



Test Report

Number: SZHH01283840S1

Applicant: DONGGUAN HAOSHENG SPORTS EQUIPMENT
CO., LTD.
YANJIANG INDUSTRIAL ZONE, GEKENG VILLAGE
HENGLI TOWN DONGGUAN CITY,
GUANGDONG PROVINCE, CHINA

Date: Sep 10, 2018

Attn: HARRY WU

*This is to supersede Report No.
SZHH01283840 dated Sep 03,
2018*

Sample Description:

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

Item Name : **Helmet.**
Item/Model No. : **HS-108.**
Size : L:58-61cm M:55-58cm S:48-54cm.
Material for Helmet : Shell ABS Shell
Liner EPS.
Country of Origin : China.
Date Sample Received : Aug 13, 2018.



To be continued

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

Michael, Zhang Jian
Title: Manager
CNAS Approved Signatory



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Tests conducted:

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

Conclusion:

Tested samples
Submitted helmets

Standard
EN 1078:2012+A1:2012 Standard Specification for
Helmets Worn by Users of Pedal Cycles, Skateboards and
Roller Skates

Result
Pass

Tested components of
submitted samples

Azocolourants Content Requirement In Annex XVII Item 43
Of The REACH Regulation (EC) NO. 1907/2006 &
Amendment No. 552/2009 and 126/2013 (Formerly Known
As Directive 2002/61/EC)

Pass

European Standard EN420: 2003+A1: 2009, Clause 4.3.2
for pH value

See test
conducted

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Tests Conducted

1 Standard Specification for Helmets Worn by Users of Pedal Cycles, Skateboards and Roller Skates

As per EN 1078:2012+A1:2012: standard specification for helmets worn by uses of pedal cycles, skateboards and roller skates.

Number of samples tested: Eight (8) sets for size 48-54cm; Four (4) sets for size 55-58cm
Four (4) sets for size 58-61cm

Helmets size: 48-54cm, 55-58cm, 58-61cm

Test headform: A/E/J/M

Clause	Test Items	Result
4.1	Materials 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.	
4.2	Construction 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. NOTE 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
4.3	Field of vision 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 in EN 1078:2012+A1:2012): -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 (Horizontally: >105° Upwards: >25° Downwards >45°)



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Clause	Test Items	Result
4.4	<p>S hock absorbing capacity 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 5,42 (+0.1, 0), m/s on the flat anvil, and 4,57 (+0.1, 0)m/s on the kerbstone anvil.</p> <p>NOTE These are theoretically equivalent to 1 497 mm and 1 064 mm drop heights respectively.</p>	P (See appendix)
4.5	<p>Durability After being tested the helmet shall not exhibit damage that could cause significant injury to the wearer (sharp edges, points).</p>	P (No damage & significant injury)
4.6	Retention system	
4.6.1	<p>General 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>	P
4.6.2	<p>Chin strap The chin strap shall not include a chin cup. Any chin strap shall be no less than 15 mm wide (W). Chin straps may be fitted with means of enhancing comfort for the wearer.</p>	P (W: 15.2 mm)
4.6.3	<p>Fastening device 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>	P
4.6.4	<p>Colour No part of the retention system shall be coloured green.</p> <p>NOTE It is recommended that the opening mechanism be marked with red or orange colour.</p>	P (Black)



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Clause	Test Items	Result
4.6.5	<p>Strength</p> <p>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.</p> <p>NOTE 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>	P (See appendix)
4.6.6	<p>Effectiveness</p> <p>When tested in accordance with 5.6 the helmet shall not come off the headform.</p>	P (Did not come off)
4.6.7	<p>Ease of release</p> <p>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>	P
5.2	<p>Inspection and determination of mass</p> <p>Inspect the helmet to ascertain whether it is suitable for its intended purpose and fulfils the general requirements in 4.2.</p> <p>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>	P (See appendix)





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Clause	Test Items	Result
6	<p>Marking</p> <p>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> <p>a) number of this European Standard;</p> <p>b) name or trademark of the manufacturer;</p> <p>c) designation of the model;</p> <p>d) designation, which shall be one or more of the following: Helmet for pedal cyclists, skateboarders or roller skaters;</p> <p>e) size or size range of the helmet, quoted as the circumference (in centimeters) of the head which the helmet is intended to fit;</p> <p>f) weight of the helmet (the average mass in grams determined according to 5.2);</p> <p>g) year and quarter of manufacture;</p> <p>h) following text:</p> <p>"Warning! This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation/hanging if the child gets trapped with the helmet."</p> <p>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.</p>	P
	<p>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.</p>	NA



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Clause	Test Items	Result
7	<p>Information supplied by the manufacturer</p> <p>With every helmet, clear information in the language of the country of sale shall be given as follows:</p> <p>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;</p> <p>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;</p> <p>c) how the helmet should be positioned on the head to ensure the intended protection is provided (e.g. hat it should be placed so as to protect the forehead and not be pushed too far over the back of the head);</p> <p>d) that a helmet cannot always protect against injury;</p> <p>e) that a helmet subjected to a severe impact should be discarded and destroyed;</p> <p>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.</p>	P

Abbreviation : P = Pass; NA = Not Applicable

Appendix:

Section 5.2 – Inspection and determination of mass

Size: 48-54cm

Sample No.	Mass (g)
1	416.4
2	419.0
3	415.9
4	417.7
5	418.7
6	419.9
7	416.1
8	420.0
Average(rounded off to nearest 10g)	417.9(420)



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Tests Conducted

Size: 55-58cm

Sample No.	Mass (g)
1	421.4
2	419.1
3	425.1
4	420.6
Average(rounded off to nearest 10g)	421.5(420)

Size: 58-61cm

Sample No.	Mass (g)
1	411.2
2	416.9
3	413.4
4	414.3
Average(rounded off to nearest 10g)	413.9(410)

Section 4.4—Shock absorbing capacity

Ambient temperature at time of test: 22.3 °C

Size: 48-54cm/Test Headform: A

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
1	High	Kerbstone	Rear	4.66	115.3	Pass
		Flat	Front	5.49	139.5	Pass
2	Low	Flat	Left	5.44	137.6	Pass
		Kerbstone	Rear	4.66	78.4	Pass
3	Artificial ageing	Kerbstone	Left front	4.66	74.4	Pass
		Flat	Rear	5.51	176.6	Pass

Size: 48-54cm/Test Headform: E

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
5	High	Kerbstone	Rear	4.57	174.3	Pass
		Flat	Right	5.43	225.8	Pass
6	Low	Flat	Crown	5.48	211.2	Pass
		Kerbstone	Right rear	4.58	164.4	Pass
7	Artificial ageing	Kerbstone	Left front	4.58	158.0	Pass
		Flat	Front	5.44	183.7	Pass



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Size: 55-58cm/Test Headform: J

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
1	High	Kerbstone	Crown	4.61	126.3	Pass
		Flat	Left	5.43	200.7	Pass
2	Low	Flat	Crown	5.43	208.5	Pass
		Kerbstone	Right	4.64	109.2	Pass
3	Artificial ageing	Kerbstone	Rear	4.59	104.6	Pass
		Flat	Crown	5.44	200.8	Pass

Size: 58-61cm/Test Headform: M

Sample No.	Environment Impact	Test anvil	Location Impact	Velocity (m/s)	Peak (Gn)	Compliant
1	High	Kerbstone	Crown	4.60	106.5	Pass
		Flat	Right	5.44	175.0	Pass
2	Low	Flat	Front	5.44	162.5	Pass
		Kerbstone	Right	4.58	131.8	Pass
3	Artificial ageing	Kerbstone	Rear	4.61	156.6	Pass
		Flat	Left	5.43	174.0	Pass

Section 4.6.5—Retention system strength

Size: 48-54cm/Test Headform: A

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
2	19.3	13.4	Pass
3	8.2	2.8	Pass



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Size: 48-54cm/Test Headform: E

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
6	17.0	14.7	Pass
7	29.5	13.4	Pass

Size: 55-58cm/Test Headform: J

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
2	19.6	17.0	Pass
3	26.9	17.7	Pass

Size: 58-61cm/Test Headform: M

Sample No.	Dynamic extension (mm)	Residual extension (mm)	Compliant
2	19.5	17.0	Pass
3	30.8	17.7	Pass

Photos for reference:



Front view



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Tests Conducted

Side view	
Back view	



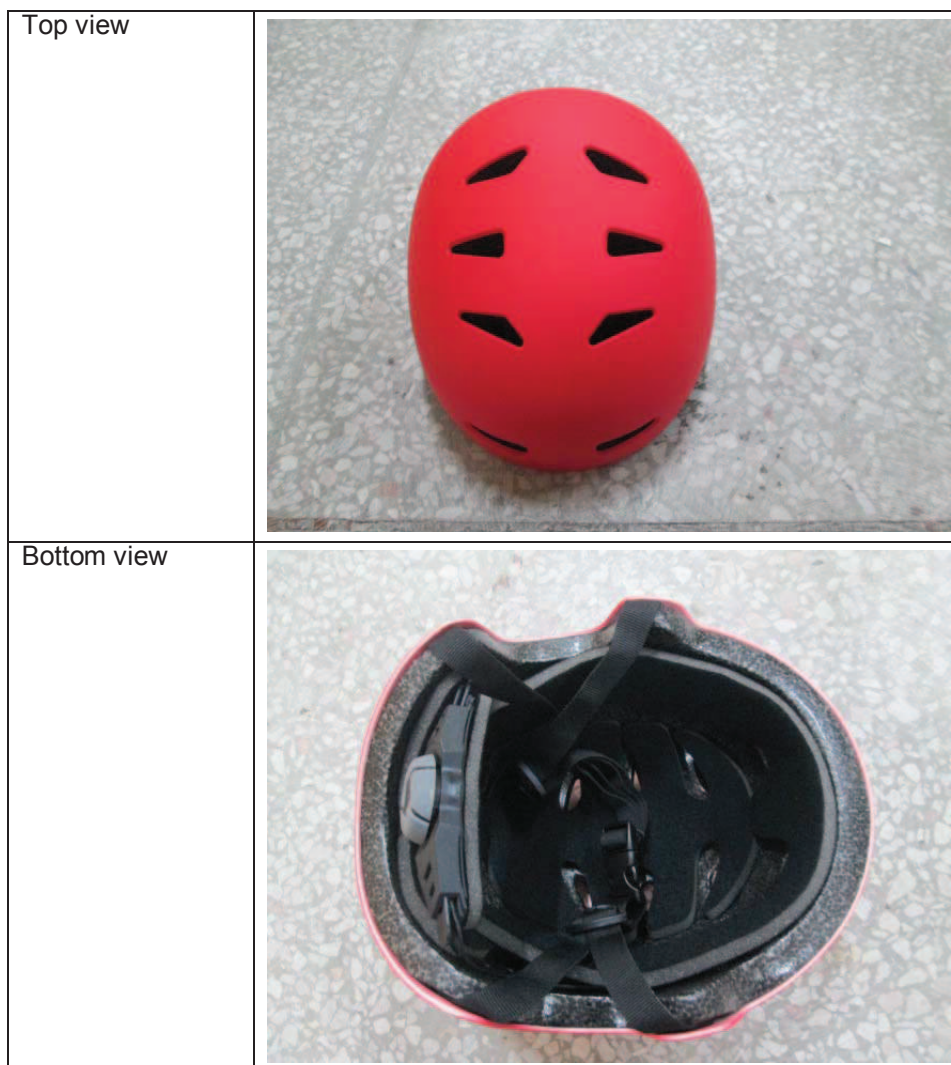
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Tests Conducted

Label	<div> EN 1078: 2012+A1:2012</div> <div>Model:HS-108 Size:L(58-61)cm Weight:410gr Production date:09/2018 Made in China</div> <div>Model:HS-108 Size:M(55-58)cm Weight:420gr Production date:09/2018 Made in China</div>
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	<p>Model:HS-108 Size:S(48-54)cm Weight:420gr Production date:09/2018 Made in China</p> <p>Helmet meets en 1078 standards. Helmet for pedal cyclists, skateboarders or roller skaters. Constructed of expanded polystyrene. Helmets can be seriously damaged by substances such as solvents, paints, adhesives and cleaning solutions. Make no modifications. Helmet is made almost entirely of polystyrene and may be easily penetrated by sharp objects. No protective headgear can protect the wearer against all unforeseeable impacts and this unit will not eliminate all possibility of injury even when worn properly. A helmet subjected to severe impact shall be discarded and destroyed. This helmet must be of good fit and fastened securely under the jaw. Warning: This helmet should not be used by children while climbing or doing other activities when there is a risk of strangulation hanging if the child gets trapped with the helmet. Dongguan Haosheng Sports Equipment CO.,LTD Yanjiang Industrial Zone, Gekeng village, Hengli Town Dongguan City, Guangdong Province, China</p>
Instruction	<p>WARNINGS No helmet can protect against all types of accidents. Helmets reduce or prevent many injuries, but even low speed impact accidents can result in serious or fatal injury. This helmet should not be used with or on any motorized vehicle. This helmet is to be used with skateboards, scooters, rollerskates and bicycles only. Always skate or ride within your ability. Action sports are dangerous and can result in injury or death even when full safety gear is worn. There are loose straps on this helmet that can get caught on objects. Do NOT wear this helmet in areas where the straps could get caught like play areas and any climbing activities. If the helmet is dropped or suffers any impact, it should be replaced immediately. The shock absorption pads in the helmet become less effective after impact and will no longer protect you. Do not make any adjustments or modifications to this helmet. Helmets are worn to protect your head. Full safety gear should also be worn during the participation of any action sports. Full safety gear includes Knee, Elbow and Wrist Guards.</p> <p>FITTING INSTRUCTIONS To ensure maximum protection and comfort, the helmet has to be the right size and must be worn correctly to ensure proper fit. Your helmet should not obstruct your vision. Your helmet is fitted with padding to ensure maximum comfort and protection around the whole of your head. A properly fitting helmet should mean the pads contact every part of your head whilst remaining comfortable. The straps on your helmet should be checked before each use. Check for fraying edges and any rips or tears. The strap should keep the helmet secure during excessive movement whilst remaining comfortable. A properly fitting helmet should NOT be able to be removed from the head with the straps fastened.</p> <p> INCORRECT INCORRECT CORRECT Exposed Forehead Blocked Vision</p> <p>To adjust the position of the straps, hold one end of the chin buckle in one hand and slide the adjuster up or down the strap as necessary, to create a balanced and even "Y" shape underneath the ears. Adjust the tightness of the chinstrap accordingly. It should be tight enough that you can just slip a couple of fingers between the strap and the neck when fastened. Be VERY CAREFUL not to pinch the skin when closing the buckle. The helmet should be secure and not come off when moved back and fourth and side-to-side.</p> <p>CARE AND CLEANING Avoid leaving your helmet in excessive heat for long durations of time. Store in a cool/dry place. Only use a soft towel, soap and warm water to clean your helmet. You can remove and clean the comfort pads by hand and re-insert them after they air dry.</p> <p>Notified Body: ITS Testing Services(UK) Ltd., Centre Court, Meridian Business Park, Leicester LE19 1WD No.0362 Dongguan Haosheng Sports Equipment CO.,LTD Yanjiang Industrial Zone, Gekeng village, Hengli Town Dongguan City, Guangdong Province, China</p>





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Tests Conducted

<p>Test line (Size: 48- 54cm/Test Headform: A)</p>	
<p>Test line (Size: 48- 54cm/Test Headform: E)</p>	





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Tests Conducted

Test line (Size: 55-58cm/Test Headform: J)	
Test line (Size: 58-61cm/Test Headform: M)	





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Tests Conducted

Impact sites #1	
Impact sites #2	



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2 Detection Of Amines Derived From Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method : EN 14362-1 : 2012 for Textile Material
EN ISO 17234-1: 2010 for Leather Material
EN 14362-3 : 2012 & EN ISO 17234-2: 2011 for 4-Aminoazobenzene

	Test item	Cas No.	Result (mg/kg)
			Tested Component
			(1+2+3)
1	4-Aminodiphenyl	92-67-1	ND
2	Benzidine	92-87-5	ND
3	4-Chloro-o-Toluidine	95-69-2	ND
4	2-Naphthylamine	91-59-8	ND
5	o-Aminoazotoluene	97-56-3	ND
6	2-Amino-4-Nitrotoluene	99-55-8	ND
7	p-Chloroaniline	106-47-8	ND
8	2,4-Diaminoanisole	615-05-4	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND
14	p-Cresidine	120-71-8	ND
15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND
16	4,4'-Oxydianiline	101-80-4	ND
17	4,4'-Thiodianiline	139-65-1	ND
18	o-Toluidine	95-53-4	ND
19	2,4-Toluylenediamine	95-80-7	ND
20	2,4,5-Trimethylaniline	137-17-7	ND
21	o-Anisidine	90-04-0	ND
22	4-Aminoazobenzene	60-09-3	ND

ND = Not detected (less than reporting limit)

Reporting limit = 5mg/kg

Requirement = 30mg/kg (Max.)



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According to the official method EN 14362-1:2012 and EN ISO 17234-1:2010, if each amine is found < 30 mg/kg, azo colorants which can release the listed aromatic amines were not detected.

According to the official method EN 14362-3:2012 and EN ISO 17234-2:2011, if 4-aminoazobenzene is found < 30 mg/kg, azo colorants which can release 4-aminoazobenzene was not detected.

Tested components: See component list in the last section of this report

3 pH Value

With reference to EN420: 2003+A1:2009 Clause 4.3.2, and test method per EN ISO 4045 for leather and EN 1413 for other materials.

Test item	Result			Limit #
	Tested component			
	(1)	(2)	(3)	
pH value	6.2	6.7	6.2	3.5-9.5

Remark (#) – The limit for use on protective gloves is quoted as a reference for materials used in the tested helmet.

Tested Components: See component list in the last section of this report

Component list:

- (1) Black Velcro hook (Velcro hook).
- (2) Black fabric (pad).
- (3) Black Webbing (belt).

End of report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.



To: DONGGUAN HAOSHENG SPORTS EQUIPMENT
CO., LTD.

Attention: HARRY WU

Date: Sep 10, 2018

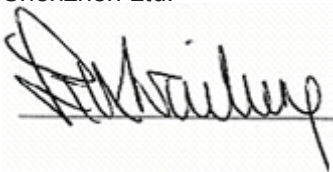
Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01283840 Dated Sep 03, 2018

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report, SZHH01283840S1.

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Ben N.L. Lin
General Manager

