







### ISO/IEC17025Accredited Lab.

Report No: FCC 1212009
File reference No: 2012-09-21

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Product: Tablet PC

Model No: PMID705, PMID705X, UMID700C, UTAB71

Trademark: N/A

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 and FCC Part 15 Subpart C, Paragraph 15.247 regulations for the evaluation of

electromagnetic compatibility

Approved By

# Jack Chung

Jack Chung Manager

Dated: Sep 21, 2012

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

# SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

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# **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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# **Test Report Conclusion**

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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-02

For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Shenzhen Jingwah Information Technology Co., Ltd.

Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen, China

Telephone: 0755-83975295 Fax: 0755-83204874

### 1.3 Description of EUT

Product: Tablet PC

Manufacturer: Shenzhen Jingwah Information Technology Co., Ltd.

Address: 4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,

Shenzhen, China

Brand Name: N/A

Model Number: PMID705

Additional Model Number: PMID705X, UMID700C, UTAB71

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 (HT20/40) : 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

Frequency Selection By software

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



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

IEEE 802.11n HT40: 7 Channels

Antenna: Ceramic Antenna with maximum gain 2.1dBi
Rated input Voltage Input: DC5V, with Li-ion Battery 3.7V, 2500mA

(Recharge with AC/DC Adapter Input: AC 100-240V~, 50/60Hz, 0.35A;

Output: DC5V, 2000mA)

1.4 Submitted Sample: 2 Samples

1.5 Test Duration

2012-09-12 to 2012-09-20

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	0 Test Equipments							
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date			
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2012-04-21	2013-04-20			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2012-04-21	2013-04-20			
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2012-04-21	2013-04-20			
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2012-04-21	2013-04-20			
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2012-04-21	2013-04-20			
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2012-04-21	2013-04-20			
System Controller	CT	SC100	1					
Printer	EPSON	РНОТО ЕХЗ	CFNH234850					
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-			
Loop Antenna	EMCO	6502	00042960	2012-04-21	2013-04-20			
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2012-04-21	2013-04-20			
3m OATS			N/A	2012-04-21	2013-04-20			
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2012-04-21	2013-04-20			
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2012-04-21	2013-04-20			
Power meter	Anritsu	ML2487A	6K00003613	2012-04-21	2013-04-20			
Power sensor	Anritsu	MA2491A	32263	2012-04-21	2013-04-20			
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2012-04-21	2013-04-20			
LISN	AFJ	LS16C	10010947251	2012-04-21	2013-04-20			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-04-21	2013-04-20			
9*6*6 Anechoic			N/A	2012-04-21	2013-04-20			
EMI Test Receiver	RS	ESCS30	100139	2012-04-21	2013-04-20			
LISN	AFJ	LS16C	10010947251	2012-04-21	2013-04-20			
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2012-04-21	2013-04-20			

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### 2.1 **Auxiliary Equipment**

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Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
TF Card			Kingston		
Earphone					

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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: 54Mbps 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.



### 3.0 **Technical Details**

### 3.1 **Summary of test results**

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

### 3.2 **Test Standards**

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

### **EUT Modification** 4.0

No modification by Shenzhen Timeway Technology Consulting Co., Ltd

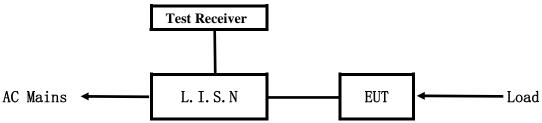
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### 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

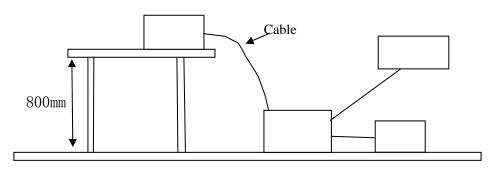


**EUT: Equipment Under Test** 

### 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	Model	FCC ID
Tablet PC	Shenzhen Jingwah Information	PMID705, PMID705X,	RBD-FCV1208038C
Tablet PC	Technology Co., Ltd.	UMID700C, UTAB71	KDD-FC v 1200030C

### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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

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### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

### 5.4 EUT Operating Condition

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

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

### 5.5 Power line conducted Emission Limit according to Paragraph 15.207.

Frequency	Class A Lim	its (dB \mu 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**

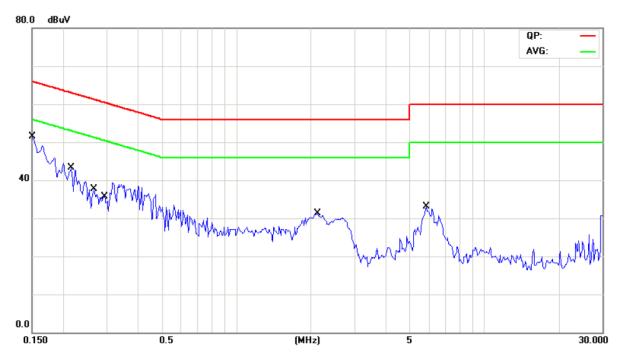
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging and Keep WIFI 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
0.150	Live	52.38	34.25	65.99	55.99
0.216	Live	41.53	25.27	62.95	52.95
0.267	Live	38.05	27.85	61.20	51.20
0.294	Live	37.79	23.43	60.39	50.39
5.835	Live	27.26	18.26	60.00	50.00
2.126	Live	25.24	20.91	56.00	46.00

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

### **EUT Operating Environment**

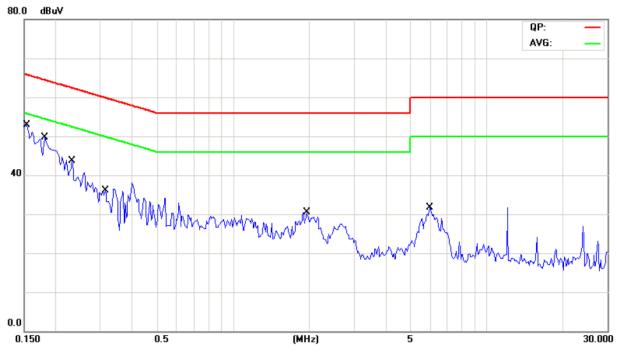
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Charging and Keep WIFI 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
0.153	Neutral	52.90	37.82	65.78	55.78
0.181	Neutral	48.76	32.68	64.43	54.43
0.314	Neutral	35.22	23.76	59.86	49.86
0.232	Neutral	42.98	30.02	62.3.7	52.37
1.958	Neutral	24.69	19.73	56.00	46.00
5.984	Neutral	21.72	14.11	60.00	50.00

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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 Furn-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

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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

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

Note:

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

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### Test result

### General Radiated Emission Data and Harmonics Radiated Emission Data

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

**EUT set Condition: Charging and Keep WIFI transmitting** 

**Results: Pass** 

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
127.000	35.34	Н	43.50
374.350	43.71	Н	46.00
449.525	43.86	Н	46.00
597.450	38.72	Н	46.00
745.375	42.75	Н	46.00
895.725	43.89	Н	46.00
42.125	37.64	V	40.00
90.625	40.36	V	43.50
124.575	41.32	V	43.50
449.525	43.62	V	46.00
597.450	43.07	V	46.00
745.375	43.28	V	46.00

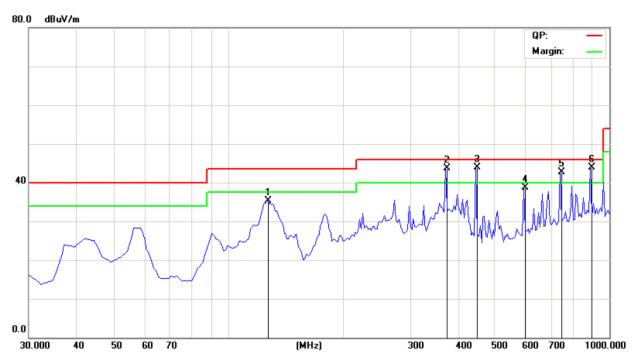
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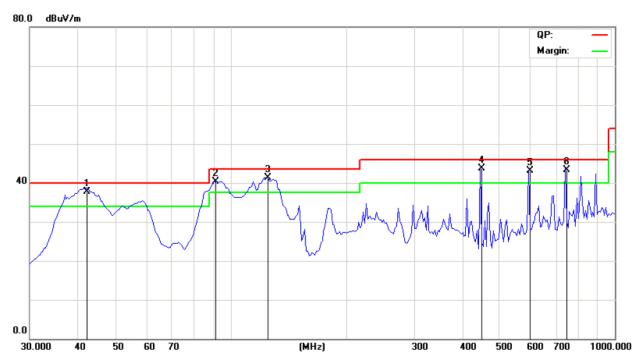
Test Figure:

Н



Test Figure:

V



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

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## Operation Mode: Transmitting & Receiving under CH01 for 11g at 54Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2412.00	96.12 (PK)	Н	Even dominantal Empayanay
2412.00	96.78 (PK)	V	Fundamental Frequency
4824.00	47.25 (PK)	Н	74(Peak)/ 54(AV)
4824.00	48.72 (PK)	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)
16884		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 802.11g mode 54Mbps

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### Operation Mode: Transmitting & Receiving under CH06 for 11g at 54Mbps

			_
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2437.00	93.01 (PK)	Н	Eundomontal Engagon av
2437.00	92.94 (PK)	V	Fundamental Frequency
4874.00	43.85 (PK)	Н	74(Peak)/ 54(AV)
4874.00	48.32 (PK)	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 54 Mbps

### Operation Mode: Transmitting & Receiving under CH11 for 11g at 54Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \) V/m)
2462.00	95.35 (PK)	Н	Fundamental Frequency
2462.00	94.36 (PK)	V	Fundamental Frequency
4924	47.58 (PK)	Н	74(Peak)/ 54(AV)
4924	(PK)	V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848	1	H/V	74(Peak)/ 54(AV)
12310	1	H/V	74(Peak)/ 54(AV)
14772	1	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

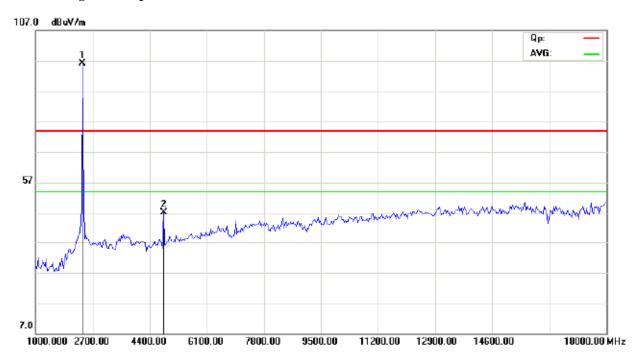
- 2. Remark "---" means that the emissions level is too low to be measured
- 3. For 802.11g mode at 54 Mbps

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

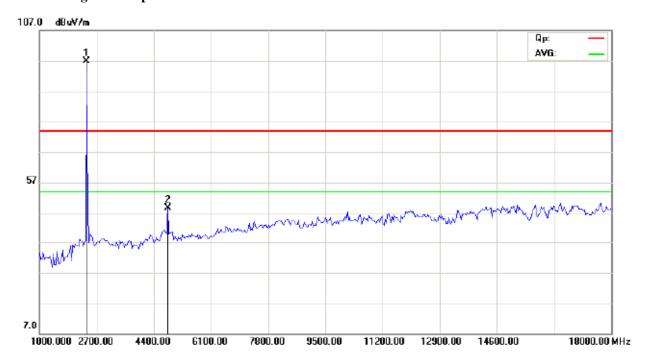


Please refer to the following test plots for details:

### CH01 for 11g at 54Mbps: Horizontal



### CH01 for 11g at 54Mbps: Vertical



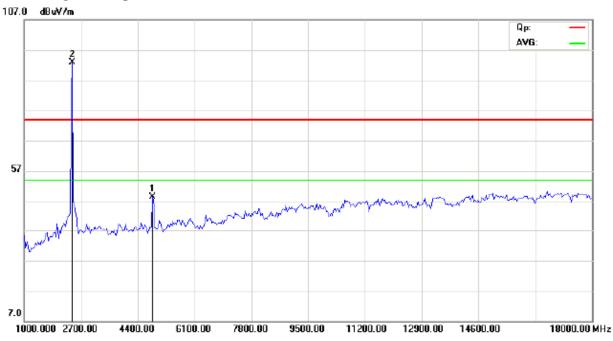
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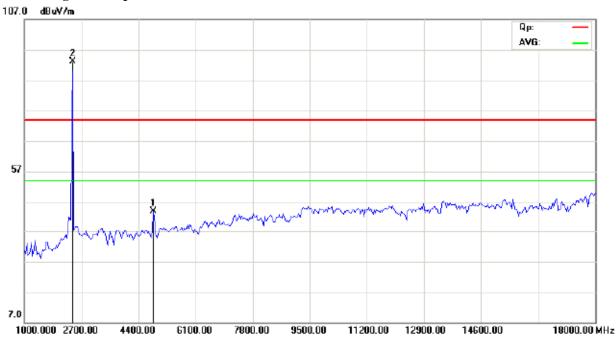
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### CH06 for 11g at 54Mbps: Vertical

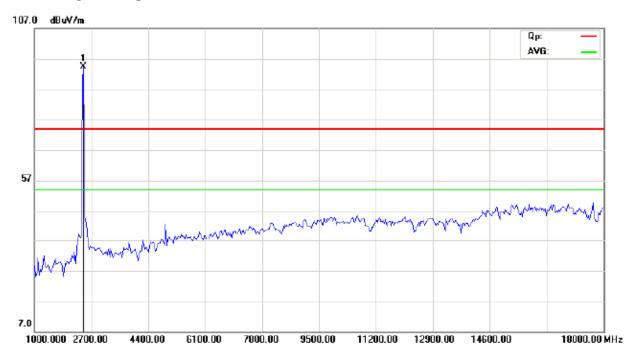


### CH06 for 11g at 54Mbps: Horizontal

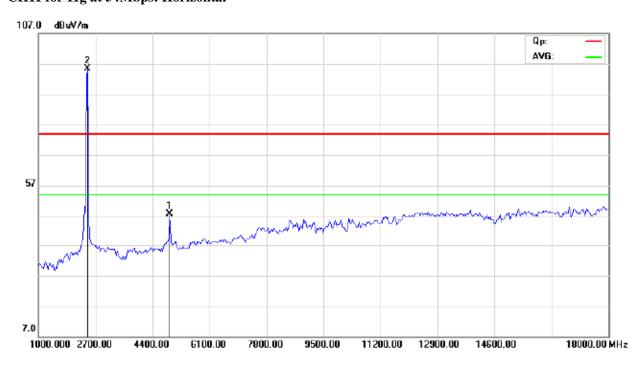




### CH11 for 11g at 54Mbps: Vertical



### CH11 for 11g at 54Mbps: Horizontal



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

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

(4D + 17/)		
$m (dB \mu V/m)$ A	Antenna Polarity	Limit@3m (dB \mu V/m)
2 (PK)	V	Eva domental Engavanos
5 (PK)	Н	Fundamental Frequency
2 (PK)	Н	74(Peak)/ 54(AV)
(PK)	V	74(Peak)/ 54(AV)
	H/V	74(Peak)/ 54(AV)
_	2 (PK) 5 (PK) (PK)	2 (PK) V 5 (PK) H 2 (PK) H (PK) V 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 802.11b mode 11Mbps

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2437.00	93.18 (PK)	Н	Fundamental Frequency
2437.00	94.17 (PK)	V	Tundamental Frequency
4874.00	(PK)	Н	74(Peak)/ 54(AV)
4874.00	48.00 (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	-	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 802.11b mode 11Mbps

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

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

_			_
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2462.00	95.25 (PK)	Н	Evendom antal Engavan av
2462.00	93.45 (PK)	V	Fundamental Frequency
4924	47.21 (PK)	Н	74(Peak)/ 54(AV)
4924	(PK)	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)

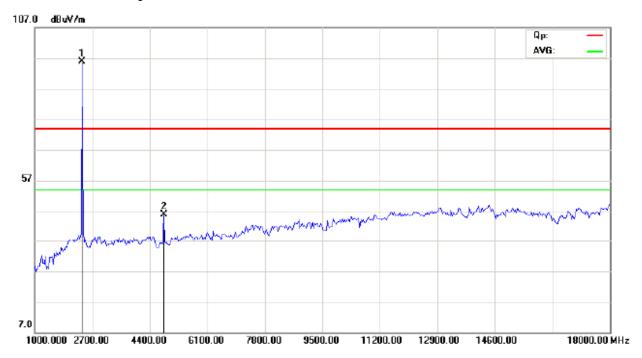
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

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

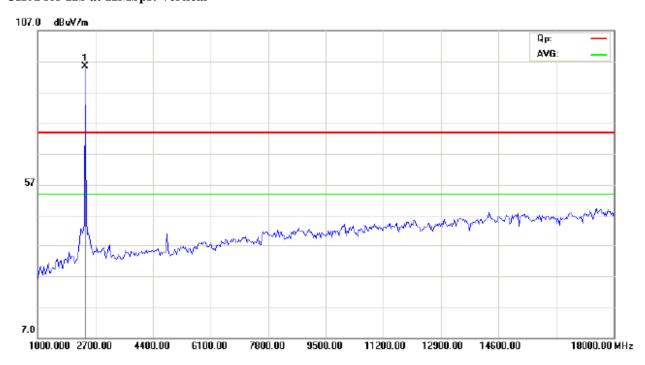


Please refer to the following test plots for details:

### CH01 for 11b at 11Mbps: Horizontal



## CH01 for 11b at 11Mbps: Vertical



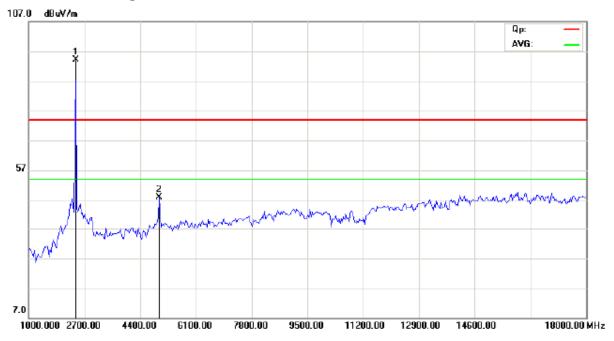
The report refers only to the sample tested and does not apply to the bulk.

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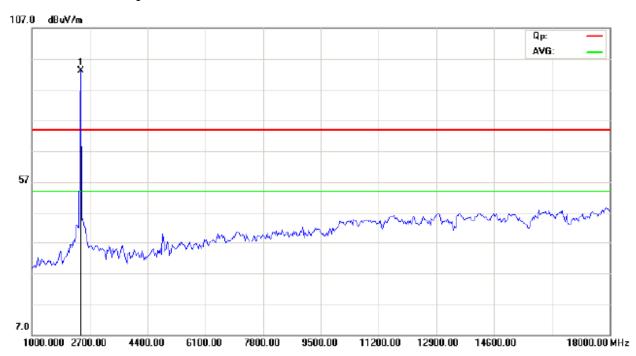
Report No: 1212009 Date: 2012-09-21



### CH06 for 11b at 11Mbps: Vertical

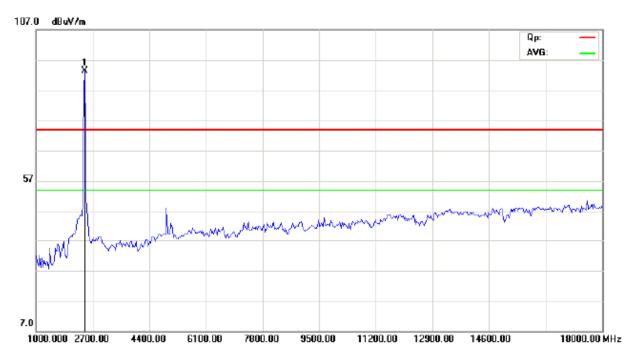


### CH06 for 11b at 11Mbps: Horizontal

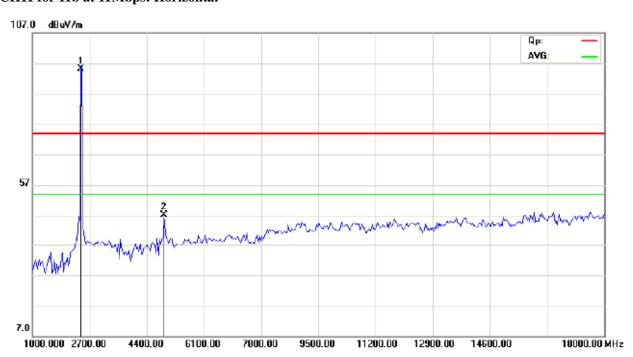




## CH11 for 11b at 11Mbps: Vertical



### 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: Transmitting & Receiving under CH01 for 11n HT20 at 65Mbps

	8 8		
Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2412.00	92.12 (PK)	Н	Eundamental Eraguanay
2412.00	93.02 (PK)	V	Fundamental Frequency
4824.00	(PK)	Н	74(Peak)/ 54(AV)
4824.00	48.05 (PK)	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: Transmitting & Receiving under CH06 for 11n HT20 at 65Mbps

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
2437.00	94.55 (PK)	Н	Fundamental Fraguency
2437.00	93.68 (PK)	V	Fundamental Frequency
4874.00	48.04 (PK)	Н	74(Peak)/ 54(AV)
4874.00	50.88 (PK)	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

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

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \( \mu \)V/m)
2462.00	94.21 (PK)	Н	Fundamental Eraguanay
2462.00	93.88 (PK)	V	Fundamental Frequency
4924	48.69 (PK)	Н	74(Peak)/ 54(AV)
4924	48.14 (PK)	V	74(Peak)/ 54(AV)
7368		H/V	74(Peak)/ 54(AV)
9848		H/V	74(Peak)/ 54(AV)
12310	1	H/V	74(Peak)/ 54(AV)
14772	1	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

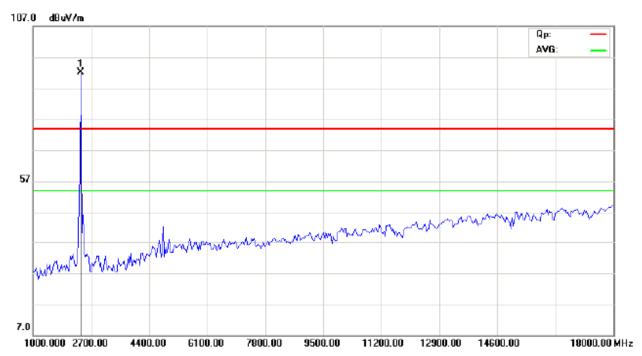
<sup>2.</sup> Remark "---" means that the emissions level is too low to be measured

<sup>3.</sup> For 802.11n (HT20) mode 65Mbps

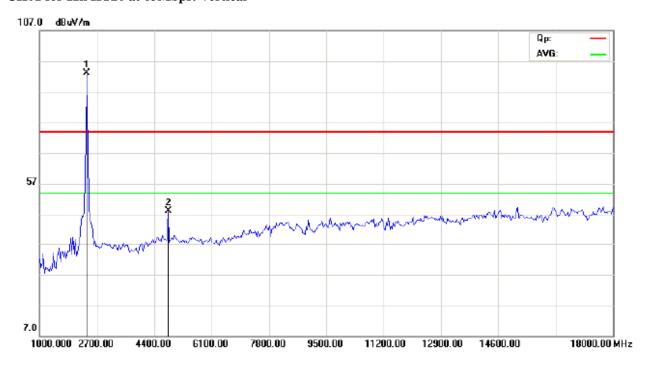


Please refer to the following test plots for details:

### CH01 for 11n HT20 at 65Mbps: Horizontal



### CH01 for 11n HT20 at 65Mbps: Vertical



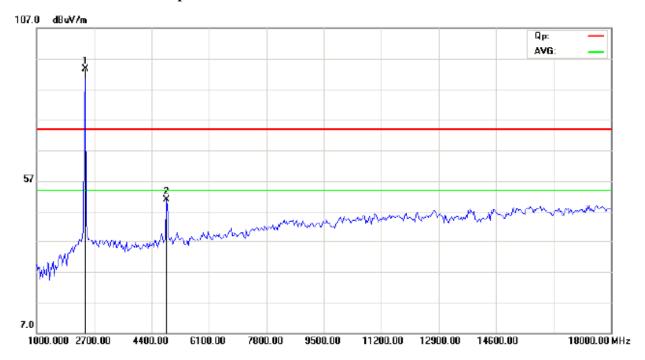
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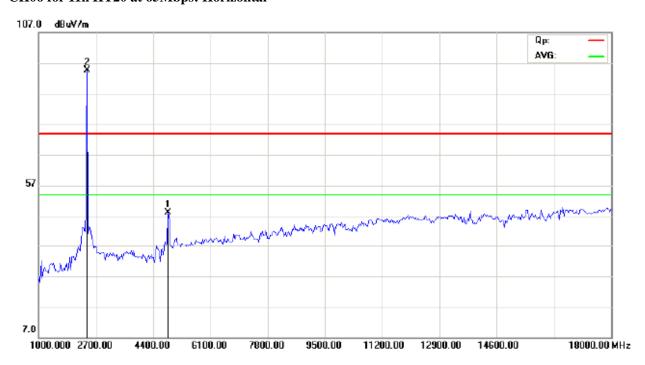
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### CH06 for 11n HT20 at 65Mbps: Vertical



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



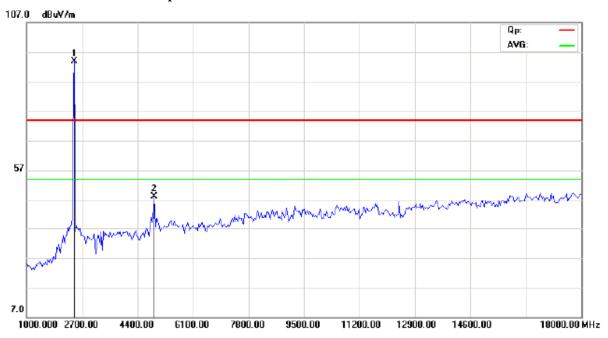
The report refers only to the sample tested and does not apply to the bulk.

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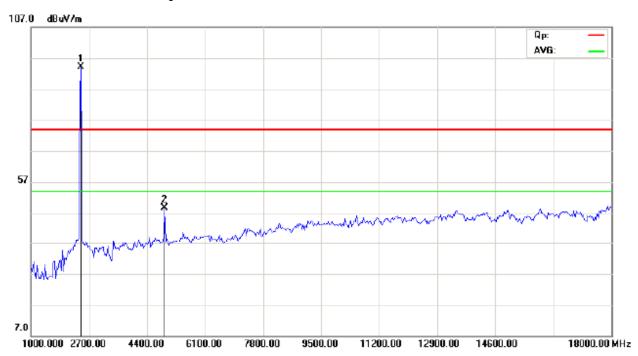
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### CH11 for 11n HT20 at 65Mbps: Vertical



### 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 & Receiving under CH01 for 11n HT40 at 65Mbps

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2422.00	93.06 (PK)	V	Fundamental Frequency
2422.00	94.02 (PK)	Н	Fundamental Frequency
4844.00	(PK)	V	74(Peak)/ 54(AV)
4844.00	48.01 (PK)	Н	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 & Receiving 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	94.46 (PK)	Н	Fundamental Frequency
2437.00	95.35 (PK)	V	
4874.00	46.68 (PK)	Н	74(Peak)/ 54(AV)
4874.00	45.67 (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

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

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

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
2452.00	93.63 (PK)	Н	Fundamental Frequency
2452.00	92.69 (PK)	V	
4904	(PK)	Н	74(Peak)/ 54(AV)
4904	49.08 (PK)	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)

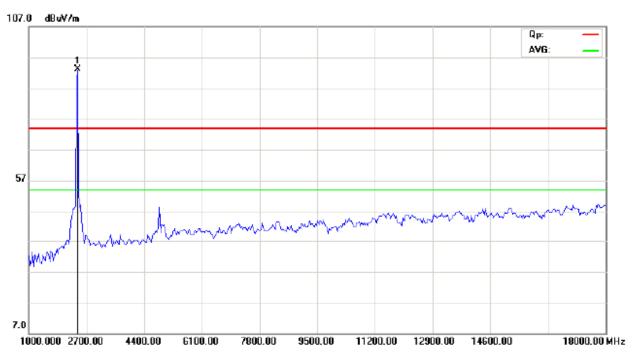
Note: 1. Level = Reading + AF + Cable - Preamp + Filter - Dist, Margin = Level - Limit

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

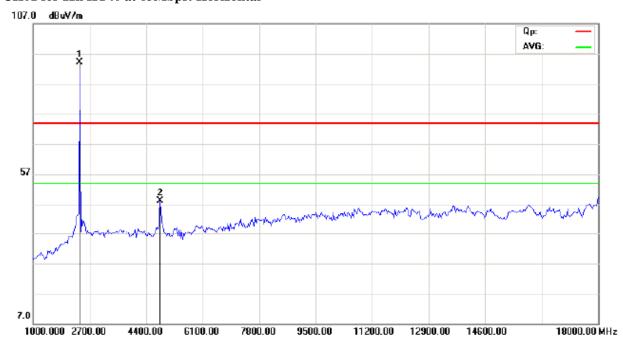


Please refer to the following test plots for details:

# CH01 for 11n HT40 at 65Mbps: Vertical



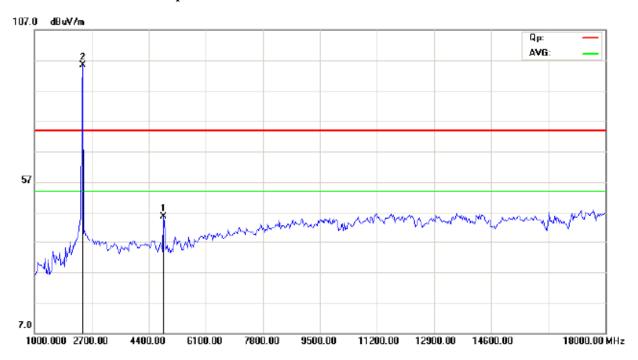
### CH01 for 11n HT40 at 65Mbps: Horizontal



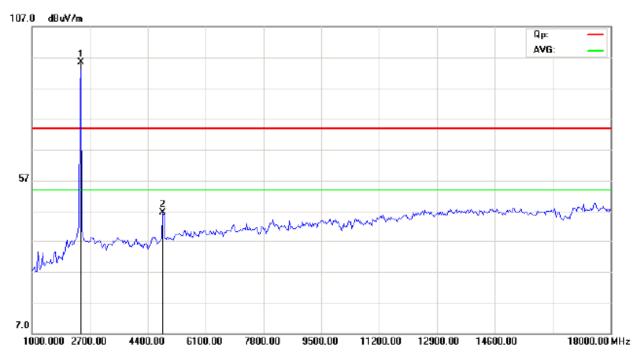
The report refers only to the sample tested and does not apply to the bulk.



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



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



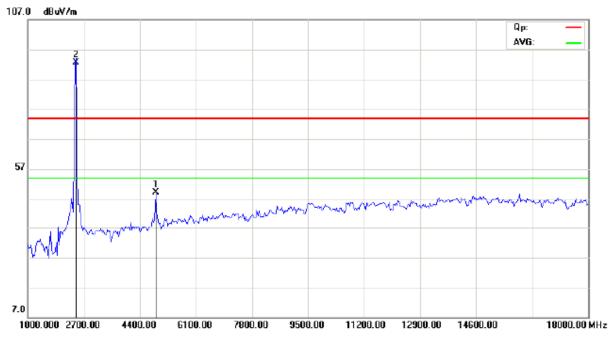
The report refers only to the sample tested and does not apply to the bulk.

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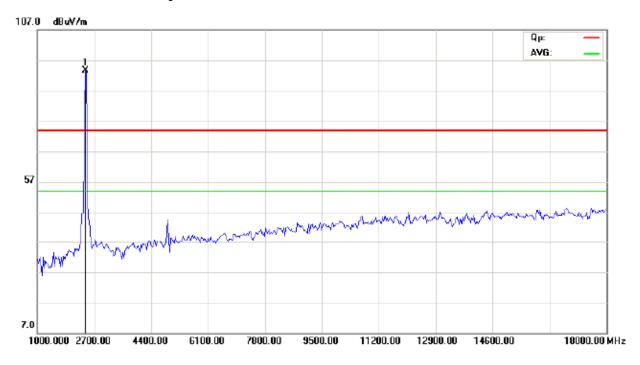
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## CH7 for 11n HT40 at 65Mbps: Vertical



## CH7 for 11n HT40 at 65Mbps: Horizontal



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

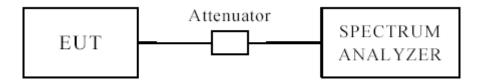
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### 7.0 6dB Bandwidth Measurement

## 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  $(VBW) \ge 3 \times RBW$ .
- 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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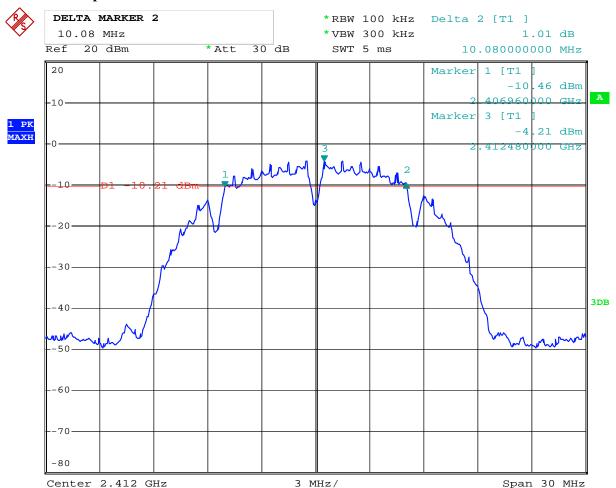
## 6dB Occupied Bandwidth

EUT	EUT		С	Model	PMID705, PMID705X, UMID700C, UTAB71		
Mode	Mode		)	Input Voltage	AC 120V		
Temperate	ure	24 deg. (	C,	Humidity		56% RH	
Channel	(MHz) Rate		Bandwidth (MHz)	num Limit MHz)	Pass/ Fail		
1	2412		1	10.08	0.5	Pass	
6		2437		10.08	0.5	Pass	
11		2462	1	10.14	0.5	Pass	
1		2412		10.02	0.5	Pass	
6	2437		11	10.02	0.5	Pass	
11	2462		11	10.44	0.5	Pass	

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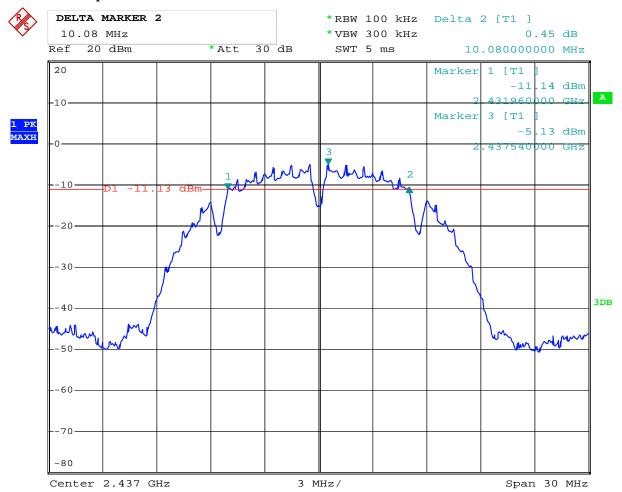




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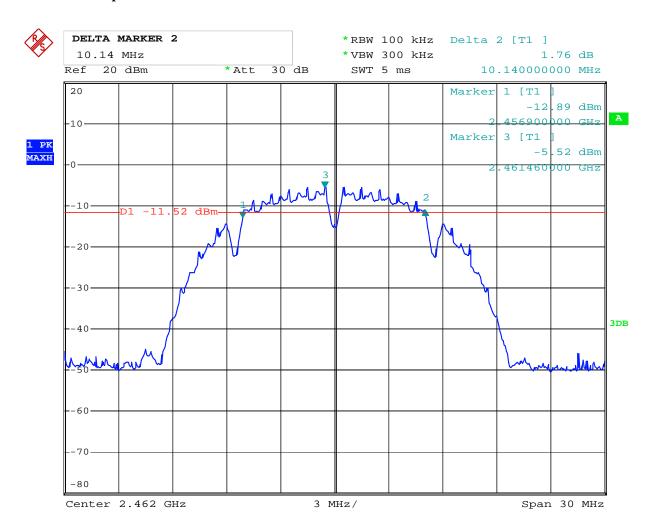




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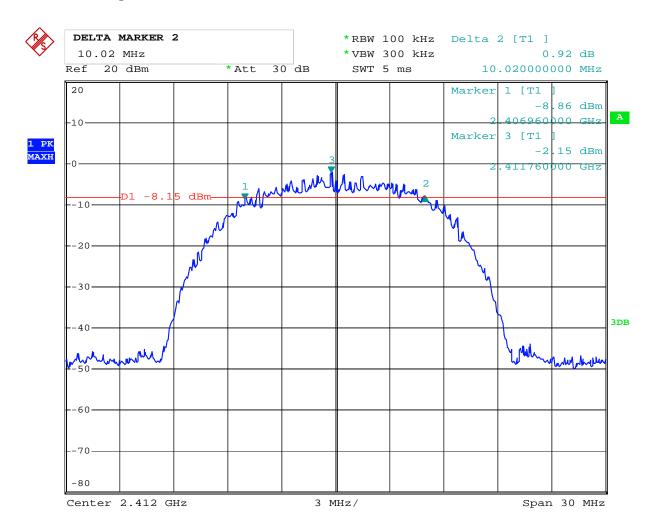




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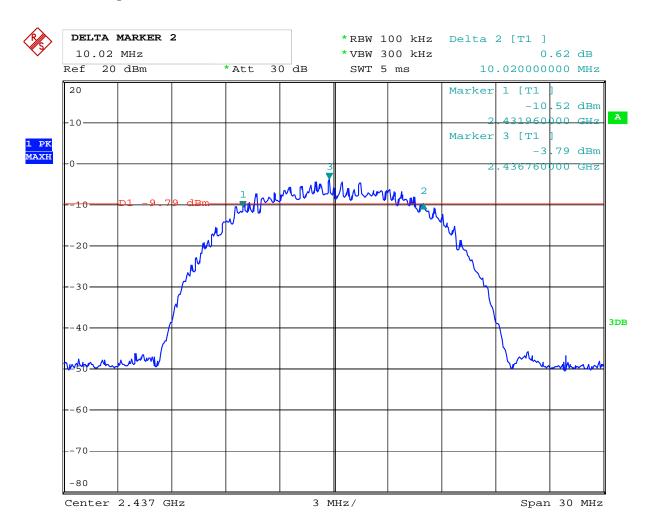




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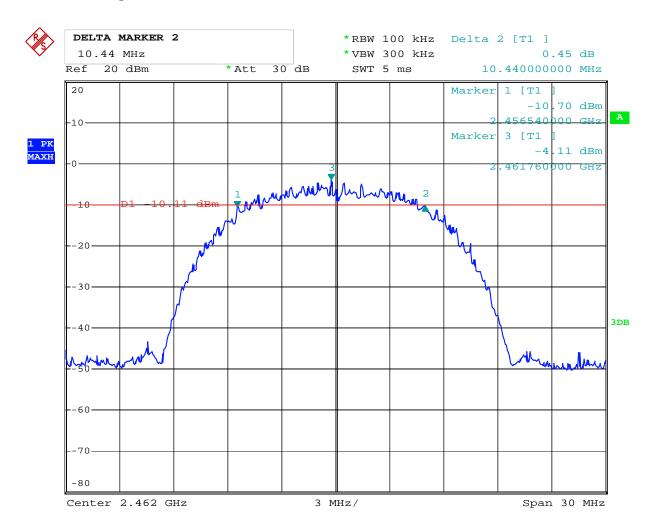




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## 6dB Occupied Bandwidth

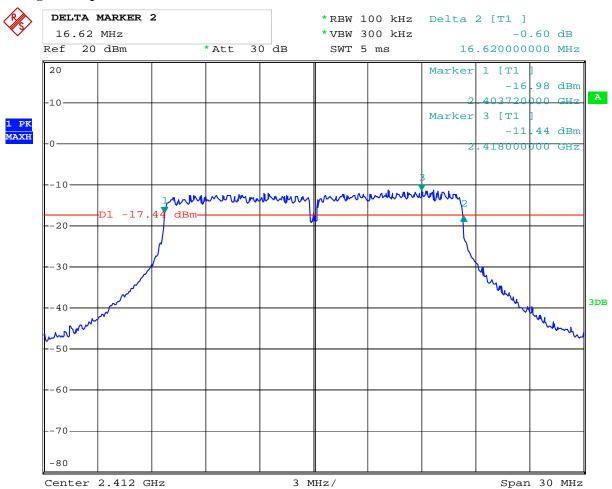
EUT		Tablet PC	Model		PMID705, PMID705X, UMID700C, UTAB71					
Mode	Mode 802.11g Input Voltag		Input Voltag	e	AC 120V					
Temperat	ure	24 deg. C,	Humidity		56% RH					
Channel		nel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass/ Fail			
1		2412	6		16.62	0.5	Pass			
6	2437		6	16.62		0.5	Pass			
11		2462	6		16.62	0.5	Pass			

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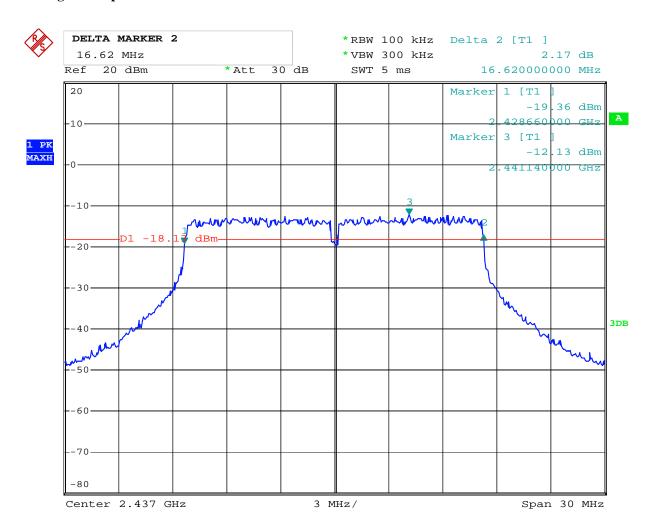
### **Test Plots:**



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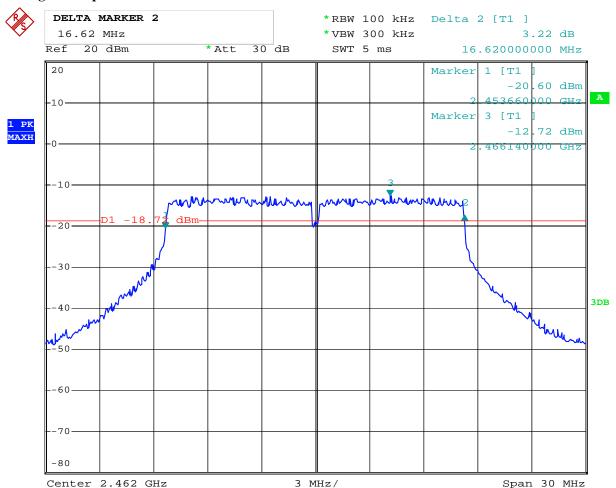




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## 6dB Occupied Bandwidth

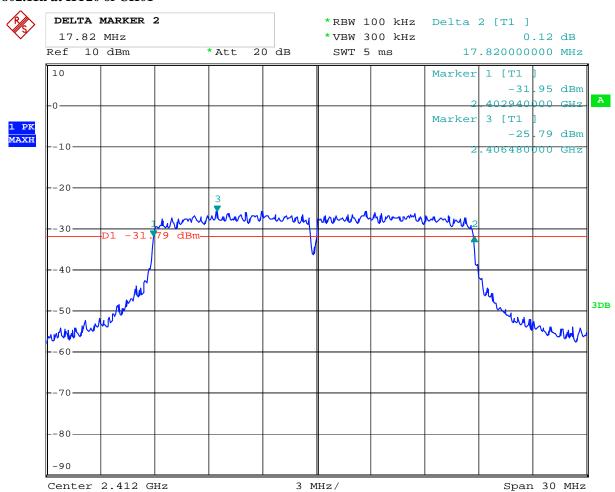
EUT			Tablet PC		Model			705, PMID705X, D700C, UTAB71
Mode			802.11n		Input Vol	tage		AC 120V
Temperatu	ure		24 deg. C,		Humidity			56% RH
Channel		nel Frequency Data Transfer 6 dB Bandwidth (MHz) Rate (Mbps) (MHz)			Minimum Limit (MHz)		Pass/ Fail	
1		2412 HT20		17	17.82		0.5	Pass
6		2437 HT20		17.70			0.5	Pass
11		2462	HT20	17	.76	6 0.5		Pass
1		2422	HT40	36	5.50		0.5	Pass
4		2437	HT40	36	36.55		0.5	Pass
7		2452 HT40 3		36.31		0.5		Pass

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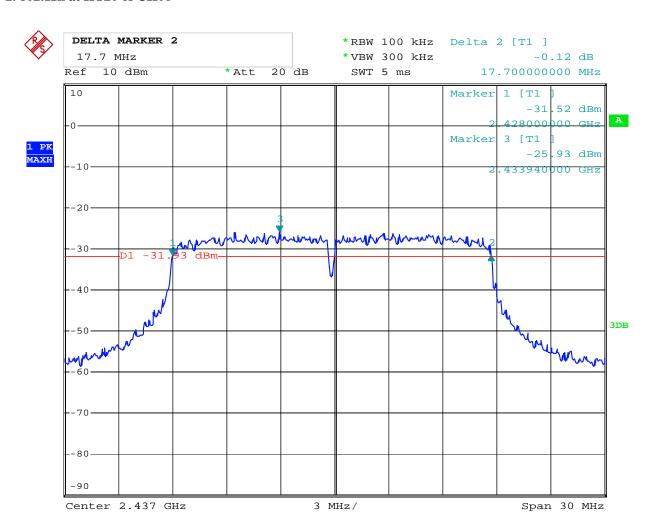
### **Test Plots:**



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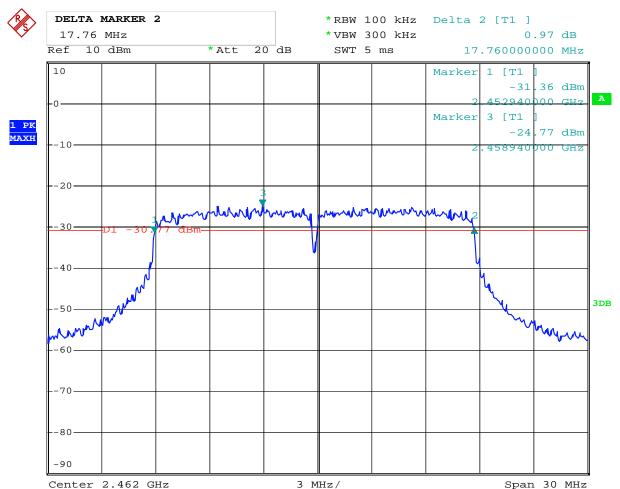




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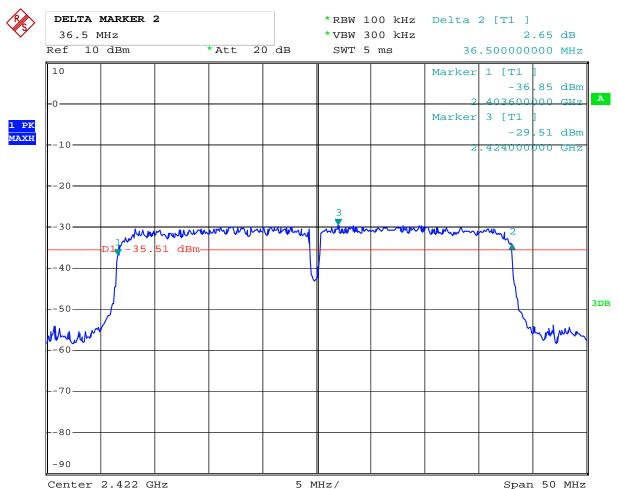




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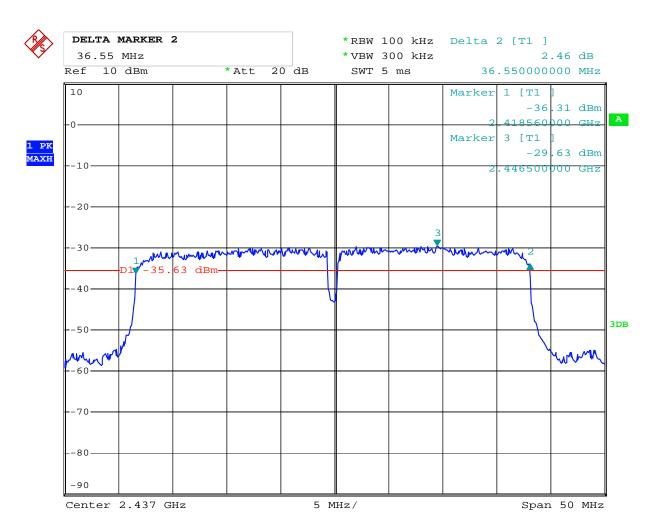




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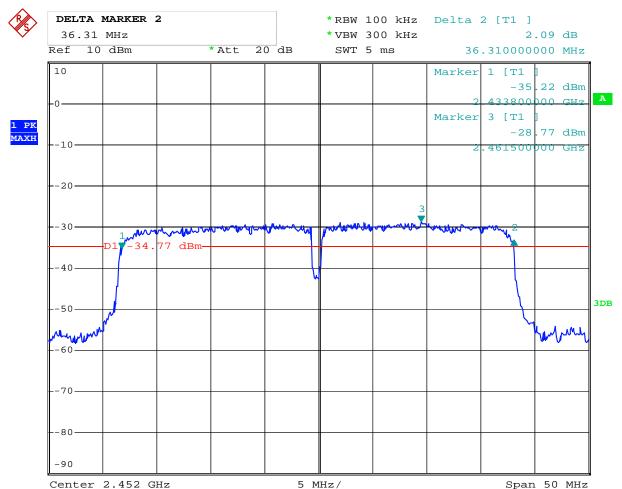




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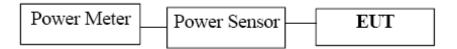
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# 8. Maximum Peak Output Power

## 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		Tablet PC	C	Model		PMID705, PMID705X, UMID700C, UTAB71	
Mode	Mode 802.11b		Input Voltage		ge	See Below	
Temperat	Temperature 24 deg. C,		C, Humidity			56% RH	
Channel	Cha	annel Frequency (MHz)	Peak Power Output (dBm)		P	Peak Power Limit (dBm)	Pass/ Fail
1		2412		10.36		30	Pass
6		2437 1		10.68		30	Pass
11		2462	1	10.47		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 test voltage varied from AC102V-138V. The worse case was recorded

EUT		Tablet PC		Model	PMID705, PMI	D705X, UMID700C, UTAB71		
Mode		802.11g		Input Voltage		See Below		
Temperati	Temperature 24 deg. C,			Humidity	Humidity 56% RH			
Channel	Cha	Channel Frequency		Peak Power Output	Peak Power Limit	Pass/ Fail		
Chamie		(MHz)	(dBm)		(dBm)			
1		2412		2412 9.25		9.25	30	Pass
6		2437		2437 9.51		30	Pass	
11		2462	9.32		30	Pass		

Note: 1. At finial test to get the worst-case emission at 54Mbps for CH01, CH06 and CH11

2. The result basic equation calculation as follow:

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

3. The test voltage varied from AC102V-138V. The worse case was recorded

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EUT	EUT Tablet PC			Model		D705, PMID705X, ID700C, UTAB71		
Mode		802.11n (HT20) Input Voltage		See Below				
Temperat	ure	24 deg. C,	24 deg. C, Humidity			56% RH		
Channel	Cha	annel Frequency (MHz)		ak Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail		
1		2412		8.23	30	Pass		
6		2437		8.17	30	Pass		
11		2462		8.33	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 test voltage varied from AC102V-138V. The worse case was recorded

EUT		Tablet PC		Model		MID705, PMID705X, MID700C, UTAB71
Mode	ode 802.11n (HT40)		40)	Input Voltage		See Below
Temperati	ıre	24 deg. C	,	Humidity		56% RH
Channel	Cha	1		Power Output (dBm)	Peak Power Limit (dBm)	Pass/ Fail
1		2422	2422		30	Pass
4		2437		3.69		Pass
7		2452		3.77	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 test voltage varied from AC102V-138V. The worse case was recorded

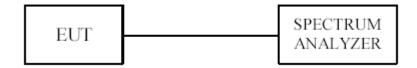
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# 9. Power Spectral Density Measurement

## 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	EUT Tablet PC		Model Model			PMID705, PMID705X, UMID700C, UTAB71
Mode	e 802.11b 11Ml		Ibps Input Voltage		e	AC 120V
Temperatur	Temperature 24 deg. C,		,	Humidity		56% RH
Channel	Channel Frequency (MHz) Level i		RF Power in 3kHz BW (dBm)	Maximum Limit (dBm)	Pass/ Fail	
				11Mbps		
1		2412	412 -		8	Pass
6		2437		-13.83	8	Pass
11		2462		-14.28	8	Pass

		1				
EUT		Tablet PC		Model		PMID705, PMID705X,
						UMID700C, UTAB71
Mode	Mode 802.11b 11Mbps		bps	Input Voltage	e	AC 120V
Temperatu	ture 24 deg. C, Humidity		56% RH			
	Ch	onn ol Eno asson ass	Final	RF Power	Maximum	Pass/ Fail
Channel	CII	annel Frequency	Level in 3kHz BW		Limit	Pass/ Fall
		(MHz)	(dBm)		(dBm)	
				1Mbps		
1		2412	-	-16.89	8	Pass
6		2437	-	-17.94	8	Pass
11		2462		-18.25	8	Pass

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EUT		Tablet PC	Model		PMID705, PMID705X, UMID700C, UTAB71		
Mode		802.11g 6Mbps	Input Voltage		AC 120V		
Temperature	;	24 deg. C,	Humidity		56% RH		
Channel	Ch	annel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)	1	Maximum Limit (dBm)	Pass/ Fail	
			6Mbps	S			
1		2412	-19.27		8	Pass	
6		2437	-20.19		8	Pass	
11		2462	-20.34		8	Pass	

EUT		Tablet PC	Model		PMID705, PMID705X, UMID700C, UTAB71		
Mode		802.11g 6Mbps	Input Voltage		AC 120V		
Temperature		24 deg. C,	Humidity		56% RH		
Channel	Channel Frequency (MHz)		Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm) Pass/ Fail		
			HT20				
1		2412	-33.90		8	Pass	
6		2437	-33.03		8	Pass	
11		2462	-32.71		8	Pass	

EUT		Tablet PC	Model		PMID705, PMID705X, UMID700C, UTAB71		
Mode		802.11g 6Mbps	Input Voltage		AC 120V		
Temperature	;	24 deg. C,	Humidity		56% RH		
Channel	Cha	annel Frequency (MHz)	Final RF Power Level in 3kHz BW (dBm)		Maximum Limit (dBm)	Pass/ Fail	
			HT40	ı			
1		2412	-36.79		8	Pass	
6		2437	-36.18		8	Pass	
11		2462	-35.10		8	Pass	

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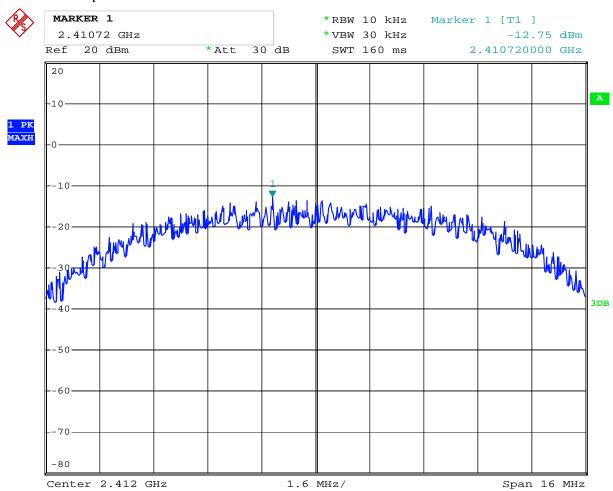
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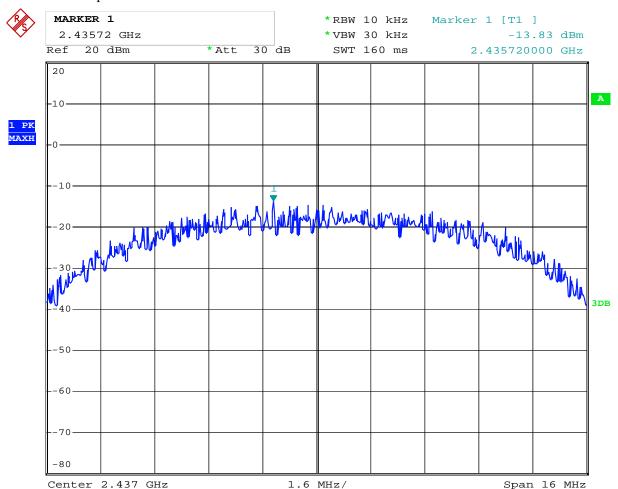
## 9.5 Photo of Power Spectral Density Measurement



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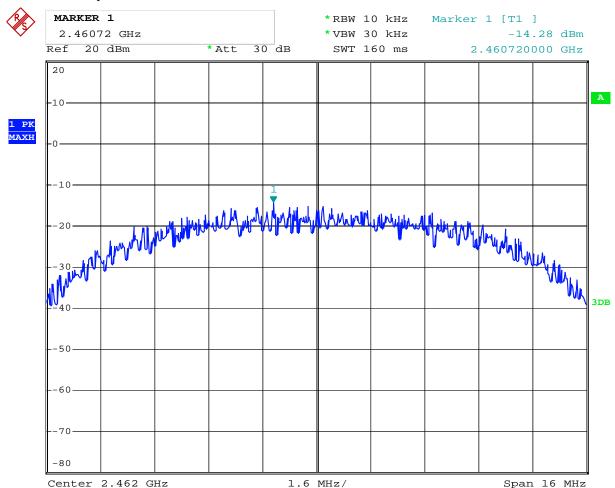




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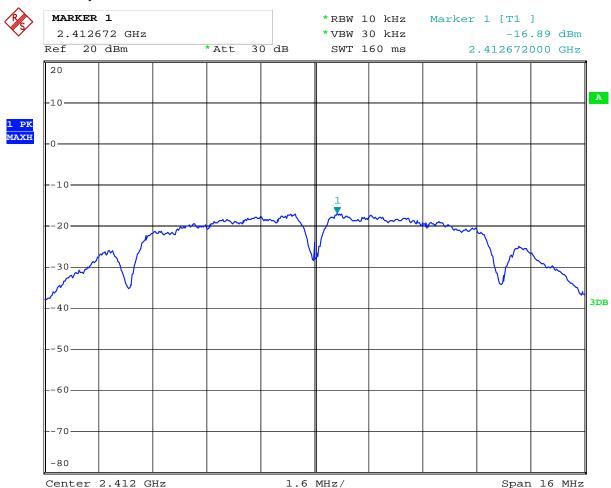


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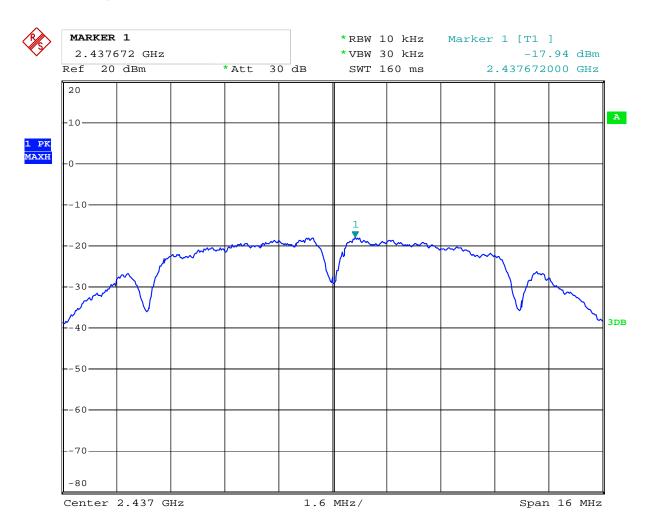




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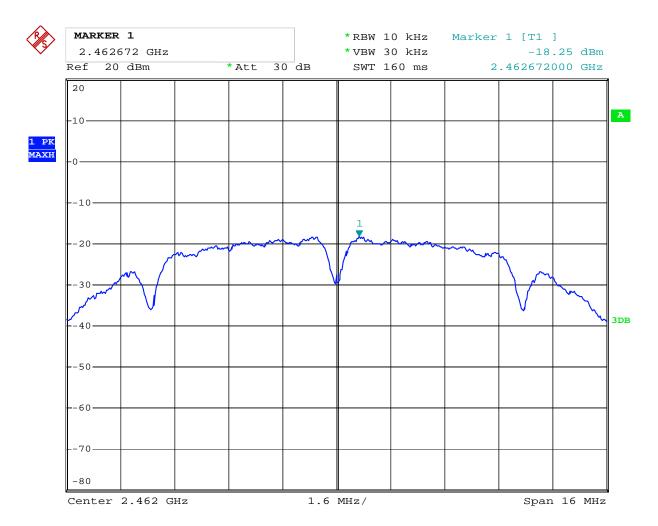




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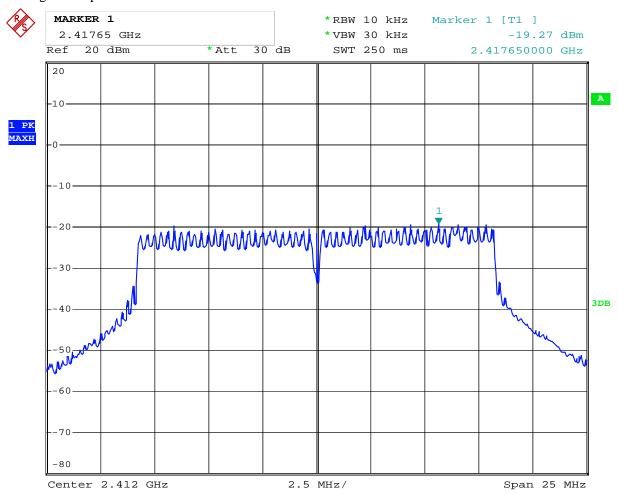




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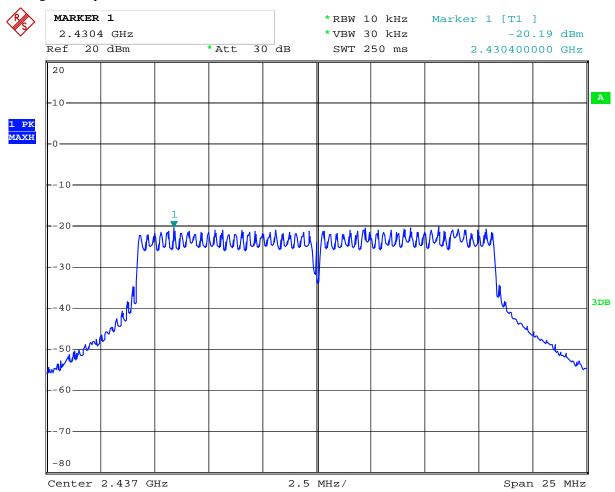




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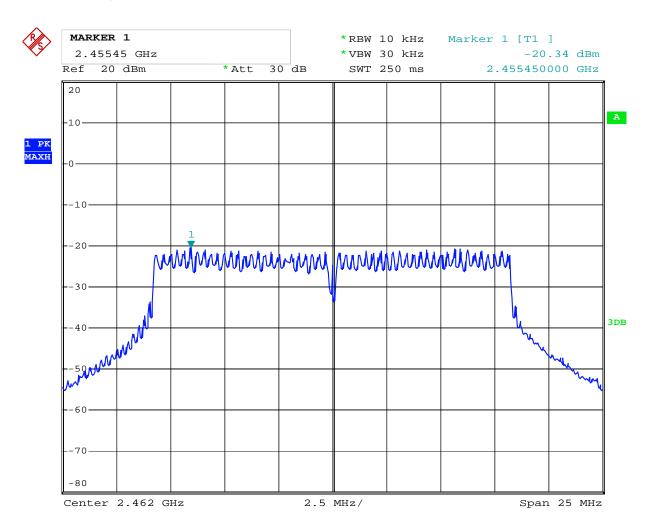




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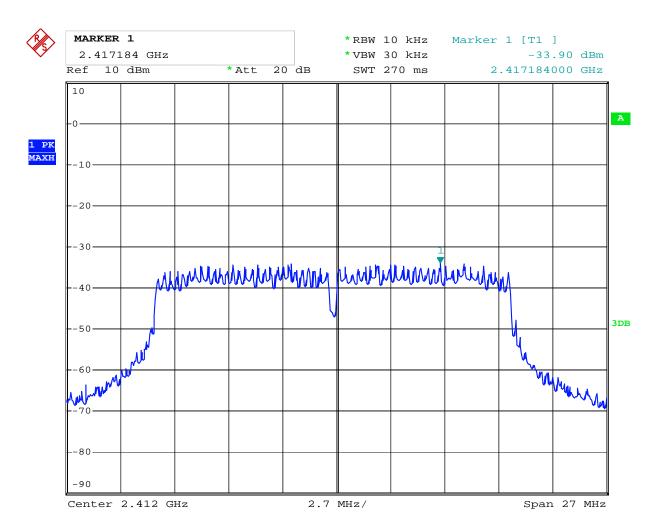




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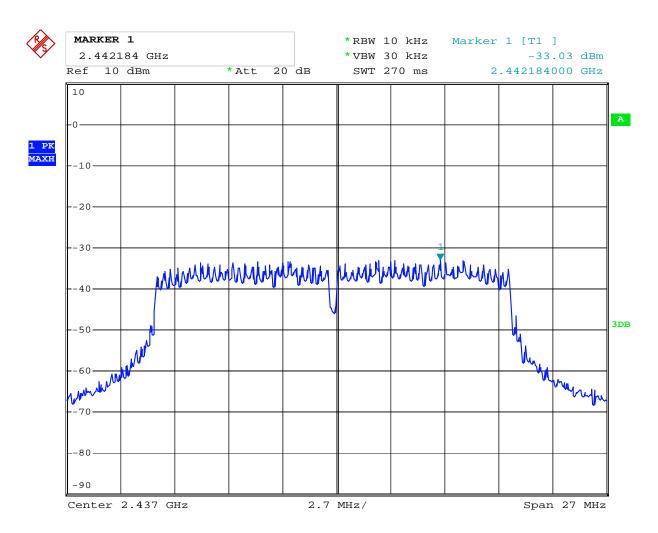


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#### 11. 802.11n at HT20 of CH06

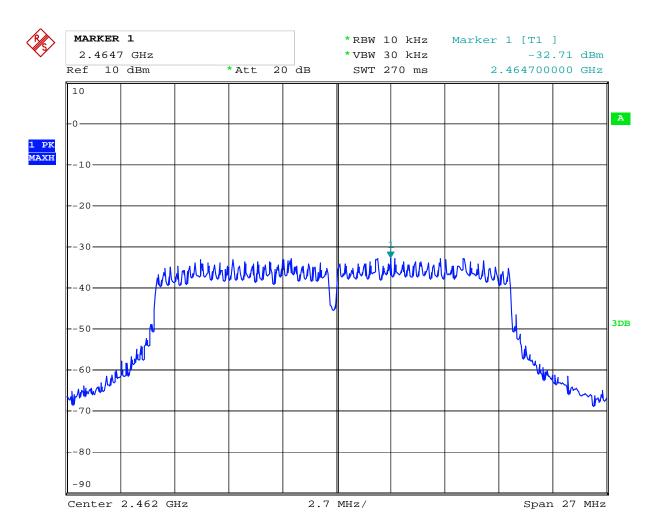


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#### 12. 802.11n at HT20 of CH11

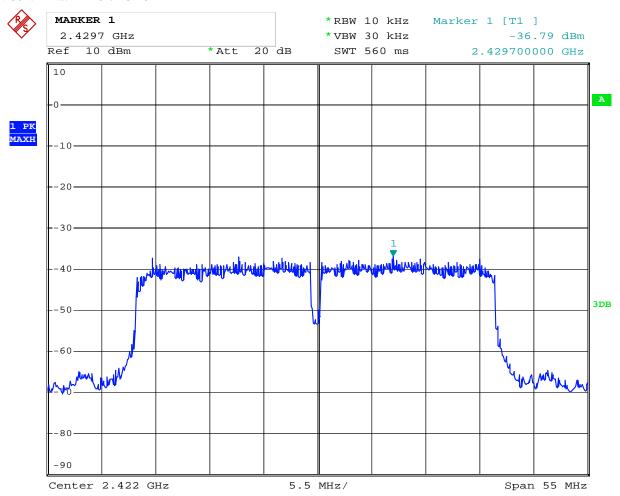


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#### 13. 802.11n at HT40 of CH01

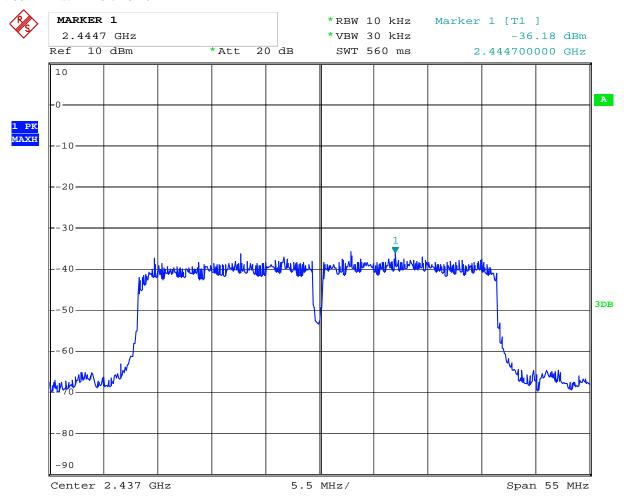


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## 14. 802.11n at HT40 of CH04

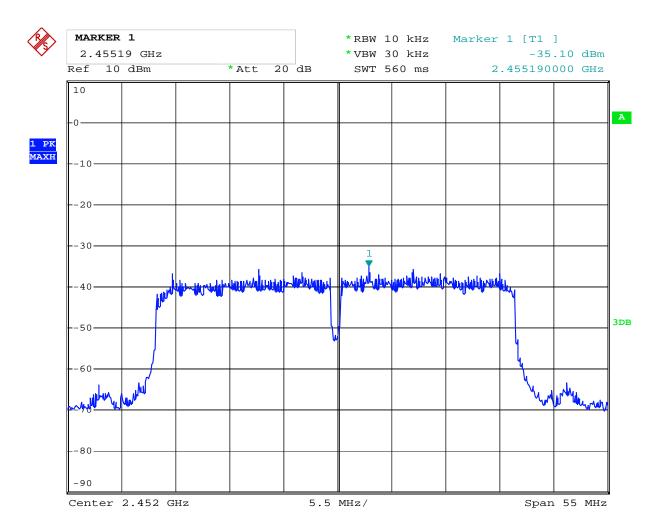


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## 15. 802.11n at HT40 of CH07



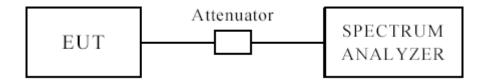
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## **10 Out of Band Measurement**

# 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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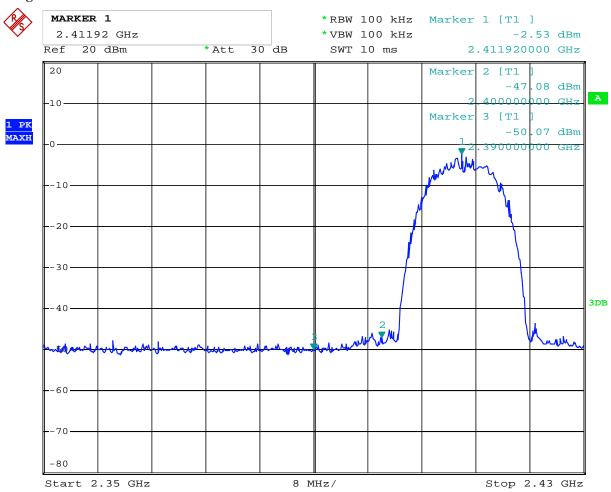
## For 802.11b mode

## CH01 at 11Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Tablet PC		Model:	PMID705, PMID705X, UMID700C, UTAB71
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBµV/m)	41.98	T :maid	$74(dB\mu V/m)$
	AV ( $dB\mu V/m$ )	-	Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	40.28	Limit	$74(dB\mu V/m)$
	$AV (dB\mu V/m)$	-	Limit	$54(dB\mu V/m)$

## **Test Figure:**



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

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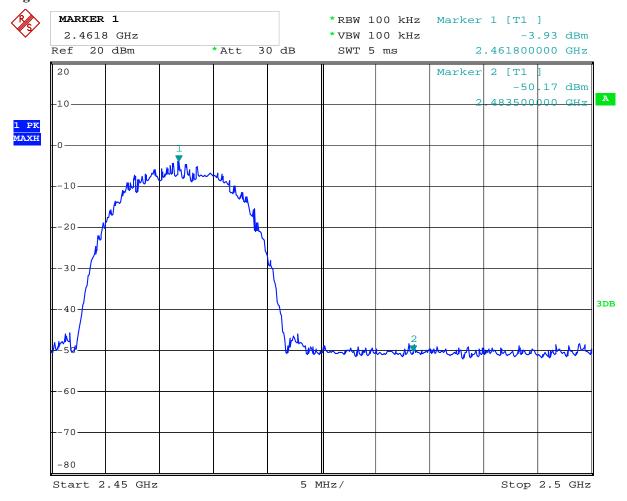


## CH11 at 11Mbps

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

Product:	Ta	ablet PC	Model:	PMID705, PMID705X,
Troduct.				UMID700C, UTAB71
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24	deg. C,	Humidity	56% RH
Test Result:		Pass	Detector	PK
2483.5	PK (dBµV/m)	41.70	T ::4	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



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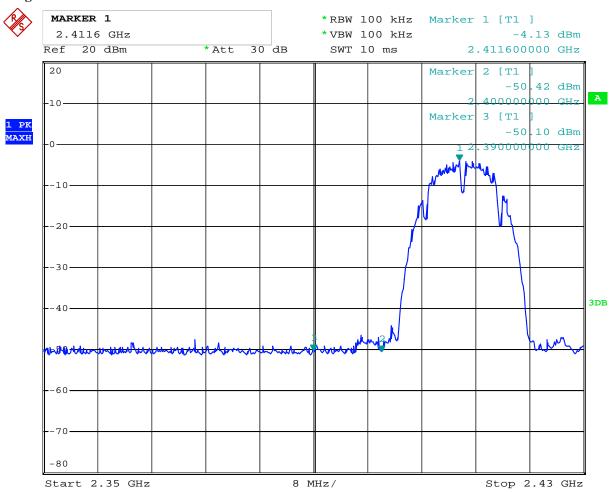
## For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge and Restricted band Measurement

2011 2 and bags and resolution can a recommend							
Product:	Tablet PC		Model:	PMID705, PMID705X, UMID700C, UTAB71			
Mode	Keeping Transmitting		Input Voltage	AC 120V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2400	PK (dBµV/m)	41.32	T ::4	$74(dB\mu V/m)$			
	AV (dBμV/m)		Limit	54(dBµV/m)			
2390	PK (dBµV/m)	40.94	Limit	$74(dB\mu V/m)$			
	AV ( $dB\mu V/m$ )		Lillill	54(dBµV/m)			

## **Test Figure:**



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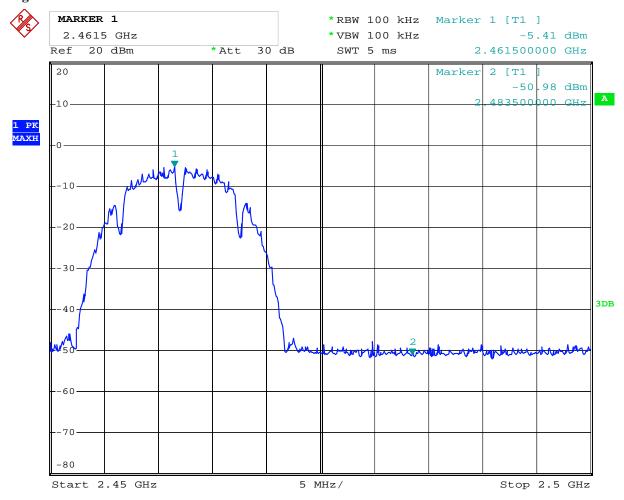


## CH11 at 1Mbps

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

Product:	Ta	ablet PC	Model:	PMID705, PMID705X, UMID700C, UTAB71
Mode	Keeping	g Transmitting	Input Voltage	AC 120V
Temperature	24	l deg. C,	Humidity	56% RH
Test Result:		Pass	Detector	PK
2483.5	PK (dBµV/m)	41.55	T imais	$74(dB\mu V/m)$
	AV ( $dB\mu V/m$ )		Limit	54(dBμV/m)

## **Test Figure:**



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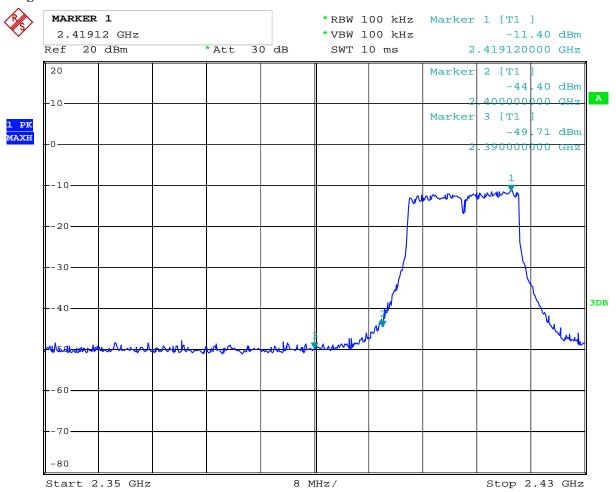
## For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Tablet PC		Model:	PMID705, PMID705X, UMID700C, UTAB71
Mode	Keeping Transmitting		Input Voltage	AC 120V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400	PK (dBµV/m)	48.06	T imit	$74(dB\mu V/m)$
	AV $(dB\mu V/m)$		Limit	$54(dB\mu V/m)$
2390	PK (dBµV/m)	41.53	Limit	74(dBμV/m)
	$AV (dB\mu V/m)$		Limit	54(dBµV/m)

## **Test Figure:**



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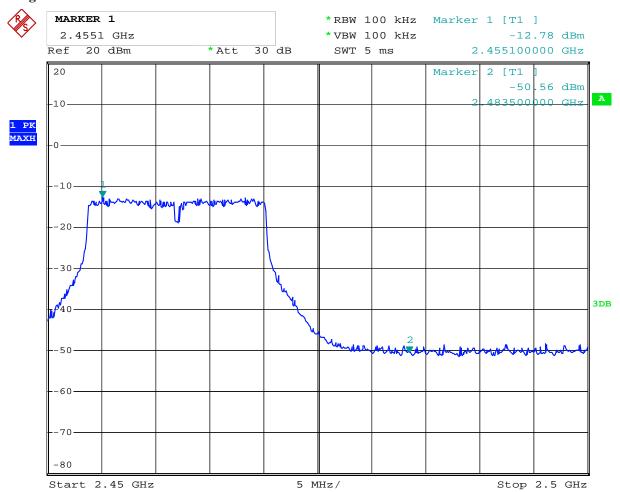


## CH11 at 6Mbps

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

Product:	Ta	Mod	lel:	PMID705, PMID705X, UMID700C, UTAB71	
Mode	Keeping	Input Voltage		AC 120V	
Temperature	24	Humi	Humidity 56% RH		
Test Result:	Pass		Detec	ctor	PK
2483.5	PK (dBμV/m) 41.52		Limit	$74(dB\mu V/m)$	
	AV $(dB\mu V/m)$		Limit		$54(dB\mu V/m)$

## **Test Figure:**



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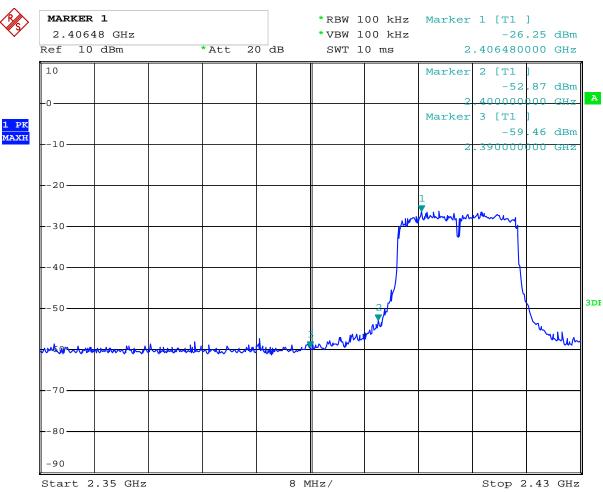
## For 802.11n (HT20) mode

CH01 at 65Mbps

10.4 Band-edge and Restricted band Measurement

Product:	Tablet PC		Model:	PMID705, PMID705X, UMID700C, UTAB71			
Mode	Keeping Transmitting		Input Voltage	AC 120V			
Temperature	24 deg. C,		Humidity	56% RH			
Test Result:	Pass		Detector	PK			
2400	PK (dBµV/m)	48.76	T :!4	$74(dB\mu V/m)$			
	AV ( $dB\mu V/m$ )		Limit	$54(dB\mu V/m)$			
2390	PK (dBμV/m)	41.38	Limit	$74(dB\mu V/m)$			
	AV ( $dB\mu V/m$ )		Lillit	$54(dB\mu V/m)$			

## **Test Figure:**



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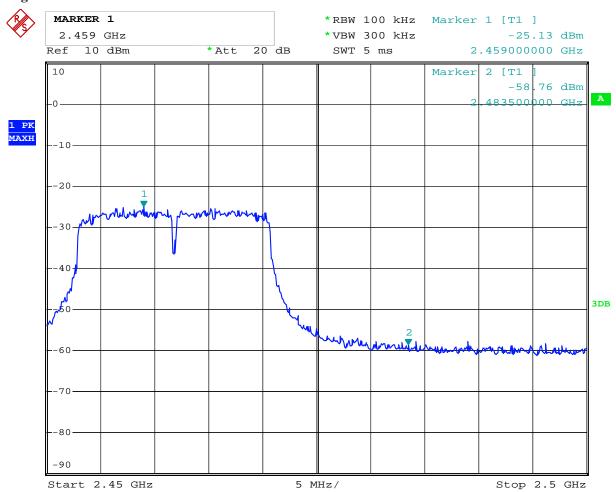


## CH11 at 65Mbps

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

Product:	Ta	ablet PC	Model:	PMID705, PMID705X, UMID700C, UTAB71
Mode	Keeping	g Transmitting	Input Voltage	AC 120V
Temperature	24	l deg. C,	Humidity	56% RH
Test Result:		Pass	Detector	PK
2483.5	PK (dBµV/m)	41.84	T imais	$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



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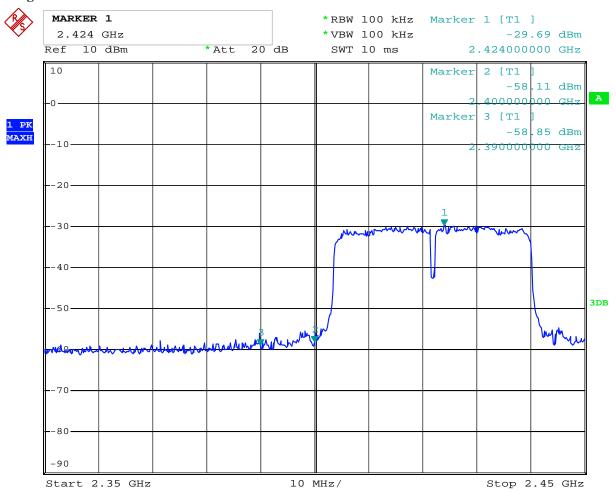
## For 802.11n (HT40) mode

CH01 at 65Mbps

## 10.4 Band-edge and Restricted band Measurement

Product:	Tablet PC			Model:	PM	IID705, PMID705X, UMID700C, UTAB71	
Mode	Keeping Transmitting		In	put Voltage	AC 120V		
Temperature	24 deg. C	C,		Humidity	56% RH		
Test Result:	Pass		Detector			PK	
2400	PK (dBµV/m)	42.89		T : '.		$74(dB\mu V/m)$	
	AV $(dB\mu V/m)$		Limit			$54(dB\mu V/m)$	
2390	PK (dBµV/m)	41.76		Limit $\frac{74(dB\mu V/m)}{54(dB\mu V/m)}$		74(dBμV/m)	
	AV $(dB\mu V/m)$					$54(dB\mu V/m)$	

## **Test Figure:**



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

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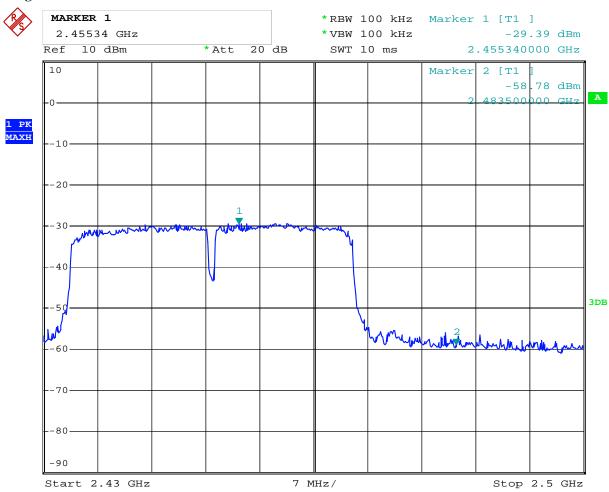


## CH7 at 65Mbps

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

Product:	Tablet PC		Model:	PMID705, PMID705X, UMID700C, UTAB71
				UMID/OOC, UTAB/T
Mode	Keeping	Transmitting	Input Voltage	AC 120V
Temperature	24	deg. C,	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5	PK (dBµV/m)	$(dB\mu V/m)$ 42.15		$74(dB\mu V/m)$
	AV (dBμV/m)		Limit	$54(dB\mu V/m)$

## **Test Figure:**



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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

Ceramic Antenna used. The maximum Gain of the antennas is 2.1dBi.

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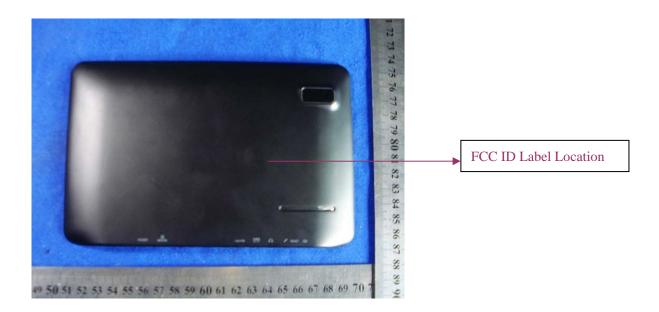
## 12.0 FCC ID Label

## FCC ID: RBD-FCV1208038C

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:





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

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## Photographs - EUT

#### Outside view





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## Outside view



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Inside view





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Inside view





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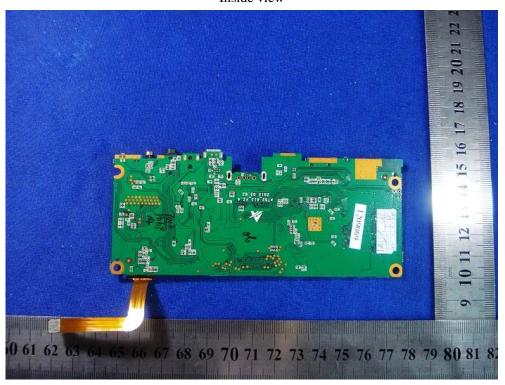
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Inside view





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## Power Supply





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Power Supply



End of the report