

SHENZHEN JINXUN E-COMMERCE CO., LTD.  
612,518172.ROOM 612, TIANHUI BUILDING, NO.26 HUAXING ROAD, HUANGGEKENG COMMUNITY,  
LONGGANG DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA, 518172.

Sample Description : E-BIKE HELMET

Item No. : EW-618

Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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Size : 51cm-54cm, 55cm-58cm

HPI (from basic plane) : 51cm-54cm: 40mm FOR EN960 535  
55cm-58cm: 42mm FOR EN960 575

Sample Receiving Date : Sep 26, 2022

Test Performing Date : Sep 26, 2022 to Sep 29, 2022

Test Performed : NTA 8776:2016-12,  
Analysis of Azo Dye,  
To Determine the pH Value,  
Color Fastness to Perspiration

Test Result(s) : For further details, please refer to the following page(s)

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Arthur Mak  
Authorized Signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

I. Test Conducted: Based on NTA 8776:2016-12 Helmets for S-EPAC riders

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
4	<b>Requirements</b>	---
4.1	<p><b>Materials</b> For those parts of the helmet coming into contact with the skin, the material used should be known not to undergo appreciable alteration from contact with sweat or with substances likely to be found in toiletries. Materials shall not be used which are known to cause skin disorders.</p>	Pass
4.2	<p><b>Construction</b> The helmet normally consists of a means of absorbing impact energy and means of retaining the helmet on the head in an accident. The helmet should be durable and withstand handling. The helmet shall be so designed and shaped that parts of it (visor, rivets, ventilators, edges, fastening device and the like) are not likely to injure the user in normal use.</p> <p><b>NOTE</b> Helmets should: — have low weight; — be ventilating; — be easy to put on and take off; — be usable with spectacles; — not significantly interfere with the ability of the user to hear traffic noise.</p>	Pass See annex 1
4.3	<p><b>Field of vision</b> When tested in accordance with 5.7 there shall be no occultation in the field of vision bounded by angles as follows (see Figure 1): — horizontally: min. 105° from the longitudinal vertical median plane to the left and right hand sides; — upwards: min. 25° from the reference plane; — downwards: min. 45° from the basic plane.</p>	Pass See annex 4
4.4	<p><b>Shock absorbing capacity</b> The helmet shall give protection to the forehead, rear, sides, temples and crown of the head. When tested in accordance with 5.3 and 5.4, the peak acceleration shall not, for each impact, exceed 250 g for the velocity of 6,5+0.1,-0 m/s on the flat anvil, and 5,42+0.1,-0 m/s on the kerbstone anvil.</p> <p><b>NOTE</b> These are theoretically equivalent to 2 154 mm and 1 497 mm drop heights respectively.</p>	Pass See annex 2
4.5	<p><b>Durability</b> After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).</p>	Pass
4.6	<b>Retention system</b>	
4.6.1	<p><b>General</b> Means shall be provided for retaining the helmet on the wearer's head. All parts of the retention system shall be securely attached to the helmet.</p>	Pass



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 t (86-20) 82155555 www.sgsgroup.com.cn  
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4.6.2	<p><b>Chin strap</b> The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide. Chin straps may be fitted with means of enhancing comfort for the wearer.</p>	Pass
4.6.3	<p><b>Fastening device</b> Any retention system shall be fitted with a device to adjust and maintain tension in the system. The device shall be capable of adjustment so that the buckle does not sit on the jaw bone.</p>	Pass
4.6.4	<p><b>Color</b> No part of the retention system shall be colored green.  <i>NOTE: It is recommended that the opening mechanism be marked with red or orange color.</i></p>	Pass
4.6.5	<p><b>Strength</b> When tested in accordance with 5.5, the dynamic extension of the retention system shall not exceed 35 mm and the residual extension shall not exceed 25 mm. For this purpose, extension includes slippage of the fastening device. Damage to the retention system shall be accepted provided that the above requirements are met.  <i>NOTE</i> In this test, slippage of the fastening device can be measured and recorded separately from other contributions to the extension but this is for information only and is not subject to a separate requirement.</p>	Pass See annex 3
4.6.6	<p><b>Effectiveness</b> When tested in accordance with 5.6 the helmet shall not come off the headform.</p>	Pass
4.6.7	<p><b>Ease of release</b> Following the strength test in accordance with 5.5 and with the load still applied, it shall be possible to open the release system with one hand.</p>	Pass
5.2	<p><b>Inspection and determination of mass</b> Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2. Determine the mass of the helmets of the same size submitted for testing. Calculate and record the mean value in g rounded off to the nearest 10 g, stating the size of the helmet.</p>	Pass See annex 1
6	<p><b>Marking</b> Each helmet shall be marked in such a way that the following information is easily legible by the user and is likely to remain legible throughout the life of the helmet:</p>	NT
	a. number of this standard (NTA 8776);	NT
	b. name or trademark of the manufacturer;	NT
	c. designation of the model;	NT
	d. designation: Helmet for S-EPAC cyclists size or size range of the helmet, quoted as the circumference (in centimetres) of the head which the helmet is intended to fit;	NT
	e. weight of the helmet (the average mass in grams determined according to 5.2);	NT
	f. year and quarter of manufacture;	NT
	g. following text: "Warning! This helmet should not be used by children while climbing or doing other	NT



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Guangzhou Branch Testing & Inspection Services

No.198, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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	activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet."	
	In addition, if the helmet has components made of material which are known to be adversely affected by contact with hydrocarbons, cleaning fluids, paints, transfers or other extraneous additions, the helmet shall carry an appropriate warning.	NT
	If there is a consumer sales packaging, the information specified in a), b), d) and h) shall also be given on that package. The text shall be of minimum font size 12.	NT
7	<b>Information supplied by the manufacture</b>	
	With every helmet, clear information in the language of the country of sale shall be given as follows:	NT
	a. that the helmet can only protect if it fits well and that the buyer should try different sizes and choose the size which feels secure and comfortable on the head;	NT
	b. that the helmet should be adjusted to fit the user, e.g. the straps positioned so that they do not cover the ears, the buckle positioned away from the jawbone and the straps and buckle adjusted to be both comfortable and firm;	NT
	c. how the helmet should be positioned on the head to ensure the intended protection is provided (e.g. that it should be placed so as to protect the forehead and not be pushed too far over the back of the head);	NT
	d. that a helmet cannot always protect against injury;	NT
	e. that a helmet subjected to a severe impact should be discarded and destroyed;	NT
f. a statement of the danger of modifying or removing any of the original component parts of the helmet other than as recommended by the manufacturer, and that helmets should not be adapted for the purpose of fitting accessories in a way not recommended by the manufacturer.	NT	



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Model: EW-618

Size: 51-54 cm

Test headform: 535 (EN 960:2006)

**Annex-1: Mass**

Mass of the samples:

Sample No.	Mass (g)
1	358
2	332
3	334
4	357
Average	345.2

**Annex-2: Impact energy attenuation test**

Test Specification: NTA 8776:2016-12-5.3/5.4

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	5.51	122.4	Pass
		Flat	Left	6.55	202.2	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	6.56	229.9	Pass
		Kerbstone	Left rear	5.51	133.4	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left front	5.51	127.4	Pass
		Flat	Rear	6.56	201.0	Pass

**Annex-3: Retention system strength**

Test Specification: NTA 8776:2016-12-5.5

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	25.4	17.6	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	26.0	17.2	Pass

**Annex-4: Field of vision**

Test Specification: NTA 8776:2016-12-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**Model:** EW-618

**Size:** 55-58 cm

**Test headform:** 575 (EN 960:2006)

**Annex-1: Mass**

Mass of the samples:

Sample No.	Mass (g)
1	327
2	346
3	326
4	358
Average	339.2

**Annex-2: Impact energy attenuation test**

Test Specification: NTA 8776:2016-12-5.3/5.4

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Test Anvil	Test site	Velocity (m/s)	Peak'G	Result
1	High temperature No recondition (Clause 5.4.2.1)	Kerbstone	Front	5.50	132.4	Pass
		Flat	Left	6.56	201.1	Pass
2	Low temperature No recondition (Clause 5.4.2.2)	Flat	Crown	6.54	235.7	Pass
		Kerbstone	Left rear	5.51	129.8	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	Kerbstone	Left front	5.52	130.2	Pass
		Flat	Rear	6.54	204.3	Pass

**Annex-3: Retention system strength**

Test Specification: NTA 8776:2016-12-5.5

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Dynamic extension (mm)	Residual extension (mm)	Result
2	Low temperature No recondition (Clause 5.4.2.2)	23.9	14.7	Pass
3	Artificial Ageing No recondition (Clause 5.4.2.3)	25.8	15.0	Pass

**Annex-4: Field of vision**

Test Specification: NTA 8776:2016-12-5.7

Horizontal: >105°

Upward: >25°

Downward: >45°



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**II. Analysis of AZO Dye and to Determine the PH Value in the submitted sample.**

SGS Ref No.: CAN22-060557

Test Requested	Result
pH value	See Results
Entry 43 of Commission Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Azodyes	PASS

Test Results :

Test Part Description :

SGS Sample ID	Description
CAN22-060557.001	Black fabric(pad)
CAN22-060557.002	Black fabric strap

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**pH value**

Test Method : With reference to ISO 3071:2020, analysis was performed by pH meter.

<u>Test Item(s)</u>	<u>001</u>	<u>002</u>
pH value	5.1	5.1

Notes :

- (1)Extraction medium: KCl solution
- (2)pH value of extraction medium: 5.0 - 7.5
- (3)Temperature of the extraction solution: 22±2°C



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**Entry 43 of Regulation (EU) 2020/2096 amending Annex XVII of REACH Regulation (EC) No 1907/2006 -Azo Dyes**

Test Method : With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.  
 Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	30	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	30	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	30	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	30	mg/kg	5	ND	ND
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	30	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	30	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>



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Test Item(s)	CAS NO.	Limit	Unit	MDL	002	
					Method A	Method B
4-Aminobiphenyl	92-67-1	30	mg/kg	5	ND	ND
Benzidine	92-87-5	30	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	30	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	30	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	30	mg/kg	5	ND	ND
5-nitro-o-toluidine /	99-55-8	30	mg/kg	5	ND	ND
2-Amino-4-nitrotoluene						
4-chloroaniline	106-47-8	30	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	30	mg/kg	5	ND	ND
/ 2,4-Diaminoanisole						
4,4'-diaminodiphenylmethane,	101-77-9	30	mg/kg	5	ND	ND
MDA						
3,3'-dichlorobenzidine	91-94-1	30	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	30	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	30	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'-	838-88-0	30	mg/kg	5	ND	ND
Dimethyl-4,4'-diaminodiphenylm						
ethane						
p-cresidine	120-71-8	30	mg/kg	5	ND	ND
4,4'-methylene-bis-	101-14-4	30	mg/kg	5	ND	ND
(2-chloroaniline)						
4,4'-oxydianiline	101-80-4	30	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	30	mg/kg	5	ND	ND
o-toluidine	95-53-4	30	mg/kg	5	ND	ND
4-methyl-m-phenylenediamine /	95-80-7	30	mg/kg	5	ND	ND
2,4-Toluyldiamine, TDA						
2,4,5-trimethylaniline	137-17-7	30	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	30	mg/kg	5	ND	ND
O-Anisidine	90-04-0	30	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	30	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	30	mg/kg	5	ND	ND
<b>Comment</b>					<b>PASS</b>	<b>PASS</b>



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Notes :

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

Sample photo:



Product Photo



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Product Photo



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**III. Colour Fastness to Perspiration.**

SGS Ref. No.: SL92209263864201TX

Sample Description : 1#BLACK PADDING  
2#BLACK STRAP

**Test Result**

**Colour Fastness To Perspiration**

(ISO 105-E04:2013;Test specimen in vertical position)

Acid

-	Unit	A	B	Requirement
Change in Shade	Grade	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	Grade	4-5	4-5	-
Cotton	Grade	4-5	4-5	-
Polyamide	Grade	4-5	4-5	-
Polyester	Grade	4-5	4-5	-
Acrylic	Grade	4-5	4-5	-
Wool	Grade	4-5	4-5	-



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Guangzhou Branch

No.138, Kazhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
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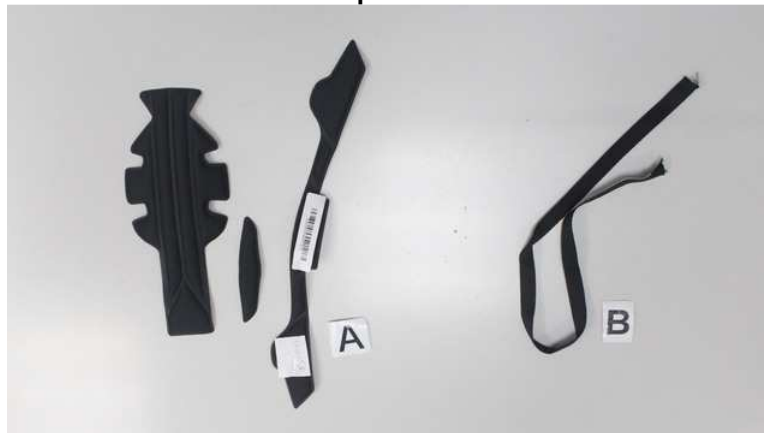
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Alkaline

-	Unit	A	B	Requirement
Change in Shade	Grade	4-5	4-5	-
Staining On Multi-fibre Stripe				-
Acetate	Grade	4-5	4-5	-
Cotton	Grade	4-5	4-5	-
Polyamide	Grade	4-5	4-5	-
Polyester	Grade	4-5	4-5	-
Acrylic	Grade	4-5	4-5	-
Wool	Grade	4-5	4-5	-

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

**Sample Photo**



**Remark:**

1. Pass means the test sample met the requirement of the test item.
2. NA means not applicable.  
NT means not tested as per client's request.
3. A material list for each part of the product and a statement to announce the material complying with requirements of the standard are received from the manufacturer.
4. Only No.1 is tested in this report, other results & photos are extracted from the test report number GZHL2203101057HM.
5. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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Sample photos:

<p>Front view</p>	
<p>Side view</p>	



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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<p>Back view</p>	
<p>Top view</p>	



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t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

<p>Bottom view</p>	
<p>Front view</p>	



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<p>Side view</p>	
<p>Back view</p>	



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form



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中国·广东·广州高新技术产业开发区科学城科珠路138号 邮编: 510663

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Remark: This test report is issued based on the modification of the original No. GZHL2209132490HM test report issued on Oct 08, 2022. And the original report is still valid. According to applicant's requirements, following changes are included:

- a. Change of applicant's name.
- b. Change of applicant's address.

\*\*\*End of Report\*\*\*



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