

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: RN6 Series

Brand Name: RoyalTek

Model Name: RN6

Model Differences: N/A

FCC ID: RCCRN6

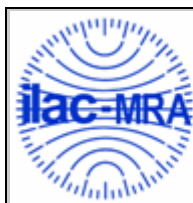
Report No.: ER/2009/60054

Rule: §15.239

Issue Date: Jul. 17, 2009

Prepared for: Royaltek Company Ltd.
4F, No.188 Wen Hwa 2nd Rd., Kuei Shan,
Tao Yuan 33383, Taiwan, R.O.C.

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No. 134, Wu Kung Rd., Wuku Industrial
Zone, Taipei County, Taiwan.



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VERIFICATION OF COMPLIANCE

Applicant: Royaltek Company Ltd
4F, No.188 Wen Hwa 2nd Rd., Kuei Shan, Tao Yuan 33383, Taiwan,
R.O.C.

Equipment Under Test: RN6 Series

Brand Name: RoyalTek

Model No.: RN6

Model Difference: N/A

FCC ID: RCCRN6

File Number: ER/2009/60054




Date of test: Jun. 23, 2009 ~ Jul. 16, 2009

Date of EUT Received: Jun. 23, 2009

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. 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 15.239.

The test results of this report relate only to the tested sample identified in this report.

Test By:		Date	Jul. 17, 2009
	<hr/>		<hr/>
	<i>Bondi Liu / Engineer</i>		
Prepared By:		Date	Jul. 17, 2009
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	<i>Elisa Chen/Asst. Supervisor</i>		
Approved By:		Date	Jul. 17, 2009
	<hr/>		<hr/>
	<i>Jim Chang / Supervisor</i>		

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Version

Version No.	Date	Description
00	Jul. 17, 2009	Initial creation of document

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name	RN6 Series	
Brand Name	RoyalTek	
Model Name	RN6	
Model Difference	N/A	
Hardware Version:	Version C	
Software Version:	SO:V1.3.4.1501 AP:1.0.0.35 FullSKu_RTK_ENG	
Power Supply	1. 3.7 Vdc re-chargeable battery 2. 5Vdc by AC/DC power adapter 3. 12Vdc form car charger 4. USB Cable form PC Port	
	Adapter:	Model No.:PSAA05A-050, Supplier: PHIHONG
	Car charger	Model No.: LENCHENG GER-2MK-C

Bluetooth:

Bluetooth Ver.sion	<input type="checkbox"/> V1.1 (GFSK) <input type="checkbox"/> V1.2 (GFSK) <input type="checkbox"/> V2.0 (GFSK) <input type="checkbox"/> V2.0 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK) <input checked="" type="checkbox"/> V2.1 + EDR (GFSK + $\pi/4$ DQPSK + 8DPSK)
Frequency Range	2402 – 2480MHz
Channel number	79 channels max.
Rated Power	0.41 dBm (Peak)
Modulation type	Frequency Hopping Spread Spectrum
Antenna Designation	PIFA Antenna / -0.46dBi.
Type of Emission	1M04F7D

The EUT is compliance with Bluetooth 2.1 Standard.

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FM Transmitter:

Operating Frequency	88.2 – 107.8 MHz for North America, Australian/New Zealand and EU
Transmit Power	<1uW(-30dBm)
Modulation Technique	Frequency Modulation
Number of Channels	100KHz step
Operating Mode	Point-to-Point
Antenna Type	A permanent fixed antenna, which is built-In, designed as an indispensable part of the EUT.

GPS:

Receiver Frequency	L1 Band, 1575.42MHz
Frequency Conversion oscillator	26MHz
Antenna Designation	Patch Antenna

The EUT is Band II LPD (low power devices) device.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **RCCRN6** filing to comply with Section 15.239 of the FCC Part 15, Subpart C Rules.

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. 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-1

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. 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.

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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 Transmitter was operated in the normal operating mode. the Tx frequency was fixed which 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 30MHz 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 C63.4-2003.9

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	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

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

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(2) Radiated Emission

- a. Emission from the intentional radiator shall be confined with a band 200kHz wide centered on the operation frequency. The 200kHz band shall lie wholly within the frequency range of 88-108 MHz.
- b. The field strength of any emission within the permitted 200kHz band shall not exceed 250 micro volts/meter at 3 meters. (48dBμV at 3m) The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in section 15.35 for limiting peak emissions apply.
- c. The field strength of any emissions radiated on any frequency outside of the specified 200kHz band shall not exceed the general radiated emission limits in section 15.209(Intentional Radiators general limit).as below.

Frequency (MHz)	Field strength μV/m	Distance (m)	Field strength at 3m dBμV/m
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

- Remark:
- 1. Emission level in dBuV/m=20 log (uV/m)
 - 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
 - 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ15.205, then the general radiated emission limits in ξ 15.209 apply.

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2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

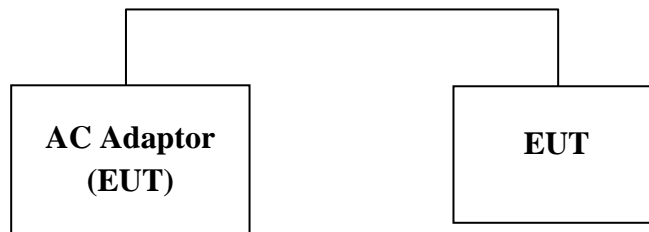


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	N/A					

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3. Summary of Test Results

Description Of Test	Remark
Conducted Emission	Complied
Radiated Emission	Complied
20dB Bandwidth	Complied

4. Description of test modes

The frequency 88.2 MHz, 98.0 MHz, 107.8 MHz are chosen with 1kHz audio signal for full testing. And the EUT stay in continuous transmitting mode.

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5. Conducted Emissions Test (Not applicable in the report)

5.1 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.

5.2 Test SET-UP (Block Diagram of Configuration)

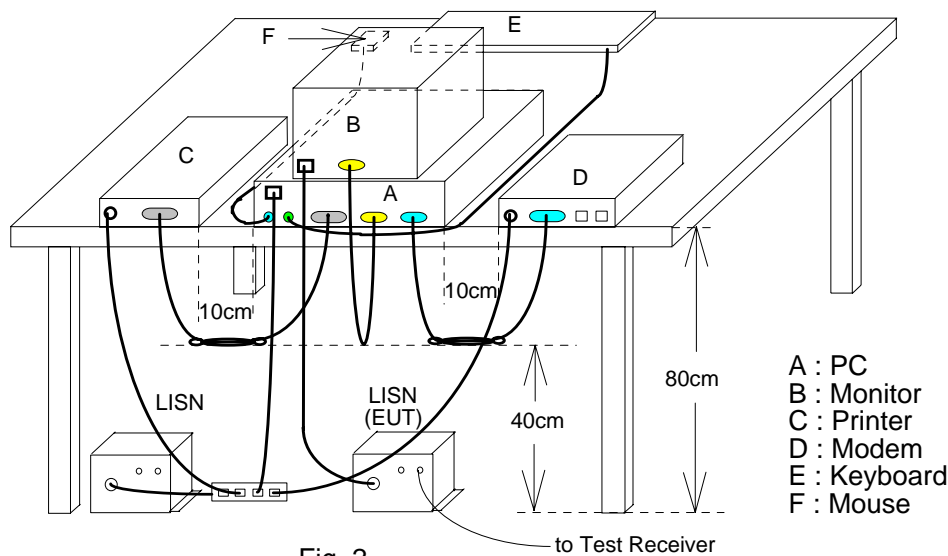


Fig. 2

5.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCS30	828985/004	09/16/2008	09/15/2009
LISN	Rolf-Heine	NNB-2/16Z	99012	04/28/2009	04/27/2010
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	04/28/2009	04/27/2010
Coaxial Cables	N/A	WK CE Cable	N/A	10/30/2008	10/29/2009

5.4 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 hen quasi-peaked

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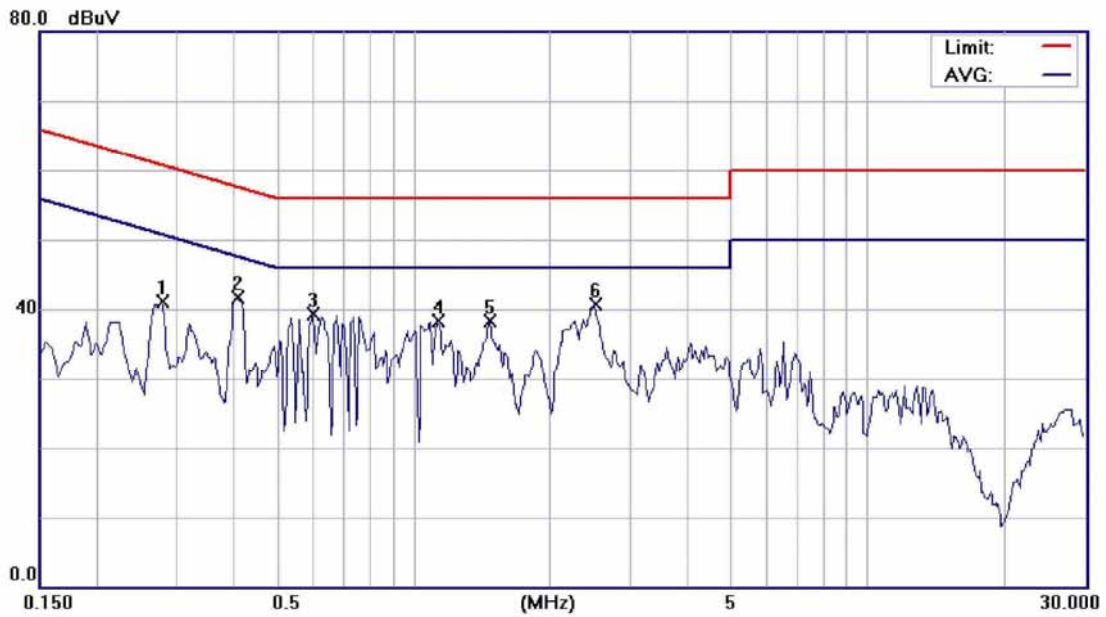
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	FM Mode			Test Date:	Jul. 06, 2009
Temperature:	23 °C	Humidity:	60 %	Test By:	Bondi

Conducted Emission Measurement



Site	SGS CONDUCTED #1	Phase:	L1	Temperature:	23 °C
Limit:	CISPR22/11/EN55022 Class B	Power:	AC 110V/60Hz	Humidity:	60 %
EUT:	RN6 Servies	Distance:		Air Pressure:	hpa
M/N:	RN6				
Note:	FM				

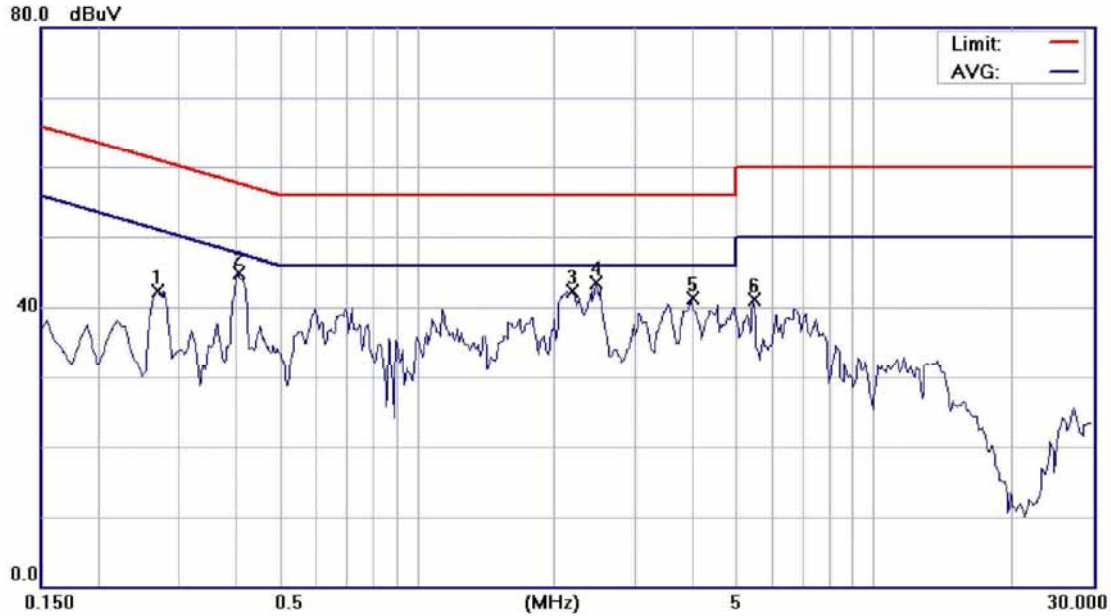
No.	Mk.	Freq.	Reading Level	Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2800	41.00	0.10	41.10	60.82	-19.72	peak	
2		0.4100	41.63	0.08	41.71	57.65	-15.94	peak	
3		0.6000	39.22	0.07	39.29	56.00	-16.71	peak	
4		1.1300	38.27	0.10	38.37	56.00	-17.63	peak	
5		1.4700	38.20	0.11	38.31	56.00	-17.69	peak	
6	*	2.5100	40.52	0.14	40.66	56.00	-15.34	peak	

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Conducted Emission Measurement



Site: SGS CONDUCTED #1	Phase: N	Temperature: 23 °C
Limit: CISPR22/11/EN55022 Class B	Power: AC 110V/60Hz	Humidity: 60 %
EUT: RN6 Servies	Distance:	Air Pressure: hpa
M/N: RN6		
Note: FM		

No.	Mk.	Freq. MHz	Reading Level dBuV	Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2700	42.27	0.12	42.39	61.12	-18.73	peak	
2		0.4050	44.76	0.09	44.85	57.75	-12.90	peak	
3		2.1800	42.15	0.13	42.28	56.00	-13.72	peak	
4	*	2.4700	43.32	0.14	43.46	56.00	-12.54	peak	
5		4.0000	41.20	0.16	41.36	56.00	-14.64	peak	
6		5.4600	40.97	0.19	41.16	60.00	-18.84	peak	

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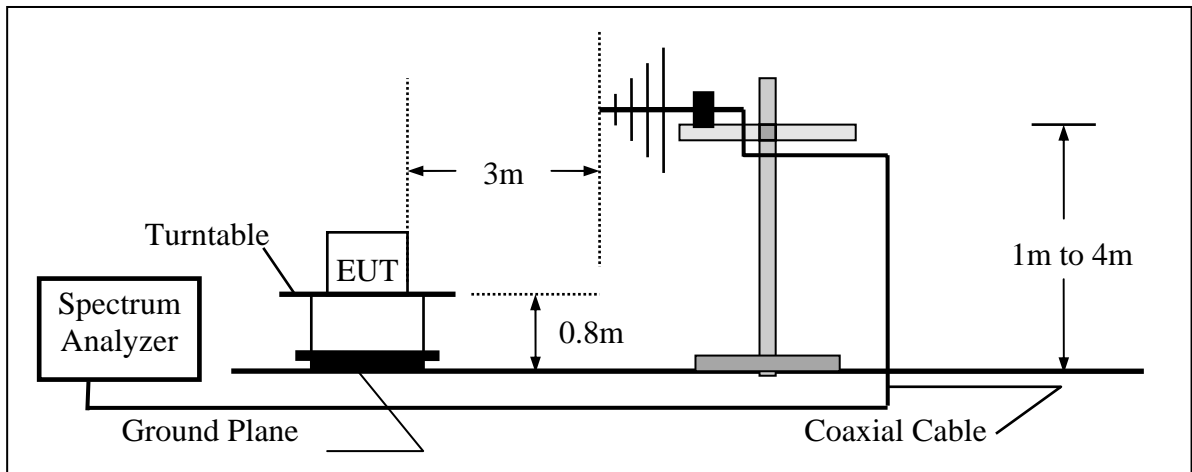
6. Radiated Emission Test

6.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

6.2 Test SET-UP (Block Diagram of Configuration)

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



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6.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	R&S	FSP 40	100034	02/22/2009	02/21/2010
Bilog Antenna	SCHWAZBECK	VULB9160	9160-3136	11/15/2008	11/14/2009
Horn antenna	SCHWAZBECK	BBHA 9120D	9120D-320	03/14/2009	03/13/2010
Pre-Amplifier	Agilent	8447D	1937A02834	11/30/2008	11/29/2009
Pre-Amplifier	Agilent	8449B	3008A01973	01/05/2009	01/04/2010
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	HUBER+SUHNER	SUCOFLEX 104PEA-10M	10m	01/05/2009	01/04/2010
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA-3M	3m	01/05/2009	01/04/2010

6.4 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	

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6.5 Measurement Result

Operation Mode:	Transmitting Mode	Test Date :	Jul. 08, 2009
Fundamental Frequency:	88.2 MHz	Test By:	Bondi
Temperature :	25	Pol:	Vertical
Humidity :	65 %		

Freq. (MHz)	Ant.Pol. H/V	Detector			Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
		Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)				
88.20	V	Peak	59.74	-17.80	41.94	48.00	-6.06	F
39.70	V	Peak	46.43	-14.32	32.11	40.00	-7.89	E
56.68	V	Peak	48.55	-14.08	34.47	40.00	-5.53	E
124.58	V	Peak	36.40	-13.46	22.94	43.50	-20.56	E
160.95	V	Peak	35.44	-12.68	22.76	43.50	-20.74	E
176.40	V	Peak	--			43.50		H
219.15	V	Peak	38.26	-13.74	24.52	46.00	-21.48	E
236.13	V	Peak	39.76	-13.21	26.55	46.00	-19.45	E
264.60	V	Peak	--			46.00		H
352.80	V	Peak	--			46.00		H
441.00	V	Peak	--			46.00		H
529.20	V	Peak	--			46.00		H
617.40	V	Peak	--			46.00		H
705.60	V	Peak	--			46.00		H
793.80	V	Peak	--			46.00		H
882.00	V	Peak	--			46.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz. VBW= 300KHz

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Operation Mode: Transmitting Mode Test Date : Jul. 08, 2009
 Fundamental Frequency: 88.2 MHz Test By: Bondi
 Temperature : 25 Pol: Horizontal
 Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
88.20	H	Peak	61.13	-17.80	43.33	48.00	-4.67	F
56.68	H	Peak	36.80	-14.08	22.72	40.00	-17.28	E
134.28	H	Peak	38.10	-12.83	25.27	43.50	-18.23	E
158.53	H	Peak	33.04	-12.75	20.29	43.50	-23.21	E
176.40	H	Peak	--			43.50		H
236.13	H	Peak	35.16	-13.21	21.95	46.00	-24.05	E
264.60	H	Peak	--			46.00		H
352.80	H	Peak	--			46.00		H
441.00	H	Peak	--			46.00		H
468.93	H	Peak	30.28	-7.01	23.27	46.00	-22.73	H
529.20	H	Peak	--			46.00		H
617.40	H	Peak	--			46.00		H
705.60	H	Peak	--			46.00		H
793.80	H	Peak	--			46.00		H
882.00	H	Peak	--			46.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz .
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Operation Mode: Transmitting Mode
 Fundamental Frequency: 98.0 MHz
 Temperature : 25
 Humidity : 65 %

Test Date : Jul. 08, 2009
 Test By: Bondi
 Pol: Vertical

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
98.00	V	Peak	61.31	-17.60	43.71	48.00	-4.29	F
37.28	V	Peak	45.13	-14.52	30.61	40.00	-9.39	E
56.68	V	Peak	48.45	-14.08	34.37	40.00	-5.63	E
160.95	V	Peak	34.99	-12.68	22.31	43.50	-21.19	E
196.00	V	Peak	--			43.50		H
209.45	V	Peak	45.60	-13.74	31.86	43.50	-11.64	E
236.13	V	Peak	41.20	-13.21	27.99	46.00	-18.01	E
294.00	V	Peak	--			46.00		H
392.00	V	Peak	--			46.00		H
490.00	V	Peak	--			46.00		H
588.00	V	Peak	--			46.00		H
686.00	V	Peak	--			46.00		H
784.00	V	Peak	--			46.00		H
882.00	V	Peak	--			46.00		H
980.00	V	Peak	--			54.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz °
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz. VBW= 300KHz

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Operation Mode: Transmitting Mode Test Date : Jul. 08, 2009
 Fundamental Frequency: 98.0 MHz Test By: Bondi
 Temperature : 25 Pol: Horizontal
 Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector		Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note	
		Mode (PK/AV/QP)	Reading (dBuV)					
98.00	H	Peak	65.33	-17.60	47.73	48.00	-0.27	F
56.68	H	Peak	35.61	-14.08	21.53	40.00	-18.47	E
160.95	H	Peak	32.64	-12.68	19.96	43.50	-23.54	E
196.00	H	Peak	-			43.50		H
209.45	H	Peak	38.58	-14.50	24.08	43.50	-19.42	E
236.13	H	Peak	36.70	-13.21	23.49	46.00	-22.51	E
253.10	H	Peak	34.59	-12.83	21.76	46.00	-24.24	E
294.00	H	Peak	-			46.00		H
392.00	H	Peak	-			46.00		H
490.00	H	Peak	-			46.00		H
588.00	H	Peak	-			46.00		H
686.00	H	Peak	-			46.00		H
784.00	H	Peak	-			46.00		H
882.00	H	Peak	-			46.00		H
980.00	H	Peak	-			54.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz °
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz, VBW=300KHz.

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Operation Mode: Transmitting Mode
 Fundamental Frequency: 107.8 MHz
 Temperature : 25
 Humidity : 65 %

Test Date : Jul. 08, 2009
 Test By: Bondi
 Pol: Vertical

Freq. (MHz)	Ant.Pol. H/V	Detector		Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
		Mode (PK/AV/QP)	Reading (dBuV)					
107.80	V	Peak	63.29	-16.41	46.88	48.00	-1.12	F
39.70	V	Peak	45.94	-14.32	31.62	40.00	-8.38	E
56.68	V	Peak	48.15	-14.08	34.07	40.00	-5.93	E
160.95	V	Peak	34.79	-12.68	22.11	43.50	-21.39	E
209.45	V	Peak	47.21	-14.50	32.71	43.50	-10.79	E
215.60	V	Peak	--			43.50		H
236.13	V	Peak	42.92	-13.21	29.71	46.00	-16.29	E
245.83	V	Peak	38.61	-12.99	25.62	46.00	-20.38	E
323.40	V	Peak	--			46.00		H
431.20	V	Peak	--			46.00		H
539.00	V	Peak	--			46.00		H
646.80	V	Peak	--			46.00		H
754.60	V	Peak	--			46.00		H
862.40	V	Peak	--			46.00		H
970.20	V	Peak	--			54.00		H
1078.00	V	Peak	--			54.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz °
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz. VBW= 300KHz

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Operation Mode: Transmitting Mode Test Date : Jul. 08, 2009
 Fundamental Frequency: 107.8 MHz Test By: Bondi
 Temperature : 25 Pol: Horizontal
 Humidity : 65 %

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/AV/QP)	Reading (dBuV)	Factor (dB)	Actual FS (dBuV/m)	Limit@3m (dBuV/m)	Safe Margin (dB)	Note
107.80	H	Peak	64.08	-16.41	47.67	48.00	-0.33	F
56.68	H	Peak	36.92	-14.08	22.84	40.00	-17.16	E
202.18	H	Peak	39.12	-14.66	24.46	43.50	-19.04	E
209.45	H	Peak	41.51	-14.50	27.01	43.50	-16.49	E
215.60	H	Peak	39.15	-13.74	25.41	43.50	-18.09	H
236.13	H	Peak	38.30	-13.21	25.09	46.00	-20.91	E
323.40	H	Peak	--			46.00		H
335.55	H	Peak	33.59	-10.45	23.14	46.00	-22.86	E
431.20	H	Peak	--			46.00		H
539.00	H	Peak	--			46.00		H
646.80	H	Peak	--			46.00		H
754.60	H	Peak	--			46.00		H
862.40	H	Peak	--			46.00		H
970.20	H	Peak	--			54.00		H
1078.00	H	Peak	--			54.00		H

Remark :

- (1) Measuring frequencies from 30 MHz to the 1GHz °
- (2) Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak detector mode.
- (3) “F” denotes fundamental frequency; “H” denotes spurious frequency. “E” denotes band edge frequency.
- (4) 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.
- (5) The IF bandwidth of SPA 30MHz to 1GHz was 100KHz, VBW=300KHz.

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7. 20dB Occupied Bandwidth

7.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10KHz, Span =500KHz.
4. Set SPA Max hold. Mark peak, -20dB.

7.2 Test SET-UP (Block Diagram of Configuration)

Same as 4.2 Radiated Emission Measurement.

7.3 Measurement Equipment Used:

Same as 4.2 Radiated Emission Measurement.

7.4 Measurement Results

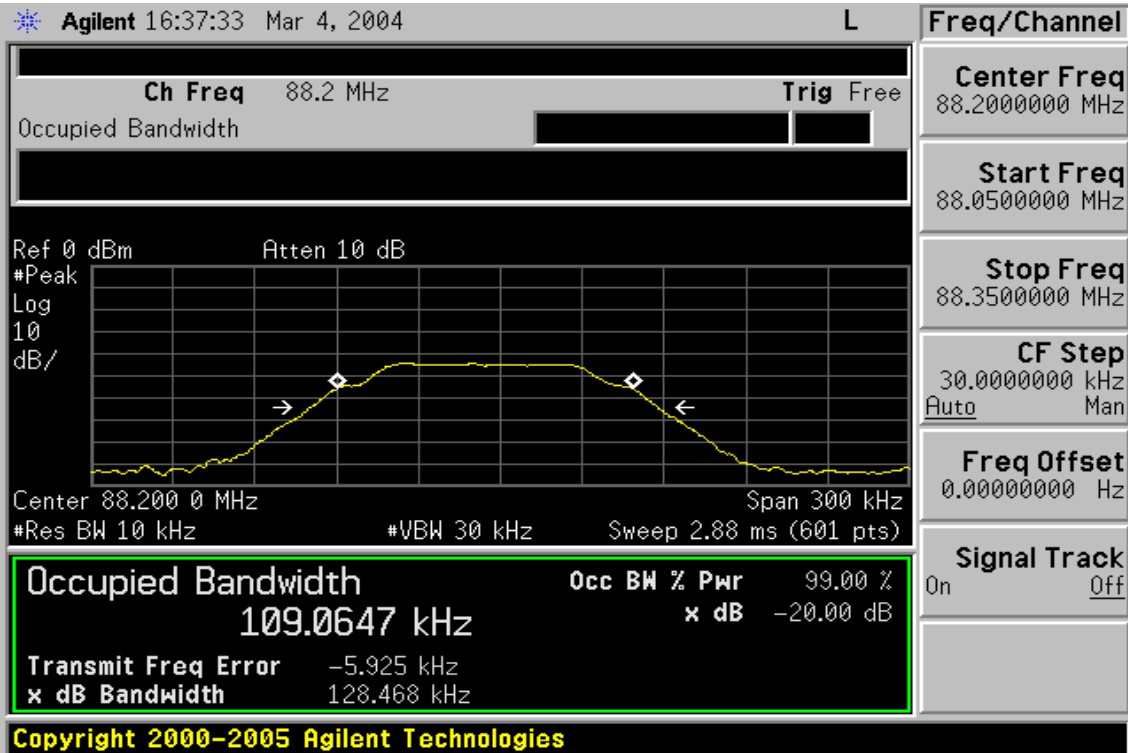
Please refer to next page for test plots.

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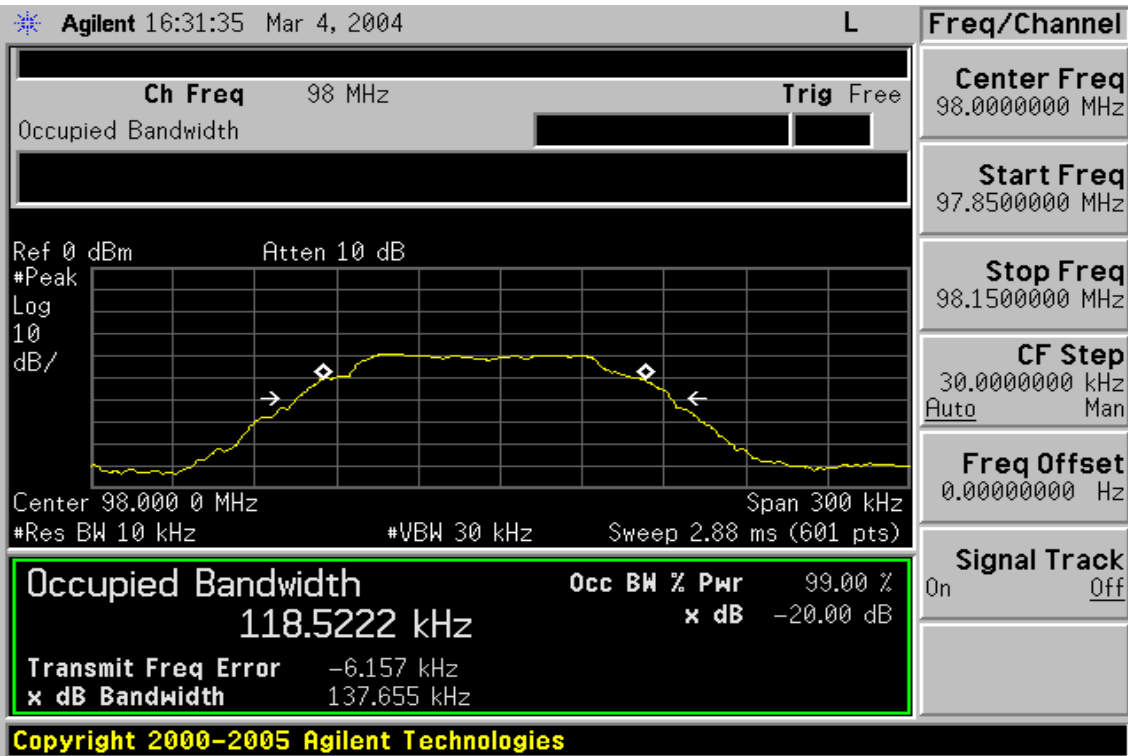
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CH Low



CH Mid

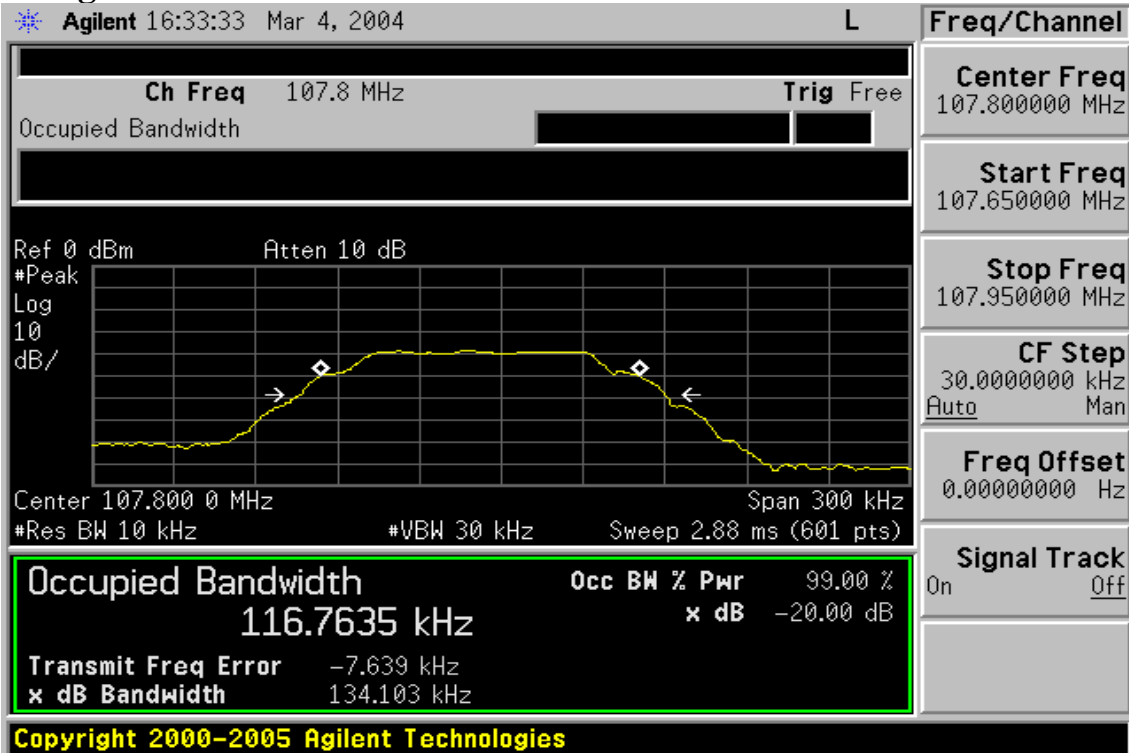


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CH High



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