

APPLICATION CERTIFICATION FCC Part 15B
On Behalf of
KOBIAN CANADA INC.

Hipstreet FM Transmitter
Model No.: HS-FMT172LCD

FCC ID: YH5-HSFMT172

Prepared for : KOBIAN CANADA INC.
Address : 560 Denison Street, Unit#5, Markham, Ontario L3R 2M8,
Canada
Prepared by : ACCURATE TECHNOLOGY CO. LTD
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
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Report Number : ATE20122590
Date of Test : Nov 13- 21, 2012
Date of Report : Nov 21, 2012

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Test Report Certification

Applicant : KOBIAN CANADA INC.
Manufacturer : KOBIAN CANADA INC.
EUT Description : Hipstreet FM Transmitter
(A) MODEL NO.: HS-FMT172LCD
(B) SERIAL NO.: Hipstreet
(C) POWER SUPPLY: DC 12V (battery)

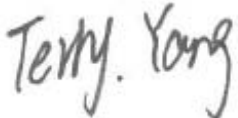
Measurement Procedure Used:


FCC Rules and Regulations Part 15 Subpart B ANSI C63.4: 2009

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : Nov 13-Nov 21, 2012

Prepared by : 
(Terry. Yang, Engineer)

Approved & Authorized Signer : 
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT : Hipstreet FM Transmitter

Model Number : HS-FMT172LCD

Power Supply : DC 12V (battery)

Highest operation frequency of the EUT: : 107.9MHz

Operate Frequency : 88.1MHz-107.9MHz (step 0.2MHz)

Applicant : KOBIAN CANADA INC.

Address : 560 Denison Street, Unit#5, Markham, Ontario L3R 2M8, Canada

Manufacturer : KOBIAN CANADA INC.

Address : 560 Denison Street, Unit#5, Markham, Ontario L3R 2M8, Canada

Date of sample received : Nov 13, 2012

Date of Test : Nov 13-Nov 21, 2012

1.2. Accessory and Auxiliary Equipment

Notebook PC : Manufacturer: Lenovo
M/N: 4290-RT8
S/N: R9-FW93G 11/08

Printer : Manufacturer: Canon
Model No.: BJC-1000SP

1.3. Description of Test Facility

EMC Lab : Accredited by TUV Rheinland Shenzhen

Listed by FCC
The Registration Number is 752051

Listed by Industry Canada
The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories
The Certificate Registration Number is L3193

Name of Firm : ACCURATE TECHNOLOGY CO. LTD

Site Location : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.4. Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated date	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 8, 2012	Jan. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 8, 2012	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 8, 2012	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 8, 2012	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 8, 2012	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 8, 2012	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 8, 2012	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 8, 2012	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 8, 2012	Jan. 7, 2013
Battery	CSB	F2	HR1234W	----	-----

3. OPERATION OF EUT DURING TESTING

3.1.Operating Mode

The modes are used: 1) Transfer data with SD Card

3.2.Configuration and peripherals



(EUT: Hipstreet FM Transmitter)

4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.107	Conducted Emission Test	N/A
Section 15.109	Radiated Emission Test	Compliant

5. CONDUCTED EMISSION FOR FCC PART 15 SECTION

15.107(A)

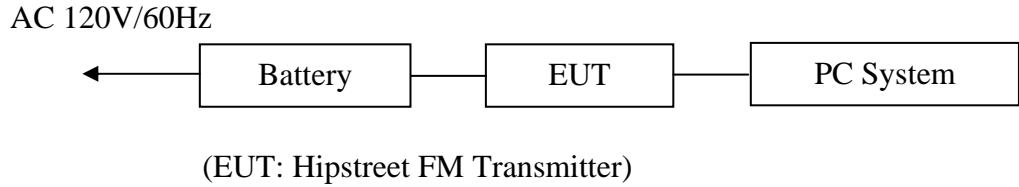
N/A

6. RADIATED EMISSION FOR FCC PART 15 SECTION 15.109(A)

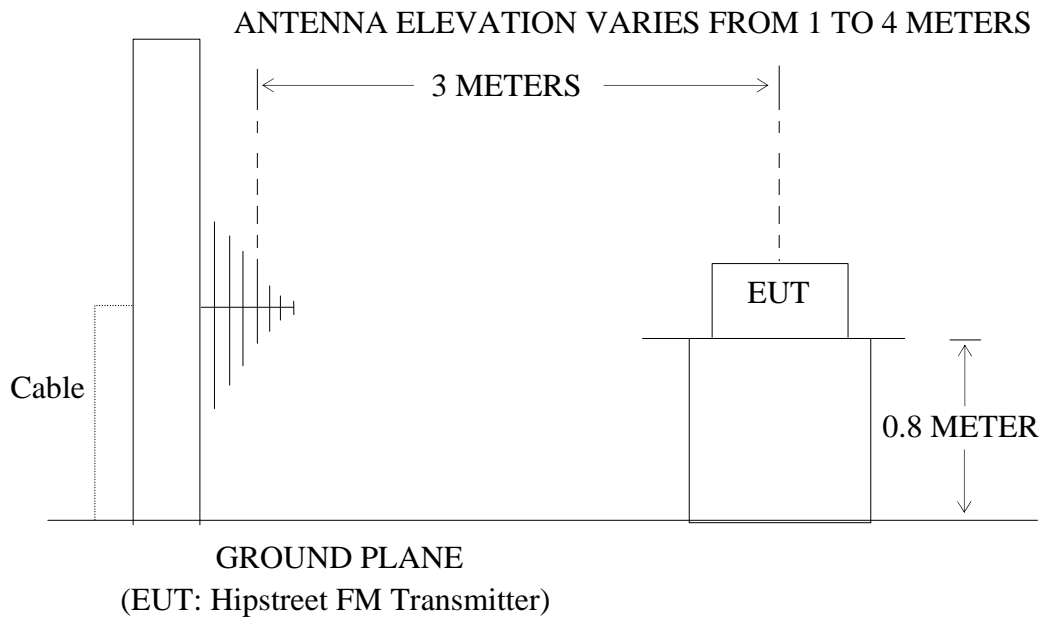
6.1. Block Diagram of Test Setup

6.1.1. Block diagram of connection between the EUT and simulators

6.1.1.1. For Transfer data with SD Card



6.1.2. Semi-Anechoic Chamber Test Setup Diagram



6.2.The Emission Limit For Section 15.109 (a)

6.2.1.Radiation Emission Measurement Limits According to Section 15.109 (a).

Frequency (MHz)	Limit	
	Field Strength of Quasi-peak Value (microvolts/m)	Field Strength of Quasi-peak Value (dB μ V/m)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

6.3.EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.3.1.Hipstreet FM Transmitter (EUT)

Model Number : HS-FMT172LCD
 Serial Number : N/A
 Manufacturer : KOBIAN CANADA INC.

6.4.Operating Condition of EUT

6.4.1.Setup the EUT and simulator as shown as Section 6.1.

6.4.2.Turn on the power of all equipment.

6.4.3. Let the EUT work in (Transfer data with SD Card) mode measure it.

6.5. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement.

The bandwidth of test receiver is set at 120 kHz in 30-1000MHz.
The frequency range from 30MHz to 1000MHz is checked.

6.6.The Emission Measurement Result

PASS.

Date of Test: Sep 5, 2012 Temperature: 25°C
 Hipstreet FM
 EUT: Transmitter Humidity: 50%
 Model No.: HS-FMT172LCD Power Supply: DC 12V
 Transfer data with SD
 Test Mode: Card Test Engineer: Allen

Frequency: 30-1000MHz								
Polarization								
Horizontal	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.2248	26.04	12.50	38.54	43.50	-4.96	QP
	2	337.6659	22.89	17.95	40.84	46.00	-5.16	QP
	3	853.7545	9.41	27.39	36.80	46.00	-9.20	QP
Vertical	No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
	1	167.2249	25.84	12.50	38.34	43.50	-5.16	QP
	2	337.6660	23.25	17.95	41.20	46.00	-4.80	QP
	3	853.7546	15.12	27.39	42.51	46.00	-3.49	QP



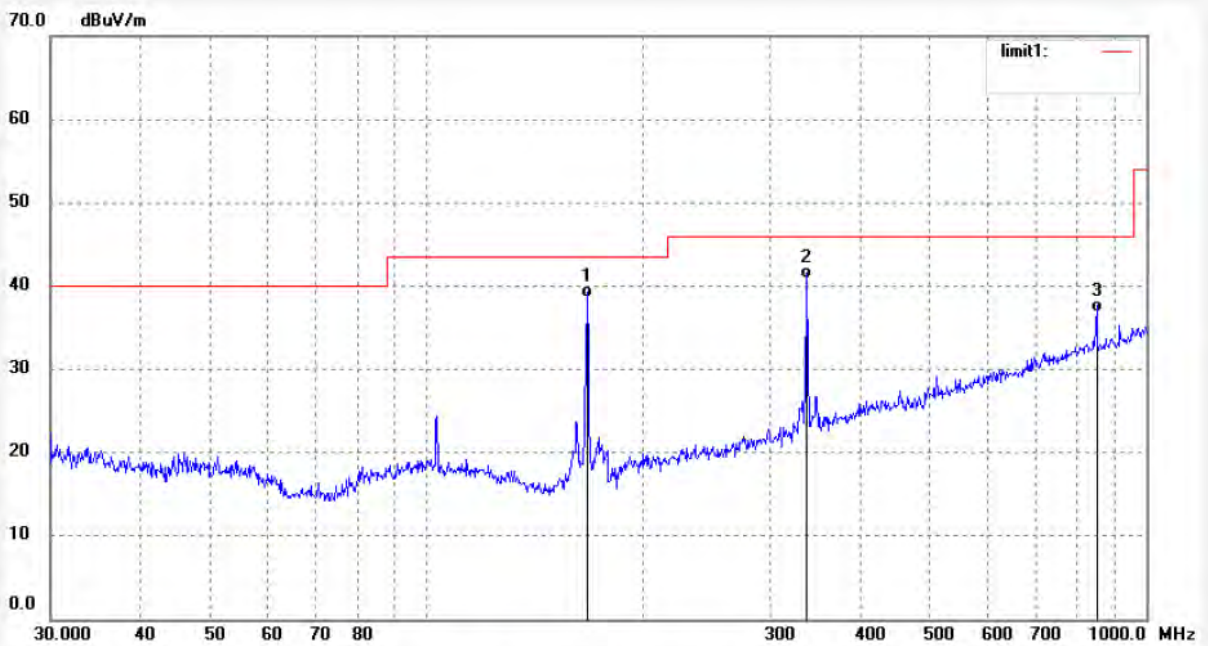
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: alen #530	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 12V
Test item: Radiation Test	Date: 2012/11/17
Temp.(C)/Hum.(%) 23 C / 49 %	Time: 10:48:29
EUT: Hipstreet FM Transmitter	Engineer Signature:
Mode: Transfer data with SD Card	Distance: 3m
Model: HS-FMT172LCD	
Manufacturer: Kobian	

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.2248	26.04	12.50	38.54	43.50	-4.96	QP			
2	337.6659	22.89	17.95	40.84	46.00	-5.16	QP			
3	853.7545	9.41	27.39	36.80	46.00	-9.20	QP			



ACCURATE TECHNOLOGY CO., LTD.

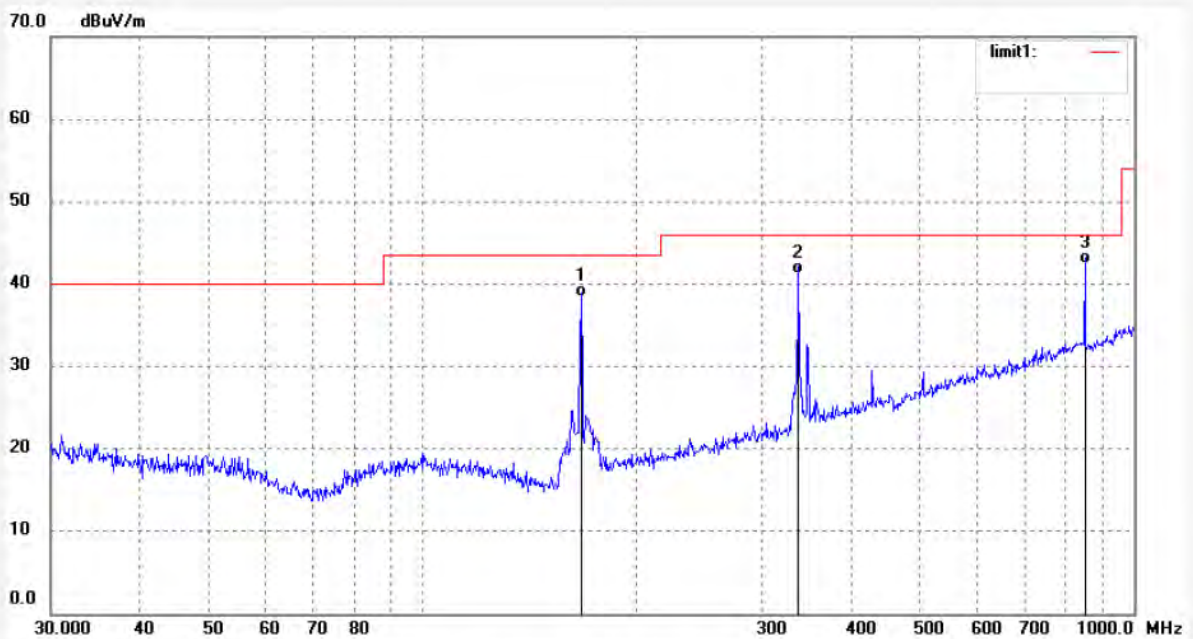
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: alen #531
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 49 %
EUT: Hipstreet FM Transmitter
Mode: Transfer data with SD Card
Model: HS-FMT172LCD
Manufacturer: Kobian

Polarization: Vertical
Power Source: DC 12V
Date: 2012/11/17
Time: 10:49:38
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	167.2249	25.84	12.50	38.34	43.50	-5.16	QP			
2	337.6660	23.25	17.95	41.20	46.00	-4.80	QP			
3	853.7546	15.12	27.39	42.51	46.00	-3.49	QP			