



**General Certificate of Conformity (GCC)  
TEST REPORT**

<b>Report Number</b> ..... :	ZHT-221010007R
<b>Date of issue</b> ..... :	Oct. 14, 2022
<b>Total number of pages</b> ..... :	16 pages
<b>Testing Laboratory</b> ..... :	<b>Guangdong Zhonghan Testing Technology Co., Ltd.</b>
<b>Address</b> ..... :	Room 104, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Applicant's name</b> ..... :	<b>Shenzhen Happyrun Intelligent Technology Co., Ltd.</b>
<b>Address</b> ..... :	3F, Building A, Runfa Tech Park, NO.25, Mudun Road, First Industry Park, Lou Cun, Gongming, Guangming, Shenzhen, China
<b>Requested Age Grading</b> ..... :	14 yrs+
<b>Test age</b> ..... :	14 yrs+
<b>Test Method</b> ..... :	Please refer to next page(s).
<b>Test Result</b> ..... :	Please refer to next page(s).
<b>Conclusion</b> ..... :	<p>1.16 CFR PART 1512-2019 REQUIREMENTS FOR BICYCLES</p> <p>2. Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3:2012)</p> <p>Lead in Children's Metal Products (CPSC-CH-E1001-08.3:2012)</p> <p>- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)</p> <p>3. Lead Content for coating—USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)</p> <p>4. Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)</p> <p>5. Determination of Phthalates (CPSC-CH-C1001:09.4)</p> <p>-USA Consumer Product Safety Improvement Act (CPSIA) Sec.108</p> <p>6. As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products</p>

<b>Test item description</b> ..... :	Power assisted electric bicycle
<b>Trademark</b> ..... :	<b>HAPPYRUN</b>
<b>Manufacturer</b> ..... :	Shenzhen Happyrun Intelligent Technology Co., Ltd. 3F, Building A, Runfa Tech Park, NO.25, Mudun Road, First Industry Park, Lou Cun, Gongming, Guangming, Shenzhen, China
<b>Model/Type reference</b> ..... :	HR-G50



Name and address of the testing laboratory:

Guangdong Zhonghan Testing Technology Co., Ltd.

Room 104, Building 1, Yibaolai Industrial Park,  
Qiaotou Community, Fuhai Street, Bao'an District,  
Shenzhen, Guangdong, China

Date of Test..... : Oct. 09, 2022 to Oct. 14, 2022

*Jimmy Chen*

Tested by (name + signature)..... : Jimmy Chen

*Laney Xie*

Reviewed by (name + signature)..... : Laney Xie



Approved by (name + signature)..... : Levi Lee



**Report Record**

<b>Report No.</b>	<b>Issue Date</b>	<b>Description</b>	<b>Approved</b>
ZHT-221010007R	Oct. 14, 2022	Original	valid

**Sample Description**

No.	Name
1	Black coating
2	Metal (steel ring)
3	Metal (spokes)
4	Black plastic (valve core)
5	Black tire
6	Plastic
7	Metal (front baffle U frame)
8	Metal (bracket)
9	Brake pads
10	Metal (braking clip)
11	Metal (brake cable)
12	Black plastic
13	Metal
14	Screw
15	Metal (Lamp enclosure)
16	Silvery metal (screw)
17	Black metal
18	Wire jacket (brake wire)
19	Metal (front fork)
20	Metal (bend handle)
21	Metal (brake rope head)
22	Screws
23	Plastic



24	Handle (knobs)
25	Metal (brake lever)
26	Metal (screw)
27	Metal (nut)
28	Metal (pedals)
29	Coating (Happyrun)
30	Coating (middle fork)
31	Plastic ( handle)
32	Soft plastic (handle)
33	Coating (chain baffle)
34	Plastic (pedal)
35	Coating (chain baffle plate)
36	Plastic (pedal)
37	Metal (crank)
38	Chain (metal)
39	Metal (fixed chain baffle screw)
40	Metal (rear axle)
41	Metal (tighten the whole rod)
42	Metal (disc brake pads)
43	Metal (disc brake pad housing)
44	Plastic (tail light)
45	Label
46	Metal (cushion)
48	Plastic (headlight)



**1.16 CFR PART 1512-2019 REQUIREMENTS FOR BICYCLES**

<b><u>Section</u></b>	<b><u>Observation</u></b>	<b><u>Results</u></b>
		<b><u>No.1</u></b>
1512.3	Requirements in general	PASS
1512.4 Mechanical requirements		---
(a)	Assembly	PASS
(b)	Sharp edges	PASS
(c)	Integrity	PASS
(d)	Attachment hardware	PASS
(g)	Excluded area	PASS
(i)	Control cable ends	PASS
(j)	Control cable abrasion	PASS
1512.5 Requirements for braking system		---
(a)	Braking system	PASS
(b)	Handbrakes	PASS
(1)	Stopping distance	PASS
(2)	Hand lever access	PASS
(3)	Grip dimension	PASS
(4)	Attachment	PASS
(5)	Operating force	PASS
(6)	Pad and pad holders	PASS
(8)	Hand lever location	PASS
(9)	Hand lever extensions	N.A.
(c)	Footbrakes	N.A.
(1)	Stopping distance	N.A.
(2)	Operating force	N.A.
(3)	Crank differential	N.A.
(4)	Independent operation	N.A.
(d)	Footbrakes and handbrakes in combination	N.A.
(e)	Sidewalk bicycles	N.A.





<u>Section</u>	<u>Observation</u>	<u>Results</u>
		<u>No.1</u>
1512.6 Requirements for steering system		---
(a)	Handlebar stem insertion	N.A.
(b)	Handlebar stem strength	PASS
(c)	Handlebar	PASS
(d)	Handlebar ends	PASS
(e)	Handlebar and clamps	PASS
1512.7 Requirements for pedals		---
(a)	Construction	PASS
(b)	Toe clips	N.A.
(c)	Pedal reflectors	PASS
1512.8 Requirements for drive chain		PASS
1512.9 Requirements for protective guards		---
(a)	Chain guard	PASS
(b)	Derailleur guard	N.A.
1512.10 Requirements for tires		PASS
1512.11 Requirements for wheels		---
(a)	Spokes	PASS
(b)	Alignment	PASS
(c)	Rim	PASS
1512.12 Requirements for wheel hubs		---
(a)	Locking devices	PASS
(1)	Rear wheels	PASS
(2)	Front wheels	PASS
(b)	Quick-release device	N.A.
(c)	Front hubs	PASS
1512.13 Requirements for front fork		PASS
1512.14 Requirements for fork and frame assembly		PASS
1512.15 Requirements for seat		---
(a)	Seat limitation	PASS
(b)	Seat post	PASS
(c)	Adjustment clamps	PASS



<u>Section</u>	<u>Observation</u>	<u>Results</u>
		<u>No.1</u>
1512.16 Requirements for reflectors		---
(a)	Front, rear, and pedal reflectors	PASS
(b)	Side reflectors	N.A.
(c)	Front reflector	N.A.
(d)	Rear reflector	PASS
(e)	Pedal reflectors	PASS
(f)	Side reflectors	N.A.
(g)	Reflector tests	N.A.
(h)	Retroreflective tire sidewalls	N.A.
(i)	Retroreflective rims	N.A.
1512.17 Other requirements		---
(a)	Road test	PASS
(b)	Sidewalk bicycle proof test	N.A.
(c)	Ground clearance	PASS
(d)	Toe clearance	PASS
1512.18 Other requirements		PASS
(a)	Sharp edge test	PASS
(c)	Protective cap and end-mounted devices test	PASS
(d)	Handbrake loading and performance test	PASS
(e)	Footbrake force and performance test	N.A.
(f)	Sidewalk bicycle footbrake force test	N.A.
(g)	Handlebar stem test	PASS
(h)	Handlebar test	PASS
(i)	Pedal slip test	PASS
(j)	Rim test	PASS
(k)	Fork and frame test	PASS
(l)	Seat adjustment clamps and load test	PASS
(m)	Reflector mount and alignment test	PASS
(n)	Reflector test	PASS
(o)	Reflective tire and rim test	N.A.
(p)	Road test	PASS
(q)	Sidewalk bicycle proof test	N.A.
(r)	Abrasion test for retroreflective rims	N.A.
1512.19 Instructions and labeling		PASS





1512.20 Separability	PASS
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Note: N.A.= Not applicable N.T.=Not tested (as per client's request)

**2. Lead in Non-Metal Children's Products (CPSC-CH-E1002-08.3:2012)**

**- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)**

Test Method: With reference to CPSC-CH-E1002-08.3:2012, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result		MDL	Limit
		No.4+No.5+No.6	No.12+No.23+No.24		
Lead (Pb)	mg/kg	10	24	10	100

Test Item	Unit	Result		MDL	Limit
		No.18+No.31+No.3	No.13+No.36+No.4		
Lead (Pb)	mg/kg	2 N.D.	5 N.D.	10	100

Test Item	Unit	Result	MDL	Limit
		No.34+No.4 4		
Lead (Pb)	mg/kg	N.D.	10	100

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**Lead in Children's Metal Products (CPSC-CH-E1001-08.3:2012)****- USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(a)**

Test Method: With reference to CPSC-CH-E1001-08.3:2012, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item	Unit	Result		MDL	Limit
		No.2+No.3+No.6	No.7+No.8+No.10		
Lead (Pb)	mg/kg	N.D.	N.D.	10	100

Test Item	Unit	Result		MDL	Limit
		No.11+No.14	No.15+No.16+No.1 7		
Lead (Pb)	mg/kg	N.D.	N.D.	10	100

Test Item	Unit	Result		MDL	Limit
		No.19+No.20+No.2 1	No.22+No.25+No.2 6		
Lead (Pb)	mg/kg	N.D.	N.D.	10	100

Test Item	Unit	Result		MDL	Limit
		No.27+No.28+No.3 7	No.38+No.39+No.4 0		
Lead (Pb)	mg/kg	N.D.	N.D.	10	100

Test Item	Unit	Result		MDL	Limit
		No.41+No.42	No.43+No.46		
Lead (Pb)	mg/kg	N.D.	N.D.	10	100

## Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**3. Lead Content for coating—USA Consumer Product Safety Improvement Act (CPSIA) Sec.101.(f)**

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result				MDL	Limit
		No.29	No.30	No.33	No.35		
Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	90

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**4. Lead Paint Regulation - 16 CFR Part 1303 (CPSC-CH-E1003-09.1)**

Test Method: With reference to CPSC-CH-E1003-09.1:2011, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item	Unit	Result				MDL	Limit
		No.29	No.30	No.33	No.35		
Lead (Pb)	mg/kg	N.D.	N.D.	N.D.	N.D.	10	90

Note:

1. mg/kg = milligram per kilogram= ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit

**5. Determination of Phthalates (CPSC-CH-C1001:09.4)****-USA Consumer Product Safety Improvement Act (CPSIA) Sec.108**

Test Method: With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatograph-Mass

Spectrometer (GC-MS).			Result		
Test Item	CAS No.	Unit	No.4+No.5+No.6	MDL	Limit
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	0.028	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	0.005	0.1

Test Item	CAS No.	Unit	Result	MDL	Limit
			No.34+No.4 4		
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%(w/w)	N.D.	0.005	0.1
Di-butyl phthalate (DBP)	84-74-2	%(w/w)	N.D.	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	%(w/w)	N.D.	0.005	0.1
Di-isononyl phthalate (DINP)	28553-12-0 68515-48-0	%(w/w)	N.D.	0.010	0.1
Di-n-pentyl phthalate(DPENP)	131-18-0	%(w/w)	N.D.	0.010	0.1
Di-n-hexyl phthalate(DHEXP)	84-75-3	%(w/w)	N.D.	0.005	0.1
Di-isobutyl phthalate(DIBP)	84-69-5	%(w/w)	N.D.	0.005	0.1
Dicyclohexyl phthalate(DCHP)	84-61-7	%(w/w)	N.D.	0.005	0.1

Note: 1. % = percentage by weight.

2. 0.0001% = 1 mg/kg.

3. MDL = Method Detection Limit.

4. N.D. = Not Detected (&lt; MDL).

5. Children's toys and child care articles that contains concentrations of not more than 0.1% of





Di-(2-ethylhexyl) phthalate (DEHP), Di-butyl phthalate (DBP), or Butyl benzyl phthalate (BBP), Di-isononyl phthalate (DINP), Di-n-pentyl phthalate(DPENP), Di-n-hexyl phthalate(DHEXP), Di-isobutyl phthalate(DIBP), Dicyclohexyl phthalate(DCHP).

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.

**6. As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products**

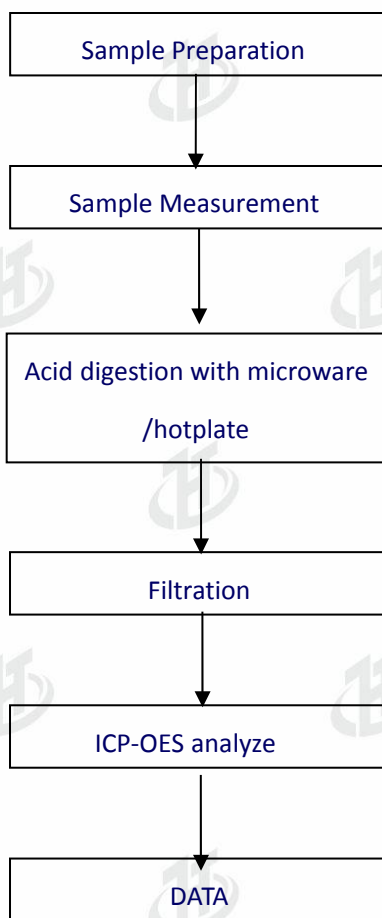
CPSIA Section 103	Tracking label found on the packaging:	Note
	1. Name	Present
	2.Location	Present
	3.Date	Present
	4.Cohort information:	Present
	Tracking label found on the product:	Note
	1. Name	Present
	2.Location	Present
	3.Date	Present
	4.Cohort information:	Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.



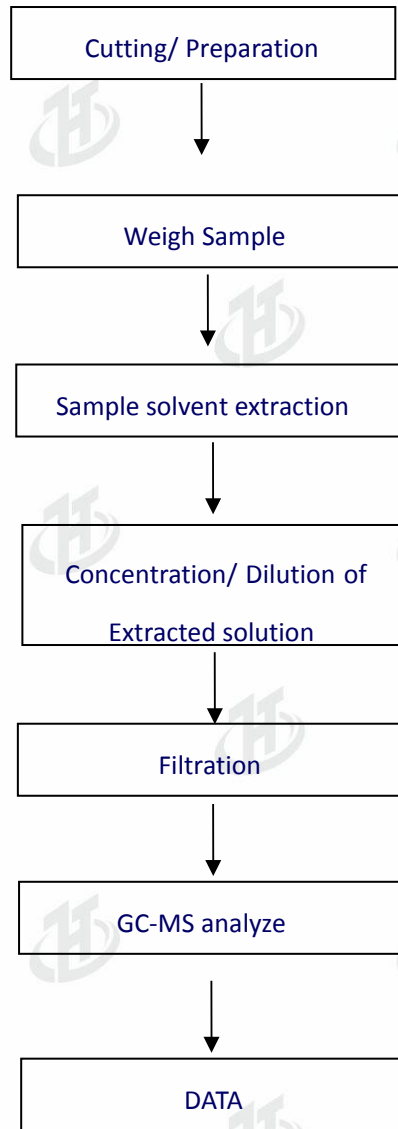
### Lead Testing Flow Chart







### Phthalates Testing Flow Chart





Attachment : Photo document.



Photo 1 (Overall view)

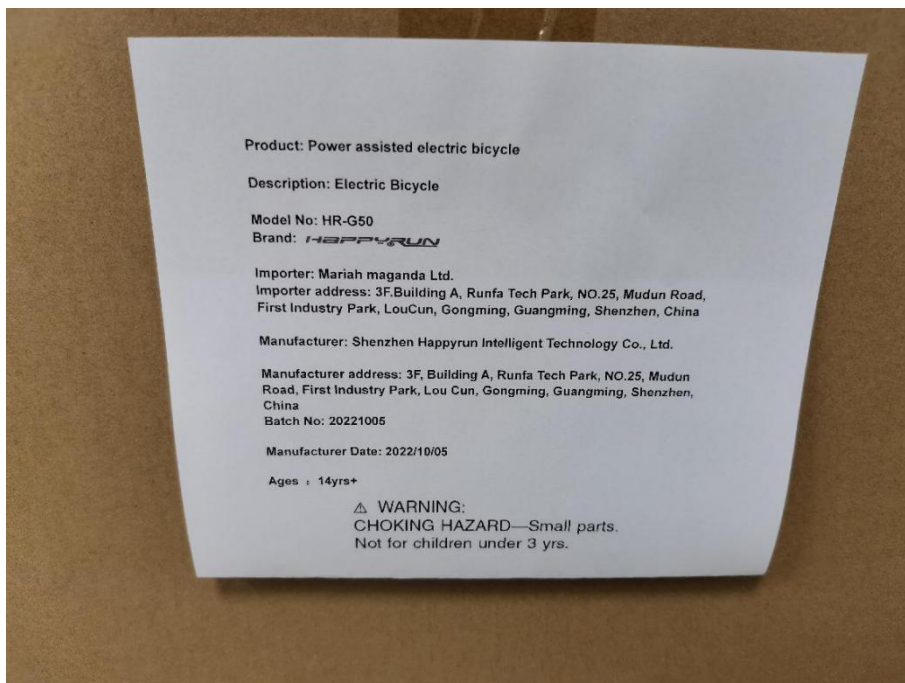


Photo 2 (Label tracking)

\*\*\*End of report\*\*\*