

MAY CHEONG TOY PRODUCTS FTY., LTD

TEST REPORT

SCOPE OF WORK

SAR ASSESSMENT—MODEL: 81018(13086/81077)

ADDITIONAL MODELS: SEE PAGE 3

REPORT NUMBER

SZHH01152706-002S5

ISSUE DATE

30 OCT 2019

[REVISED DATE]

18 DEC 2019

PAGES

10

DOCUMENT CONTROL NUMBER

EN 62479_b

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TEST REPORT

Applicant: MAY CHEONG TOY PRODUCTS FTY., LTD
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI
EAST, KOWLOON, HONG KONG

Intertek Report No. : SZHH01152706-002S5
Date: 18 Dec 2019

Sample Description

Product : 1:24 Radio Control Vehicles, Assorted
Additional Names: See Page 3
Model No. : 81018(13086/81077)
Additional Models : See Page 3
Brand Name : Maisto
Electrical Rating : Controller Unit: DC 3.0V (2 x 1.5V AAA batteries)
Car Unit: DC 3.0V (2 x 1.5V AA batteries)
Date Received : 11 May 2017
Date Test Conducted : 11 May 2017 to 21 May 2017
Test Requested : Test for compliance with EN 62479: 2010
Test Method : EN 62479: 2010
Test Result : See the attached sheets
Conclusion : The submitted samples Complied with the above safety standard. But the note should be noted.

Remark: This report base on the previous report with report No. SZHH01152706-002S4 dated 30 Oct 2019. Only add model number, don't test after engineer evaluate.

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Prepared and Checked By:

Approved By:

Sign On File
Maura Wang
Engineer

Jimmy Wen
Assistant Manager
Date: 18 Dec 2019

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Intertek Testing Services Shenzhen Ltd.

West Side of 1/F and 3,4,5/F of Bldg. 1, 1-5/F of Bldg. 3,
Yuanzheng Science and Technology Industrial Park, No.4012,
Wuhe Ave. North, Bantian Street, Longgang District, Shenzhen

Tel: +86755 2602 0111
Fax: +86755 2683
7118\119
www.intertek.com.cn
www.intertek.com



TEST REPORT

Test Results:

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EN 62479: 2010

<u>Clause</u>	<u>Title/Description</u>	<u>Result</u>
1	Scope	
2	Normative references	--
3	Terms and definitions	--
4	Compliance criteria	Complied (See Note)
5	Assessment report	--

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TEST REPORT

Product Description:

Intertek Report No. : SZHH01152706-002S5

Product Description:

The equipment under test (EUT) is a 1:24 Radio Control Vehicles, Assorted operating at 27.145MHz. The EUT consisted of one transmitter (Controller Unit) and one receiver (Car Unit). The Controller Unit is intended to operate from DC 3.0V (2 x 1.5V AAA batteries). The Car Unit is powered by DC 3.0V (2 x 1.5V AA batteries). For more detail information pls. refer to the user manual.

The model: 81018 is package numbers which include a transmitter and a receiver, the transmitter model number is 13086, receiver model number is 81077. The additional transmitter models: 12093, 13044, 13092 are same as the model: 13086 and the additional package numbers are same as the model: 81018 in hardware aspect. Theirs models are difference in the appearance and model number and model names.

The additional package numbers corresponding to product name listing:

Production name	Model No.
1:24 Licensed R/C Vehicles, Asst. ; 1:24 R/C Asst.;	81016/81017/81018/81056/81141/81217/
1:24 Radio Control vehicles, Assorted;	83018 (81051/81052/81053/81054/81055/81057/
1:24 CSRC with working headlights Asst.;	81058/81059/81061/81062/81063/81064/81065/
1:24 CSRC with working headlights Asst.;	81066/81067/81068/81073/81074/81078/81079/
1:24 R/C with stick controller, Asst.;	81082/81086/81091/81126/81142/81087/81088/
1:24 R/C in mailer box pack;	81089/81159/81185/81186/81090/81160/81501/81502);
1:24 H-D Custom RC VW Van Samba;	81681(81144)81165 (10043/10044);
Radio Control Vehicle 7.5" non-licensed R/C;	81250(81251/81252/81253/81254/81255);
1:14 R/C Formula, asst. ; 1:24 Race R/C, Asst.;	81140 (81145/81146/81147/81148/81181/81194);
HD RC Motorcycle - XL 1200N Nightster With Rider	81660(81661) ; 81190/81191/81074/81084/ 81143/ 81127 ;
1:24 Ferrari RC - Ferrari SF15-T;	81202(12051/12118); 82066/82086(15961/13086);
1:24 Red Bull RC - Infiniti Red Bull Racing RB11;	82040 (82041/82042); 81210
Radio Control Vehicle 1:24 Formula R/C - Ferrari F138;	(81211/81212/81213/8124/81215/81216);
Radio Control Vehicle 1:18 R/C Red Bull Racing RB9;	82070(82075/82076/82077/82078/82079/
Radio Control Vehicle 1:24 R/C Red Bull Racing RB9;	82080/82081/82082/82083/82084);
1:16 R/C Recon Rove; Radio Control Vehicle Light Runners R/C, Asst. ;Cyklone	82054/ 82094 (16932 /16890);
360 ; Cyklone 360; 1:16 Harley-Davidson Custom RC ;1:24 R/C in horizontal	82170(82164/82165/82166/82167/82168/82169);
smaller box;	81276, 81272P, 82091,
1:10 Badlanders asst.; Cyklon Twist / Cyklon Twist;	81219/81204/81380/81381/81382/
1:18 Vision GT RC, asst.; R/C CYKLONE 360 TURBO POLICE; 1/14 R/C	81383/81384/81385/81386/81387/81388/81389/81390
Chevrolet Camaro SS PATROL POLICE; 1:24 RC Samba bus with Light &	82048/81504/81506
Sound function, emergency decoration;	81442/82503(18797)
1:24 Red Bull RC - Infiniti Red Bull Racing RB13	81507/81508/81509/81510/81511/81512/81513/81514/
1:24 Racing Series RC - 2017 Ferrari Formula 1 SF70-H	81515/81516/81517/81518/81519/81520
	82321/82322/82323/82324/82325

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Note:

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- (1) When determining the test conclusion, the Measurement Uncertainty of test has been considered: Measurement uncertainty is ± 4.8 dB at a level of confidence of 95%.
- (2) The test performed is that required to demonstrate compliance with the technical specifications and the essential requirements of Article 3.1(a) health of the Radio Equipment Directive (2014/53/EU) - RED for regulatory purposes.
- (3) Conformity assessment method refers to clause 4.2 of EN 62479: 2010, and compares with the Low-power exclusion level stated in Annex A of EN 62479: 2010. When SAR is the basic restriction, a conservative minimum value for Pmax can be derived, equal to the localized SAR limit (SAR_{max}) multiplied by the averaging mass (m):

$$P_{max} = SAR_{max} m \quad (A.1)$$

Example values of Pmax according to Equation (A.1) are provided in Table A.1 for cases described by the ICNIRP guidelines [1], IEEE Std C95.1-1999 [2] and IEEE Std C95.1-2005 [3] where SAR limits are defined. Other exposure guidelines or standards may be applicable depending on national regulations.

Example values of SAR-based Pmax for some cases described by ICNIRP, IEEE Std C95.1-1999 and IEEE Std C95.1-2005

Guideline / Standard	SAR limit, SAR _{max} W/kg	Averaging mass, m g	P _{max} mW	Exposure tier (a)	Region of body (a)
ICNIRP [1]	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999 [2]	1,6	1	1,6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles
IEEE Std C95.1-2005 [3]	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Extremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Extremities and pinnae

(a) Consult the appropriate standard for more information and definitions of terms.

EN62479: 2010 Compliance of the RF Transmitter (1:24 Radio Control Vehicles, Assorted used in General public) bases on test against standard ETSI EN 300 220-2: V3.1.1 (2017-02) (Report No.: SZHH01152706-003S5), and the measured maximum E.I.R.P. = -24.0dBm = 0.004mW for Controller Unit in 27.145MHz, it is less than the RF Exposure limit 20mW.

The Car Unit is a receiver that does not contain radio transmitters and is inherently compliant with the EN62479: 2010 according to route A.

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APPENDIX:

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EUT Photo:

External Photo



External Photo



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TEST REPORT

APPENDIX:

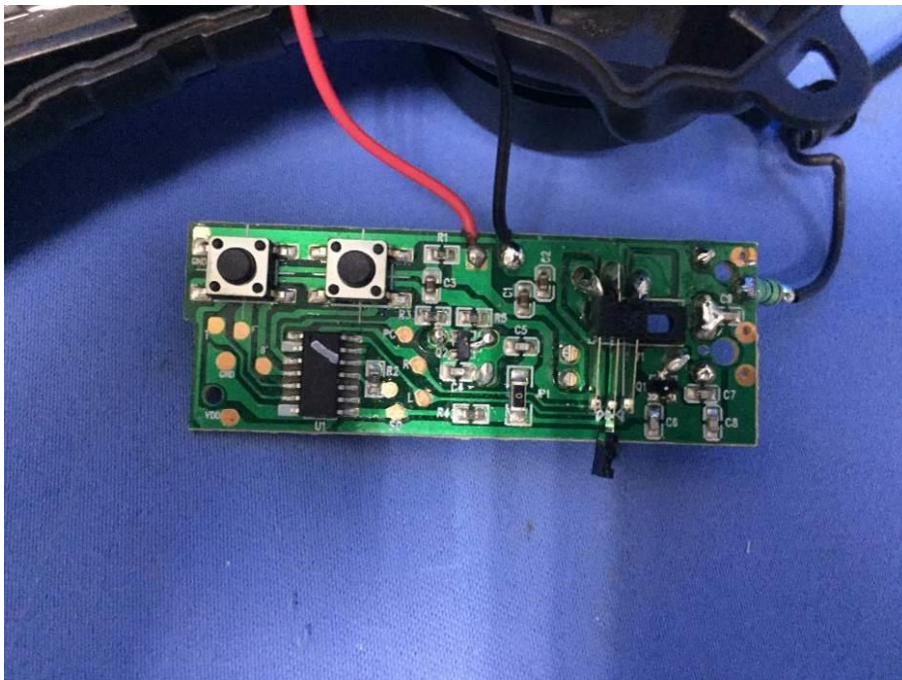
Intertek Report No. : SZHH01152706-002S5

EUT Photo:

Internal Photo



Internal Photo



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APPENDIX:

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EUT Photo:

Internal Photo



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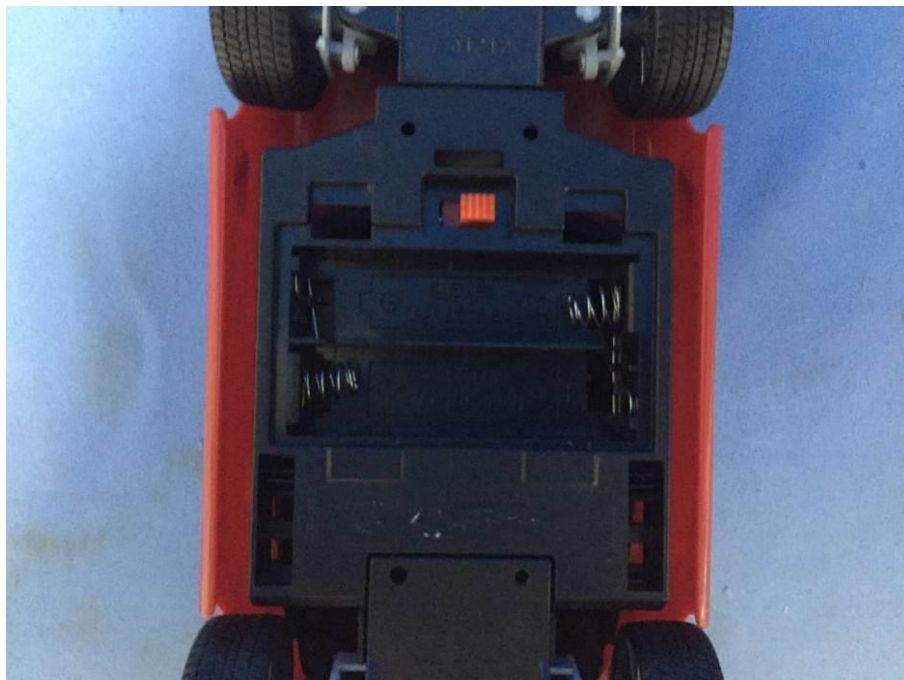
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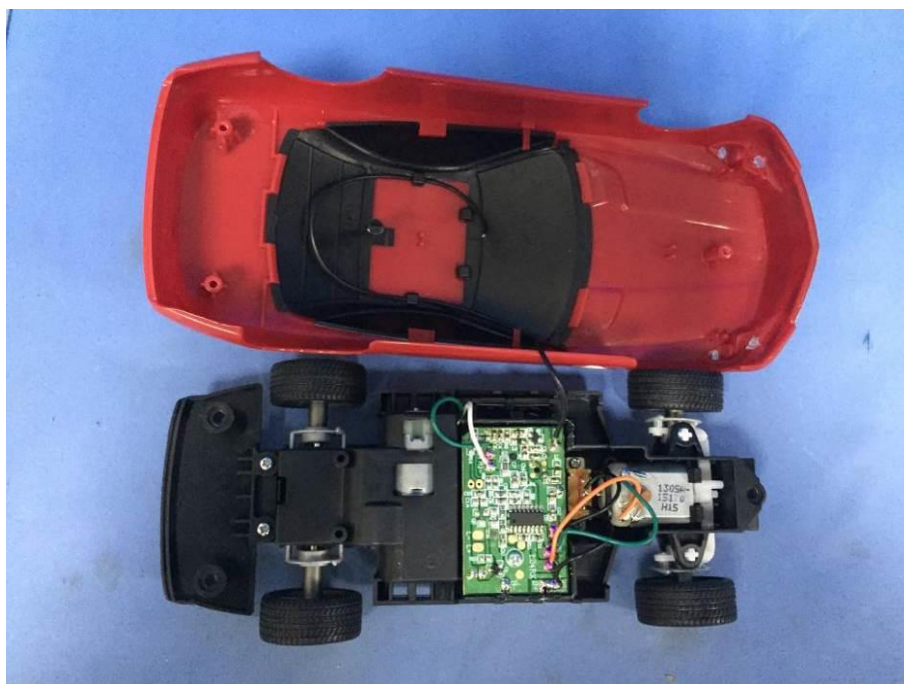
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EUT Photo:

Internal Photo



Internal Photo



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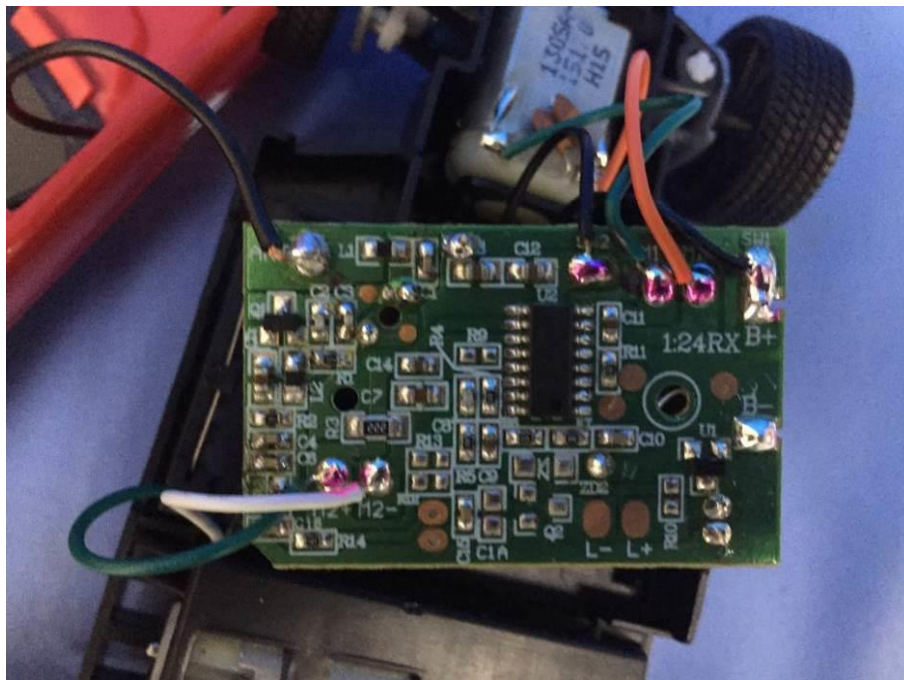
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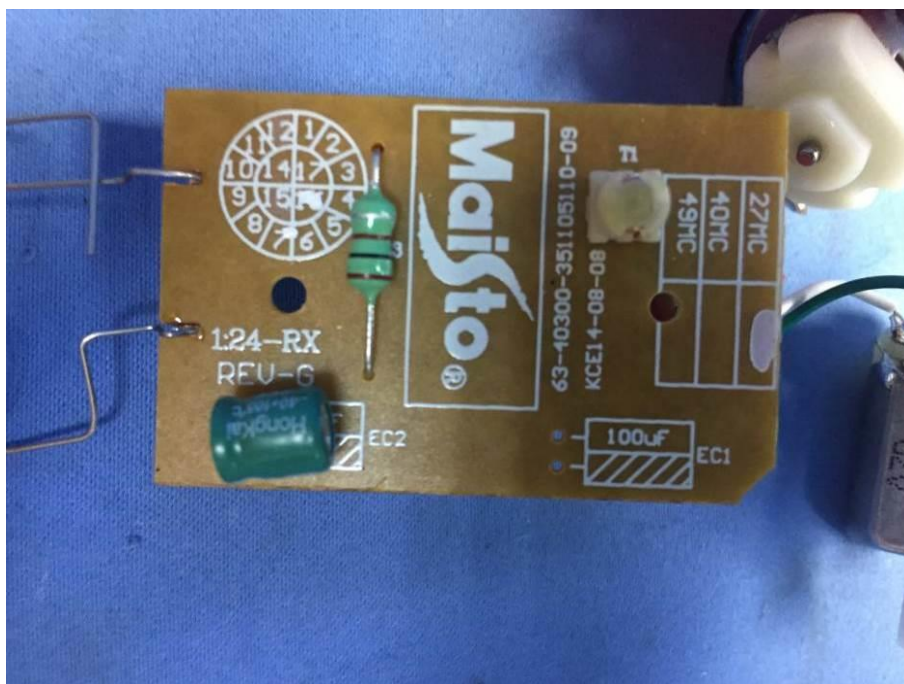
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EUT Photo:

Internal Photo



Internal Photo



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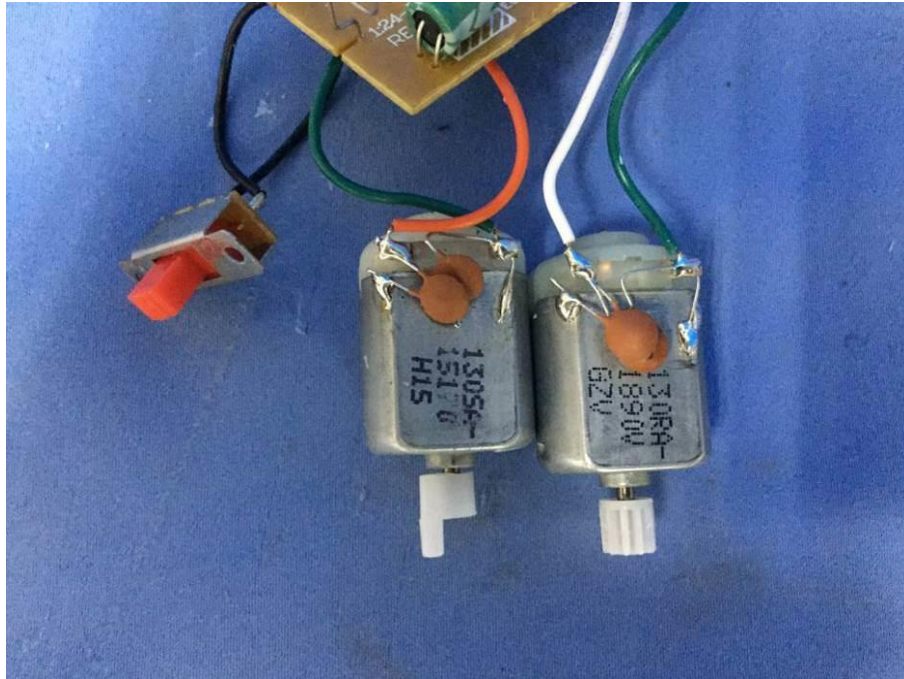
TEST REPORT

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EUT Photo:

Internal Photo



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