

Report No.: EF/2009/8002-2 Issue Date: Oct. 7, 2009

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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

Class II Permissive Change

OF

Product Name: Inspire S2 Wireless

Brand Name: Creative

Model Name: MF0390

Model Difference: N/A

FCC ID: IBAMF0390

Report No.: EF/2009/80002-2

Issue Date: Oct. 7, 2009

Rule Part: Part 15.247

Prepared for: Creative Labs Inc

1901 McCarthy Blvd, Milpitas, California 95035,

United States

Prepared by: SGS Taiwan Ltd.

Electronics & Communication Laboratory

No. 134, Wu Kung Rd., Wuku Industrial Zone,

Taipei County, Taiwan.





台灣檢驗科技股份有限公司

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CERTIFICATION OF COMPLIANCE

Applicant: Creative Labs Inc

1901 McCarthy Blvd, Milpitas, California 95035, United States

Manufacturer: Guoguang Electric Co., Ltd. (Factory)

No. 8 Jinghu Road, Xinhua Street, Huadu Reg, Guangzhou, 510800,

P.R. China Country: P.R. China

Product Name: Inspire S2 Wireless

Brand Name: Creative

FCC ID: IBAMF0390

Model No.: MF0390

Model Difference: N/A

File Number: EF/2009/80002-2

Date of test: Oct. 2, 2009 ~ Oct. 5, 2009

Date of EUT Received: Oct.7, 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 RSS-Gen. issue 2:2007, 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 15C:2007, §15.247 and RSS-210 issue 7: 2007 Annex 8.

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

Test By:	Sky Wang	Date:	Oct. 7, 2009	
Prepared By:	Sky Wang / Engineer	Date:	Oct. 7, 2009	
Approved By:	Alex Chen / Engineer-P Vincent Su / Manager	Date:	Oct. 7, 2009	

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Version

Version No.	Date	Description
00	Oct. 7, 2009	Initial creation of document

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1. GENERAL INFORMATION

1.1. Product Description

General:

Ochciai.					
Product Name:	Inspire S2 Wirele	Inspire S2 Wireless			
Brand Name:	Creative	Creative			
Model Name:	MF0390				
Model Difference:	N/A				
	15Vdc by AC/DC	power adapter			
Power Supply:	Adapter: Model: GPE602-150350W(ADC00000058 Supplier: Golden Profit Electronics Ltd				
Bluetooth:					
Frequency Range:	2402 – 2480MHz				
Bluetooth Version:	 V1.1 (GFSK) V1.2 (GFSK) V2.0 (GFSK) V2.0 + EDR (GFSK + π/4DQPSK + 8DPSK) V2.1 + EDR (GFSK + π/4DQPSK + 8DPSK) 				
Channel number:	79 channels				
Modulation type:	Frequency Hoppi	ng Spread Spectrum			
Transmit Power:	3.55 dBm (Peak)				
Dwell Time:	<= 0.4s				
Operating Mode:	Point-to-Point				
Antenna Designation:	Chip Antenna, -0.7dBi.				
Type of Emission:	1M26FXD				

This test report applies for BT.

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

This submittal(s) (test report) is intended for FCC ID: <u>IBAMF0390</u> filing to comply with Section 15.247 of the FCC Part 15C, Subpart C Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (2003) and RSS-Gen: 2007. 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.

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 Creative was tested with a test program to fix the Tx/RX frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

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, 13 of ANSI C63.4-2003 and RSS-Gen:2007. 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 of ANSI C63.4-2003.

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2.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed channel)



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	Notebook	IBM	T43	L3LHHN6	N/A	Shielding
2	Test Kit	N/A	N/A	N/A	Un-Shielding	N/A
3	Test software	BlueSuite 1.22	CSR	Version 1.22	N/A	N/A

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.247(b)(1)/	Peak Output Power	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under engineering test condition. Test program was used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low (2402MHz) · mid (2441MHz) and high (2480MHz) with BDR/EDR modes are chosen for full testing.

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5. PEAK OUTPUT POWER MEASUREMENT

5.1. Standard Applicable:

According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: 0.125 Watts.

5.2. Measurement Equipment Used:

Conducted Emission Test Site								
EQUIPMENT	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.				
Spectrum Analyzer	Agilent	E4446A	MY43360126	04/19/2008	04/18/2010			
Spectrum Analyzer	Agilent	E4440A	MY45304525	01/23/2008	01/22/2010			
DC Block	Agilent	BLK-18	155452	07/05/2009	07/04/2010			
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/05/2009	01/04/2010			
Attenuator	Mini-Circuit	BW-S6W5	001	07/05/2009	07/04/2010			
Attenuator	Mini-Circuit	BW-S10W5	001	07/05/2009	07/04/2010			
Attenuator	Mini-Circuit	BW-S20W5	001	07/05/2009	07/04/2010			
Splitter	Agilent	11636B	N/A	07/05/2009	07/04/2010			

5.3. .Test Set-up:



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5.4. 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. (Max peak function, BDR :RBW=1MHz ,VBW >=RBW ,EDR : RBW=1.3MHz ,VBW >=RBW)
- 3. Record the max. reading.
- 4. Repeat above procedures until all frequency measured were complete.

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5.5. Measurement Result:

BDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	3.55	0.00	3.55	0.00226	1
2441.00	3.00	0.00	3.00	0.00200	1
2480.00	2.65	0.00	2.65	0.00184	1

*Note: offset 1dB

BDR mode (C2PC):

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	3.44	0.00	3.44	0.00221	1
2441.00	2.98	0.00	2.98	0.00199	1
2480.00	2.46	0.00	2.46	0.00176	1

*Note: offset 0.4dB

EDR mode:

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	3.54	0.00	3.54	0.00226	1
2441.00	2.67	0.00	2.67	0.00185	1
2480.00	2.21	0.00	2.21	0.00166	1

*Note: offset 1dB

EDR mode (C2PC):

Frequency (MHz)	Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
2402.00	2.91	0.00	2.91	0.00195	1
2441.00	2.42	0.00	2.42	0.00175	1
2480.00	1.81	0.00	1.81	0.00152	1

*Note: offset 0.4dB

Note: Refer to next page for plots.

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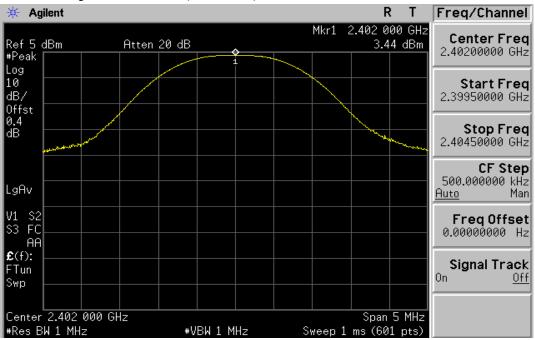


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Class II Permissive Change Test *BDR Mode*

Peak Power Output Data Plot (CH Low)



Peak Power Output Data Plot (CH Mid)



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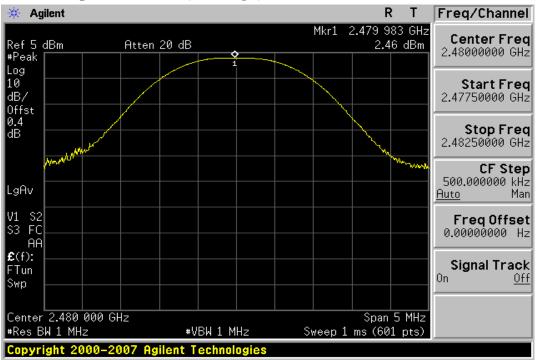
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Peak Power Output Data Plot (CH High)



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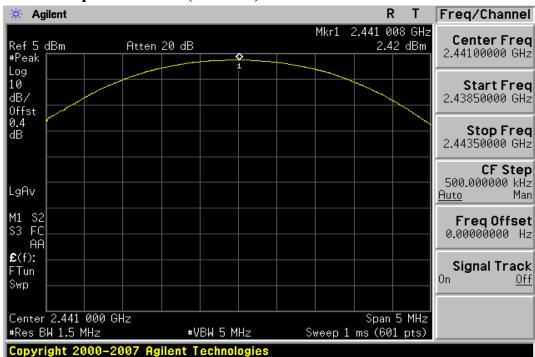
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EDR Mode

Peak Power Output Data Plot (CH Low)



Peak Power Output Data Plot (CH Mid)



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Peak Power Output Data Plot (CH High)



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