



BUREAU  
VERITAS

TEST REPORT No: (5213)192-0566

## TEST REPORT

To:	MAISON JOSEPH BATTAT LTD.	To:	-
Attn:	Joseph Battat	Attn:	-
Address:	8440 Darnley Road, Montreal Quebec, H4T 1M4	Address:	-
Fax:	514-738-8560	Fax:	-
E-mail:	<a href="mailto:joe.batta@battatco.com">joe.batta@battatco.com</a>	E-mail:	-
Folder No.:		---	
Factory name:		---	
Location:		---	
Product:	Baa-Baa-Barn Model No.: BX1222	Sample No:	(5213)192-0566
		Test Date(s):	July 17, 2013
		Test Requested:	FCC Part 15 – 2011
		Test Method:	ANSI C63.4 – 2009
		FCC ID:	SLURF1356BX1222

The results given in this report are related to the tested specimen of the described electrical apparatus.

CONCLUSION: The submitted sample was found to COMPLY with requirement of FCC Part 15 Subpart C.

Authorized Signature:



Reviewed by: Keith Yeung

Approved by: Steven Tsang

Date: August 5, 2013

Date: August 5, 2013

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## Test Result Summary

<b>EMISSION TEST</b>		
<b>Test requirement: FCC Part 15 - 2011</b>		
Test Condition	Test Method	<b>Test Result</b>
		Pass      Failed
Radiated Emission Test, 9kHz to 1GHz	ANSI C63.4	<input checked="" type="checkbox"/> <input type="checkbox"/>

## Report Revision & Sample Re-submit History:

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### Location of the test laboratory

Radiated and Conducted emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009. An Open Area Test Site and Full Anechoic Chamber (FCC Listed Site, Registration No. 642151) are set up for investigation and located at:

**BUREAU VERITAS HONG KONG LIMITED, EMC CENTRE**  
No. 2106-2107, 21/F., Westin Centre,  
26 Hung To Road,  
Kwun Tong, Kowloon,  
Hong Kong

### List of measuring equipment

#### Radiated Emission

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	R&S	ESCI	100379	28-JAN-2014
LOOP ANTENNA	ETS-LINDGREN	6502	00102266	13-AUG-2013
BILOG ANTENNA	SCHAFFNER	CBL6112D	25229	12-SEP-2013
OPEN AREA TEST SITE	BVCPS	N/A	N/A	08-JUL-2014
ANECHOIC CHAMBER	ALBATROSS	M-CDC	80374004499B	05-FEB-2014
COAXIAL CABLE	SUHNER	N/A	N/A	24-SEP-2013

#### Frequency error and Frequency drift, Modulation bandwidth, Frequency stability

EQUIPMENT	MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATION DUE
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	100379	28-JAN-2014
CLIMATIC CHAMBER	EMV	TH-22P2S	N/A	18-JUN-2014

#### Remarks:-

N/A : Not Applicable or Not Available

The measurement instrumentation uncertainty would be taking into consideration on each of the test result



## TEST REPORT No: (5213)192-0566

### Equipment Under Test [EUT]

#### Description of Sample:

Model Name: Baa-Baa-Barn

Model Number: BX1222

Rating: 6Vdc ("AA" size battery x 4)

#### Description of EUT Operation:

The Equipment Under Test (EUT) is a **MAISON JOSEPH BATTAT LTD.** of RFID toy. The transceiver with 4 Tags is operating at 13.563MHz. The transceiver continues to transmit when buttons are turned to ON and the Passive Tags provoked the signal transmission when the transceiver track on them. Modulation by IC, and type is amplitude modulation.

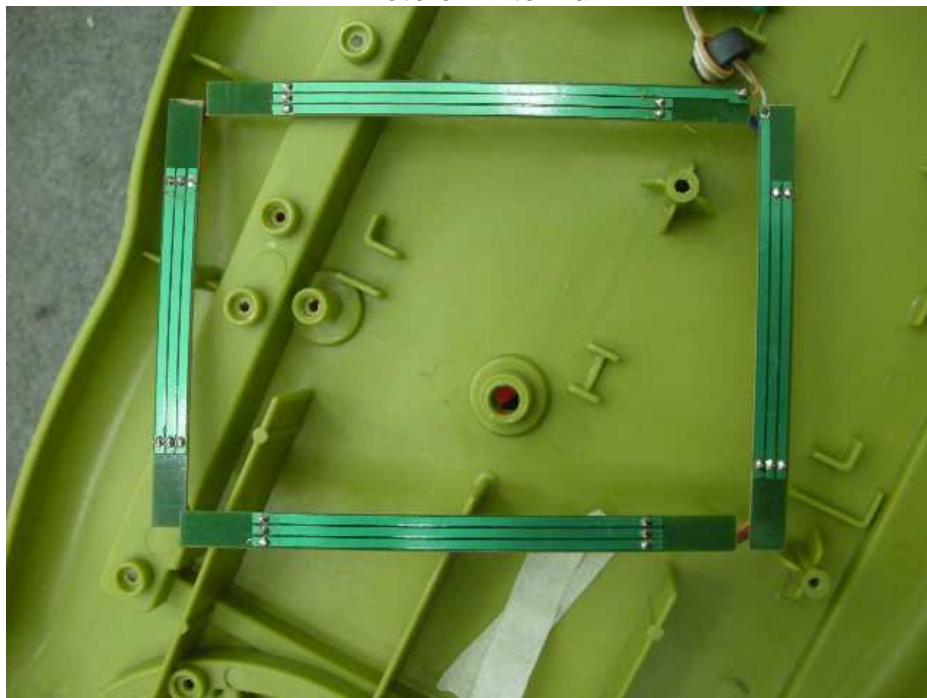
The transceiver has different control:

1. Switch – on/off and try me mode control
2. Mouse button – sound control
3. Button – sound and light control

#### Antenna Requirement (Section 15.203)

The EUT is use of a permanently antenna. The antenna consists of 145cm long signal. It is soldered on the PCB. The antenna is not replaceable or user serviceable. The requirements of S15.203 are met. There are no deviations or exceptions to the specifications.

**Photo of Antenna**





## TEST REPORT No: (5213)192-0566

### Test Results

#### Radiated Emissions (Fundamental)

Test Requirement: FCC Part 15 Section 15.225  
Test Method: ANSI C63.4  
Test Date(s): 2013-07-16  
Temperature: 28.0 °C  
Humidity: 77.0 %  
Atmospheric Pressure: 100.2 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("AA" size battery x 4)

#### Test Procedure:

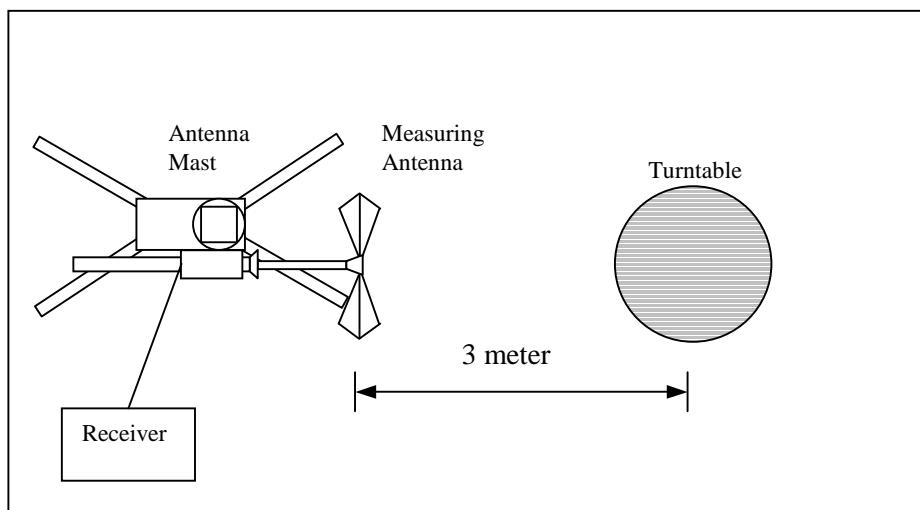
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

The equipment under test (EUT) was placed on a non-conductive turntable with dimensions of 1.5m x 1m and 0.8m high above the ground. 3m from the EUT, a broadband antenna mounting on the mast received the signal strength. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using new battery. The turntable was rotated to maximize the emission level. The antenna was then moving along the mast from 1m up to 4m until no more higher value was found. Both horizontal and vertical polarization of the antenna were placed and investigated.

For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.

Location: The Roof, Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

#### Test Setup: Open Area Test Site



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### Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.225]:

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission at 3m
13.553-13.567	124 dB $\mu$ V/m

### Measurement Data

#### Test Result of (Transmission mode): PASS

#### Detection mode: Quasi-Peak

Frequency (MHz)	Polarity (H/V) and degree	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
13.564	V/0°	12.7	61.4	124.0	-62.6

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 100KHz  
VBW = 300KHz



## TEST REPORT No: (5213)192-0566

### Radiated Emissions (9kHz – 1GHz)

Test Requirement: FCC Part 15 Section 15.209  
Test Method: ANSI C63.4  
Test Date(s): 2013-07-16  
Temperature: 28.0 °C  
Humidity: 77.0 %  
Atmospheric Pressure: 100.2 kPa  
Mode of Operation: Transmission mode / Try me mode  
Tested Voltage: 6Vd.c. ("AA" size battery x 4)

#### Limits for Radiated Emissions [FCC 47 CFR 15.209]:

Frequency Range [MHz]	Quasi-Peak Limits [ $\mu$ V/m]
1.705-30	300
30-88	100
88-216	150
216-960	200
Above960	500



## TEST REPORT No: (5213)192-0566

### Measurement Data

**Test Result of (Transmission mode): PASS**

**Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
40.692	H	14.5	33.7	40.0	-6.3
54.256	H	8.3	27.2	40.0	-12.8
67.820	H	4.9	29.5	40.0	-10.5
81.384	H	8.3	24.6	40.0	-15.4
94.948	H	10.7	24.3	43.5	-19.2
108.512	H	12.9	22.5	43.5	-21.0
122.076	H	12.9	21.6	43.5	-21.9
135.640	H	12.2	24.7	43.5	-18.8
149.204	H	10.9	22.8	43.5	-20.7

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
27.128	V	11.5	19.6	69.5	-49.9
40.692	V	14.5	32.0	40.0	-8.0
54.256	V	8.3	26.9	40.0	-13.1
67.820	V	4.9	30.3	40.0	-9.7
81.384	V	8.3	24.2	40.0	-15.8
94.948	V	10.7	27.1	43.5	-16.4
108.512	V	12.9	22.6	43.5	-20.9
122.076	V	12.9	23.1	43.5	-20.4
135.640	V	12.2	24.5	43.5	-19.0
149.204	V	10.9	25.2	43.5	-18.3

Note: Field Strength includes Antenna Factor and Cable Loss.

Receiver setting: RBW = 120KHz  
VBW = 120KHz



**TEST REPORT No: (5213)192-0566**  
**Measurement Data**

**Test Result of (Try me mode): PASS**

**Detection mode: Quasi-Peak**

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
46.22	H	10.6	26.4	40.0	-13.6
61.38	H	5.3	25.2	40.0	-14.8
193.47	H	9.9	27.8	43.5	-15.7
285.26	H	13.7	28.3	46.0	-17.7
382.72	H	16.9	26.3	46.0	-19.7
483.24	H	18.7	26.5	46.0	-19.5

Frequency (MHz)	Polarity (H/V)	Antenna Factor and Cable Loss (dB/m)	Field Strength at 3m (dB $\mu$ V/m)	Limit at 3m (dB $\mu$ V/m)	Margin (dB)
46.22	V	10.6	26.2	40.0	-13.8
61.38	V	5.3	25.7	40.0	-14.3
193.47	V	9.9	26.5	43.5	-17.0
285.26	V	13.7	27.3	46.0	-18.7
382.72	V	16.9	30.0	46.0	-16.0
483.24	V	18.7	29.9	46.0	-16.1

Note: Field Strength includes Antenna Factor and Cable Loss.



## TEST REPORT No: (5213)192-0566

### 26dB Bandwidth of Fundamental Emission

Test Requirement: FCC 47 CFR 15.225  
Test Method: ANSI C63.4  
Test Date(s): 2013-07-17  
Temperature: 23.0 °C  
Humidity: 51.0 %  
Atmospheric Pressure: 100.3 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("AA" size battery x 4)

#### Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### Limits for 26dB Bandwidth of Fundamental Emission:

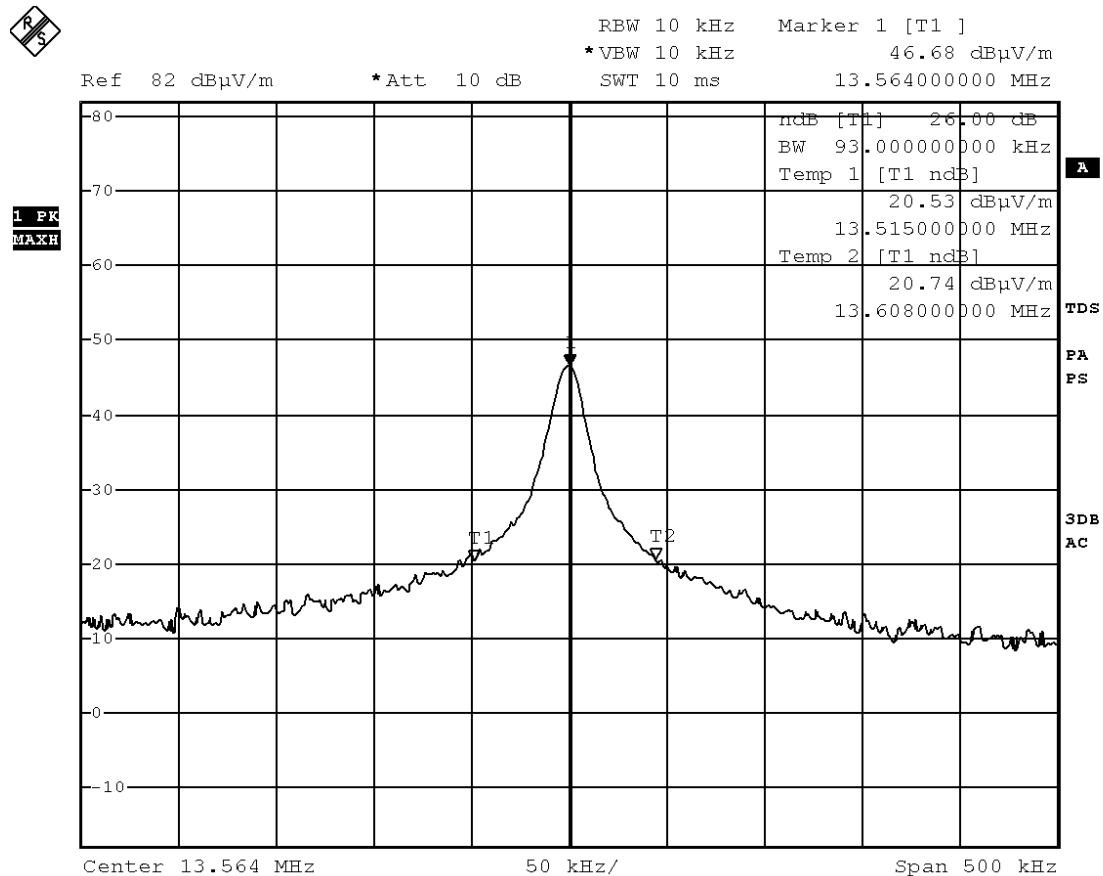
Frequency [MHz]	26dB Bandwidth [KHz]	Limits [MHz]
13.564	93.00	within 13.553 – 13.567



## TEST REPORT No: (5213)192-0566

### Measurement Data :

#### Test Result of 26dB Bandwidth of Fundamental Emission: PASS



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## TEST REPORT No: (5213)192-0566

### Frequency Drift

Test Requirement: FCC Part 15 Section 15.225  
Test Method: ANSI C63.4  
Test Date(s): 2013-07-17  
Temperature: 23.0 °C  
Humidity: 51.0 %  
Atmospheric Pressure: 100.3 kPa  
Mode of Operation: Transmission mode  
Tested Voltage: 6Vd.c. ("AA" size battery x 4)

#### Test Setup:

The EUT was placed at a site with temperature control and supplied with power for extreme voltage testing. Antenna with suitable frequency range was used during the test.

The test was performed in accordance with ANSI C63.4.

Location: Anechoic Chamber, No. 2106-2107, 21/F., Westin Centre, 26 Hung To Road, Kwun Tong, Kowloon, Hong Kong

#### Limit for Frequency Tolerance:

Maintained within +/- 0.01% of the operating frequency

#### Test Result of (Transmission mode): PASS

Test Condition		Nominal Transmit Frequency: 13.564MHz				
		Time				
		Start up	Two minutes after	Five minutes after	Ten minutes after	Frequency tolerance (%)
T <sub>nom</sub> : 20°C	V <sub>nom</sub> : 6.00V	13.56400	13.56400	13.56400	13.56400	N/A
T <sub>min</sub> : -20°C	V <sub>nom</sub> : 6.00V	13.56400	13.56400	13.56400	13.56400	0.00000
T <sub>max</sub> : 50°C	V <sub>nom</sub> : 6.00V	13.56400	13.56400	13.56400	13.56400	0.00000

#### Remarks:-

N/A: Not Applicable or Not Available

**TEST REPORT No: (5213)192-0566**

**Photographs of EUT**

**Front View of the product**



**Rear View of the product**



**Top View of the product**



**Bottom View of the product**



**Battery compartment**



**Battery Cover**





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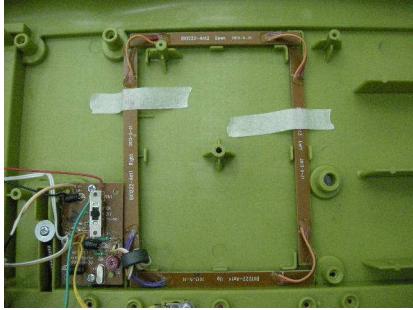
**Internal View of the product**



**Internal View of the product**



**Internal View of the product**



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**Measurement of Radiated Emission Test Set Up**



**\*\*\*\*\* End of Report \*\*\*\*\***

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