FCC RADIO TEST REPORT

Prepared For	Panda Wireless, Inc.
Product Name:	Panda Wireless® 300Mbps Wireless N USB Adapter
Trade Name:	Panda Wireless
Model Name :	PAU05
FCC ID:	2ADUTLGPAU05
Prepared By	DongGuan Precise Testing Service Co.,Ltd.
	Building D, Baoding Technology Park, Guangming Road 2, Guangming Community, Dongcheng District, Dongguan, Guangdong, China
Report No.	PTS1506128121F
Test Date:	Jun. 20, 2015 ~ Jun.27, 2015
Date of Report :	Jun.27, 2015

Page 2 of 66

Report No.: PTS1506128121F

VERIFICATION OF COMPLIANCE

Applicant:	Panda Wireless, Inc.
Address	15559 Union Ave, Suite 300, Los Gatos, CA 95032
Manufacturer Name:	Panda Wireless, Inc.
Address:	15559 Union Ave, Suite 300, Los Gatos, CA 95032
Product Description:	Panda Wireless® 300Mbps Wireless N USB Adapter
Brand Name:	Panda Wireless
Model Name:	PAU05
Test procedure	ANSI C63.10:2013
Standards	FCC PART15.247

Prepared by:

Jones Song /Assistant

Reviewer:

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Jacky Ou/Manager



Table of Contents

	Page
1 . SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	6
1.2 MEASUREMENT UNCERTAINTY	6
	_
2 . GENERAL INFORMATION	7
2.1 GENERAL DESCRIPTION OF EUT	7
2.2 DESCRIPTION OF TEST MODES	9
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 10
2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
FOR RADIATED EMISSION TEST (BELOW 1GHZ) FOR RADIATED EMISSION TEST (1GHZ ABOVE)	12 12
, ,	
3 . EMC EMISSION TEST	14
3.1 CONDUCTED EMISSION MEASUREMENT	14
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE	14 15
3.1.3 DEVIATION FROM TEST STANDARD	15
3.1.4 TEST SETUP	15
3.1.5 EUT OPERATING CONDITIONS	15
3.1.6 TEST RESULTS	16
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	18 18
3.2.2 TEST PROCEDURE	19
3.2.3 DEVIATION FROM TEST STANDARD	19
3.2.4 TEST SETUP	20
3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)	21 22
3.2.7 TEST RESULTS (BETWEEN 30MHZ – 30 MHZ)	23
3.2.8 TEST RESULTS (ABOVE 1000 MHZ)	24
4 . POWER SPECTRAL DENSITY TEST	44
4.1 APPLIED PROCEDURES / LIMIT	44
4.1.1 TEST PROCEDURE	44
4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP	44 44
4.1.4 EUT OPERATION CONDITIONS	44
4.1.5 TEST RESULTS	45
5 . BANDWIDTH TEST	53
5.1 APPLIED PROCEDURES / LIMIT	53

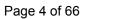




Table of Contents	
	Page
5.1.1 TEST PROCEDURE	53
5.1.2 DEVIATION FROM STANDARD	53
5.1.3 TEST SETUP	53
5.1.4 EUT OPERATION CONDITIONS	53
5.1.5 TEST RESULTS	54
6 . PEAK OUTPUT POWER TEST	62
6.1 APPLIED PROCEDURES / LIMIT	62
6.1.1 TEST PROCEDURE	62
6.1.2 DEVIATION FROM STANDARD	62
6.1.3 TEST SETUP	62
6.1.4 EUT OPERATION CONDITIONS	62
6.1.5 TEST RESULTS	63
7 . ANTENNA REQUIREMENT	64
7.1 STANDARD REQUIREMENT	64
7.2 EUT ANTENNA	64
9 FIIT TEST DUOTO	65

APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Power Spectral Density	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		



1.1 TEST FACILITY

FCC Registration No.: 371540, IC Registration No.: 12191A-1

Dongguan Precise Testing Service Co., Ltd.

Add.: Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan,

Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Panda Wireless® 300	Mbps Wireless N USB Adapter			
Trade Name	Panda Wireless				
Model Name	PAU05	PAU05			
Serial Model	N/A				
Model Difference	N/A				
Product Description	Adapter Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna Designation: Output Power(Conducted): Based on the applicati User's Manual, the EU Device. More details of refer to the User's Manual	802.11b: 19.56dBm (Max.) 802.11g: 16.47 dBm (Max.) 802.11n(20M) : 14.56dBm (Max.) 802.11n(40M) : 14.99dBm (Max.) on, features, or specification exhibited in IT is considered as an ITE/Computing of EUT technical specification, please hual.			
Channel List	Please refer to the No	te 2.			
Ratings	N/A				
Adapter	N/A				
Battery	N/A				
Connecting I/O Port(s)	Please refer to the Use	er's Manual			

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.

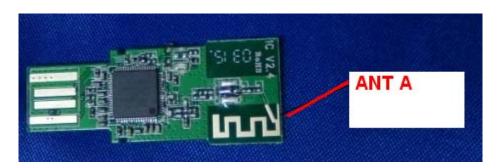
	Channel List for 802.11b/g/n(20)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

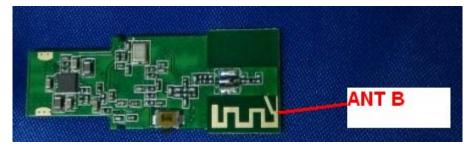
Report No.: PTS1506128121F

	Channel List for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	80	2447				

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	PCB Antenna	N/A	1.1	Wifi Antenna
В	N/A	N/A	PCB Antenna	N/A	1.1	Wifi Antenna





Note: Antenna a and antenna B have the same feed point.



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20) CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	WIFI NORMAL LINK

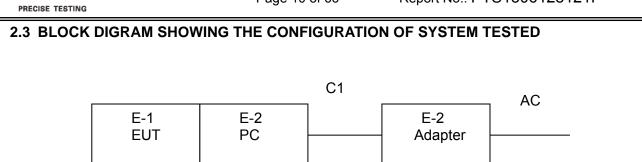
	For Conducted Emission
Final Test Mode	Description
Mode 5	WIFI NORMAL LINK

For Radiated Emission				
Final Test Mode	Description			
Mode 1	802.11b CH1/ CH6/ CH11			
Mode 2	802.11g CH1/ CH6/ CH11			
Mode 3	802.11n(20) CH1/ CH6/ CH11			
Mode 4	802.11n(40) CH3/ CH6/ CH9			
Mode 5	WIFI NORMAL LINK			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported







2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	Panda Wireless®				
E-1	300Mbps Wireless N	N/A	N/A	N/A	EUT
	USB Adapter				
E-2	Notebook computer	IBM	2366	N/A	
E-3	Adapter	IBM	08K8202	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.0M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2014	July 3, 2015
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2014	July 3, 2015
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2014	July 3, 2015
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2014	July 3, 2015
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2015	June 5, 2016
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2015	June 5, 2016

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2014	July 3, 2015
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2014	July 10, 2015
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2014	July 3, 2015
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2014	July 6, 2015
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2014	July 7, 2015
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2015	June 5, 2016
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2015	June 5, 2016

Page 13 of 66 Report No.: PTS1506128121F

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA

2. N/A = No Calibration Request.

FOR CONDUCTED EMISSION TEST:

Name of Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2014	July 3, 2015
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2014	July 7, 2015
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2014	July 7, 2015
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2014	July 3, 2015
Shielded Room	CHENGYU	843	PTS-002	June 6, 2015	June 5, 2016

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA and NIM/CHINA



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
FREQUENCT (MHZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



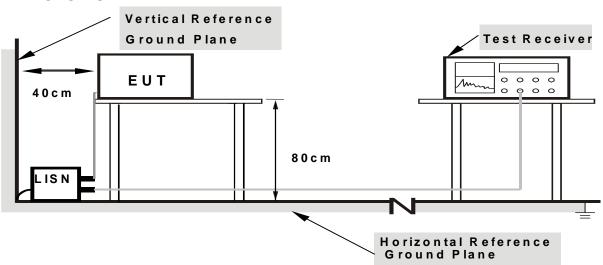
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



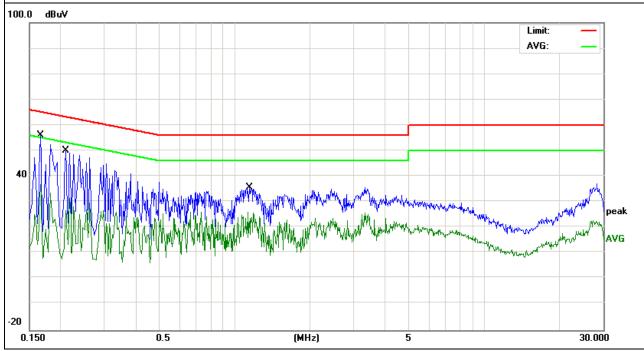
3.1.6 TEST RESULTS

-			
IF() .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name. :	PAU05
Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from notebook AC120V/60Hz	Test Mode :	Mode 4

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1660	46.37	9.81	56.18	65.15	-8.97	QP
0.2100	40.14	9.78	49.92	63.20	-13.28	QP
1.1340	25.44	10.16	35.60	56.00	-20.40	QP
0.1660	27.16	9.81	36.97	55.15	-18.18	AVG
0.2100	19.95	9.78	29.73	53.20	-23.47	AVG
1.1340	15.76	10.16	25.92	46.00	-20.08	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



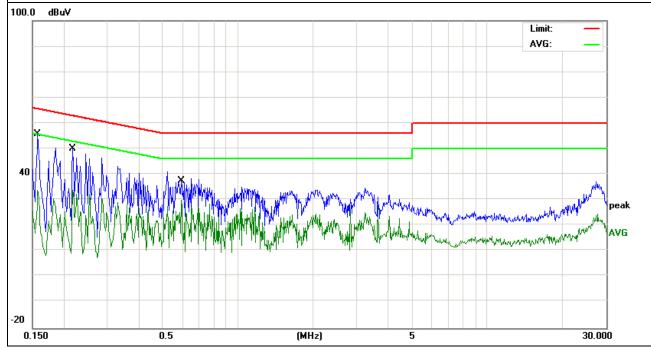
Report No.: PTS1506128121F Page 17 of 66

	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name. :	PAU05
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
LIEST VOITAGE .	DC 5.0V from notebook AC120V/60Hz	Test Mode :	Mode 1

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.2180	39.92	10.20	50.12	62.89	-12.77	QP
0.1580	45.93	9.88	55.81	65.56	-9.75	QP
0.5940	30.74	10.22	40.96	56.00	-15.04	QP
0.1580	24.07	9.88	33.95	55.56	-21.61	AVG
0.2180	22.37	10.20	32.57	52.89	-20.32	AVG
0.5940	19.84	10.22	30.06	46.00	-15.94	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 Mile / 1 Mile for Dook 1 Mile / 10/1-for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site for below 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was place on the top of a roatating table 1.5 meters for above 1GHz.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

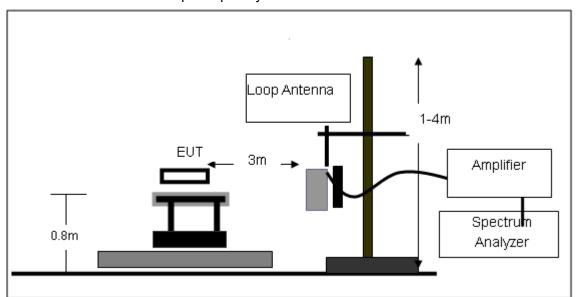
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

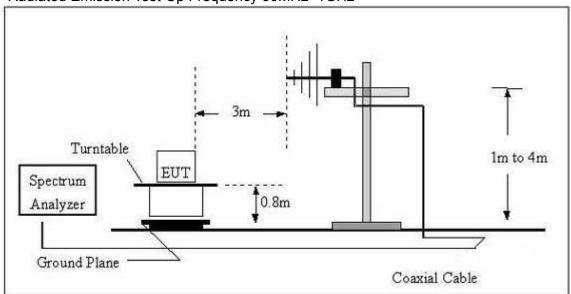


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

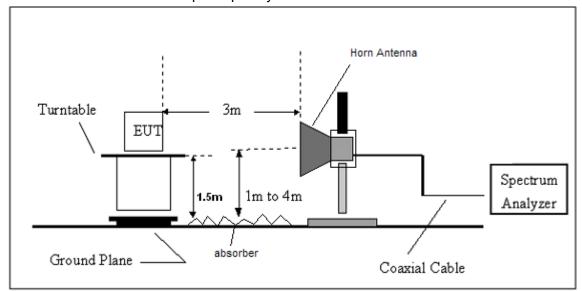


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Page 22 of 66 Report No.: PTS1506128121F

3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name. :	PAU05
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIAST VALISAD .	DC 5.0V from notebook AC120V/60Hz
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.

Page 23 of 66 Report No.: PTS1506128121F

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

IEIJI .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode:	TX		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	72.0841	26.73	6.28	33.01	40.00	-6.99	QP
V	105.2716	21.77	10.96	32.73	43.50	-10.77	QP
V	245.9507	26.51	12.44	38.95	46.00	-7.05	QP
Н	112.5241	20.55	11.55	32.1	43.50	-11.40	QP
Н	222.9499	25.49	10.11	35.6	46.00	-10.40	QP
Н	760.7036	13.79	24.36	38.15	46.00	-7.85	QP

Remark:



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре	
	operation frequency:2412							
V	4824.642	67.44	-3.60	63.84	74.00	-10.16	Pk	
V	4824.642	46.28	-3.60	42.68	54.00	-11.32	AV	
Н	4825.246	66.95	-3.58	63.37	74.00	-10.63	Pk	
Н	4825.246	43.26	-3.58	39.68	54.00	-14.32	AV	

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре	
	operation frequency:2437							
V	4874.549	65.19	-3.64	61.55	74.00	-12.45	Pk	
V	4874.549	42.57	-3.64	38.93	54.00	-15.07	AV	
Н	4875.184	64.28	-3.64	60.64	74.00	-13.36	Pk	
Н	4875.184	41.17	-3.64	37.53	54.00	-16.47	AV	

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11b

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2462								
V	4925.016	56.39	-3.64	52.75	74.00	-21.25	pk		
H	4923.864	55.48	-3.66	51.82	74.00	-22.18	pk		

Remark:



802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2412								
V	4823.618	62.57	-3.6	58.97	74.00	-15.03	Pk		
V	4823.618	40.61	-3.6	37.01	54.00	-16.99	AV		
Н	4824.197	63.22	-3.6	59.62	74.00	-14.38	Pk		
Н	4824.197	42.08	-3.6	38.48	54.00	-15.52	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2437								
V	4873.291	63.17	-3.63	59.54	74.00	-14.46	Pk		
V	4873.291	41.24	-3.63	37.61	54.00	-16.39	AV		
Н	4874.609	60.48	-3.64	56.84	74.00	-17.16	Pk		
Н	4874.609	40.83	-3.64	37.19	54.00	-16.81	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11g

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector			
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре			
	operation frequency:2462									
V	4924.527	55.21	-3.60	51.61	74.00	-22.39	pk			
Н	4923.256	56.09	-3.66	52.43	74.00	-21.57	pk			

Remark:



802.11n(20MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2412								
V	4825.307	62.18	-3.58	58.6	74.00	-15.40	Pk		
V	4825.307	41.97	-3.58	38.39	54.00	-15.61	AV		
Н	4824.592	61.27	-3.60	57.67	74.00	-16.33	Pk		
Н	4824.592	39.58	-3.60	35.98	54.00	-18.02	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(20MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2437								
V	4875.627	63.17	-3.63	59.54	74.00	-14.46	Pk		
V	4875.627	41.24	-3.63	37.61	54.00	-16.39	AV		
Н	4873.834	60.48	-3.64	56.84	74.00	-17.16	Pk		
Н	4873.834	40.83	-3.64	37.19	54.00	-16.81	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(20MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
		ор	eration fre	equency:2462			
V	4922.907	59.67	-3.64	56.03	74.00	-17.97	pk
V	4922.907	37.19	-3.64	33.55	54.00	-20.45	AV
Н	4925.648	55.94	-3.66	52.28	74.00	-21.72	pk

Remark:



802.11n(40MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2422								
V	4845.429	65.27	-3.53	61.74	74.00	-12.26	Pk		
V	4845.429	44.28	-3.53	40.75	54.00	-13.25	AV		
Н	4843.291	66.97	-3.54	63.43	74.00	-10.57	Pk		
Н	4843.291	40.58	-3.54	37.04	54.00	-16.96	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(40MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector		
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре		
	operation frequency:2437								
V	4873.608	63.82	-3.64	60.18	74.00	-13.82	Pk		
V	4873.608	40.17	-3.64	36.53	54.00	-17.47	AV		
Н	4876.059	62.84	-3.64	59.2	74.00	-14.8	Pk		
Н	4876.059	39.56	-3.64	35.92	54.00	-18.08	AV		

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Limit- Absolute Level

802.11n(40MHz)

Normal Voltage

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector			
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре			
	operation frequency:2452									
V	4902.872	59.84	-3.75	56.09	74.00	-17.91	pk			
V	4902.872	41.27	-3.75	37.52	54.00	-16.48	AV			
Н	4905.247	61.85	-3.74	58.11	74.00	-15.89	pk			
Н	4905.247	40.17	-3.74	36.43	54.00	-17.57	pk			

Remark:

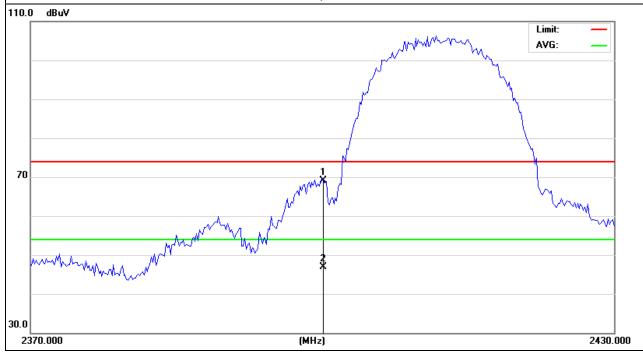


Band Edge Emission:

HUI.	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	82.19	-12.99	69.2	74	-4.8	peak
2400	59.82	-12.99	46.83	54	-7.17	AVG

Remark:



Panda Wireless® 300Mbps



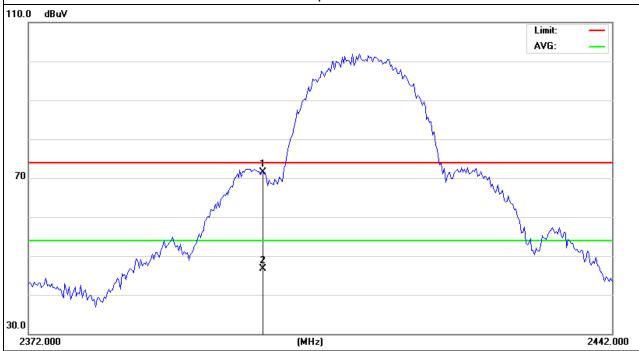
Model Name : PALI05

Report No.: PTS1506128121F

H-111	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	84.39	-12.99	71.4	74	-2.6	peak
2400	59.62	-12.99	46.63	54	-7.37	AVG

Remark:

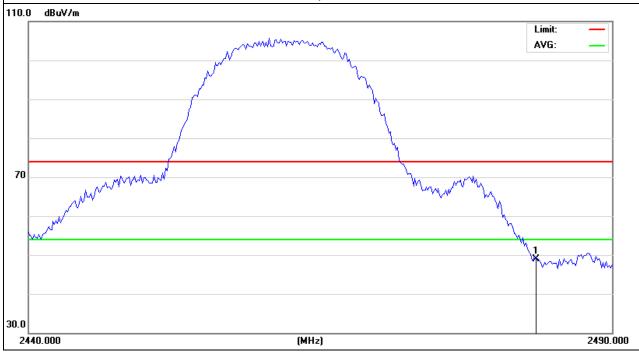


Page 30 of 66 Report No.: PTS1506128121F

HIII .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

	Matan Dandina	Carter.	Fasianian Laurel	Linette	Manada	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	61.68	-12.78	48.9	74	-25.1	peak

Remark:



Page 31 of 66 Report No.: PTS1506128121F

 -	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	62.18	-12.78	49.4	74	-24.6	peak

Remark:

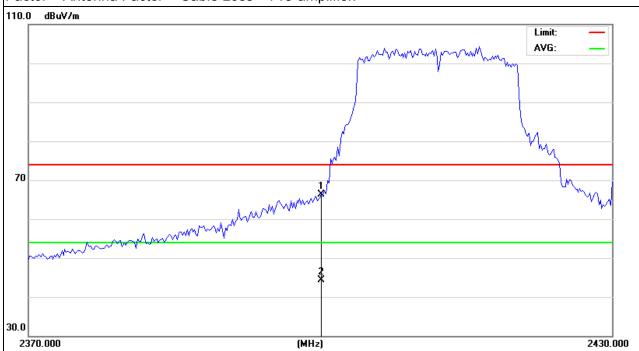


Page 32 of 66 Report No.: PTS1506128121F

E	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	79.32	-12.99	66.33	74	-7.67	peak
2400	57.27	-12.99	44.28	54	-9.72	AVG

Remark:



Page 33 of 66 Report No.: PTS1506128121F

IEIII	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tyna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	83.59	-12.99	70.6	74	-3.4	peak
2400	60.37	-12.99	47.38	54	-6.62	AVG

Remark:

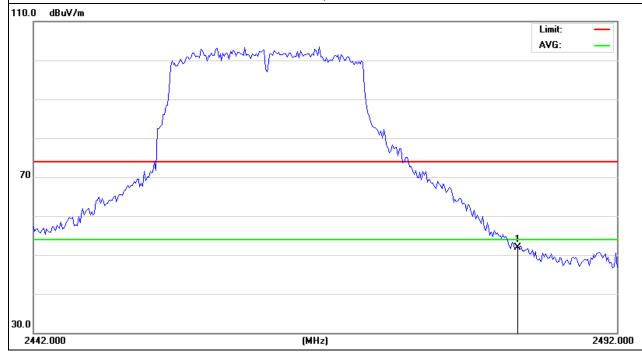


Page 34 of 66 Report No.: PTS1506128121F

IEIII	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	64.68	-12.78	51.9	74	-22.1	peak

Remark:

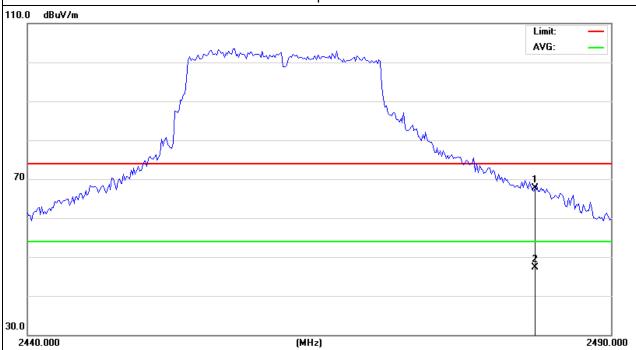


Page 35 of 66 Report No.: PTS1506128121F

IEIII	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	80.4	-12.78	67.62	74	-6.38	peak
2483.5	60.15	-12.78	47.37	54	-6.63	AVG

Remark:

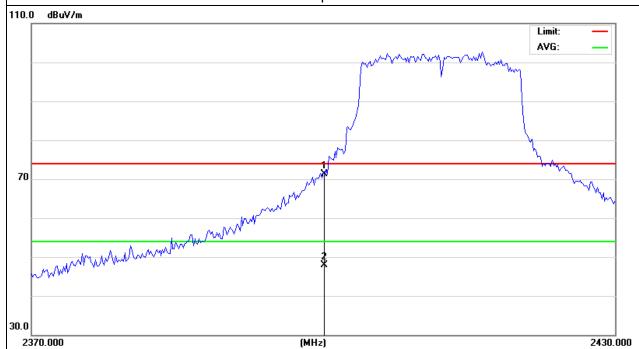


Page 36 of 66 Report No.: PTS1506128121F

IEIII	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH1(802.11n Mode/20MHz)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2400	84.29	-12.99	71.3	74	-2.7	peak
2400	60.84	-12.99	47.85	54	-6.15	AVG

Remark:

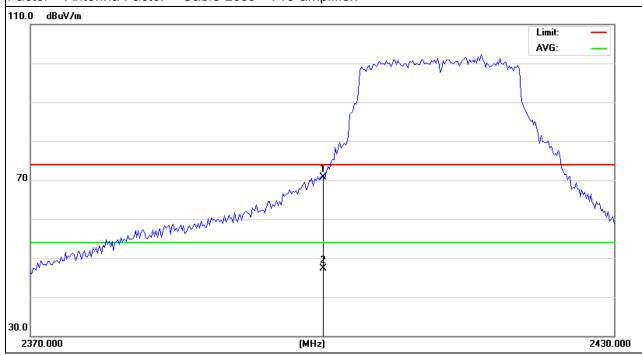


Page 37 of 66 Report No.: PTS1506128121F

I - I I I	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05	
Temperature :	20 ℃	Relative Humidity:	48%	
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook	
Test Mode :	CH1(802.11n Mode/20MHz)	Polarization :	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Tyna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	83.79	-12.99	70.8	74	-3.2	peak
2400	60.33	-12.99	47.34	54	-6.66	AVG

Remark:

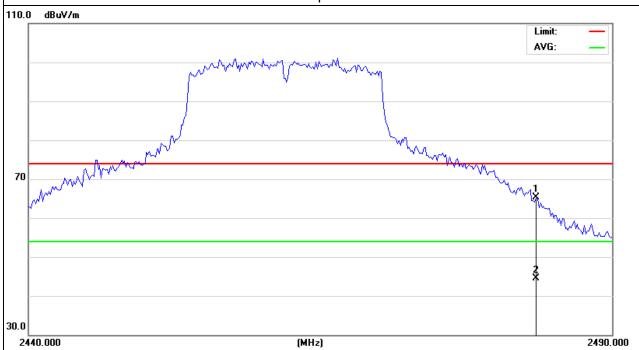


Page 38 of 66 Report No.: PTS1506128121F

 -	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11n Mode/20MHz)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	78.11	-12.78	65.33	74	-8.67	peak
2483.5	57.19	-12.78	44.41	54	-9.59	AVG

Remark:

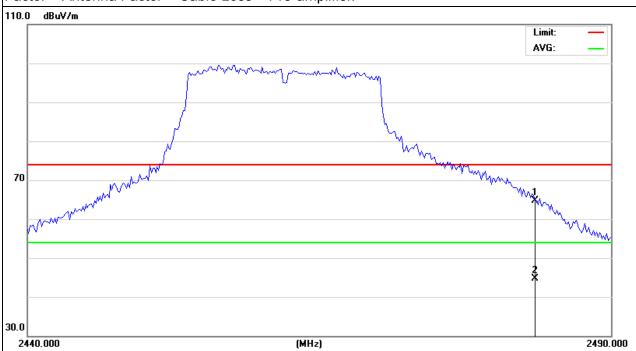


Page 39 of 66 Report No.: PTS1506128121F

E	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH11(802.11n Mode/20MHz)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	77.54	-12.78	64.76	74	-9.24	peak
2483.5	57.46	-12.78	44.68	54	-9.32	AVG

Remark:

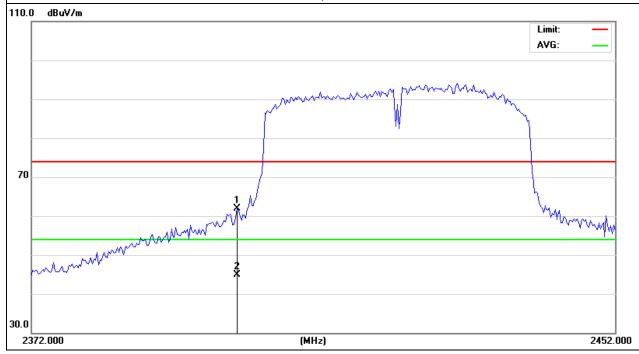


Page 40 of 66 Report No.: PTS1506128121F

I - I I I	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH3(802.11n Mode/40MHz)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	74.99	-12.99	62	74	-12	peak
2400	57.83	-12.99	44.84	54	-9.16	AVG

Remark:





EUT:

Temperature:

Pressure:

Model Name : PAU05 Relative Humidity: 48%

DC 5.0V from notebook

Report No.: PTS1506128121F

Test Voltage : Test Mode : CH3(802.11n Mode/40MHz) Polarization: Vertical

Panda Wireless® 300Mbps

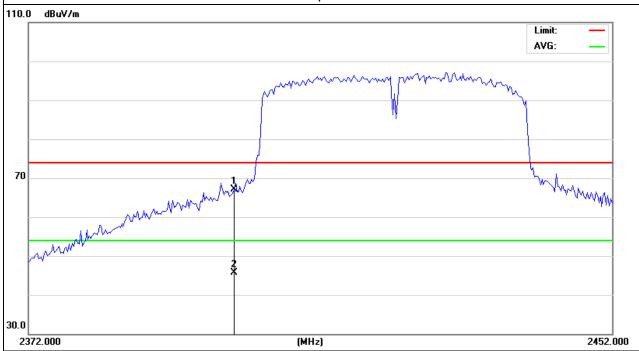
Wireless N USB Adapter

20 ℃

1010 hPa

	1		·		ı	ı
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2400	80.11	-12.99	67.12	74	-6.88	peak
2400	58.62	-12.99	45.63	54	-8.37	AVG

Remark:

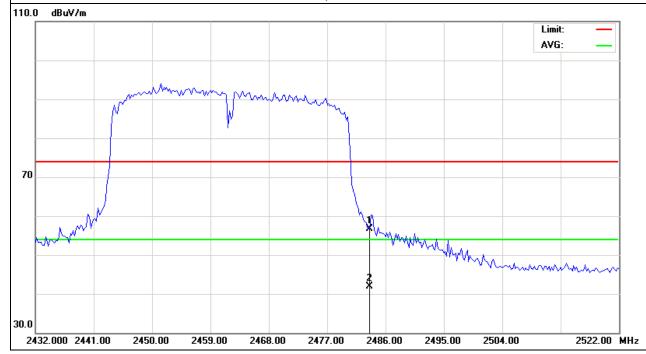


Page 42 of 66 Report No.: PTS1506128121F

E	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH9(802.11n Mode/40MHz)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	69.42	-12.78	56.64	74	-17.36	peak
2483.5	54.61	-12.78	41.83	54	-12.17	AVG

Remark:

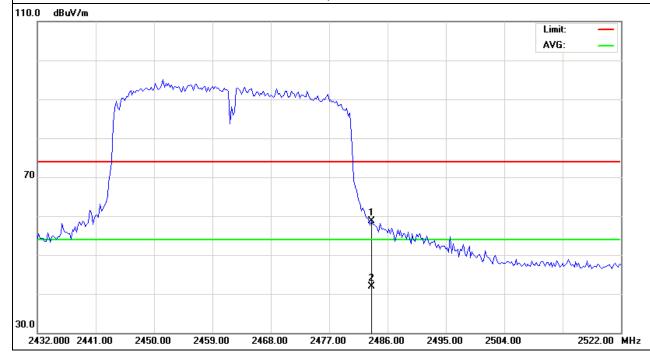


Page 43 of 66 Report No.: PTS1506128121F

	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	CH9(802.11n Mode/40MHz)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotostor Typo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.5	71.58	-12.78	58.8	74	-15.2	peak
2483.5	54.78	-12.78	42	54	-12	AVG

Remark:





4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW ≥ 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

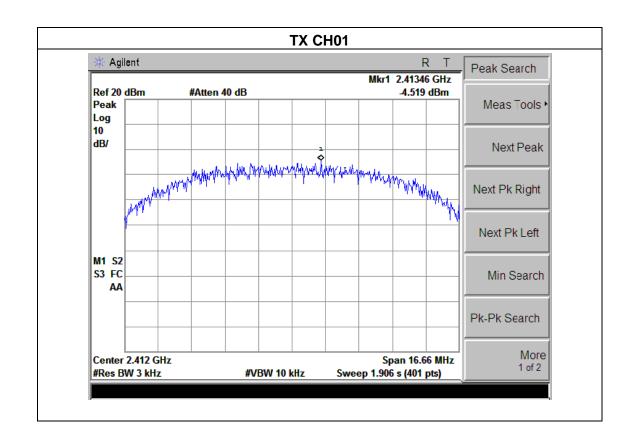
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.



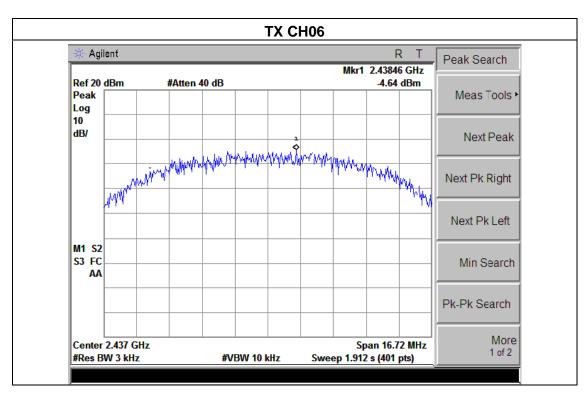
4.1.5 TEST RESULTS

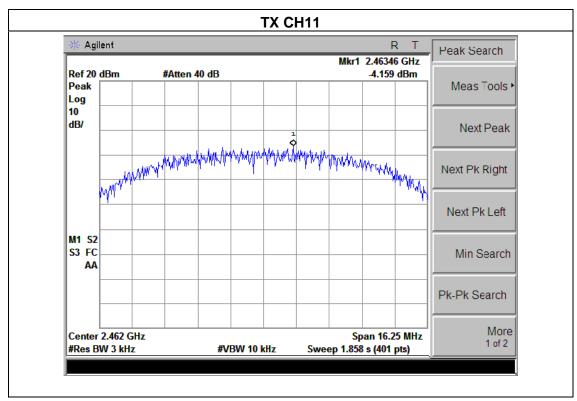
	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-4.52	8	PASS
2437 MHz	-4.64	8	PASS
2462 MHz	-4.16	8	PASS







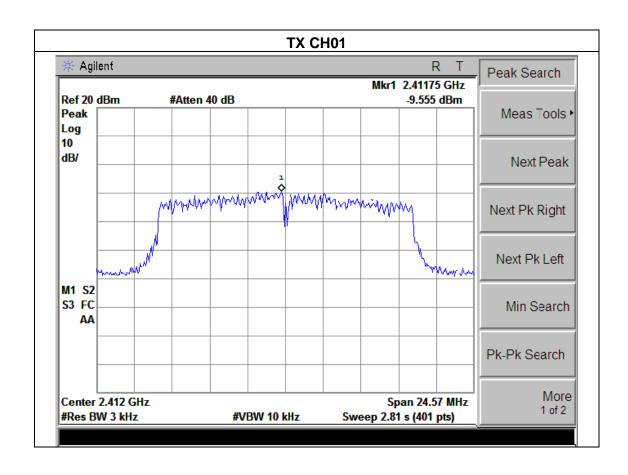




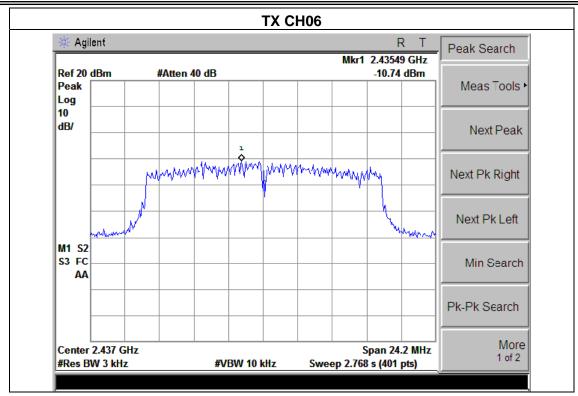
Page 47 of 66 Report No.: PTS1506128121F

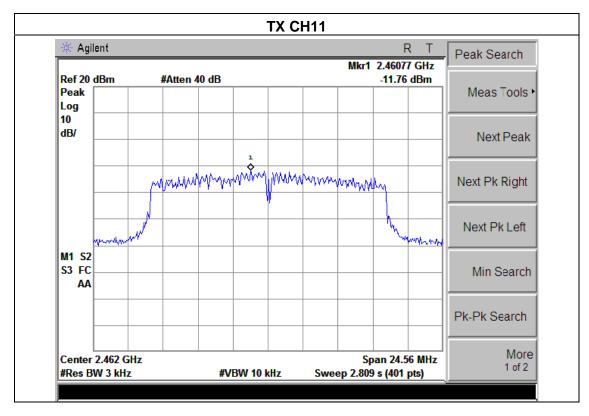
FIII .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX g Mode /CH01, CH06, CH1	1	

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-9.55	8	PASS
2437 MHz	-10.74	8	PASS
2462 MHz	-11.76	8	PASS







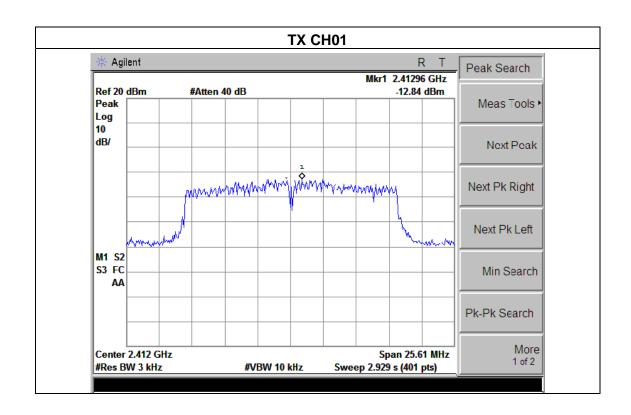




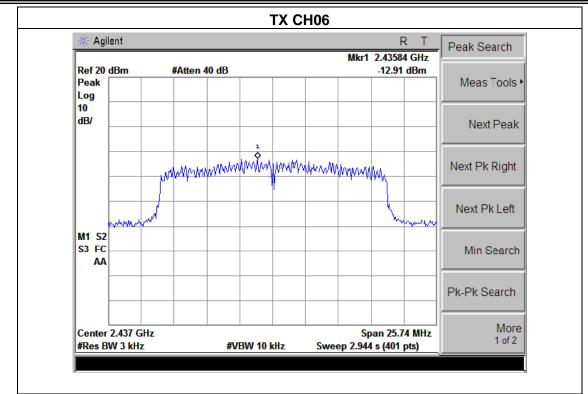
Page 49 of 66 Report No.: PTS1506128121F

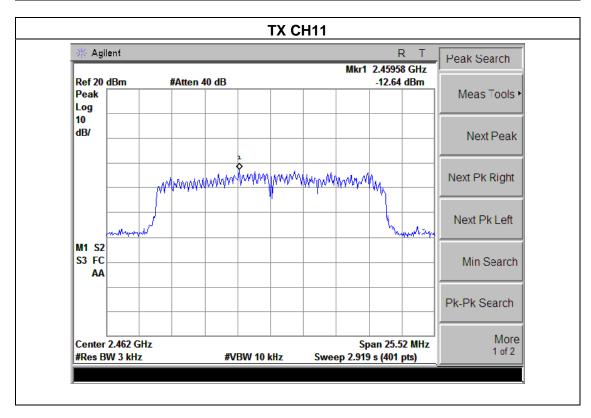
IEUI .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.84	8	PASS
2437 MHz	-12.91	8	PASS
2462 MHz	-12.64	8	PASS







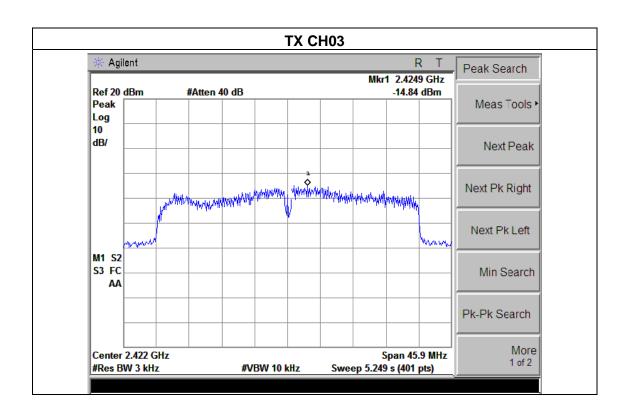




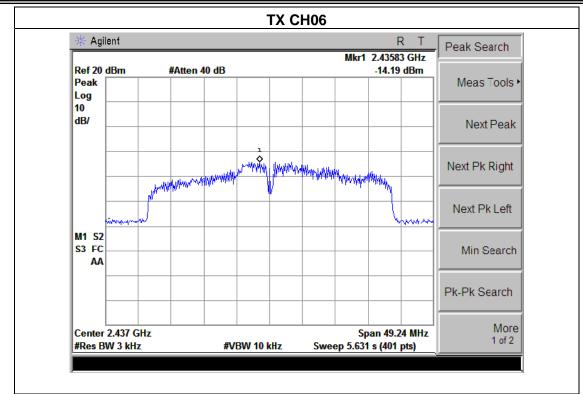
Page 51 of 66 Report No.: PTS1506128121F

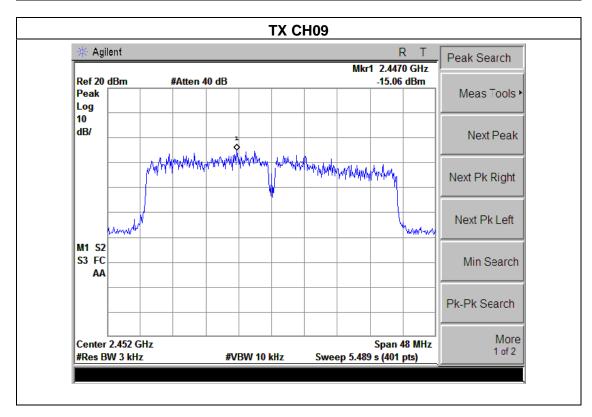
FIII	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.84	8	PASS
2437 MHz	-14.19	8	PASS
2462 MHz	-15.06	8	PASS











5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

5.1.1 TEST PROCEDURE

- 1. Set resolution bandwidth (RBW) = 1-5% or DTS BW, not to exceed 100 kHz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

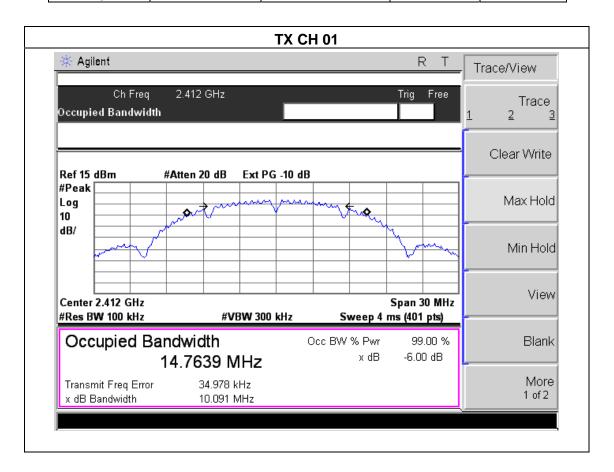
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



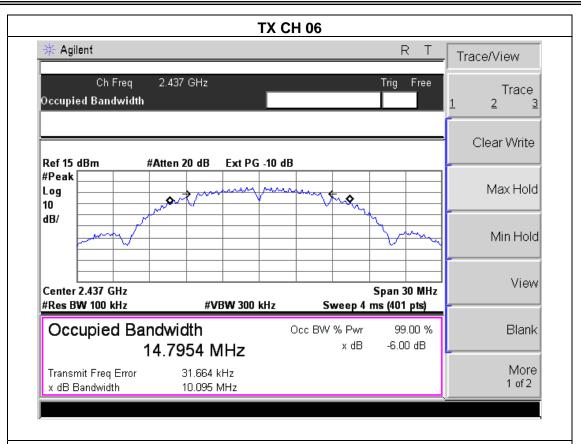
5.1.5 TEST RESULTS

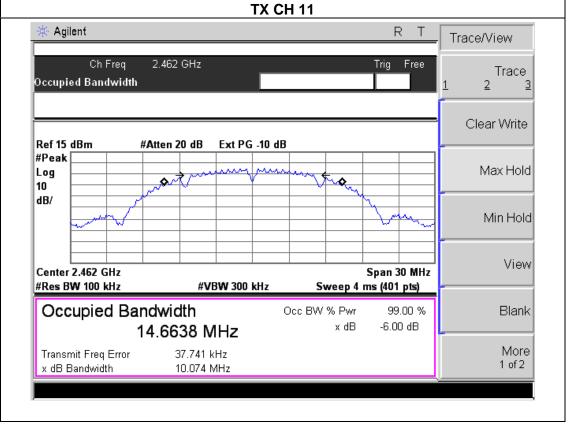
EUT:	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX b Mode /CH01, CH06, CH1	1	

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.10	500	Pass
Middle	2437	10.10	500	Pass
High	2462	10.07	500	Pass







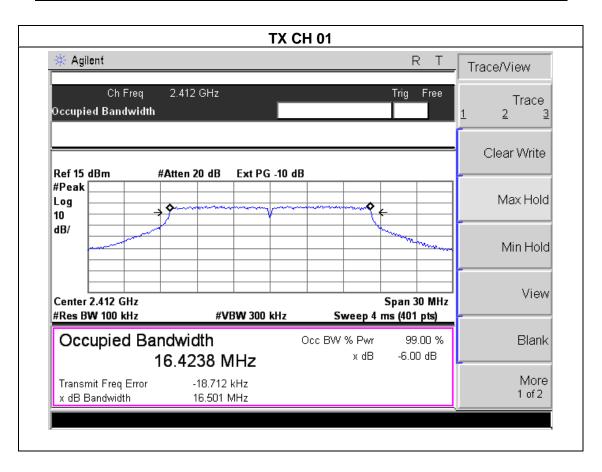


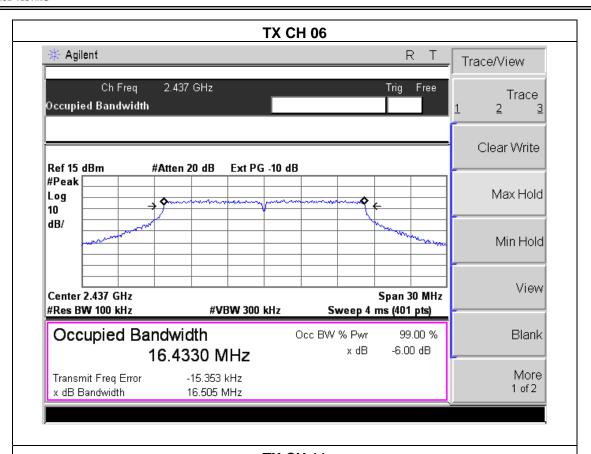


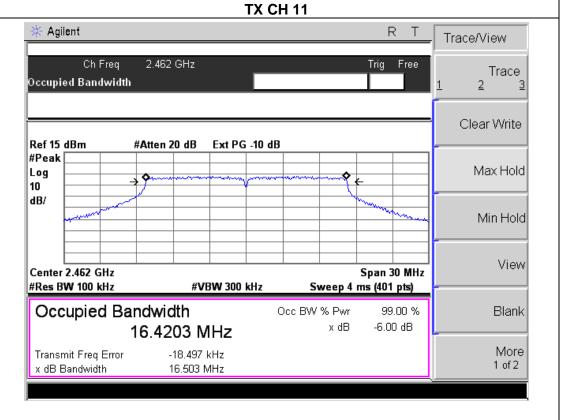
Page 56 of 66 Report No.: PTS1506128121F

H-111 .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.50	500	Pass
Middle	2437	16.51	500	Pass
High	2462	16.50	500	Pass





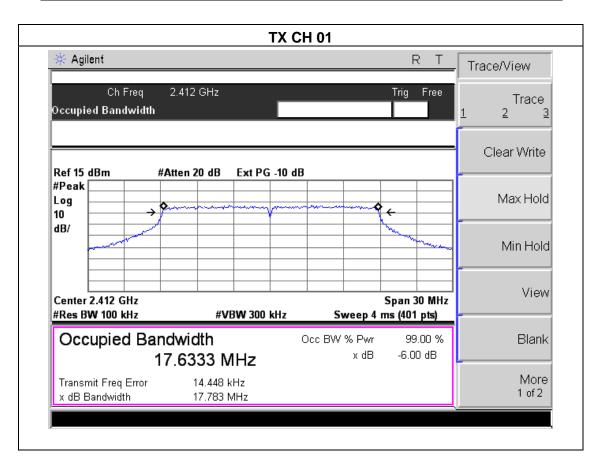




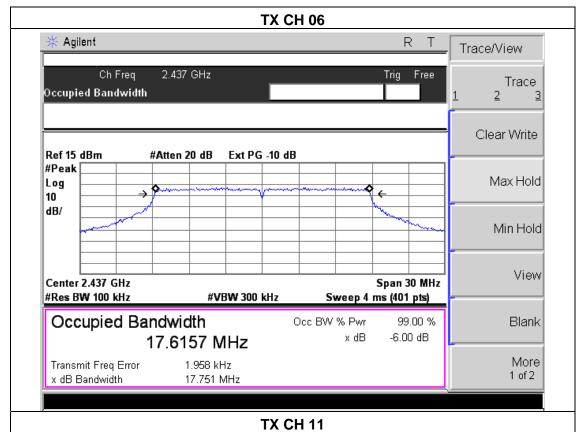
Page 58 of 66 Report No.: PTS1506128121F

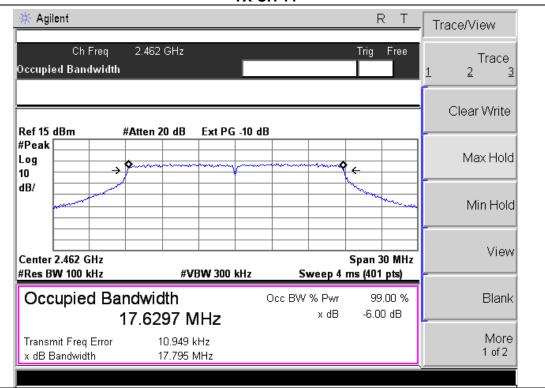
I=111 .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.78	500	Pass
Middle	2437	17.75	500	Pass
High	2462	17.80	500	Pass







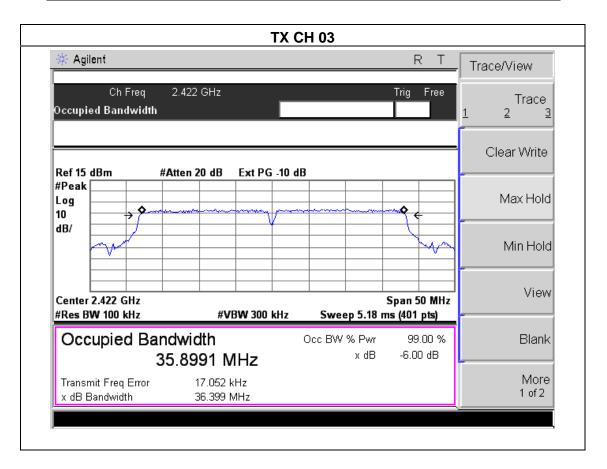




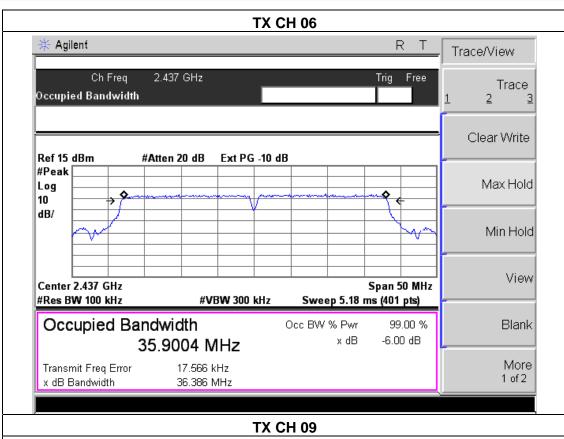
Page 60 of 66 Report No.: PTS1506128121F

IF() .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

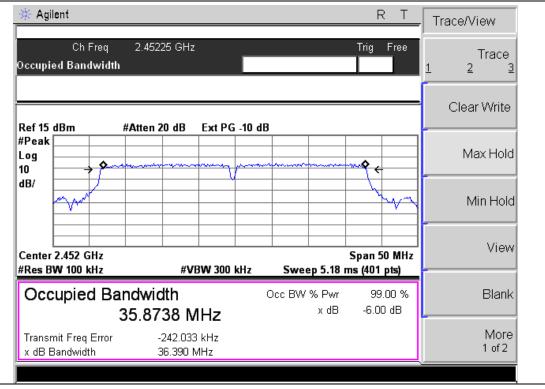
Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2422	36.40	500	Pass
Middle	2437	36.39	500	Pass
High	2452	36.39	500	Pass







Page 61 of 66





6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Section Test Item Limit Frequency Range (MHz) Resu			
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

Page 63 of 66 Report No.: PTS1506128121F

6.1.5 TEST RESULTS

IP () .	Panda Wireless® 300Mbps Wireless N USB Adapter	Model Name :	PAU05
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 5.0V from notebook
Test Mode :	TX b/g/n(20M, 40M)		

	TX 802.11b Mode				
Test Channe	Frequency	PK output power. Antenna port	AV output power. Antenna port	LIMIT	
Chamie	(MHz)	(dBm)	(dBm)	dBm	
CH01	2412	19.25	18.13	30	
CH06	2437	19.36	18.06	30	
CH11	2462	19.56	18.32	30	
		TX 8	802.11g Mode		
CH01	2412	16.23	15.43	30	
CH06	2437	16.36	15.24	30	
CH11	2462	16.47	15.33	30	
		TX 802	2.11n/20M Mode		
CH01	2412	14.21	13.44	30	
CH06	2437	14.31	13.32	30	
CH11	2462	14.56	13.61	30	
	TX 802.11n/40M Mode				
CH03	2422	14.99	14.22	30	
CH06	2437	14.22	13.56	30	
CH09	2452	14.28	13.21	30	



7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

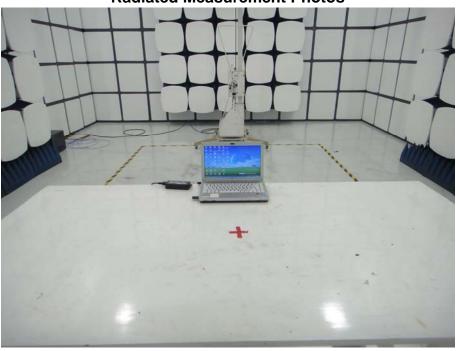
7.2 EUT ANTENNA

The EUT antenna is Integrated(PCB) antenna. It comply with the standard requirement.



8. EUT TEST PHOTO





Radiated Measurement Photos







