

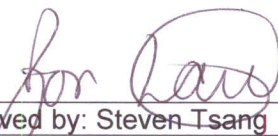

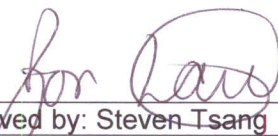

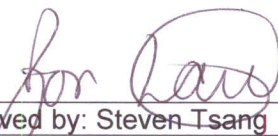


TEST REPORT No: (5213)192-0566

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:	joe.batta@battatco.com		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								
<p>The results given in this report are related to the tested specimen of the described electrical apparatus.</p> <p>CONCLUSION: The submitted sample was found to <u>COMPLY</u> with requirement of FCC Part 15 Subpart C.</p> <p>Authorized Signature:</p> <table border="1"> <tr> <td>  </td> <td>  </td> </tr> <tr> <td>Reviewed by: Keith Yeung</td> <td>Approved by: Steven Tsang</td> </tr> <tr> <td>Date: August 5, 2013</td> <td>Date: August 5, 2013</td> </tr> </table>							Reviewed by: Keith Yeung	Approved by: Steven Tsang	Date: August 5, 2013	Date: August 5, 2013
										
Reviewed by: Keith Yeung	Approved by: Steven Tsang									
Date: August 5, 2013	Date: August 5, 2013									



TEST REPORT No: (5213)192-0566

Test Result Summary

EMISSION TEST			
Test requirement: FCC Part 15 - 2011			
Test Condition	Test Method	Test Result	
		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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TEST REPORT No: (5213)192-0566

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: 6Vd.c ("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 is turn to ON and the Passive Tags provoked the signal transmission when the transceiver track on them. Modulation by IC, and type is amplitude modulation.

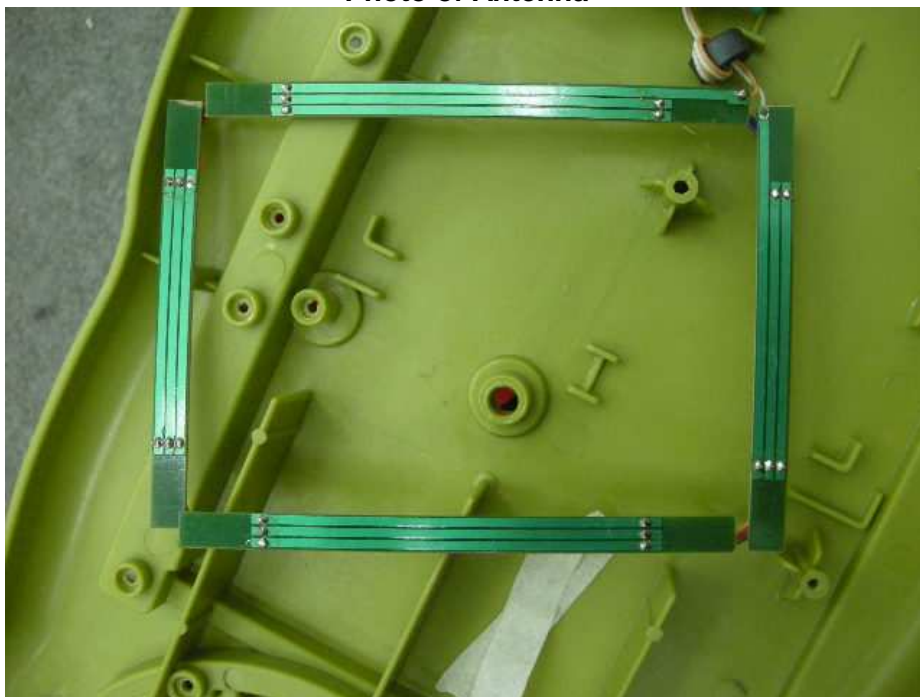
The transceiver has different control:

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:

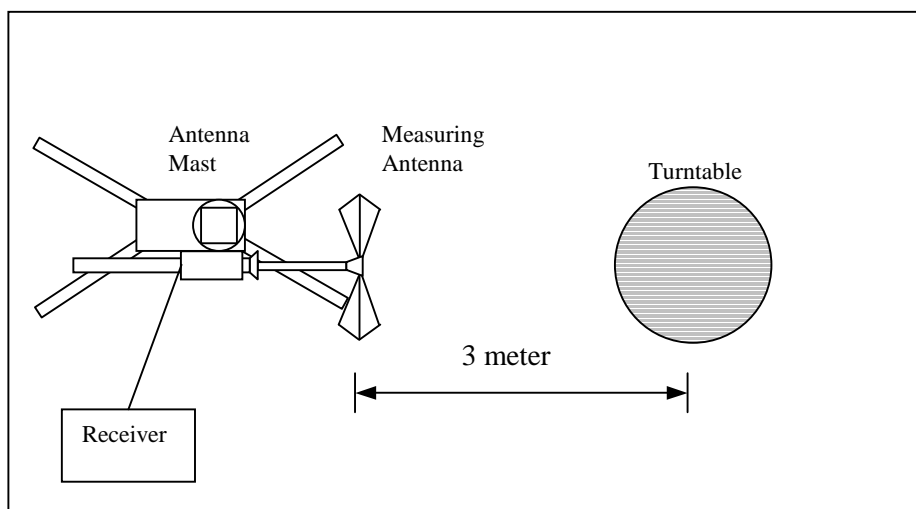
Radiated emissions measurements are investigated and taken pursuant to the procedures of ANSI C63.4 – 2009.

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 performed 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 placed 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





TEST REPORT No: (5213)192-0566

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 μ 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 μ V/m)	Limit at 3m (dB μ 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 [μ 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 (dBμV/m)	Limit at 3m (dBμV/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 (dBμV/m)	Limit at 3m (dBμV/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 (dBμV/m)	Limit at 3m (dBμV/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 (dBμV/m)	Limit at 3m (dBμV/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.

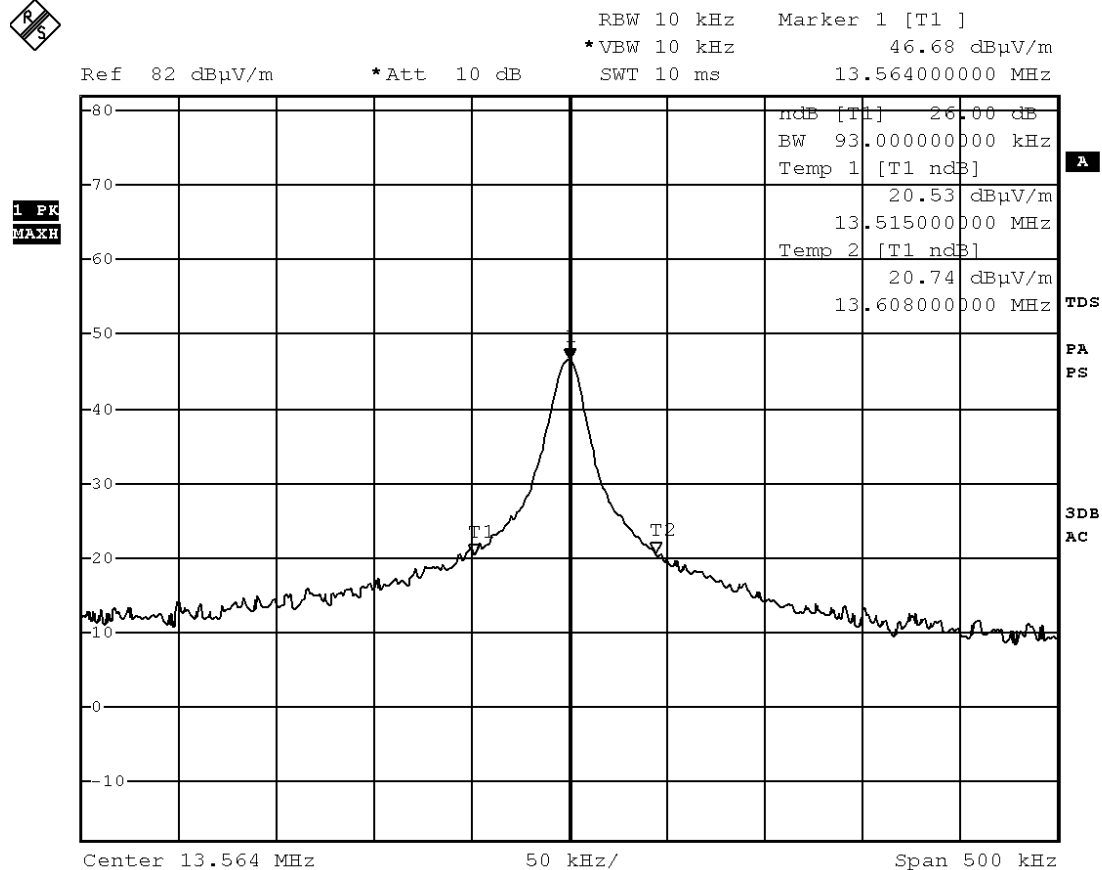
Limits for 26dB Bandwidth of Fundamental Emission:

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





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 _{nom} : 20°C	V _{nom} : 6.00V	13.56400	13.56400	13.56400	13.56400	N/A
T _{min} : -20°C	V _{nom} : 6.00V	13.56400	13.56400	13.56400	13.56400	0.00000
T _{max} : 50°C	V _{nom} : 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



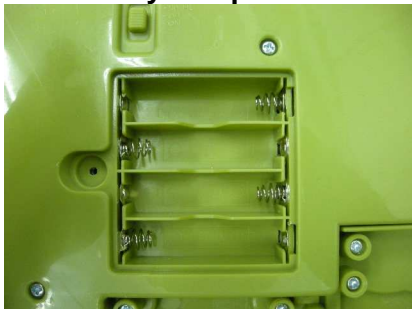
Top View of the product



Bottom View of the product



Battery compartment

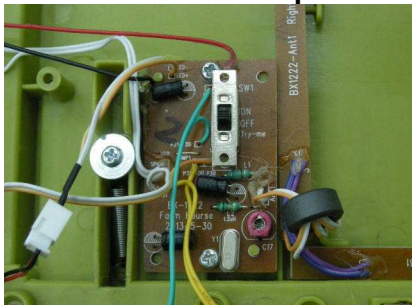


Battery Cover

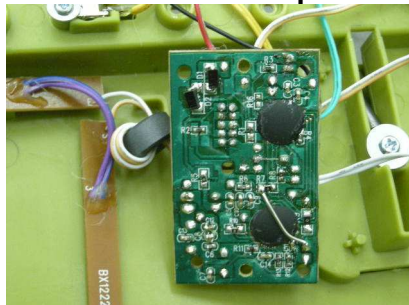


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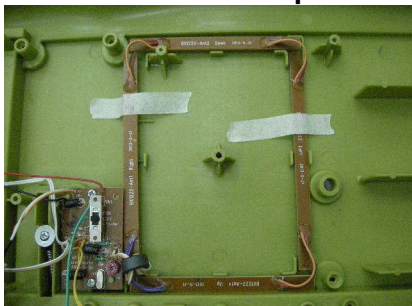
Internal View of the product



Internal View of the product



Internal View of the product



TEST REPORT No: (5213)192-0566

Measurement of Radiated Emission Test Set Up



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