







#### ISO/IEC17025Accredited Lab.

Report No: FCC 1308032 File reference No: 2013-08-21

Applicant: Shenzhen Jin Xing Yuan Tong Digital Technology Co., Ltd.

Product: GAME PAD

Model No: S7300B, S7300A, S601, S602, S602B, S603, S5100, S5110,

\$5110B, \$5300, \$6600, \$6600B, \$7100, \$7108, \$7109, \$5800, \$7800A, \$7800B, \$9100, \$9300, \$91000, \$91000B, \$91000C, \$91000S, \$91000D, \$91000B, \$91000C, \$91000D, \$91000B, \$91000C, \$91000D, \$91000B, \$91000D, \$9100D, \$910D, \$

S7900, P2000, P2000B, P3000, P3000B

Trademark: JXD

Test Standards: FCC Part 15 Subpart C, Paragraph 15.247

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4,FCC Part 15 Subpart C,

Paragraph 15.247 regulations for the evaluation of

electromagnetic compatibility

Approved By

Jack Chung

Jack Chung Manager

Dated: August 21, 2013

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

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

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# **Special Statement:**

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

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

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

# **CNAL-LAB Code: L2292**

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

# FCC-Registration No.: 899988

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

#### IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

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

Shenzhen, CHINA.

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Site on File with the Federal Communications Commission – United Sates

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

#### 1.2 Applicant Details

Applicant: Shenzhen Jin Xing Yuan Tong Digital Technology Co., Ltd.

Address: 5/F, 1 Block, NO.3 Road ShangMeiLin Futian District, Shenzhen (5/F,ShengJie Bldg.)

Telephone: 0755-83973170 Fax: 0755-83313116

# 1.3 Description of EUT

Product: GAME PAD

Manufacturer: Shenzhen Jin Xing Yuan Tong Digital Technology Co., Ltd.

Address: 5/F, 1 Block, NO.3 Road ShangMeiLin Futian District, Shenzhen

(5/F, ShengJie Bldg.)

Brand Name: JXD
Additional Brand Name: N/A
Model Number: S7300B

Additional Model Number: \$7300A, \$601, \$602, \$602B, \$603, \$5100, \$5110, \$5110B, \$5300, \$6600, \$6600B, \$7100, \$7108, \$7109, \$5800, \$7800A, \$7800B, \$9100, \$9300, \$91000, \$91000B, \$91000C, \$91000B, \$91000D, \$5800B, \$7800C, \$91000B, \$91000, \$91000B, \$9100B, \$91000B, \$91000B, \$91000B, \$91000B, \$91000B, \$91000B, \$91000B, \$91000B, \$9100B, \$9

Type of Modulation IEEE 802.11b : DSSS (CCK, QPSK, DBPSK)

IEEE 802.11g/n (HT20/HT40): OFDM(64QAM, 16QAM, QPSK, BPSK)

Frequency range IEEE 802.11b/g/n (HT20) : 2412-2462MHz;

IEEE 802.11n HT40 : 2422MHz-2452MHz

Channel Spacing IEEE 802.11b/g/n (HT20) : 5MHz Air Data Rate IEEE 802.11b : 11, 5.5, 2, 1 Mbps

IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps

IEEE 802.11n HT20: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps IEEE 802.11n HT40: 150, 117, 104, 78, 65, 58.5, 52, 39, 26, 19.5, 13, 6 Mbps

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

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Frequency Selection By software

Channel Number IEEE 802.11b/g/n (HT20): 11 Channels

IEEE 802.11n HT40: 7 Channels

Antenna: Integral antenna, the antenna gain is 2.2dBi

Power Supply: Model No.: BSYB050200V W

Input: 100-240V~50/60Hz, 0.4A; Output: 5V, 2A

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2013-08-08 to 2013-08-18

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0	Test Equipments							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2012-08-21	2013-08-20			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2012-08-21	2013-08-20			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2012-08-21	2013-08-20			
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2012-08-21	2013-08-20			
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2012-08-21	2013-08-20			
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-08-21	2013-08-20			
System Controller	CT	SC100	-					
Printer	EPSON	РНОТО ЕХЗ	CFNH234850					
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-			
Loop Antenna	EMCO	6502	00042960	2012-08-21	2013-08-20			
Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-08-21	2013-08-20			
3m OATS			N/A	2012-08-21	2013-08-20			
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-08-21	2013-08-20			
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2012-08-21	2013-08-20			
Power meter	Anritsu	ML2487A	6K00003613	2012-08-21	2013-08-20			
Power sensor	Anritsu	MA2491A	32263	2012-08-21	2013-08-20			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2012-08-21	2013-08-20			
LISN	AFJ	LS16C	10010947251	2012-08-21	2013-08-20			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-08-21	2013-08-20			
9*6*6 Anechoic			N/A	2012-08-21	2013-08-20			
EMI Test Receiver	RS	ESCS30	100139	2012-08-21	2013-08-20			
LISN	AFJ	LS16C	10010947251	2012-08-21	2013-08-20			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-08-21	2013-08-20			

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#### 2.1 **Auxiliary Equipment**

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
TF Card			Kingston		
Passive Earphone					
LCD Monitor	PH2450		SUMSANG		DOC

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#### 3. DESCRIPTION OF TEST MODES

## IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 11Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: 65Mbps data rate (worst case) were chosen for full testing

#### IEEE 802.11n HT40

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Mid	2437
High	2452

IEEE 802.11n HT40 mode: 65Mbps data rate (worst case) was chosen for full testing.

The worst-case data rates are determined according to the description above, based on the investigations by measuring the PSD and average power across all the data rates, bandwidths, modulations and spatial stream modes.

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#### 3.0 Technical Details

#### 3.1 Summary of test results

Standard	Test Type	Result	Notes
CC Part 15, Paragraph 15.107	<b>Conducted Emission Test</b>	PASS	Complies
& 15.207 & RSS-210 Issue 8			
	Spectrum bandwidth of a		Complies
FCC Part 15 Subpart C	Orthogonal Frequency		
Paragraph 15.247(a)(2) Limit &	<b>Division Multiplex System</b>	PASS	
RSS-210 Issue 8	Limit: 6dB		
	bandwidth>500kHz		
FCC Part 15, Paragraph	Maximum peak output		
15.247(b) & RSS-210 Issue 8	power	PASS	Complies
15.217(5) & 1655 210 15546 0	Limit: max. 30dBm		
FCC Part 15, Paragraph	Transmitter Radiated	PASS	Complies
15.109,15.205 & 15.209 &	Emission		
RSS-210 Issue 8	Limit: Table 15.209		
FCC Part 15, Paragraph	<b>Power Spectral Density</b>	PASS	Complies
15.247(e) & RSS-210 Issue 8	Limit: max. 8dBm		
FCC Part 15, Paragraph	Out of Band Emission and	PASS	Complies
15.247(d) & RSS-210 Issue 8	Restricted Band		
	Radiation		
	Limit: 20dB less than		
	peak value of fundamental		
	frequency		
	Restricted band limit:		
	<b>Table 15.209</b>		

#### 3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247 & RSS-210 Issue 8

#### 4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

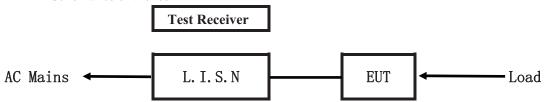
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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

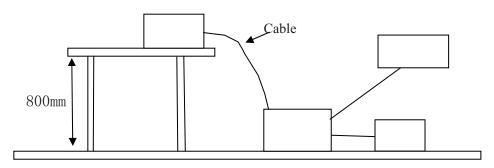


**EUT: Equipment Under Test** 

#### 5.2 Test Method and test Procedure

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

Test Voltage: 120V~, 60Hz Block diagram of Test setup



#### 5.3 Configuration of The EUT

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

#### A. EUT

Device	Manufacturer	FCC	
		\$7300B, \$7300A, \$601, \$602, \$602B, \$603,	2AAVS-S7300B
		S5100、S5110、S5110B、S5300、S6600、	
	Shenzhen Jin Xing	S6600B、S7100、S7108、S7109、S5800、	
GAME PAD	Yuan Tong Digital	S7800A、S7800B、S9100、P300、P1000、	
	Technology Co., Ltd.	P1000B、P1000C、P1000S、P1000D、S5800B、	
		S7800C、S7800D、S7600、S7900、P2000、	
		P2000B、P3000、P3000B	

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#### B. Internal Device

Device	Manufacturer	Model	Rating

#### C. Peripherals

Device	Manufacturer	Model	Rating

# 5.4 EUT Operating Condition

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

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

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

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

Notes:

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

# 5.6 Test Results

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

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# A: Conducted Emission on Live Terminal (150kHz to 30MHz)

# **EUT Operating Environment**

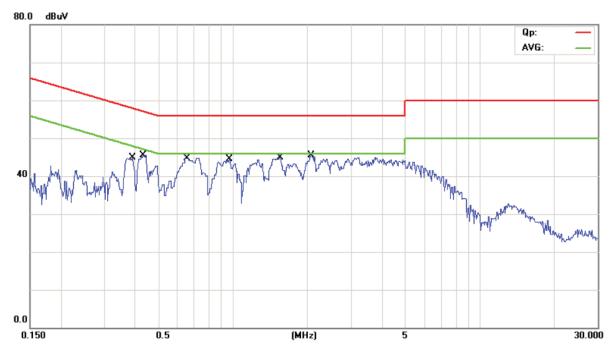
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.429	Live	43.90	30.40	57.27	47.27
0.388	Live	42.85	25.75	58.09	48.09
0.651	Live	42.63	28.43	56.00	46.00
0.966	Live	43.06	31.36	56.00	46.00
1.550	Live	43.02	26.12	56.00	46.00
2.067	Live	40.63	26.93	56.00	46.00

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# B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

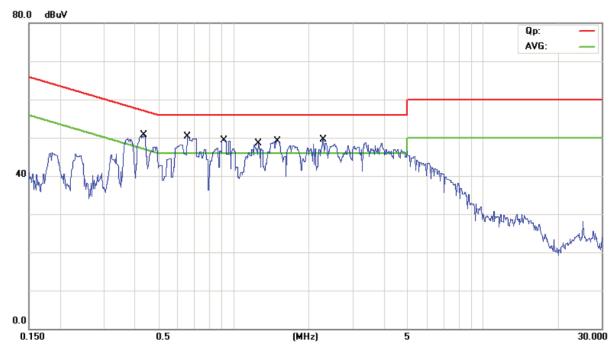
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBµV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.434	Neutral	48.20	25.10	57.17	47.17
0.655	Neutral	46.53	24.23	56.00	46.00
0.908	Neutral	45.70	23.40	56.00	46.00
1.256	Neutral	44.50	22.80	56.00	46.00
1.489	Neutral	45.40	22.80	56.00	46.00
2.283	Neutral	44.41	20.21	56.00	46.00

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#### 6 Radiated Emission Test

- 6.1 Test Method and test Procedure:
- (1) The EUT was tested according to ANSI C63.4 –2003. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization : Vertical polarization and Horizontal polarization.

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

- 6.2 Configuration of The EUT

  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.

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#### 6.4 Radiated Emission Limit

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

# Frequencies in restricted band are complied to limit on Paragraph 15.209 and 15.109 and RSS-210

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

Note:

- 1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
- 2. In the Above Table, the higher limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. This is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

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#### Test result

## General Radiated Emission Data and Harmonics Radiated Emission Data

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

**EUT set Condition: Keep Transmitting** 

**Results: Pass** 

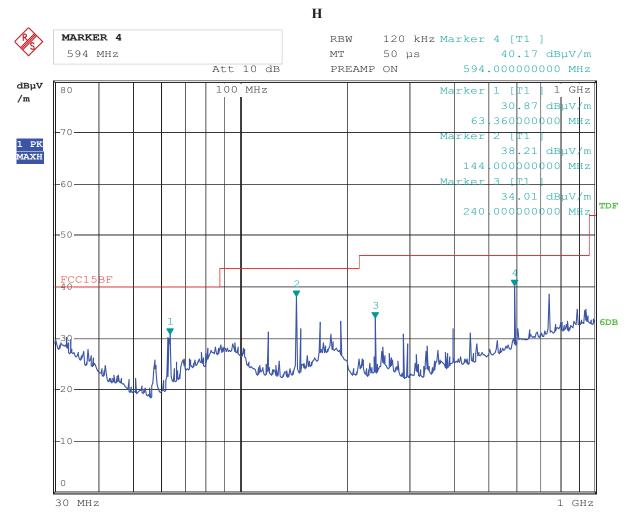
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
63.360	30.87	Н	40.00
144.000	38.21	Н	43.50
240.000	34.01	Н	46.00
594.000	40.17	Н	46.00
63.080	36.08	V	40.00
144.000	31.36	V	43.50
891.000	39.10	V	46.00
594.000	36.85	V	46.00

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# Test Figure:



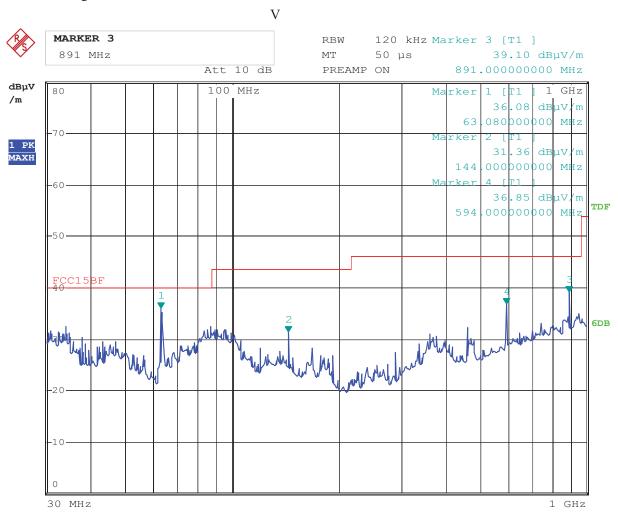
Date: 10.AUG.2013 18:13:14

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#### Test Figure:



Date: 10.AUG.2013 18:15:28

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# Operation Mode: Keeping Transmitting under CH01 for 11g at 6Mbps

Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
92.39 (PK)	Н	Fundamental Frequency
92.69 (PK)	V	Fundamental Frequency
	Н	74(Peak)/ 54(AV)
	V	74(Peak)/ 54(AV)
	H/V	74(Peak)/ 54(AV)
	92.39 (PK)	92.39 (PK)  92.69 (PK)   H   V   H/V   H/V   H/V   H/V   H/V   H/V   H/V   H/V

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

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

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# Operation Mode: Keeping Transmitting under CH06 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
2437.00	94.47 (PK)	Н	Fundamental Frequency
2437.00	94.44 (PK)	V	Fundamental Frequency
4874.00		Н	74(Peak)/ 54(AV)
4874.00		V	74(Peak)/ 54(AV)
7311.00		H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622		H/V	74(Peak)/ 54(AV)
17059		H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

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

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

#### Operation Mode: Transmitting under CH11 for 11g at 6Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2462.00	92.43 (PK)	Н	Fundamental Frequency
2462.00	92.36 (PK)	V	Fundamental Frequency
4924		Н	74(Peak)/ 54(AV)
4924		V	74(Peak)/ 54(AV)
7368	-	H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772	-	H/V	74(Peak)/ 54(AV)
17234	-	H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

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

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

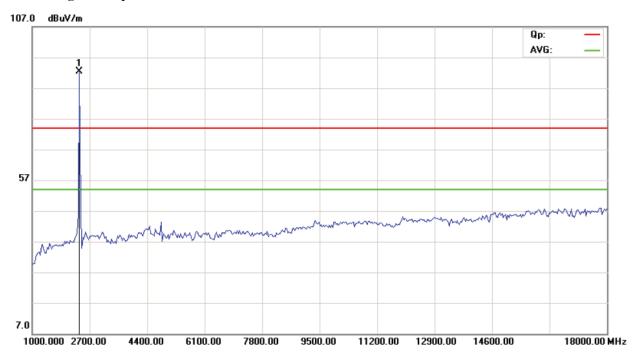
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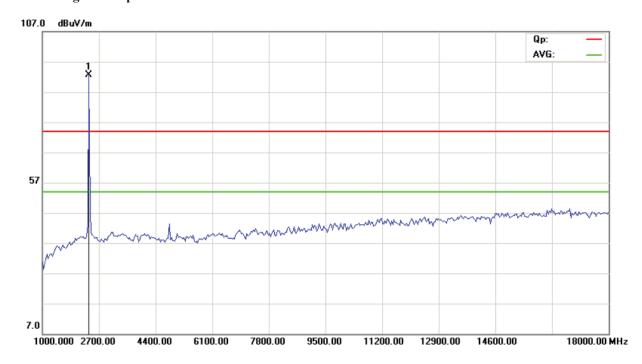


Please refer to the following test plots for details:

# CH01 for 11g at 6Mbps: Horizontal



# CH01 for 11g at 6Mbps: Vertical



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

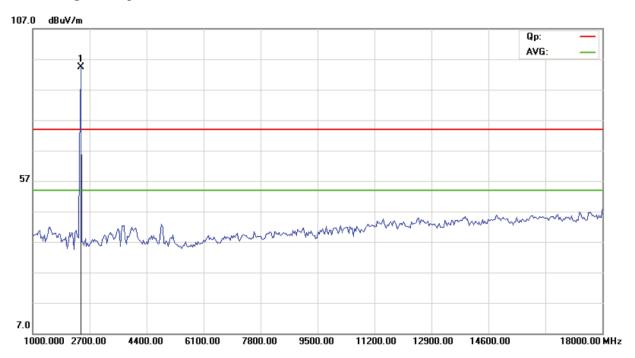
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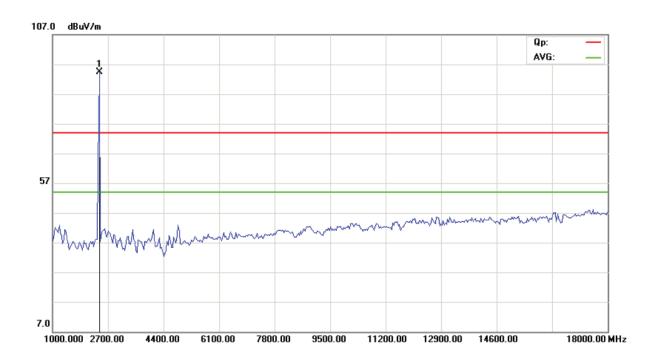
Report No: 1308032 Date: 2013-08-21



# CH06 for 11g at 6Mbps: Vertical



# CH06 for 11g at 6Mbps: Horizontal



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

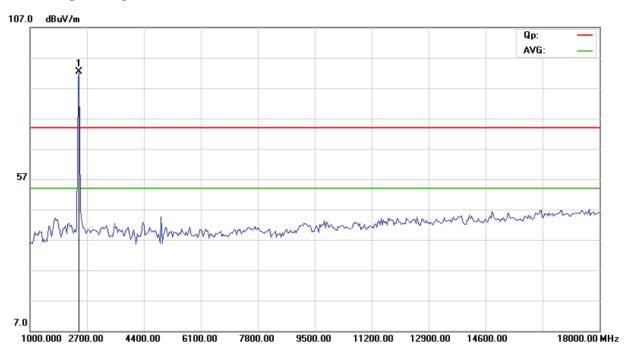
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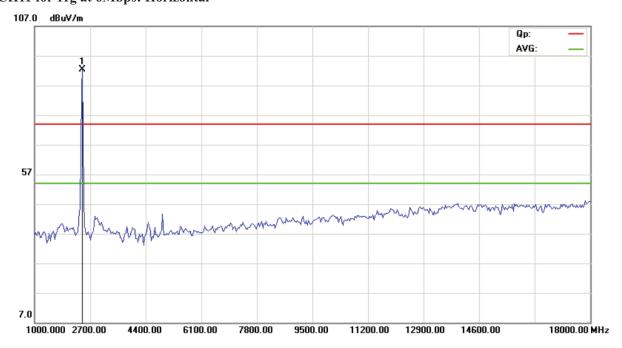
Report No: 1308032 Date: 2013-08-21



# CH11 for 11g at 6Mbps: Vertical



# CH11 for 11g at 6Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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# Operation Mode: Keeping Transmitting under CH01 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2412.00	94.28 (PK)	V	Even do mo out of Euro aven ove
2412.00	94.26 (PK)	Н	Fundamental Frequency
4824.00		Н	74(Peak)/ 54(AV)
4824.00		V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

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

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

# Operation Mode: Keeping Transmitting under CH06 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2437.00	93.63 (PK)	Н	Fundamental Frequency
2437.00	93.65 (PK)	V	Fundamental Frequency
4874.00	-	Н	74(Peak)/ 54(AV)
4874.00		V	74(Peak)/ 54(AV)
7311.00	-	H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185	-	H/V	74(Peak)/ 54(AV)
14622	-	H/V	74(Peak)/ 54(AV)
17059	-	H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

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

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

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# Operation Mode: Keeping Transmitting under CH11 for 11b at 11Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
2462.00	93.24 (PK)	Н	Fundamental Frequency
2462.00	93.45 (PK)	V	Fundamental Frequency
4924		Н	74(Peak)/ 54(AV)
4924		V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

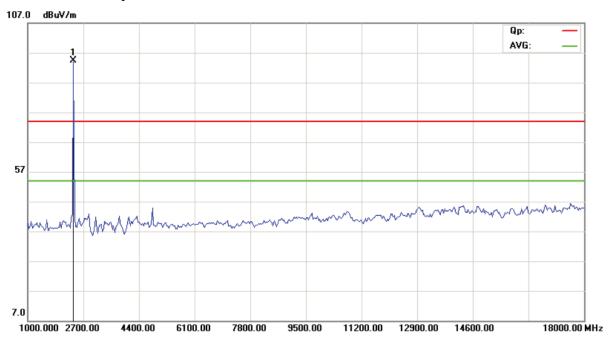
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

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

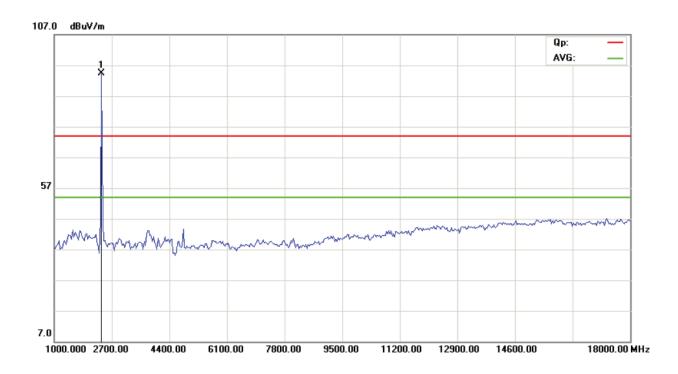


Please refer to the following test plots for details:

# CH01 for 11b at 11Mbps: Horizontal



# CH01 for 11b at 11Mbps: Vertical



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

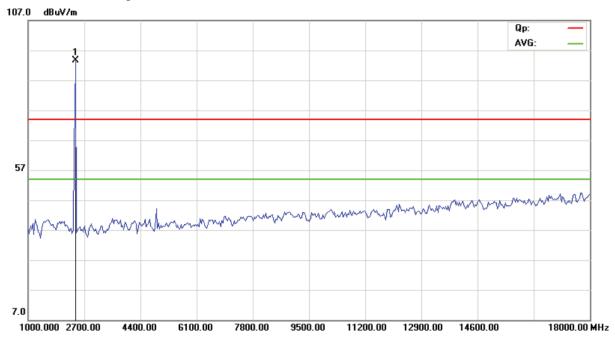
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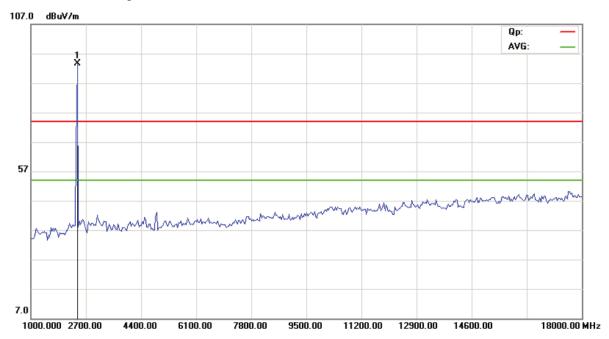
Report No: 1308032 Date: 2013-08-21



# CH06 for 11b at 11Mbps: Vertical

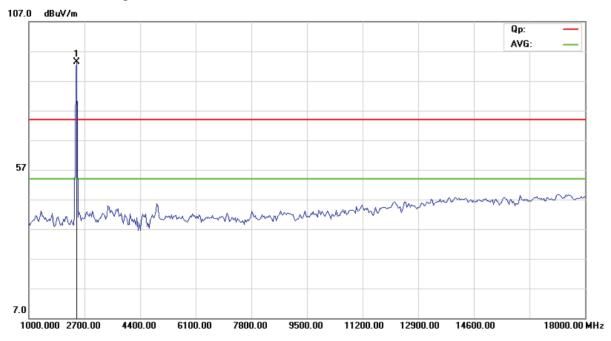


# CH06 for 11b at 11Mbps: Horizontal

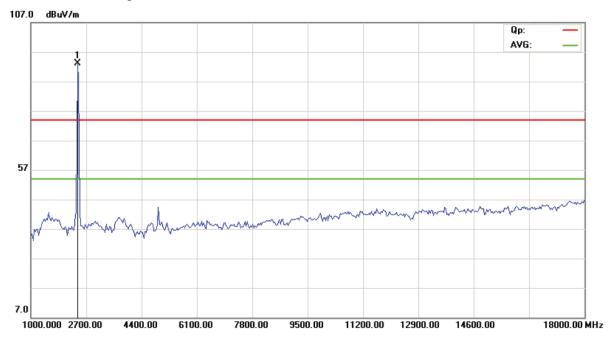




# CH11 for 11b at 11Mbps: Vertical



# CH11 for 11b at 11Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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# Operation Mode: Keeping Transmitting under CH01 for 11n HT20 at 65Mbps

	1 0		
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2412.00	93.36 (PK)	Н	Even domental Engavenery
2412.00	93.42 (PK)	V	Fundamental Frequency
4824.00		Н	74(Peak)/ 54(AV)
4824.00		V	74(Peak)/ 54(AV)
7236.00		H/V	74(Peak)/ 54(AV)
9648.00		H/V	74(Peak)/ 54(AV)
12060		H/V	74(Peak)/ 54(AV)
14472		H/V	74(Peak)/ 54(AV)
16684		H/V	74(Peak)/ 54(AV)
19296		H/V	74(Peak)/ 54(AV)
21708		H/V	74(Peak)/ 54(AV)
24120		H/V	74(Peak)/ 54(AV)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

#### Operation Mode: Keeping Transmitting under CH06 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2437.00	92.55 (PK)	Н	Fundamental Frequency
2437.00	92.51 (PK)	V	Fundamental Frequency
4874.00		Н	74(Peak)/ 54(AV)
4874.00		V	74(Peak)/ 54(AV)
7311.00	-	H/V	74(Peak)/ 54(AV)
9748.00		H/V	74(Peak)/ 54(AV)
12185	-	H/V	74(Peak)/ 54(AV)
14622	-	H/V	74(Peak)/ 54(AV)
17059	-	H/V	74(Peak)/ 54(AV)
19496		H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

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# Operation Mode: Keeping Transmitting under CH11 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03bc V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2462.00	94.12 (PK)	Н	E 14-1 E
2462.00	94.31 (PK)	V	Fundamental Frequency
4924		Н	74(Peak)/ 54(AV)
4924		V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310		H/V	74(Peak)/ 54(AV)
14772		H/V	74(Peak)/ 54(AV)
17234		H/V	74(Peak)/ 54(AV)
19696		H/V	74(Peak)/ 54(AV)
22158		H/V	74(Peak)/ 54(AV)
24650		H/V	74(Peak)/ 54(AV)

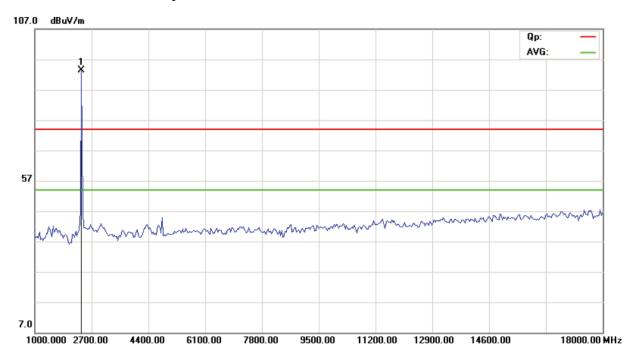
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT20) mode 65Mbps

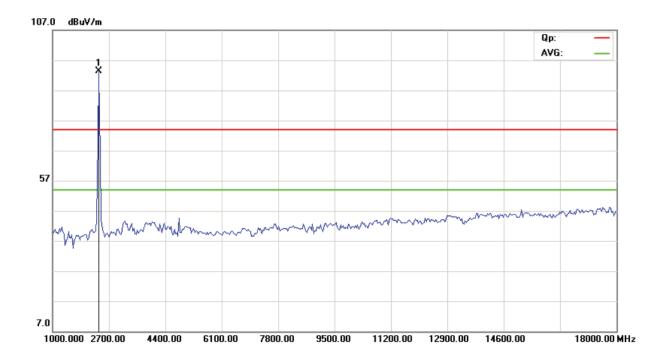


Please refer to the following test plots for details:

# CH01 for 11n HT20 at 65Mbps: Horizontal



# CH01 for 11n HT20 at 65Mbps: Vertical

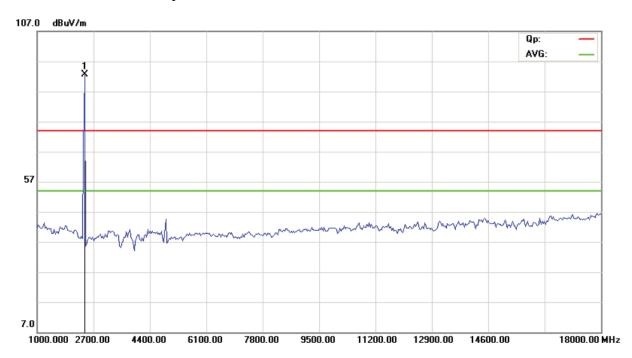


The report refers only to the sample tested and does not apply to the bulk.

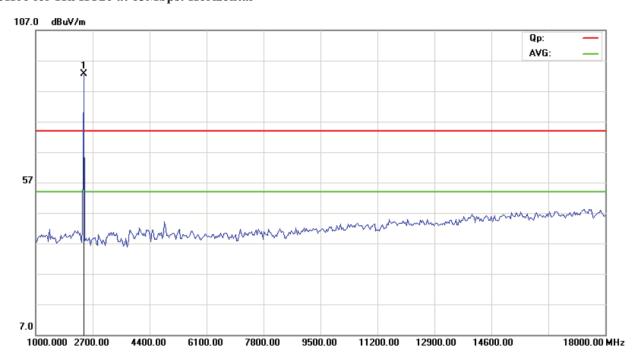
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# CH06 for 11n HT20 at 65Mbps: Vertical



#### CH06 for 11n HT20 at 65Mbps: Horizontal

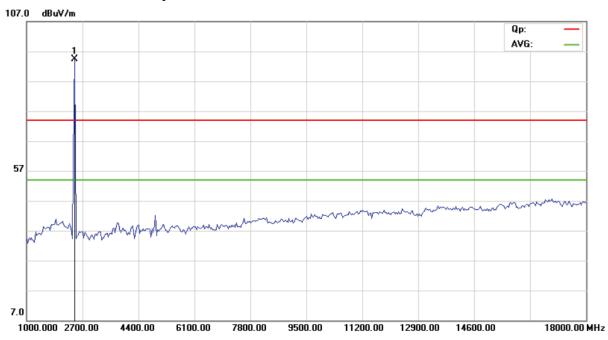


The report refers only to the sample tested and does not apply to the bulk.

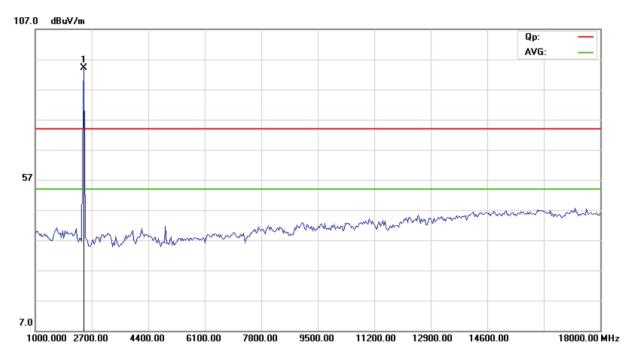
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# CH11 for 11n HT20 at 65Mbps: Vertical



# CH11 for 11n HT20 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

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# Operation Mode: Transmitting under CH01 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB µ V/m)
2422.00	91.89 (PK)	Н	Fundamental Frequency
2422.00	91.96 (PK)	V	Fundamental Frequency
4844.00	48.51 (PK)	Н	74(Peak)/ 54(AV)
4844.00	49.77 (PK)	V	74(Peak)/ 54(AV)
7266.00		H/V	74(Peak)/ 54(AV)
9688.00		H/V	74(Peak)/ 54(AV)
12110		H/V	74(Peak)/ 54(AV)
14532		H/V	74(Peak)/ 54(AV)
16954		H/V	74(Peak)/ 54(AV)
19376		H/V	74(Peak)/ 54(AV)
21798		H/V	74(Peak)/ 54(AV)
24220		H/V	74(Peak)/ 54(AV)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

# Operation Mode: Transmitting under CH04 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2437.00	91.70 (PK)	Н	Fundamental Frequency
2437.00	91.65 (PK)	V	
4874.00	52.16 (PK)	Н	74(Peak)/ 54(AV)
4874.00	49.03 (PK)	V	74(Peak)/ 54(AV)
7311.00	-1	H/V	74(Peak)/ 54(AV)
9748.00	1	H/V	74(Peak)/ 54(AV)
12185		H/V	74(Peak)/ 54(AV)
14622	-1	H/V	74(Peak)/ 54(AV)
17059	-1	H/V	74(Peak)/ 54(AV)
19496	1	H/V	74(Peak)/ 54(AV)
21933		H/V	74(Peak)/ 54(AV)
24370		H/V	74(Peak)/ 54(AV)

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

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

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# Operation Mode: Transmitting under CH7 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
2452.00	91.10 (PK)	Н	Fundamental Frequency
2452.00	91.06 (PK)	V	
4904		Н	74(Peak)/ 54(AV)
4904	-	V	74(Peak)/ 54(AV)
7356		H/V	74(Peak)/ 54(AV)
9808	-	H/V	74(Peak)/ 54(AV)
12260	-	H/V	74(Peak)/ 54(AV)
14712	-	H/V	74(Peak)/ 54(AV)
17164		H/V	74(Peak)/ 54(AV)
19616		H/V	74(Peak)/ 54(AV)
22068		H/V	74(Peak)/ 54(AV)
24520		H/V	74(Peak)/ 54(AV)

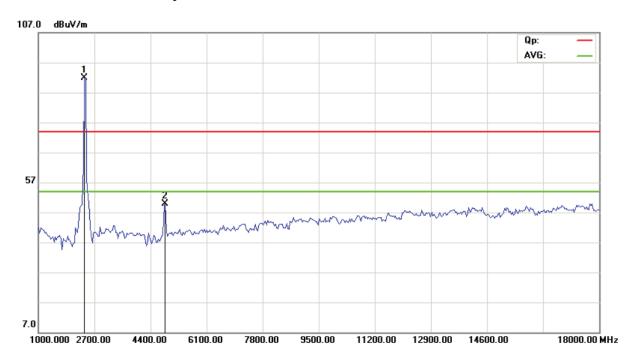
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11n (HT40) mode 65Mbps

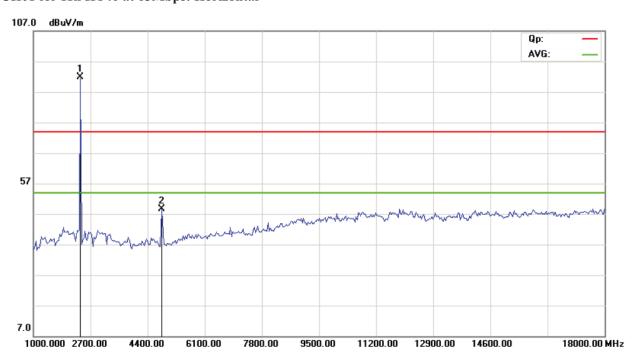


Please refer to the following test plots for details:

# CH01 for 11n HT40 at 65Mbps: Vertical



#### CH01 for 11n HT40 at 65Mbps: Horizontal



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

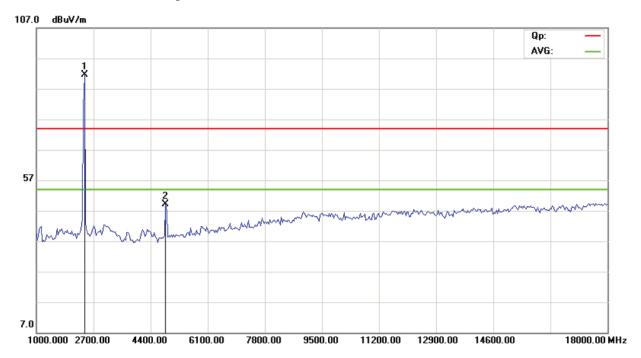
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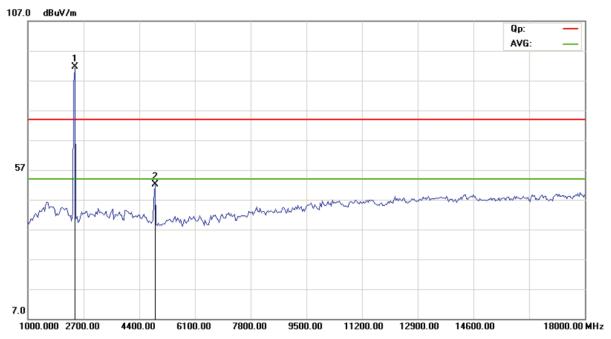
Report No: 1308032 Date: 2013-08-21



## CH04 for 11n HT40 at 65Mbps: Vertical



## CH04 for 11n HT40 at 65Mbps: Horizontal

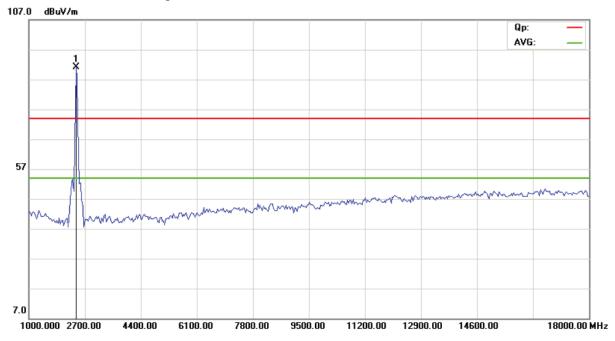


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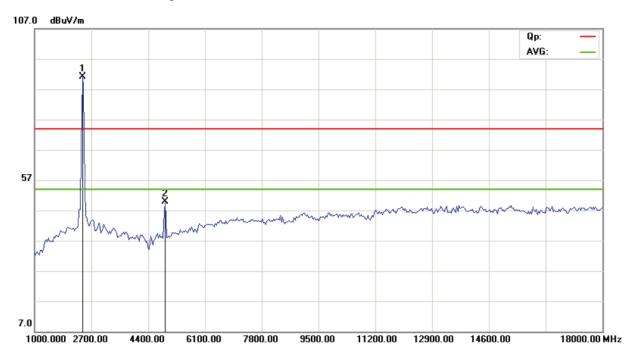
Report No: 1308032 Date: 2013-08-21



### CH07 for 11n HT40 at 65Mbps: Vertical



# CH07 for 11n HT40 at 65Mbps: Horizontal



Note: For radiated Emissions from 18-25GHz, it is only the floor noise.

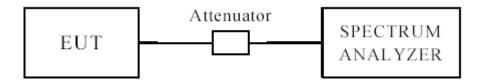
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### 7.0 6dB Bandwidth Measurement

### 7.1 Test Setup



#### 7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

#### 7.3 Test Procedure

- 1. Set resolution bandwidth (RBW) = 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.

#### 7.4 Test Result

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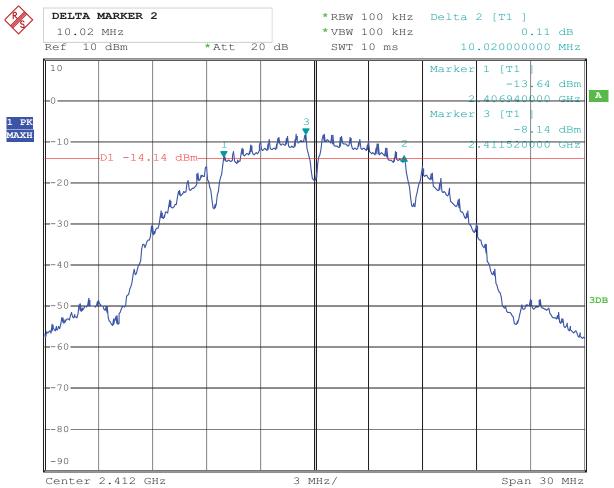
# 6dB Occupied Bandwidth

EUT		GA	GAME PAD				S7300B	
Mode		8	302.11b		Input Vol	tage	DO	C5V
Temperati	erature 24 deg. C, Humidity		56%	% RH				
Channel		el Frequency (MHz)			Minimum Limit (MHz)		Pass/ Fail	
1		2412	1	10.02		0.5		Pass
6		2437	1	10	.08		0.5	Pass
11		2462	1	10	.04		0.5	Pass
1		2412	11	8.	8.58		0.5	Pass
6		2437	11	8.64		64 0.5		Pass
11		2462	11	8.	60		0.5	Pass

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# 1. 802.11b at 1Mbps of CH01



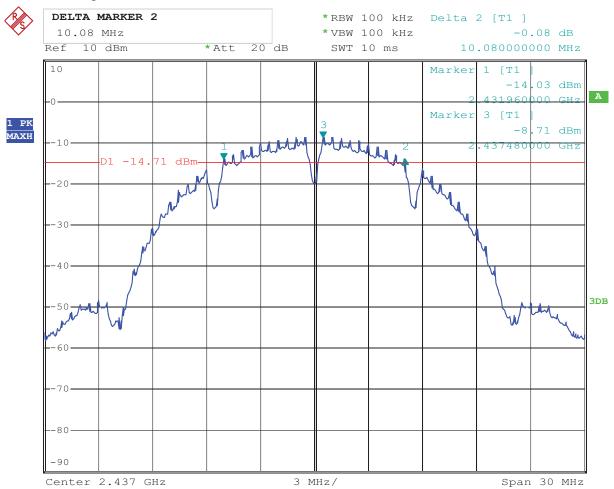
14.AUG.2013 15:54:44 Date:

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## 2. 802.11b at 1Mbps of CH06



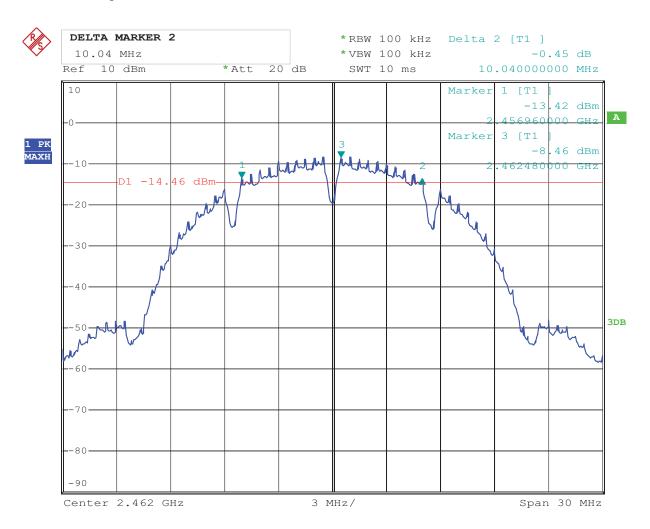
Date: 14.AUG.2013 16:19:38

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## 3. 802.11b at 1Mbps of CH11



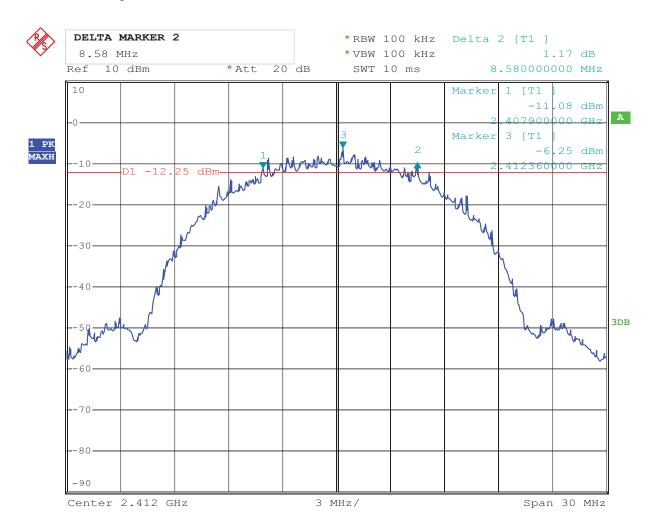
Date: 14.AUG.2013 16:35:34

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### 4. 802.11b at 11Mbps of CH01



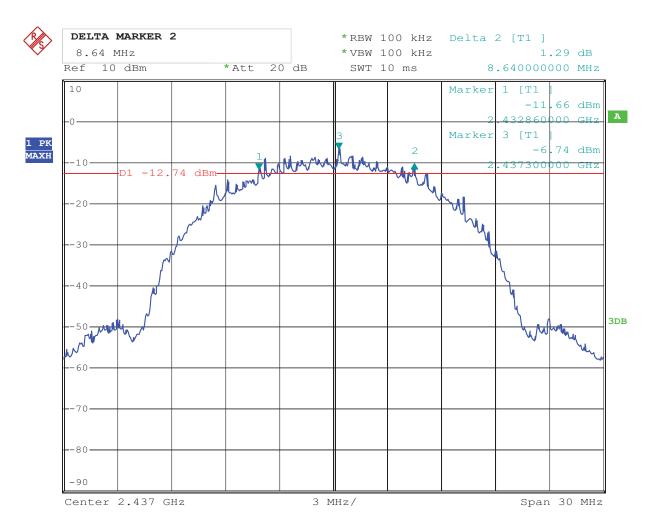
Date: 14.AUG.2013 16:01:24

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# 5. 802.11b at 11Mbps of CH06



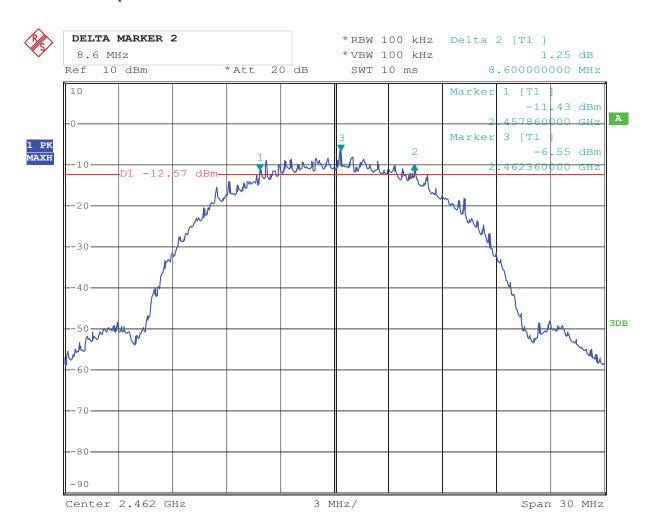
Date: 14.AUG.2013 16:22:42

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### 6. 802.11b at 11Mbps of CH11



Date: 14.AUG.2013 16:38:02

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# 6dB Occupied Bandwidth

EUT		GA	ME PAD		Model		S	S7300B
Mode		8	302.11g		Input Vol	tage		DC5V
Temperat	ure	24	4 deg. C,		Humidity	,	5	6% RH
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)		andwidth Hz)	Minimum Limit (MHz)		Pass/ Fail
1		2412	6	16	.44		0.5	Pass
6		2437	6	16	0.32		0.5	Pass
11		2462	6	16	.34		0.5	Pass

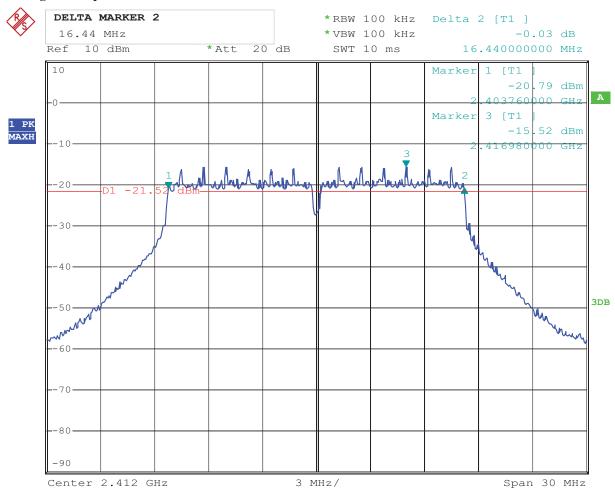
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#### **Test Plots:**

### 1. 802.11g at 6Mbps of CH01



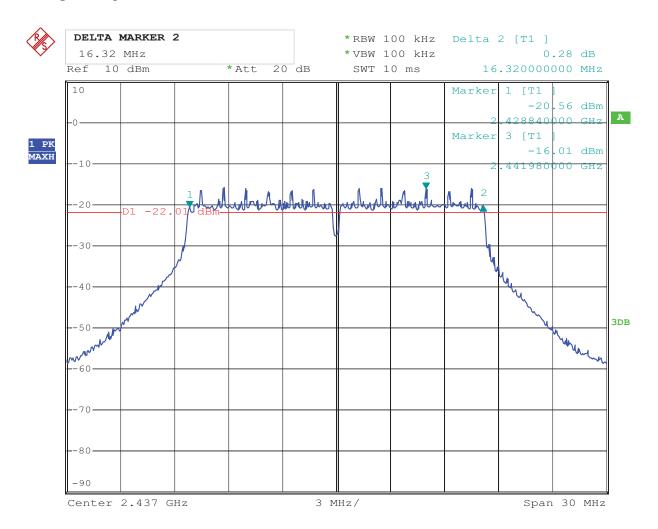
Date: 14.AUG.2013 15:59:08

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#### 2. 802.11g at 6Mbps of CH06



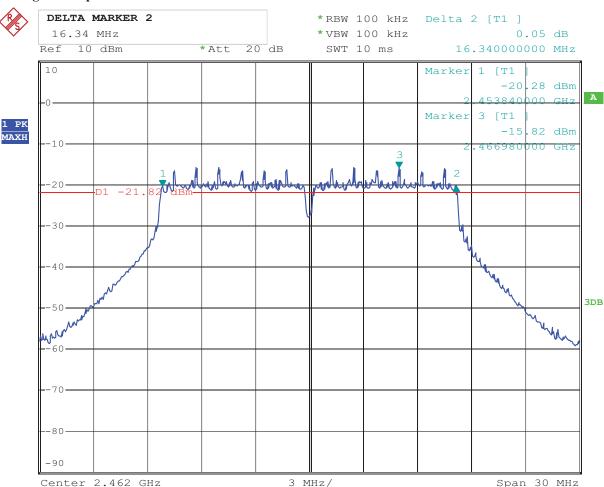
Date: 14.AUG.2013 16:21:24

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## 3. 802.11g at 6Mbps of CH11



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### 6dB Occupied Bandwidth

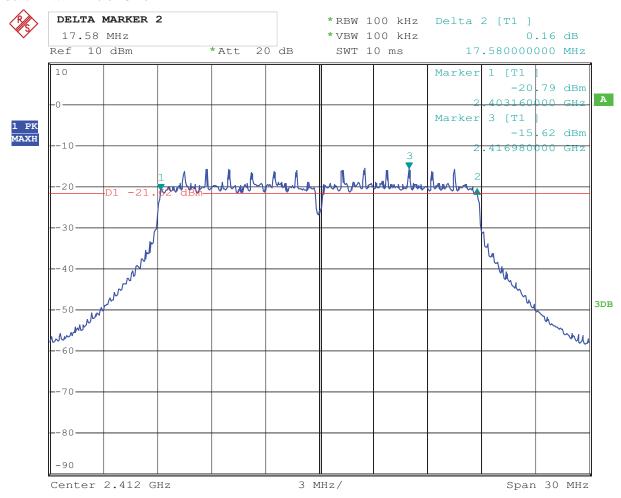
EUT		GA	ME PAD		Model		S73	300B	
Mode		802.111	n HT20/HT	40	Input Vol	tage	DO	C5V	
Temperat	ure	24	4 deg. C,		Humidity	,	56%	% RH	
Channel		el Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)		Pass/ Fail	
1		2412	65	17.58		0.5		Pass	
6		2437	65	17.52			0.5	Pass	
11		2462	65	17.60		0.5		Pass	
1		2422	65	35	.10		0.5	Pass	
4		2437	65	34	34.92		0.5	Pass	
7		2452		35	.10		0.5	Pass	

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#### **Test Plots:**

#### 1. 802.11n at HT20 of CH01

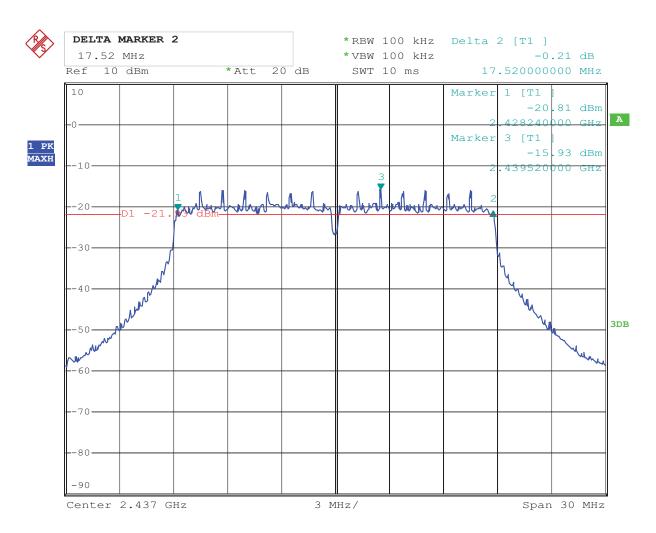


14.AUG.2013 16:04:40 Date:

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#### 2. 802.11n at HT20 of CH06



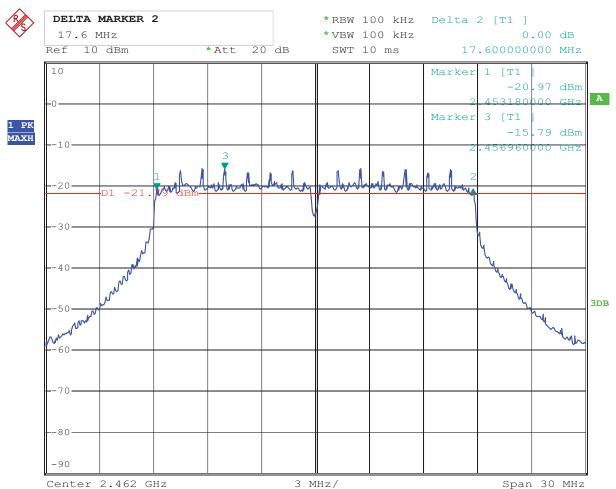
14.AUG.2013 16:24:17 Date:

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#### 3. 802.11n at HT20 of CH11



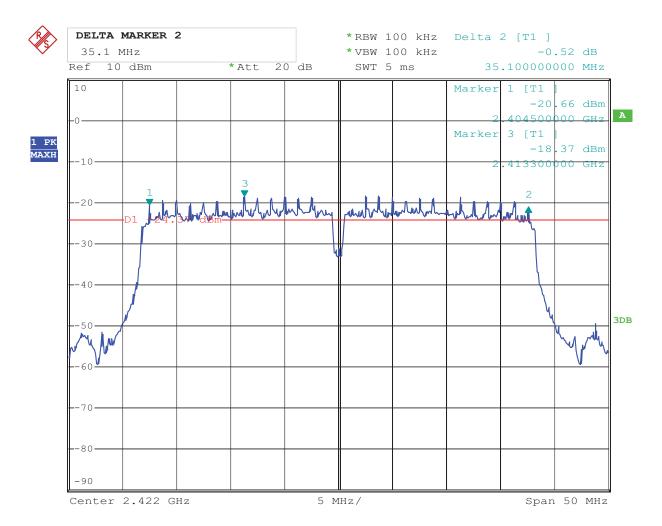
Date: 14.AUG.2013 16:39:35

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#### 4. 802.11n at HT40 of CH01



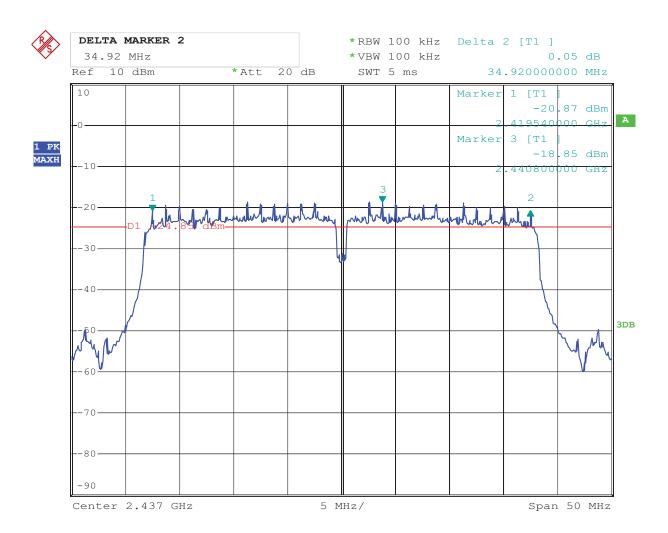
Date: 14.AUG.2013 16:41:39

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#### 5. 802.11n at HT40 of CH04



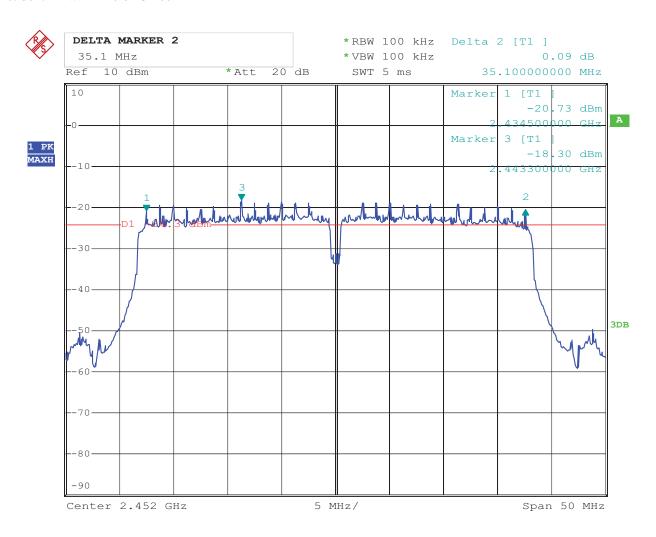
Date: 14.AUG.2013 16:26:36

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#### 6. 802.11n at HT40 of CH07



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# 8. Maximum Peak Output Power

## 8.1 Test Setup



### 8.2 Limits of Maximum Peak Output Power

The Maximum Peak Output Power Measurement is 30dBm.

#### **8.3 Test Procedure**

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

Note: the peak power was measured

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#### **8.4Test Results**

EUT	EUT GAME		PAD	M	odel		S7300B
Mode	Mode 802.		Ilb Input		Input Voltage		DC5V
Temperat	ure	24 deg	24 deg. C, Humidity		:	56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak P Lin (dB	nit	Pass/ Fail
1		2412	7.22		30		Pass
6		2437	7.21		30		Pass
11		2462	7.04		30	)	Pass

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

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT		GAME	PAD	M	odel		S7300B
Mode		802.1	.1g	Input	Input Voltage		DC5V
Temperat	ure	24 deg	g. C,	Hur	nidity		56% RH
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak P Lin (dB	nit	Pass/ Fail
1	2412		4.42		30		Pass
6	2437		4.19		30	)	Pass
11		2462	4.21		30	)	Pass

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

- The result basic equation calculation as follow:
   Peak Power Output = Peak Power Reading + Cable loss + Attenuator
- 3. The worse case was recorded

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EUT	EUT GAME		PAD	M	odel		S7300B
Mode 802.11n		(HT20) Input		Voltage	DC5V		
Temperati	erature 24 deg. C, Humidity		:	56% RH			
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak P Lin (dB	nit	Pass/ Fail
1		2412	4.57		30		Pass
6		2437	4.41		30		Pass
11		2462	4.31		30	)	Pass

Note: 1. At finial test to get the worst-case emission at 11n HT20 for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

EUT	EUT GAME		PAD	M	odel		S7300B
Mode	Mode 802.11n		(HT40) Input		Input Voltage		DC 5V
Temperat	ure	24 deg	g. C,	Humidity		56% RH	
Channel	Channel Frequency (MHz)		Peak Power Output (dBm)		Peak F Lin (dB	nit	Pass/ Fail
1		2422	4.19		30		Pass
4	2437		4.32		30	)	Pass
7		2452	4.22		30	)	Pass

Note: 1. At finial test to get the worst-case emission at 11n HT40 for CH01, CH04 and CH07

2. The result basic equation calculation as follow:

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

3. The worse case was recorded

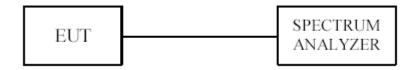
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# 9. Power Spectral Density Measurement

### 9.1 Test Setup



### 9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm.

#### 9.3 Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW = 10 kHz.
- 3. Set the VBW  $\geq$  30 kHz.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 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.
- 11. The resulting peak PSD level must be  $\leq 8$  dBm.

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#### 9.4Test Result

EUT		GAME	PAD	M	odel		S7300B	
Mode		802.11b 11Mbps		Input Voltage		DC5V		
Temperat	ure	24 deg. C,		Humidity		,	56% RH	
Channel	Channel Frequency (MHz)		Final Power S Density (dBm)	•	Maximui (dB		Pass/ Fail	
			11Mbps					
1		2412	-16.41		8		Pass	
6		2437	-16.06		8		Pass	
11		2462	-16.22		8		Pass	

EUT		GAME	PAD	M	odel		S7300B
Mode		802.11b 1Mbps		Input Voltage		DC5V	
Temperature		24 deg. C,		Humidity			56% RH
Channel	Channel Frequency (MHz)		Final Power Sp Density (dBm)		Maximum (dB		Pass/ Fail
			1Mbps				
1		2412	-18.28		8		Pass
6	2437		-17.20		8		Pass
11		2462	-18.33		8		Pass

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EUT		GAME	PAD	M	odel		S7300B
Mode		802.11g 6Mbps		Input Voltage			DC5V
Temperat	ure	24 deg. C,		Humidity			56% RH
Channel	Channel Frequency (MHz)		Final Power S <sub>I</sub> Density (dBm)		Maximur (dB		Pass/ Fail
			6Mbps				
1		2412	-25.59		8		Pass
6		2437	-24.11		8		Pass
11		2462	-25.30		8		Pass

EUT		GAME	PAD	M	odel		S7300B
Mode	fode 802.11n HT2		20 65Mbps	Input Voltage		DC5V	
Temperati	perature 24 deg. C, Humidity		nidity	56% RH			
Channel	Cha	annel Frequency (MHz)	Final Power Spectral Density (dBm)		Maximum Limit (dBm)		Pass/ Fail
			HT20				
1		2412	-24.17		8		Pass
6		2437	-24.35		8		Pass
11		2462	-24.72		8		Pass

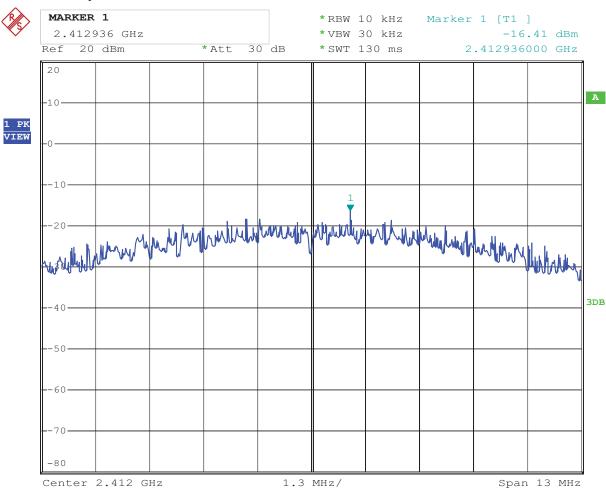
EUT		GAME	PAD	M	odel		S7300B
Mode		802.11n HT40 65Mbps		Input Voltage		DC5V	
Temperat	ure	24 deg	g. C,	Hur	nidity		56% RH
Channel	Channel Frequency (MHz)		Final Power Spectral Density (dBm)		Maximur (dB		Pass/ Fail
			HT40				
1		2422	-27.60		8		Pass
4		2437	-27.78		8		Pass
7		2452	-27.97		8		Pass

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## 9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

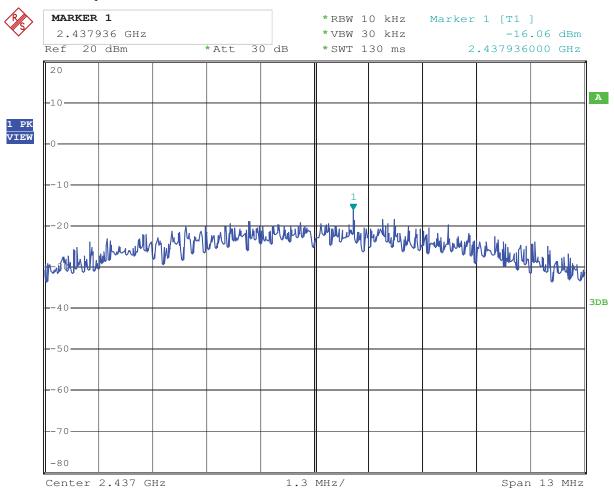


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### 2. 802.11b at 11Mbps at CH06



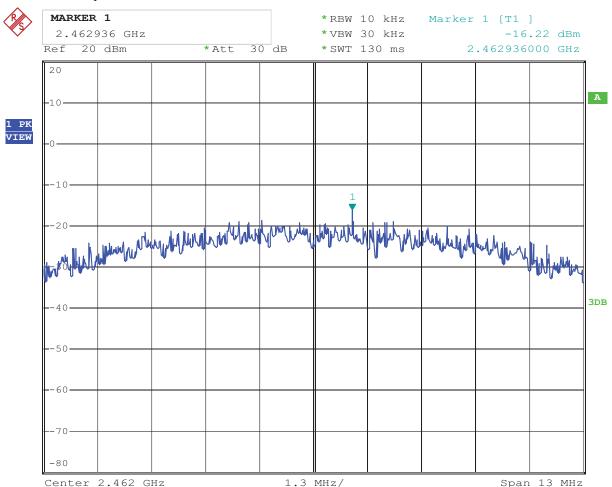
Date: 14.AUG.2013 18:16:14

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### 3. 802.11b at 11Mbps of CH11



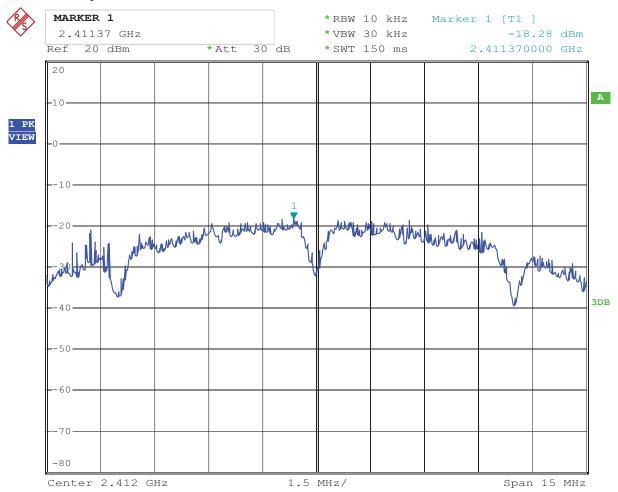
Date: 14.AUG.2013 18:19:43

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### 4. 802.11b at 1Mbps of CH1



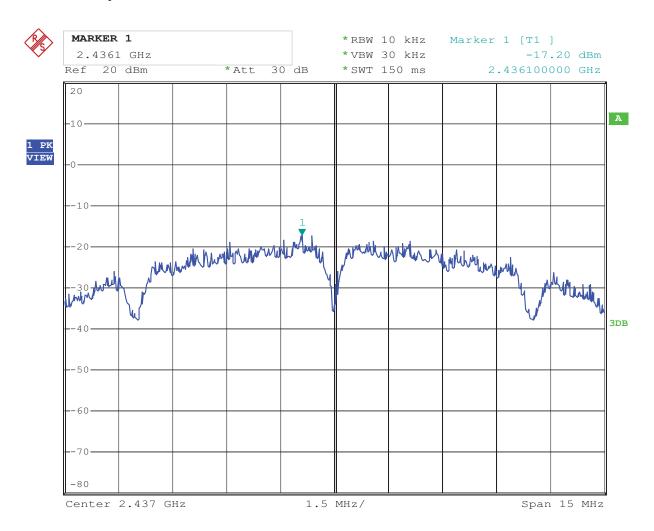
Date: 14.AUG.2013 18:05:50

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### 5. 802.11b at 1Mbps of CH6



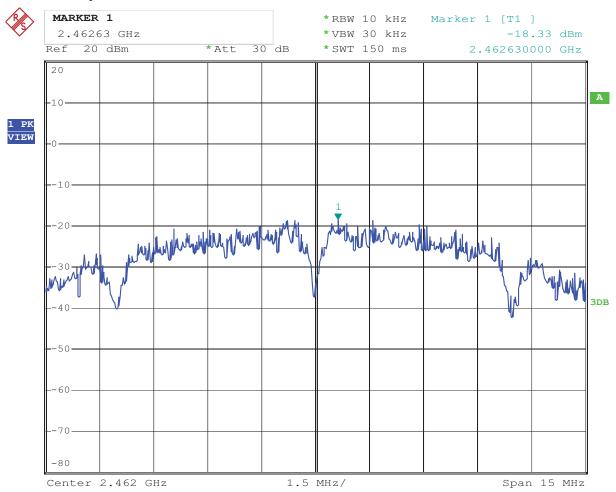
Date: 14.AUG.2013 18:13:34

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### 6. 802.11b at 1Mbps of CH11



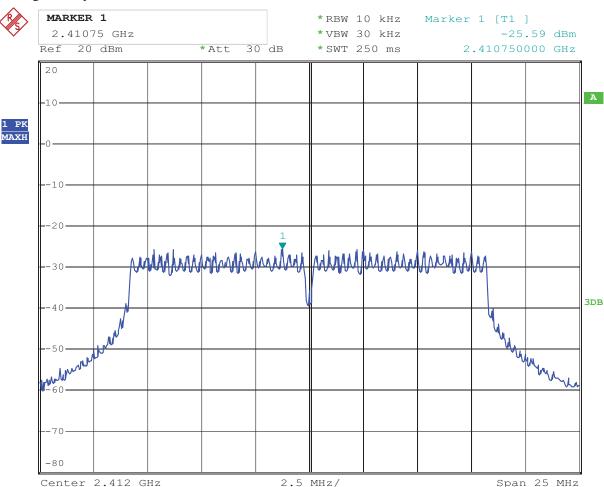
Date: 14.AUG.2013 18:17:51

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### 7. 802.11g at 6Mbps of CH1



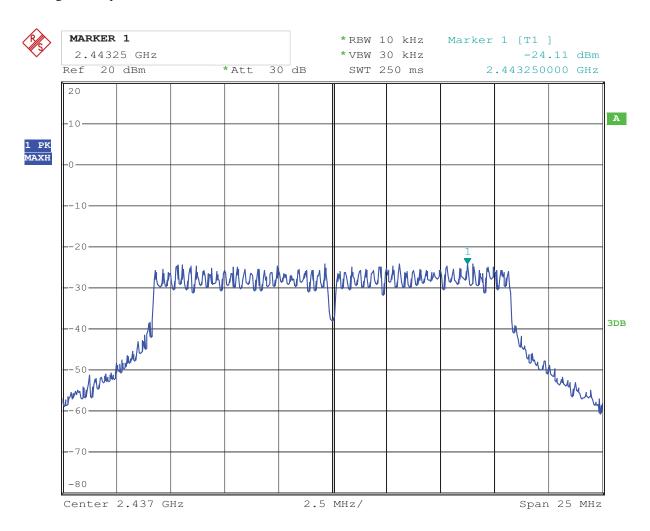
Date: 14.AUG.2013 18:07:47

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### 8. 802.11g at 6 Mbps of CH6



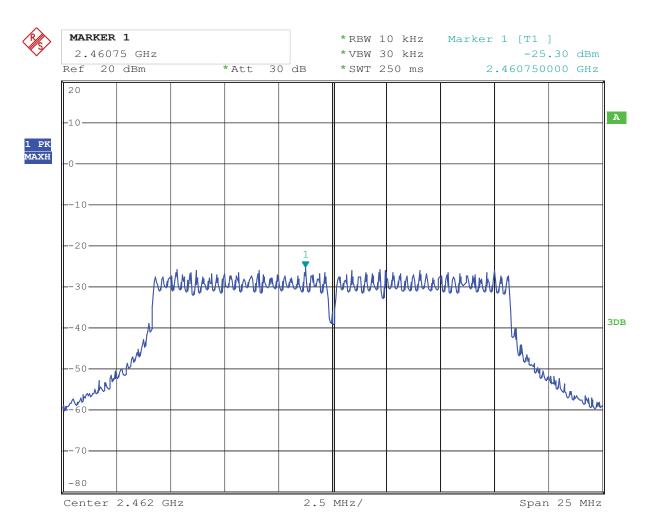
Date: 22.APR.2013 10:55:46

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### 9. 802.11g at 6 Mbps of CH11



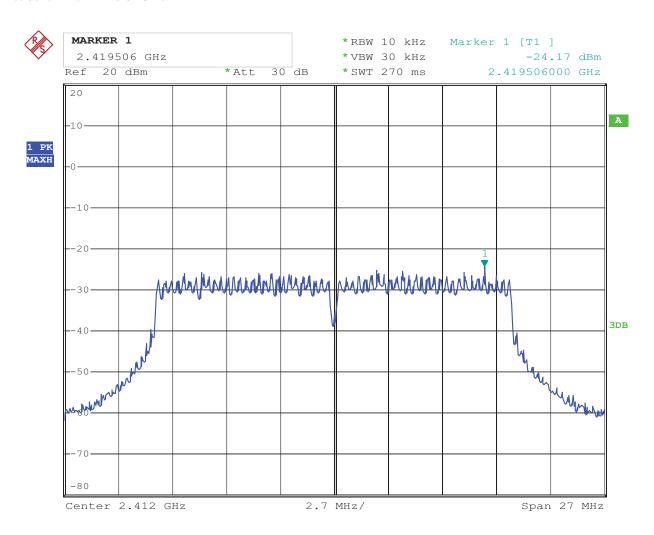
Date: 14.AUG.2013 18:18:55

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#### 10. 802.11n at HT20 of CH01



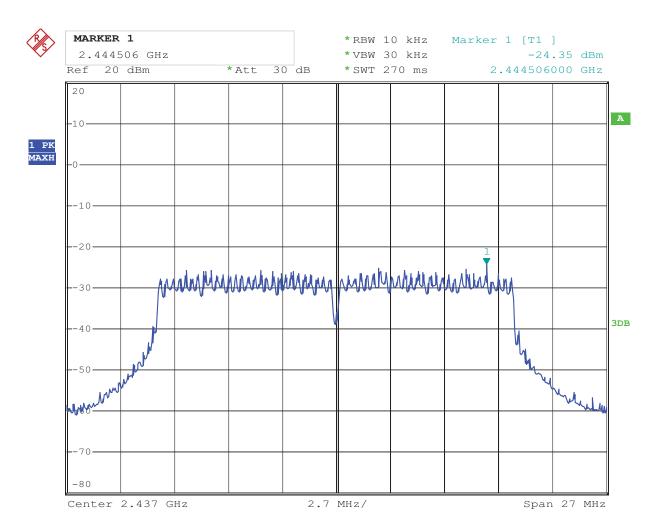
Date: 14.AUG.2013 18:21:48

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#### 11. 802.11n at HT20 of CH06



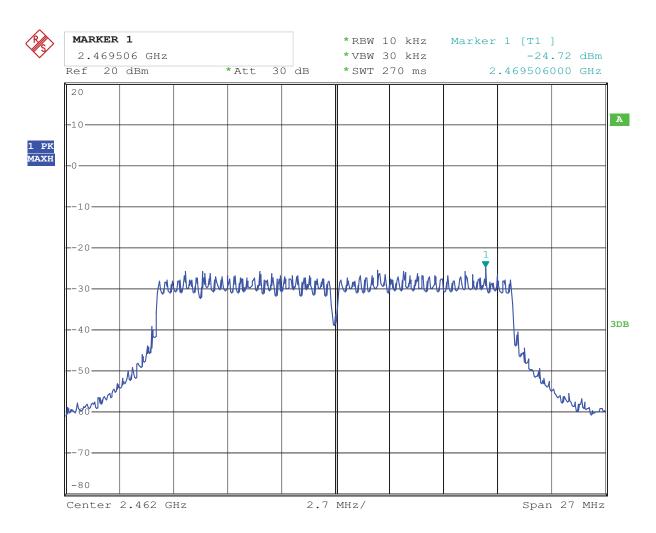
Date: 14.AUG.2013 18:29:43

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#### 12. 802.11n at HT20 of CH11



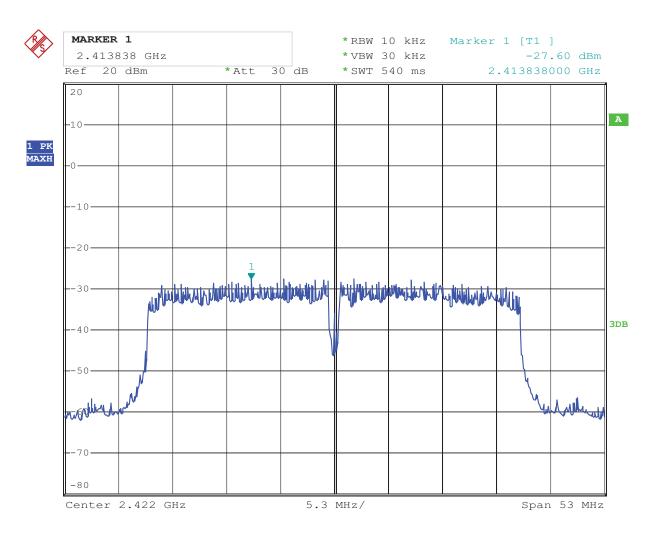
Date: 14.AUG.2013 18:33:55

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#### 13. 802.11n at HT40 of CH01



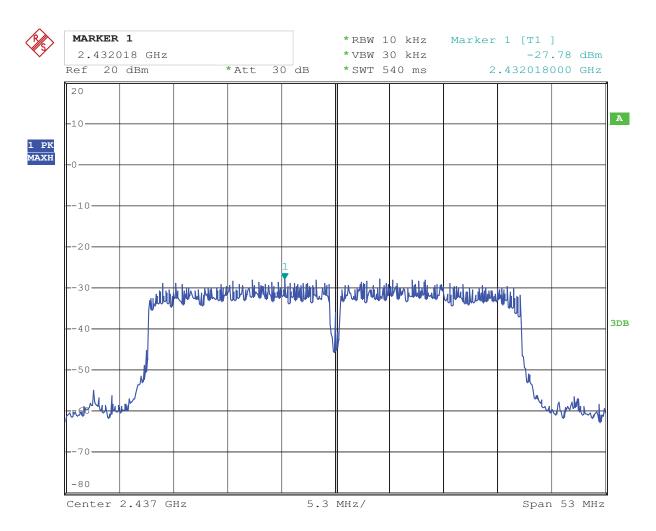
Date: 14.AUG.2013 18:25:55

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#### 14. 802.11n at HT40 of CH04



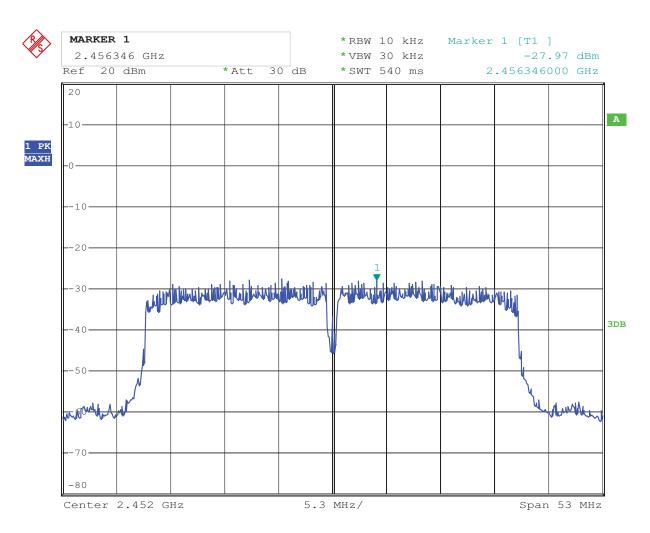
Date: 14.AUG.2013 18:31:28

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#### 15. 802.11n at HT40 of CH07



Date: 14.AUG.2013 18:32:23

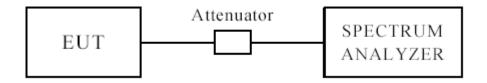
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# **10 Out of Band Measurement**

# 10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

## 10.2 Limits of Out of Band Emissions Measurement

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

#### **10.3 Test Procedure**

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test.( Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=VBW=100 kHz. A conducted measurement used

## 10.4 Test Result

Please see next pages

Note: 1. this is a handhold device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), after pre-test. It was found that the worse radiated emission was get at the lying position. the worse case was recorded

2. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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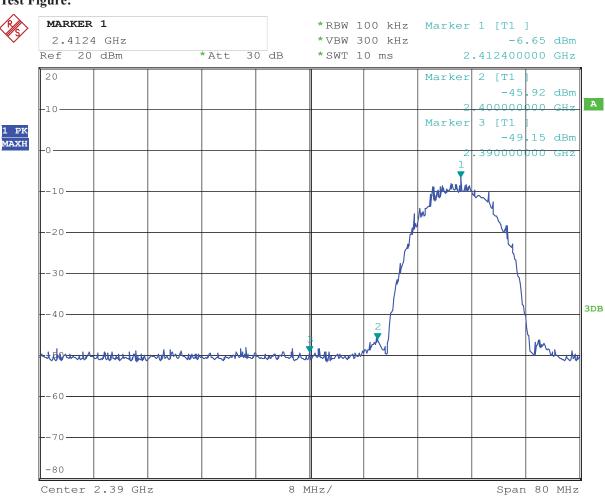
## For 802.11b mode

## CH01 at 11Mbps

## 10.4 Band-edge and Restricted band Measurement

Total Daniel 1486 and 1408 and 1416 and							
EUT	GAME PAD		Model	S7300B			
Mode	Keeping Transmitting		Input Voltage	DC5V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2400	PK (dBμV/m)	46.2	T ::4	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$			
2390	PK (dBμV/m)	36.6	Limit	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBμV/m)			

## **Test Figure:**



Date: 14.AUG.2013 17:55:44

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

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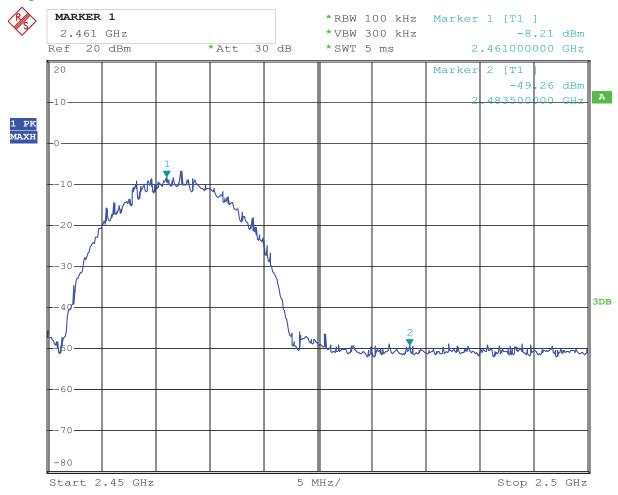


## CH11 at 11Mbps

#### 10.4 Band-edge and Restricted band Measurement

EUT	GAME PAD		Model	S7300B
Mode	Keepin	g Transmitting	Input Voltage	DC5V
Temperature	24	4 deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	40.6	T : '	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 14.AUG.2013 18:00:16

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

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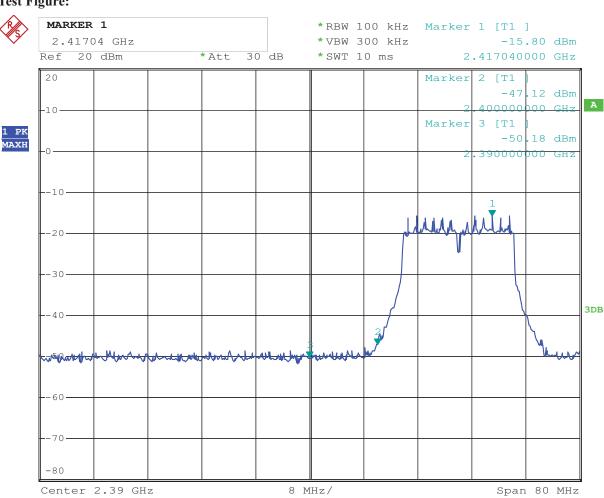
## For 802.11g mode

CH01 at 6Mbps

#### 10.4 Band-edge and Restricted band Measurement

2011 Band Vago and Neonitova Cana Managaranion						
EUT	GAME PA	D Model		Iodel	S7300B	
Mode	Keeping Trans	mitting Input		Voltage	DC5V	
Temperature	24 deg. (	C, Hu		midity	56% RH	
Test Result:	Pass	De		etector	PK	
2400	PK (dBμV/m)	44.1		T ::4	74(dBμV/m)	
	AV (dBμV/m)		Limit		54(dBµV/m)	
2390	PK (dBμV/m)	37.3		Limit	74(dBμV/m)	
	AV (dBμV/m)			Lillill	54(dBμV/m)	

## **Test Figure:**



Date: 14.AUG.2013 17:54:55

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

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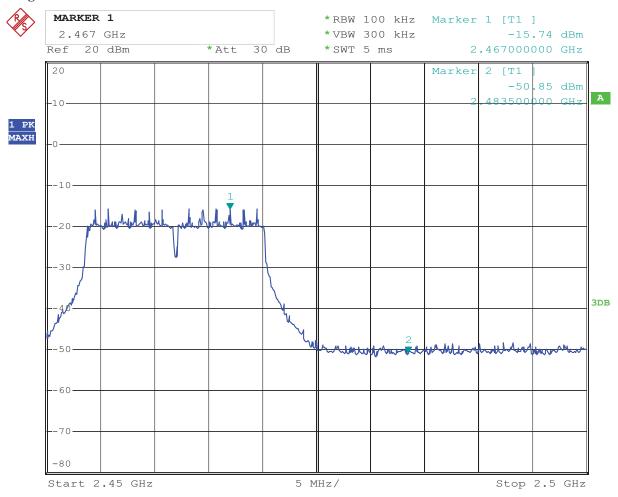


## CH11 at 6Mbps

#### **10.4** Band-edge and Restricted band Measurement

EUT	GA	ME PAD	Model	S7300B
Mode	Keeping	g Transmitting	Input Voltage	DC5V
Temperature	24	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	37.2	T,	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

# **Test Figure:**



Date: 14.AUG.2013 17:59:21

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

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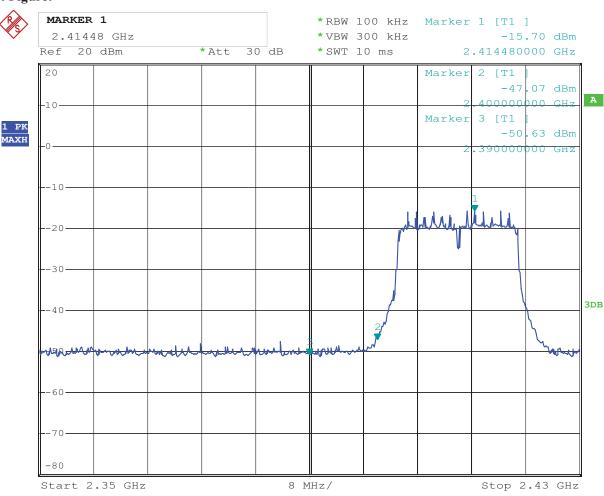
## For 802.11n (HT20) mode

## CH01 at 65Mbps

## 10.4 Band-edge and Restricted band Measurement

EUT	GAME PAD		Model		S7300B	
Mode	Keeping Transmitting		Input Voltage		DC5V	
Temperature	24 deg. C,		Humidity		56% RH	
Test Result:	Pass		Detector		PK	
2400	PK (dBμV/m)	40.9	Limit		$74(dB\mu V/m)$	
	AV (dBμV/m)				$54(dB\mu V/m)$	
2390	PK (dBμV/m)	35.8	Limit		74(dBμV/m)	
	AV (dBμV/m)				54(dBµV/m)	

## **Test Figure:**



Date: 14.AUG.2013 17:51:20

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

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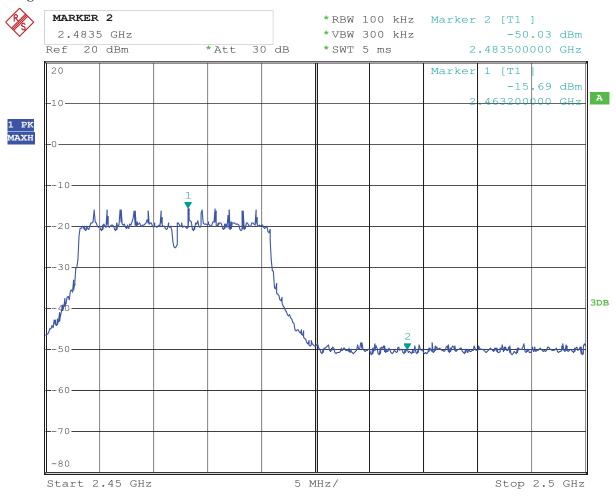


## CH11 at 65Mbps

#### **10.4** Band-edge and Restricted band Measurement

EUT	GA	ME PAD	Model	S7300B
Mode	Keeping	g Transmitting	Input Voltage	DC5V
Temperature	24	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	38.3	T,	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

# **Test Figure:**



Date: 14.AUG.2013 17:44:46

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

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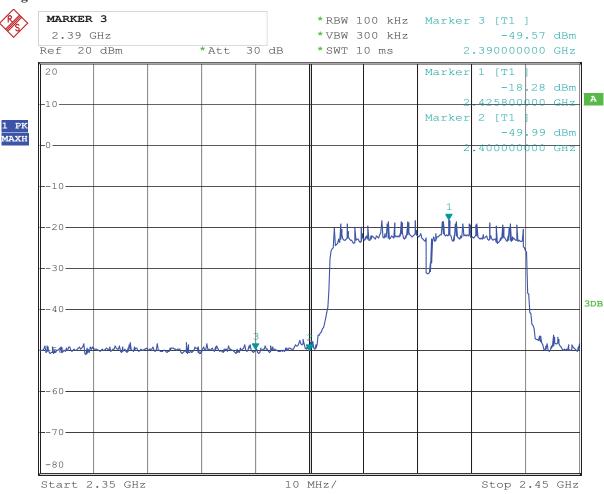
## For 802.11n (HT40) mode

CH01 at 65Mbps

## 10.4 Band-edge and Restricted band Measurement

EUT	GAME PAD		Model	S7300B
Mode	Keeping Transmitting		Input Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBµV/m)	43.9	Limit	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	36.7	Limit	74(dBμV/m)
	AV (dBμV/m)		Lillit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 14.AUG.2013 17:49:48

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

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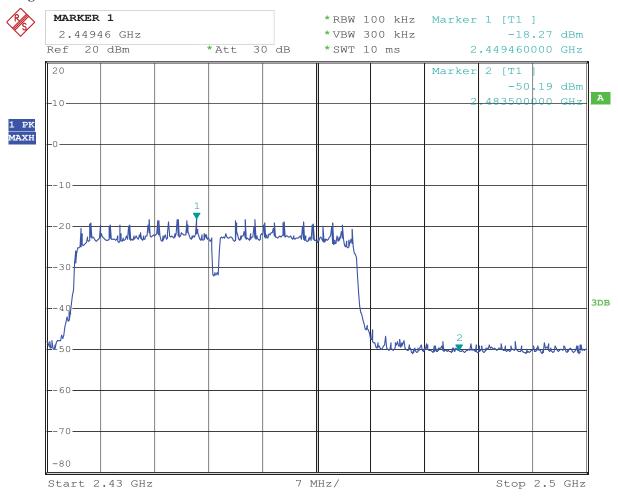


## CH11 at 65Mbps

#### **10.4** Band-edge and Restricted band Measurement

EUT	GA	ME PAD	Model	S7300B
Mode	Keeping	g Transmitting	Input Voltage	DC5V
Temperature	24	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBμV/m)	37.6	T,	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



Date: 14.AUG.2013 17:47:32

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

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# 11.0 Antenna Requirement

# 11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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

## 11.2 Antenna Connected construction

Integral antenna used. The maximum Gain of the antennas is 2.2 dBi.

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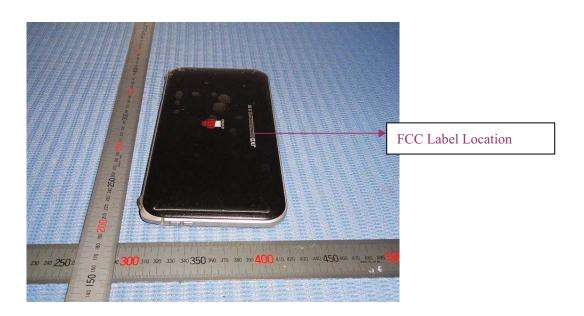
## 12.0 FCC Label

## FCC ID: 2AAVS-S7300B

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

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

#### Mark Location:



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# 13.0 Photo of testing

Conducted Emission Test Setup:



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# Radiated Emission Test Setup:





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Photo for the EUT





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# Power Supply





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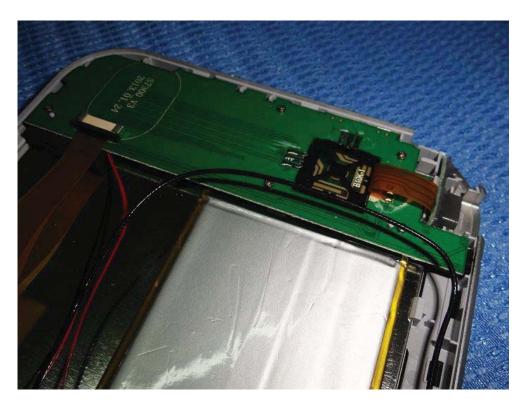
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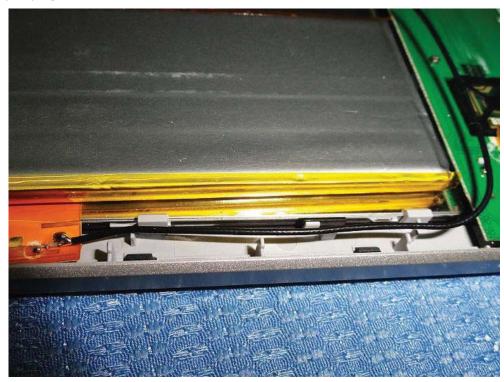
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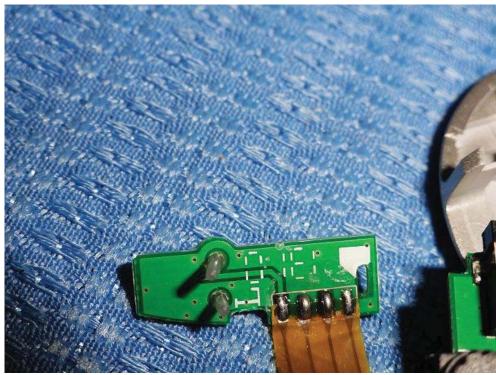
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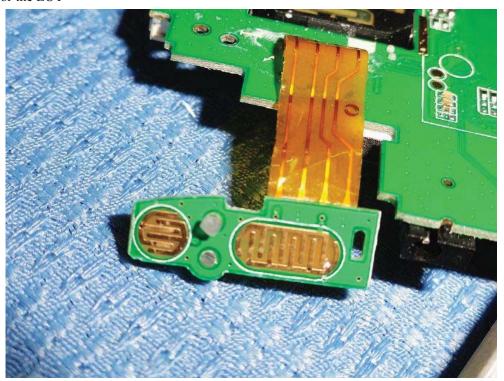
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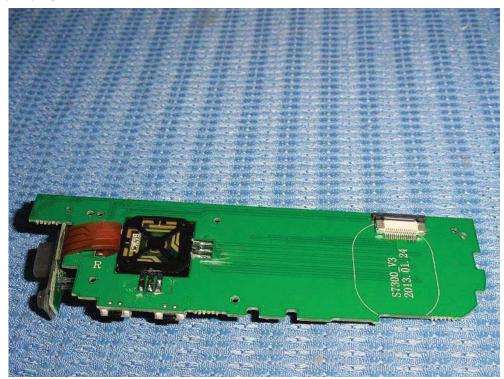
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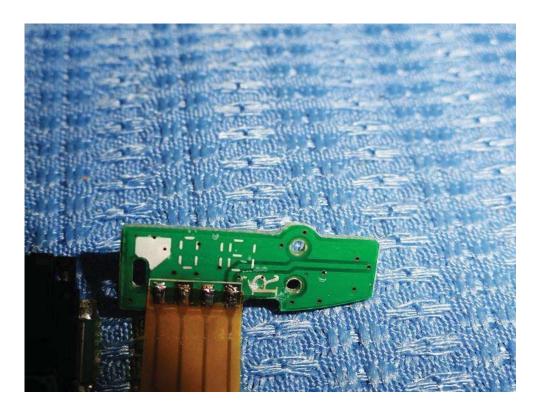
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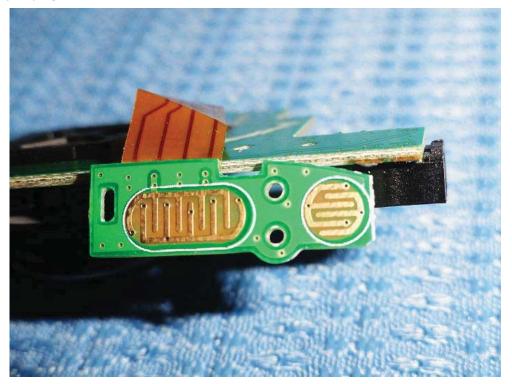
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End of the report