



EMC VERIFICATION SUMMARY

Report No.: SZHH01091805-001

Toy

ITE

Others

Model: BL-16873 Additional Models: BL-16863, BL-13803, BL-56203, BL-14013, BL-26753, BL-13013, BL-92013, BL-52203, BL-60703, BL-60793	Applicant: DONGGUAN LIYANG TOYS LTD Floor 3, Building 2, Daxingwei Industry Xianxi, Wusha, Changan Town, Dongguan City, Guangdong Province		
Product Description: X5 PLUS	Test Conducted Date: 25 January 2017 to 13 February 2017		
Sample Receipt Date: 25 January 2017	Test Conducted Date: 25 January 2017 to 13 February 2017		
<input type="checkbox"/> 1st TEST <input checked="" type="checkbox"/> 2nd TEST	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: *EN 55014-1: 2006 + A1: 2009 + A2: 2011 *EN 55014-2: 1997 + A1: 2001 + A2: 2008		
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China		
Test Result	OK	Not OK	Remark (See Page 2)
*EN 55014-1: 2006 + A1: 2009 + A2: 2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*EN 55014-2: 1997 + A1: 2001 + A2: 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

Prepared and Checked By:

Approved By:

Sign On File
Tom Li
Engineer
Intertek

Jimmy Wen
Assistant Supervisor
Intertek
Date: 13 February 2017

- This summary is part of the full report and should be read in conjunction with it.
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- The test report only allows to be revised only within the report defined retention period unless further standard or the requirement was noticed

EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU Performed On the X5 PLUS,
Model: BL-16873.

We tested the X5 PLUS, Model: BL-16873. to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN 55014-1, EN55014-2 standards when tested after modified.

The Models: BL-16863, BL-13803, BL-56203, BL-14013, BL-26753, BL-13013, BL-92013, BL-52203, BL-60703, BL-60793 are the same as the Model: BL-16873 in hardware aspect. The difference in model number serves as marketing strategy.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Remark: Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN 55014-2: 1997 + A1: 2001 + A2: 2008

This product not contains electronic control circuitry. It is classified to Category I of the standard and therefore deemed to fulfil the relevant immunity requirements without testing.

LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	X5 PLUS
Model:	BL-16873
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables & Others:	N/A
Adapter:	N/A
Rating Voltage:	DC 3.0V (2 x 1.5V AA batteries)

Applicant: DONGGUAN LIYANG TOYS LTD
Model: BL-16873
Worst Case Operating Mode: Motor

EN 55014-1 Radiated Scan

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	20-Jan-17	20-Jan-18
SZ061-12	Biconilog Antenna	ETS	3142E	09-Sep-16	09-Sep-17
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	16-Apr-16	16-Apr-18

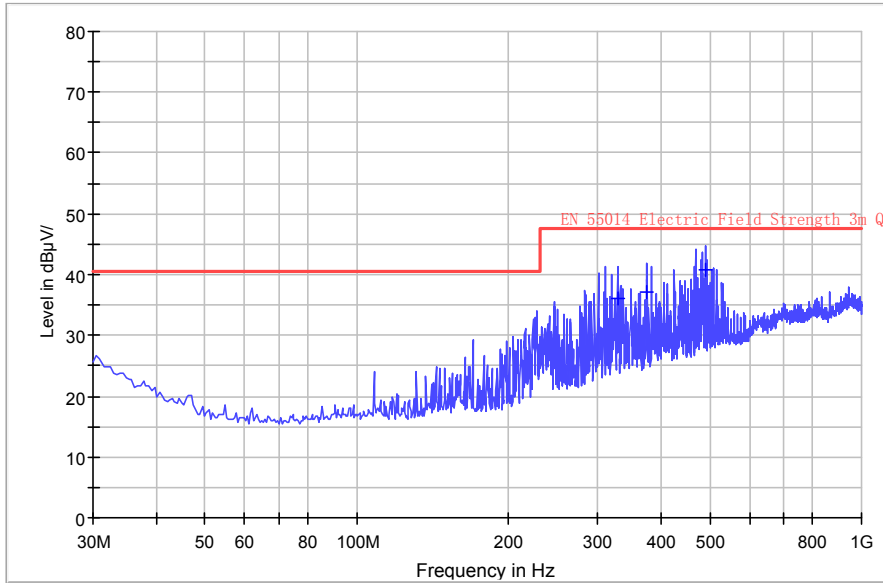
- Notes:
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Negative sign (-) in the margin column signify levels below the limit.
 3. Frequency range scanned: 30MHz to 1000MHz.
 4. Only emissions significantly above equipment noise floor are reported.
 5. Uncertainty: $\pm 4.8\text{dB}$ at a level of confidence of 95%.

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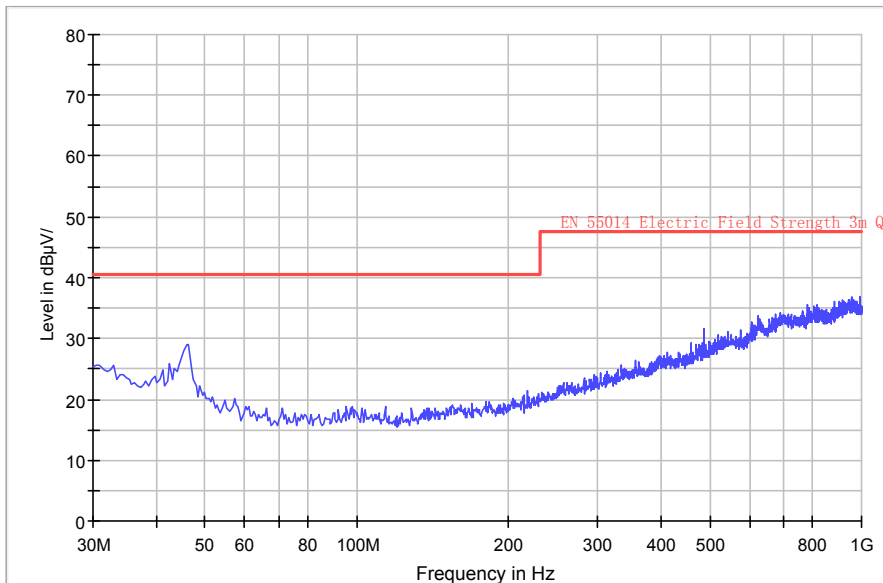
Graphic

Radiated Emissions Pursuant to EN55014-1: Emissions Requirement

Horizontal



Vertical



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Data Table**Radiated Emissions
Pursuant to EN55014-1: Emissions Requirement**

Polarization	Frequency (MHz)	Net at 3m (dB μ V/m)	Calculated Net at 10m (dB μ V/m)	Limit at 10m (dB μ V/m)	Margin (dB)
H	328.275	36.1	25.6	37.0	-11.4
H	375.320	37.0	26.5	37.0	-10.5
H	490.750	40.8	30.3	37.0	-6.7
V	328.275	36.1	25.6	37.0	-11.4
V	375.320	37.0	26.5	37.0	-10.5
V	490.750	40.8	30.3	37.0	-6.7

 No emissions significantly above equipment noise floor.

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Model: BL-16873

External Photo



Applicant: DONGGUAN LIYANG TOYS LTD
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Internal Photo



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