

Report No.: EF/2011/10007 Issue Date: Mar. 25, 2011

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# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

# INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

*OF* 

**Product Name: Tablet PC** 

**Brand Name:** Sahara, Tabletkiosk, PaceBlade

**Model Name:** i500, TS500, SlimBook 240 Series

Model No. of

622ANHMW **WLAN Modular:** 

**Model Different:** Different model for different market

FCC ID: XHFTK500ABGNTS500

IC: 8434A-500TS500

**Report No.:** EF/2011/10007

**Issue Date:** Mar. 25, 2011

**FCC Rule Part: §15.407** 

IC Rule Part: RSS-210 issue 8:2010, Annex 9

**Prepared for: Tabletkiosk** 

2832 Columbia Street, Torrance, California

90503

SGS Taiwan Ltd. Prepared by:

> **Electronics & Communication Laboratory** No. 134, Wu Kung Rd., Wuku Industrial

Zone, Taipei County, Taiwan.





0513

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## VERIFICATION OF COMPLIANCE

**Applicant: Tabletkiosk** 

2832 Columbia Street, Torrance, California 90503

**Product Name:** Tablet PC

**Brand Name:** Sahara, Tabletkiosk, PaceBlade

FCC ID: XHFTK500ABGNTS500

IC: 8434A-500TS500

**Model Name of Host:** i500, TS500, SlimBook 240 Series

Model No. of WLAN

622ANHMW Modular:

**Model Difference:** Different model for different market

File Number: EF/2011/10007

Date of test: Jan. 28, 2011 ~ Mar. 23, 2011

**Date of EUT Received:** Jan. 28, 2011

# We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 and RSS-210 issue 8: 2010 Annex 9. The test results of this report relate only to the tested sample identified in this report.

Test By: Mar. 25, 2011 Date: Bondi Liu / Engineer Prepared By: Date: Mar. 25, 2011 Gigi Yeh/ Clerk Mar. 25, 2011 Approved By: Date: Jim Chang / Supervisor

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# Version

Version No.	Date	Description	
00	Mar. 25, 2011	Initial creation of document	

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# **GENERAL INFORMATION**

# 1.1. Product Description

#### General:

General.							
Product name:	Tablet PC						
Brand Name:	Sahara, Tabletkiosk, PaceBlade				Sahara, Tabletkiosk, PaceBlade		
Model Name:	i500, TS500, SlimBook 240 Series						
Model Difference:	Different model for different market						
WLAN module FCC ID:	PD9622ANXH						
WLAN module IC ID:	1000M-622ANH						
	11.1Vdc Li	Li-Ion battery or 20Vdc from AC/DC power adapter					
	Battery:	Model: TSE57-3CLI,					
Power Supply:	Dallery.	Supplier: T-Gee Electronics Co., LTD.					
	Adapter:	Model: PA-1650-68					
	Auapiei.	Supplier: LITE-ON TECHNOLOGY CORPORATION					

WLAN: 802.11 a/b/g/n

VV EDITION (	LAN. 802.11 a/0/g/ii						
Wi-Fi	Frequency Range (MHz)	Channels	Rated Power	Type of Emission	Modulation Technol- ogy		
11b/g	2412-2462	11	b : 16.52dBm g : 16.48dBm	b: 14M0G1D g: 16M6G1D	DSSS, OFDM		
11n	HT20 2412-2462	11	n(20M) : 16.55 dBm	17M9G1D	OFDM		
(2.4G Band)	HT40 2422-2452	9	n(40M): 16.55 dBm	36M0G1D	OFDM		

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Wi-Fi	Frequency Range	Channels	Rated Power	Type of Emission	Modulation Technology
	5150~5250	4	16.50dBm	16M4G1D	
11a	5250~5350	4	16.42 dBm	16M4G1D	OFDM
	5470~5725	11	16.52dBm	16M4G1D	
	HT20 5150~5250	4	HT20:17.03dBm	17M6G1D	
11n	HT20 5250~5350	4	HT20:16.83dBm	17M6G1D	OFDM
	HT20 5470~5725	11	HT20:16.78dBm	17M6G1D	
	HT40 5150~5250	2	HT40:16.71dBm	36M0G1D	
11n	HT40 5250~5350	2	HT40:16.87dBm	36M0G1D	OFDM
	HT40 5470~5725	5	HT40:16.68dBm	36M0G1D	
11a	5725-5850	5	a : 16.68 dBm	16M4G1D	
11n	HT20 5725-5850	5	HT20: 16.67 dBm	17M6G1D	OFDM
(5GHz)	HT40 5725-5850	2	HT40: 16.58 dBm	36M9G1D	

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	Supplier: AEGIS LABS			
WLAN FCC Modular Report:	Report Owner: Intel Corporation			
WEART CE Woddia Report.	Model: 622ANHMW			
	Report Number: INTEL-090602F			
	Supplier: AEGIS LABS			
WI AN IC Modular Papart	Report Owner: Intel Corporation			
WLAN IC Modular Report:	Model: 622ANHMW			
	Report Number: INTEL-090602IC			
	Supplier: Elliott Laboratories			
DES Madular Danart	Report Owner: Intel Corporation			
DFS Modular Report:	Model: 622ANHMW			
	Report Number: R76613			
	Antenna Type : PIFA			
	Antenna A:			
	(Aux) Antenna gain : (2.4G)-2.05 dBi, (5G) 2.69dBi			
Antenna Designation	Model No.: T12C-L			
	Antenna B:			
	(Main) Antenna gain : (2.4G)-1.03 dBi, (5G) 3.26dBi			
	Model No.: T12C-R			
Nr. 1.1.4	CCK, DQPSK, DBPSK for DSSS			
Modulation type	64QAM. 16QAM, QPSK, BPSK for OFDM			
	802.11 a: 6/9/12/18/24/36/48/54 Mbps;			
	802.11 b: 1/2/5.5/11 Mbps;			
Transition Rate:	802.11 g: 6/9/12/18/24/36/48/54 Mbps			
	802.11 n 20MHz: 6.5 – 72.2Mbps			

The 2.4G max antenna gain is -1.03dBi which was choosing for Radiated Spurious Emission test.

The 5G max antenna gain is 3.26dBi which was choosing for Radiated Spurious Emission test.

The EUT is compliance with IEEE 802.11 a/b/g /n Standard.

This report applies for frequency bands 5150 MHz-5250 MHz, 5250MHz-5350MHz and 5470 MHz-5725 MHz.

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### 1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: XHFTK500ABGNTS500 filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and

IC: 8434A-500TS500 filing to comply with Industry Canada RSS-210 issue 8: 2010 Annex 9. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

## 1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

# 1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 134, Wu Kung Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003. FCC Registration Number are: 990257 and 236194, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

#### 1.5. Special Accessories

Not available for this EUT intended for grant.

# 1.6. Equipment Modifications

Not available for this EUT intended for grant.

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#### 2. SYSTEM TEST CONFIGURATION

# 2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### 2.2. EUT Exercise

The EUT (Transmitter) was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

#### 2.3. Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 7 and 13 of ANSI C63.4-2003. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and Average detector mode.

## 2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." Is still within the 3Db illumination BW of the measurement antenna. According to the requirements in Section 8 and 13 and Subclause 8.3.1.2 of ANSI C63.4-2003.

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# 2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



**Table 2-1 Equipment Used in Tested System** 

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.
1.	AC Adaptor	LITE-ON	PA-1650-68	N/A
2.	WLAN Software	Intel	OET- DRTU_1_3_11_0254_20110215	N/A

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## SUMMARY OF TEST RESULT

FCC Rules	<b>Description Of Test</b>	Result
§15.207	AC Power Line Conducted	refer to modular report
RSS-Gen §7.2.2	Emission	
§15.407(a)	26 dB Emission Bandwidth	refer to modular report
§15.407(a)		
RSS 210 A9.2		
RSS-Gen §4.4.1		
§15.407(a)	Peak Output Power Measurement	Compliant
RSS 210 A9.2(1)		
§15.407(a)	Peak Power Spectral Density	refer to modular report
RSS 210 A9.2(1)	Measurement	
15.407(a)(6)	Peak Excursion Measurement	refer to modular report
§15.407(b)	Undesirable Emission – Con-	refer to modular report
RSS 210 A9.3	ducted Measurement	
§15.407(b)	Undesirable Emission – Radiated	Compliant
RSS 210 A9.3	Measurement	
§15.407©	Transmission in case of Absence	Compliant
RSS 210 A9.5(4)	of Information	
§15.407(g)	Frequency Stability	refer to modular spec /
RSS 210 A9.5(5)		Compliant
§15.407(a)	Antenna Requirement	Compliant
RSS-210 issue 7,§A8.4		

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## DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

Test program used to control the EUT for staying in continuous transmitting mode is programmed.

a mode: 5150MHz-5250MHz: Channel lowest(5180MHz), Mid(5220MHz) and Highest(5240MHz).

5250MHz-5350MHz: Channel lowest (5260MHz), Mid (5300MHz) and Highest (5320MHz).

5470MHz-5725MHz: (5500MHz), Mid(5580MHz) and Highest(5700MHz) and with 6Mbps data rate

are chosen for full testing.

n HT 20 mode: : 5150MHz-5250MHz: Channel lowest(5180MHz), Mid(5220MHz) and High-

est(5240MHz).

5250MHz-5350MHz: Channel lowest(5260MHz), Mid(5300MHz) and Highest(5320MHz).

5470MHz-5725MHz: (5500MHz), Mid(5580MHz) and Highest(5700MHz) with 6.5Mbps data rate are

chosen for full testing

n HT 40 mode: 5150MHz-5350MHz:Channel lowest(5190MHz), Highest(5230MHz)

5250MHz-5350MHz:Channel lowest(5270MHz), Highest(5310MHz)

5470MHz-5725MHz: Channel lowest(5510MHz), Mid(5590MHz)and Highest(5670MHz)

with 13.5Mbps data rate are chosen for full testing

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#### PEAK OUTPUT POWER MEASUREMENT

# 7.1 Standard Applicable

According to §15.407(a)

- 1. For the band 5.15-5.25 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 50 mW (17dBm) or 4 dBm + 10log B.
- 2. For the band 5.25-5.35 GHz and 5.47-5.725GMHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10log B.
- 3. For the band 5.725-5.825 GHz, the maximum conducted power over the frequency of operation shall not exceed the lesser of 1W (30dBm) or 17 dBm + 10log B.

## According to RSS-210 A9.2

- 1. For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- 2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or
  - 17 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where  $\theta$  is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for  $0o \le \theta < 8o$
- (ii) -13 0.716 ( $\theta$ -8) dB(W/MHz) for  $80 \le \theta < 400$
- (iii)  $-35.9 1.22 (\theta-40) dB(W/MHz)$  for  $40o \le \theta \le 45o$
- (iv) -42 dB(W/MHz) for  $\theta > 45$ o

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3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or

17 + 10 log10 B, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

where B is the 26dB emission bandwidth in MHz.

#### 7.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Channel Power Function, RBW=1MHz, VBW=3MHz, ACP Bandwidth =26dB Emission Bandwidth)
- Record the max. reading. 3.
- Repeat above procedures until all frequency measured were complete. 4.

7.3 Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012		
Spectrum Analyzer	Agilent	E7405A	US41160416	01/25/2011	01/24/2012		
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012		
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	N/A	N/A		
Attenuator	Mini-Circuit	BW-S6W5	N/A	07/05/2010	07/04/2011		

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#### 7.4 Measurement Result

Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBM)
802.11a	36	5180	A	6	16.50
802.11a	40	5200	A	6	16.31
802.11a	48	5240	A	6	16.27
802.11a	52	5260	A	6	16.25
802.11a	56	5280	A	6	16.42
802.11a	64	5320	A	6	16.24
	36		В	6	
802.11a		5180			16.31 16.22
802.11a	40	5200	В	6	
802.11a	48	5240	B	6	16.21
802.11a	52	5260	В	6	16.18
802.11a	56	5280	B	6	16.32
802.11a	64	5320	В	6	16.19
000 44 (000 411 )	00	5400		LITO	10.01
802.11n(20MHz)	36	5180	A	HT0	16.31
802.11n(20MHz)	40	5200	Α	HT0	16.52
802.11n(20MHz)	48	5240	Α	HT0	16.24
802.11n(20MHz)	52	5260	Α	HT0	16.42
802.11n(20MHz)	56	5280	Α	HT0	16.32
802.11n(20MHz)	64	5320	Α	HT0	16.28
802.11n(20MHz)	36	5180	В	HT0	16.24
802.11n(20MHz)	40	5200	В	HT0	16.32
802.11n(20MHz)	48	5240	В	HT0	16.17
802.11n(20MHz)	52	5260	В	HT0	16.36
802.11n(20MHz)	56	5280	В	HT0	16.31
802.11n(20MHz)	64	5320	В	HT0	16.22
802.11a	100	5500	Α	6	16.31
802.11a	120	5600	Α	6	16.29
802.11a	140	5700	Α	6	16.41
802.11a	100	5500	В	6	16.46
802.11a	120	5600	В	6	16.52
802.11a	140	5700	В	6	16.41
802.11n(20MHz)	100	5500	Α	HT0	16.61
802.11n(20MHz)	120	5600	А	HT0	16.31
802.11n(20MHz)	140	5700	Α	HT0	16.51
802.11n(20MHz)	100	5500	В	HT0	16.58
802.11n(20MHz)	120	5600	В	HT0	16.24
802.11n(20MHz)	140	5700	В	HT0	16.43

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Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBM)
802.11n(40MHz)	38(F)	5190	Α	HT0	16.60
802.11n(40MHz)	46(F)	5230	Α	HT0	16.38
802.11n(40MHz)	54(F)	5270	Α	HT0	16.36
802.11n(40MHz)	62(F)	5310	Α	HT0	16.47
802.11n(40MHz)	38(F)	5190	В	HT0	16.31
802.11n(40MHz)	46(F)	5230	В	HT0	16.50
802.11n(40MHz)	54(F)	5270	В	HT0	16.51
802.11n(40MHz)	62(F)	5310	В	HT0	16.59
802.11n(40MHz)	102(F)	5510	Α	HT0	16.58
802.11n(40MHz)	118(F)	5590	Α	HT0	16.46
802.11n(40MHz)	134(F)	5670	Α	HT0	16.30
802.11n(40MHz)	102(F)	5510	В	HT0	16.53
802.11n(40MHz)	118(F)	5590	В	HT0	16.28
802.11n(40MHz)	134(F)	5670	В	HT0	16.37

Mode	Channel	Frequency(MHz)	Chain	Data Rate(Mbps)	Average Power (dBM)
802.11n(20MHz)	36	5180	A+B	HT16	16.64
802.11n(20MHz)	40	5200	A+B	HT16	16.67
802.11n(20MHz)	48	5240	A+B	HT16	17.03
802.11n(20MHz)	52	5260	A+B	HT16	16.82
802.11n(20MHz)	56	5280	A+B	HT16	16.83
802.11n(20MHz)	64	5320	A+B	HT16	16.72
			A+B		
802.11n(40MHz)	38(F)	5190	A+B	HT0	16.71
802.11n(40MHz)	46(F)	5230	A+B	HT0	16.68
802.11n(40MHz)	54(F)	5270	A+B	HT0	16.86
802.11n(40MHz)	62(F)	5310	A+B	HT0	16.87
			A+B		
802.11n(20MHz)	100	5500	A+B	HT0	16.78
802.11n(20MHz)	120	5600	A+B	HT0	16.63
802.11n(20MHz)	140	5700	A+B	HT0	16.74
			A+B		
802.11n(40MHz)	102(F)	5510	A+B	HT0	16.65
802.11n(40MHz)	118(F)	5590	A+B	HT0	16.68
802.11n(40MHz)	134(F)	5670	A+B	HT0	16.66

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#### 26dB and 99%EMISSION BANDWIDTH MEASUREMENT

## **6.1 Standard Applicable**

According to §15.407(a). No Limit required.

According to RSS 210 A9.2(1), No Limit required

RSS-Gen §4.4.1, the transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual.

The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded.

#### **6.2** Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW=100KHz, VBW=3\* RBW, Span=50MHz, Sweep=auto
- 4. Mark the peak frequency and –26dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured were complete.

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# **6.3** Measurement Equipment Used:

ote miestiei	0.0 Medsurement Equipment obea.					
Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012	
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012	
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011	
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012	
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011	
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011	
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011	



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#### **6.4** Measurement Result

UNII, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	20.92	13.20
5220	20.32	13.08
5240	19.85	12.98

UNII, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	20.08	13.03
5300	19.27	12.85
5320	19.56	12.91

UNII, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	19.43	12.88
5580	19.47	12.89
5700	19.91	12.99

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## UNII HT20, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5180	20.40	13.10
5220	20.63	13.14
5240	20.58	13.13

## UNII HT20, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5260	20.53	13.12
5300	20.39	13.09
5320	20.23	13.06

## UNII HT20, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5500	20.33	13.08
5580	20.13	13.04
5700	20.32	13.08

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## UNII HT40, 5150~5250 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5190	40.16	16.04
5230	40.35	16.06

## UNII HT40, 5250~5350 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5270	39.20	15.93
5310	39.09	15.92

## UNII HT40, 5470~5725 MHz

Frequency (MHz)	26dB Bandwidth (B) (MHz)	10 Log (B) (dB)
5510	40.02	16.02
5590	39.19	15.93
5670	39.64	15.98

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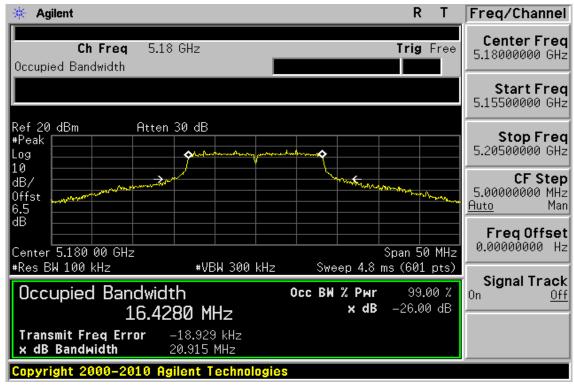
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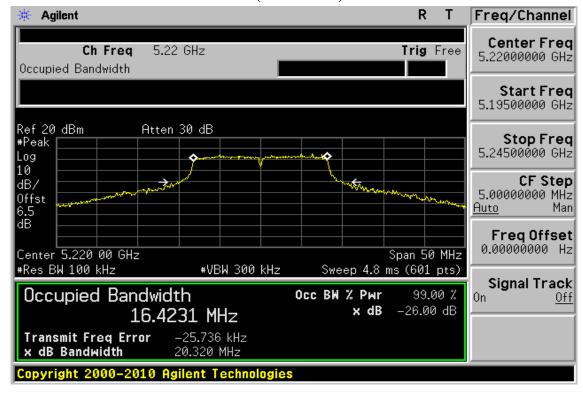
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# UNII, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5180MHz)



# 26dB Band Width Test Data CH-Mid (5220MHz)



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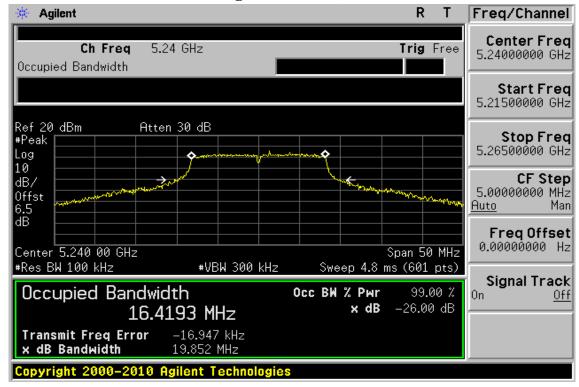
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# 26dB Band Width Test Data CH-High (5240MHz)



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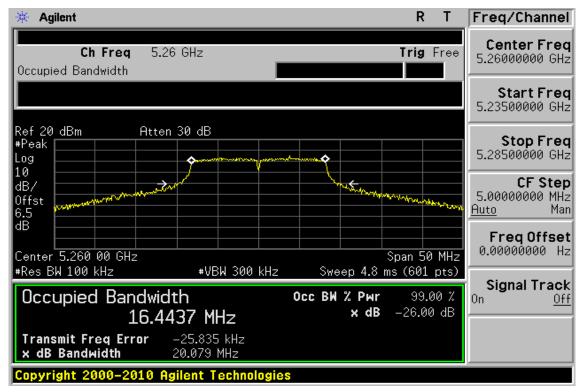
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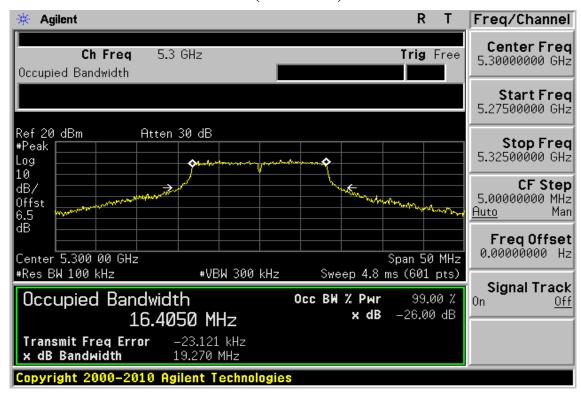
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# UNII, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260MHz)



### 26dB Band Width Test Data CH-Mid (5300MHz)



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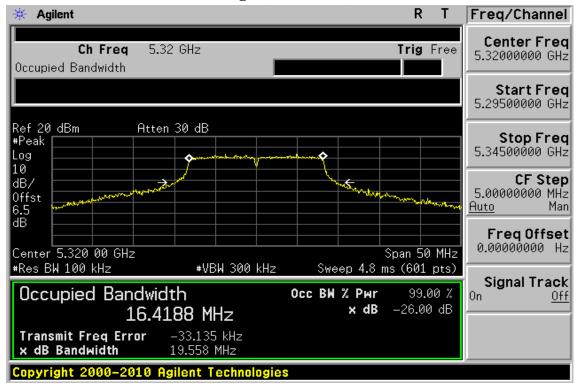
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# 26dB Band Width Test Data CH-High (5320MHz)



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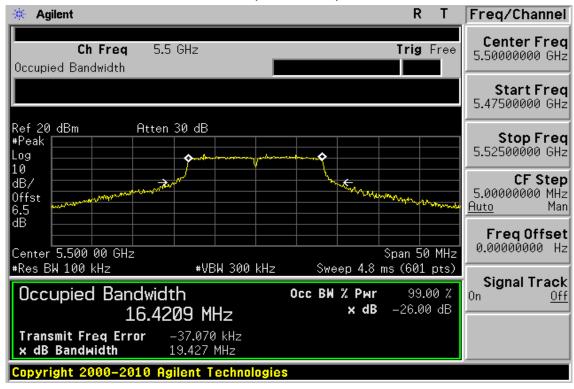
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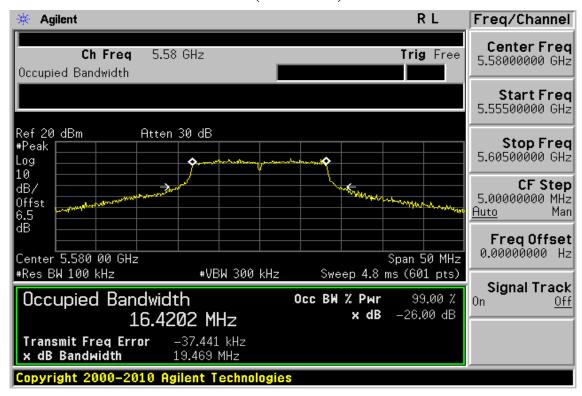
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# UNII, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500MHz)



# 26dB Band Width Test Data CH-Mid (5580MHz)



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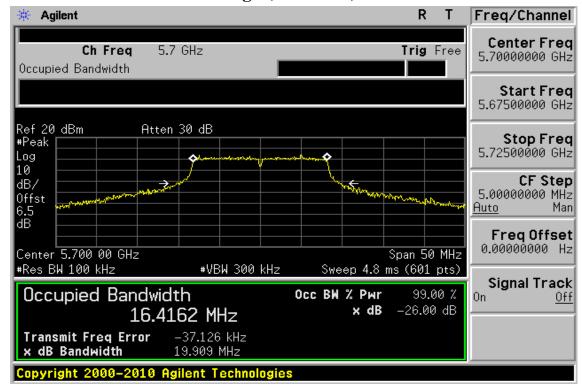
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# 26dB Band Width Test Data CH-High (5700MHz)



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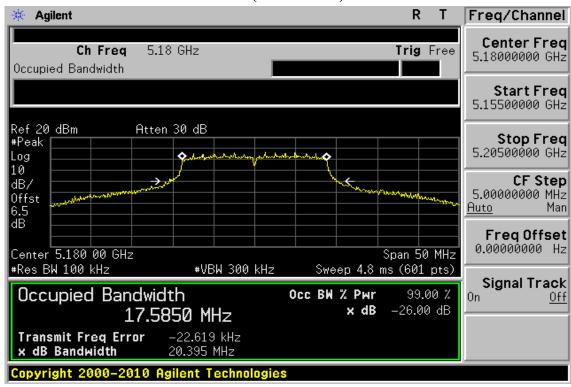
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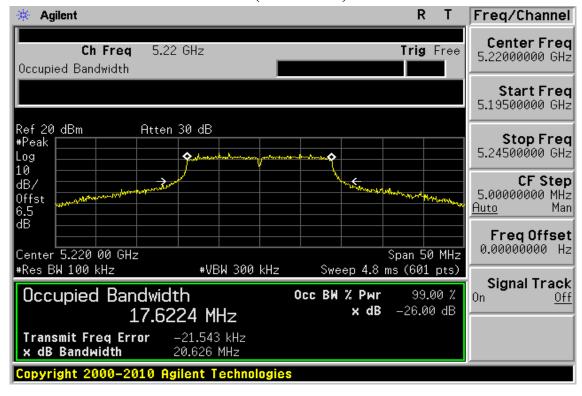
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# UNII, HT 20, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5180 MHz)



## 26dB Band Width Test Data CH-Mid (5220 MHz)



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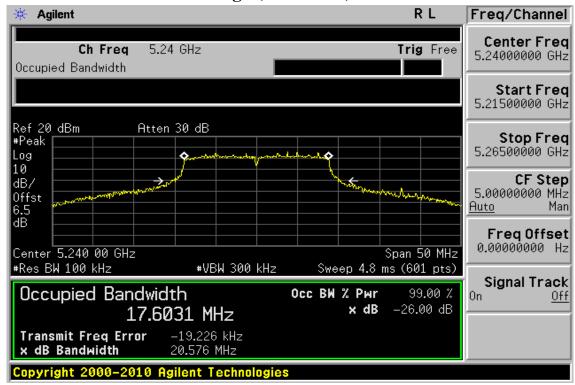
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# 26dB Band Width Test Data CH-High (5240 MHz)



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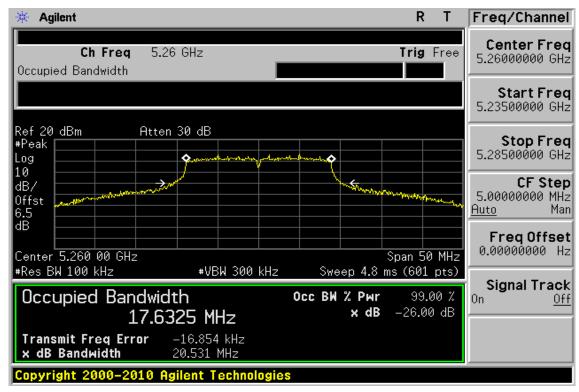
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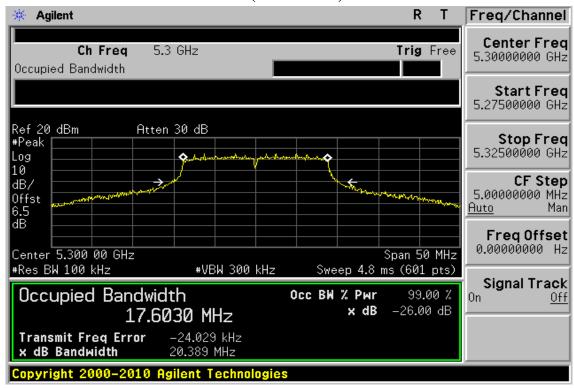
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# UNII, HT 20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



## 26dB Band Width Test Data CH-Mid (5300 MHz)



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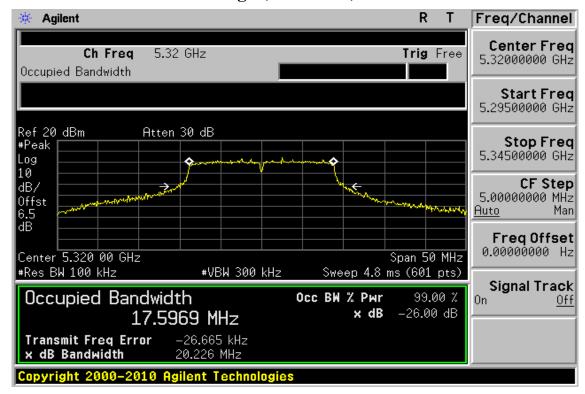
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# 26dB Band Width Test Data CH-High (5320 MHz)



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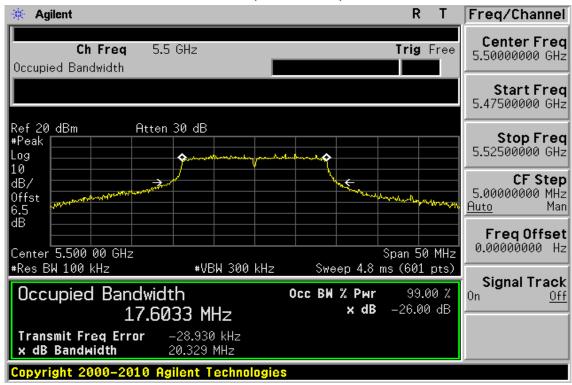
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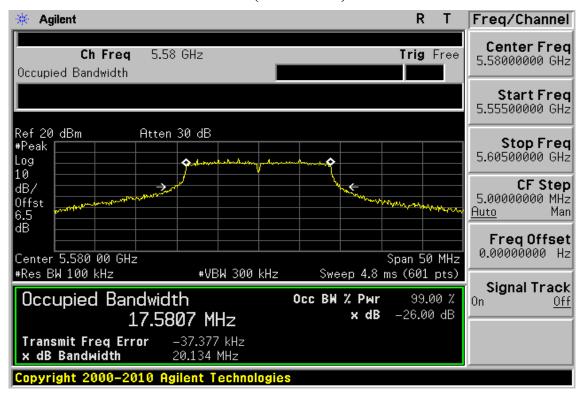
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# UNII, HT 20, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500 MHz)



# 26dB Band Width Test Data CH-Mid (5580 MHz)



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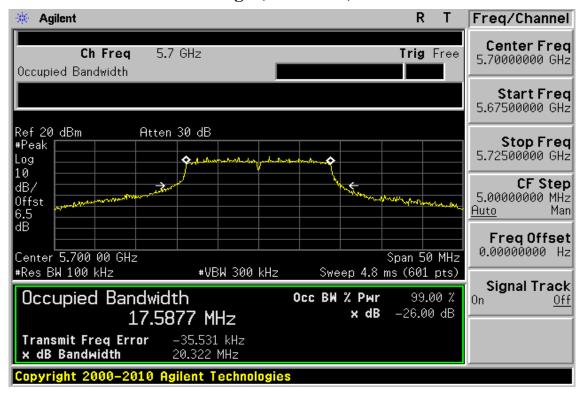
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# 26dB Band Width Test Data CH-High (5700 MHz)



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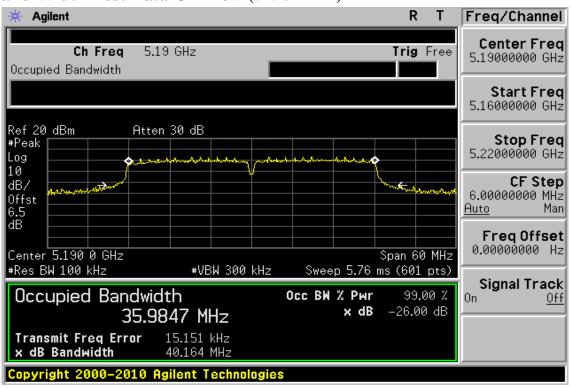
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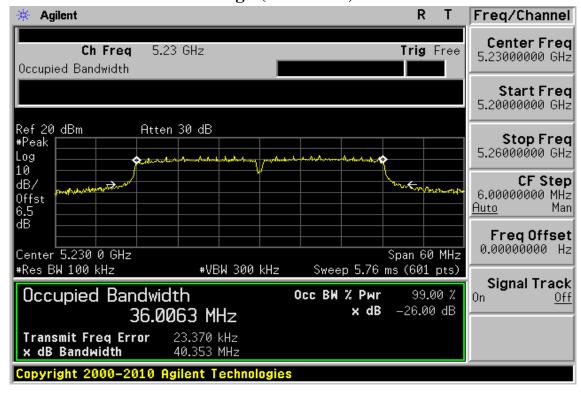
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# UNII, HT 40, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5190 MHz)



# 26dB Band Width Test Data CH-High (5230 MHz)



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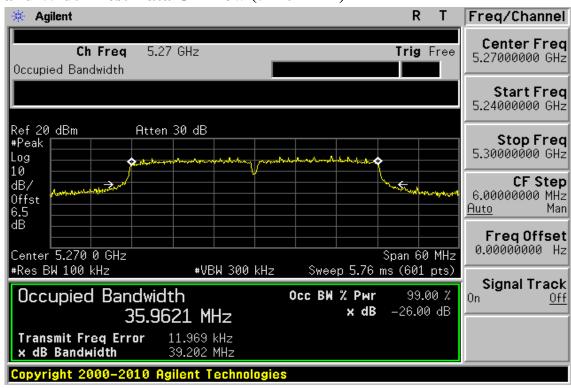
f (886-2) 2298-0488



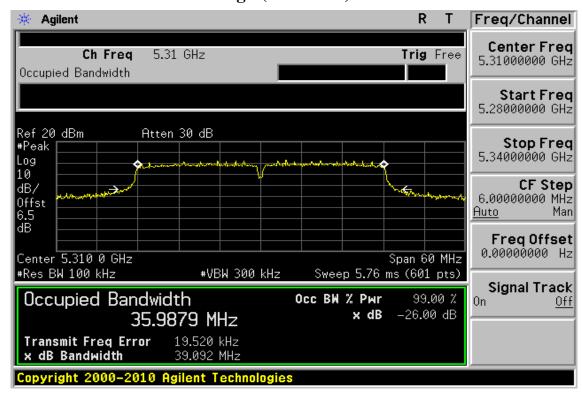
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# UNII, HT 40, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5270 MHz)



# 26dB Band Width Test Data CH-High (5310MHz)



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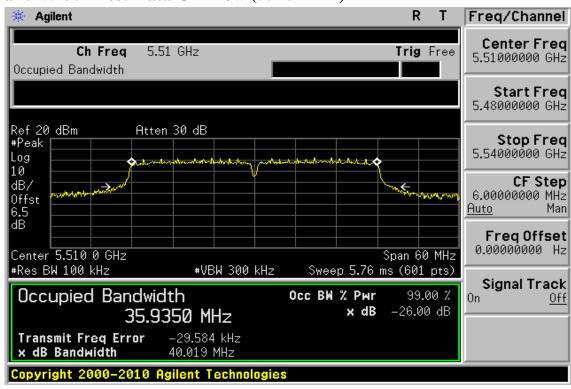
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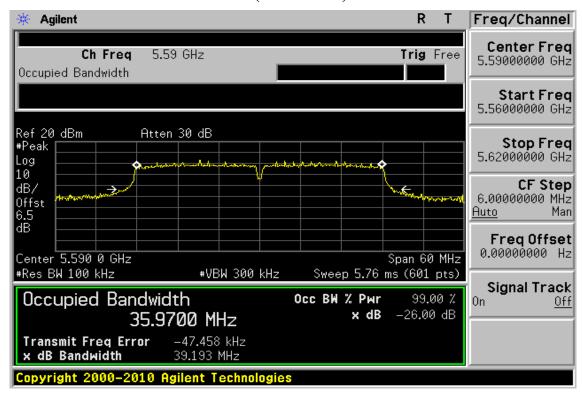
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# UNII, HT 40, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5510 MHz)



# 26dB Band Width Test Data CH-Mid (5590 MHz)



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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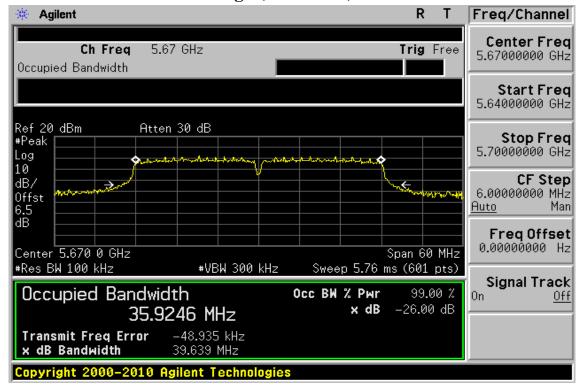
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# 26dB Band Width Test Data CH-High (5670 MHz)



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#### PEAK POWER SPECTRAL DENSITY

# 7.1 Standard Applicable

According to §15.407(a)

- 1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band.
- 2. For the band 5.25-5.35 GHz and 5.47-5.725GMHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
- 3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

Where B is the -26dBc emission bandwidth in MHz. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### According to RSS-210 A9.2

- For the band 5150-5250 MHz, the maximum equivalent isotropically radiated power (e.i.r.p.) shall not exceed 200 mW or 10 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.
- 2. For the bands 5250-5350 MHz and 5470-5725 MHz, the maximum conducted output power shall not exceed 250 mW or 11 + 10 log10 B, dBm, whichever power is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or

17 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

In addition, devices with maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

In addition to the above requirements, devices operating in the band 5250-5350 MHz with maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. elevation mask where θ is the angle above the local horizontal plane (of the earth) as shown below:

- (i) -13 dB(W/MHz) for  $0o \le \theta \le 8o$
- (ii) -13 0.716 ( $\theta$ -8) dB(W/MHz) for  $80 \le \theta < 400$
- (iii) -35.9 1.22 ( $\theta$ -40) dB(W/MHz) for  $40o \le \theta \le 45o$
- (iv) -42 dB(W/MHz) for  $\theta > 450$

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3. For the band 5725-5825 MHz, the maximum conducted output power shall not exceed 1.0 W or

17 + 10 log10 B, dBm, whichever power is less. The power spectral density shall not exceed 17 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 4.0 W or 23 + 10 log10 B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

Fixed point-to-point systems for this band are permitted to have an e.i.r.p. greater than 4 W, provided that the higher e.i.r.p. is achieved by employing higher gain antennas, but not higher transmitter output powers. Point-to-multipoint systems, omni-directional applications and multiple co-located transmitters transmitting the same information are prohibited from exceeding 4 W e.i.r.p. However, remote stations of point-to-multipoint systems shall be permitted to operate at greater than 4 W e.i.r.p, under the same conditions as for point-to-point systems.

B is the 99% emission bandwidth in MHz.

#### 7.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port 2. to Spectrum.
- Set RBW=1MHz, VBW=3MHz, Span=50MHz (Base Mode), Sweep time = Auto, traces 100 sweeps of video averaging.
- 4. Record the max. reading.
- 5. Repeat above procedures until all frequency measured were complete.

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# 7.3 Measurement Equipment Used:

Conducted Emission Test Site							
<b>EQUIPMENT</b>	MFR	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012		
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012		
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011		
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012		
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011		
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011		
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011		
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011		

#### 7.4 Measurement Result

Reference to the measurement results obtained from the FCC modular report: INTEL-090602F & IC modular report: INTEL-090602IC

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#### PEAK EXCURSION MEASUREMENT

# 8.1 Standard Applicable

15.407(a)(6) The ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the peak transmit power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

#### **8.2** Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
- 3. Trace A, Set RBW=1MHz, VBW = 3MHz, Span = 26dBc, Max. hold.
- 4. Trace B, Set RBW=1MHz, VBW = 30KHz, Span = 26dBc, Max. hold...
- 5. Delta Mark trace A center frequency and trace B center frequency.
- 6. Repeat above procedures until all frequency measured were complete.

# 8.3 Measurement Equipment Used:

Conducted Emission Test Site							
EQUIPMENT MFR		MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012		
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012		
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011		
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012		
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011		
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011		
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011		
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011		

### **8.4** Test Results:

Reference to the measurement results obtained from the FCC modular report: INTEL-090602F & IC modular report: INTEL-090602IC

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#### 9. UNDESIRABLE EMISSION - CONDUCTED MEASUREMENT

## 9.1 Standard Applicable

According to §15.407(b),

- (b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
  - For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
  - For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
  - For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
  - For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
  - The above emission measurements shall be performed using a minimum resolution bandwidth of (5) 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
  - Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
  - The provisions of Section 15.205 of this part apply to intentional radiators operating under this **(7)** section.
  - When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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#### 9.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode. 1.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum.
- Set Spectrum RBW=1MHz, VBW = 1MHz for peak measurement and 10Hz for average meas-3. urement.
- Set Spectrum at lower/upper band edge and the restricted band adjacent to the lower/upper edge of the authorized band, with the transmitter set to the lowest/highest channel.
- Set Spectrum over the 30MHz to 40GHz range with the transmitter set to the lowest, middle, 5. and highest channels.

Conducted RF measurements of the transmitter output were made at the band edges and the adjacent restricted bands.

Also, conducted RF measurements of the transmitter output over the 30 MHz to 40 GHz band were made in order to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

9.3 Measurement Equipment Used:

The Measurement Equipment open								
Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2010	04/18/2012			
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/25/2011	01/24/2012			
Spectrum Analyzer	R&S	FSP 40	100034	11/09/2010	11/10/2011			
DC Block	Agilent	BLK-18	155452	07/05/2010	07/04/2011			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2011	01/04/2012			
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2010	07/04/2011			
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2010	07/04/2011			
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2010	07/04/2011			
Splitter	Agilent	11636B	N/A	07/05/2010	07/04/2011			

#### 9.4 Measurement Results:

Reference to the measurement results obtained from the FCC modular report: INTEL-090602F & IC modular report: INTEL-090602IC

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#### 10. UNDESIRABLE EMISSION - RADICTED MEASUREMENT

# 10.1 Standard Applicable

# According to §15.407(b),

- (b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
  - For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.
  - For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5.25-5.35 GHz band that generate emissions in the 5.15-5.25 GHz band must meet all applicable technical requirements for operation in the 5.15-5.25 GHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5.15-5.25 GHz band.
  - For transmitters operating in the 5.47-5.725 GHz band: all emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.
  - For transmitters operating in the 5.725-5.825 GHz band: all emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an EIRP of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an EIRP of -27 dBm/MHz.
  - The above emission measurements shall be performed using a minimum resolution bandwidth of (5) 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
  - Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
  - The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
  - When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

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#### According to RSS-210 A9.3

- For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.
- For transmitters operating in the band 5250-5350 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Devices operating in the band 5250-5350 MHz that generate emissions in the band 5150-5250 MHz shall not exceed an out-of-band emission limit of -27 dBm/MHz e.i.r.p. in the band 5150-5250 MHz in order to operate indoor/outdoor, or alternatively shall comply with the spectral power density for operation within the band 5150-5250 MHz and shall be labelled "for indoor use only".
- For transmitters operating in the band 5470-5725 MHz, all emissions outside that band shall not exceed -27 dBm/MHz e.i.r.p.
- For transmitters operating in the band 5725-5825 MHz, all emissions within the frequency range from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p. For frequencies more than 10 MHz above or below the band edges, emissions shall not exceed -27 dBm/MHz.



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#### §15.205- RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41	322 - 335.4		

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements

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<sup>&</sup>lt;sup>2</sup> Above 38.6



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# §15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

#### FCC PART 15.209

1001111(110,20)						
MEASURING DISTANCE OF 3 METER						
FREQUENCY RANGE FIELD STRENGTH FIELD STRENGTH						
(MHz)	(Microvolts/m)	(dBuV/m)				
30-88	100	40				
88-216	150	43.5				
216-960	200	46				
Above 960	500	54				

# 10.2 EUT Setup

- 1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4-1992.
- 2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
- 4. The spacing between the peripherals was 10 centimeters.
- 5. External I/O cables were draped along the edge of the test table and bundle when necessary.
- 6. The host PC system was connected with 120Vac/60Hz power source.

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#### 10.3 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance. 4.
- And also, each emission was to be maximized by changing the polarization of receiving 5. antenna both horizontal and vertical.
- Repeat above procedures until all frequency measured were complete. 6.

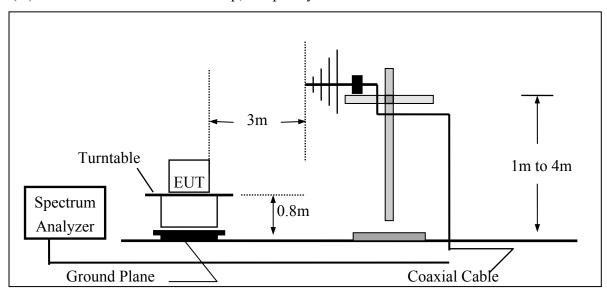


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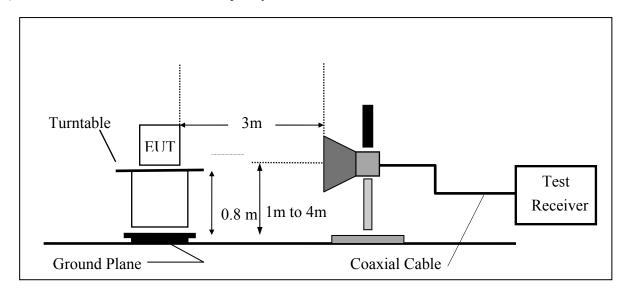
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# 10.4 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



## (B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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# 10.5 Measurement Equipment Used:

966 Chamber								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.			
ТҮРЕ		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	R&S	FSP 40	100034	02/12/2011	02/11/2012			
Loop antenna	MESSTEC	FLA30	03/10086	07/08/2009	07/07/2011			
Bilog Antenna	Antenna SCHWAZBECK		3158	11/29/2009	11/28/2011			
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-673	03/09/2011	03/08/2012			
Pre-Amplifier	Agilent	8447D	1937A02834	11/28/2010	11/28/2011			
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2011	01/04/2012			
Turn Table	HD	DT420	N/A	N.C.R	N.C.R			
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R			
Controller	HD	HD100	N/A	N.C.R	N.C.R			
Low Loss Cable	Low Loss Cable HUBER+SUHNER		10m	01/05/2011	01/04/2012			
Low Loss Cable	Low Loss Cable HUBER+SUHNER		3m	01/05/2011	01/04/2012			
3m Site	SGS	966 chamber	N/A	09/06/2010	09/05/2011			

# 10.6 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

### 10.7 Measurement Result

Refer to attach tabular data sheets.

#### **NOTE:**

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII, 5150~5250 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5180MHz Test By Bondi Temperature Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	<b>Actual FS</b>	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	48.82	-13.97	34.85	43.50	-8.65
228.85	V	Peak	41.33	-14.56	26.77	46.00	-19.23
301.60	V	Peak	44.75	-12.41	32.34	46.00	-13.66
388.90	V	Peak	50.44	-11.05	39.39	46.00	-6.61
425.76	V	Peak	52.40	-10.33	42.07	46.00	-3.93
532.46	V	Peak	47.77	-8.48	39.29	46.00	-6.71
177.44	Н	Peak	42.23	-14.09	28.14	43.50	-15.36
243.40	H	Peak	45.33	-13.99	31.34	46.00	-14.66
267.65	Н	Peak	49.60	-13.30	36.30	46.00	-9.70
396.66	Н	Peak	46.46	-10.94	35.52	46.00	-10.48
418.00	Н	Peak	44.35	-10.54	33.81	46.00	-12.19
652.74	Н	Peak	36.25	-5.97	30.28	46.00	-15.72

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid Operation Mode Fundamental Frequency 5220MHz

Temperature 25 65 % Humidity

Test Date	Mar. 22, 2011
Test By	Bondi
Pol	Ver./Hor

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	<b>Actual FS</b>	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	46.85	-13.97	32.88	43.50	-10.62
245.34	V	Peak	40.90	-13.96	26.94	46.00	-19.06
299.66	V	Peak	45.19	-12.45	32.74	46.00	-13.26
396.66	V	Peak	50.42	-10.94	39.48	46.00	-6.52
425.76	V	Peak	53.36	-10.33	43.03	46.00	-2.97
532.46	V	Peak	50.21	-8.48	41.73	46.00	-4.27
154.16	Н	Peak	39.31	-12.18	27.13	43.50	-16.37
248.25	Н	Peak	46.11	-13.91	32.20	46.00	-13.80
272.50	Н	Peak	50.37	-13.12	37.25	46.00	-8.75
398.60	Н	Peak	48.32	-10.93	37.39	46.00	-8.61
427.70	Н	Peak	43.22	-10.29	32.93	46.00	-13.07
534.40	Н	Peak	39.49	-8.44	31.05	46.00	-14.95

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High Fundamental Frequency 5240MHz

Temperature 25 65 % Humidity

Test Date	Mar. 22, 2011
Test By	Bondi
Pol	Ver/Hor

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
127.00	V	Peak	48.12	-14.09	34.03	43.50	-9.47
248.25	V	Peak	41.13	-13.91	27.22	46.00	-18.78
299.66	V	Peak	45.53	-12.45	33.08	46.00	-12.92
390.84	V	Peak	50.92	-11.03	39.89	46.00	-6.11
425.76	V	Peak	52.72	-10.33	42.39	46.00	-3.61
532.46	V	Peak	48.16	-8.48	39.68	46.00	-6.32
136.70	Н	Peak	40.66	-13.26	27.40	43.50	-16.10
248.25	Н	Peak	45.24	-13.91	31.33	46.00	-14.67
284.14	Н	Peak	49.69	-12.86	36.83	46.00	-9.17
396.66	Н	Peak	45.65	-10.94	34.71	46.00	-11.29
427.70	Н	Peak	43.03	-10.29	32.74	46.00	-13.26
652.74	Н	Peak	37.63	-5.97	31.66	46.00	-14.34

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT20, 5150~5250 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5180MHz Test By Bondi **Temperature** Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
131.85	V	Peak	47.59	-13.72	33.87	43.50	-9.63
243.40	V	Peak	43.46	-13.99	29.47	46.00	-16.53
299.66	V	Peak	45.72	-12.45	33.27	46.00	-12.73
396.66	V	Peak	50.70	-10.94	39.76	46.00	-6.24
425.76	V	Peak	52.29	-10.33	41.96	46.00	-4.04
532.46	V	Peak	47.00	-8.48	38.52	46.00	-7.48
136.70	Н	Peak	42.51	-13.26	29.25	43.50	-14.25
248.25	H	Peak	47.32	-13.91	33.41	46.00	-12.59
270.56	Н	Peak	50.41	-13.17	37.24	46.00	-8.76
393.75	Н	Peak	46.62	-11.00	35.62	46.00	-10.38
425.76	Н	Peak	42.87	-10.33	32.54	46.00	-13.46
532.46	Н	Peak	40.03	-8.48	31.55	46.00	-14.45

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid Operation Mode Fundamental Frequency 5220MHz

**Temperature** 25 65 % Humidity

**Test Date** Mar. 22, 2011 Test By Bondi Pol Ver./Hor

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	<b>Actual FS</b>	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	46.88	-13.41	33.47	43.50	-10.03
245.34	V	Peak	42.88	-13.96	28.92	46.00	-17.08
301.60	V	Peak	44.92	-12.41	32.51	46.00	-13.49
388.90	V	Peak	49.21	-11.05	38.16	46.00	-7.84
427.70	V	Peak	52.59	-10.29	42.30	46.00	-3.70
532.46	V	Peak	47.21	-8.48	38.73	46.00	-7.27
151.25	H	Peak	39.69	-12.20	27.49	43.50	-16.01
243.40	Н	Peak	46.35	-13.99	32.36	46.00	-13.64
284.14	Н	Peak	48.86	-12.86	36.00	46.00	-10.00
393.75	Н	Peak	47.56	-11.00	36.56	46.00	-9.44
427.70	Н	Peak	43.09	-10.29	32.80	46.00	-13.20
652.74	Н	Peak	37.47	-5.97	31.50	46.00	-14.50

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH High Operation Mode Fundamental Frequency 5240MHz

**Temperature** 25 65 % Humidity

Test Date	Mar. 22, 2011
Test By	Bondi
$\mathbf{p}_{\mathbf{o}1}$	Ver /Her

Ant.Pol.	Detector Mode	Reading	Factor	<b>Actual FS</b>	Limit3m	Safe Mar- gin
H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	Peak	47.42	-13.97	33.45	43.50	-10.05
V	Peak	41.86	-14.56	27.30	46.00	-18.70
V	Peak	44.01	-12.45	31.56	46.00	-14.44
V	Peak	51.08	-10.94	40.14	46.00	-5.86
V	Peak	52.32	-10.33	41.99	46.00	-4.01
V	Peak	47.98	-8.48	39.50	46.00	-6.50
Н	Peak	39.79	-12.00	27.79	43.50	-15.71
Н	Peak	45.64	-13.88	31.76	46.00	-14.24
Н	Peak	49.75	-13.30	36.45	46.00	-9.55
Н	Peak	47.16	-11.00	36.16	46.00	-9.84
Н	Peak	42.99	-10.29	32.70	46.00	-13.30
Н	Peak	40.90	-8.48	32.42	46.00	-13.58
	H/V  V  V  V  V  H  H  H  H	Mode H/V (PK/QP)  V Peak V Peak V Peak V Peak V Peak V Peak H Peak	Mode         Reading           H/V         (PK/QP)         (dBuV)           V         Peak         47.42           V         Peak         41.86           V         Peak         44.01           V         Peak         51.08           V         Peak         52.32           V         Peak         47.98           H         Peak         45.64           H         Peak         49.75           H         Peak         47.16           H         Peak         42.99	Mode         Reading         Factor           H/V         (PK/QP)         (dBuV)         (dB)           V         Peak         47.42         -13.97           V         Peak         41.86         -14.56           V         Peak         44.01         -12.45           V         Peak         51.08         -10.94           V         Peak         52.32         -10.33           V         Peak         47.98         -8.48           H         Peak         45.64         -13.88           H         Peak         49.75         -13.30           H         Peak         47.16         -11.00           H         Peak         42.99         -10.29	Ant.Pol.ModeReadingFactorActual FSH/V(PK/QP)(dBuV)(dB)(dBuV/m)VPeak47.42-13.9733.45VPeak41.86-14.5627.30VPeak44.01-12.4531.56VPeak51.08-10.9440.14VPeak52.32-10.3341.99VPeak47.98-8.4839.50HPeak45.64-13.8831.76HPeak49.75-13.3036.45HPeak47.16-11.0036.16HPeak42.99-10.2932.70	Mode         Reading         Factor         Actual FS         Limitsm           H/V         (PK/QP)         (dBuV)         (dB)         (dBuV/m)         (dBuV/m)           V         Peak         47.42         -13.97         33.45         43.50           V         Peak         41.86         -14.56         27.30         46.00           V         Peak         44.01         -12.45         31.56         46.00           V         Peak         51.08         -10.94         40.14         46.00           V         Peak         52.32         -10.33         41.99         46.00           V         Peak         47.98         -8.48         39.50         46.00           H         Peak         45.64         -13.88         31.76         46.00           H         Peak         49.75         -13.30         36.45         46.00           H         Peak         47.16         -11.00         36.16         46.00           H         Peak         42.99         -10.29         32.70         46.00

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40, 5150~5250 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5190MHz Test By Bondi Temperature Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
131.85	V	Peak	48.13	-13.72	34.41	43.50	-9.09
228.85	V	Peak	41.10	-14.56	26.54	46.00	-19.46
301.60	V	Peak	42.15	-12.41	29.74	46.00	-16.26
396.66	V	Peak	51.71	-10.94	40.77	46.00	-5.23
425.76	V	Peak	52.60	-10.33	42.27	46.00	-3.73
532.46	V	Peak	47.54	-8.48	39.06	46.00	-6.94
177.44	Н	Peak	42.09	-14.09	28.00	43.50	-15.50
206.54	Н	Peak	46.70	-15.86	30.84	43.50	-12.66
272.50	Н	Peak	49.82	-13.12	36.70	46.00	-9.30
390.84	Н	Peak	46.89	-11.03	35.86	46.00	-10.14
422.85	Н	Peak	42.71	-10.42	32.29	46.00	-13.71
534.40	Н	Peak	40.82	-8.44	32.38	46.00	-13.62

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode TX CH High Fundamental Frequency 5230MHz

Temperature 25 65 % Humidity

Test Date	Mar. 22, 2011
Test By	Bondi
Pol	Ver./Hor

Ant.Pol.	Detector Mode	Reading	Factor	<b>Actual FS</b>	Limit3m	Safe Mar- gin
H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
V	Peak	43.26	-13.41	29.85	43.50	-13.65
V	Peak	41.78	-14.56	27.22	46.00	-18.78
V	Peak	42.76	-12.45	30.31	46.00	-15.69
V	Peak	48.80	-10.42	38.38	46.00	-7.62
V	Peak	39.83	-9.02	30.81	46.00	-15.19
V	Peak	38.69	-6.12	32.57	46.00	-13.43
Н	Peak	39.98	-12.51	27.47	43.50	-16.03
Н	Peak	46.78	-15.86	30.92	43.50	-12.58
Н	Peak	48.73	-12.86	35.87	46.00	-10.13
Н	Peak	43.66	-10.29	33.37	46.00	-12.63
Н	Peak	36.15	-8.81	27.34	46.00	-18.66
Н	Peak	35.76	-3.01	32.75	46.00	-13.25
	H/V  V  V  V  V  H  H  H  H	Mode H/V (PK/QP)  V Peak V Peak V Peak V Peak V Peak V Peak H Peak	Mode         Reading           H/V         (PK/QP)         (dBuV)           V         Peak         43.26           V         Peak         41.78           V         Peak         42.76           V         Peak         48.80           V         Peak         39.83           V         Peak         38.69           H         Peak         46.78           H         Peak         48.73           H         Peak         43.66           H         Peak         36.15	Mode         Reading         Factor           H/V         (PK/QP)         (dBuV)         (dB)           V         Peak         43.26         -13.41           V         Peak         41.78         -14.56           V         Peak         42.76         -12.45           V         Peak         48.80         -10.42           V         Peak         39.83         -9.02           V         Peak         38.69         -6.12           H         Peak         46.78         -15.86           H         Peak         48.73         -12.86           H         Peak         43.66         -10.29           H         Peak         36.15         -8.81	Ant.Pol. H/VMode (PK/QP)Reading (dBuV)Factor (dB)Actual FSVPeak43.26-13.4129.85VPeak41.78-14.5627.22VPeak42.76-12.4530.31VPeak48.80-10.4238.38VPeak39.83-9.0230.81VPeak38.69-6.1232.57HPeak46.78-15.8630.92HPeak48.73-12.8635.87HPeak43.66-10.2933.37HPeak36.15-8.8127.34	Ant.Pol.         Mode         Reading         Factor         Actual FS         Limitsm           H/V         (PK/QP)         (dBuV)         (dB)         (dBuV/m)         (dBuV/m)           V         Peak         43.26         -13.41         29.85         43.50           V         Peak         41.78         -14.56         27.22         46.00           V         Peak         42.76         -12.45         30.31         46.00           V         Peak         48.80         -10.42         38.38         46.00           V         Peak         39.83         -9.02         30.81         46.00           V         Peak         38.69         -6.12         32.57         46.00           H         Peak         46.78         -15.86         30.92         43.50           H         Peak         48.73         -12.86         35.87         46.00           H         Peak         43.66         -10.29         33.37         46.00           H         Peak         43.66         -10.29         33.37         46.00           H         Peak         36.15         -8.81         27.34         46.00

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII, 5250MHz-5350MHz

TX CH Low Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5260MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	48.21	-13.97	34.24	43.50	-9.26
243.40	V	Peak	40.75	-13.99	26.76	46.00	-19.24
299.66	V	Peak	44.52	-12.45	32.07	46.00	-13.93
393.75	V	Peak	49.80	-11.00	38.80	46.00	-7.20
422.85	V	Peak	52.67	-10.42	42.25	46.00	-3.75
534.40	V	Peak	49.87	-8.44	41.43	46.00	-4.57
154.16	Н	Peak	39.67	-12.18	27.49	43.50	-16.01
250.19	Н	Peak	45.31	-13.88	31.43	46.00	-14.57
270.56	Н	Peak	49.00	-13.17	35.83	46.00	-10.17
396.66	Н	Peak	46.21	-10.94	35.27	46.00	-10.73
427.70	Н	Peak	42.19	-10.29	31.90	46.00	-14.10
534.40	Н	Peak	41.42	-8.44	32.98	46.00	-13.02

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5300MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	46.84	-13.97	32.87	43.50	-10.63
238.55	V	Peak	40.93	-14.12	26.81	46.00	-19.19
299.66	V	Peak	44.58	-12.45	32.13	46.00	-13.87
390.84	V	Peak	50.95	-11.03	39.92	46.00	-6.08
422.85	V	Peak	52.57	-10.42	42.15	46.00	-3.85
534.40	V	Peak	45.51	-8.44	37.07	46.00	-8.93
151.25	Н	Peak	39.87	-12.20	27.67	43.50	-15.83
248.25	Н	Peak	45.62	-13.91	31.71	46.00	-14.29
267.65	Н	Peak	49.89	-13.30	36.59	46.00	-9.41
396.66	Н	Peak	46.83	-10.94	35.89	46.00	-10.11
425.76	Н	Peak	42.80	-10.33	32.47	46.00	-13.53
534.40	Н	Peak	41.22	-8.44	32.78	46.00	-13.22

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5320MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	47.17	-13.97	33.20	43.50	-10.30
228.85	V	Peak	42.09	-14.56	27.53	46.00	-18.47
301.60	V	Peak	43.34	-12.41	30.93	46.00	-15.07
393.75	V	Peak	50.60	-11.00	39.60	46.00	-6.40
425.76	V	Peak	52.77	-10.33	42.44	46.00	-3.56
534.40	V	Peak	48.41	-8.44	39.97	46.00	-6.03
146.40	Н	Peak	39.59	-12.51	27.08	43.50	-16.42
248.25	Н	Peak	45.92	-13.91	32.01	46.00	-13.99
267.65	Н	Peak	50.04	-13.30	36.74	46.00	-9.26
396.66	Н	Peak	48.14	-10.94	37.20	46.00	-8.80
425.76	Н	Peak	42.18	-10.33	31.85	46.00	-14.15
532.46	Н	Peak	37.72	-8.48	29.24	46.00	-16.76

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT20, 5250~5350 MHz

TX CH Low Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5260MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
127.00	V	Peak	48.26	-14.09	34.17	43.50	-9.33
228.85	V	Peak	41.30	-14.56	26.74	46.00	-19.26
299.66	V	Peak	43.68	-12.45	31.23	46.00	-14.77
390.84	V	Peak	51.12	-11.03	40.09	46.00	-5.91
425.76	V	Peak	52.43	-10.33	42.10	46.00	-3.90
532.46	V	Peak	46.73	-8.48	38.25	46.00	-7.75
134.76	Н	Peak	41.07	-13.41	27.66	43.50	-15.84
248.25	Н	Peak	45.64	-13.91	31.73	46.00	-14.27
270.56	Н	Peak	49.24	-13.17	36.07	46.00	-9.93
398.60	Н	Peak	46.40	-10.93	35.47	46.00	-10.53
418.00	Н	Peak	42.71	-10.54	32.17	46.00	-13.83
534.40	Н	Peak	40.44	-8.44	32.00	46.00	-14.00

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5280MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
127.00	V	Peak	48.18	-14.09	34.09	43.50	-9.41
228.85	V	Peak	41.42	-14.56	26.86	46.00	-19.14
299.66	V	Peak	44.59	-12.45	32.14	46.00	-13.86
393.75	V	Peak	50.03	-11.00	39.03	46.00	-6.97
422.85	V	Peak	53.02	-10.42	42.60	46.00	-3.40
532.46	V	Peak	46.92	-8.48	38.44	46.00	-7.56
177.44	Н	Peak	41.56	-14.09	27.47	43.50	-16.03
250.19	Н	Peak	45.30	-13.88	31.42	46.00	-14.58
267.65	Н	Peak	49.67	-13.30	36.37	46.00	-9.63
390.84	Н	Peak	46.00	-11.03	34.97	46.00	-11.03
427.70	Н	Peak	43.98	-10.29	33.69	46.00	-12.31
534.40	Н	Peak	38.69	-8.44	30.25	46.00	-15.75

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5320MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
127.00	V	Peak	48.81	-14.09	34.72	43.50	-8.78
228.85	V	Peak	42.03	-14.56	27.47	46.00	-18.53
301.60	V	Peak	43.89	-12.41	31.48	46.00	-14.52
390.84	V	Peak	50.18	-11.03	39.15	46.00	-6.85
425.76	V	Peak	52.78	-10.33	42.45	46.00	-3.55
532.46	V	Peak	45.86	-8.48	37.38	46.00	-8.62
136.70	Н	Peak	41.73	-13.26	28.47	43.50	-15.03
248.25	Н	Peak	46.49	-13.91	32.58	46.00	-13.42
264.74	Н	Peak	50.04	-13.37	36.67	46.00	-9.33
396.66	Н	Peak	48.14	-10.94	37.20	46.00	-8.80
418.00	Н	Peak	44.24	-10.54	33.70	46.00	-12.30
532.46	Н	Peak	40.32	-8.48	31.84	46.00	-14.16

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40, 5250~5350 MHz

TX CH Low Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5270MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	43.99	-13.97	30.02	43.50	-13.48
228.85	V	Peak	41.98	-14.56	27.42	46.00	-18.58
299.66	V	Peak	43.01	-12.45	30.56	46.00	-15.44
425.76	V	Peak	49.25	-10.33	38.92	46.00	-7.08
505.30	V	Peak	39.50	-9.02	30.48	46.00	-15.52
864.20	V	Peak	35.99	-3.01	32.98	46.00	-13.02
151.25	Н	Peak	39.90	-12.20	27.70	43.50	-15.80
212.36	Н	Peak	45.69	-15.58	30.11	43.50	-13.39
274.44	Н	Peak	48.27	-13.06	35.21	46.00	-10.79
425.76	Н	Peak	41.40	-10.33	31.07	46.00	-14.93
505.30	Н	Peak	39.84	-9.02	30.82	46.00	-15.18
864.20	Н	Peak	35.27	-3.01	32.26	46.00	-13.74

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5310MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	41.97	-13.41	28.56	43.50	-14.94
228.85	V	Peak	40.98	-14.56	26.42	46.00	-19.58
299.66	V	Peak	41.88	-12.45	29.43	46.00	-16.57
425.76	V	Peak	49.32	-10.33	38.99	46.00	-7.01
505.30	V	Peak	39.09	-9.02	30.07	46.00	-15.93
864.20	V	Peak	35.77	-3.01	32.76	46.00	-13.24
141.55	Н	Peak	39.88	-12.95	26.93	43.50	-16.57
216.24	Н	Peak	45.41	-15.33	30.08	46.00	-15.92
267.65	Н	Peak	48.68	-13.30	35.38	46.00	-10.62
388.90	Н	Peak	41.15	-11.05	30.10	46.00	-15.90
427.70	Н	Peak	43.62	-10.29	33.33	46.00	-12.67
665.35	Н	Peak	35.43	-5.72	29.71	46.00	-16.29

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5500MHz Test By Bondi **Temperature** Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	47.47	-13.97	33.50	43.50	-10.00
228.85	V	Peak	40.94	-14.56	26.38	46.00	-19.62
299.66	V	Peak	43.99	-12.45	31.54	46.00	-14.46
390.84	V	Peak	50.67	-11.03	39.64	46.00	-6.36
425.76	V	Peak	52.25	-10.33	41.92	46.00	-4.08
532.46	V	Peak	49.61	-8.48	41.13	46.00	-4.87
136.70	Н	Peak	41.16	-13.26	27.90	43.50	-15.60
245.34	Н	Peak	46.47	-13.96	32.51	46.00	-13.49
280.26	Н	Peak	48.69	-12.95	35.74	46.00	-10.26
396.66	Н	Peak	47.11	-10.94	36.17	46.00	-9.83
422.85	Н	Peak	42.88	-10.42	32.46	46.00	-13.54
534.40	Н	Peak	38.92	-8.44	30.48	46.00	-15.52

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5600MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
131.85	V	Peak	47.24	-13.72	33.52	43.50	-9.98
224.00	V	Peak	41.68	-14.82	26.86	46.00	-19.14
299.66	V	Peak	43.23	-12.45	30.78	46.00	-15.22
388.90	V	Peak	50.25	-11.05	39.20	46.00	-6.80
425.76	V	Peak	52.72	-10.33	42.39	46.00	-3.61
534.40	V	Peak	44.80	-8.44	36.36	46.00	-9.64
151.25	Н	Peak	39.52	-12.20	27.32	43.50	-16.18
248.25	Н	Peak	45.38	-13.91	31.47	46.00	-14.53
264.74	Н	Peak	49.47	-13.37	36.10	46.00	-9.90
393.75	Н	Peak	45.46	-11.00	34.46	46.00	-11.54
427.70	Н	Peak	43.06	-10.29	32.77	46.00	-13.23
655.65	Н	Peak	37.28	-5.95	31.33	46.00	-14.67

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5700MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
127.00	V	Peak	48.46	-14.09	34.37	43.50	-9.13
228.85	V	Peak	41.66	-14.56	27.10	46.00	-18.90
299.66	V	Peak	43.38	-12.45	30.93	46.00	-15.07
390.84	V	Peak	49.97	-11.03	38.94	46.00	-7.06
425.76	V	Peak	52.58	-10.33	42.25	46.00	-3.75
532.46	V	Peak	46.00	-8.48	37.52	46.00	-8.48
151.25	Н	Peak	39.69	-12.20	27.49	43.50	-16.01
248.25	Н	Peak	45.20	-13.91	31.29	46.00	-14.71
267.65	Н	Peak	50.35	-13.30	37.05	46.00	-8.95
398.60	Н	Peak	48.61	-10.93	37.68	46.00	-8.32
427.70	Н	Peak	43.33	-10.29	33.04	46.00	-12.96
668.26	Н	Peak	35.20	-5.70	29.50	46.00	-16.50

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT20, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5500MHz Test By Bondi **Temperature** Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	48.24	-13.97	34.27	43.50	-9.23
228.85	V	Peak	42.04	-14.56	27.48	46.00	-18.52
301.60	V	Peak	45.26	-12.41	32.85	46.00	-13.15
396.66	V	Peak	49.66	-10.94	38.72	46.00	-7.28
425.76	V	Peak	53.03	-10.33	42.70	46.00	-3.30
532.46	V	Peak	49.93	-8.48	41.45	46.00	-4.55
154.16	Н	Peak	39.74	-12.18	27.56	43.50	-15.94
250.19	Н	Peak	46.64	-13.88	32.76	46.00	-13.24
267.65	Н	Peak	50.04	-13.30	36.74	46.00	-9.26
398.60	Н	Peak	47.81	-10.93	36.88	46.00	-9.12
422.85	Н	Peak	42.95	-10.42	32.53	46.00	-13.47
534.40	Н	Peak	41.48	-8.44	33.04	46.00	-12.96

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5600MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	47.63	-13.97	33.66	43.50	-9.84
228.85	V	Peak	41.69	-14.56	27.13	46.00	-18.87
299.66	V	Peak	44.77	-12.45	32.32	46.00	-13.68
393.75	V	Peak	50.10	-11.00	39.10	46.00	-6.90
425.76	V	Peak	52.46	-10.33	42.13	46.00	-3.87
534.40	V	Peak	45.99	-8.44	37.55	46.00	-8.45
141.55	Н	Peak	40.22	-12.95	27.27	43.50	-16.23
248.25	Н	Peak	46.00	-13.91	32.09	46.00	-13.91
264.74	Н	Peak	50.08	-13.37	36.71	46.00	-9.29
393.75	Н	Peak	47.12	-11.00	36.12	46.00	-9.88
418.00	Н	Peak	43.48	-10.54	32.94	46.00	-13.06
532.46	Н	Peak	40.09	-8.48	31.61	46.00	-14.39

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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## **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5700MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
128.94	V	Peak	47.72	-13.97	33.75	43.50	-9.75
248.25	V	Peak	41.50	-13.91	27.59	46.00	-18.41
299.66	V	Peak	43.23	-12.45	30.78	46.00	-15.22
390.84	V	Peak	51.26	-11.03	40.23	46.00	-5.77
425.76	V	Peak	52.49	-10.33	42.16	46.00	-3.84
534.40	V	Peak	49.24	-8.44	40.80	46.00	-5.20
151.25	Н	Peak	39.23	-12.20	27.03	43.50	-16.47
248.25	Н	Peak	46.40	-13.91	32.49	46.00	-13.51
267.65	Н	Peak	50.28	-13.30	36.98	46.00	-9.02
396.66	Н	Peak	47.61	-10.94	36.67	46.00	-9.33
427.70	Н	Peak	42.93	-10.29	32.64	46.00	-13.36
534.40	Н	Peak	40.24	-8.44	31.80	46.00	-14.20

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5510MHz Test By Bondi Temperature Pol Ver./Hor 25

65 % Humidity

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	43.27	-13.41	29.86	43.50	-13.64
219.15	V	Peak	42.24	-15.08	27.16	46.00	-18.84
299.66	V	Peak	42.62	-12.45	30.17	46.00	-15.83
425.76	V	Peak	48.99	-10.33	38.66	46.00	-7.34
505.30	V	Peak	42.23	-9.02	33.21	46.00	-12.79
864.20	V	Peak	36.53	-3.01	33.52	46.00	-12.48
154.16	Н	Peak	39.81	-12.18	27.63	43.50	-15.87
212.36	Н	Peak	45.87	-15.58	30.29	43.50	-13.21
280.26	Н	Peak	47.07	-12.95	34.12	46.00	-11.88
410.24	Н	Peak	41.69	-10.70	30.99	46.00	-15.01
427.70	Н	Peak	42.89	-10.29	32.60	46.00	-13.40
643.04	Н	Peak	35.41	-6.12	29.29	46.00	-16.71

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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## Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5590MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	43.10	-13.41	29.69	43.50	-13.81
228.85	V	Peak	42.03	-14.56	27.47	46.00	-18.53
299.66	V	Peak	42.98	-12.45	30.53	46.00	-15.47
427.70	V	Peak	49.34	-10.29	39.05	46.00	-6.95
505.30	V	Peak	40.09	-9.02	31.07	46.00	-14.93
864.20	V	Peak	36.08	-3.01	33.07	46.00	-12.93
151.25	Н	Peak	39.95	-12.20	27.75	43.50	-15.75
212.36	Н	Peak	45.39	-15.58	29.81	43.50	-13.69
282.20	Н	Peak	47.00	-12.90	34.10	46.00	-11.90
400.54	Н	Peak	41.02	-10.91	30.11	46.00	-15.89
427.70	Н	Peak	42.65	-10.29	32.36	46.00	-13.64
679.90	Н	Peak	35.08	-5.55	29.53	46.00	-16.47

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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## **Radiated Spurious Emission Measurement Result (below 1GHz)**

TX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5670MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Mar- gin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
122.15	V	Peak	45.60	-14.33	31.27	43.50	-12.23
224.00	V	Peak	41.88	-14.82	27.06	46.00	-18.94
301.60	V	Peak	42.72	-12.41	30.31	46.00	-15.69
427.70	V	Peak	49.00	-10.29	38.71	46.00	-7.29
505.30	V	Peak	45.47	-9.02	36.45	46.00	-9.55
641.10	V	Peak	40.10	-6.15	33.95	46.00	-12.05
151.25	Н	Peak	39.67	-12.20	27.47	43.50	-16.03
216.24	Н	Peak	44.87	-15.33	29.54	46.00	-16.46
277.35	Н	Peak	47.86	-13.01	34.85	46.00	-11.15
388.90	Н	Peak	40.52	-11.05	29.47	46.00	-16.53
427.70	Н	Peak	43.12	-10.29	32.83	46.00	-13.17
643.04	Н	Peak	35.59	-6.12	29.47	46.00	-16.53

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5150~5250 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5180MHz Test By Bondi **Temperature** Pol Ver. 25

60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4510.0	30.33		4.38	34.71		74.00	54.00	-19.29	Peak
10360.0	22.69		18.80	41.49		74.00	54.00	-12.51	Peak
15540.0						74.00	54.00		
20720.0						74.00	54.00		
25900.0						74.00	54.00		
31080.0						74.00	54.00		
36260.0						74.00	54.00		
41440.0						74.00	54.00		
51800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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# Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Low **Test Date** Mar. 22, 2011 Fundamental Frequency 5180MHz Test By Bondi **Temperature** Pol Ver. 25 60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4412.5	30.80		4.04	34.84		74.00	54.00	-19.16	Peak
10360.0	24.22		18.76	42.98		74.00	54.00	-11.02	Peak
15540.0						74.00	54.00		
20720.0						74.00	54.00		
25900.0						74.00	54.00		
31080.0						74.00	54.00		
36260.0						74.00	54.00		
41440.0						74.00	54.00		
51800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental fre-
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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## Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date Mar. 22, 2011 Fundamental Frequency 5220MHz Test By Bondi Temperature Pol Ver. 25

Humidity 60 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	34.05		0.99	35.04		74.00	54.00	-18.96	Peak
10440.0	23.12		18.65	41.77		74.00	54.00	-12.23	Peak
15660.0						74.00	54.00		
20880.0						74.00	54.00		
26100.0						74.00	54.00		
36540.0						74.00	54.00		
41760.0						74.00	54.00		
46980.0						74.00	54.00		
52200.0						74.00	54.00		

# Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5220MHz Test By Bondi Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4627.0	30.36		4.70	35.06		74.00	54.00	-18.94	Peak
10440.0	23.12		18.76	41.88		74.00	54.00	-12.12	Peak
15660.0						74.00	54.00		
20880.0						74.00	54.00		
26100.0						74.00	54.00		
36540.0						74.00	54.00		
41760.0						74.00	54.00		
46980.0						74.00	54.00		
52200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Humidity

#### FCC ID: XHF-TK500ABGNTS5XX IC: 8434A-500TS5XX

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### Radiated Spurious Emission Measurement Result (above 1GHz)

60 %

Operation Mode TX CH High **Test Date** Mar. 22, 2011 Fundamental Frequency 5240MHz Test By Bondi **Temperature** Pol Ver. 25

Peak AV**Actual FS Peak**  $\mathbf{AV}$ Freq. Reading Reading Ant./CL Peak  $\mathbf{AV}$ Limit Limit Margin (dBuV) (dBuV/m) (dBuV/m) (dBuV/m)(dB)(MHz) (dBuV) CF(dB) 0.99 3112.5 34.35 35.34 74.00 54.00 -18.66 Peak 10480.0 23.16 18.19 41.35 74.00 54.00 -12.65 Peak 15720.0 74.00 54.00 20960.0 74.00 54.00 26200.0 74.00 54.00 74.00 54.00 31440.0 36680.0 74.00 54.00 41920.0 74.00 54.00 47160.0 74.00 54.00 74.00 52400.0 54.00

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5240MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4627.0	30.50		4.70	35.20		74.00	54.00	-18.80	Peak
10480.0	22.88		18.76	41.64		74.00	54.00	-12.36	Peak
15720.0						74.00	54.00		
20960.0						74.00	54.00		
26200.0						74.00	54.00		
31440.0						74.00	54.00		
36680.0						74.00	54.00		
41920.0						74.00	54.00		
47160.0						74.00	54.00		
52400.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT20, 5150~5250 MHz

TX CH Low Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5180MHz Test By Bondi Temperature Pol Ver. 25

Humidity 60 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4263.0	31.49		3.48	34.97		74.00	54.00	-19.03	Peak
10360.0	23.77		18.69	42.46		74.00	54.00	-11.54	Peak
15540.0						74.00	54.00		
20720.0						74.00	54.00		
25900.0						74.00	54.00		
31080.0						74.00	54.00		
36260.0						74.00	54.00		
41440.0						74.00	54.00		
51800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

25

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5180MHz Test By Bondi Pol Hor Temperature

65 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4783.0	30.98		5.20	36.18		74.00	54.00	-17.82	Peak
10360.0	23.11		18.75	41.86		74.00	54.00	-12.14	Peak
15540.0						74.00	54.00		
20720.0						74.00	54.00		
25900.0						74.00	54.00		
36260.0						74.00	54.00		
41440.0						74.00	54.00		
51800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental fre-
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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# Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date Mar. 22, 2011 Fundamental Frequency 5220MHz Test By Bondi Temperature Pol Ver. 25

Humidity 60 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4367.0	31.13		6.56	37.69		74.00	54.00	-16.31	Peak
10440.0	23.18		18.76	41.94		74.00	54.00	-12.06	Peak
15660.0						74.00	54.00		
20880.0						74.00	54.00		
31320.0						74.00	54.00		
36540.0						74.00	54.00		
41760.0						74.00	54.00		
46980.0						74.00	54.00		
52200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5220MHz Test By Bondi Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4588.0	30.79		4.60	35.39		74.00	54.00	-18.61	Peak
10440.0	23.38		18.65	42.03		74.00	54.00	-11.97	Peak
15660.0						74.00	54.00		
20880.0						74.00	54.00		
31320.0						74.00	54.00		
36540.0						74.00	54.00		
41760.0						74.00	54.00		
46980.0						74.00	54.00		
52200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Operation Mode **Test Date** Mar. 22, 2011 Fundamental Frequency 5240MHz Test By Bondi **Temperature** Pol Ver. 25

60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	34.05		0.99	35.04		74.00	54.00	-18.96	Peak
10480.0	22.70		18.75	41.45		74.00	54.00	-12.55	Peak
20960.0						74.00	54.00		
26200.0						74.00	54.00		
31440.0						74.00	54.00		
36680.0						74.00	54.00		
41920.0						74.00	54.00		
47160.0						74.00	54.00		
52400.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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#### Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5240MHz Test By Bondi

Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4302.0	31.03		3.57	34.60		74.00	54.00	-19.40	Peak
10480.0	23.12		18.65	41.77		74.00	54.00	-12.23	Peak
15720.0						74.00	54.00		
26200.0						74.00	54.00		
31440.0						74.00	54.00		
36680.0						74.00	54.00		
41920.0						74.00	54.00		
47160.0						74.00	54.00		
52400.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT40, 5150~5250 MHz

TX CH Low Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5190MHz Test By Bondi Pol Ver. Temperature 25 Humidity 60 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4705.0	30.41		5.00	35.41		74.00	54.00	-18.59	Peak
10380.0	24.07		18.68	42.75		74.00	54.00	-11.25	Peak
15570.0						74.00	54.00		
20760.0						74.00	54.00		
25950.0						74.00	54.00		
31140.0						74.00	54.00		
36330.0						74.00	54.00		
41520.0						74.00	54.00		
46710.0						74.00	54.00		
51900.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5190MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4770.0	32.03		5.18	37.21		74.00	54.00	-16.79	Peak
10380.0	24.00		18.76	42.76		74.00	54.00	-11.24	Peak
15570.0						74.00	54.00		
20760.0						74.00	54.00		
25950.0						74.00	54.00		
31140.0						74.00	54.00		
10380.0						74.00	54.00		
36330.0						74.00	54.00		
46710.0						74.00	54.00		
51900.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH High Test Date Mar. 22, 2011 Fundamental Frequency 5230MHz Test By Bondi Pol Ver.

Temperature 25 60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4770.0	30.53		5.18	35.71		74.00	54.00	-18.29	Peak
10460.0	22.64		18.75	41.39		74.00	54.00	-12.61	Peak
15690.0						74.00	54.00		
20920.0						74.00	54.00		
26150.0						74.00	54.00		
31380.0						74.00	54.00		
36610.0						74.00	54.00		
41840.0						74.00	54.00		
47070.0						74.00	54.00		
52300.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5230MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4887.0	31.10		5.46	36.56		74.00	54.00	-17.44	Peak
10460.0	23.58		18.65	42.23		74.00	54.00	-11.77	Peak
15690.0						74.00	54.00		
20920.0						74.00	54.00		
26150.0						74.00	54.00		
31380.0						74.00	54.00		
36610.0						74.00	54.00		
41840.0						74.00	54.00		
47070.0						74.00	54.00		
52300.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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#### Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5250~5350 MHz

TX CH Low Mar. 22, 2011 Operation Mode Test Date

Fundamental Frequency 5260MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	34.76		0.99	35.75		74.00	54.00	-18.25	Peak
10520.0	24.78		18.69	43.47		74.00	54.00	-10.53	Peak
15780.0						74.00	54.00		
21040.0						74.00	54.00		
26300.0						74.00	54.00		
31560.0						74.00	54.00		
36820.0						74.00	54.00		
42080.0						74.00	54.00		
47340.0						74.00	54.00		
52600.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5260MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4653.0	30.43		4.82	35.25		74.00	54.00	-18.75	Peak
10520.0	23.21		18.68	41.89		74.00	54.00	-12.11	Peak
15780.0						74.00	54.00		
21040.0						74.00	54.00		
26300.0						74.00	54.00		
31560.0						74.00	54.00		
36820.0						74.00	54.00		
42080.0						74.00	54.00		
47340.0						74.00	54.00		
52600.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## **Radiated Spurious Emission Measurement Result (above 1GHz)**

TX CH Mid Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5280MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4412.5	30.63		4.04	34.67		74.00	54.00	-19.33	Peak
10560.0	23.59		18.48	42.07		74.00	54.00	-11.93	Peak
15840.0						74.00	54.00		
21120.0						74.00	54.00		
26400.0						74.00	54.00		
31680.0						74.00	54.00		
36960.0						74.00	54.00		
42240.0						74.00	54.00		
47520.0						74.00	54.00		
52800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5280MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4542.5	30.78		4.46	35.24		74.00	54.00	-18.76	Peak
10560.0	22.79		18.68	41.47		74.00	54.00	-12.53	Peak
15840.0						74.00	54.00		
21120.0						74.00	54.00		
26400.0						74.00	54.00		
31680.0						74.00	54.00		
36960.0						74.00	54.00		
42240.0						74.00	54.00		
47520.0						74.00	54.00		
52800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5320MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4627.0	30.74		4.70	35.44		74.00	54.00	-18.56	Peak
10640.0	23.64		18.70	42.34		74.00	54.00	-11.66	Peak
15960.0						74.00	54.00		
21280.0						74.00	54.00		
26600.0						74.00	54.00		
31920.0						74.00	54.00		
37240.0						74.00	54.00		
42560.0						74.00	54.00		
47880.0						74.00	54.00		
53200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5320MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4367.0	31.18		3.85	35.03		74.00	54.00	-18.97	Peak
10640.0	23.33		18.52	41.85		74.00	54.00	-12.15	Peak
15960.0						74.00	54.00		
21280.0						74.00	54.00		
26600.0						74.00	54.00		
31920.0						74.00	54.00		
37240.0						74.00	54.00		
42560.0						74.00	54.00		
47880.0						74.00	54.00		
53200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT20, 5250~5350 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5260MHz Test By Bondi Temperature Pol Ver 25

65 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4692.0	30.47		4.95	35.42		74.00	54.00	-18.58	Peak
10520.0	23.58		18.76	42.34		75.00	54.00	-11.66	Peak
15780.0						74.00	54.00		
21040.0						74.00	54.00		
26300.0						74.00	54.00		
31560.0						74.00	54.00		
36820.0						74.00	54.00		
42080.0						74.00	54.00		
47340.0						74.00	54.00		
52600.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5260MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4432.0	30.83		4.12	34.95		74.00	54.00	-19.05	Peak
10520.0	23.06		18.76	41.82		74.00	54.00	-12.18	Peak
15780.0						74.00	54.00		
21040.0						74.00	54.00		
26300.0						74.00	54.00		
31560.0						74.00	54.00		
36820.0						74.00	54.00		
42080.0						74.00	54.00		
47340.0						74.00	54.00		
52600.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode TX CH Mid Test Date Mar. 22, 2011 Fundamental Frequency 5280MHz Test By Bondi Temperature Pol Ver 25

65 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4523.0	30.56		4.41	34.97		74.00	54.00	-19.03	Peak
10600.0	23.25		18.76	42.01		74.00	54.00	-11.99	Peak
15840.0						74.00	54.00		
21120.0						74.00	54.00		
26400.0						74.00	54.00		
31680.0						74.00	54.00		
36960.0						74.00	54.00		
42240.0						74.00	54.00		
47520.0						74.00	54.00		
52800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5280MHz

Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4575.0	30.97		4.56	35.53		74.00	54.00	-18.47	Peak
10560.0	23.52		18.53	42.05		75.00	54.00	-11.95	Peak
15840.0						74.00	54.00		
21120.0						74.00	54.00		
26400.0						74.00	54.00		
31680.0						74.00	54.00		
36960.0						74.00	54.00		
42240.0						74.00	54.00		
47520.0						74.00	54.00		
52800.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## **Radiated Spurious Emission Measurement Result (above 1GHz)**

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5320MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4627.0	30.30		6.79	37.09		74.00	54.00	-16.91	Peak
10640.0	22.76		18.75	41.51		74.00	54.00	-12.49	Peak
15960.0						74.00	54.00		
21280.0						74.00	54.00		
26600.0						74.00	54.00		
31920.0						74.00	54.00		
37240.0						74.00	54.00		
42560.0						74.00	54.00		
47880.0						74.00	54.00		
53200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5320MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4627.0	30.37		4.70	35.07		74.00	54.00	-18.93	Peak
10640.0	23.44		18.44	41.88		74.00	54.00	-12.12	Peak
15960.0						74.00	54.00		
21280.0						74.00	54.00		
26600.0						74.00	54.00		
31920.0						74.00	54.00		
37240.0						74.00	54.00		
42560.0						74.00	54.00		
47880.0						74.00	54.00		
53200.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT40, 5250~5350 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5270MHz Test By Bondi Temperature Pol Ver 25

65 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4822.0	30.41		5.30	35.71		74.00	54.00	-18.29	Peak
10540.0	23.45		18.62	42.07		74.00	54.00	-11.93	Peak
15810.0						74.00	54.00		
21080.0						74.00	54.00		
26350.0						74.00	54.00		
31620.0						74.00	54.00		
36890.0						74.00	54.00		
42160.0						74.00	54.00		
47430.0						74.00	54.00		
52700.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5270MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4887.0	30.51		5.46	35.97		74.00	54.00	-18.03	Peak
10540.0	23.33		18.48	41.81		74.00	54.00	-12.19	Peak
15810.0						74.00	54.00		
21080.0						74.00	54.00		
26350.0						74.00	54.00		
31620.0						74.00	54.00		
36890.0						74.00	54.00		
42160.0						74.00	54.00		
47430.0						74.00	54.00		
52700.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5310MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4822.0	30.27		5.30	35.57		74.00	54.00	-18.43	Peak
10620.0	23.93		18.68	42.61		74.00	54.00	-11.39	Peak
15930.0						74.00	54.00		
21240.0						74.00	54.00		
26550.0						74.00	54.00		
31860.0						74.00	54.00		
37170.0						74.00	54.00		
42480.0						74.00	54.00		
47790.0						74.00	54.00		
53100.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5310MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4783.0	30.54		5.20	35.74		74.00	54.00	-18.26	Peak
10620.0	22.81		18.65	41.46		74.00	54.00	-12.54	Peak
15930.0						74.00	54.00		
21240.0						74.00	54.00		
26550.0						74.00	54.00		
31860.0						74.00	54.00		
37170.0						74.00	54.00		
42480.0						74.00	54.00		
47790.0						74.00	54.00		
53100.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz) UNII, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011 Fundamental Frequency 5500MHz Test By Bondi Temperature Pol Ver. 25

60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	34.09		0.99	35.08		74.00	54.00	-18.92	Peak
11000.0	23.57		18.80	42.37		74.00	54.00	-11.63	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		
33000.0						74.00	54.00		
38500.0						74.00	54.00		
44000.0						74.00	54.00		
49500.0						74.00	54.00		
55000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5500MHz

Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4562.0	30.26		4.56	34.82		74.00	54.00	-19.18	Peak
11000.0	23.57		18.80	42.37		74.00	54.00	-11.63	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		
33000.0						74.00	54.00		
38500.0						74.00	54.00		
44000.0						74.00	54.00		
49500.0						74.00	54.00		
55000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5600MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4607.5	30.48		4.65	35.13		74.00	54.00	-18.87	Peak
11200.0	23.13		18.76	41.89		74.00	54.00	-12.11	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		
33600.0						74.00	54.00		
39200.0						74.00	54.00		
44800.0						74.00	54.00		
50400.0						74.00	54.00		
56000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5600MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4458.0	30.63		4.20	34.83		74.00	54.00	-19.17	Peak
11200.0	23.18		18.80	41.98		74.00	54.00	-12.02	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		
33600.0						74.00	54.00		
39200.0						74.00	54.00		
44800.0						74.00	54.00		
50400.0						74.00	54.00		
56000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Radiated Spurious Emission Measurement Result (above 1GHz)**

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5700MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	35.64		0.99	36.63		74.00	54.00	-17.37	Peak
11400.0	22.92		18.75	41.67		74.00	54.00	-12.33	Peak
17100.0						74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		
34200.0						74.00	54.00		
39900.0						74.00	54.00		
45600.0						74.00	54.00		
51300.0						74.00	54.00		
57000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5700MHz Test By Bondi

Pol Hor Temperature 25 Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3795.0	34.25		1.93	36.18		74.00	54.00	-17.82	Peak
11400.0	23.02		18.61	41.63		74.00	54.00	-12.37	Peak
17100.0						74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		
34200.0						74.00	54.00		
39900.0						74.00	54.00		
45600.0						74.00	54.00		
51300.0						74.00	54.00		
57000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT20, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5500MHz Test By Bondi Temperature Pol Ver. 25

60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3112.5	35.04		0.99	36.03		74.00	54.00	-17.97	Peak
11000.0	23.32		18.75	42.07		75.00	54.00	-11.93	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		
33000.0						74.00	54.00		
38500.0						74.00	54.00		
44000.0						74.00	54.00		
49500.0						74.00	54.00		
55000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5500MHz

Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4770.0	31.33		5.18	36.51		74.00	54.00	-17.49	Peak
11000.0	22.90		18.69	41.59		74.00	54.00	-12.41	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		
33000.0						74.00	54.00		
38500.0						74.00	54.00		
44000.0						74.00	54.00		
49500.0						74.00	54.00		
55000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5600MHz Test By Bondi

Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4692.0	30.58		4.95	35.53		74.00	54.00	-18.47	Peak
11200.0	23.20		18.76	41.96		74.00	54.00	-12.04	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		
33600.0						74.00	54.00		
39200.0						74.00	54.00		
44800.0						74.00	54.00		
50400.0						74.00	54.00		
56000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5600MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4783.0	30.56		5.20	35.76		74.00	54.00	-18.24	Peak
11200.0	23.44		18.61	42.05		75.00	54.00	-11.95	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		
33600.0						74.00	54.00		
39200.0						74.00	54.00		
44800.0						74.00	54.00		
50400.0						74.00	54.00		
56000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Radiated Spurious Emission Measurement Result (above 1GHz)**

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5700MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4757.0	30.48		5.13	35.61		74.00	54.00	-18.39	Peak
11400.0	23.01		18.57	41.58		74.00	54.00	-12.42	Peak
17100.0						74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		
34200.0						74.00	54.00		
39900.0						74.00	54.00		
45600.0						74.00	54.00		
51300.0						74.00	54.00		
57000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5700MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4802.5	30.87		5.25	36.12		74.00	54.00	-17.88	Peak
11400.0	23.05		18.46	41.51		74.00	54.00	-12.49	Peak
17100.0						74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		
34200.0						74.00	54.00		
39900.0						74.00	54.00		
45600.0						74.00	54.00		
51300.0						74.00	54.00		
57000.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz) UNII HT40, 5470~5725 MHz

Operation Mode TX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5510MHz Test By Bondi Temperature Pol Ver. 25

60 % Humidity

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4887.0	30.08		5.46	35.54		74.00	54.00	-18.46	Peak
11020.0	23.88		18.65	42.53		74.00	54.00	-11.47	Peak
16530.0						74.00	54.00		
22040.0						74.00	54.00		
27550.0						74.00	54.00		
33060.0						74.00	54.00		
38570.0						74.00	54.00		
44080.0						74.00	54.00		
49590.0						74.00	54.00		
55100.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5510MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4607.5	31.09		4.65	35.74		74.00	54.00	-18.26	Peak
11020.0	22.76		18.75	41.51		74.00	54.00	-12.49	
16530.0						74.00	54.00		
22040.0						74.00	54.00		
27550.0						74.00	54.00		
33060.0						74.00	54.00		
38570.0						74.00	54.00		
44080.0						74.00	54.00		
49590.0						74.00	54.00		
55100.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5590MHz Test By Bondi

Pol Ver Temperature 25 Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4802.5	30.60		5.25	35.85		74.00	54.00	-18.15	Peak
11180.0	23.15		18.76	41.91		74.00	54.00	-12.09	Peak
16770.0						74.00	54.00		
22360.0						74.00	54.00		
27950.0						74.00	54.00		
33540.0						74.00	54.00		
39130.0						74.00	54.00		
44720.0						74.00	54.00		
50310.0						74.00	54.00		
55900.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5590MHz Test By Bondi

Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4887.0	30.40		5.46	35.86		74.00	54.00	-18.14	Peak
11180.0	23.48		18.64	42.12		75.00	54.00	-11.88	Peak
16770.0						74.00	54.00		
22360.0						74.00	54.00		
27950.0						74.00	54.00		
33540.0						74.00	54.00		
39130.0						74.00	54.00		
44720.0						74.00	54.00		
50310.0						74.00	54.00		
55900.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Radiated Spurious Emission Measurement Result (above 1GHz)**

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5670MHz Test By Bondi Pol Ver Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4783.0	30.56		5.20	35.76		74.00	54.00	-18.24	Peak
11340.0	22.82		18.68	41.50		74.00	54.00	-12.50	Peak
17010.0						74.00	54.00		
22680.0						74.00	54.00		
28350.0						74.00	54.00		
34020.0						74.00	54.00		
39690.0						74.00	54.00		
45360.0						74.00	54.00		
51030.0						74.00	54.00		
56700.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (5) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (above 1GHz)

TX CH High Test Date Operation Mode Mar. 22, 2011

Fundamental Frequency 5670MHz Test By Bondi Pol Hor Temperature 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
3782.0	33.97		1.90	35.87		74.00	54.00	-18.13	Peak
11340.0	23.03		18.72	41.75		74.00	54.00	-12.25	Peak
17010.0						74.00	54.00		
22680.0						74.00	54.00		
28350.0						74.00	54.00		
34020.0						74.00	54.00		
39690.0						74.00	54.00		
45360.0						74.00	54.00		
51030.0						74.00	54.00		
56700.0						74.00	54.00		

#### Remark:

- (1) Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- (2) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# Radiated Spurious Emission Measurement Result (below 1GHz) UNII HT40 (Worse case) 5470~5725 MHz

Operation Mode RX CH Low Test Date Mar. 22, 2011

Fundamental Frequency 5510MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	43.41	-13.41	30.00	43.50	-13.50
219.15	V	Peak	42.83	-15.08	27.75	46.00	-18.25
299.66	V	Peak	42.59	-12.45	30.14	46.00	-15.86
429.64	V	Peak	49.91	-10.25	39.66	46.00	-6.34
505.30	V	Peak	43.57	-9.02	34.55	46.00	-11.45
641.10	V	Peak	39.11	-6.15	32.96	46.00	-13.04
151.25	Н	Peak	40.02	-12.20	27.82	43.50	-15.68
212.36	Н	Peak	45.88	-15.58	30.30	43.50	-13.20
277.35	Н	Peak	47.70	-13.01	34.69	46.00	-11.31
427.70	Н	Peak	42.93	-10.29	32.64	46.00	-13.36
500.45	Н	Peak	36.92	-9.09	27.83	46.00	-18.17
864.20	Н	Peak	36.89	-3.01	33.88	46.00	-12.12

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。



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# Radiated Spurious Emission Measurement Result (below 1GHz)

RX CH Mid Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5590MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
136.70	V	Peak	42.25	-13.26	28.99	43.50	-14.51
224.00	V	Peak	42.04	-14.82	27.22	46.00	-18.78
299.66	V	Peak	42.02	-12.45	29.57	46.00	-16.43
425.76	V	Peak	49.09	-10.33	38.76	46.00	-7.24
493.66	V	Peak	43.58	-9.24	34.34	46.00	-11.66
641.10	V	Peak	38.59	-6.15	32.44	46.00	-13.56
158.04	Н	Peak	39.62	-12.00	27.62	43.50	-15.88
212.36	Н	Peak	46.02	-15.58	30.44	43.50	-13.06
280.26	Н	Peak	47.09	-12.95	34.14	46.00	-11.86
429.64	Н	Peak	42.46	-10.25	32.21	46.00	-13.79
500.45	Н	Peak	36.66	-9.09	27.57	46.00	-18.43
864.20	Н	Peak	37.66	-3.01	34.65	46.00	-11.35

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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# **Radiated Spurious Emission Measurement Result (below 1GHz)**

RX CH High Test Date Mar. 22, 2011 Operation Mode

Fundamental Frequency 5670MHz Test By Bondi Temperature Pol Ver./Hor 25

Humidity 65 %

Freq.	Ant.Pol.	Detector Mode	Reading	Factor	Actual FS	Limit3m	Safe Margin
(MHz)	H/V	(PK/QP)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
134.76	V	Peak	42.63	-13.41	29.22	43.50	-14.28
228.85	V	Peak	41.51	-14.56	26.95	46.00	-19.05
299.66	V	Peak	42.57	-12.45	30.12	46.00	-15.88
425.76	V	Peak	49.14	-10.33	38.81	46.00	-7.19
516.94	V	Peak	40.12	-8.81	31.31	46.00	-14.69
641.10	V	Peak	38.78	-6.15	32.63	46.00	-13.37
158.04	Н	Peak	39.62	-12.00	27.62	43.50	-15.88
212.36	Н	Peak	45.81	-15.58	30.23	43.50	-13.27
277.35	Н	Peak	47.57	-13.01	34.56	46.00	-11.44
427.70	Н	Peak	42.35	-10.29	32.06	46.00	-13.94
578.05	Н	Peak	35.39	-7.55	27.84	46.00	-18.16
864.20	Н	Peak	35.83	-3.01	32.82	46.00	-13.18

#### Remark:

- (1) Measuring frequencies from 30 MHz to the 1GHz<sub>o</sub>
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/QP detector mode.
- (3) Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (4) The IF bandwidth of SPA between 30MHz to 1GHz was 100KHz.

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# Radiated Spurious Emission Measurement Result (above 1GHz) UNII a (Worse case) 5470~5725MHz

RX CH Low Test Date Mar. 22, 2011 Operation Mode Fundamental Frequency 5500MHz Test By Bondi

Temperature Pol Ver. 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4835.0	30.60		5.27	35.87		74.00	54.00	-18.13	Peak
11000.0	23.70		18.70	42.40		74.00	54.00	-11.60	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (3) Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

RX CH Low Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5500MHz Test By Bondi Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4835.0	30.74		5.27	36.01		74.00	54.00	-17.99	Peak
11000.0	23.43		18.75	42.18		74.00	54.00	-11.82	Peak
16500.0						74.00	54.00		
22000.0						74.00	54.00		
27500.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

RX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5600MHz Test By Bondi Temperature Pol Ver 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4997.5	30.29		5.70	35.99		74.00	54.00	-18.01	Peak
11200.0	23.89		18.76	42.65		74.00	54.00	-11.35	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

RX CH Mid Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5600MHz Test By Bondi Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4588.0	31.42		4.60	36.02		74.00	54.00	-17.98	Peak
11200.0	24.18		18.76	42.94		74.00	54.00	-11.06	Peak
16800.0						74.00	54.00		
22400.0						74.00	54.00		
28000.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### Radiated Spurious Emission Measurement Result (above 1GHz)

RX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5700MHz Test By Bondi Temperature Pol Ver 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4607.5	31.30		4.65	35.95		74.00	54.00	-18.05	Peak
11400.0	23.01		18.80	41.81		74.00	54.00	-12.19	Peak
17100.0						74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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## Radiated Spurious Emission Measurement Result (above 1GHz)

RX CH High Test Date Operation Mode Mar. 22, 2011 Fundamental Frequency 5700MHz Test By Bondi Temperature Pol Hor 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
4913.0	31.46		5.47	36.93		74.00	54.00	-17.07	Peak
11400.0	22.66		18.72	41.38		74.00	54.00	-12.62	Peak
17100.0			r			74.00	54.00		
22800.0						74.00	54.00		
28500.0						74.00	54.00		

#### Remark:

- Measuring frequencies scanned from 1GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column<sub>o</sub>
- (4) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII $(5150 \sim 5350 \text{ MHz})$

#### **Radiated Emission:**

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5180 MHz Test By Bondi Temperature 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/n	(dB)	
5150.00	59.46	43.87	4.92	64.38	48.79	74.00	54.00	-5.21	AV
Operation	Mode	TX C	H Low			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequei	ncy 5180	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5150.00	65 85	43.27	6 20	72 05	49.47	74.00	54 00	-4.53	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### **Radiated Emission:**

TX CH High Test Date Mar. 23, 2011 Operation Mode Fundamental Frequency 5320MHz Bondi Test By Temperature Pol Ver. 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
5350.00	61.38	44.84	5.21	66.59	50.05	74.00	54.00	-3.95	AV
Operation Fundamen			H High MHz			Test Test		Mar. 23, 2 Bondi	011
Temperatu	re	25				Pol	-	Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5350.00	59.11	44.15	6.59	65.70	50.74	74.00	54.00	-3.26	AV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (3) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII HT20 ( $5150 \sim 5350 \text{ MHz}$ )

**Radiated Emission: HT20** 

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5180 MHz Test By Bondi Temperature 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/m	(dB)	
5150.00	55.18	43.00	6.20	61.38	49.20	74.00	54.00	-4.80	AV
Operation	Mode	TX C	H Low			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequer	ncy 5180	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5150.00	60.85	42.61	6.20	67.05	48.81	74.00	54.00	-5.19	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: HT20** 

TX CH High Test Date Mar. 23, 2011 Operation Mode

Fundamental Frequency 5320MHz Test By Bondi Temperature Pol Ver. 25

Humidity 65 %

		Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
	Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/n	(dB)	
	5350.00	57.34	41.86	6.59	63.93	48.45	74.00	54.00	-5.55	AV
	Operation 1			H High					Mar. 23, 2	011
	Fundament	tal Frequei	ncy 52401	MHz			Test	By	Bondi	
,	Temperatu	re	25				Pol		Hor.	
	Humidity		65 %							

		Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
	Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
,	5350.00	58.70	43.66	6 59	65 29	50.25	74 00	54.00	-3 75	ΑV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- Spectrum Peak Setting: 1GHz- 40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII HT40 ( $5150 \sim 5350 \text{ MHz}$ )

**Radiated Emission: HT40** 

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5190 MHz Test By Bondi Temperature 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/n	(dB)	
5150.00	64.43	46.32	6.18	70.61	52.50	74.00	54.00	-1.50	AV
Operation Fundament Temperatu Humidity	tal Frequei		H Low MHz			Test Test Pol		Mar. 23, 2 Bondi Hor.	011

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5150.00	64.97	46.52	6.18	71.15	52.70	74.00	54.00	-1.30	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### **Radiated Emission: HT40**

TX CH High Test Date Mar. 23, 2011 Operation Mode Fundamental Frequency 5310MHz Test By Bondi

Temperature Pol Ver. 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Acti	ual FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m	) (dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
5350.00	64.00	46.30	6.49	70.49	52.79	74.00	54.00	-1.21	AV
Operation 1	Mode	TX C	H High			Test	Date	Mar. 23, 2	011
Fundament	tal Frequer	ncy 5240]	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	) (dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5350.00	62.94	46.56	6.49	69.43	53.05	74.00	54.00	-0.95	AV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (3) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII, 5470~5725 MHz

#### **Radiated Emission:**

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5500 MHz Test By Bondi Temperature 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
5470.00	51.08	41.69	6.65	57.73	48.34	74.00	54.00	-5.66	AV
Operation	Mode	TX C	CH Low			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequei	ncy 5500	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5470.00	54.20	42.85	6.65	60.85	49.50	74.00	54.00	-4.50	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### **Radiated Emission:**

TX CH High Test Date Mar. 23, 2011 Operation Mode Fundamental Frequency 5700MHz Bondi Test By Temperature Pol Ver. 25 Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/n	(dB)	
5725.00	53.66	42.17	7.32	60.98	49.49	74.00	54.00	-4.51	AV
Operation	Mode	TX C	H High			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequei	ncy 5700	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

		Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
	Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
-4	5725.00	58.10	43.91	7.32	65.42	51.23	74.00	54.00	-2.77	AV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (3) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII HT20, 5470~5725 MHz

**Radiated Emission: HT20** 

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5500MHz Test By Bondi **Tmperature** 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/m	(dB)	
5470.00	50.90	41.64	6.57	57.47	48.21	74.00	54.00	-5.79	AV
Operation	Mode	TX C	H Low			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequei	ncy 5500]	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5470.00	53.49	42.53	6.57	60.06	49.10	74.00	54.00	-4.90	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: HT20** 

TX CH High Test Date Mar. 23, 2011 Operation Mode

Fundamental Frequency 5700 MHz Test By Bondi Temperature Pol Ver. 25

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)(	dBuV/n	(dB)	
5725.00	50.97	40.51	7.33	58.30	47.84	74.00	54.00	-6.16	AV
Operation Fundamen			H High			Test Test		Mar. 23, 2 Bondi	011
Temperatu		25	IVITIZ			Pol	5	Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5725.00	59.02	41.51	7.33	66.35	48.84	74.00	54.00	-5.16	AV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (3) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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# **Band Edge** UNII HT40, 5470~5725 MHz

**Radiated Emission: HT40** 

TX CH Low Test Date Operation Mode Mar. 23, 2011

Fundamental Frequency 5510MHz Test By Bondi **Tmperature** 25 Pol Ver.

Humidity 65 %

	Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	dBuV/m	(dB)	
5470.00	60.10	45.32	6.57	66.67	51.89	74.00	54.00	-2.11	AV
Operation	Mode	TX C	H Low			Test	Date	Mar. 23, 2	011
Fundamen	tal Frequei	ncy 55101	MHz			Test	By	Bondi	
Temperatu	re	25				Pol		Hor.	
Humidity		65 %							

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5470.00	62.69	46.17	6.57	69.26	52.74	74.00	54.00	-1.26	AV

#### Remark:

- Data of measurement within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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**Radiated Emission: HT40** 

TX CH High Test Date Mar. 23, 2011 Operation Mode

Fundamental Frequency 5670 MHz Bondi Test By Temperature Pol Ver. 25

Humidity 65 %

		Peak	$\mathbf{AV}$		Actu	al FS	Peak	$\mathbf{AV}$		
	Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
	(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/n	(dB)	
-	5725.00	47.13	37.85	7.33	54.46	45.18	74.00	54.00	-8.82	AV
	peration			CH High					Mar. 23, 2	011
		tal Frequer	•	MHz			Test Pol	Ву	Bondi	
	emperatu Iumidity	16	25 65 %				POI		Hor.	

	Peak	$\mathbf{AV}$		Actu	ıal FS	Peak	$\mathbf{AV}$		
Freq.	Reading	Reading	Ant./CL	Peak	$\mathbf{AV}$	Limit	Limit	Margin	Remark
(MHz)	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dB)	
5725.00	49.07	38.21	7.33	56.40	45.54	74.00	54.00	-8.46	AV

#### Remark:

- (1) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column
- (3) Spectrum Peak Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 3MHz, Sweep time= 200 ms.
- (4) Spectrum AV Setting: 1GHz-40GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

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#### TRANSMISSION IN THE ABSENCE OF DATA 11.

# 11.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

According to RSS-210 A9.4(4)

The device shall automatically discontinue transmission in case of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signalling information or the use of repetitive codes where required by the technology.

#### **11.2** Result:

No non-compliance noted:

Refer to the theory of operation.

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# 12. FREQUENCY STABILITY

# 12.1 Standard Applicable

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

# According to A9.5

(5) The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.

#### **12.2** Result:

No non-compliance noted:

±20ppm ppm was defined in module specification.

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# 13. ANTENNA REQUIREMENT

# 13.1 Standard Applicable

According to §15.203, Antenna requirement.

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

#### **13.2** Antenna Connected Construction

The directional gins of antenna used for transmitting is -1.03dBi for 2.4GHz, 3.26dBi for 5GHz, and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec.for details.

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#### 14. AC POWER LINE CONDUCTED EMISSION TEST

#### 14.1. **Standard Applicable**

According to §15.207 and RSS-Gen §7.2.4, frequency range within 150 KHz to 30 MHz shall not exceed the Limit table as below.

Frequency range	Lir dB(	nits (uV)
MHz	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

#### Note

#### 14.2. **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4-2003.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The LISN was connected with 120Vac/60Hz power source.

#### 14.3. **Measurement Procedure**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- **3.** Repeat above procedures until all frequency measured were complete.

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<sup>1.</sup> The lower limit shall apply at the transition frequencies

<sup>2.</sup> The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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# **Measurement Equipment Used:**

	Cor	nducted Emission T	est Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
EMI Test Receiver	R&S	ESCS30	828985/004	09/15/2010	09/14/2011
LISN	Rolf-Heine	NNB-2/16Z	99012	02/02/2011	02/01/2012
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	02/02/2011	02/01/2012
Coaxial Cables	N/A	WK CE Cable	N/A	11/28/2010	11/27/2011

#### 14.5. Measurement Result

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

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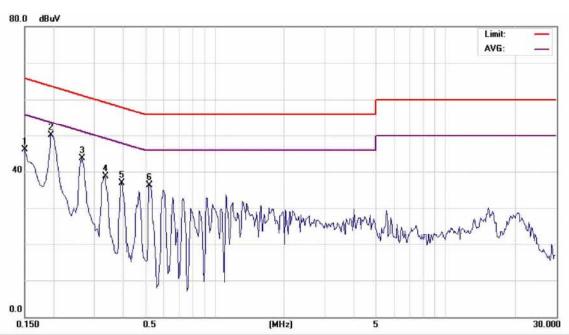


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# AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	ode: BT + WLAN Data Link – Adapter 1 Test Date			Test Date:	Mar. 24, 2011
Temperature:	24	Humidity:	60%	Test By:	Bondi



Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: TabletPC

M/N: TK500

Note: BT+WLANmode

Adaptor: LI SHIN / 0335A2065

Phase:	L1	Temperature:	23 °C
Power:	AC 120V/60Hz	Humidity:	59%
Distance	đ.	Air Pressure:	hpa

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dΒ	Detector	Comment	
1		0.1500	45.99	0.14	46.13	66.00	-19.87	peak		
2	*	0.1950	49.99	0.12	50.11	63.82	-13.71	peak		
3		0.2650	43.65	0.12	43.77	61.27	-17.50	peak		
4		0.3350	38.57	0.12	38.69	59.33	-20.64	peak	_	
5		0.3950	36.88	0.12	37.00	57.96	-20.96	peak		
6		0.5200	36.12	0.12	36.24	56.00	-19.76	peak		

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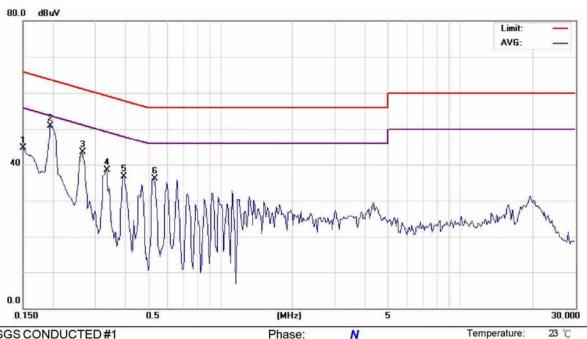
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Humidity:

Air Pressure:

59%

hpa



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: TabletPC

M/N: TK500

Note: BT+WLANmode

Adaptor: LI SHIN / 0335A2065

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment	
1		0.1500	44.52	0.19	44.71	66.00	-21.29	peak		
2	*	0.1950	50.65	0.16	50.81	63.82	-13.01	peak		
3		0.2650	43.31	0.16	43.47	61.27	-17.80	peak		
4		0.3350	38.31	0.16	38.47	59.33	-20.86	peak		
5		0.3950	36.47	0.16	36.63	57.96	-21.33	peak		
6		0.5300	35.92	0.16	36.08	56.00	-19.92	peak		

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Temperature:

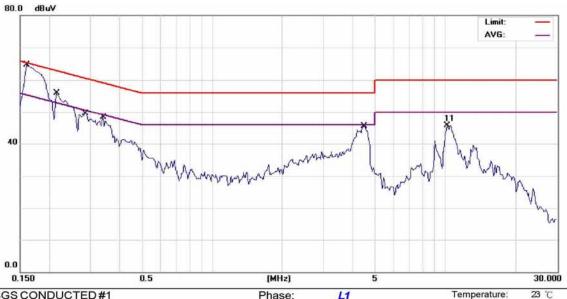
Air Pressure:

hpa

Humidity:

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Operation Mode:	BT + WLAN Da	ta Link – Adapter 2	Test Date:	Mar. 24, 2011	
Temperature:	24	Humidity:	60%	Test By:	Arno



Phase:

Power:

Distance:

L1

AC 120V/60Hz

Site SGS CONDUCTED #1

Limit: FCC Class B Conduction(QP)

EUT: TabletPC M/N: TK500

Note: BT + WLANmode

Adaptor: LITE-ON/PA-1650-68

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1	*	0.1617	61.18	0.13	61.31	65.38	-4.07	QP	
2		0.1617	41.30	0.13	41.43	55.38	-13.95	AVG	
3		0.2160	51.50	0.12	51.62	62.97	-11.35	QP	
4		0.2160	29.37	0.12	29.49	52.97	-23.48	AVG	
5		0.2845	44.05	0.12	44.17	60.68	-16.51	QP	
6		0.2845	28.65	0.12	28.77	50.68	-21.91	AVG	
7		0.3387	42.28	0.12	42.40	59.24	-16.84	QP	
8		0.3387	25.74	0.12	25.86	49.24	-23.38	AVG	
9		4.4768	38.53	0.18	38.71	56.00	-17.29	QP	
10		4.4768	27.54	0.18	27.72	46.00	-18.28	AVG	
11		10.2000	45.22	0.45	45.67	60.00	-14.33	peak	

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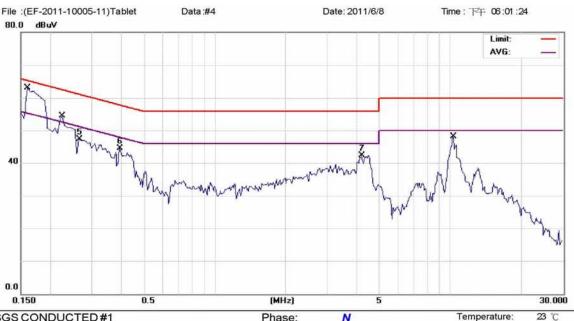
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Humidity:

Air Pressure:

59%

hpa



Power:

Distance:

AC 120V/60Hz

Site SGS CONDUCTED#1

Limit: FCC Class B Conduction(QP)

EUT: TabletPC M/N: TK500

Note: BT + WLANmode

Adaptor: LITE-ON/PA-1650-68

No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dВ	dBuV	dBuV	dВ	Detector	Comment
1	*	0.1617	57.68	0.18	57.86	65.38	-7.52	QP	
2		0.1617	39.50	0.18	39.68	55.38	-15.70	AVG	
3		0.2243	48.43	0.16	48.59	62.66	-14.07	QP	
4		0.2243	31.86	0.16	32.02	52.66	-20.64	AVG	
5		0.2650	47.18	0.16	47.34	61.27	-13.93	peak	
6		0.3950	44.44	0.16	44.60	57.96	-13.36	peak	
7		4.2100	42.07	0.21	42.28	56.00	-13.72	peak	
8		10.3291	41.50	0.48	41.98	60.00	-18.02	QP	
9		10.3291	34.27	0.48	34.75	50.00	-15.25	AVG	

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