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Timeway

LABORATORIES

Report No:

FCC 0508100

File reference No:

2005-09-06

Applicant: Popspa (HK) Limited

Product: FM Transmitter

Model No: PT-200, PT-201

Trademark: N/A

Test Standards: FCC Part 15 Subpart C, Paragraph 15.239

Test result:

It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.239 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: September, 06,2005

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD

5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.

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Test Report Conclusion

Content

1.0	General Details	3
1.1	Test Lab Details	3
1.2	Applicant Details	3
1.3	Description of EUT	3
1.4	Submitted Sample	3
1.5	Test Duration	4
1.6	Test Uncertainty	4
1.7	Test By	4
2.0	List of Measurement Equipment	4
3.0	Technical Details	6
3.1	Summary of Test Results	6
3.2	Test Standards	6
4.0	EUT Modification	6
5.0	Power Line Conducted Emission Test	7
5.1	Schematics of the Test	7
5.2	Test Method and Test Procedure	7
5.3	Configuration of the EUT	7
5.4	EUT Operating Condition	7
5.5	Conducted Emission Limit	7
5.6	Test Result	7
6.0	Radiated Emission test	13
6.1	Test Method and Test Procedure	13
6.2	Configuration of the EUT	13
6.3	EUT Operation Condition	13
6.4	Radiated Emission Limit	14
6.5	Test Result	14
7.0	Band Edge	16
7.1	Test Method and Test Procedure	16
7.2	Radiated Test Setup	16
7.3	Configuration of the EUT	16
7.4	EUT Operating Condition	16
7.5	Band Edge Limit	17
7.6	Band Edge Test Result	18
8.0	FCC ID Label	20
9.0	Photo of Test Setup and EUT View	20

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO LTD
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.
Telephone: (755) 83448688
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Site on File with the Federal Communications Commission – United States

Registration Number: 125782

For 3m semi-Anechoic Chamber & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205

For 3m semi-Anechoic Chamber & 10 m OATS

1.2 Applicant Details

Applicant: Popspa (HK) Limited
Address: Room 1308, Nanyang Plaza, 57 Hung To Road, Kwun Tong, Kowloon, Hongkong
Telephone: 0086-755-61357218
Fax: 0086-755-61357215

1.3 Description of EUT

Product: FM Transmitter
Manufacturer: Popspa (HK) Limited
Brand Name: N/A
Model Number: PT-200
Additional Model Name: PT-201
Additional Trade Name: N/A

*Note: PT-201 have no speaker

Rating: 12V DC input or two 7# batteries
Operation Frequency: 88.1-107.9MHz
Number of Channel: 100
Channel Spacing: 0.2MHz
Type of Modulation: Frequency Modulation
Antenna Designation: A permanent fixed antenna, which is built-in, designed as an indispensable part of the EUT.

1.4 Submitted Sample

1 Sample

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1.5 Test Duration

2005-08-20 to 2005-08-30

1.6 Test Uncertainty

Conducted Emissions Uncertainty = $\pm 3.0\text{dB}$

Radiated Emissions Uncertainty = $\pm 6.0\text{dB}$

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESD Simulator	EM TEST	DITO	0404-24	2005-08-13	2005-08-12
Continuous Wave Simulator	EM TEST	CWS 500C	0407-05	2004-12-15	2005-12-15
Ultra Compact Simulator	EM TEST	UCS 500 M4	0304-42	2005-08-13	2006-08-12
Harmonic	California Instruments	PACS-1	72305	2005-08-13	2006-08-12
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2004-12-02	2005-12-02
Absorbing Clamp	ROHDE&SCHWARZ	MDS-21	100126	2004-12-02	2005-12-02
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2004-12-02	2005-12-02
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2004-12-02	2005-12-02
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2004-12-02	2005-12-02
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2005-03-31	2006-03-31
4-WIRE ISN	ROHDE&SCHWARZ	ENY 41	830663/044	2005-02-24	2006-02-24
GG ENY22 Double 2-Wire ISN	ROHDE&SCHWARZ	ENY22	83066/016	2005-02-24	2006-02-24
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2005-02-24	2006-02-24

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System Controller	CT	SC100	-	-	-
Printer	EPSON	PHOTO EX3	CFNH234850	2005-02-24	2006-02-24
FM-AM Signal Generator	JUNG.JIN	SG-150M	389911177	2005-02-24	2006-02-24
Color TV Pattern Generator	PHILIPS	PM5418	LO621747	2005-02-24	2006-02-24
Computer	IBM	8434	1S8434KCE99BLXLO *	-	-
Oscillator	KENWOOD	AG-203D	3070002	2005-02-24	2006-02-24
Spectrum Analyzer	HAMEG	HM5012	-	-	-
Power Supply	LW	APS1502	-	-	-
5K VA AC Power Source	California Instruments	5001iX	56060	2005-02-24	2006-02-24
CDN	EM TEST	CDN M2/M3	-	2005-02-24	2006-02-24
Attenuation	EM TEST	ATT6/75	-	2005-02-24	2006-02-24
Resistance	EM TEST	R100	-	-	-
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2005-02-24	2006-02-24
Inductive Components	EM TEST	MC2630	-	2005-02-24	2006-02-24
Antenna	EM TEST	MS100	-	2005-02-24	2006-02-24
Signal Generator	ROHDE&SCHWARZ	SMT03	100029	2005-02-01	2006-02-01
Power Amplifier	AR	150W1000	300999	2005-02-01	2006-02-01
Field probe	Holaday	HI-6005	105152	2005-02-01	2006-02-01
Bilog Antenna	Chase	CBL6111C	2576	2005-02-01	2006-02-01
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2005-02-01	2006-02-01
3m Semi-Anechoic Chamber	Albatross Projects	7m*3m*3m	N/A	2005-02-01	2006-02-01

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.207	Conducted Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.239 Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Meets Class B Limit
Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the Radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).	Band Edge Test	PASS	The field strength of any Emissions, which appear Outside of this band, shall not exceed the general Radiated emission limits in Section 15.209.

3.2 Test Standards

FCC Part 15 Subpart C, Paragraph 15.239

4.0 EUT Modification

No modification by Shenzhen Timeway Technology Consulting Co.,Ltd

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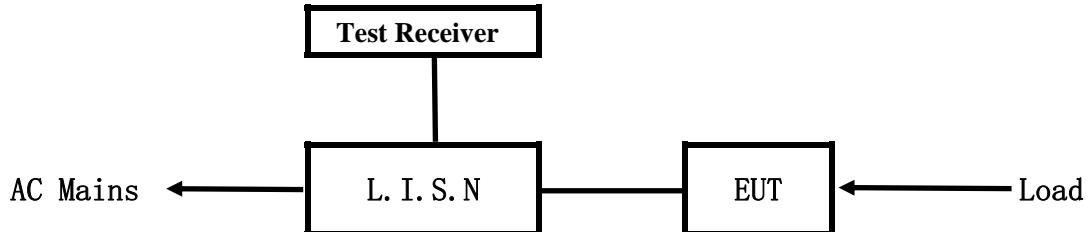
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

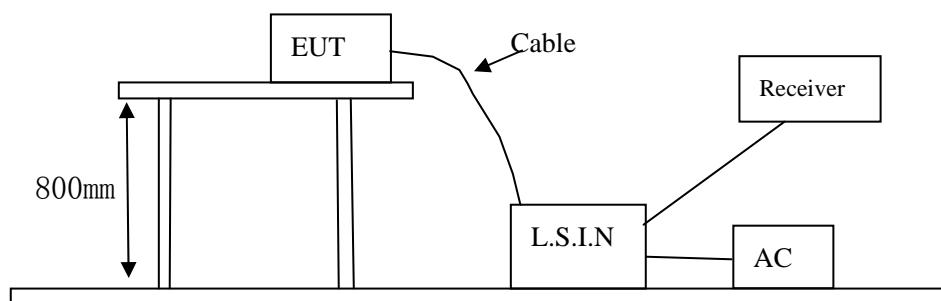


EUT: Equipment Under Test

5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2001. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2001.

Block diagram of Test setup



5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2001. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

Note: EUT can be powered by vehicle with 12V electrical system or batteries. During radiated emission test, EUT power by a regulated DC power supply because it produced more emission at this time.

A. EUT

Device	Manufacturer	Model	FCC ID
FM Transmitter	Popspa (HK) Limited	PT-200	SBTFMTRANSMIT
FM Transmitter	Popspa (HK) Limited	PT-201	SBTFMTRANSMIT

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Oscillator	Kenwood	AG-203D	N/A	Audio cable 1.2m un-shielded
Regulated DC power supply	LWDQGS	APS-1502	N/A	N/A

5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2001.

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

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Class A Limits (dB μ V)		Class B Limits (dB μ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. *Decreasing linearly with logarithm of frequency.
2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

***Note: Owing to DC operation of EUT, this test item is not performed**

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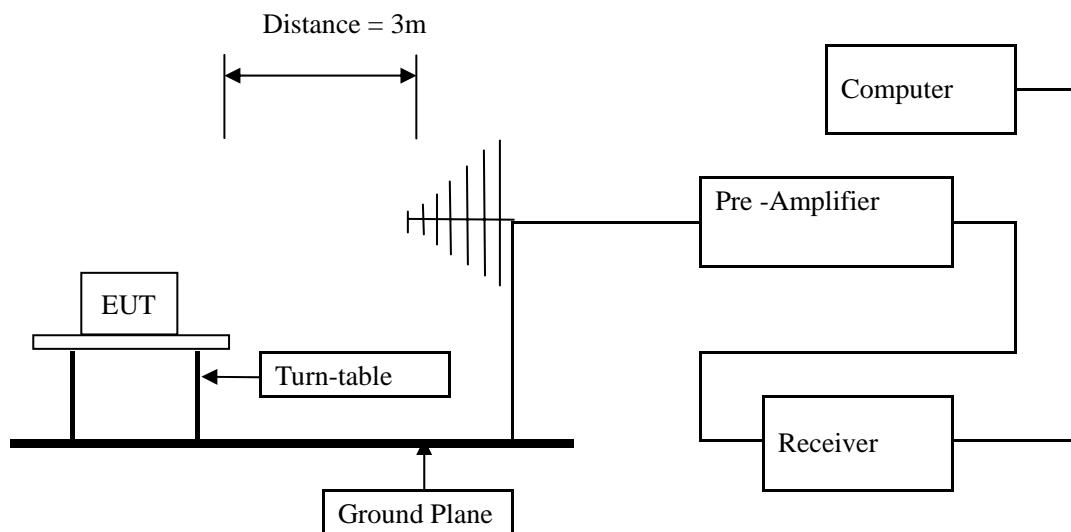


6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 -2001. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.4-2001.
- (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.

Block diagram of Test setup



6.2 Configuration of The EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

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6.4 Radiated Emission Limit

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

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)	
	uV/m	dBuV/m
88 to 108	250	47.96

Note:

1. RF Field Strength (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

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

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

Note:

1. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

6.5 Test result

A Fundamental Radiated Emission Data

Product:	FM Transmitter	Test Mode:	88.1MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
88.120	45.15/42.46	Horizontal	67.96/47.96	-22.81/-5.5
88.120	48.23/45.95	Vertical	67.96/47.96	-19.73/-2.01

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Product:	FM Transmitter	Test Mode:	98.1MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
98.104	46.74/44.10	Horizontal	67.96/47.96	-21.22/-3.86
98.104	48.30/46.31	Vertical	67.96/47.96	-19.66/-1.65

Product:	FM Transmitter	Test Mode:	107.9MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
107.902	48.64/46.57	Horizontal	67.96/47.96	-19.32/-1.39
107.902	49.97/47.61	Vertical	67.96/47.96	-17.99/-0.35

Note:

- (1) PK= Peak, AV= Average
- (2) Emission Level = Reading Level + Probe Factor + Cable Loss.
- (3) Margin=Emission-Limits
- (4) According to section 15.35(b), the peak limit is 20dB higher than the average limit

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B. General Radiated Emission Data and Harmonics Radiated Emission Data

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

EUT set Condition: 88.1MHz

Results: Pass

Please refer to following diagram for individual

Note: ***The test data is less than the limit value for 20dB at least, no necessary to take down the records.**

EUT set Condition: Speaker Mode

Results: Pass

Please refer to following diagram for individual

Note: ***The test data is less than the limit value for 20dB at least, no necessary to take down the records.**

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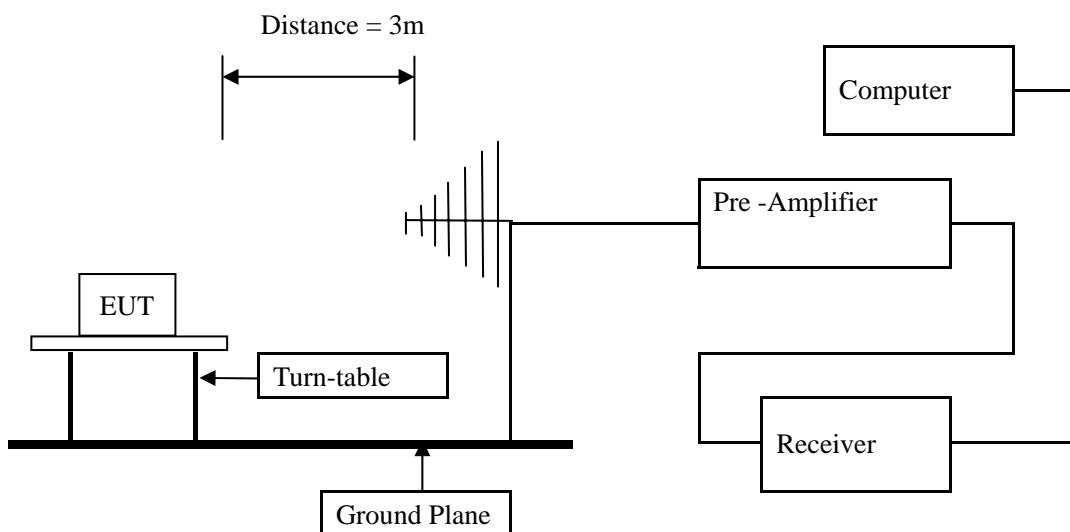


7. Band Edge

7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2001. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) 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.
- (3) The antenna height is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (4) 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.
- (5) The antenna polarization : Vertical polarization and Horizontal polarization.

7.2 Radiated Test Setup



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

7.3 Configuration of The EUT

Same as section 5.3 of this report

7.4 EUT Operating Condition

Same as section 5.3 of this report.

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7.5 Band Edge Limit

- (1) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.
- (2) The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. 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.
- (3) Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

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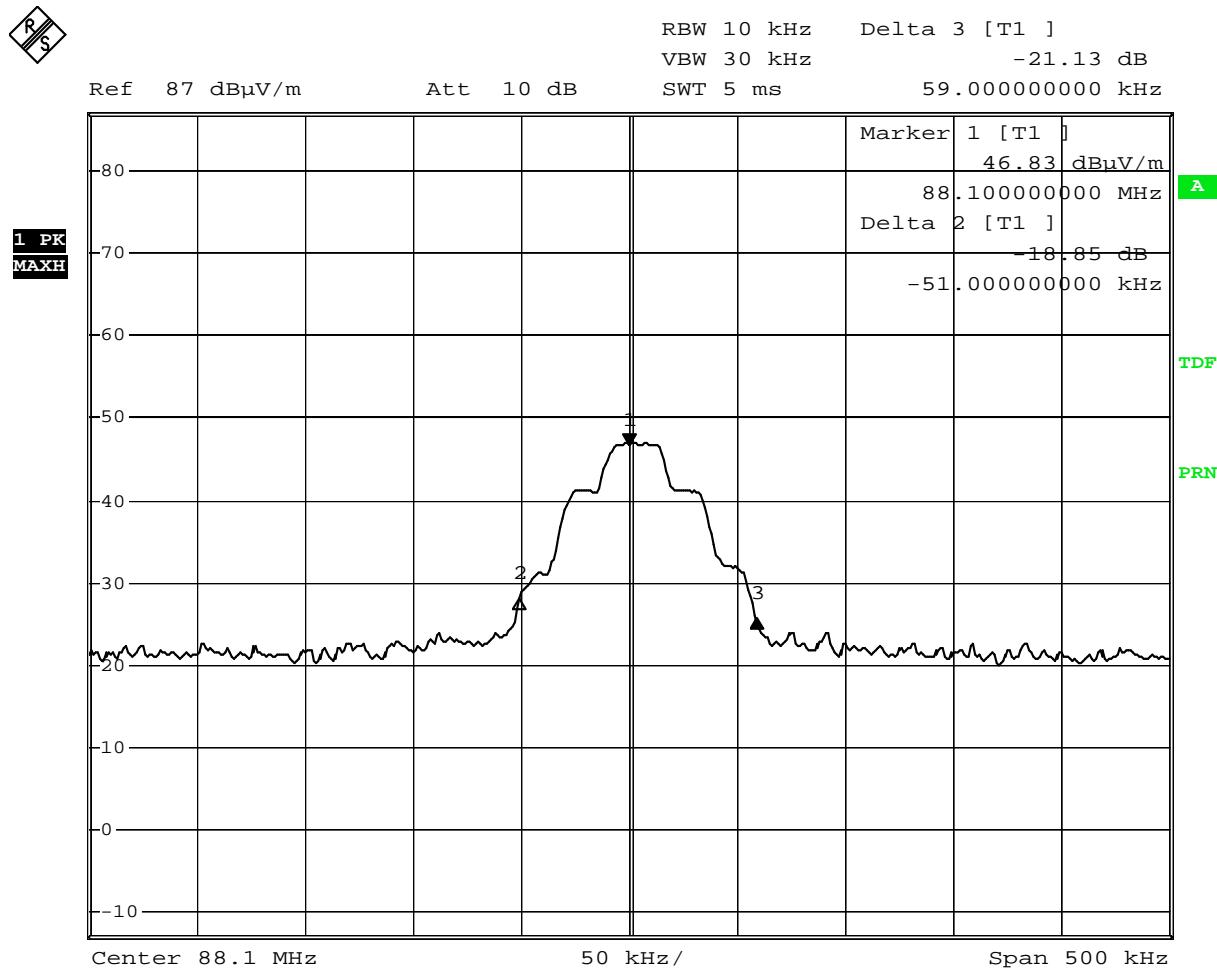
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7.6 Band Edge Test Result

Product:	FM Transmitter	Test Mode:	88.1MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Test Figure:



Date: 29.AUG.2005 19:31:04

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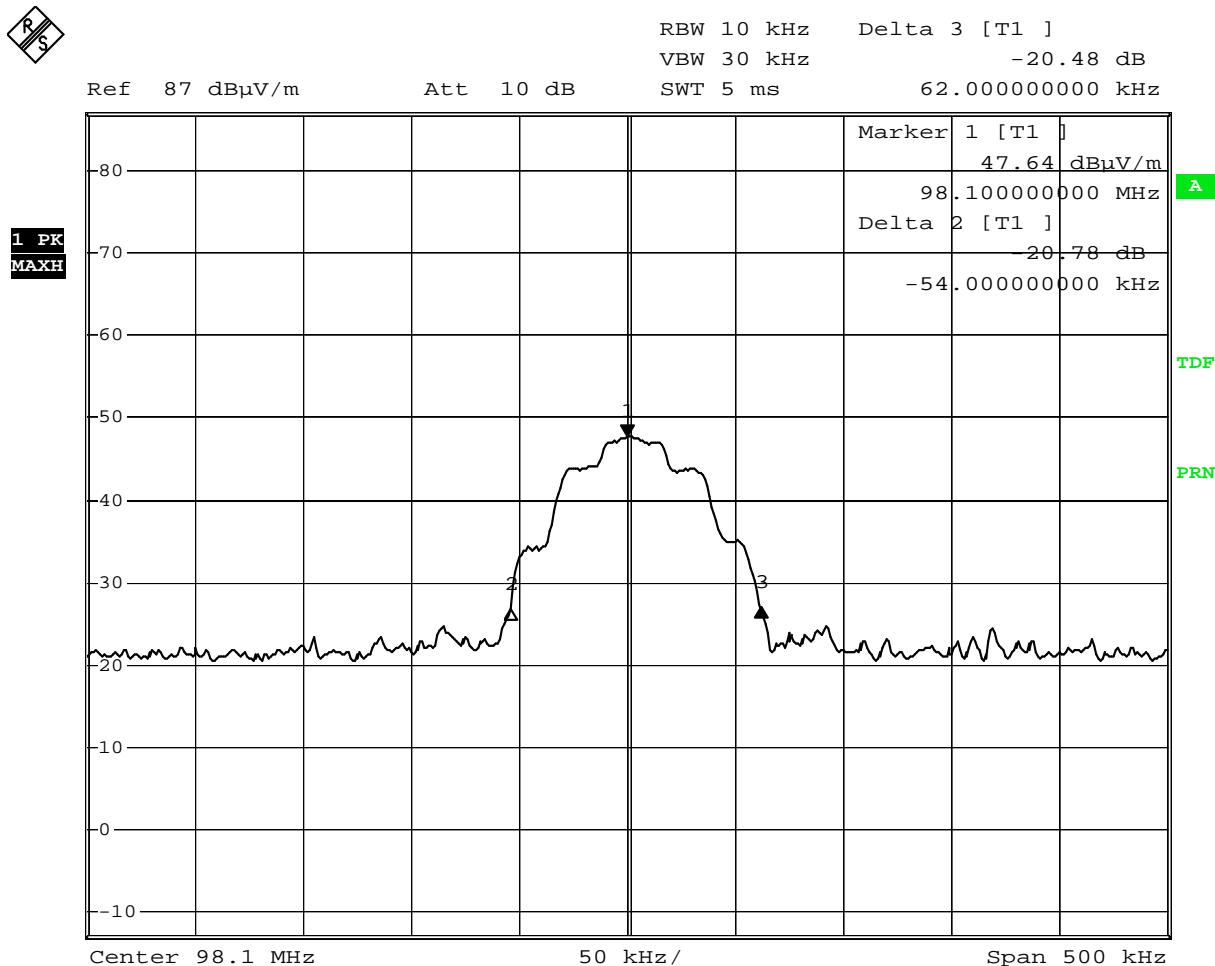
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Product:	FM Transmitter	Test Mode:	98.1MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Test Figure:



Date: 29.AUG.2005 19:43:35

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.
 (3) The Uncertainty of conducted emission=±20kHz

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

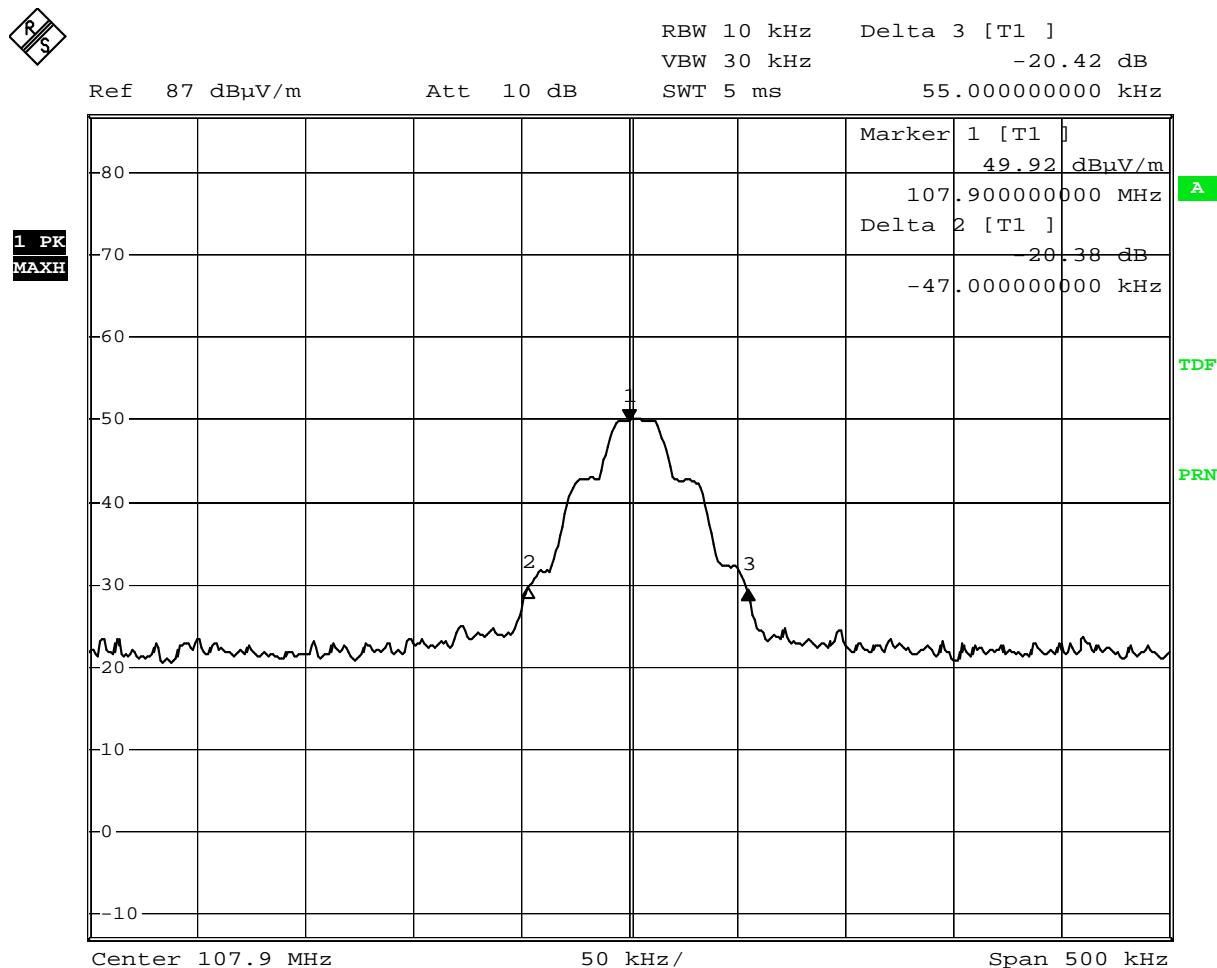
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Product:	FM Transmitter	Test Mode:	107.9MHz
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	12V	Humidity:	56%
Test Result:	Pass		

Test Figure:



Date: 29.AUG.2005 19:33:54

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.
 (3) The Uncertainty of conducted emission=±20kHz

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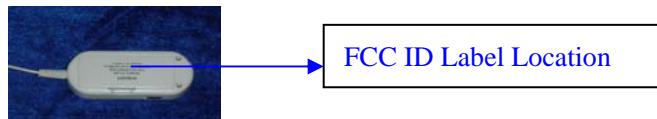
8.0 FCC ID Label

FCC ID: SBTFMTRANSMIT

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

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

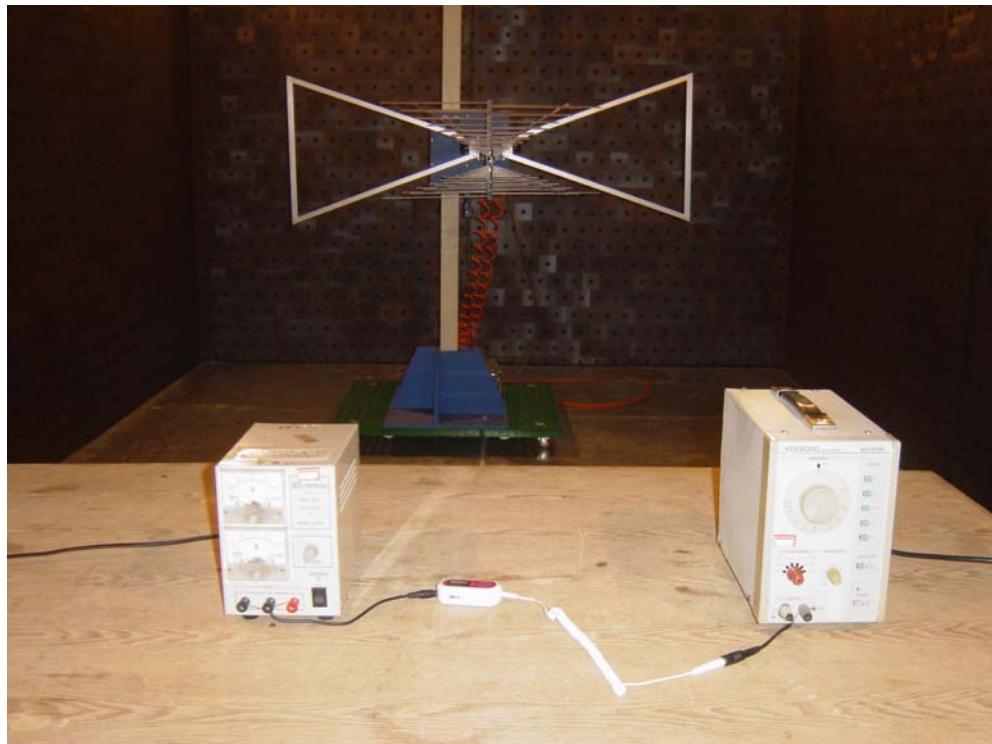
Mark Location:



9.0 Photo of testing

9.1 Conducted test View—N/A

9.2 Radiated emission test view



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9.3 Photo for the EUT

Outside View



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Outside View



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Outside View



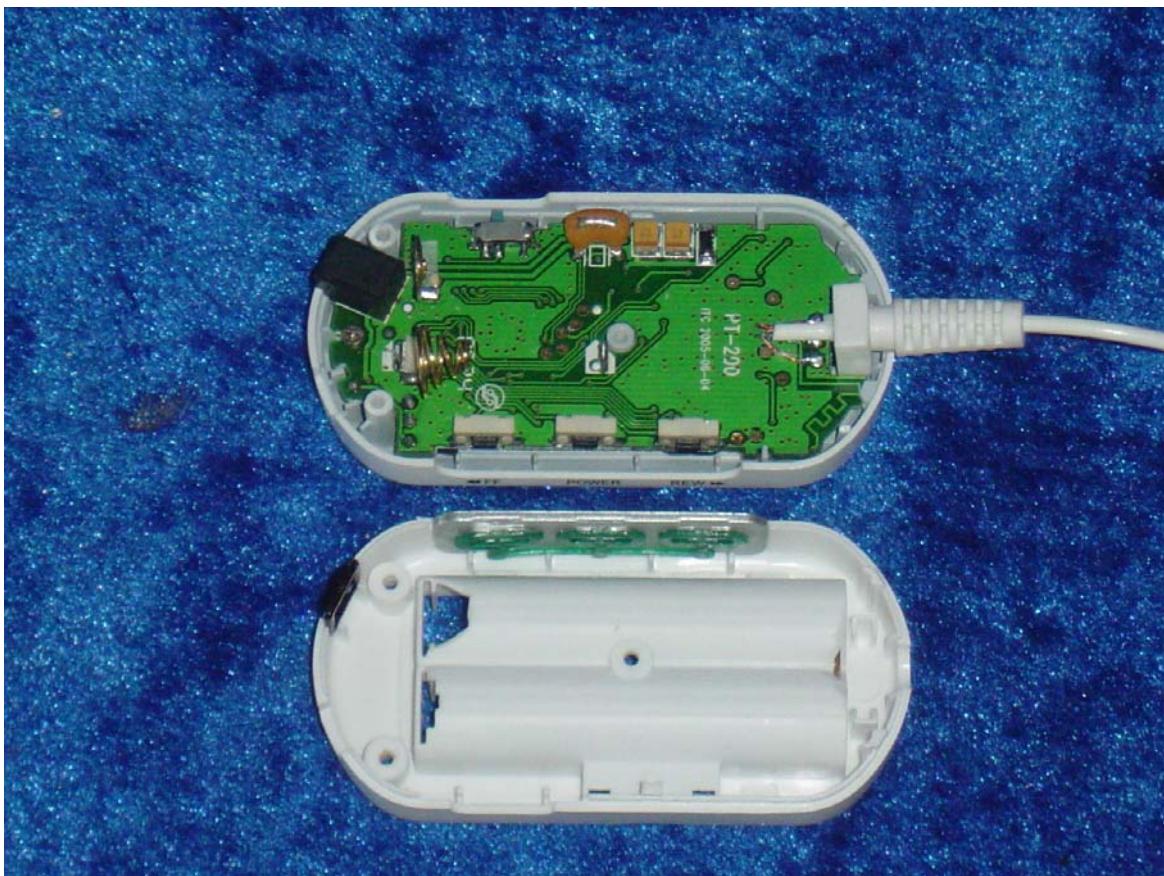
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Interior View



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-End of the report-

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