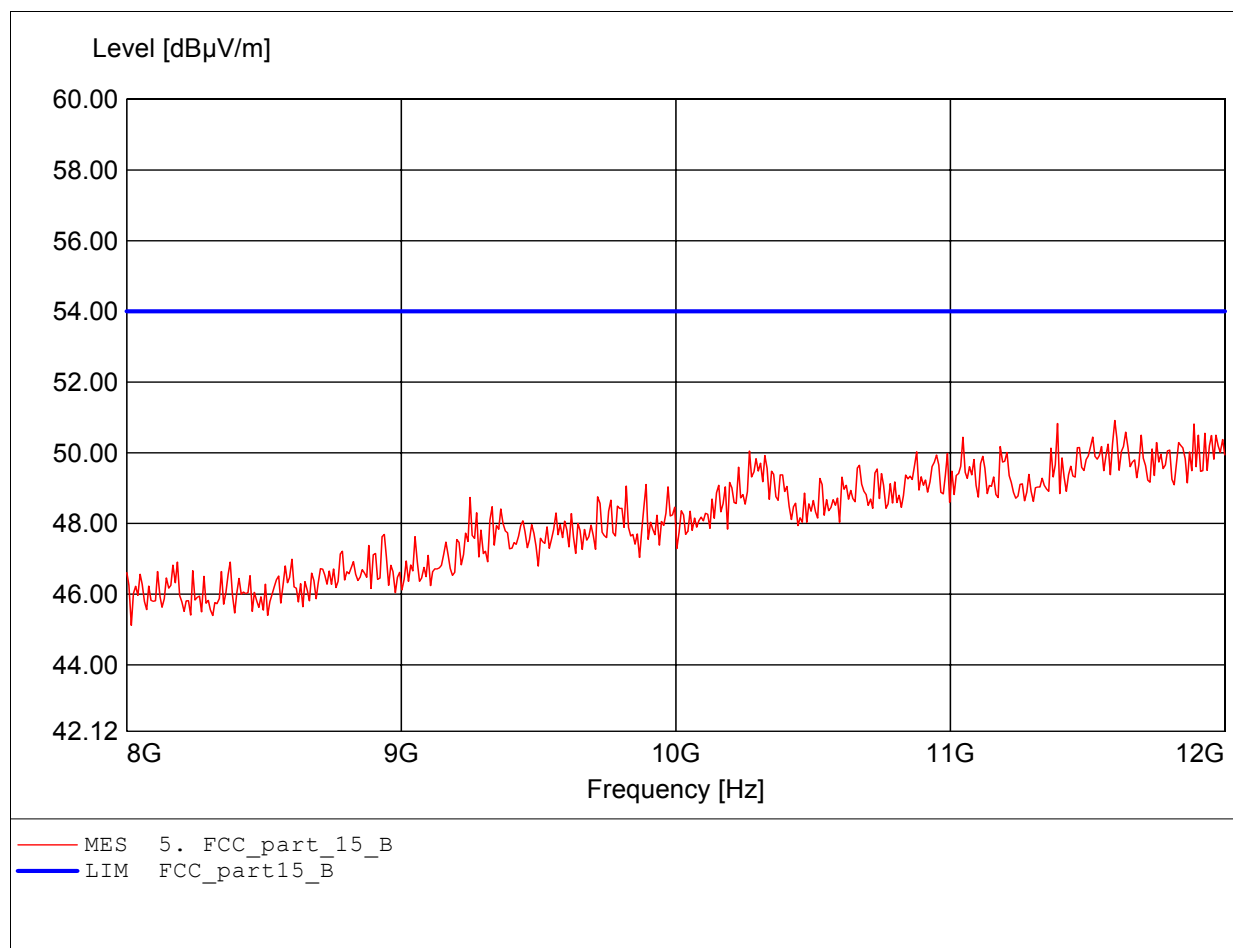
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.615GHz Emax:45.90dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

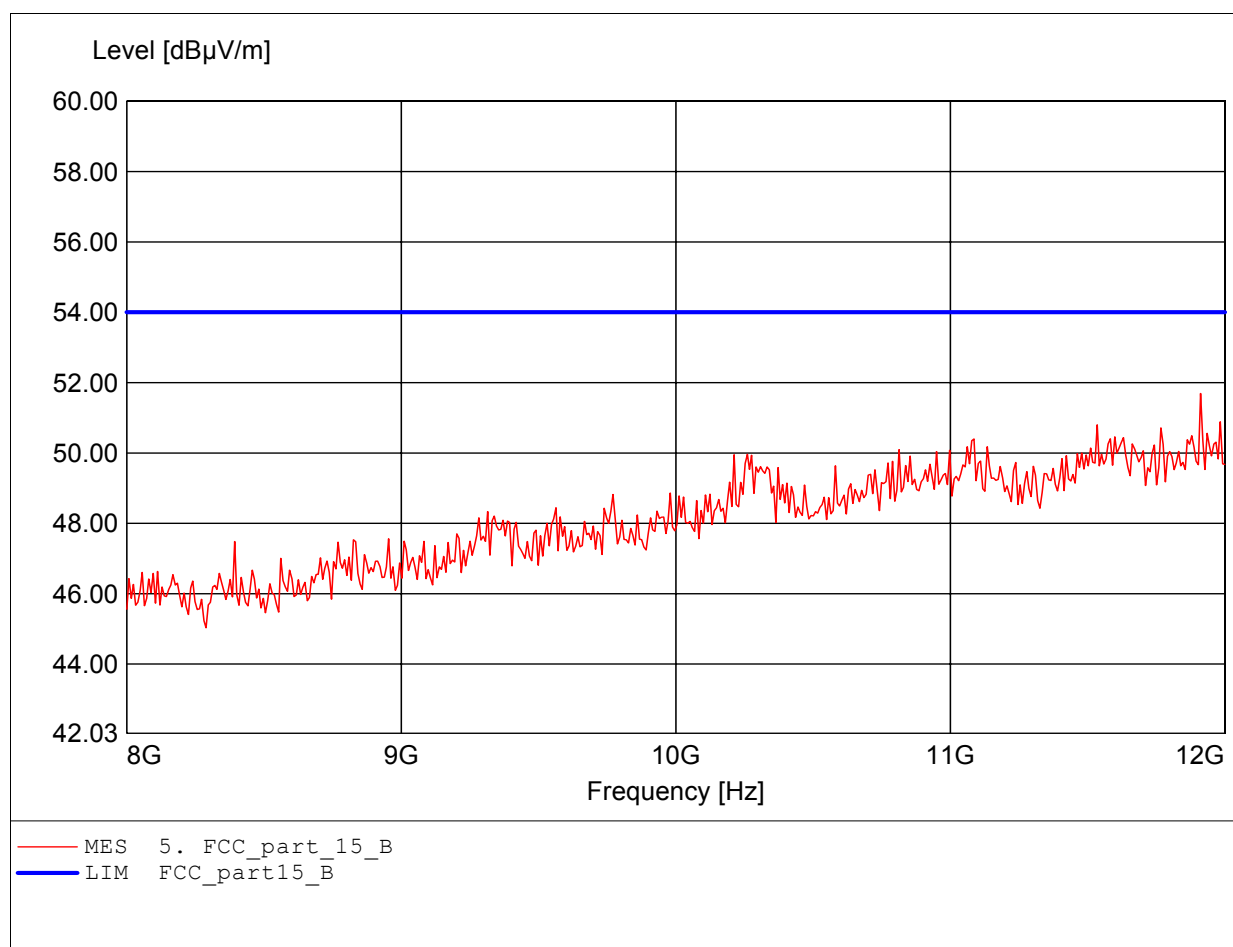
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.599GHz Emax:50.92dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

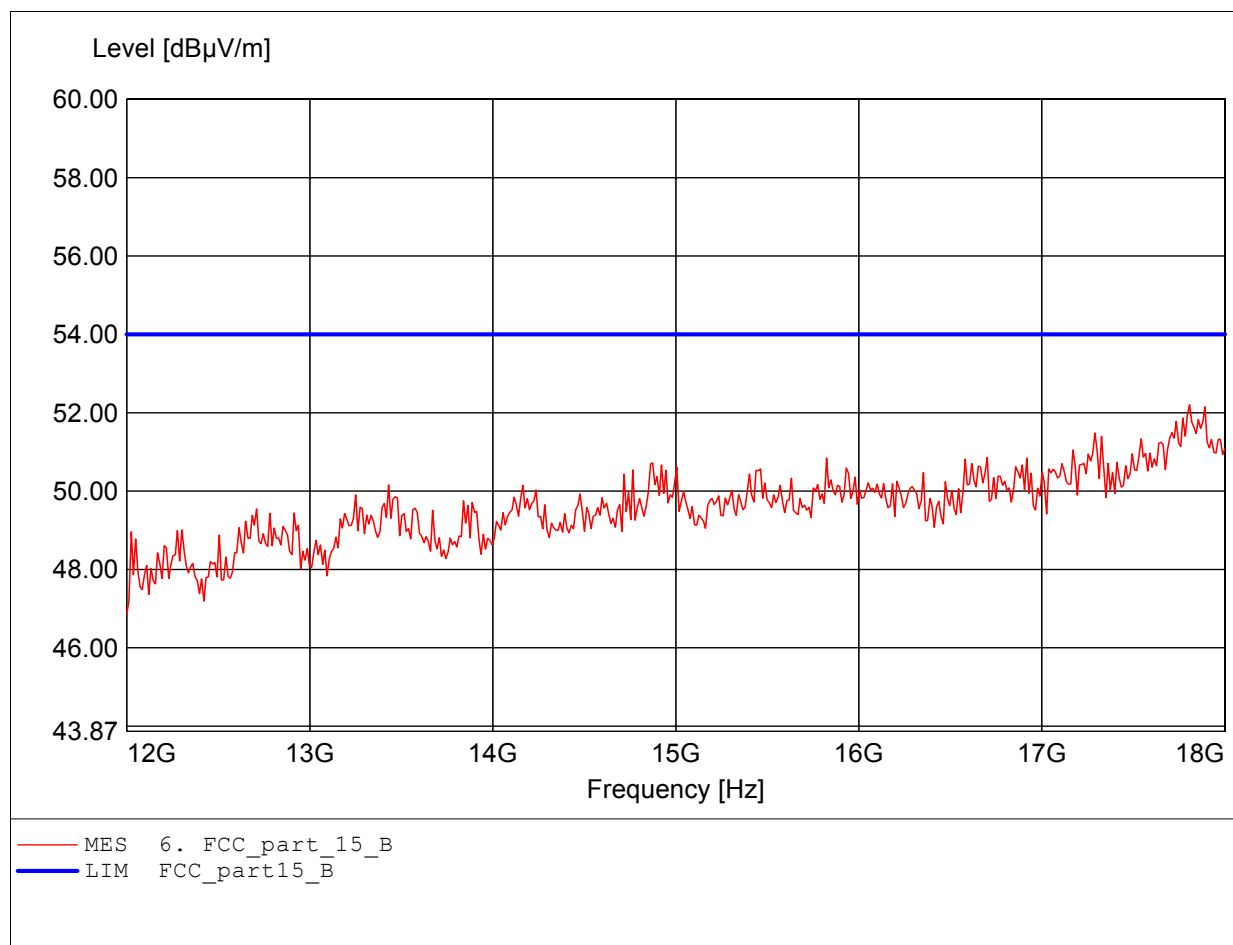
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.912GHz Emax:51.69dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

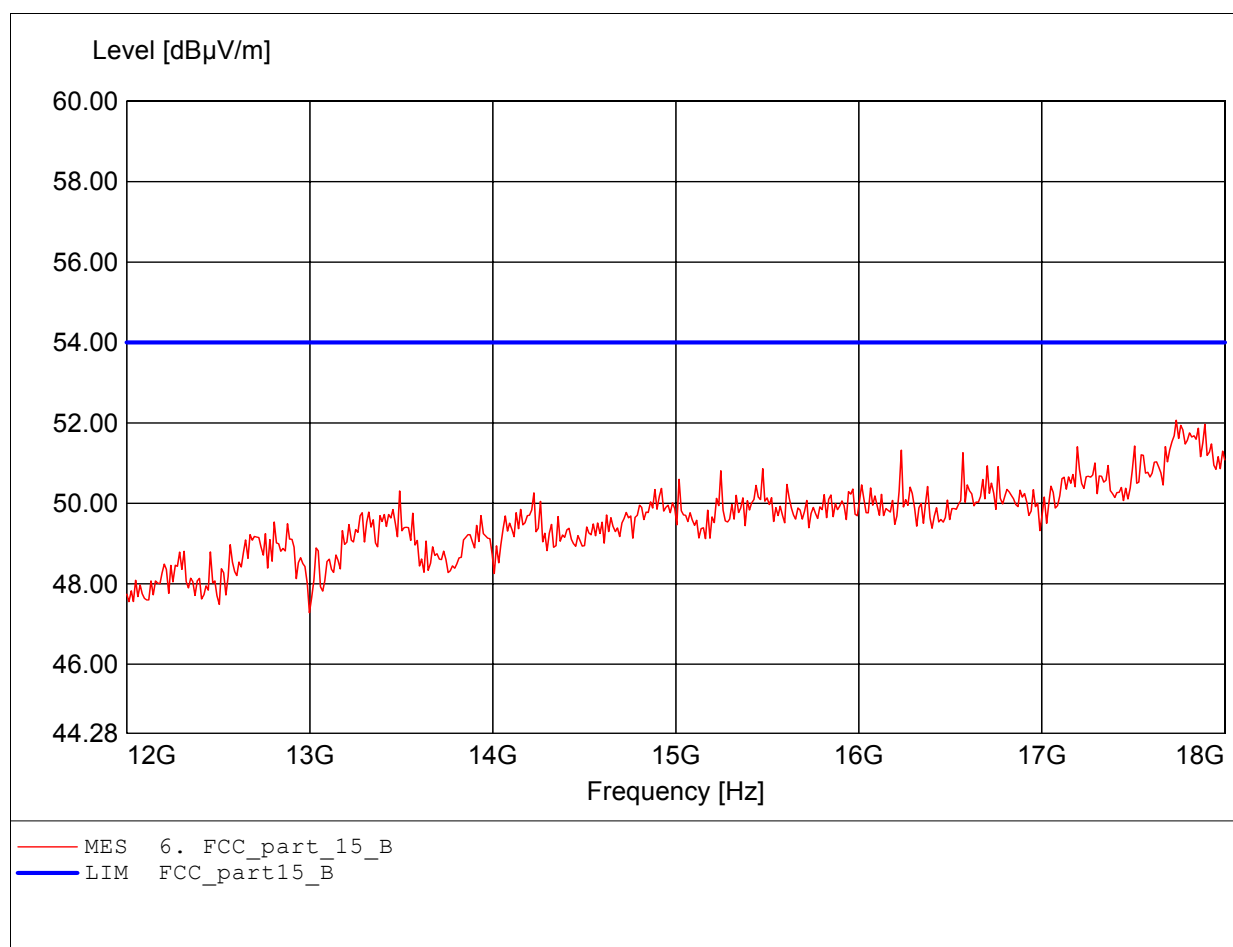
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.808GHz Emax:52.20dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

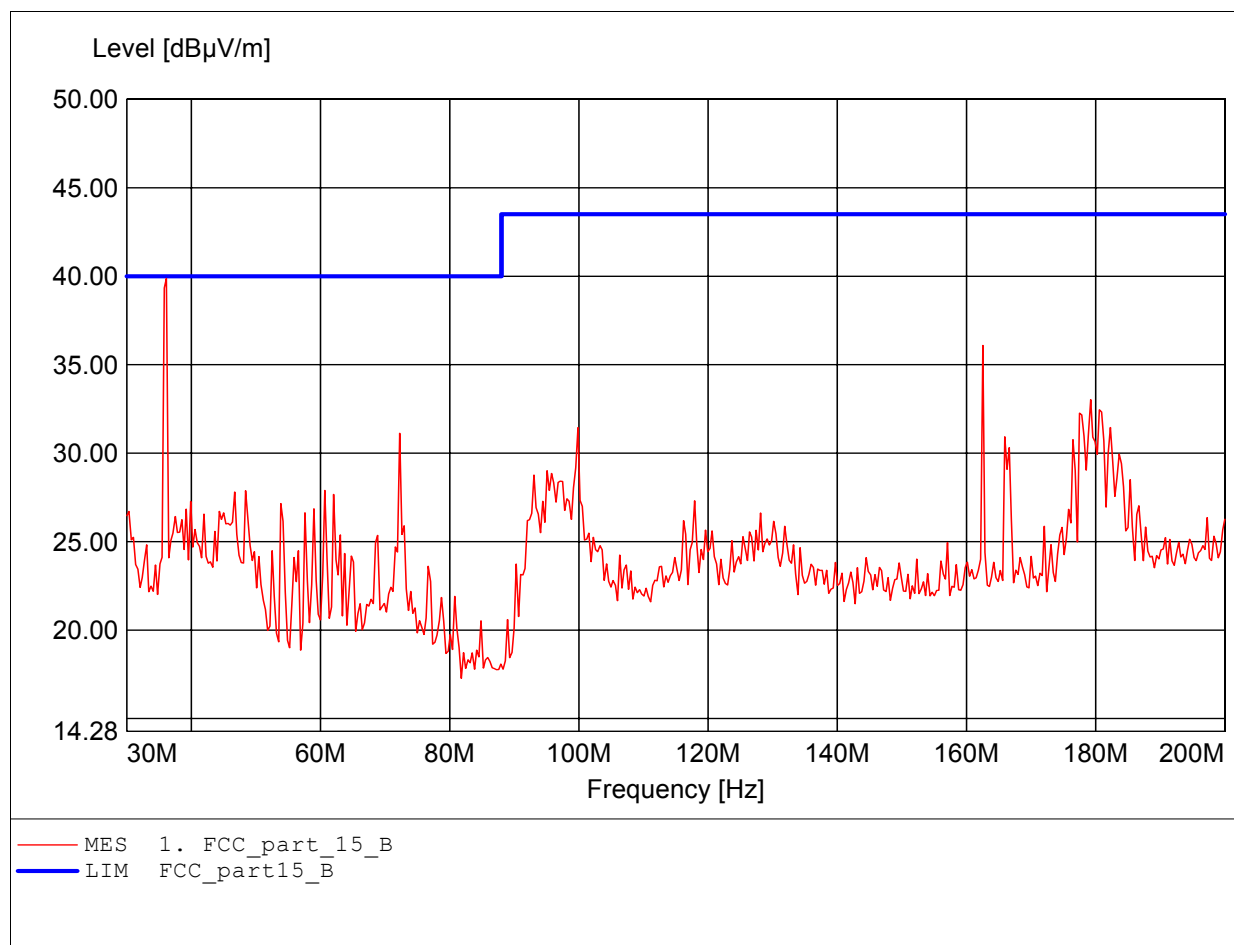
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 1
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.735GHz Emax:52.07dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

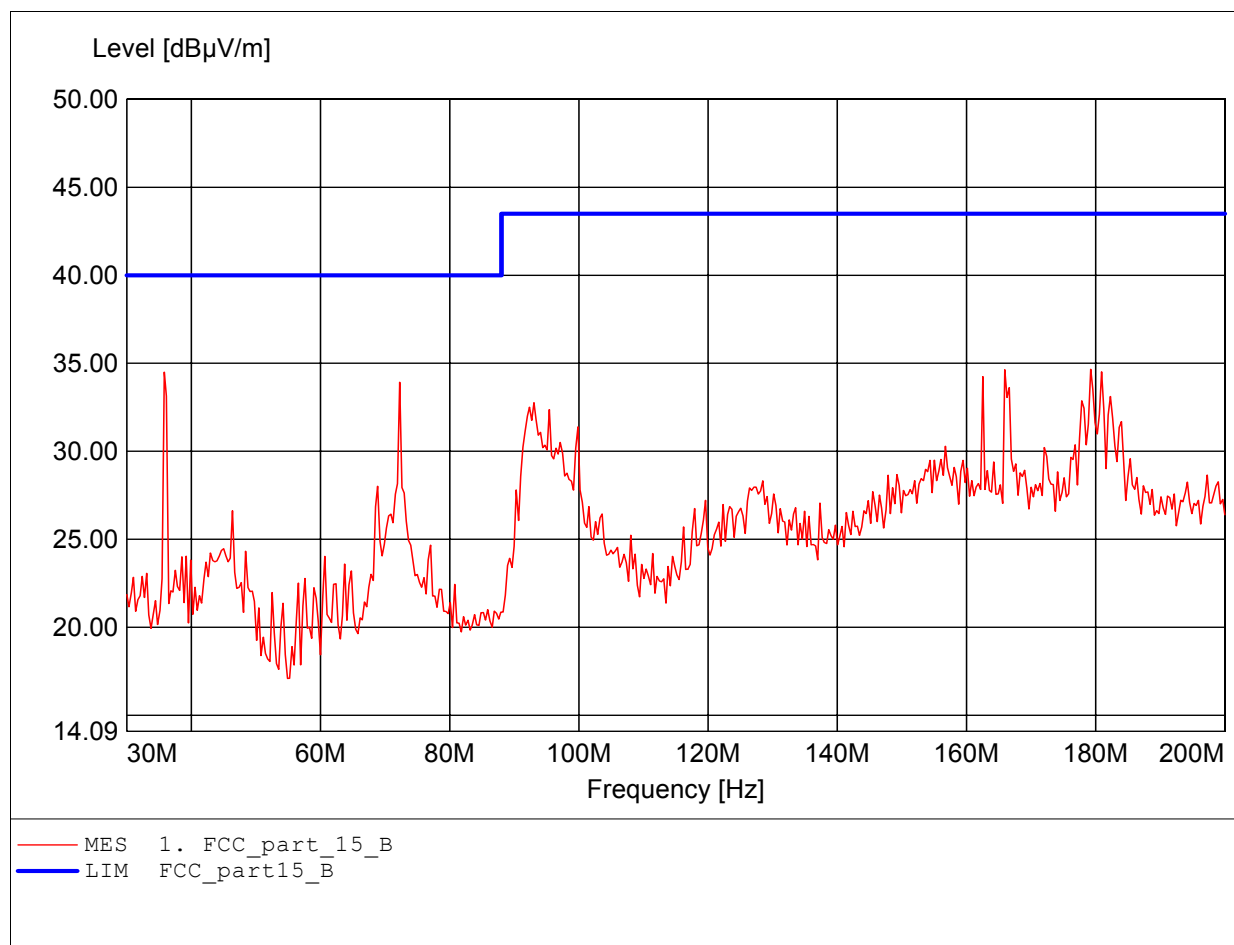
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:36.132MHz Emax:39.87dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

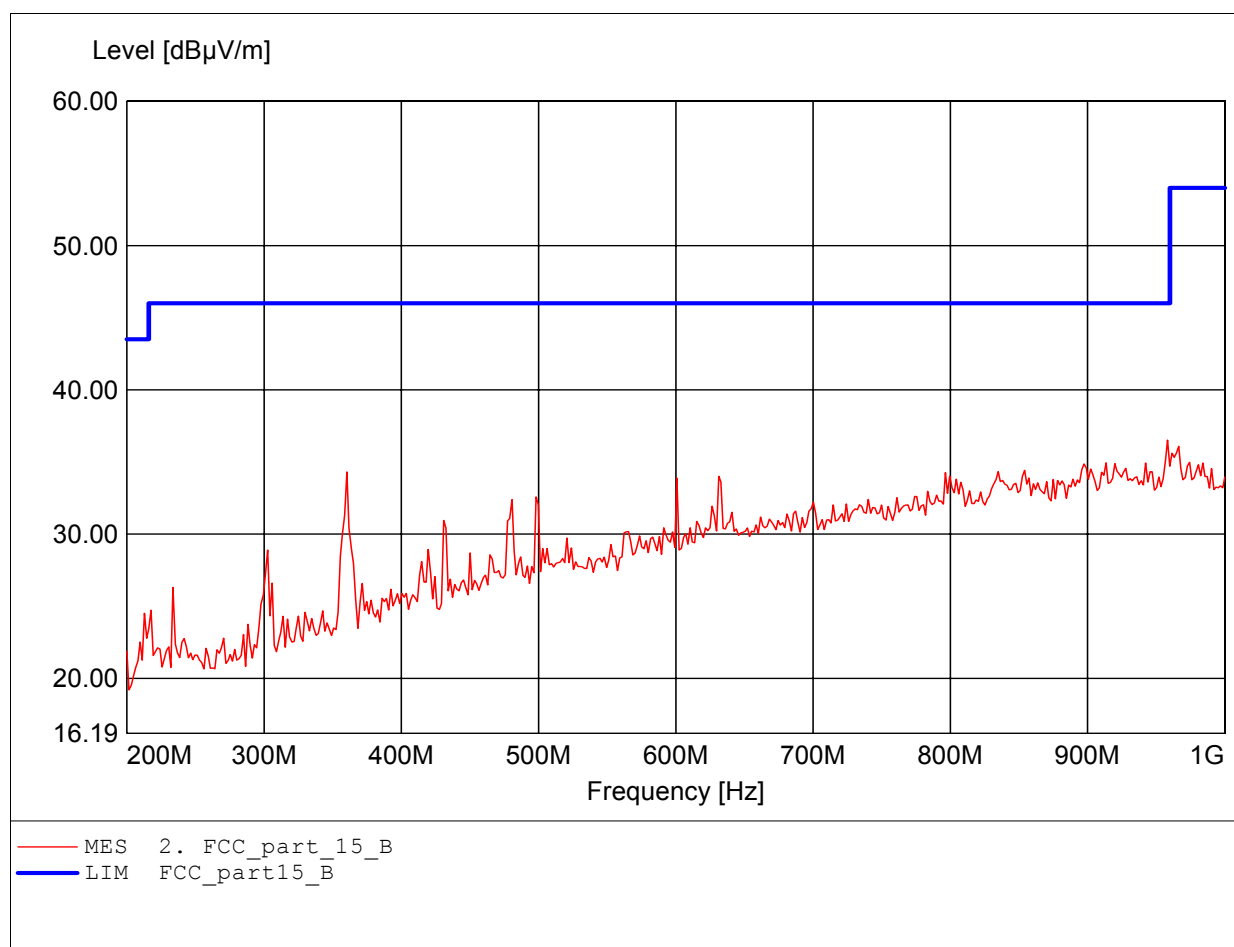
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:179.218MHz Emax:34.66dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

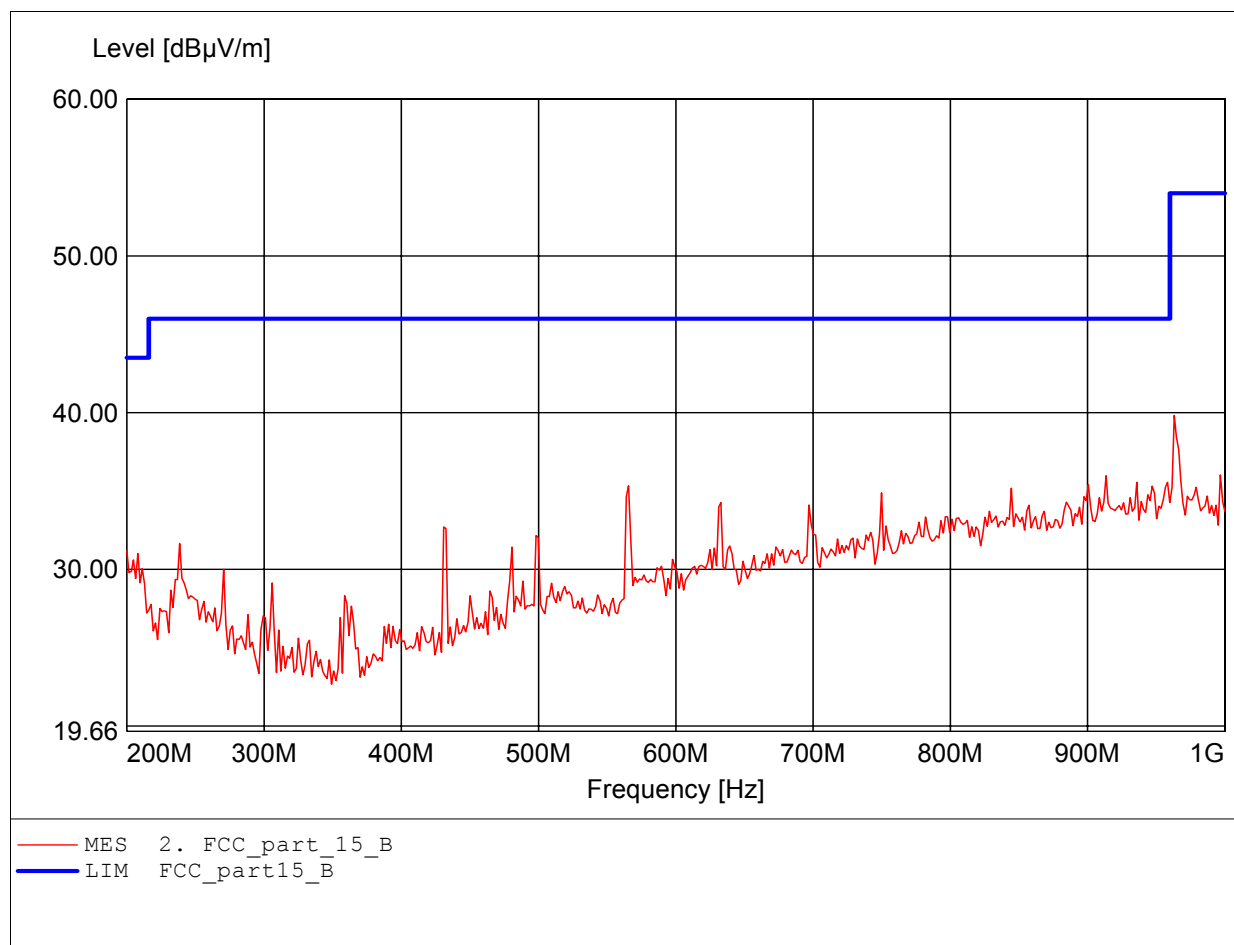
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq: 958.317MHz Emax: 36.51dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

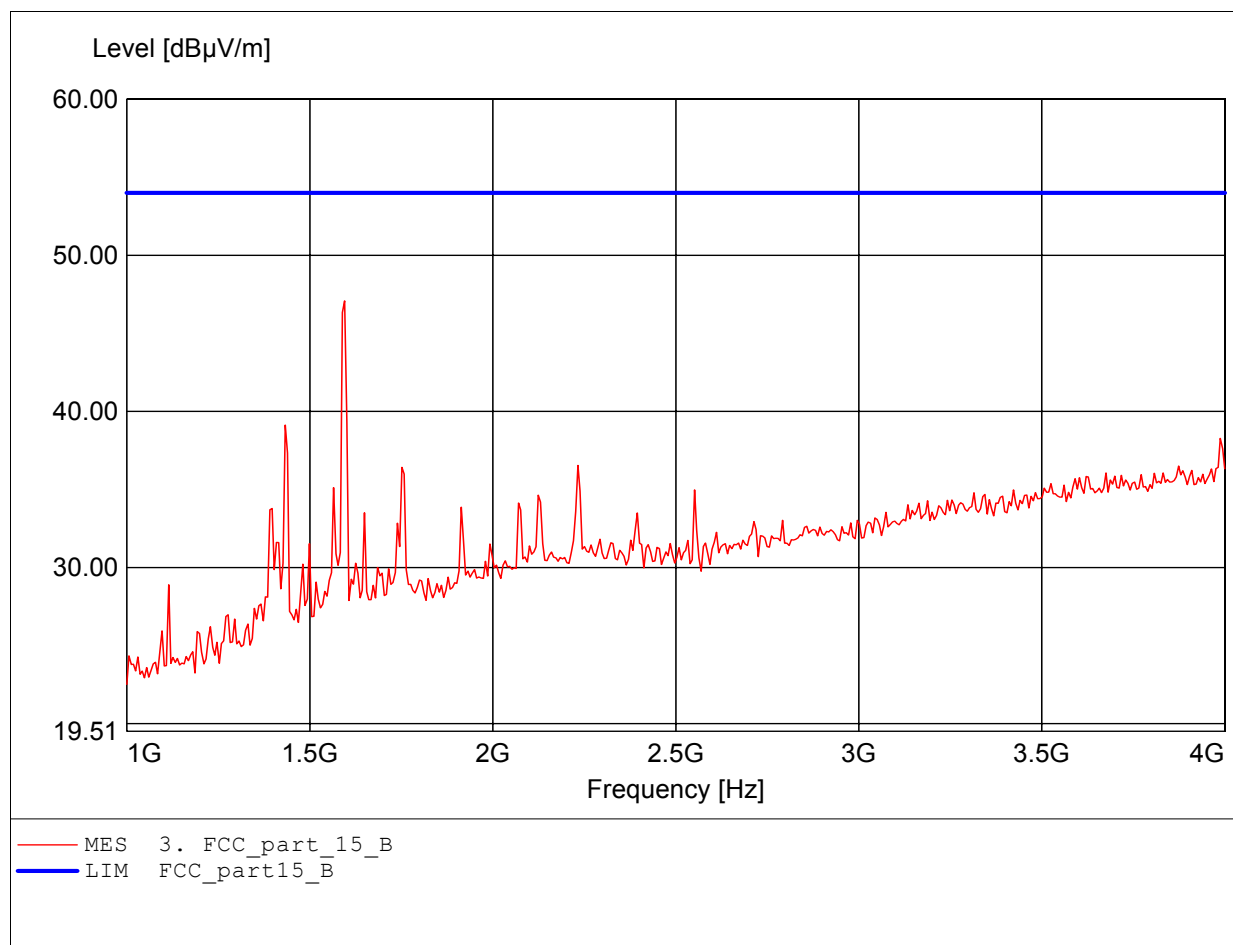
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:963.126MHz Emax:39.83dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

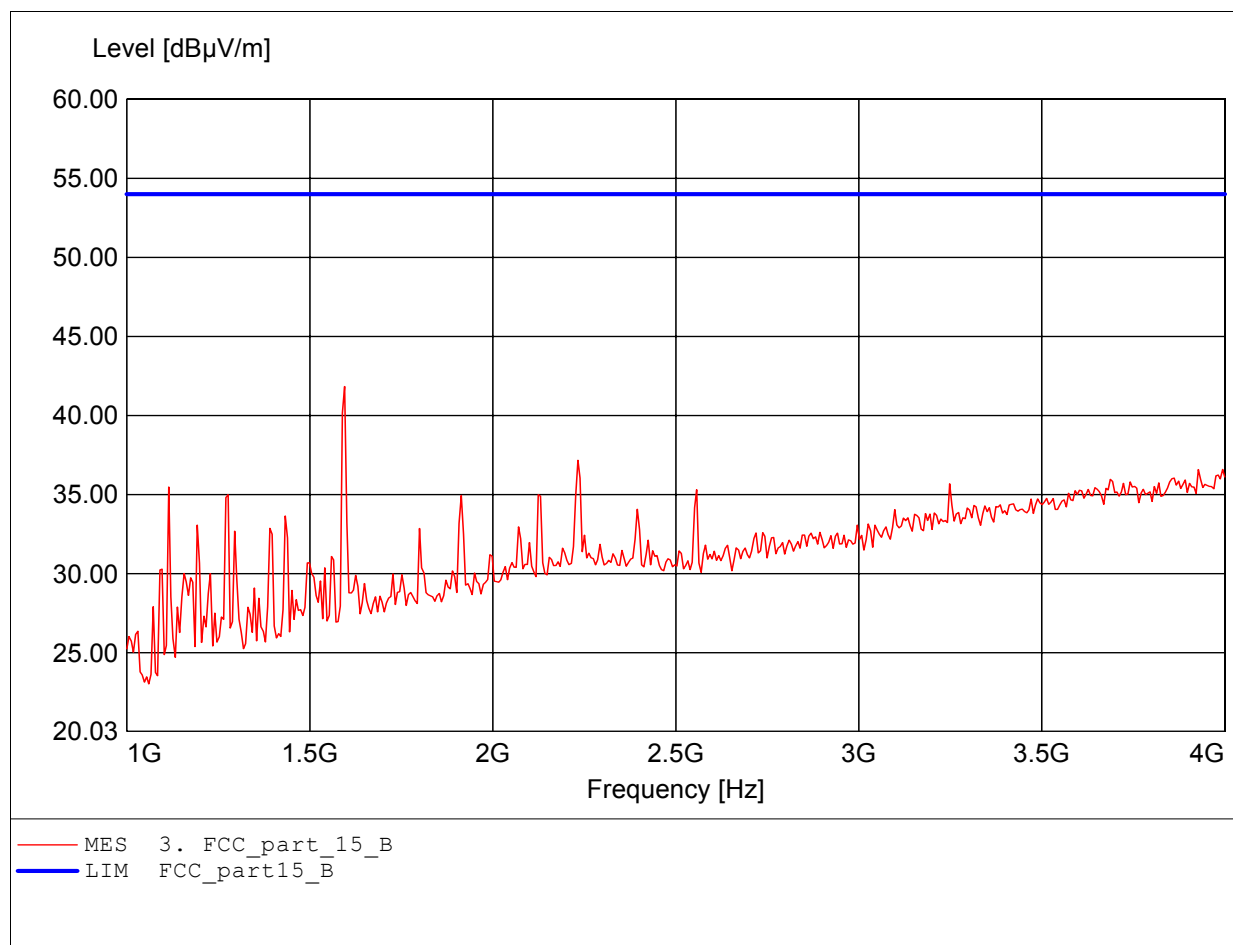
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:47.08dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

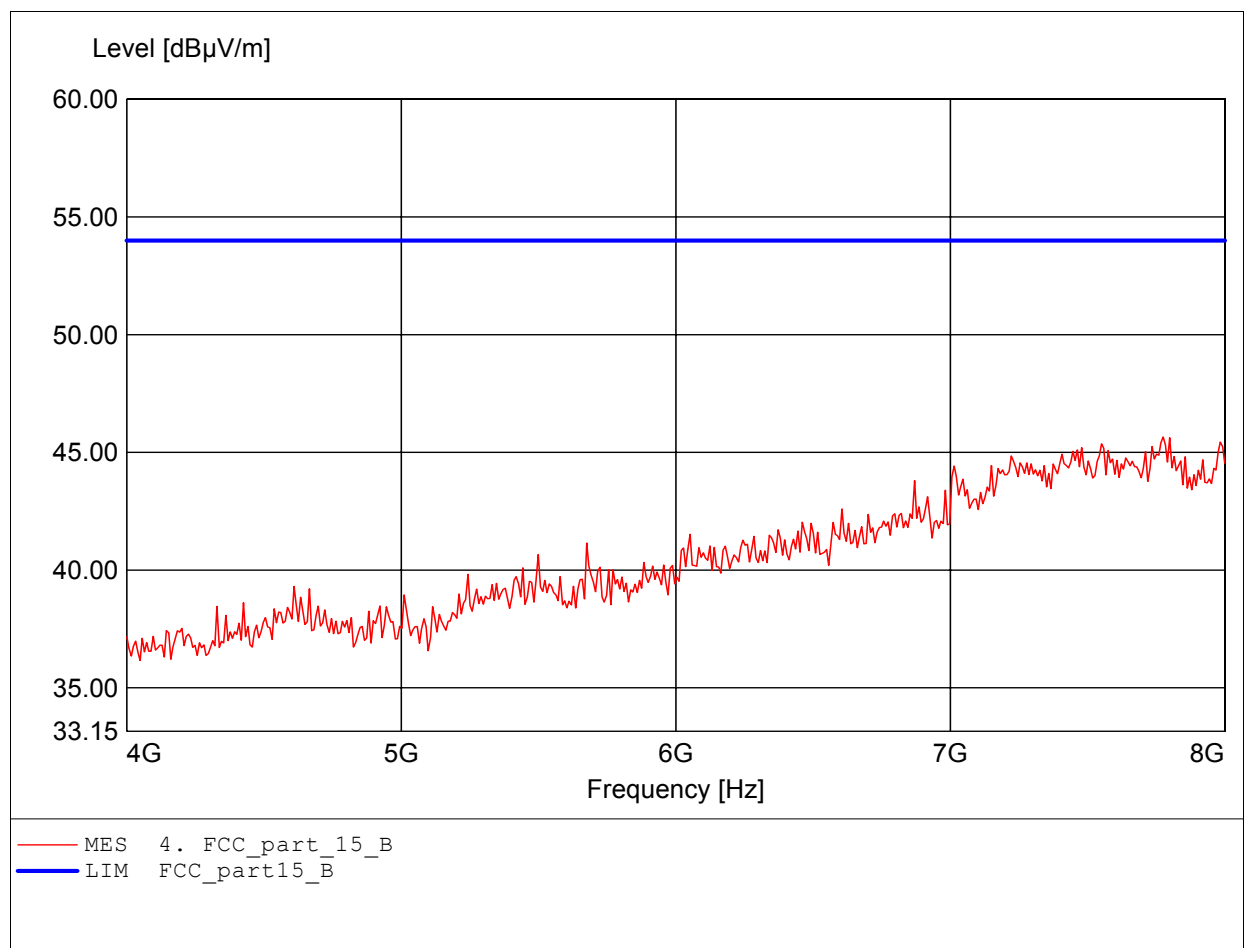
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:41.83dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

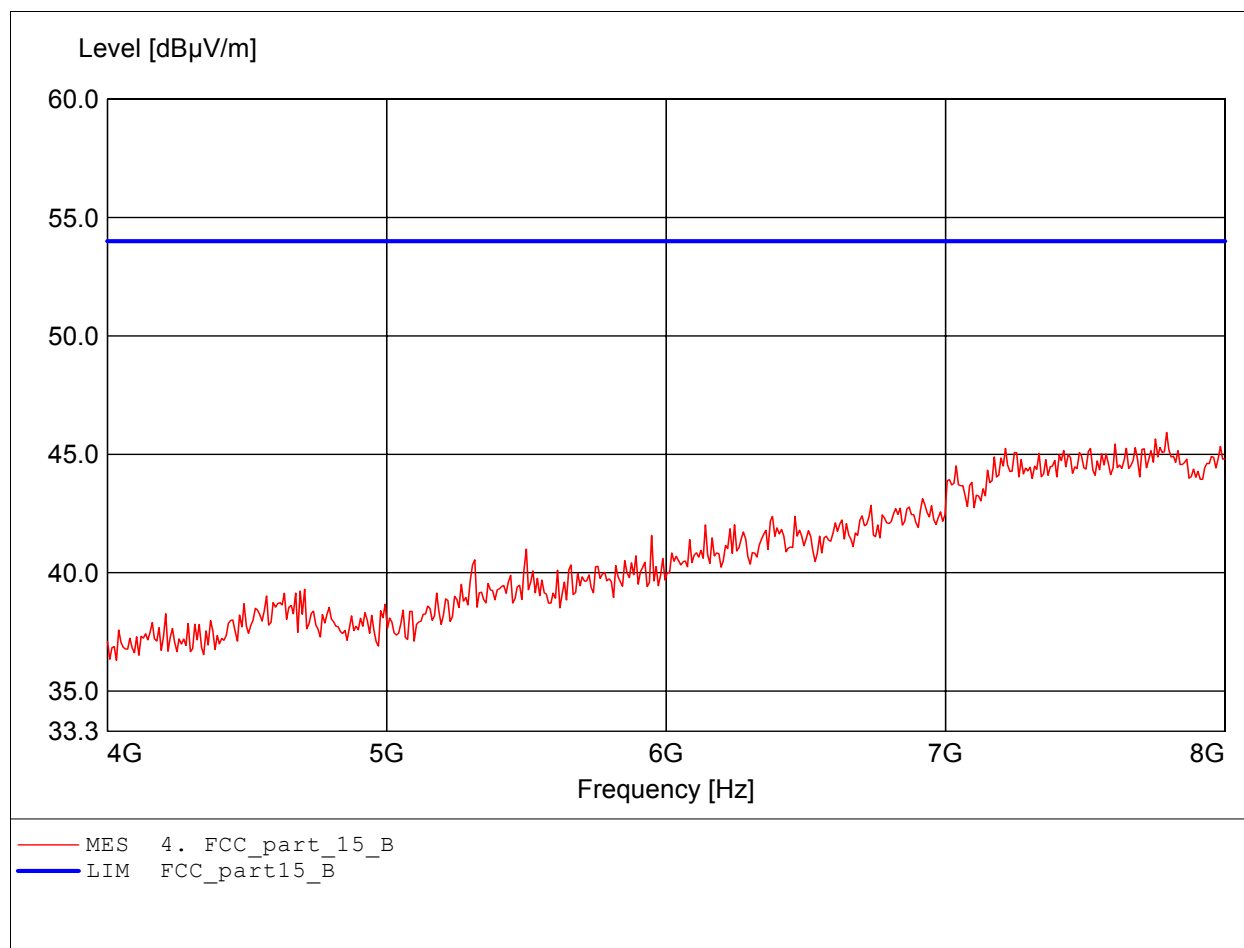
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.776GHz Emax:45.65dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

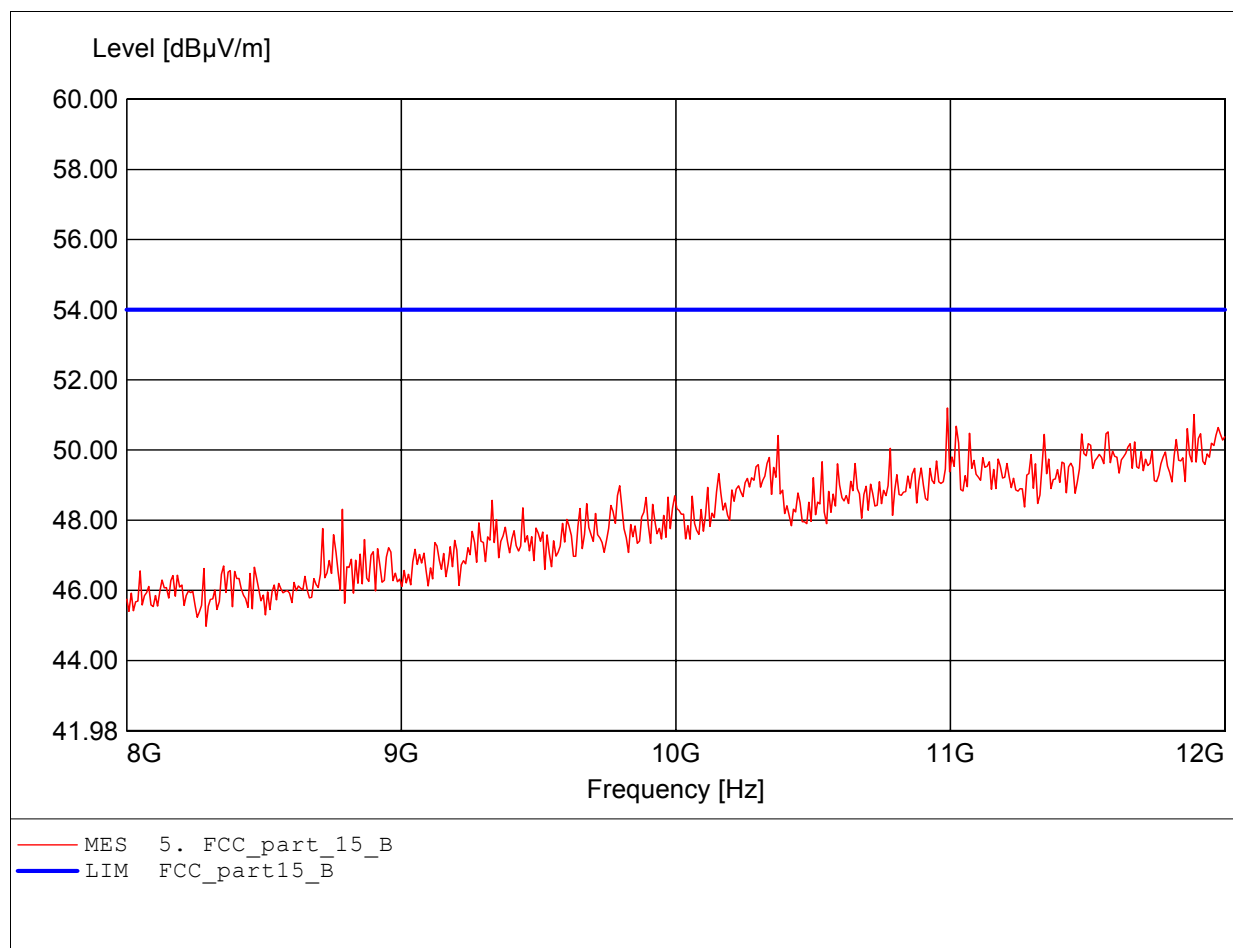
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.792GHz Emax:45.92dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

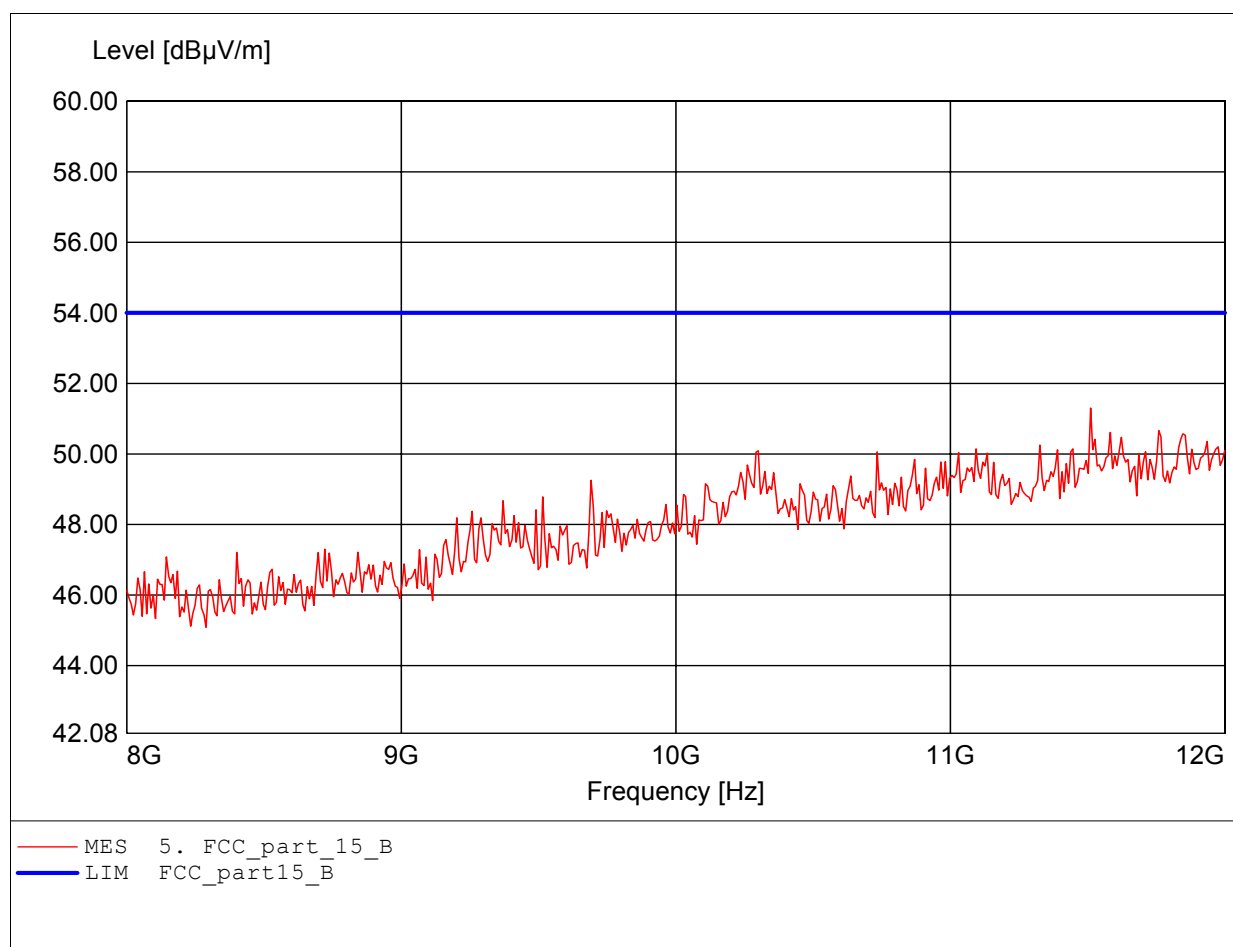
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:10.990GHz Emax:51.20dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

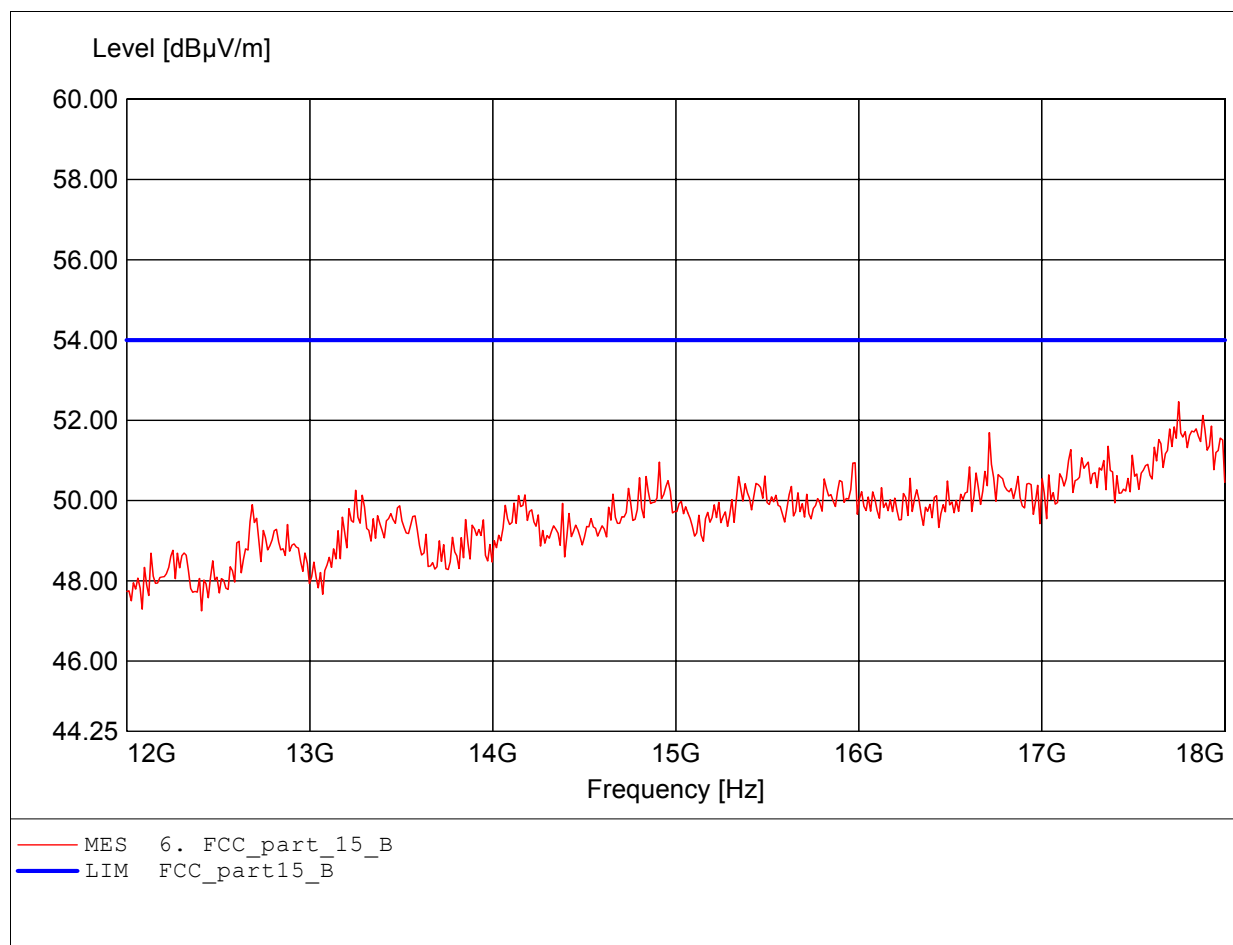
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.511GHz Emax:51.30dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

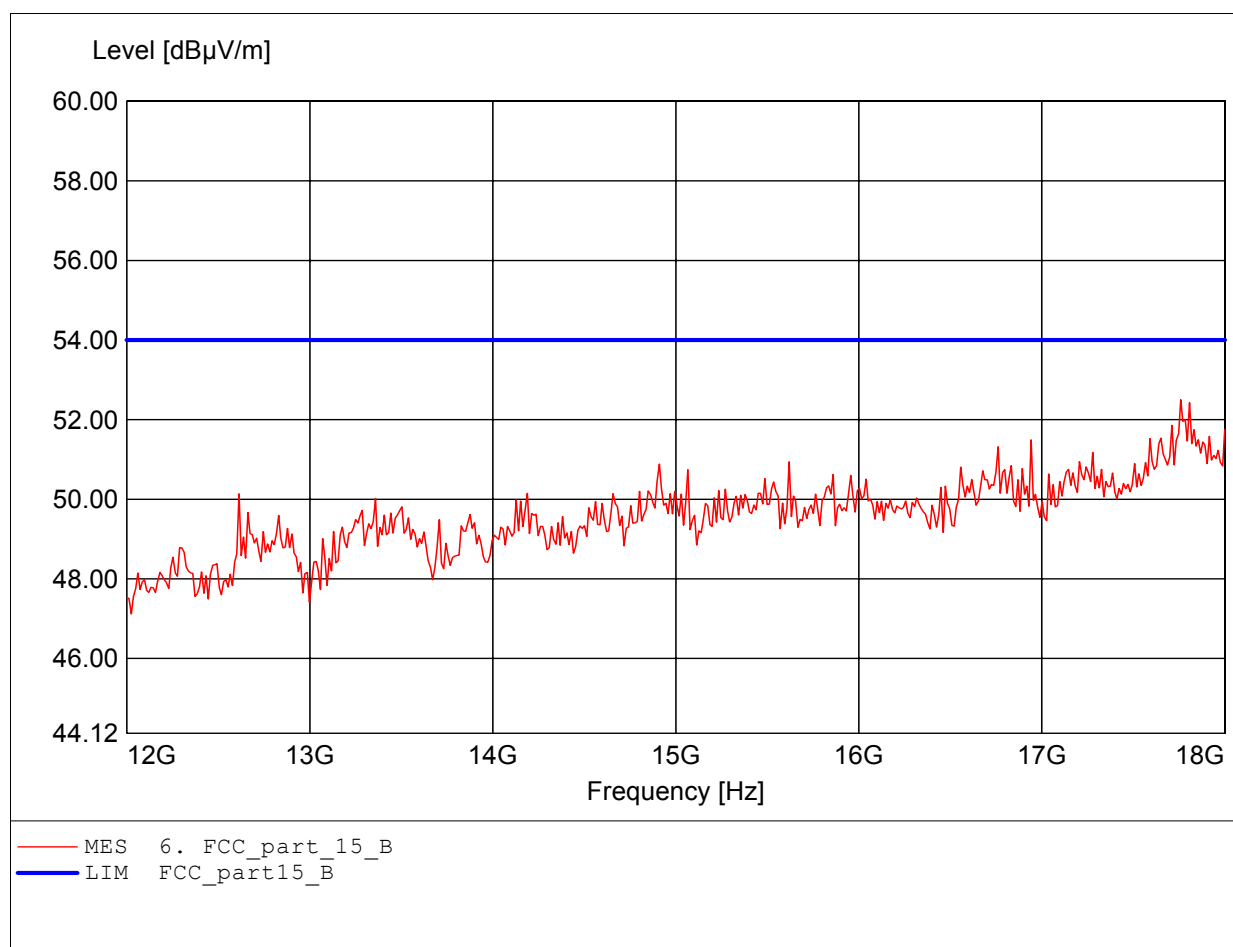
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.747GHz Emax:52.46dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

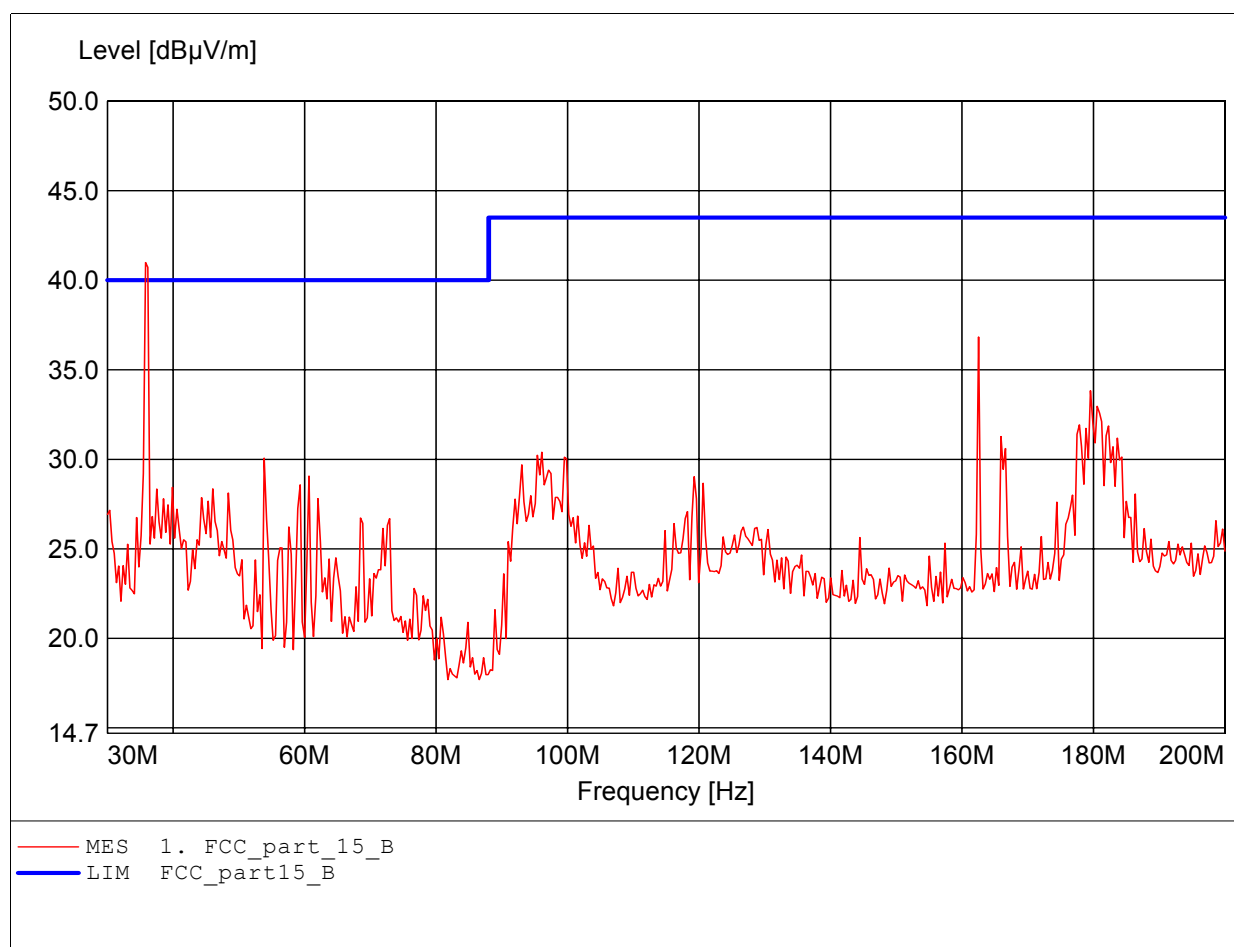
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 6
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.760GHz Emax:52.50dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

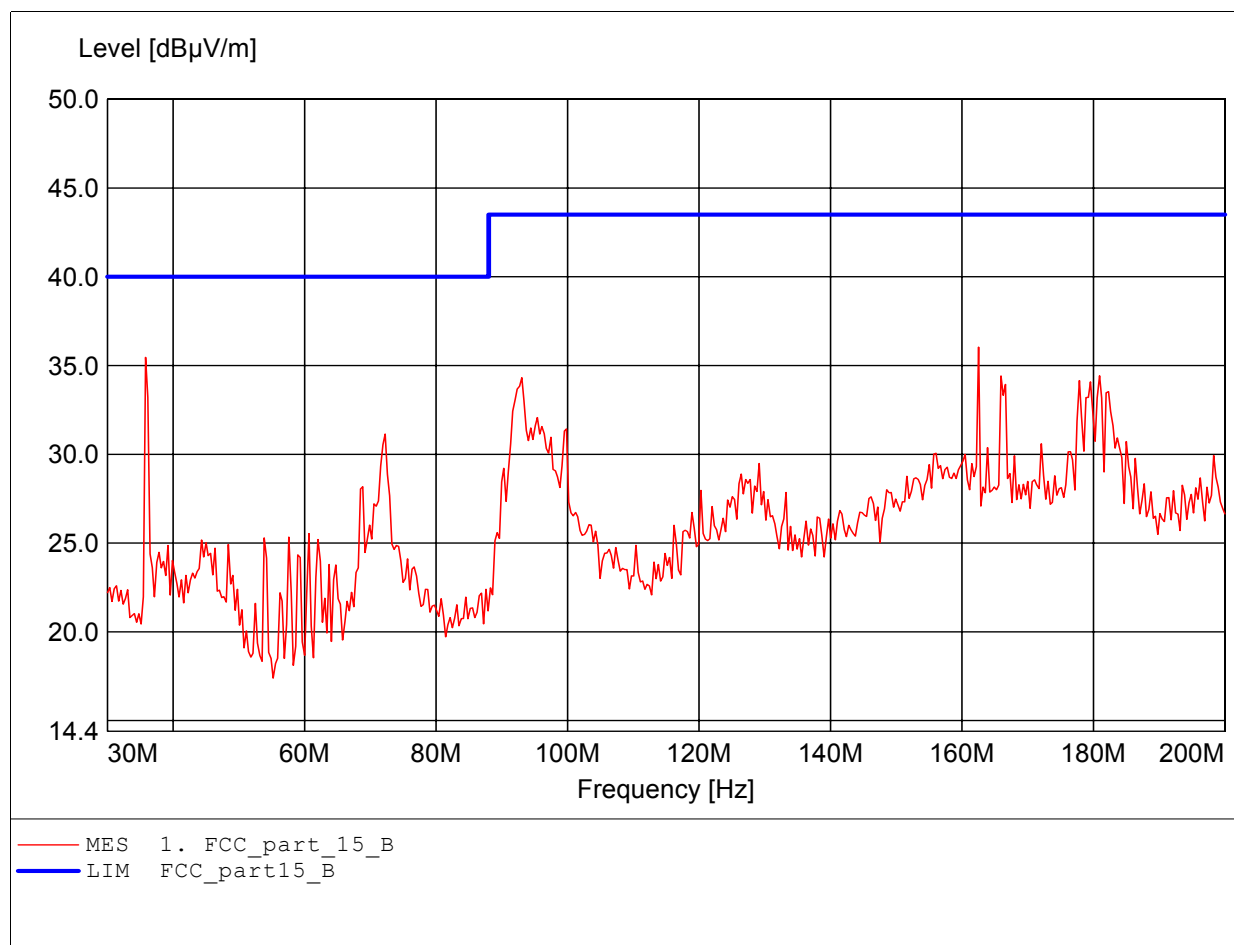
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:35.792MHz Emax:40.99dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

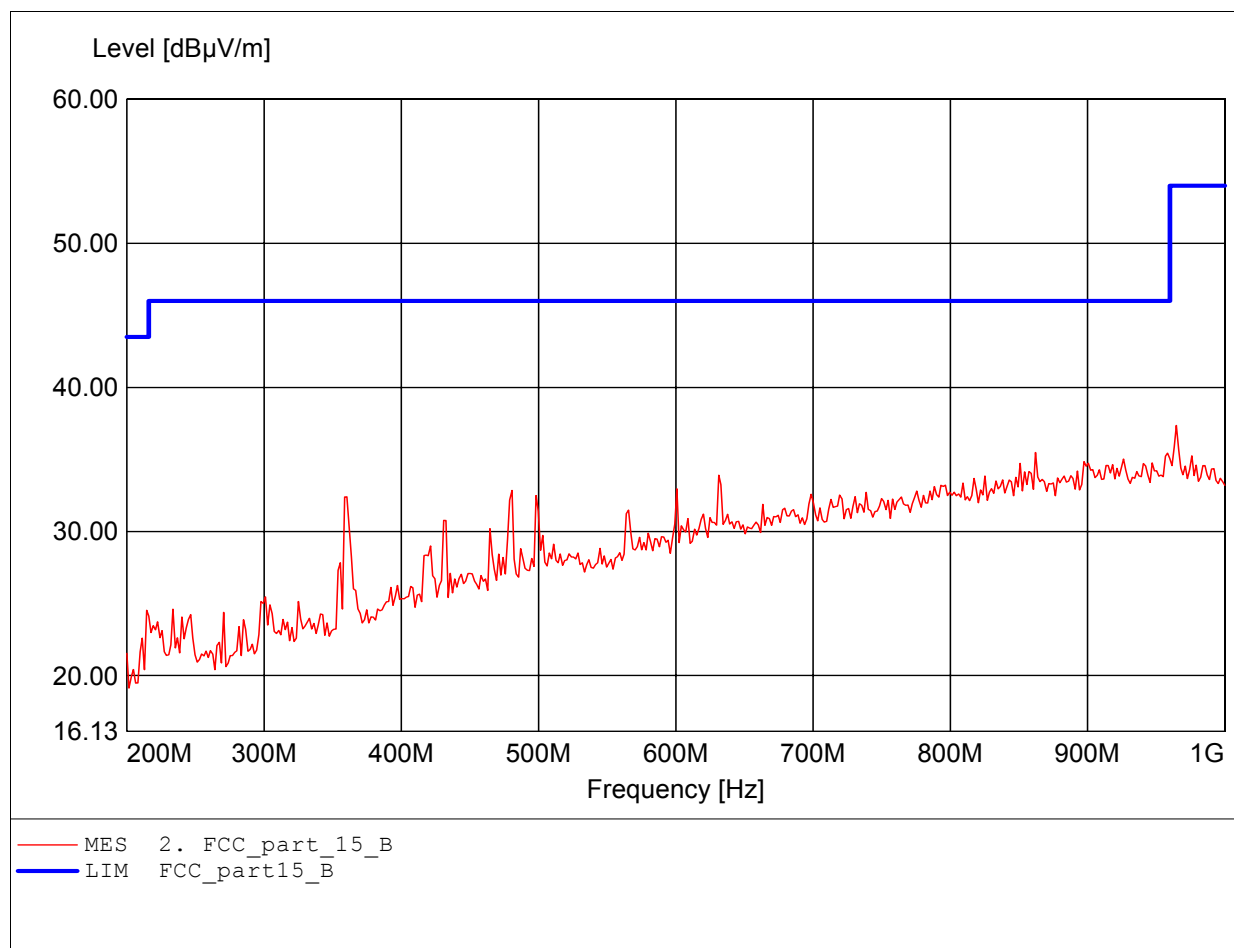
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:162.525MHz Emax:36.03dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

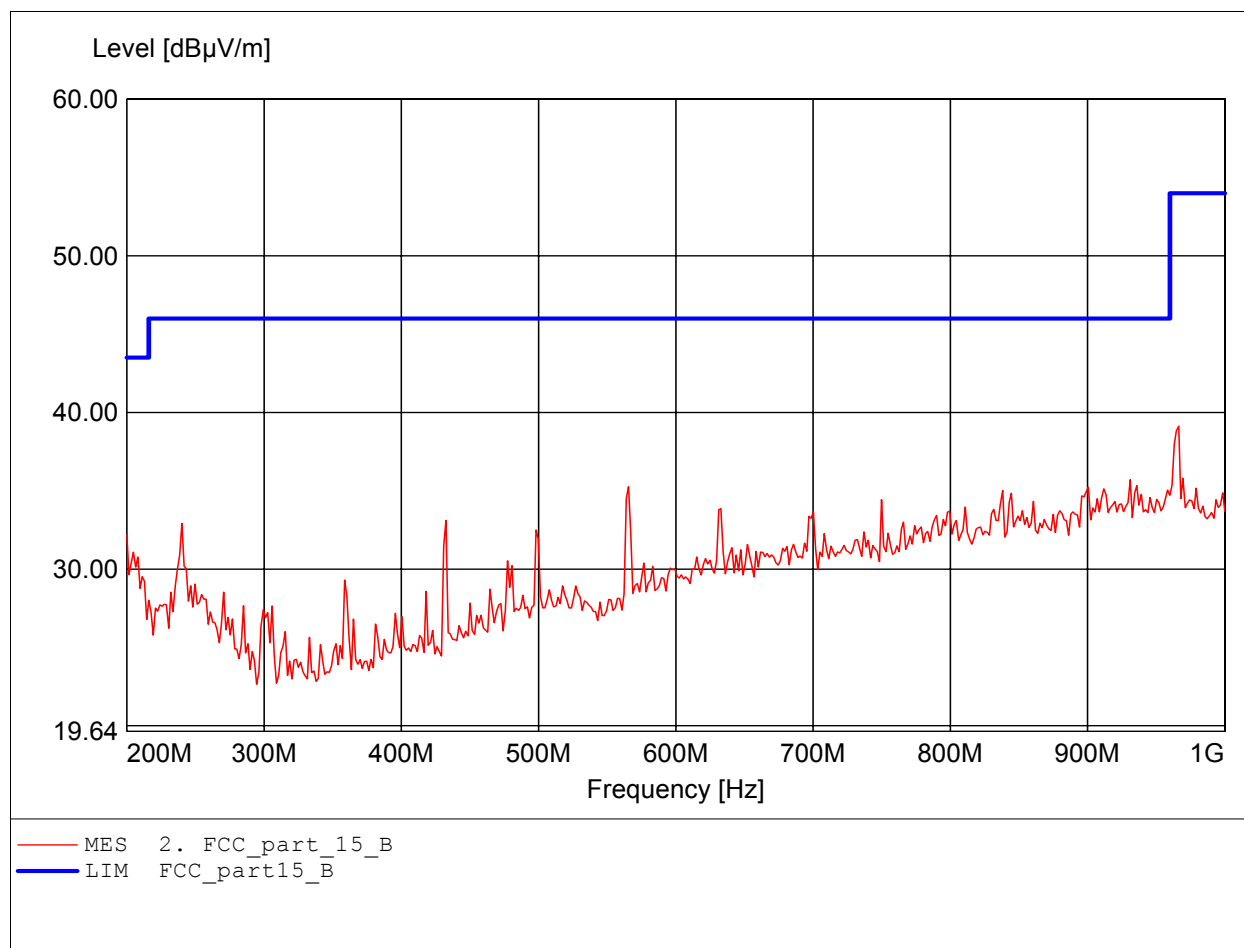
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq: 964.729MHz Emax: 37.36dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

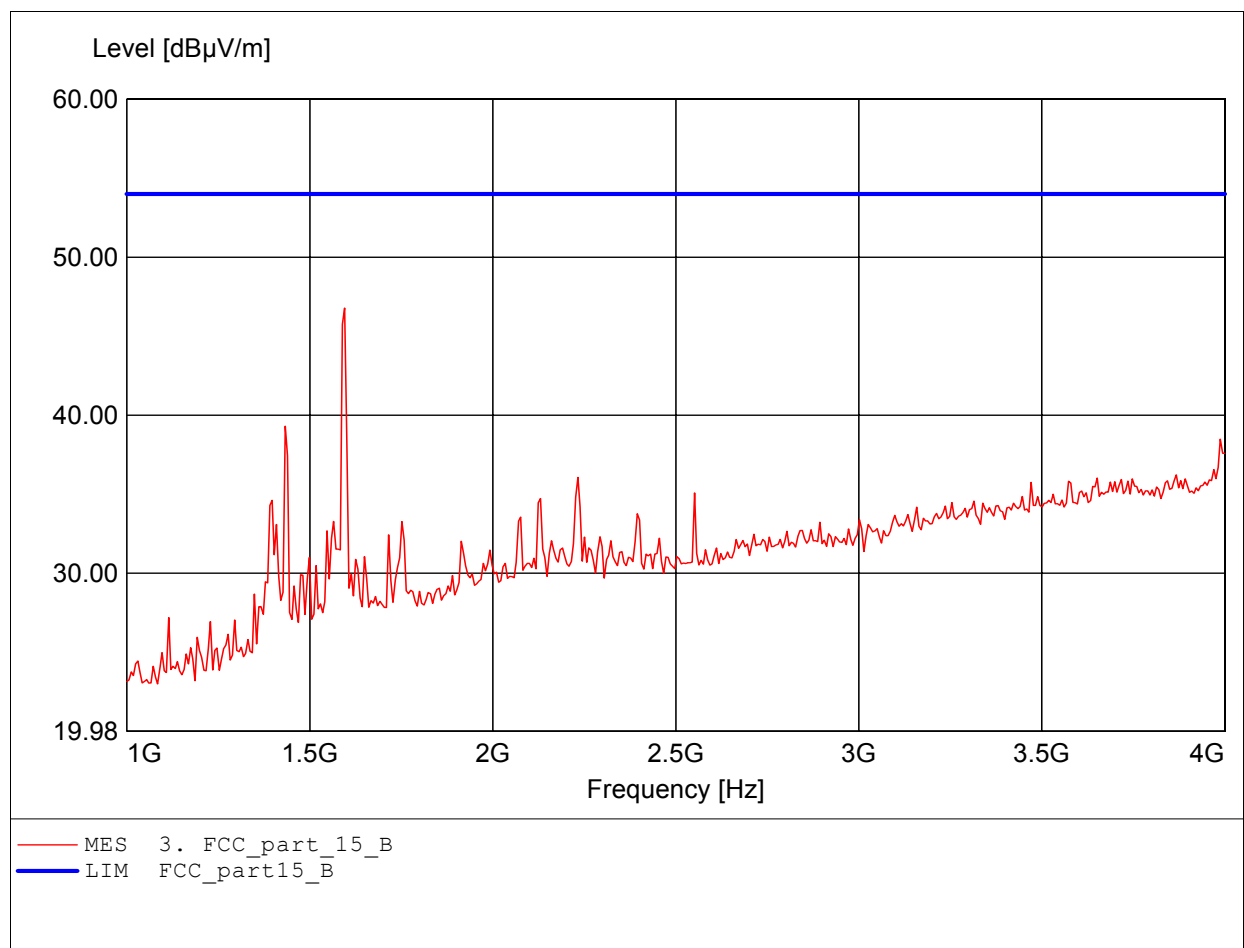
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:966.333MHz Emax:39.11dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

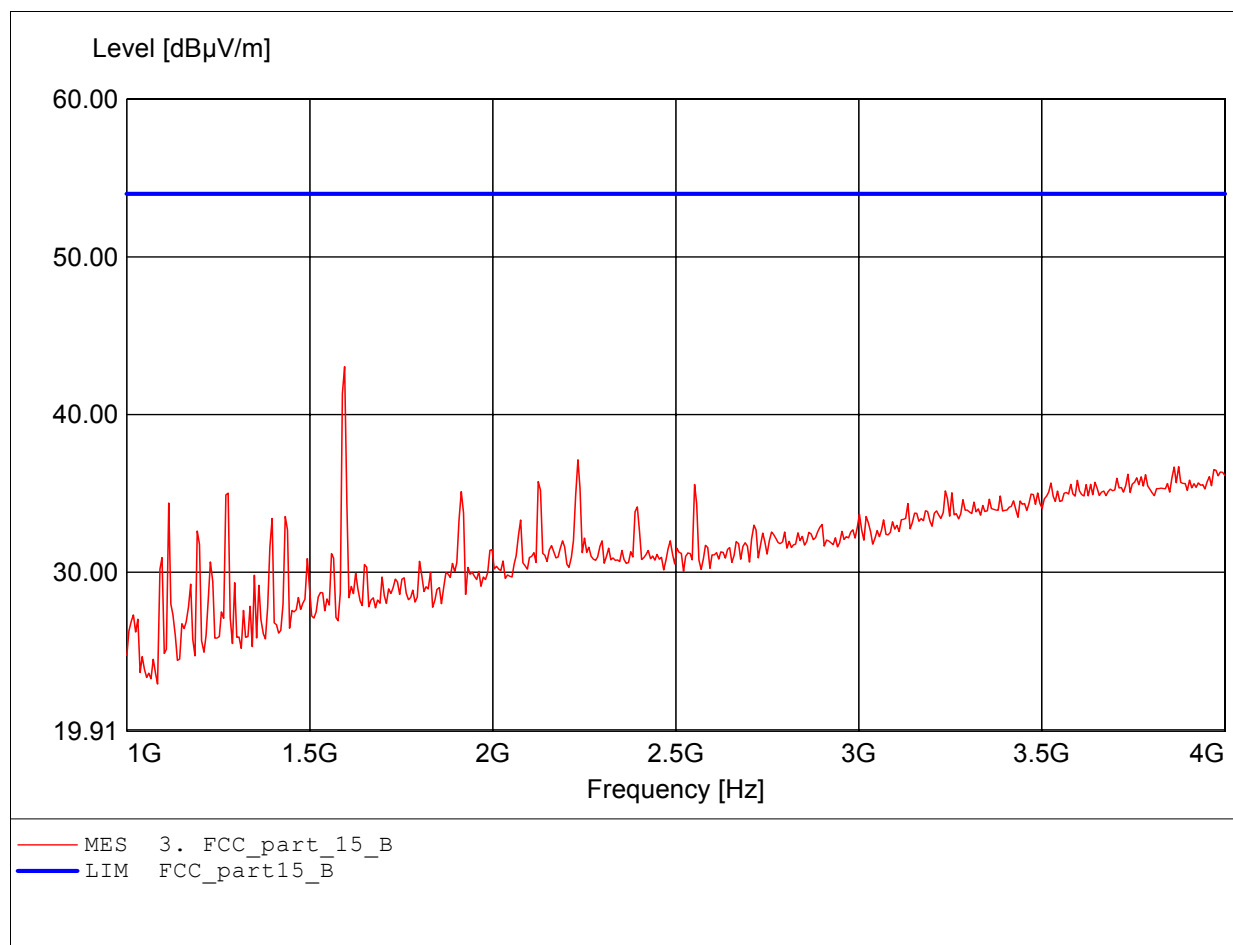
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:46.78dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

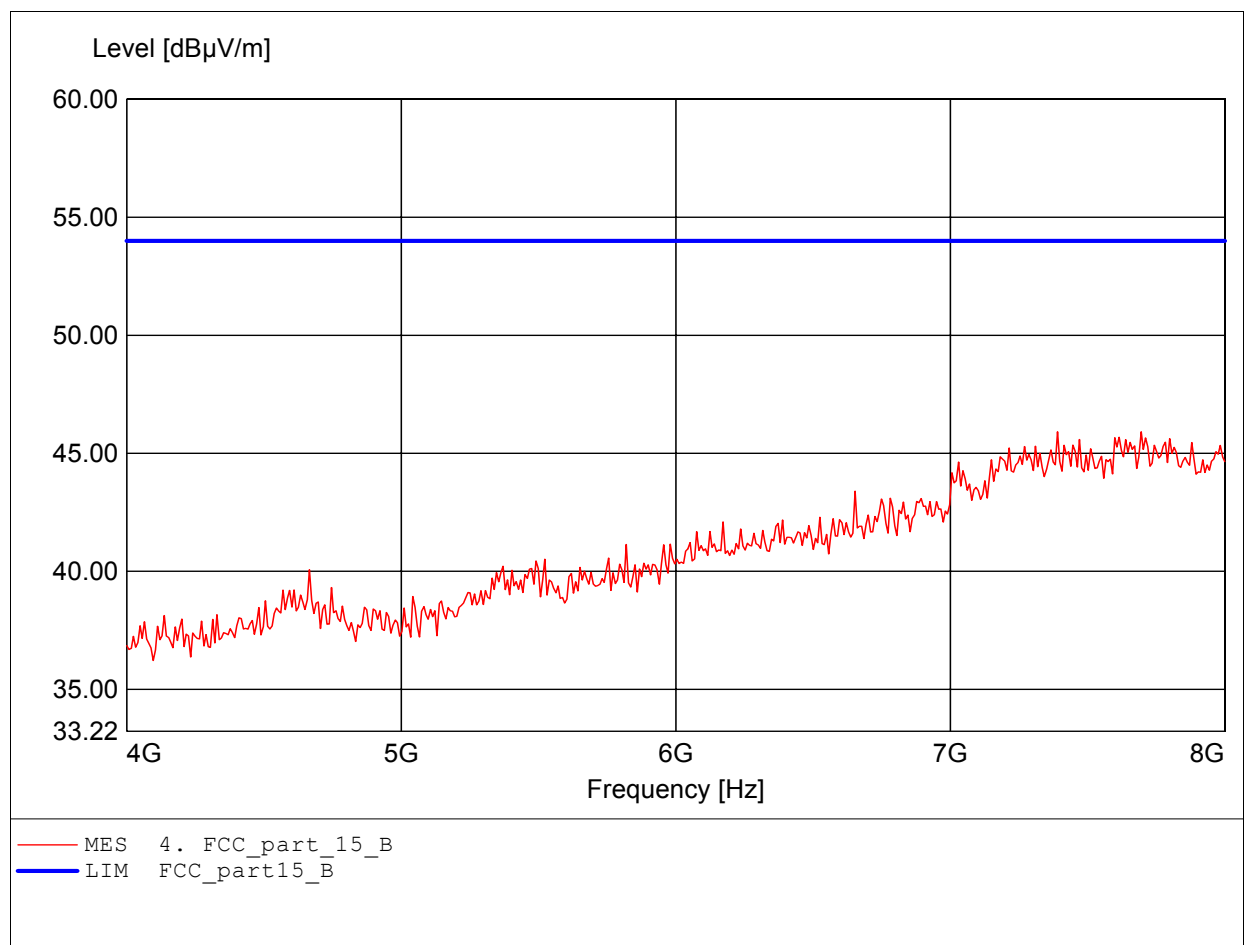
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:1.595GHz Emax:43.04dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

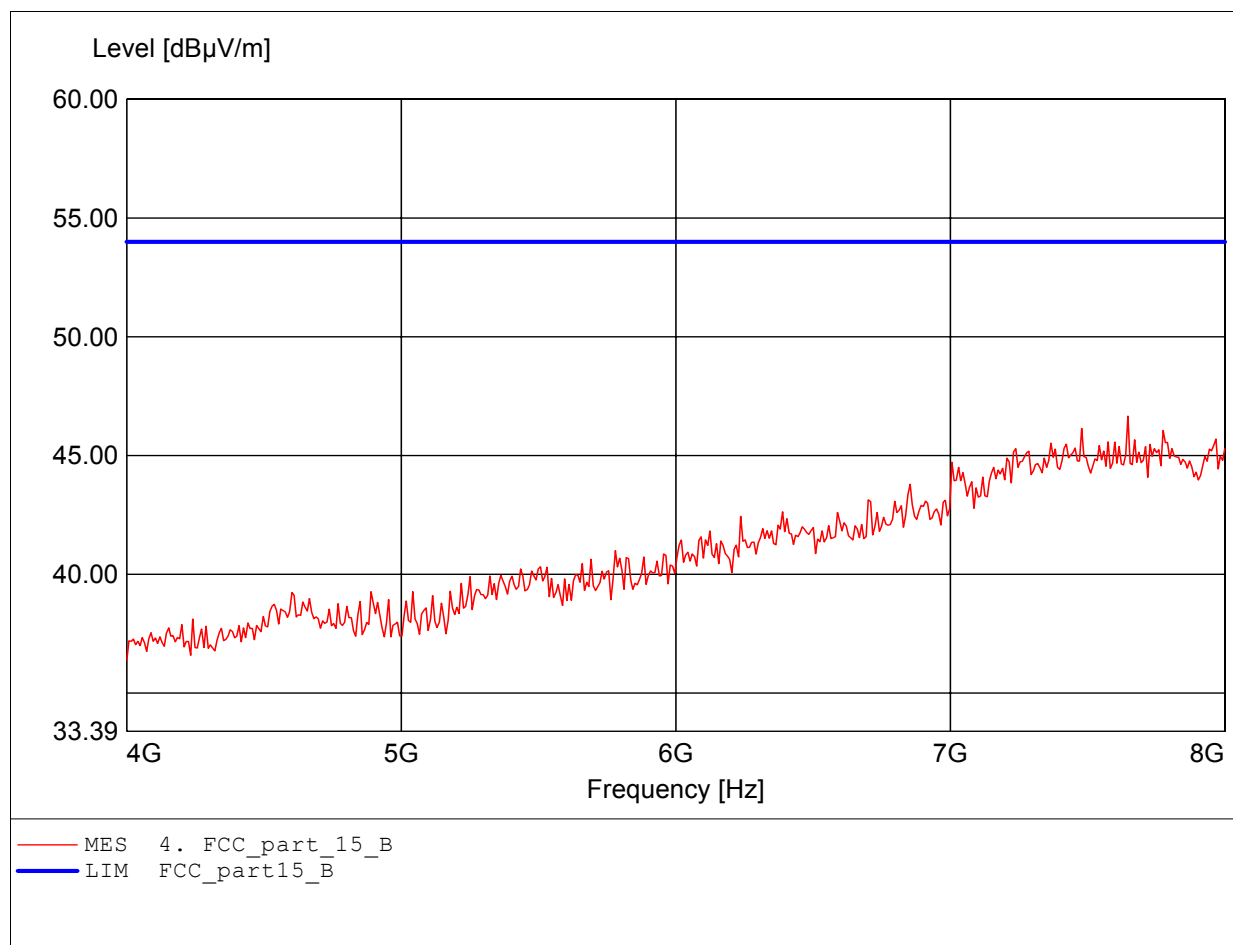
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.695GHz Emax:45.91dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

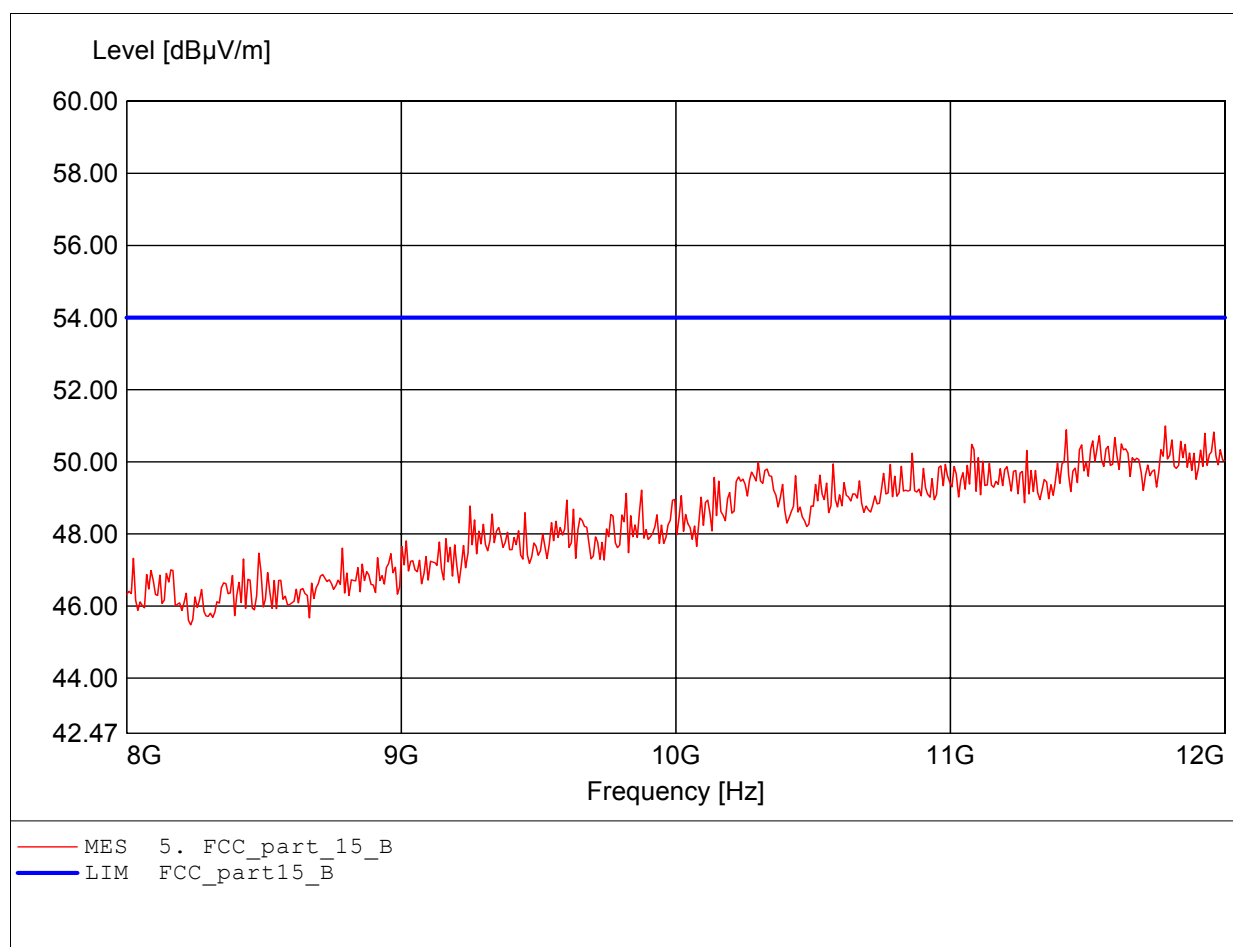
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:7.647GHz Emax:46.66dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

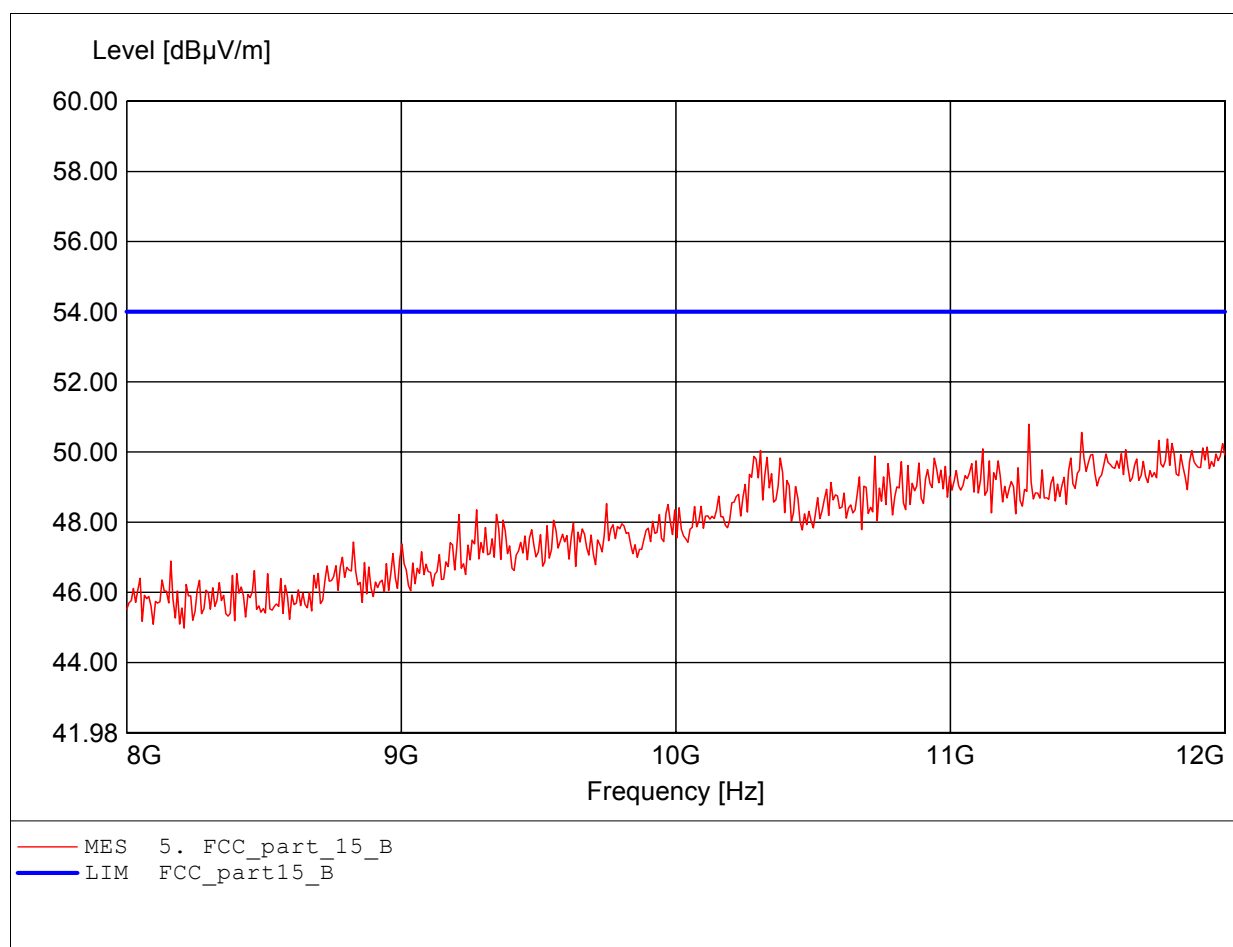
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.784GHz Emax:50.99dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

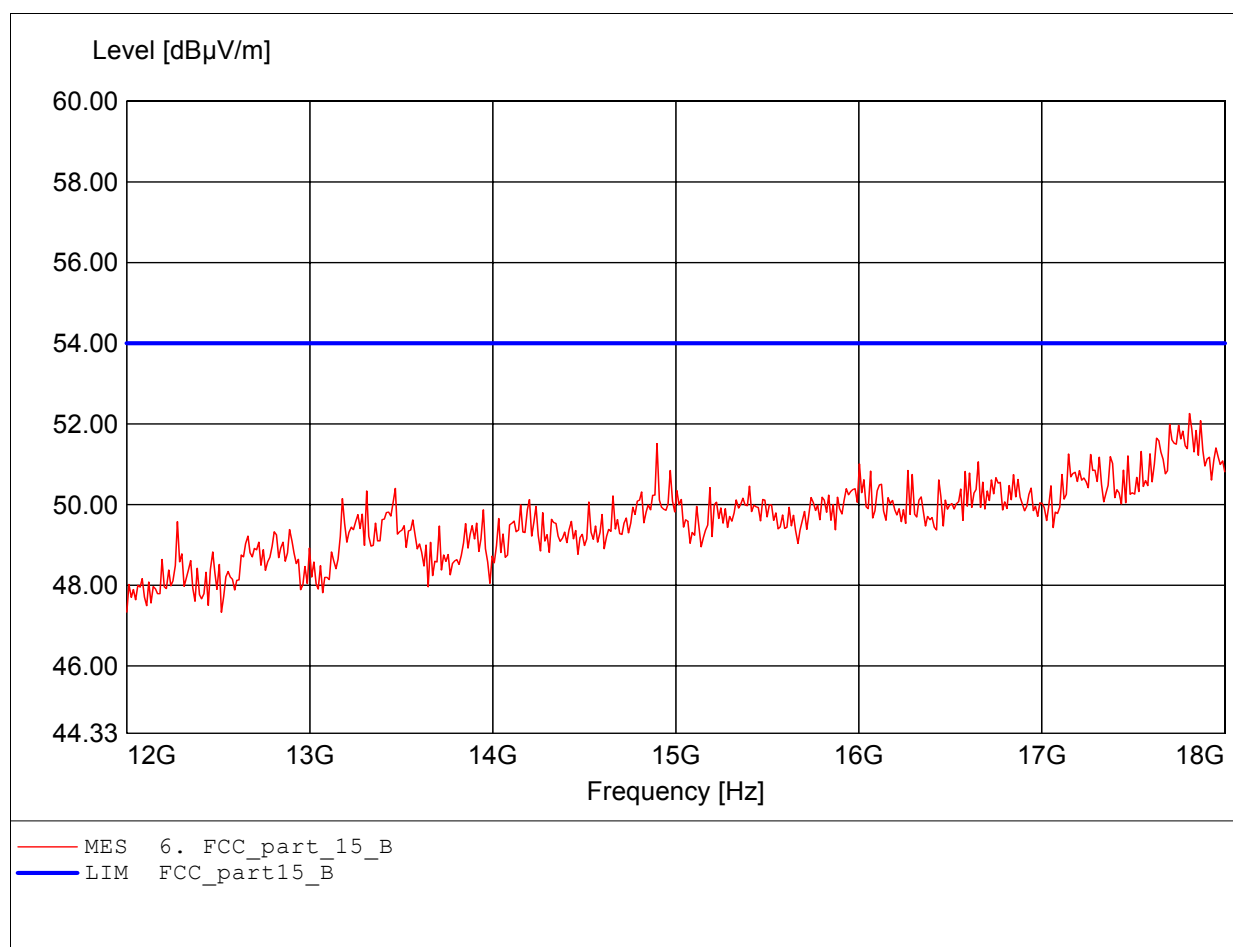
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:11.287GHz Emax:50.79dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

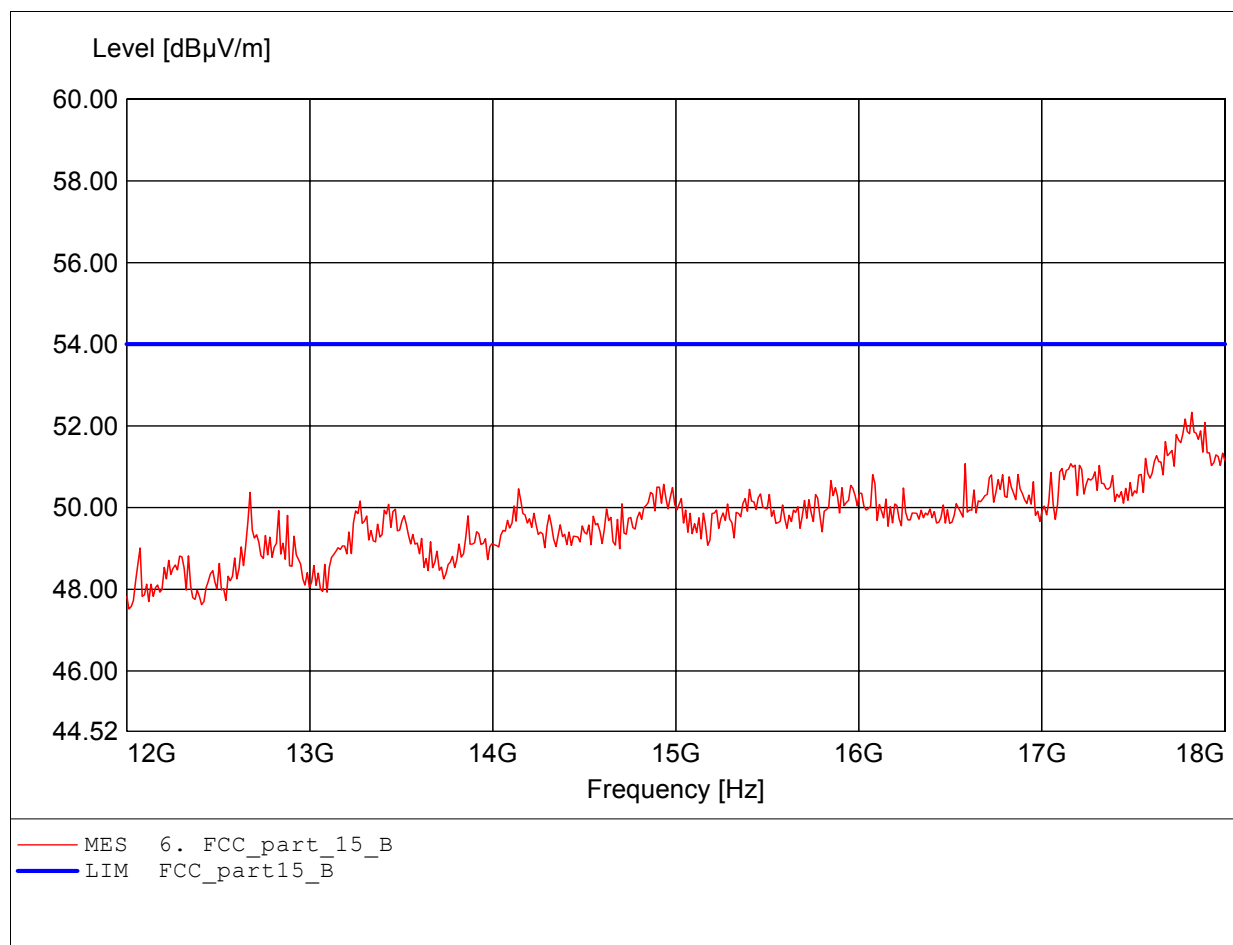
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.808GHz Emax:52.26dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

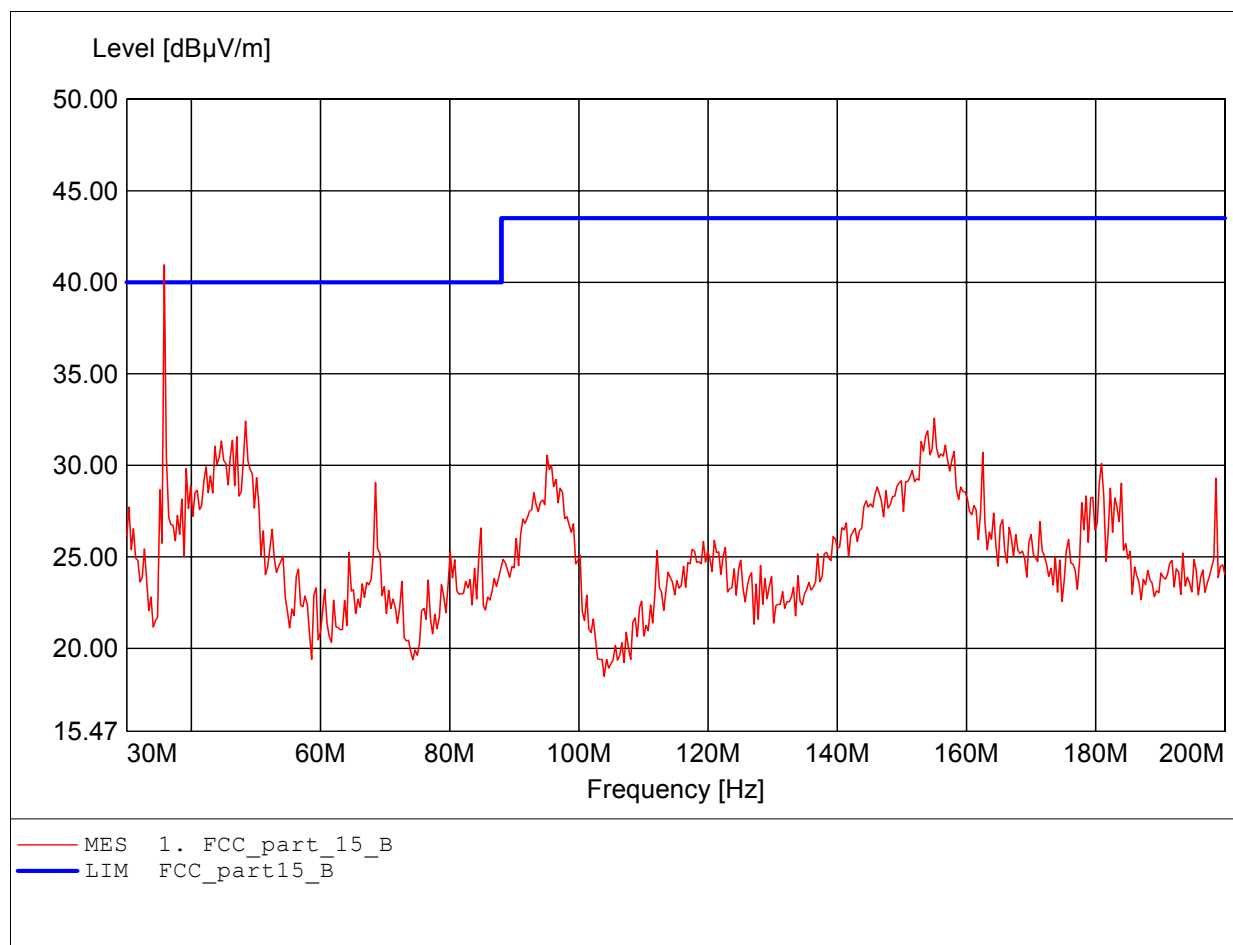
EUT: Wireless PCI Card
MODEL NO.: WP71RL 802.11b channel 11
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL25, ampl.
Freq:17.820GHz Emax:52.33dBμV/m RBW: 1 MHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

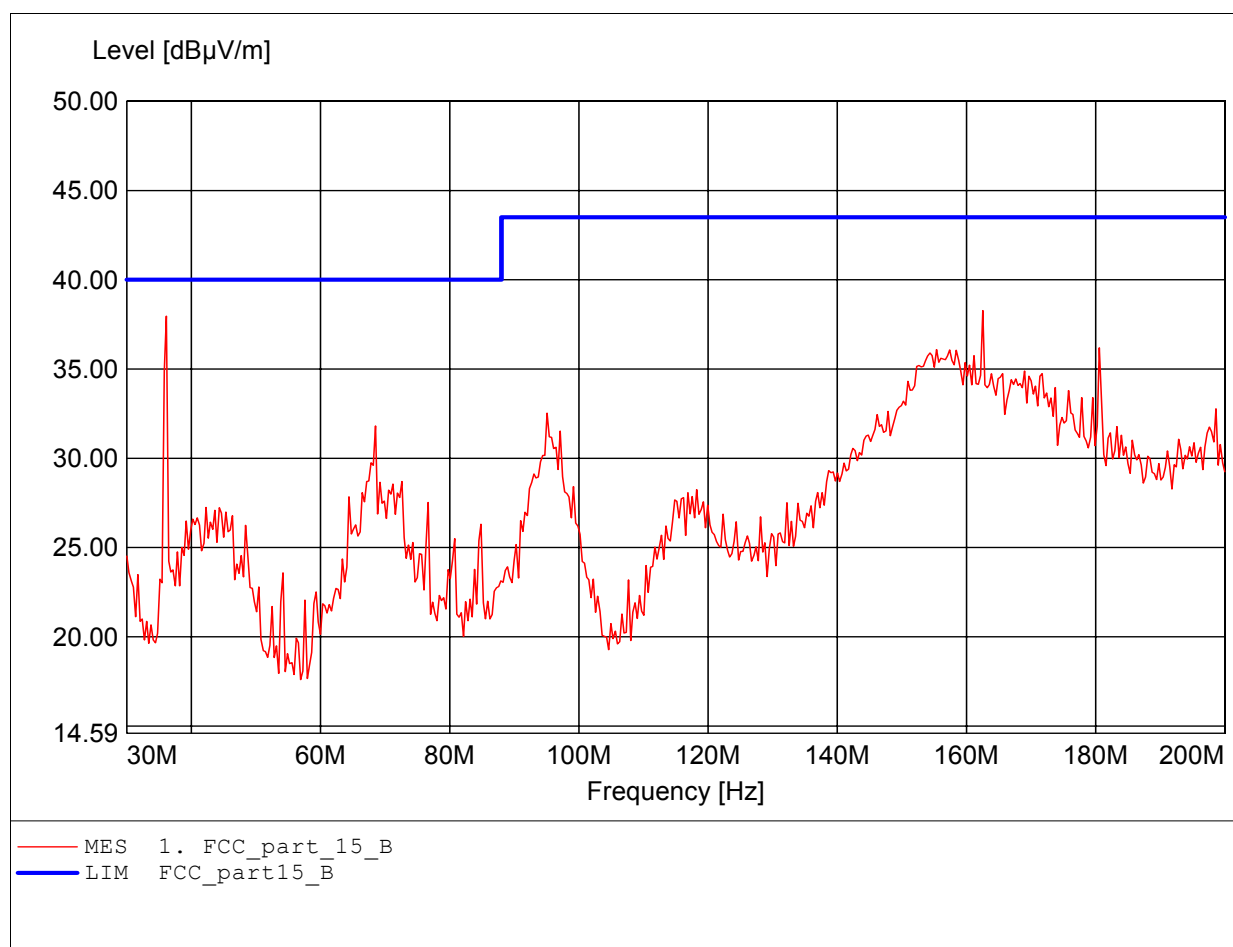
EUT: Wireless PCI Card
MODEL NO.: WP71RL
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:35.792MHz Emax:40.95dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

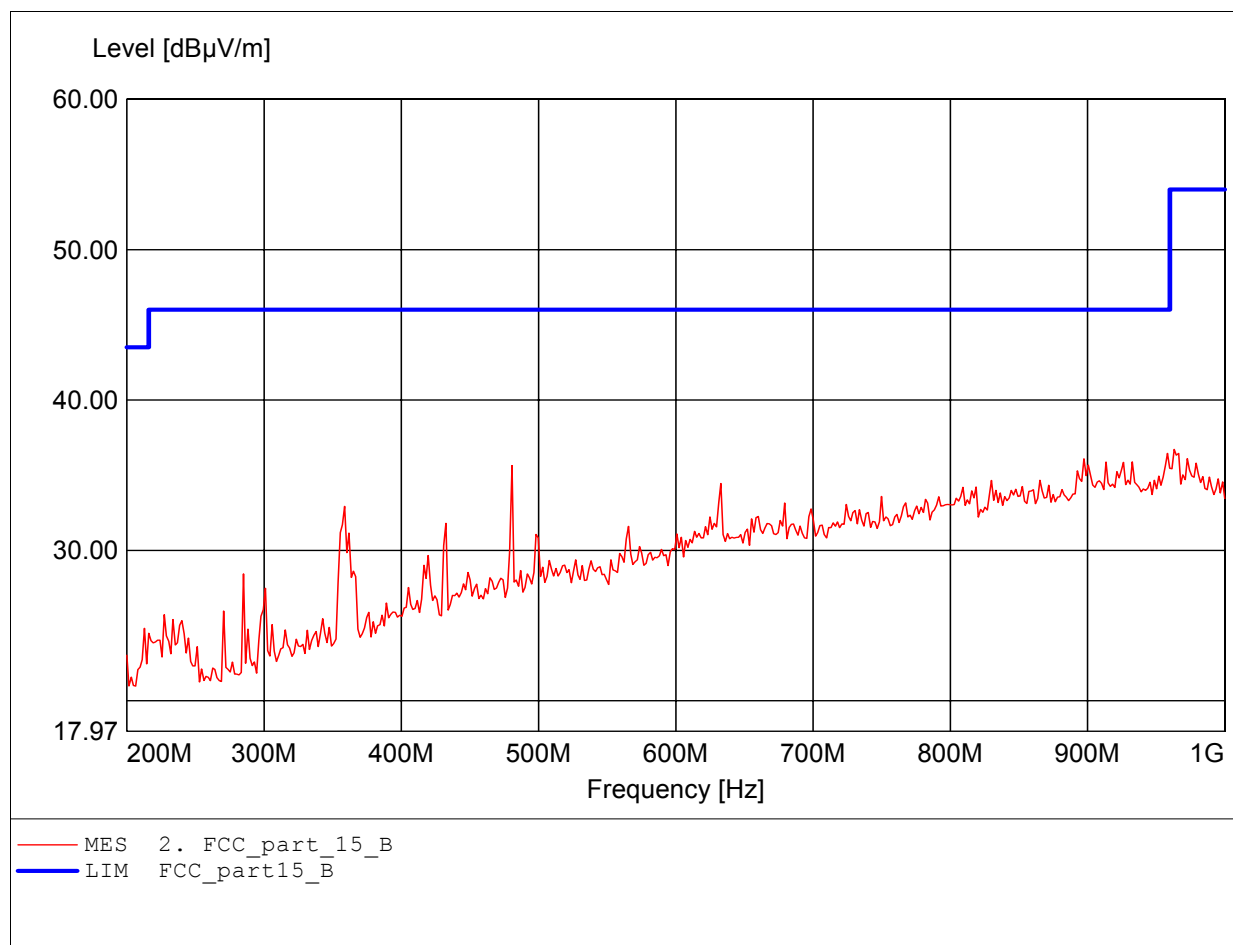
EUT: Wireless PCI Card
MODEL NO.: WP71RL
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HK 116
Freq:162.525MHz Emax:38.27dBµV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

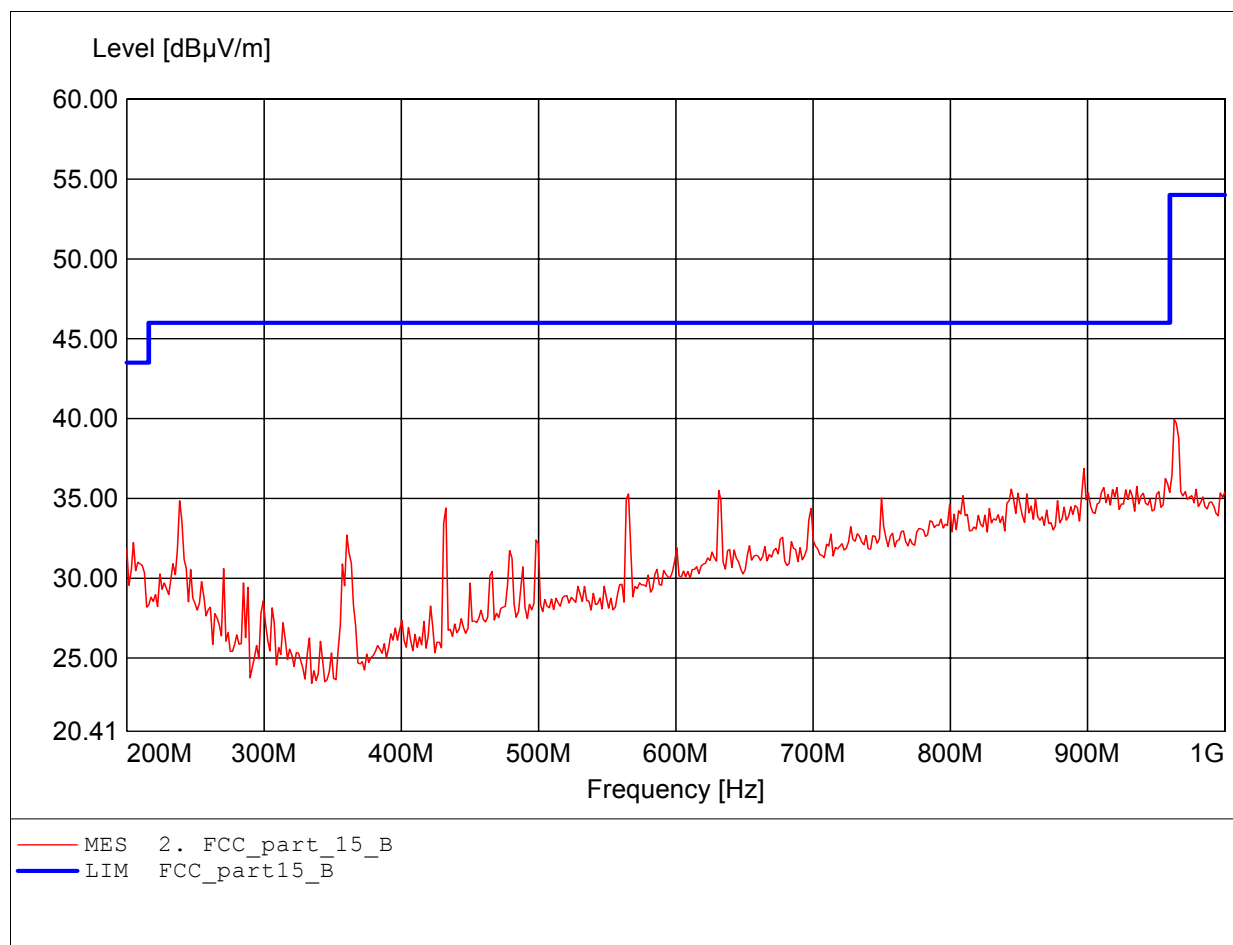
EUT: Wireless PCI Card
MODEL NO.: WP71RL
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:963.126MHz Emax:36.72dBμV/m RBW: 100 kHz



Field Strength under normal conditions

FCC RULES PART 15, SUBPART B

EUT: Wireless PCI Card
MODEL NO.: WP71RL
Approval Holder: Pro-Nets Technology Corporation
Test Site / Operator: ETS / Dennis
Temperature/Voltage: Temp.: 24.9°C/ Unom.: 120VAC (power on pc)
Test Specification: according to subpart B
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.
Freq:963.126MHz Emax:39.96dBμV/m RBW: 100 kHz





Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix G

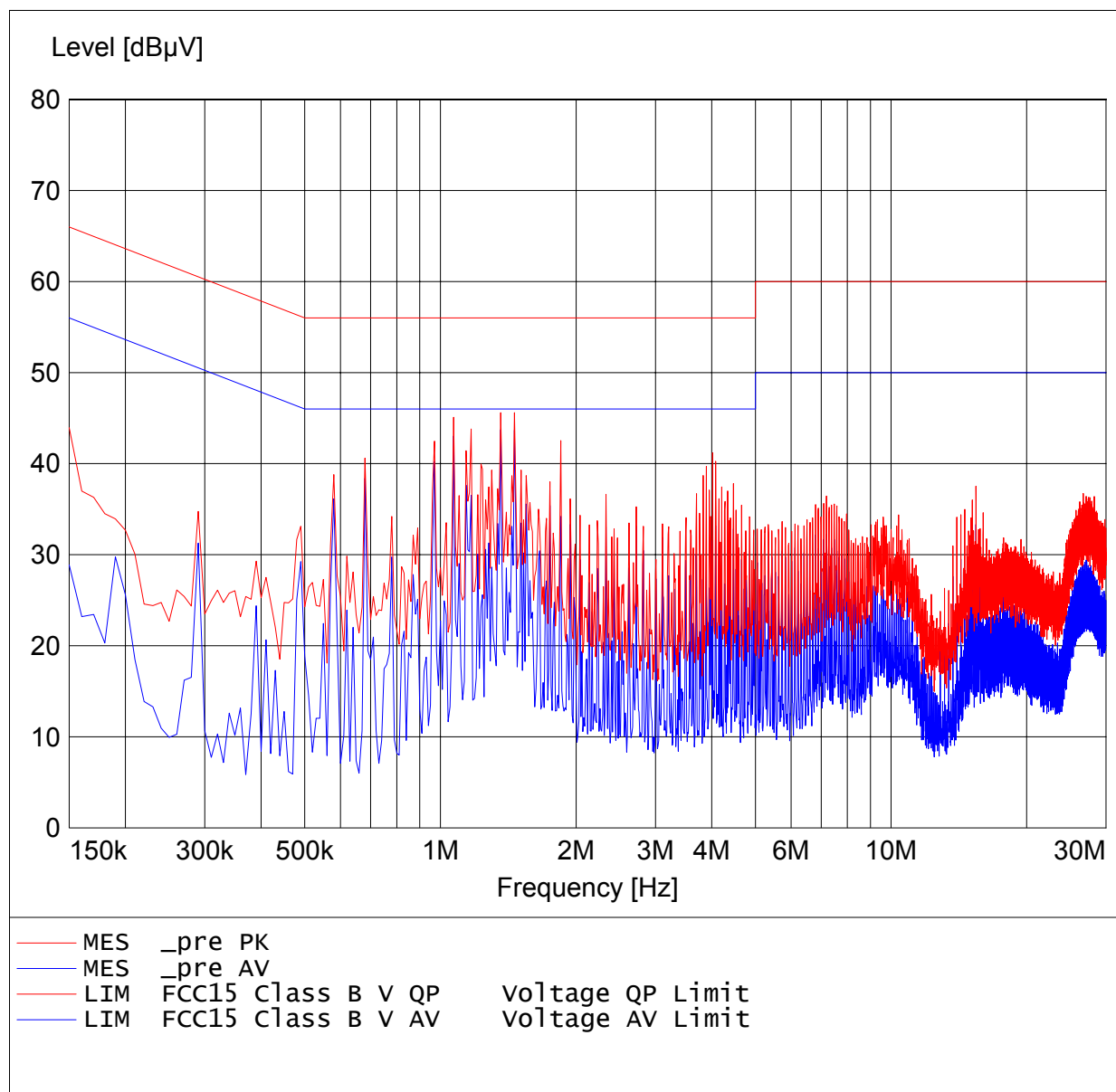
Power Line Conducted Emission

The measurement diagrams are wideband pre-scan results; only for reference. Please see final results as page 26.

EMI voltage test in the ac-mains according to FCC Part 15

Class B

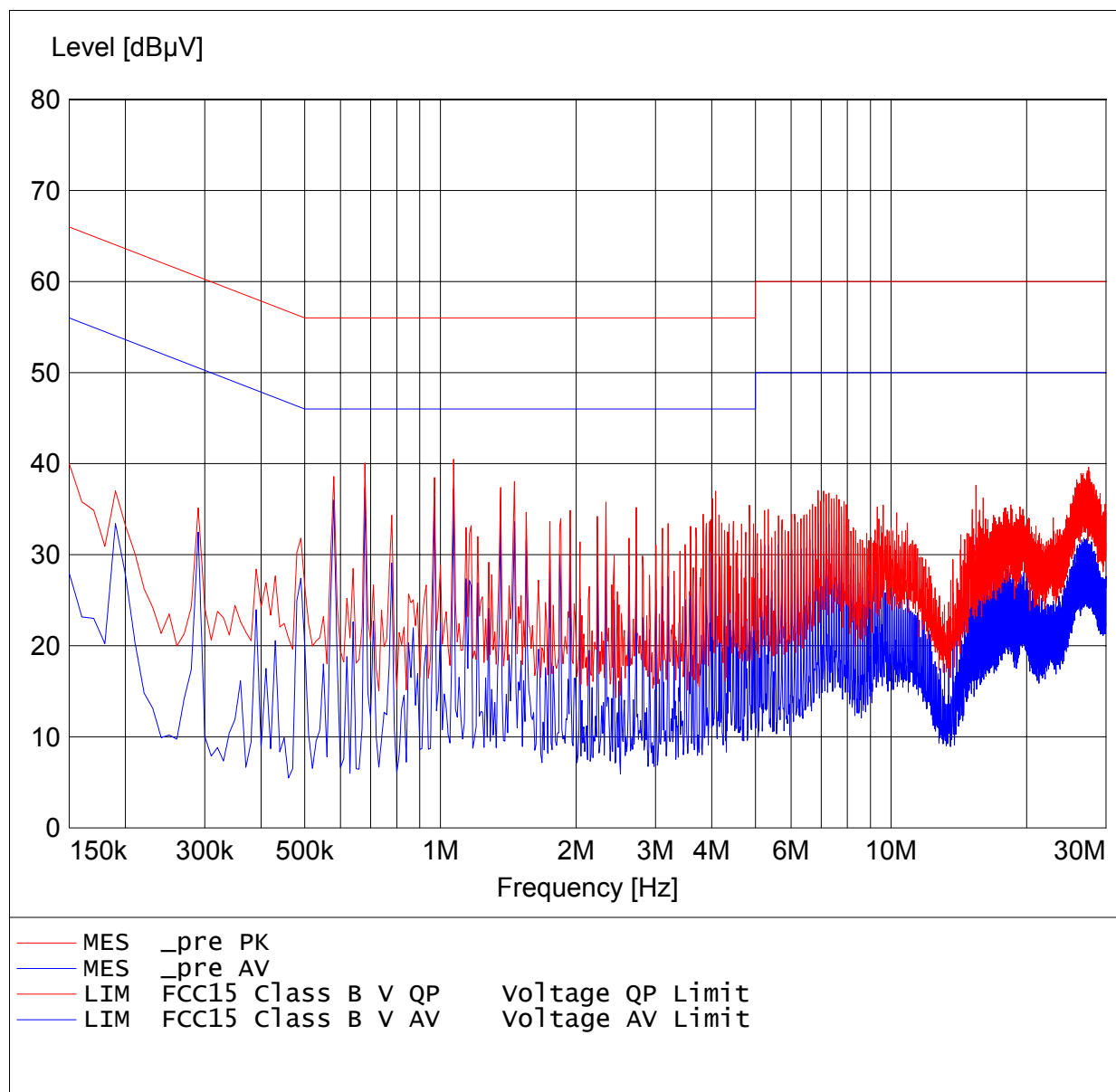
EUT: Wireless PCI Card
Manufacturer: Pro-Nets Technology Corporation
Operating Condition: Unom : 120 VAC (Power on PC) , Tnom : 24.2°C
Test Site: ETS
Operator: Daren
Test Specification: V-network: ESH3-Z5 N
Comment: model: WP71RL mode: active



EMI voltage test in the ac-mains according to FCC Part 15

Class B

EUT: Wireless PCI Card
Manufacturer: Pro-Nets Technology Corporation
Operating Condition: Unom : 120 VAC (Power on PC) , Tnom : 24.2°C
Test Site: ETS
Operator: Daren
Test Specification: V-network: ESH3-Z5 L1
Comment: model: WP71RL mode: active





Registration number: W6M20603-6773-C-1
FCC ID: RXZ-WP71RL

Appendix H

Pictures