Ke Mei Ou Laboratory Co., Ltd.

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Ke Mei Ou Lab Corp.
FEDERAL COMMUNICATIONS COMMISSION
Registration Number: 125782
INDUSTRY CANADA
Registration Number: IC4986

FCC TEST REPORT

Under
FCC 15 Subpart C, Paragraph 15.239

Prepared For :

Prism Technology Limited

Unit 408, 4/F., Kai Fuk Industrial Centre, No. 1 Wang Tung Street, Kowloon Bay,
Kowloon, Hong Kong.

FCC ID: SH7GS-729
EUT: PSP Car Adapter & FM Transmitter
Model: GS-729

September 6, 2005

Report Type: Original Report
Test Engineer: Peter Lin
Test Date: August 30, 2005
Review By:  Apollo Liu / Manager

TABLE OF CONTENTS

1. General Information

1. 1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The KMO Lab does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the KMO Lab.

1. 2 Testing Laboratory

Ke Mei Ou Laboratory Co., Ltd.
7A, Jiaxiangge, Jiahuixincheng, No.3027, Shennan Rd., Futian, Shenzhen, Guangdong, P.R.China.
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Internet: www.kmolab.com

Site on File with the Federal Communications Commission – United Sates
Registration Number: 125782
For 3 & 10 meter OATS

Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC4986
For 3 & 10 meter OATS

1. 3 Details of Applicant

Name : Prism Technology Limited
Address : Unit 408, 4/F., Kai Fuk Industrial Centre, No. 1 Wang Tung Street, Kowloon Bay, Kowloon, Hong Kong.
Contact : Mr. William Lui / Managing Director
Tel : N/A
Fax : N/A

1. 4 Application Details

Date of Receipt of Application	: August 30, 2005
Date of Receipt of Test Item	: August 30, 2005
Date of Test	: August 30~September 6, 2005

1. 5 Test Item

Manufacturer	: King Chuang Tech&Electronic Co., Ltd.
Address	: Block A, Mountain Top Fuyuan Industrial Zone, Jiuwei Village, Xixiang Town, BaoAn District, Shenzhen, China
Brand Name	: N/A
Model No.	: GS-729
Description	: PSP Car Adapter & FM Transmitter

Additional Information

Frequency	: 88.1MHz~107.9MHz
Number of Channels	: N/A
Antenna	: Internal
Power Supply	: DC 12V
Operation Distance	: N/A
Resolution	: N/A

1. 6 Test Standards

FCC 15 Subpart C, Paragraph 15.239

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

2. Technical Test

2. 1 Summary of Test Results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna Requirement	PASS	Complies
FCC Part 15, Paragraph 15.207	Conducted Test	N/A	Owing to the DC operation of EUT, this test item is not performed.
FCC Part 15 Subpart C Paragraph 15.239 Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Subpart C Paragraph 15.239 Limit & Paragraph 15.209	Radiated Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.239 Limit	Measured Bandwidth	PASS	Complies.

2. 2 Antenna Requirement

A. Regulation

FCC section 15.203, An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 Part 15C. The manufacturer may design the unit so that the user can replace a broken antenna, 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.

B. Result

The EUT has a built in antenna which is a short wire solder on the PCB, this is permanently attached antenna and meets the requirements of this section.

3. EUT Modifications

No modification by Ke Mei Ou Laboratory Co., Ltd.

4. Conducted Power Line Test

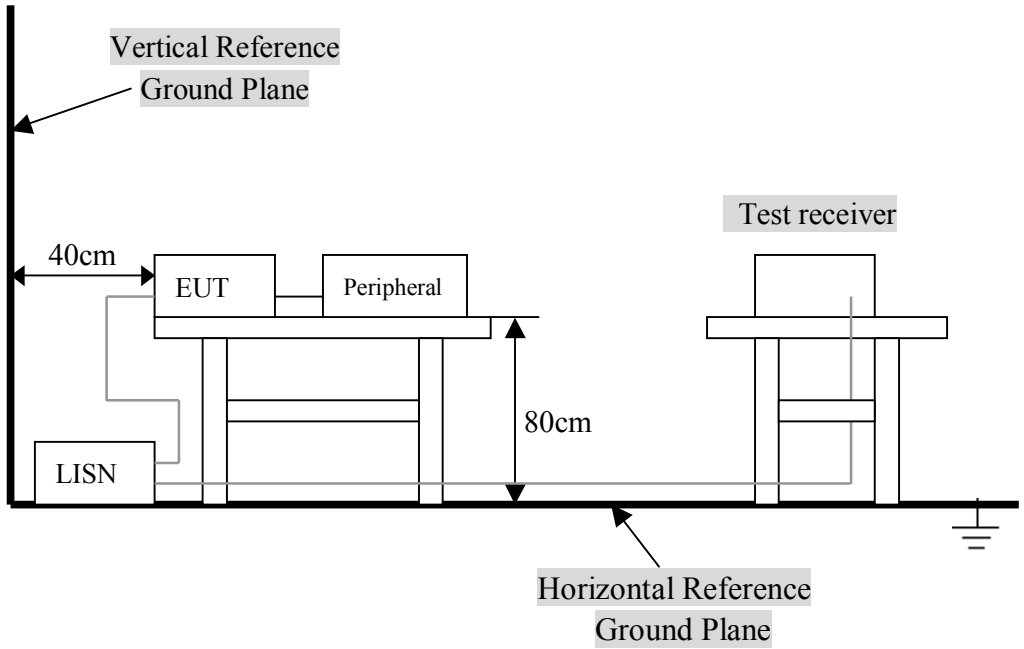
4. 1 Test Equipment

Please refer to Section 9 this report.

4. 2 Test Procedure

The EUT was tested according to ANSI C63.4 - 2001. The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 uHenry as specified by section 5.1 of ANSI C63.4 - 2001. cables and peripherals were moved to find the maximum emission levels for each frequency.

4. 3 Test Setup



For the actual test configuration, Please refer to the related items – Photos of Testing.

4. 4 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. EUT is the transmitter part of a FM transmitter. According to the specifications of the manufacturer, The EUT has been tested as an independent unit together with other necessary accessories or support units.
Three channels were provided to this EUT.

Channel	Frequency (MHz)
Low	88.1
Middle	98.1
High	107.9

Note: The channel low, middle, high were pre-tested. The channel low, worst case one, was chosen for radiated emission test. Test with a PSP as the sound source for the EUT.
The following support units or accessories were used to form a representative test configuration during the tests.

A. EUT

Device	Manufacturer	Model #	FCC ID
PSP Car Adapter & FM Transmitter	Prism Technology Limited	GS-729	SH7GS-729

B. Internal Devices

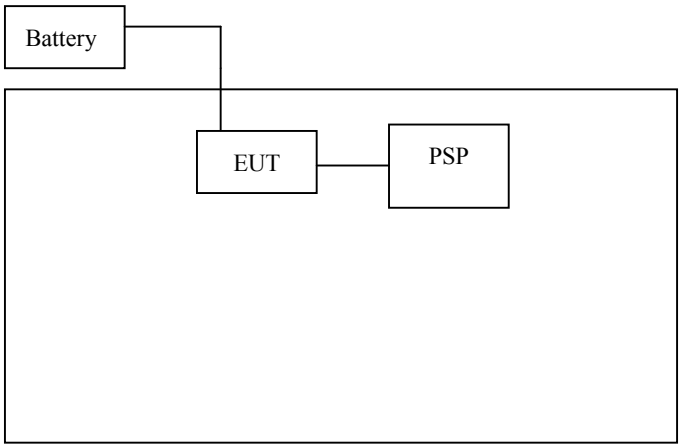
Device	Manufacturer	Model #	FCCID / DoC
N/A			

C. Peripherals

Device	Manufacturer	Model # Serial #	FCC ID/ DoC	Cable
PSP	Sony	N/A	N/A	N/A
N/A				
N/A				

4. 5 EUT Operating Condition

Operating condition is according to ANSI C63.4 - 2001.
A. Setup the EUT and simulators as shown on follow.
B. Enable RF signal and confirm EUT active.
C. Modulate output capacity of EUT up to specification.



4. 6 Conducted Power Line Emission Limits

FCC Part 15 Paragraph 15.207 (dBuV)		
Frequency Range (MHz)	**Class A QP/AV**	**Class B QP/AV**
0.15 – 0.5	79/66	66-56/56-46
0.5 – 5.0	73/60	56/46
5.0 - 30	73/60	60/50

NOTE ：In the above table, the tighter limit applies at the band edges.

4. 7 Conducted Power Line Test Result

Owing to the DC operation of EUT, this test item is not performed.

5. Radiated Emission Test

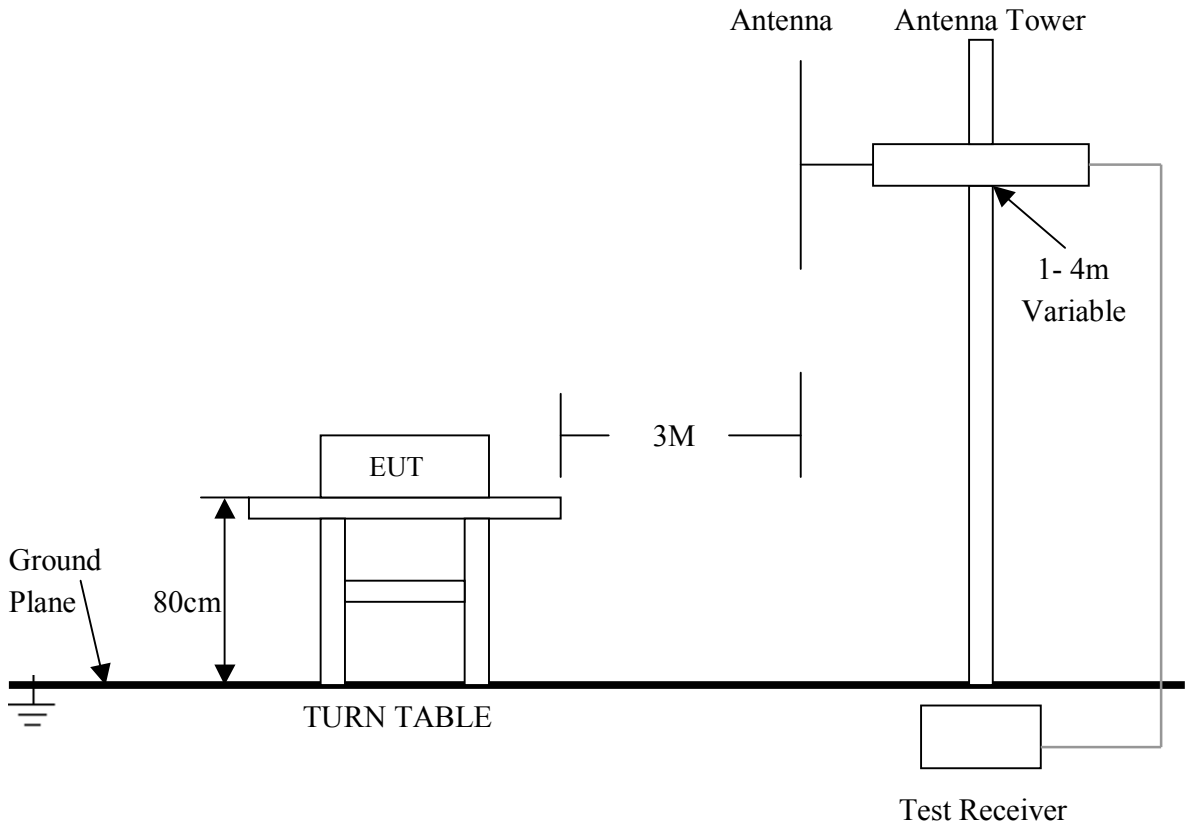
5. 1 Test Equipment

Please refer to Section 9 this report.

5. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2001. The radiated test was performed at Ke Mei Ou Laboratory. This site is on file with the FCC laboratory division, Registration No. 125782.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
6. The antenna polarization : Vertical polarization and Horizontal polarization.

5. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing.

5. 4 Configuration of The EUT

Same as section 4 . 4 of this report

5. 5 EUT Operating Condition

Same as section 4 . 5 of this report.

5. 6 Radiated Emission Limit

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

A. FCC Part 15 Subpart C Paragraph 15.239 Limit

According to 15.239 the field strength of emission from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)	
	Peak (dBuV/m)	Average (dBuV/m)
88 to 108	67.96	47.96

B. Frequencies in restricted band are complied to limit on Paragraph 15.209.

Frequency (MHz)	Distance (m)	Field Strength (microvolts/m)
0.009 - 0.490	300	2400/F(kHz)
0.490 - 1.705	30	24000/F(kHz)
1.705 – 30.0	30	30
30 - 88	3	100
88 - 216	3	150
216 - 960	3	200
ABOVE 960	3	500

Note: As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

5. 7 Radiated Emission Test Result

A. Fundamental Radiated Emission Data

Product : PSP Car Adapter & FM Transmitter
Test Item : Fundamental Radiated Emission Data
Test Voltage : DC 12V (Power by Battery)
Test Result : **PASS**
Test Mode : Channel Low
Temperature : 25 ℃
Humidity : 56%RH

Freq. (MHz)	Emission (dBuV/m) Peak	Average	HORIZ / VERT	Limits (dBuV/m) Peak	Average	Margin (dB) Peak	Average
88.100	42.35	39.68	HORIZ	67.96	47.96	-25.61	-8.28
88.100	33.61	22.46	VERT	67.96	47.96	-34.35	-25.50

Note: (1) PK= Peak, AV=Average.
(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : PSP Car Adapter & FM Transmitter
Test Item : Fundamental Radiated Emission Data
Test Voltage : DC 3.3V (Power by iPod)
Test Result : **PASS**
Test Mode : Channel Middle
Temperature : 25 ℃
Humidity : 56%RH

Freq. (MHz)	Emission (dBuV/m) Peak	Average	HORIZ / VERT	Limits (dBuV/m) Peak	Average	Margin (dB) Peak	Average
98.100	37.16	33.10	HORIZ	67.96	47.96	-30.80	-14.86
98.100	47.04	45.53	VERT	67.96	47.96	-20.92	-2.43

Note: (1) PK= Peak, AV=Average.
(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

Product : PSP Car Adapter & FM Transmitter
Test Item : Fundamental Radiated Emission Data
Test Voltage : DC 12V (Power by Battery)
Test Result : **PASS**
Test Mode : Channel High
Temperature : 25 ℃
Humidity : 56%RH

Freq. (MHz)	Emission (dBuV/m) Peak	Average	HORIZ / VERT	Limits (dBuV/m) Peak	Average	Margin (dB) Peak	Average
107.900	49.93	46.58	HORIZ	67.96	47.96	-18.03	-1.38
107.900	46.17	44.27	VERT	67.96	47.96	-21.79	-3.69

Note: (1) PK= Peak, AV=Average.
(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

B. General Radiated Emission Data & Harmonics Radiated Emission Data

Product : PSP Car Adapter & FM Transmitter
Test Item : General Radiated Emission Data & Harmonics Radiated Emission Data
Test Voltage : DC 12V (Power by Battery)
Test Result : **PASS**
Test Mode : Channel Low
Temperature : 25 ℃
Humidity : 56%RH

Freq. (MHz)	Emission (dBuV/m)	HORIZ / VERT	Limits (dBuV/m)	Margin (dB)
38.840	28.33	HORIZ	40.0	-11.67
41.040	28.81	VERT	40.0	-11.19
72.920	32.02	HORIZ	40.0	-7.98
72.920	33.47	HORIZ	40.0	-6.53
176.160	27.97	VERT	43.5	-15.53
176.160	28.64	HORIZ	43.5	-14.86

Note: (1) All Reading Levels below 1GHz are Quasi-Peak, above are peak and average value.
(2) Emission Level = Reading Level + Probe Factor + Cable Loss.

6. Band Edge

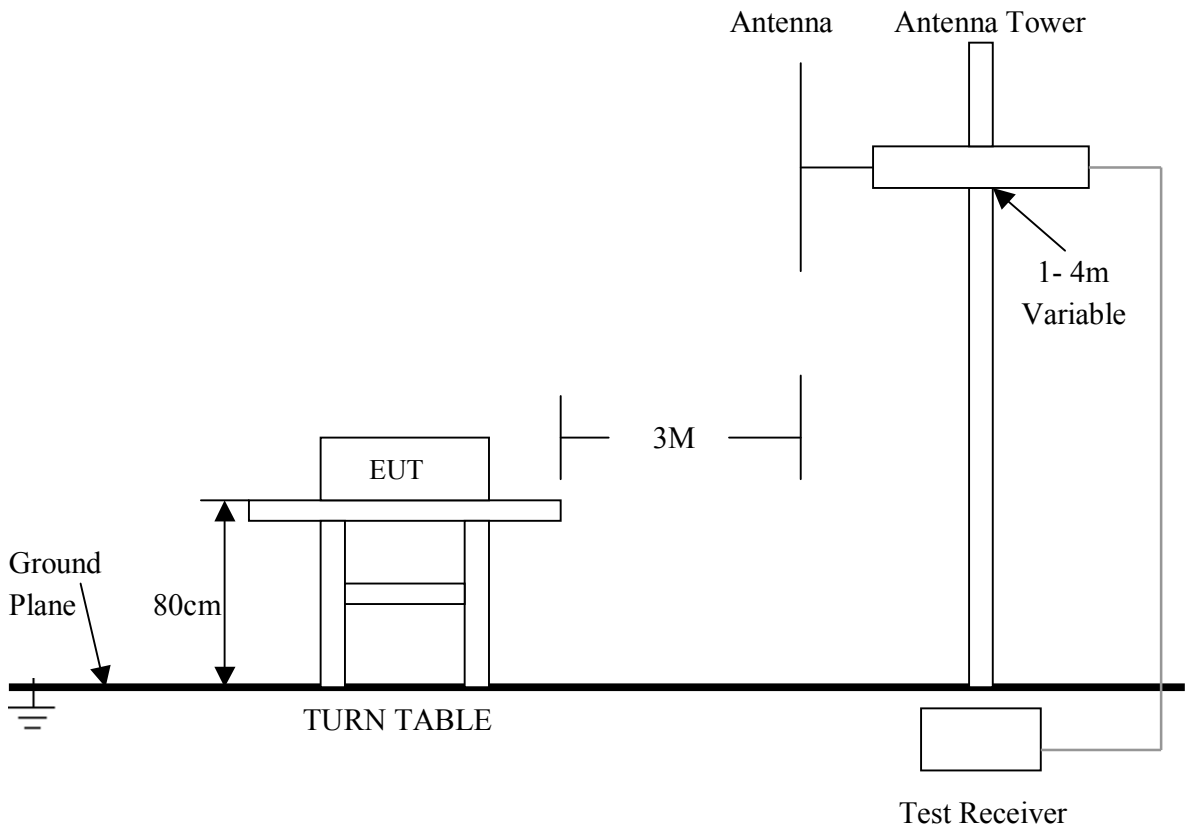
6. 1 Test Equipment

Please refer to Section 9 this report.

6. 2 Test Procedure

1. The EUT was tested according to ANSI C63.4 - 2001. The radiated test was performed at Ke Mei Ou Laboratory. This site is on file with the FCC laboratory division, Registration No. 125782.
2. The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.
3. The frequency spectrum from 30 MHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 KHz. All readings are above 1 GHz , peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
4. The antenna high were varied from 1 m to 4 m high to find the maximum emission for each frequency.
5. The additional latch filter below 1GHz was used to measure the level of harmonics radiated emission during field strength of harmonics measurement. The bandwidth below 30MHz setting on the field strength meter is 10 kHz, above 1GHz are 1 MHz.
6. Maximizing procedure was performed on the highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "**QP**" in the data table.
7. The antenna polarization ： Vertical polarization and horizontal polarization.

6. 3 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

6. 4 Configuration of The EUT

Same as section 4 . 4 of this report

6. 5 EUT Operating Condition

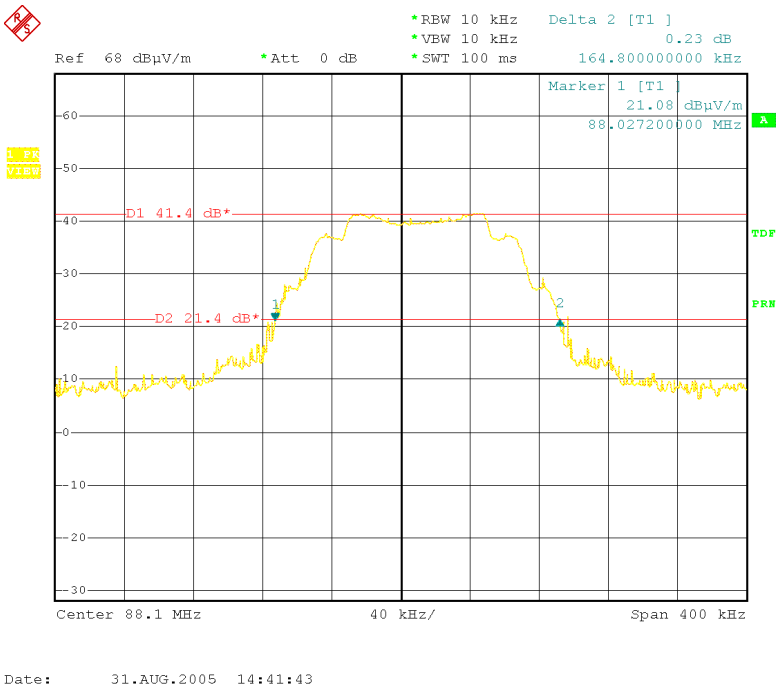
Same as section 4 . 5 of this report.

6. 6 Band Edge FCC 15.239 Limit

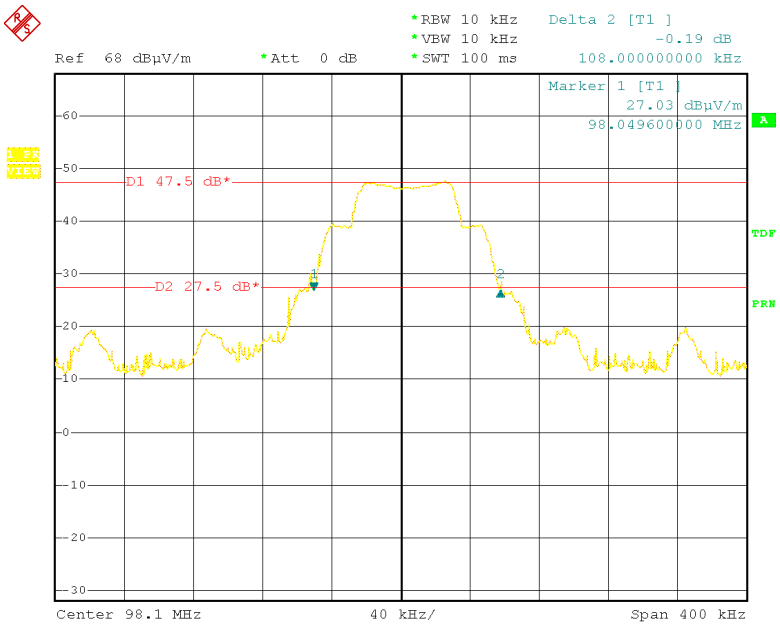
Emission from the intentional radiator shall be confined within a bands 200kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88 to 108 MHz.

6. 7 Band Edge Test Result

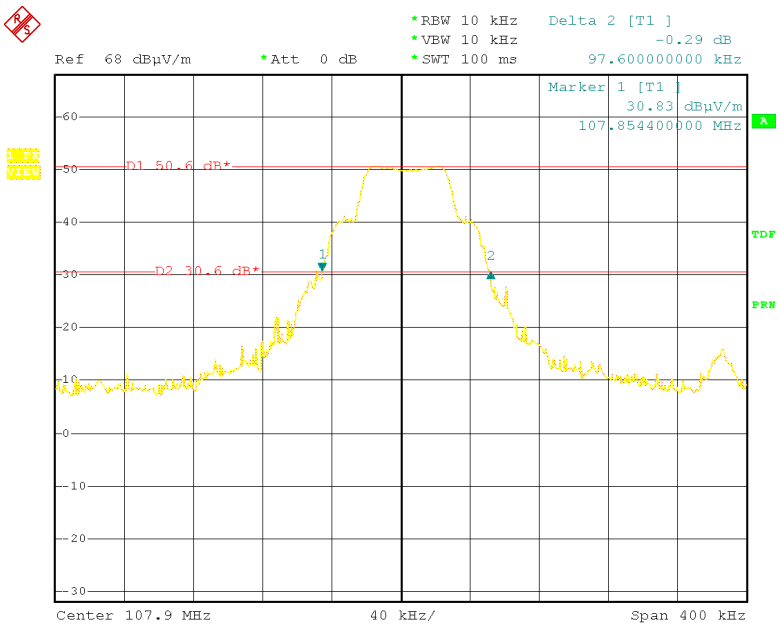
Product	: PSP Car Adapter & FM Transmitter	Test Mode	: Channel Low
Test Item	: Band Edge Data	Temperature	: 25 ℃
Test Voltage	: DC 12V (Power by Battery)	Humidity	: 56%RH
Test Result	: **PASS**		



Product	: PSP Car Adapter & FM Transmitter	Test Mode	: Channel Middle
Test Item	: Band Edge Data	Temperature	: 25 ℃
Test Voltage	: DC 12V (Power by Battery)	Humidity	: 56%RH
Test Result	: **PASS**		



Product	: PSP Car Adapter & FM Transmitter	Test Mode	: Channel High
Test Item	: Band Edge Data	Temperature	: 25 ℃
Test Voltage	: DC 12V (Power by Battery)	Humidity	: 56%RH
Test Result	: **PASS**		



Note: (1) The field strength of any emissions which appear outside of this band shall not exceed the general radiated emission limits in Section 15.209.
(2) The average measurement was not performed when the peak measured data under the limit of average detection.

7. Photos of Testing

7. 1 EUT Test Photographs

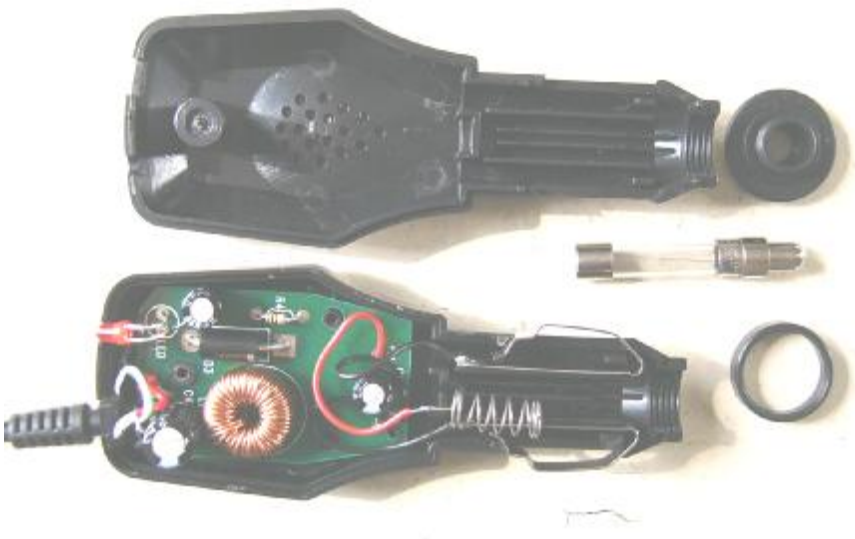
Radiated emission test view

7. 2 EUT Detailed Photographs

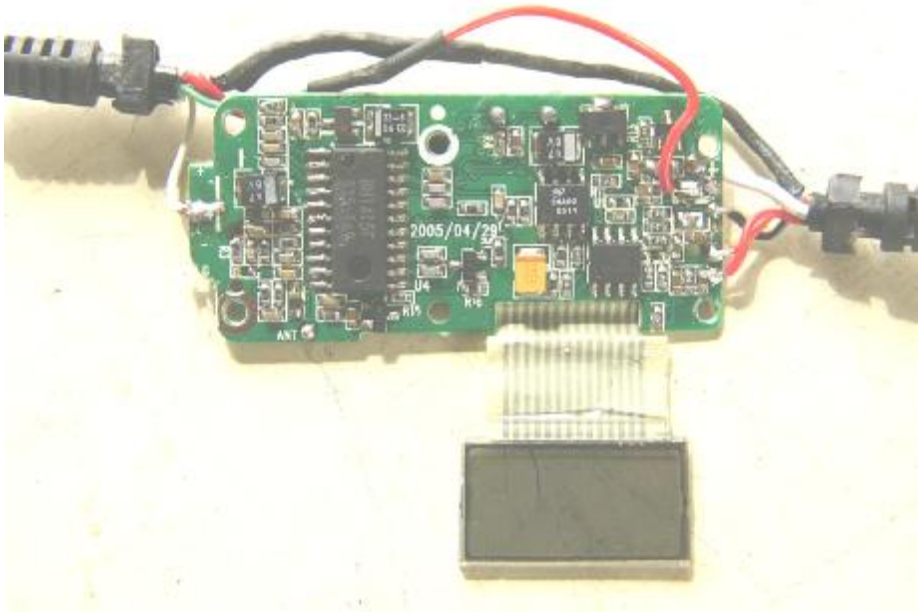
EUT top view

EUT bottom view

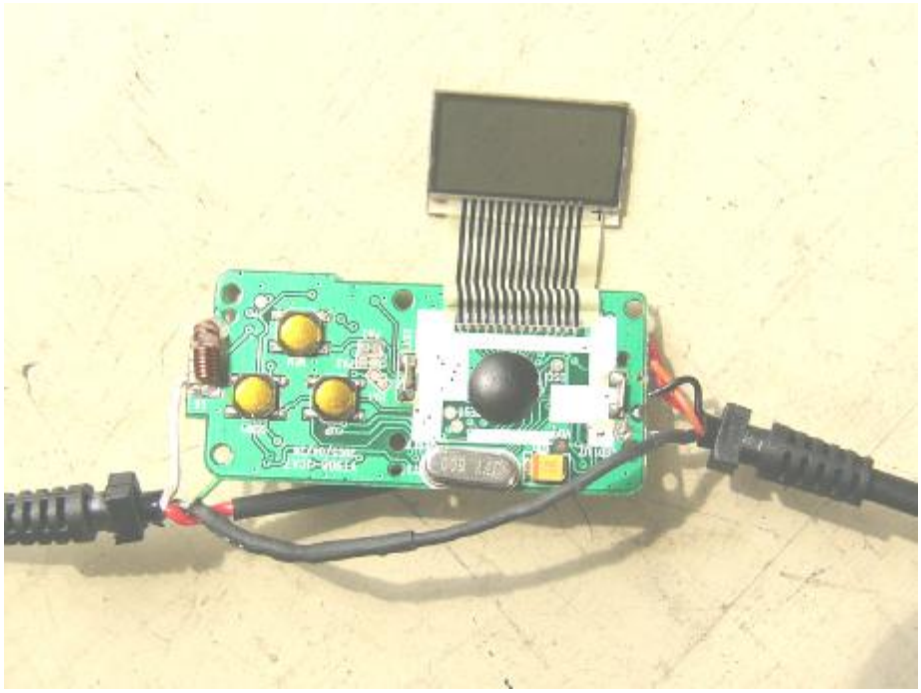
EUT inside whole view

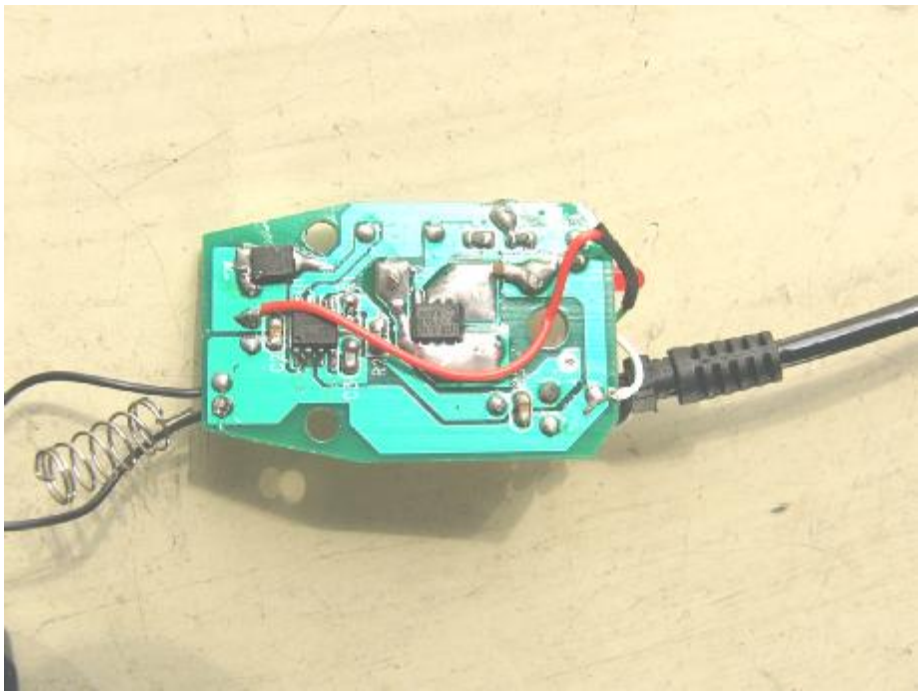


Main board component side



Main board solder side





8. FCC ID Label

FCC ID: SH7GS-729

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

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

Proposed Label Location on EUT

EUT Bottom View/Proposed FCC ID Label Location

9. Test Equipment

The following test equipments were used during the radiated & conducted emission test:

Equipment/ Facilities	Manufacturer	Model #	Serial No.	Date of Cal.	Due Date
Turntable	KMO	KSZ001T	200306	NCR	NCR
Antenna Tower	KMO	KSZ002AT	200307	NCR	NCR
OATS	KMO	KSZSITE001	N/A	July 06, 2004	July 06, 2005
EMI Test Receiver	Rohde & Schwarz	ESPI3	100180	Oct.18, 2004	Oct.18, 2005
Signal Generator	Rohde & Schwarz	SMT03	100059	Feb.01, 2005	Feb.01, 2006
Signal Generator	FLUKE	PM5418+Y/C	LO747012	Feb 01, 2005	Feb 01, 2006
Signal Generator	FLUKE	PM5418TX	LO738007	Feb 01, 2005	Feb 01, 2006
Biconical Antenna	Rohde & Schwarz	HK116	EMC0502	Dec. 14,2004	Dec. 14,2005
Bilog Antenna	Chase	CBL6111C	2576	Feb.01, 2005	Feb.01, 2006
Ultra Broadband Antenna	Rohde & Schwarz	HL 562	100110	June.05, 2004	June.05, 2005
AMN	Rohde & Schwarz	ESH3-Z5	100196	Oct. 23,2004	Oct. 23, 2005
AMN	Rohde & Schwarz	ESH3-Z5	100197	Oct. 23,2004	Oct. 23, 2005
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	N/A	N/A	N/A
Absorbing Clamp	Rohde & Schwarz	MDS-21	N/A	Oct. 29,2004	Oct. 29,2005
KMO Shielded Room	KMO	KMO-001	N/A	N/A	N/A
EMI Test Receiver	Rohde & Schwarz	ESCS30	100003	Feb. 27, 2005	Feb.27, 2006
AMN	Rohde & Schwarz	ESH3-Z5	100002	Feb. 01, 2005	Feb.01, 2006
LISN	Kyoritsu	KNW-407	8-1441-8	Feb. 23, 2005	Feb.23, 2006
EMI Test Receiver	Rohde & Schwarz	ESI26	838786/013	Feb. 01, 2005	Feb.01, 2006
Bilog Antenna	Chase	CBL6112B	2591	Feb. 01, 2005	Feb.01, 2006
Horn Antenna	Rohde & Schwarz	HF906	100014	Feb. 01, 2005	Feb.01, 2006
Power Meter	Rohde & Schwarz	NRVD	100041	Feb. 01, 2005	Feb.01, 2006
Radio Communication Test Set	Rohde & Schwarz	CMS 54	846621/024	Feb 01, 2005	Feb 01, 2006
Modulation Analyzer	Hewlett-Packard	8901B	2303A00362	Feb 01, 2005	Feb 01, 2006
Temperature Chamber	TABAI	PSL-4GTW	N/A	Feb 06,2005	Feb 06, 2006
3m Semi-Anechoic Chamber	Albatross Projects	9mX6mX6m	N/A	Feb. 01, 2005	Feb.01, 2006