



CONSUMER PRODUCTS SERVICES DIVISION

JIANGSU SUNSHINE DONGSHENG I/E CO., LTD

Technical Report: (9125)254-0344

Date Received: SEP. 11, 2025

OCT. 16, 2025

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HERUI ZHAO
JIANGSU SUNSHINE DONGSHENG I/E CO., LTD
ROOM 1709 SULIANG INTERNATIONAL MANSION, #338
ZHONGSHAN ROAD, NANJING, CHINA

Sample Description:	WOODEN SAY & PLAY CUBE	Sample Quantity:	3 PCS
Vendor:	N/A	Item/Style No(s):	41005032
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	CSG GLOBAL EDUCATION LTD (TRADING AS KCS EDUCATION) (TRADING ADDRESS: UNIT 1, NEW HYTHE LANE, AYLESFORD, KENT ME20 7FE)		
Labeled Age Grade:	NONE	PO No.:	N/A
Appropriate Age Grade:	N/A	Ref #:	N/A
Client Specified Age Grade:	ALL AGES	Country of Origin:	CHINA
Tested Age Grade:	ALL AGES	Assortment No.:	N/A
UPC Code:	N/A	Country of Destination:	EU, NORTHERN IRELAND, GREAT BRITAIN

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-6.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020.
- The migration of certain elements in toy material requirements of the European Standard, "Safety of Toys" EN 71 Part 3: 2019+A2:2024.
- EN IEC 62115:2020+A11:2020 Safety of Electric Toy.
- EN IEC 55014-1: 2021
- EN IEC 55014-2: 2021



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RESULTS:

NOTE:

1. According to Toy Safety Directive 2009/48/EC, toys made available on the market must bear the CE marking. Manufacturers/importers shall indicate their name, registered trade name or registered trade mark and the address at which they can be contracted on the toy, packaging or document accompanying the toy and must ensure their toys bear a type, batch, serial or model number or other element allowing their identification.
2. The sample is tested for "ALL AGES" as the client's request.
3. With the client's prior consent, The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-6 is subcontracted to Bureau Veritas Consumer Products Services Division (Shanghai).
4. No relevant packaging was provided with the submitted sample(s), consequently, evaluation of the labeling requirements of this European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, Clause 7, was not conducted.
5. As per client request, the results of The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020 & The migration of certain elements in toy material requirements of the European Standard, "Safety of Toys" EN 71 Part 3: 2019+A2:2024 were transferred from Technical Report No. (9125)176-0103 dated on JUL. 25, 2025.
6. With the client's prior consent, EN IEC 55014-1: 2021 & EN IEC 55014-2: 2021 are subcontracted to other lab/legal entity.
7. With the client's prior consent, EN IEC 62115:2020+A11:2020 Safety of Electric Toy is subcontracted to other lab/legal entity.

BVCPS (Shanghai) Nanjing branch contact information for this report

Technical Questions:

Nut Wang 025-52076077, E-mail: nut.wang@bureauveritas.com

Concerns About Billing and General Inquires:

Rita Zhang 025-52076026, E-mail: rita-jm.zhang@bureauveritas.com

**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)
NANJING BRANCH**

Rita Zhang

RITA ZHANG
PROGRAM MANAGER (HLTY DIVISION)



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APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71 :Part 1:2014+A1:2018,CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission(CPSC)

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2

Symbol	Explanation
NM	The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause
M	The samples are IN COMPLIANCE WITH the requirement of this Subclause
N/A	Not Applicable
NR	Not Requested
NE	Not Evaluated
NP	None Present
P	Present
R	Refer to Comment Section of this report

Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)**

Subclause	Requirement	Result
4.19 & 7.13 & 7.14	Percussion caps	NA
*4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	M
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5.1	General	M
5.1a	Small parts – as received	M
5.1b	Small parts, sharp points, sharp edges – after tests	M
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	M
5.1f	Casing of toys	M
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	M



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RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1: 2018)**

Subclause	Requirement	Result
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	NA
WARNINGS, INSTRUCTIONS FOR USE		
7.1	General	SEE NOTE 4
7.2	Toys not intended for children under 36 months	SEE NOTE 4
7.5	Functional toys	SEE NOTE 4

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NR = Not Request



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RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.4.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



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RESULTS:

FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-



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RESULTS:

Tested component(s) breakdown list

Sample Identity	Color	Location	Style
1.	WOOD COMPOSITE BOARD	/	/
2.	WOOD	/	/



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RESULTS:

Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment

Method: : European Standard EN 71 Part 3: 2019+A2:2024

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Category I	Dry, brittle, powder-like or pliable toy material
	Category II	Liquid or sticky toy material
	Category III	Scraped-off toy material

Parameter	Unit	Detection Limit	Result						Limit
			1.	2.	-	-	-	-	
Category III	-	-	-	-	-	-	-	-	-
Boron(B)	mg/kg	1500	ND	ND	-	-	-	-	15000
Aluminum(Al)	mg/kg	2813	ND	ND	-	-	-	-	28130
Chromium III (Cr III)	mg/kg	46	ND	ND	-	-	-	-	460
Chromium VI (Cr VI)	mg/kg	0.005	ND	ND	-	-	-	-	0.053
Manganese(Mn)	mg/kg	1500	ND	ND	-	-	-	-	15000
Cobalt(Co)	mg/kg	13	ND	ND	-	-	-	-	130
Nickel(Ni)	mg/kg	93	ND	ND	-	-	-	-	930
Copper(Cu)	mg/kg	770	ND	ND	-	-	-	-	7700
Zinc(Zn)	mg/kg	4600	ND	ND	-	-	-	-	46000
Arsenic(As)	mg/kg	4.7	ND	ND	-	-	-	-	47
Selenium(Se)	mg/kg	46	ND	ND	-	-	-	-	460
Strontium(Sr)	mg/kg	5600	ND	ND	-	-	-	-	56000
Cadmium(Cd)	mg/kg	1.7	ND	ND	-	-	-	-	17
Tin(Sn)	mg/kg	18000	ND	ND	-	-	-	-	180000
Organic tin compounds(OT)	mg/kg	1.2	ND	ND	-	-	-	-	12
Antimony(Sb)	mg/kg	56	ND	ND	-	-	-	-	560
Barium(Ba)	mg/kg	1875	ND	ND	-	-	-	-	18750
Mercury(Hg)	mg/kg	9.4	ND	ND	-	-	-	-	94
Lead(Pb)	mg/kg	2.3	ND	ND	-	-	-	-	23
Conclusion	-	-	PASS	PASS	-	-	-	-	-

Note / Key :

ND = Not detected

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

">" = Greater than

g = gram(s)

Req. = Requirement

Remark:

#If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation



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RESULTS:

Cr(VI) by IC-ICP-MS or IC-UV/VIS. Cr(III)=Combined Cr – Cr(VI)

*Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

□The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.



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RESULTS:

DESCRIPTION OF STANDARDS AND RESULTS

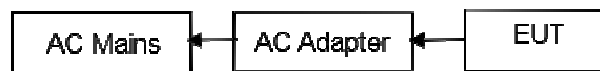
EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted emission at the AC mains port	EN IEC 55014-1: 2021	Table 5	Pass
Conducted emission at the Auxiliary ports	EN IEC 55014-1: 2021	Table 5	N/A
Discontinuous Disturbance (Click)	EN IEC 55014-1: 2021	Clause 4.4	N/A
Disturbance Power (30 MHz to 300 MHz)	EN IEC 55014-1: 2021	Table 7, Table 8	N/A
Radiated Emission (30 MHz to 1000 MHz)	EN IEC 55014-1: 2021	Table 9	Pass
Radiated Emission (1 GHz to 6 GHz)	EN IEC 55014-1: 2021	Table 11	N/A
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic Discharge (ESD)	IEC 61000-4-2:2008	B	Pass
Radio frequency electromagnetic fields	IEC 61000-4-3:2020	A	N/A
Fast Transients (EFT)	IEC 61000-4-4:2012	B	Pass
Surges	IEC 61000-4-5: 2014+AMD1:2017	B	Pass
Injected Currents	IEC 61000-4-6:2023	A	Pass
Voltage Dips, 100%	IEC 61000-4-11: 2020	C	N/A
Voltage Dips, 60%		C	N/A
Voltage Dips, 30%		C	N/A
Note: N/A is an abbreviation for Not Applicable.			

RESULTS:

2. RADIATED EMISSION (UP TO 1GHZ)

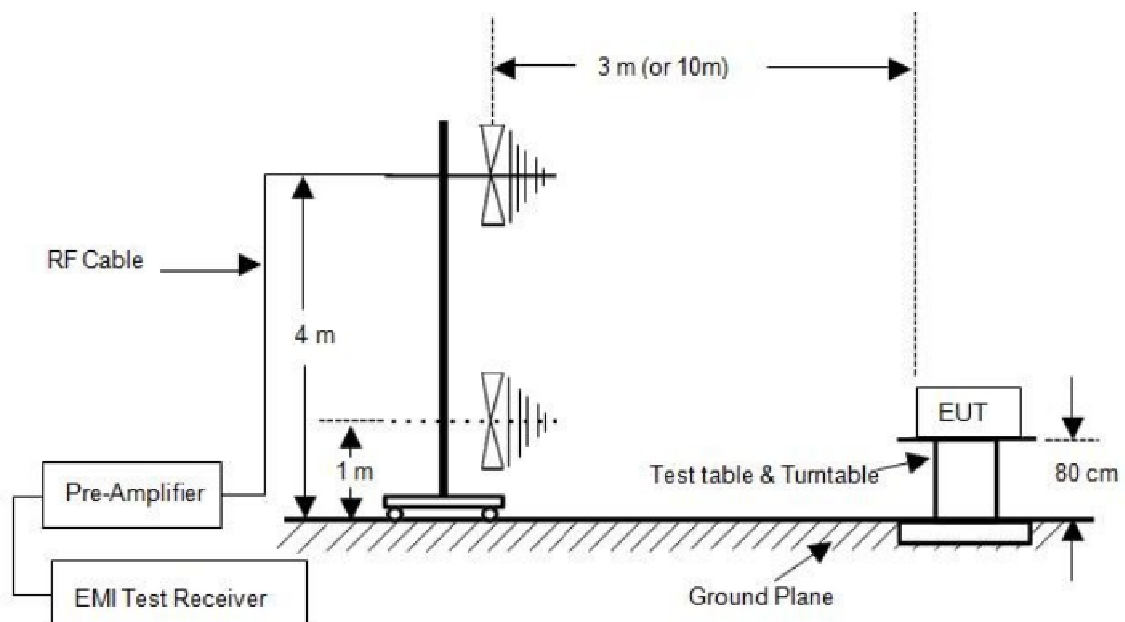
2.1. Block Diagram of Test

2.1.1. Block diagram of connection between the EUT and simulators



(EUT: TOY)

2.1.2. Block diagram of test setup (In chamber)



(EUT: TOY)



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RESULTS:

2.2. Measurement Standard and limit

2.2.1. Test Standard

EN IEC 55014-1: 2021

2.2.2. Test Limits

All emanations from a device or system shall not exceed the level of field strengths specified below:

Table 9

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dBmV/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.

(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

2.3. EUT Configuration on Test

The EN IEC 55014 regulations test method must be used to find the maximum emission during Radiated Emission measurement.

2.4. Operating Condition of EUT

Step 1: Turn on the power.

Step 2: Let the EUT work in test mode (Charging, ON) and measure it.

2.5. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meter to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarizations of the antenna are set on test.

The bandwidth of the Receiver (ESCI) is set at 120kHz.



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2.6. Test Results

Pass.

All the modes were tested and the worst data are attached the following pages.



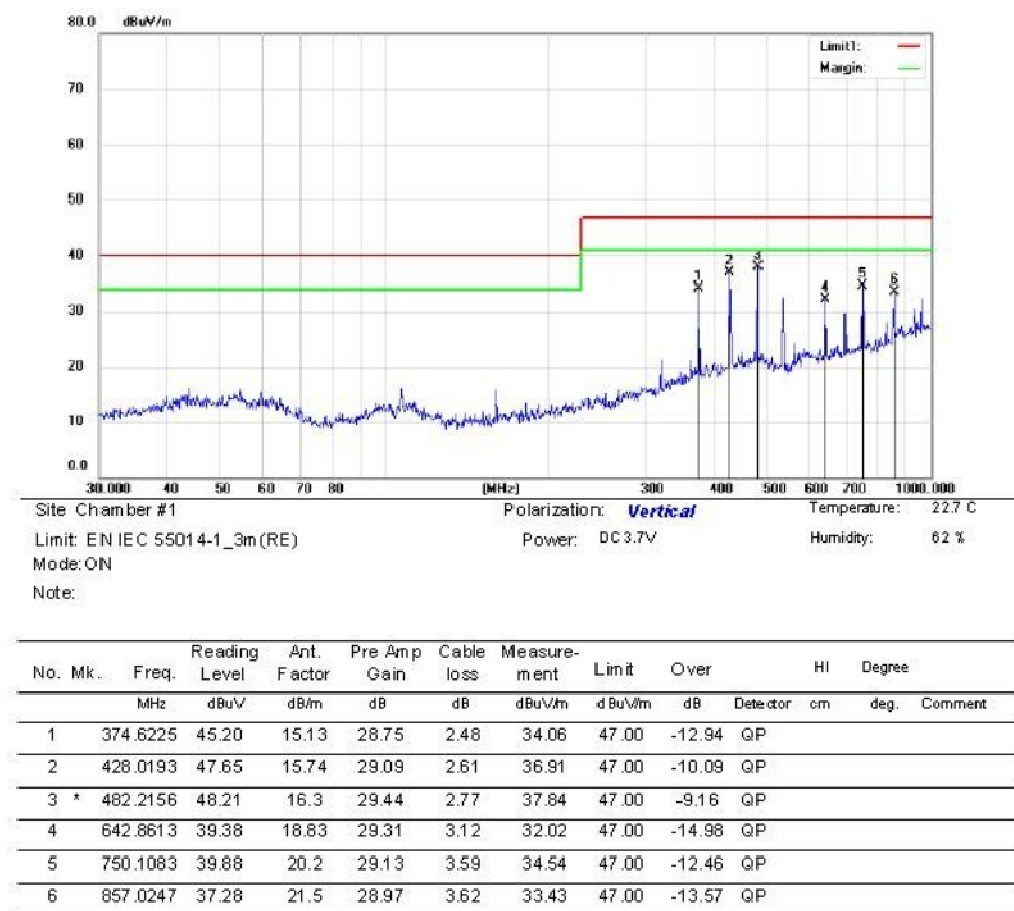
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RESULTS:



*:Maximum data x:Over limit !:over margin

Operator: Ccyf

Remark:

1. Measurement (dBuV/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dBμV/m)

2. Over (dB) = Measurement (dBuV/m) - Limit (dBuV/m)



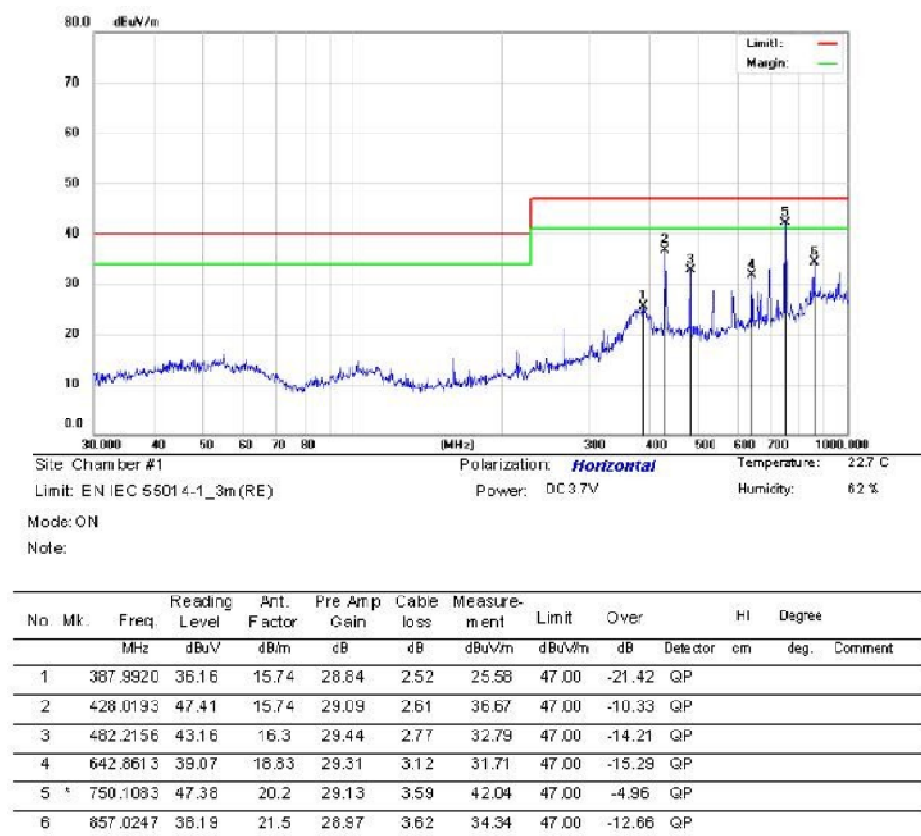
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RESULTS:



*:Maximum data x:Over limit !:over margin

Operator: Coyf

Remark:

1. Measurement (dBuV/m) = Antenna Factor(dB) -Amp Factor(dB) +Cable Loss(dB) + Reading(dBuV/m)
2. Over (dB) = Measurement (dBuV/m) - Limit (dBuV/m)



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3. IMMUNITY GENERAL PERFORMANCE CRITERIA DESCRIPTION

General performance criteria are defined in EN IEC 55014-2 clause 6. These criteria shall be used during the testing of primary functions where no relevant annex is applicable.

When assessing the impact of a disturbance on a function, the assessment should take into consideration the function's performance prior to the application of the disturbance and only identify as failures those changes in performance that are a result of the disturbance.

EN IEC 55014-2:

Performance criterion A: The apparatus shall continue to operate as intended during the test.

No degradation of performance or loss of function is allowed below a performance level

(or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion B: The apparatus shall continue to operate as intended after the test.

No degradation of performance or loss of function is allowed below a performance level

(or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however no change of actual operating state or stored data is allowed to persist after the test. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.

Performance criterion C: Temporary loss of function is allowed, provided the function is self recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

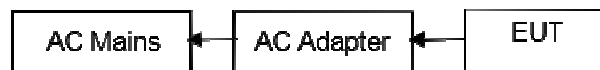
The selection, the specification of functions, and the permissible degradation is left to the responsibility of the manufacturer.

RESULTS:

4. ELECTROSTATIC DISCHARGE TEST

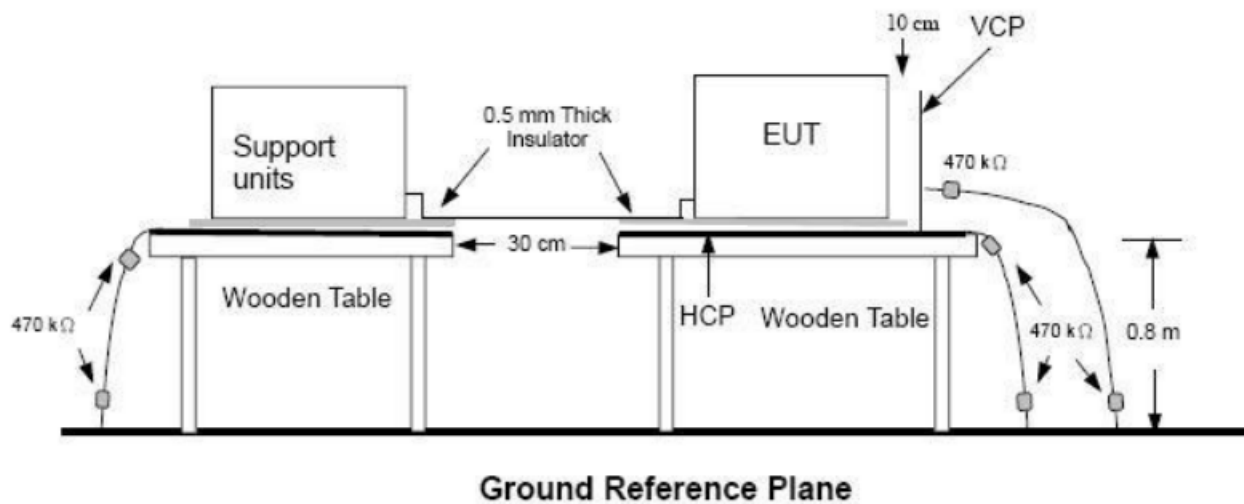
4.1. Block Diagram of Test Setup

4.1.1. Block Diagram of connection between the EUT and simulators



(EUT:TOY)

4.1.2. Block Diagram of ESD Test Setup



(EUT:TOY)



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RESULTS:

4.2. Test Standard

EN IEC 55014-2: 2021

(IEC 61000-4-2:2008 (Severity Level: 2 / Contact Discharge: $\pm 4\text{KV}$; Severity Level: 3 / Air Discharge:

$\pm 8\text{KV}$))

4.3. Severity Levels and Performance Criterion

4.3.1. Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	± 2	± 2
2.	± 4	± 4
3.	± 6	± 8
4.	± 8	± 15
X	Special	Special

Performance criterion: B



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RESULTS:

4.4. EUT Configuration

The configuration of EUT is listed in Section 4.1

4.5. Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 4.1. Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (Charging, ON) and measure them.

4.6. Test Procedure

4.6.1. Air Discharge

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

4.6.2. Contact Discharge

All the procedure shall be same as Section 4.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

4.6.3. Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

4.6.4. Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

4.7. Test Results

PASS.

Please refer to the following page.



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RESULTS:

Electrostatic Discharge Test Results

EMTEK(DONGGUAN) CO., LTD.

Applicant : JIANGSU SUNSHINE DONGSHENG I/E CO., LTD		Test Date : September 11, 2025	
EUT :	TOY	Temperature :	25 °C
M/N :	91252540344	Humidity:	57%
Power Supply :	AC 230V/50Hz, 3.7V from battery	Test Engineer:	Chen Li
Test Mode :	Charging, ON	Criterion :	B
		Atmospheric Pressure : 101kpa	
Air Discharge: ±2,4,8KV			
Contact Discharge: ±4KV # For each point positive 10 times and negative 10 times			
Location	Kind		Result
	A-Air Discharge		
	C-Contact Discharge		
HCP	Contact Discharge		PASS
VCP	Contact Discharge		PASS
Conductive parts	Contact Discharge		PASS
Non-conductive enclosure & Gap	Air Discharge		PASS
Note : No observable change.			

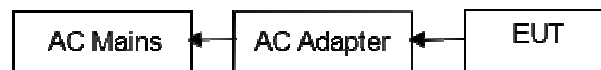
Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).

RESULTS:

5. FAST TRANSIENTS TEST

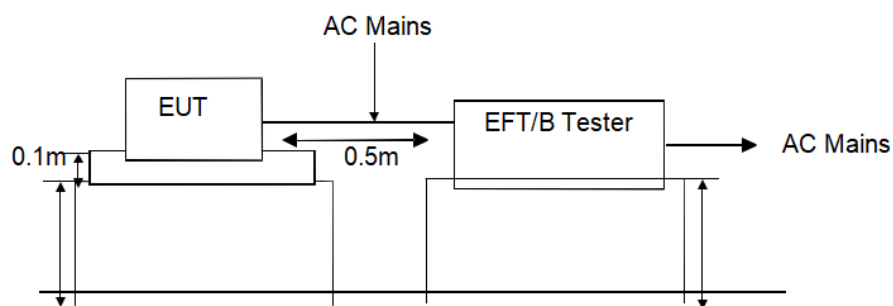
5.1. Block Diagram of Test Setup

5.1.1. Block Diagram of connection between the EUT and simulators



(EUT:TOY)

5.1.2. Block Diagram of EFT Test Setup



(EUT:TOY)

5.2. Test Standard

EN IEC 55014-2: 2021

(IEC 61000-4-4:2012, Severity Level, Level 2: 1KV)

5.3. Severity Levels and Performance Criterion

5.3.1. Severity level



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RESULTS:

Open circuit output test voltage and repetition rate of the impulses				
Level	On power port, PE		On I/O (Input/Output) Signal data and control ports	
	Voltage peak KV	Repetition rate KHz	Voltage peak KV	Repetition rate KHz
1.	0.5 KV	5 or 100	0.25 KV	5 or 100
2.	1 KV	5 or 100	0.5 KV	5 or 100
3.	2 KV	5 or 100	1 KV	5 or 100
4.	4 KV	5 or 100	2 KV	5 or 100
X	Special	Special	Special	Special
NOTE 1 Use of 5 KHz repetition rates is traditional; however, 100 KHz is closer to reality. Product committees should determine which frequencies are relevant for specific products or product types.				
NOTE 2 With some products, there may be no clear distinction, between power ports and I/O ports, in which case it is up to product committees to make this determination for test purposes.				
"X" is an open level. The level has to be specified in the dedicated equipment specification.				

Performance criterion: B



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RESULTS:

5.4. EUT Configuration

The configurations of EUT are listed in Section 5.1.

5.5. Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 5.1. Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (Charging) and measure them.

5.6. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

For DC output line ports:

No DC ports. It's unnecessary to test.

5.7. Test Results

PASS.

Please refer to the following page.



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RESULTS:

Fast Transients Test Results

EMTEK(DONGGUAN) CO., LTD.

Applicant : JIANGSU SUNSHINE DONGSHENG I/E CO., LTD

EUT : TOY

M/N : 91252540344

Power Supply: AC 230V/50Hz Criterion : B

Ambient Condition : 24 °C 58 % RH

Operation Mode : Charging

Line : ☒ AC Mains

☐ Line : ☐ Signal I/O Cable

☒ Coupling : Direct

☐ Coupling : Capacitive

Test Time : 120s

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
L、N	1KV	PASS	PASS

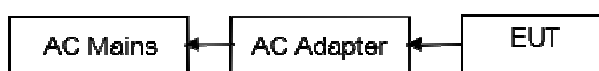
Note : No observable change.

RESULTS:

6. SURGE TEST

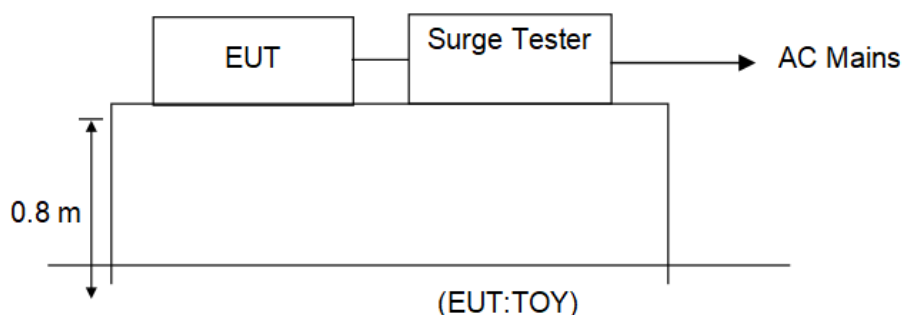
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of connection between the EUT and simulators



(EUT: TOY)

6.1.2. Surge Test Setup



6.2. Test Standard

EN IEC 55014-2: 2021

(IEC 61000-4-5: 2014+AMD1:2017, Severity Level: Line to Line: Level 2, 1.0KV, Line to Ground: Level 3, 2.0KV)

6.3. Severity Levels and Performance Criterion

6.3.1. Severity level

Severity Level	Open-Circuit Test Voltage KV
1	0.5



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RESULTS:

2	1.0
3	2.0
4	4.0
*	Special

Performance criterion: B

6.4. EUT Configuration

The configurations of EUT are listed in Section 9.1.

6.5. Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 6.1. Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (Charging) and measure them.

6.6. Test Procedure

- 1) Set up the EUT and test generator as shown on Section 6.1.2.
- 2) For line to line and line to ground coupling mode, respectively provide a 1.0KV and 2.0KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

6.7. Test Results

PASS.

Please refer to the following page.



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RESULTS:

Surge Test Results

EMTEK(DONGGUAN) CO., LTD.

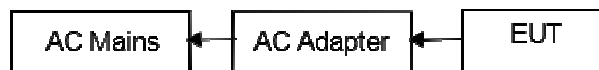
Applicant : <u>JIANGSU SUNSHINE DONGSHENG I/E CO., LTD</u>					Test Date : September 11, 2025
EUT : <u>TOY</u>					Temperature : 24 °C
M/N : <u>91252540344</u>					
Power Supply : <u>AC 230V/50Hz</u>					
Test Mode : <u>Charging</u>					Humidity : 58% Test Engineer : Chen Li
					Criterion : B
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Result
L-N	+	90 ⁰	5	1.0	PASS
	-	270 ⁰	5	1.0	PASS
Note : No observable change.					

RESULTS:

7. INJECTED CURRENTS TEST

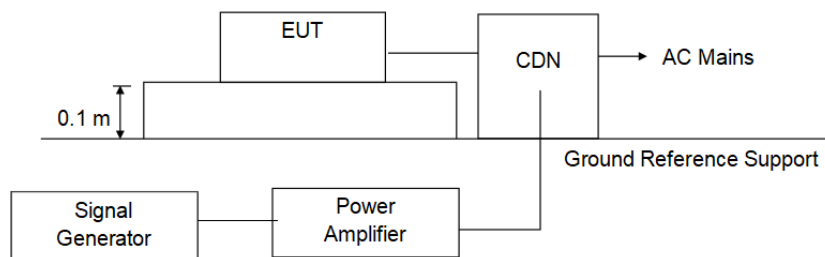
7.1. Block Diagram of Test Setup

7.1.1. Block Diagram of connection between the EUT and simulators



(EUT:TOY)

7.1.2. Block Diagram of Test Setup



(EUT:TOY)

7.2. Test Standard

EN IEC 55014-2: 2021

(IEC 61000-4-6:2023, Severity Level: 3V (rms), 0.15MHz ~ 80MHz)

7.3. Severity Levels and Performance Criterion

7.3.1. Severity level

Level	Field Strength V
-------	------------------



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RESULTS:

1.	1
2.	3
3.	10
X	Special

Performance criterion: A

7.4. EUT Configuration

The configurations of EUT are listed in Section 7.1.

7.5. Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 7.1. Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mod (Charging) and measure them.

7.6. Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 7.1.2.
- 2) Let the EUT work in test mode and measure it.
- 3) The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally,



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RESULTS:

the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.

- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

7.7. Test Results

PASS.

Please refer to the following page.



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RESULTS:

Injected Currents Test Results

EMTEK(DONGGUAN) CO., LTD.

Applicant : <u>JIANGSU SUNSHINE DONGSHENG I/E CO., LTD</u>				Test Date : September 11, 2025
EUT : <u>TOY</u>				Temperature : 24 °C
M/N : <u>91252540344</u>				Humidity : 58%
Power Supply : <u>AC 230V/50Hz</u>				Test Engineer : Chen Li
Test Mode : <u>Charging</u>				
Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 ~80	AC Mains	3V(rms)	A	PASS
_____Test Mode :				
Frequency Range (MHz)	Injected Position	Strength	Criterion	Result



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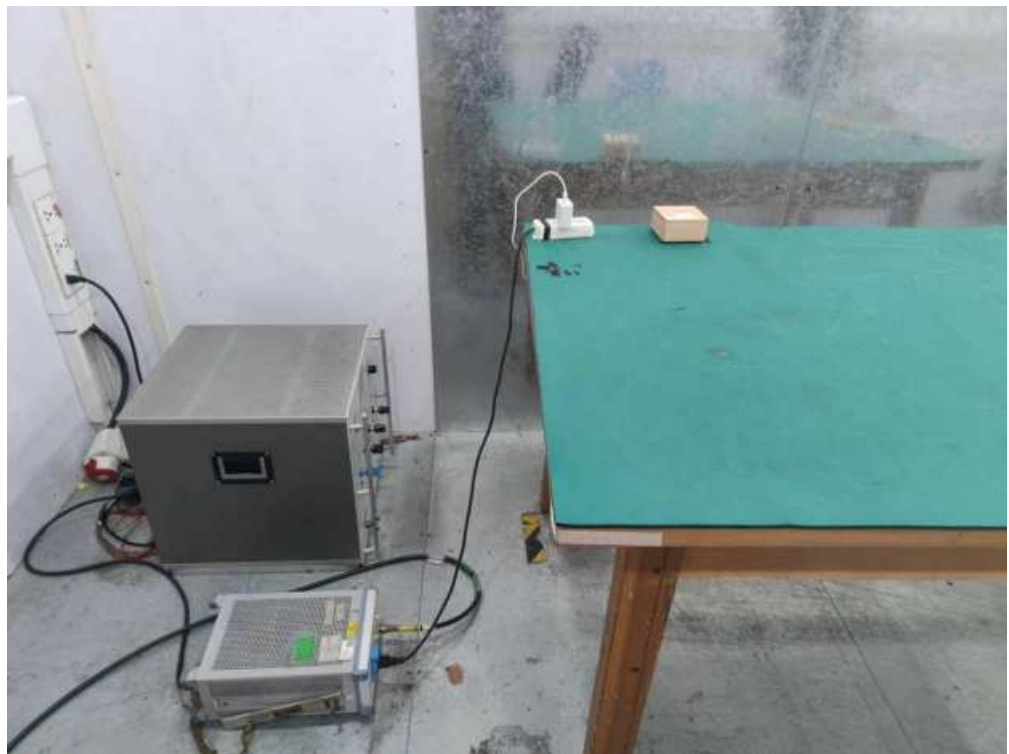
RESULTS:

Remark : 1. Modulation Signal:1KHz 80% AM Measurement Equipment : CDN : pCDN-M2 CDN-M3	Note : No observable change.
---	------------------------------

RESULTS:

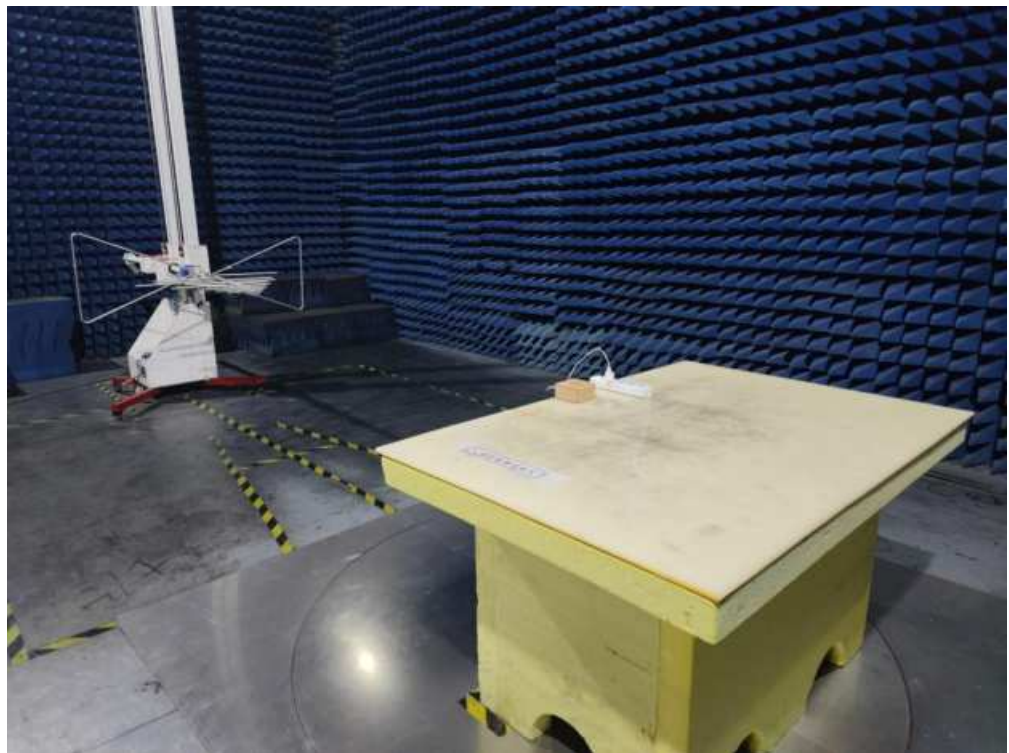
8. PHOTOGRAPH

8.1. Photo of Conducted Emission



RESULTS:

8.2. Photo of Radiated Emission



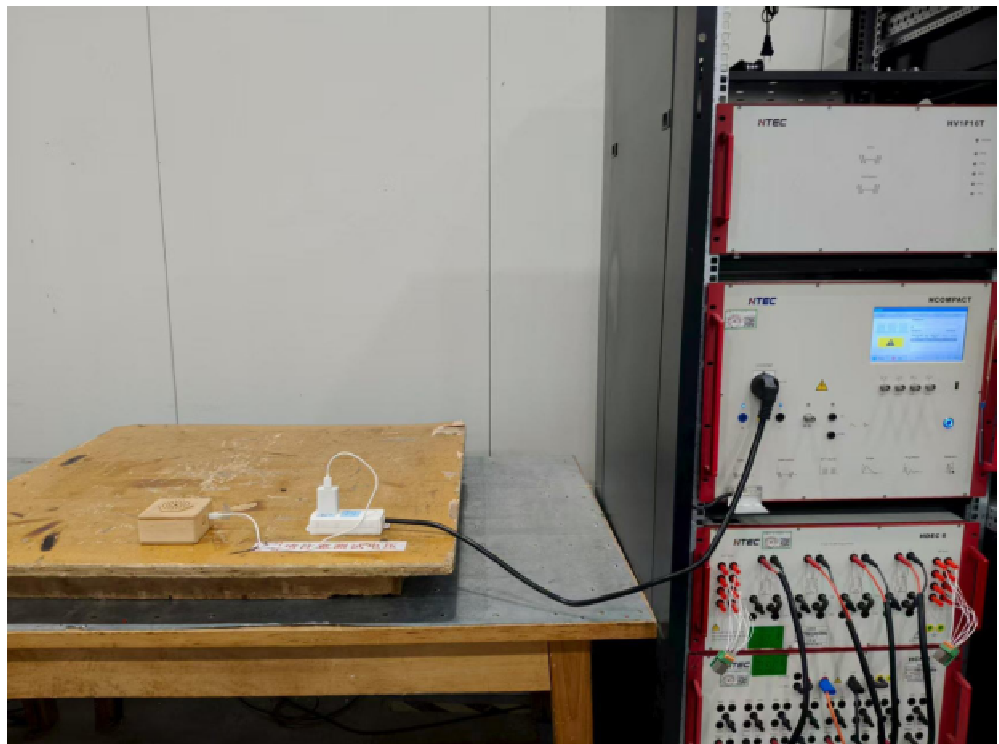
RESULTS:

8.3. Photo of Electrostatic Discharge Test



RESULTS:

8.4. Photo of Fast Transients Test



RESULTS:

8.5 Photo of Surge Test



RESULTS:

8.6 Photo of Injected Currents Test





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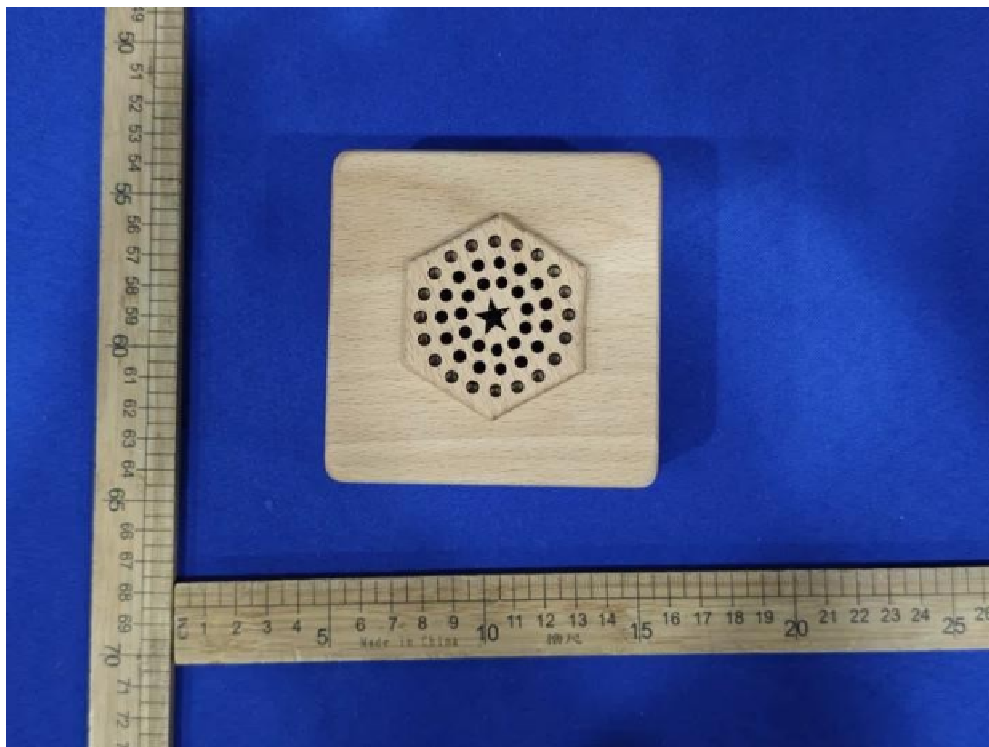
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RESULTS:

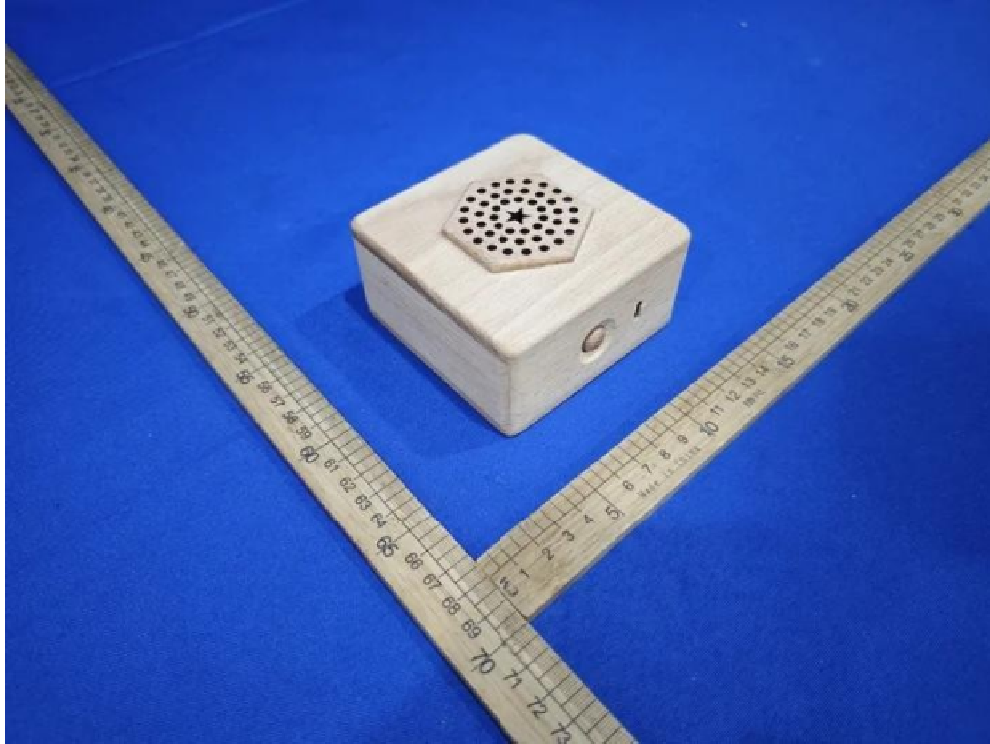
APPENDIX

(Photos of EUT)

RESULTS:



RESULTS:



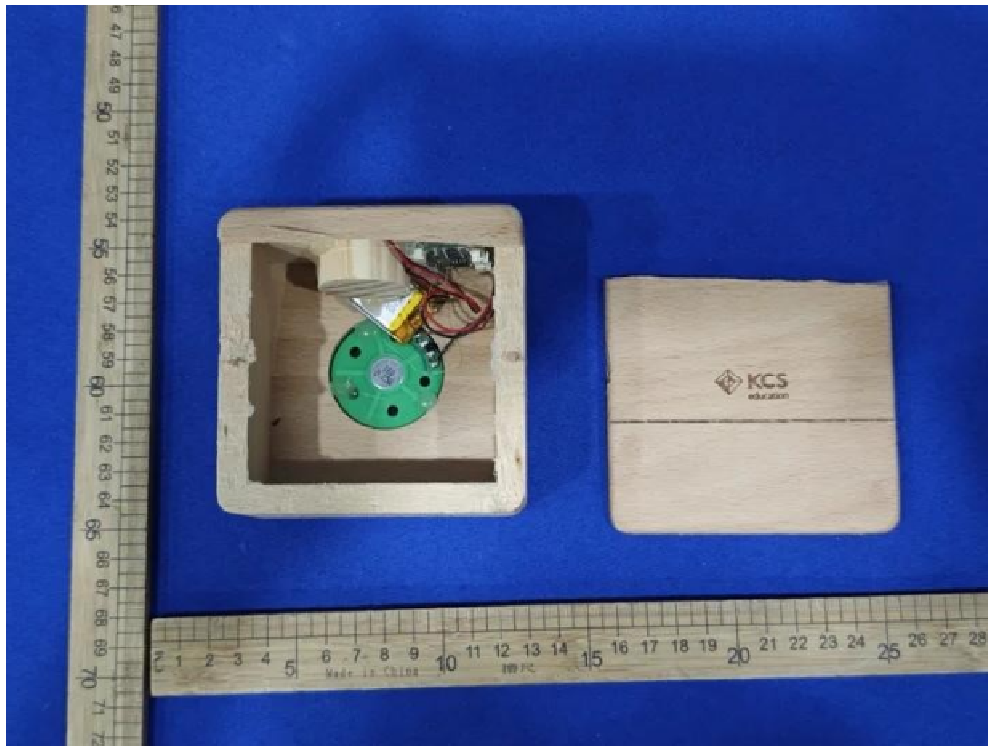
RESULTS:



RESULTS:



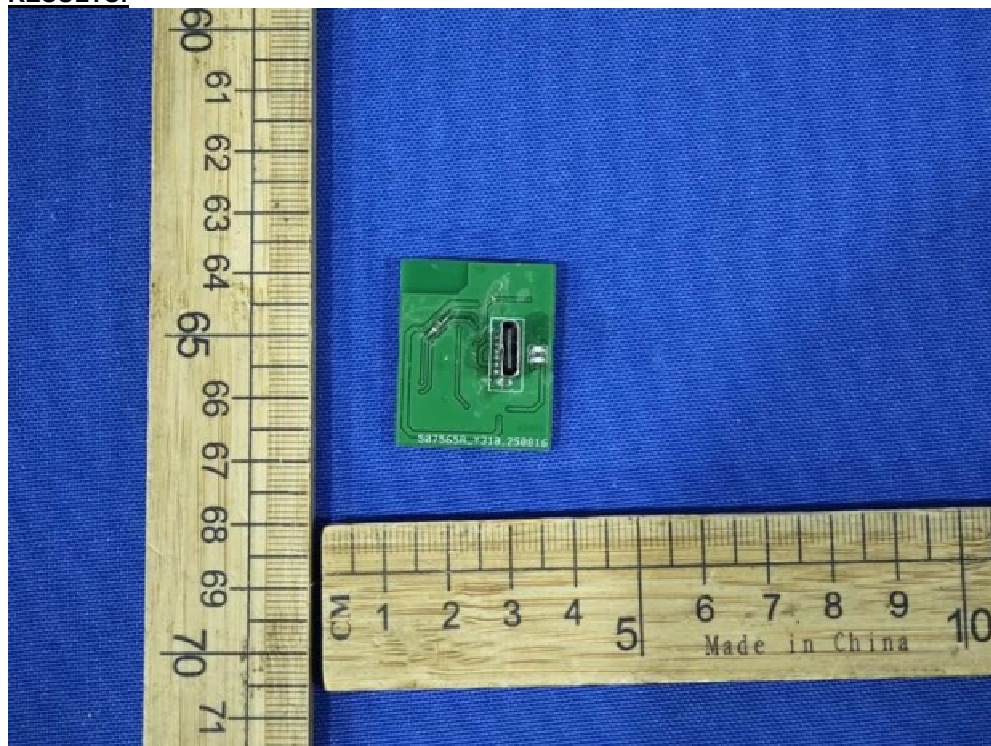
RESULTS:



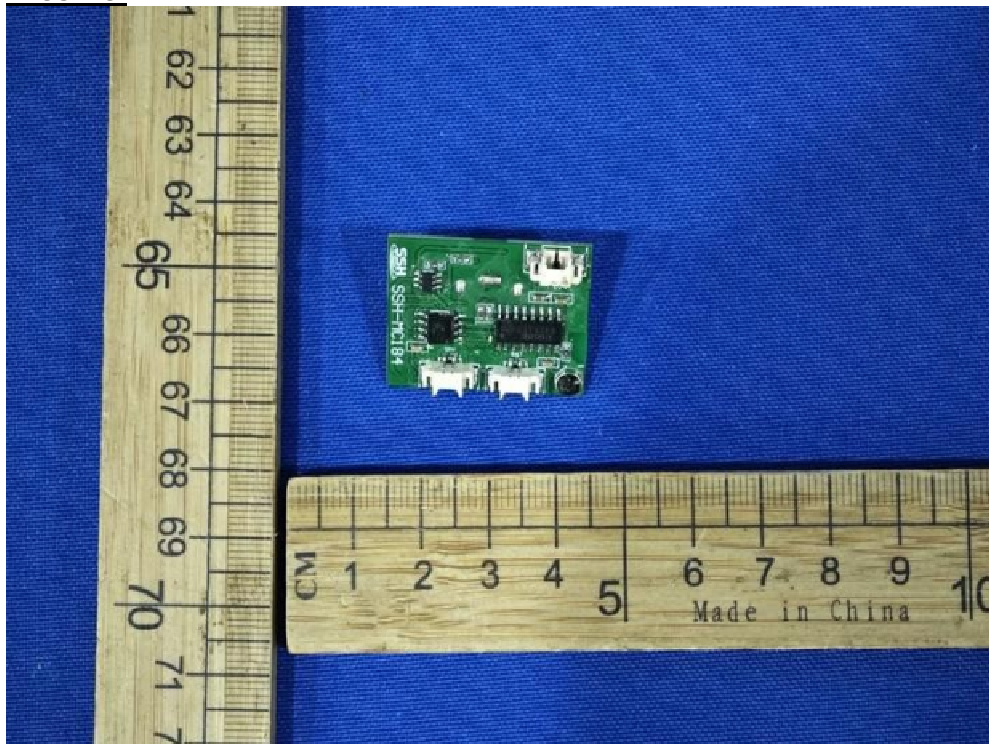
RESULTS:



RESULTS:



RESULTS:





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RESULTS:

As per European Standard EN IEC 62115:2020+A11:2020 on Safety of Electric Toys.

Power input: 3.7VDC (1×3.7VDC 400mAh type battery, non-replaceable) for Electric Toys.

Electric Operated Function: The loudspeaker is powered by battery.

Unless otherwise specified, full tests were performed on the model 91252540344.

Clause	Testing Items	Assessment
1.	Scope	--
2.	Normative references	--
3.	Terms and definitions	--
4.	General requirement	--
5.	General conditions for tests	--
6.	Criteria for reduced testing	NA
6.1	General	NA
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7.	Marking and instructions	NC
7.1	General	NC
7.2	Markings on electric toys	NC
7.2.1	Identification	NC
7.2.2	Electric toys with replaceable batteries	NA
7.2.3	Transformer toys and power supply toys	NA
7.2.4	Electric toys with more than one power supply	NA
7.2.5	Electric toys with detachable lamps	NA
7.2.6	Symbols	NC
7.2.7	Durability	NC
7.3	Instructions and markings on packaging	NC
7.3.1	General	NC
7.3.2	Transformer toys and power supply toys	NA
7.3.3	Electric toys that are used with replaceable batteries	NA
7.3.3.1	General	NA
7.3.3.2	Coin batteries	NA
7.3.3.3	Button batteries	NA
7.4	Instructions for electric toys that can be connected to class I equipment	NA



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RESULTS:

Clause	Testing Items	Assessment
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8.	Power input	NA
9.	Heating and abnormal operation	P
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P (See table 1)
9.4	Normal operation with insulation short-circuited	NA
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	NA
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	P (See table 1)
9.9	Fault condition in electronic circuits	NA
9.10	Compliance criteria	P
10.	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11.	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
12.	Mechanical strength	P (See table 2)
12.1	Enclosures	P
12.2	Attachment strength	P
13.	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.4.1	Small batteries	P
13.4.2	Other batteries	NA
13.4.3	Electrolyte leakage	P
13.4.4	Electric toys placed above a child	NA
13.4.5	Parallel connection of batteries	NA
13.4.6	Battery compartment fasteners	NA
13.5	Plug and sockets	NA



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RESULTS:

13.6	Charging batteries	P
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	P
13.10	Speed limitation of ride-on electric toys	NA



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RESULTS:

Clause	Testing Items	Assessment
14.	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	P
15.	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	NA
15.3	Transformers and power supplies	NA
15.4	Battery chargers	NA
15.5	Batteries	See Remark1
16.	Screws and connections	NA
16.1	Fixings	NA
16.2	Connections	NA
17.	Clearances and creepage distances	P
18.	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P (See table 3)
18.2.1	General	P
18.2.2	Non-metallic parts	P
18.2.3	Insulating material	NA
19.	Radiation and similar hazards	--
19.1	General	See Remark 2
19.2	Optical radiation Electric toys incorporating lasers and or light emitting diodes (LED) or UV emitting lamps shall comply with Annex E. Electric toys incorporating LEDs shall comply with 19.E.2. Electric toys incorporating lasers shall comply with 19.E.3. Electric toys incorporating UV-emitting lamps shall comply with 19.E.4.	NA
19.3	Other electromagnetic radiation Measurements methods for electric toys with an integrated field source that may produce harmful electromagnetic radiation are given in Annex I.	NA
Annex D	Electric toys with protective electronic circuits D.1 General During the tests of 9.9 an electronic circuit prevents the hazardous conditions listed in 9.10 D.2 Dangerous malfunction D.2.1 General	NA



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RESULTS:

	The electric toy causes an unintended operation that may impair safety or present a dangerous malfunction due to influence from electromagnetic phenomena (EMP). D.2.2 Electrostatic discharge In accordance with IEC 61000-4-2:2008, test level 4 D.2.3 Radiated fields In accordance with IEC 61000-4-3:2006+A1:2007+A2:2010, test level 3, cover 80 MHz to 1000 MHz and 1,4 GHz to 2,0 GHz. D.2.4 Transient bursts In accordance with IEC 61000-4-4:2012. -Test level 3 with a repetition rate of 5 kHz is applicable for signal and control lines. - Test level 4 with a repetition rate of 5 kHz is applicable for the power supply lines. D.2.5 Voltage surges In accordance with IEC 61000-4-5:2014, -Test level 4 is applicable for the line-to-line coupling mode, a generator having a source impedance of 2Ωbeing used. - Test level 4 is applicable for the line-to-earth coupling mode, a generator having a source impedance of 12Ωbeing used. D.2.6 Injected current In accordance with IEC 61000-4-6:2013 test level 3 being applicable. During the test, all frequencies between 0,15 MHz to 80 MHz are covered. D.2.7 Voltage dips and interruptions Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11:2004. D.2.8 Mains signals In accordance with IEC 61000-4-13:2002/AMD2:2015, Table 11 with test level class 2 using the frequency steps according to Table 10.	
Annex J	Safety of remote controls for electric ride-on toys	NA

Remark: P = Pass

NA= Not applicable

NC=Test object does not considered by applicant

Remark:

1. Applicant needs to ensure that the Secondary batteries supplied with electric toys shall comply with IEC 62133.
2. This report only covers the essential safety requirements concerning electrical properties on the safety of toys and in order to comply with EN IEC 62115:2020+A11:2020, electrical toys also have to comply with EN71-3 for the toxicological hazards.



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RESULTS:

Table1:

Heating and abnormal operation

Temperature rise (Normal operation):		
Ambient temperature : (Deg. C)		25.0°C
Location	Temperature Rise (K)	Limit (K)
Discharge Mode:		
Battery surface	3.9	45
Enclosure close to battery	1.2	50
Button	0.5	50
Accessible surface (Max.): Enclosure close to PCB	0.6	50
Charge Mode:		
Battery surface	2.8	45

Temperature rise (Abnormal operation): supplied with a voltage of 42Vdc		
Ambient temperature : (Deg. C)		25.0°C
Location	Temperature Rise (K)	Limit (K)
Battery surface	1.0	45
Enclosure close to battery	0.4	50
Button	0.3	50
Accessible surface (Max.): Enclosure close to PCB	0.8	50
Product damaged immediately, can't continue to work normally;		
No flames, no dangerous substances, batteries not leak fluids or erupt and the enclosures not deform;		

Table 2:

Mechanical strength

Testing Location	Impact Energy (J)	Test times	Result
Enclosure	0.5	3	No defect



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RESULTS:

Table 3:

Resistance to heat and fire

Glow-wire test (550 Deg. °C)		
Location / Part	Test temperature (°C)	Result Observation
Plastic enclosure for fixing Battery	550	No flame, no molten drop

RESULTS:

Picture



Figure 1: Front Overview

RESULTS:



Figure 2: Rear Overview



Figure 3: Internal view

RESULTS:

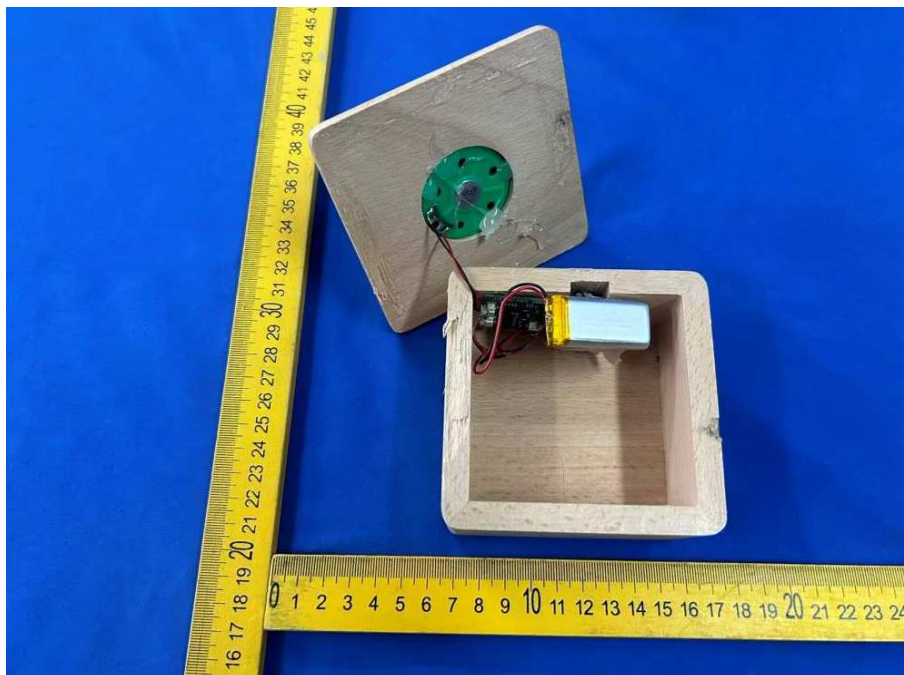


Figure 4: Internal view

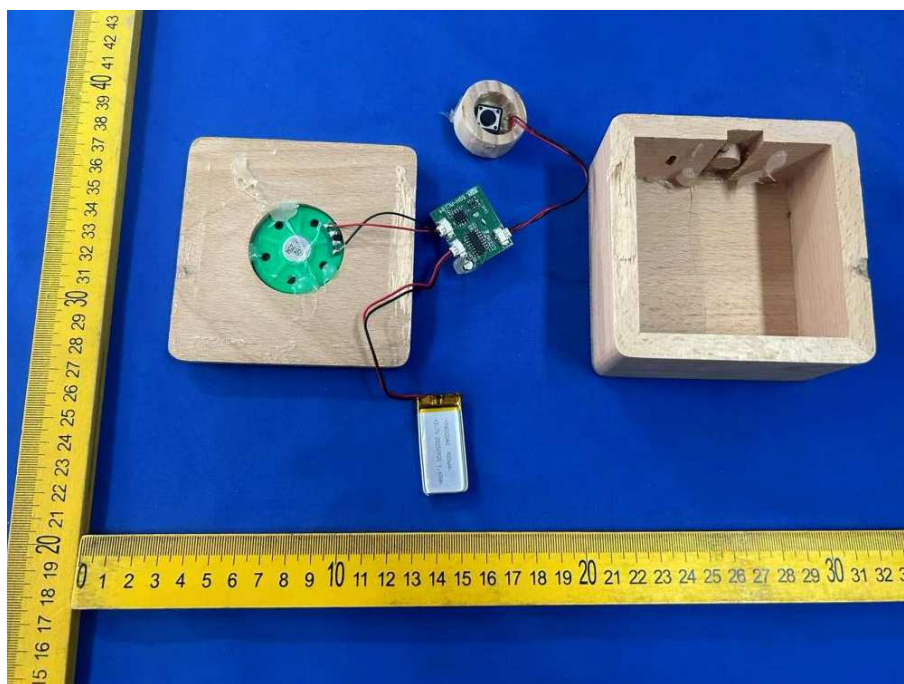


Figure 5: Internal view

RESULTS:

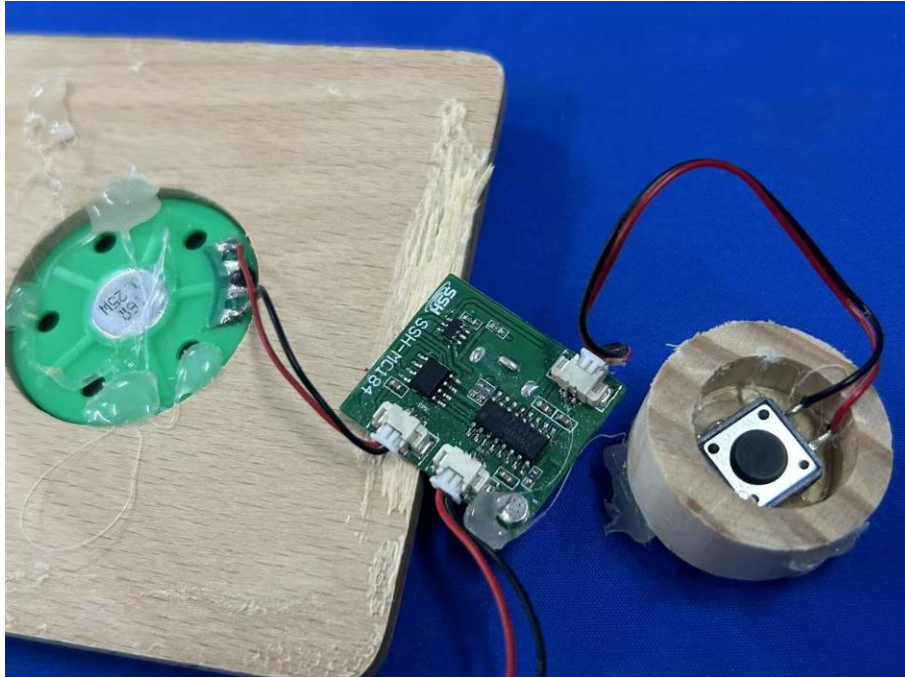


Figure 6: Internal view

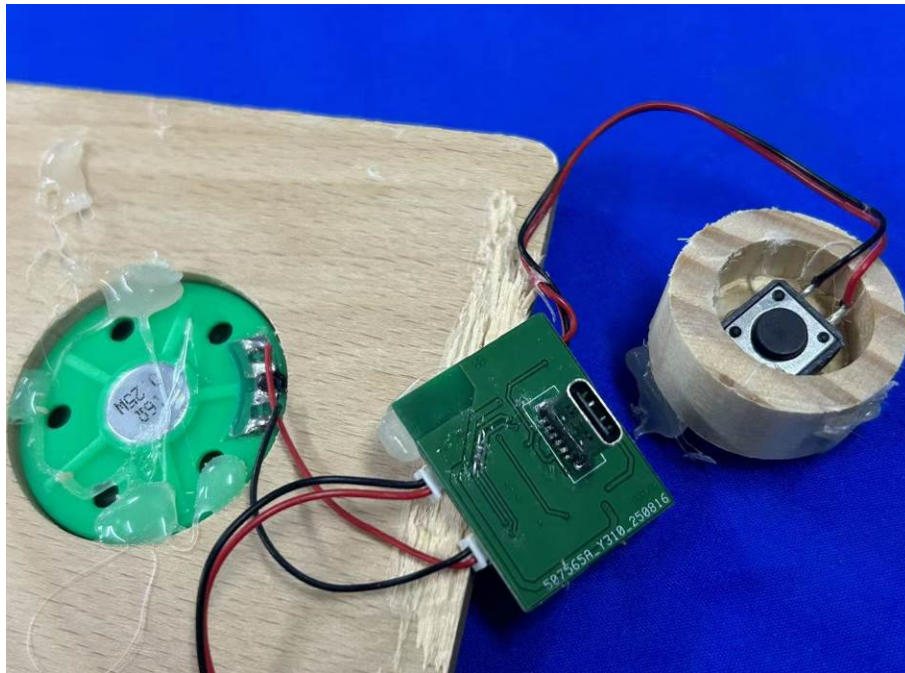


Figure 7: Internal view

RESULTS:



Figure 8: Battery view

RESULTS:

EXHIBIT



-----End The Report-----