

Test Report

Number: GZHH00242421

Applicant: GUANGDONG XIN YU TECHNOLOGY INDUSTRIAL CO.,LTD.
LAI MEI INDUSTRIAL ZONE,
CHENGHAI DISTRICT, SHAN TOU,
GUANGDONG, CHINA

Date: Jun 23, 2017

Attn: MS LIN

Sample Description:

Twelve (12) styles of submitted sample said to be :

No.	Item No.	Item Name	Scale	Frequency
1	3803	Honda NSX	1:18AA	2.4G
2	3807	Lamborghini Centenario	1:12	2.4G
3	3807(方向盘)	Lamborghini Centenario	1:12	2.4G
4	3808	Lamborghini Centenario	1:12AA	2.4G
5	3809	Lamborghini Centenario	1:18	2.4G
6	3810	Lamborghini Centenario	1:18AA	2.4G
7	3811	Lamborghini Centenario	1:24	2.4G
8	3812	Lamborghini Centenario	1:24AA	2.4G
9	3813	Lamborghini Centenario	1:32AAA	2.4G
10	18001	Racer	1:18	27Mhz 三通
11	XQ078-AA	Ferrari 599GTB Fiorano AA	1:24	27Mhz
12	3802	Handa NSX	1:18	2.4G

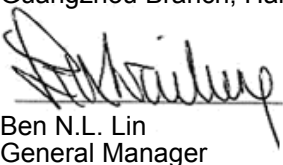
Labelled Age Group : "Choking Hazard-Small Parts. Not For Children Under 3 Years"
Applicant Specified Age : Over 3 years for item #3813/3802/3803/3809/3810/3811/3812/XQ078-AA
Grading for Testing : Over 8 years for item #3807/3807(方向盘)/3808
Packaging Provided by Applicant : Yes
Country of Origin : China

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Ben N.L. Lin
General Manager



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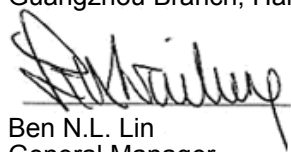
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Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1:2014 for mechanical and physical properties	Pass
	EN71-2: 2011+A1:2014 Flammability test	Pass
Tested component(s) of submitted samples	EN71-3:2013+A1:2014 on migration of certain elements	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines


Ben N.L. Lin
General Manager



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Tests Conducted

1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014

The submitted samples were undergone the following abuse tests:

Test	Clause	Parameter
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
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	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	P
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising 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
6	Packaging	NA
7	Warnings, markings and instructions for use	

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Clause	Testing Items	Assessment
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Remark: P = Pass NA = Not Applicable

= Age warning statement, graphical symbol and the indication of hazard was found on the packaging.



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Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

- Manufacturer's name was on the packaging and toy.
- Manufacturer's address was on the packaging.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was on the packaging.
- CE marking was on the packaging and toy.

Date sample received : Jun 08, 2017

Testing period : Jun 08, 2017 to Jun 17, 2017

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not Applicable

Date sample received : Jun 08, 2017

Testing period : Jun 08, 2017 to Jun 17, 2017



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3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(2)	(3)	(4)	(5)		
Aluminium (Al)	8711	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	27	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND	ND [#]	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	13	ND	14	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	17	ND	ND	ND	2.5	180000
Organic tin **	ND ^Δ	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(6)	(8)	(10)	(11)		
Aluminium (Al)	5389	1931	1260	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND	ND [#]	ND [#]	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	79	ND	ND	ND	2.5	180000
Organic tin **	ND ^Δ	ND	ND	ND	2.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(21)	(23)	(24)	(25)		
Aluminium (Al)	344	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND*	ND	ND	ND	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	18	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	18	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	7.4	66	12	2.5	180000
Organic tin **	ND	ND ^Δ	ND ^Δ	ND ^Δ	2.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000



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Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component					
	(29)	(36)	(37)	(38)		
Aluminium (Al)	ND	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND [#]	ND	ND	0.1	0.2
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	11	10	7700
Lead (Pb)	ND	ND	ND	ND	10	160
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	5.0	5.4	127	2.5	180000
Organic tin **	ND	ND ^Δ	ND ^Δ	ND ^Δ	2.0	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)			Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component				
	(43)	(44)	(46)		
Aluminium (Al)	ND	ND	ND	300	70000
Antimony (Sb)	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	5	17
Chromium (III) (Cr III) **	ND	ND	ND	10	460
Chromium (VI) (Cr VI) **	ND [#]	ND	ND [#]	0.1	0.2
Cobalt (Co)	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	10	160
Manganese (Mn)	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	100	56000
Tin (Sn)	ND	3.7	ND	2.5	180000
Organic tin **	ND	ND ^Δ	ND	2.0	12
Zinc (Zn)	ND	ND	ND	100	46000



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Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1), (12)to(20), (22), (26)to(28), (30)to(35), (39)to(42), (45)		
Aluminium (Al)	ND	300	70000
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) **	ND	10	460
Chromium (VI) (Cr VI) **	ND	0.1	0.2
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	160
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

ND = Not detected

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.



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Tests Conducted

Tested Component(s):

- (1) Multicolor coatings on plastic (body, roof, rear, logo, rear, logo, bumper, rear base, exhaust pipe of car of #3807, #3808, #3810, #3809, #3812, #3813, #3811, window of car of #3813).
 - (2) Coatings (silver color, light black) on plastic (wheel, brake of car of #3807, #3808, #3810, #3809, #3812, #3813, #3811) (sample weight: 21.1mg).
 - (3) Coatings (rose-red, silver color) on plastic (button, knob of steering wheel of #3807, #3812) (sample weight: 30.1mg).
 - (4) Light black coating on soft plastic (mirror of car of #3807, #3808, #3810, #3809, #3812, #3813, #3811) (sample weight: 12.2mg).
 - (5) Coatings (green, yellow, red, black) on plastic (body of car of #XQ078-AA) (sample weight: 74.5mg).
 - (6) Coatings (transparent red, silver color) on plastic (taillight, wheel, logo, brake, exhaust pipe of car of #XQ078-AA, taillight, brake of car of #3803) (sample weight: 14.0mg).
 - (7) @ Red coating on soft plastic (mirror of car of #XQ078-AA).
 - (8) Coatings (bright black, metallic red, silver color, matt-black) on plastic (body, window, logo, front, rear of car of #3803, #3802) (sample weight: 64.4mg).
 - (9) @ Coatings (metallic red, bright black, silver color) on soft plastic (mirror of car of #3803, #3802).
 - (10) Coatings (gunmetal, silver color) on plastic (wheel of car of #3803, #3802, headlight of car of #18001) (sample weight: 10.4mg).
 - (11) Dark grey coating on plastic (window of car of #18001) (sample weight: 74.5mg).
 - (12) Off-white plastic excluding coating (body of car of #3807, #3808, #3810, #3809, #3812, #3813, #3811).
 - (13) White soft plastic excluding coating (mirror of car of #3807, #3808, #3810, #3809, #3812, #3813, #XQ078-AA, #3803, #3811, #3802).
 - (14) Bright black plastic (window, sides of base of car of #3807, #3808, #3810, #3809, #3812, #XQ078-AA, #3811).
 - (15) Light black plastic excluding coating (rear base of #3807, #3808, #3810, #3809, #3812, #3811).
 - (16) Black plastic (chassis, wheel of car, body of steering wheel, remote control, knob, trigger of remote control of #3807, #3808, chassis, wheel of car, body, rocker of remote control of #3810, #3809, #3812, #3813, #3803, #3802, #3811, chassis, wheel of car, rocker of remote control of #XQ078-AA, chassis, body of car, body, rocker of remote control of #18001).
 - (17) White plastic (direction adjustment, clip of battery cover, connector of wheel of car of #3807, #3808, direction adjustment, connector of wheel of #3810, #3809, #3812, #3813, #XQ078-AA, #3803, #3802, #18001, #3811).
 - (18) Transparent plastic label with inaccessible silver color coating (mirror of car of #3807, #3808, #3810, #3809, #3812, #XQ078-AA, #3803, #3802, #3811) (sample weight: 20.0mg).
 - (19) Black soft plastic (tire of car of #3807, #3808, #3810, #3809, #3803, #3802).
 - (20) Black plastic (switch of car, steering wheel of #3807, remote control of #3807, #3808, #3810, #3809, #3812, #3813, #XQ078-AA, #3803, #3802, #18001, #3811).
- *****



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Tests Conducted

Tested Component(s):

- (21) White paper label with transparent plastic film and inaccessible coatings (sticker of steering wheel, car of car of #3807, car of #3808, #XQ078-AA, remote control of #XQ078-AA, #18001).
- (22) Transparent plastic (headlight of car of #3807, #3808, #3810, #3809, #3812, #3813, #XQ078-AA, #3811, #3802, #3803, taillight of car of #XQ078-AA).
- (23) Transparent glue (fastener of car of #3807, #3808, #3810, #3809, #3812, #3803, #3811, #3802).
- (24) Black soft plastic with white printing (heating shrinkable pipe of car of #3807, #3808, #3812, #3803, #3802).
- (25) Transparent adhesive plastic tape (fastener of wire covering of car of #3807, #3808).
- (26) Red soft plastic (wire covering of car of #3807, #3808).
- (27) Black soft plastic (wire covering of car of #3807, #3808).
- (28) Black soft plastic (base cushion of steering wheel of car of #3807).
- (29) Transparent red plastic (LED of remote control of #3807, #3808, #3810, #3809, #3812, #3813, #XQ078-AA, #3803, #3811, #3802) (sample weight: 42.2mg).
- (30) Black soft plastic (antenna of remote control of #3810, #3809, #3812, #3813, #3803, #3811, #3802).
- (31) Black soft plastic (tire of car of #3812, #3813, #3811).
- (32) Red plastic (body of car of #XQ078-AA).
- (33) Transparent orange plastic (both sides of car of #XQ078-AA) (sample weight: 16.7mg).
- (34) Dark red plastic (body of remote control of #XQ078-AA).
- (35) Orange plastic excluding coating (body, window, logo, front, rear of car of #3803, #3802).
- (36) Red soft plastic (wire covering of car of #3803, #3802).
- (37) Black soft plastic (wire covering of car of #3803, #3802, #18001).
- (38) Green/yellow PCB (PCB of car of #3803, #3802).
- (39) Transparent plastic (tray of car of #3803, #3802).
- (40) Bright black soft plastic (bumper of car of #18001).
- (41) Black soft plastic (tire of car of #18001).
- (42) Green plastic (wheel of car of #18001).
- (43) Bright black soft plastic (antenna of remote control of car of #18001).
- (44) Bright black plastic (tip of antenna of remote control of car of #18001).
- (45) Light red soft plastic (thick wire covering of car of #3802).
- (46) Light black soft plastic (thick wire covering of car of #3802).

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.



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(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III : Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Date sample received: Jun 08, 2017, Jun 15, 2017, Jun 16, 2017 & Jun 19, 2017

Testing period: Jun 08, 2017 to Jun 21, 2017



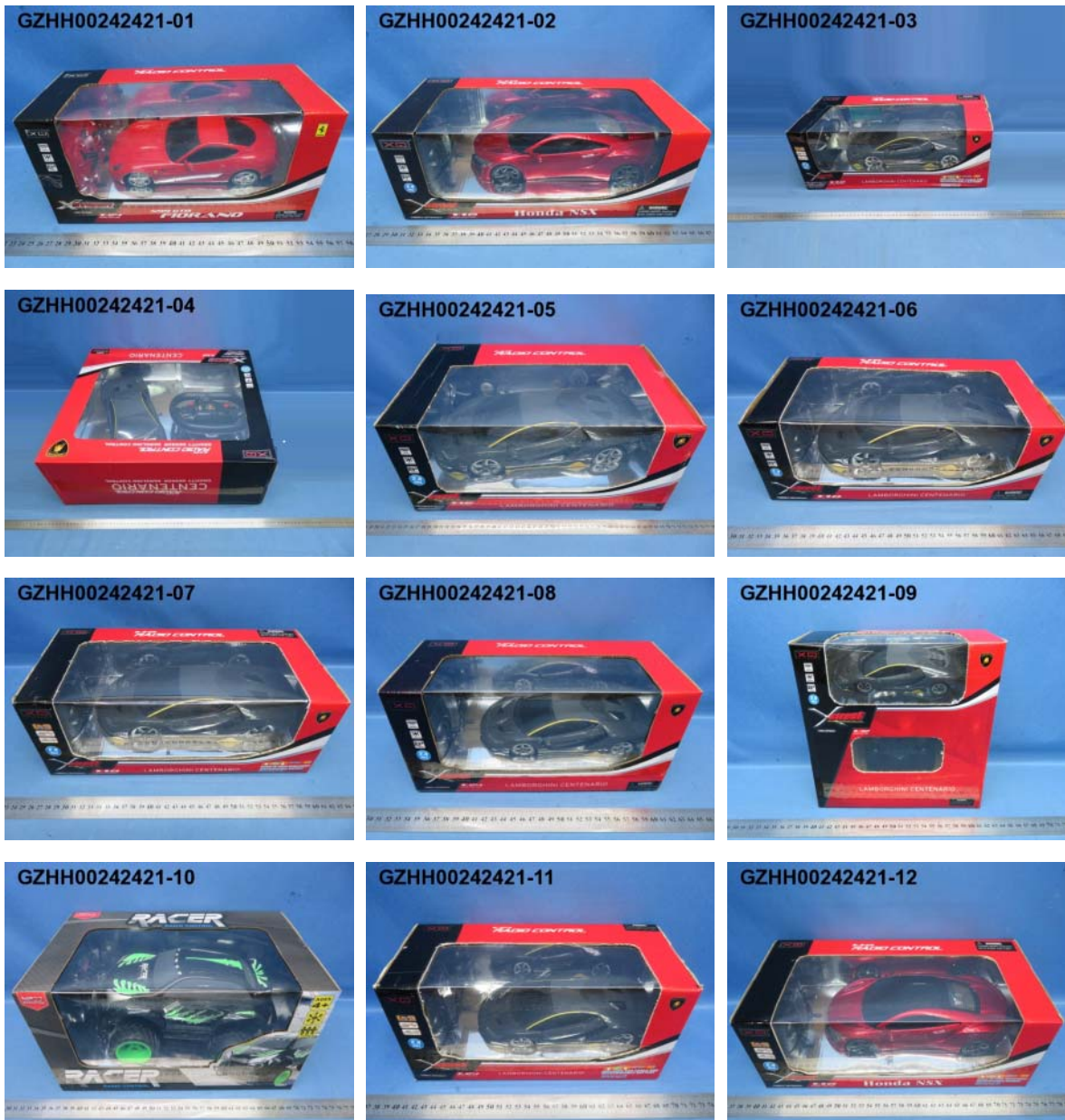
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Tests Conducted



End of report

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