



**Test Result(s):**

Test Part Description

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0287694-0001.C001	Silvery metal
SN2	A2	SHA24-0287694-0001.C002	Gray solid
SN3	A4	SHA24-0287694-0001.C004	Gray/black solid sheet
SN4	A5	SHA24-0287694-0001.C005	Colorful solid sheet
SN5	A6	SHA24-0287694-0001.C006	Silvery liquid
SN6	A8	SHA24-0287694-0001.C008	Gray solid
SN7	A10	SHA24-0287694-0001.C010	Copper metal
SN8	A12	SHA24-0287694-0001.C012	Black liquid
SN9	A13	SHA24-0287694-0001.C013	Yellow liquid
SN10	A15	SHA24-0287694-0001.C015	Gray solid
SN11	A17	SHA24-0287694-0001.C017	Silvery/white/copper solid sheet
SN12	A18	SHA24-0287694-0001.C018	White/silvery solid sheet
SN13	A19	SHA24-0287694-0001.C019	Silvery metal
SN14	A20	SHA24-0287694-0001.C020	Copper metal
SN15	A21	SHA24-0287694-0001.C021	Silvery metal
SN16	A22	SHA24-0287694-0001.C022	Silvery metal
SN17	A23	SHA24-0287694-0001.C023	Black solid
SN18	A24	SHA24-0287694-0001.C024	Black solid
SN19	A25	SHA24-0287694-0001.C025	Copper metal
SN20	A26	SHA24-0287694-0001.C026	Silvery metal wire
SN21	A35	SHA24-0287694-0001.C035	Copper metal
SN22	A38	SHA24-0287694-0001.C038	Gray solid
SN23	A47	SHA24-0287694-0001.C047	Silvery metal
SN24	A50	SHA24-0287694-0001.C050	Black solid
SN25	A51	SHA24-0287694-0001.C051	Silvery metal

Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit
--------------	-------



## Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 3 of 31

Test Item(s)

## Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 4 of 31

Test Item(s)	Limit	Unit(s)
--------------	-------	---------



**Test Report**

**No.:** SHAEC24028769415

**Date:** Dec 30, 2024

Page 5 of 31

Test Item(s)	Limit
--------------	-------



# Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 6 of 31

Test Item(s)	Limit	Unit(s)	MDL	A13	A15	A17
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A18	A23	A24
Lead (Pb)	1000	mg/kg	2	ND	ND	6
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	4	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND

## Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 7 of 31

Test Item(s)	Limit	Unit(s)	MDL	A18	A23	A24
--------------	-------	---------	-----	-----	-----	-----





# Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 9 of 31

Test Item(s)	Limit	Unit(s)	MDL	A1	A10	A19
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND



**Test Report**

**No.:** SHAEC24028769415

**Date:** Dec 30, 2024

Page 11 of 31

Test Item(s)	Limit	Unit(s)	MDL	A25	A35	A47
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND







## Test Report

No.: SHAEC24028769415

Date: Dec 30, 2024

Page 14 of 31

- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than  $0.10 \mu\text{g}/\text{cm}^2$ ). The coating is considered a non-Cr(VI) based coating.
- c. The result between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  is considered to be inconclusive-unavoidable coating variations may influence the determination.

According to the declaration from the client, Lead (Pb) in No.A4 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-I]: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

More information about exemption can be found via the following link:

<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

According to the declaration from the client, Lead (Pb) in No.A26 is exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(a)]: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

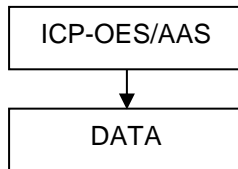
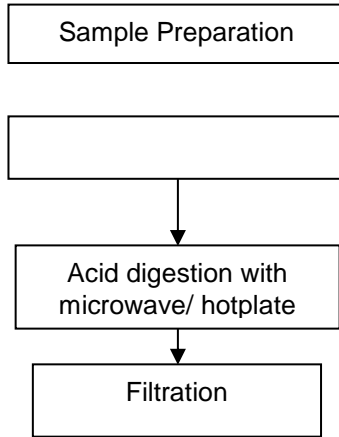
<https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf>

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.

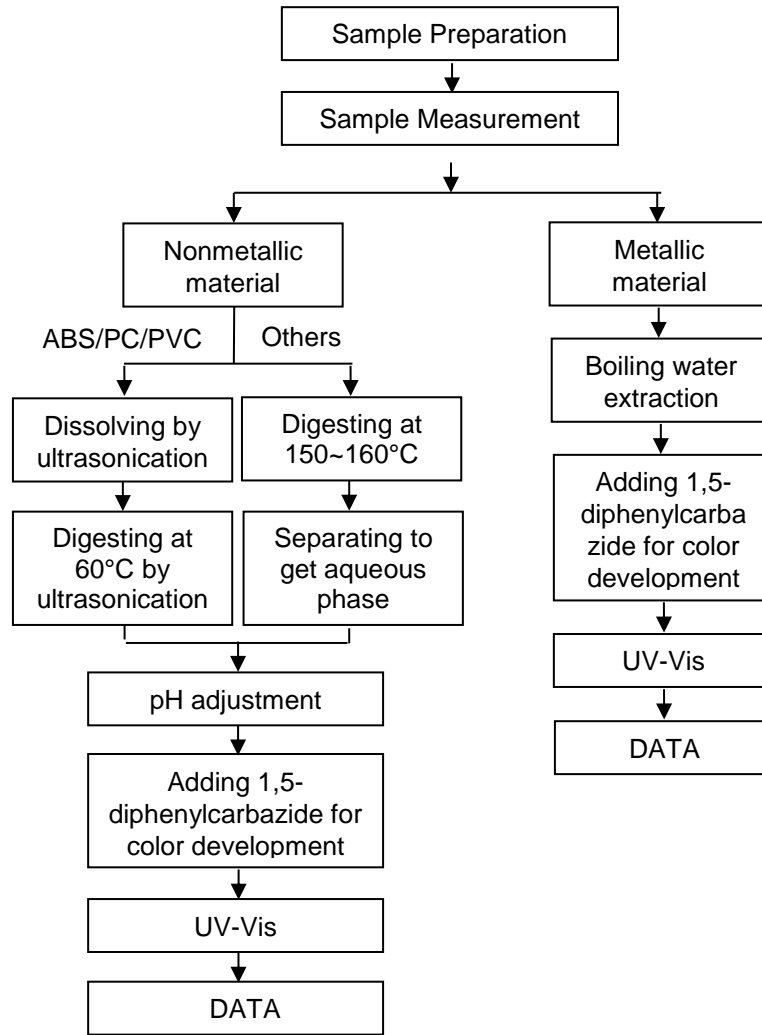


**Elements Testing Flow Chart**

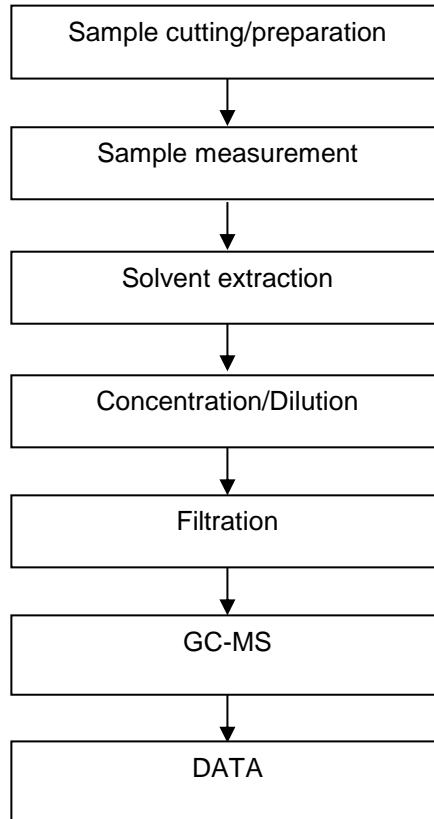
These samples were dissolved totally by pre-conditioning method according to below flow chart.



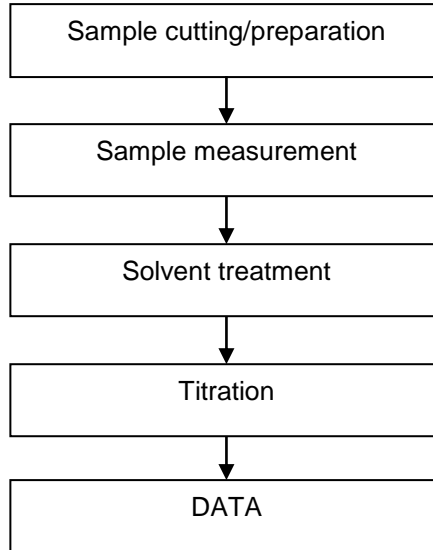
**Hexavalent Chromium (Cr(VI)) Testing Flow Chart**



### PBB/PBDE/Phthalates Testing Flow Chart



**Titration Testing Flow Chart**



# Test Report

No.: SHAEC24028769415

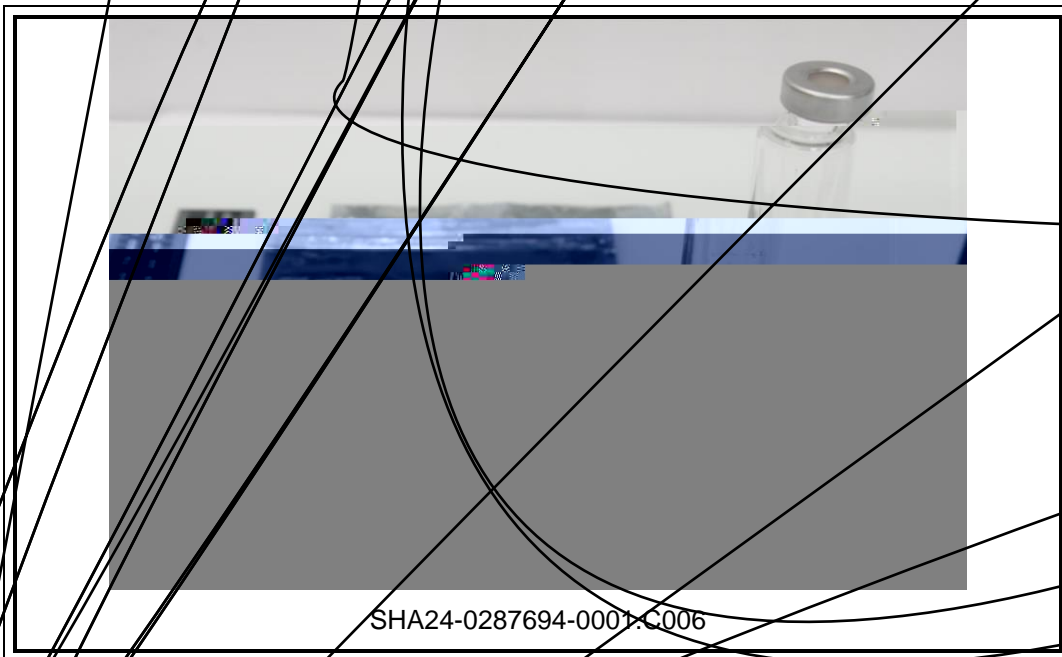
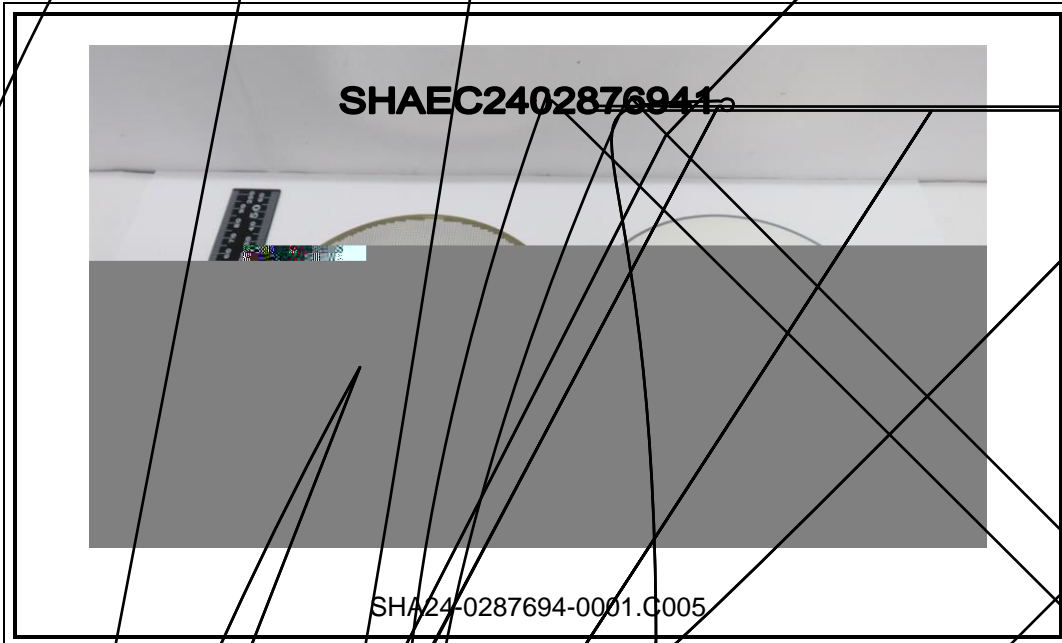
Date: Dec 30, 2024

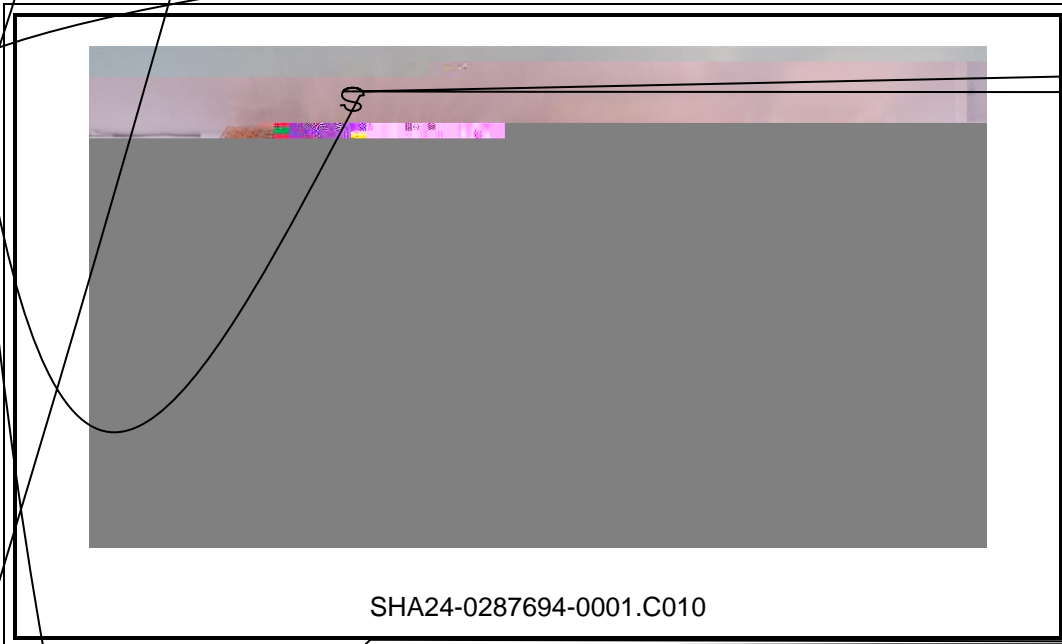
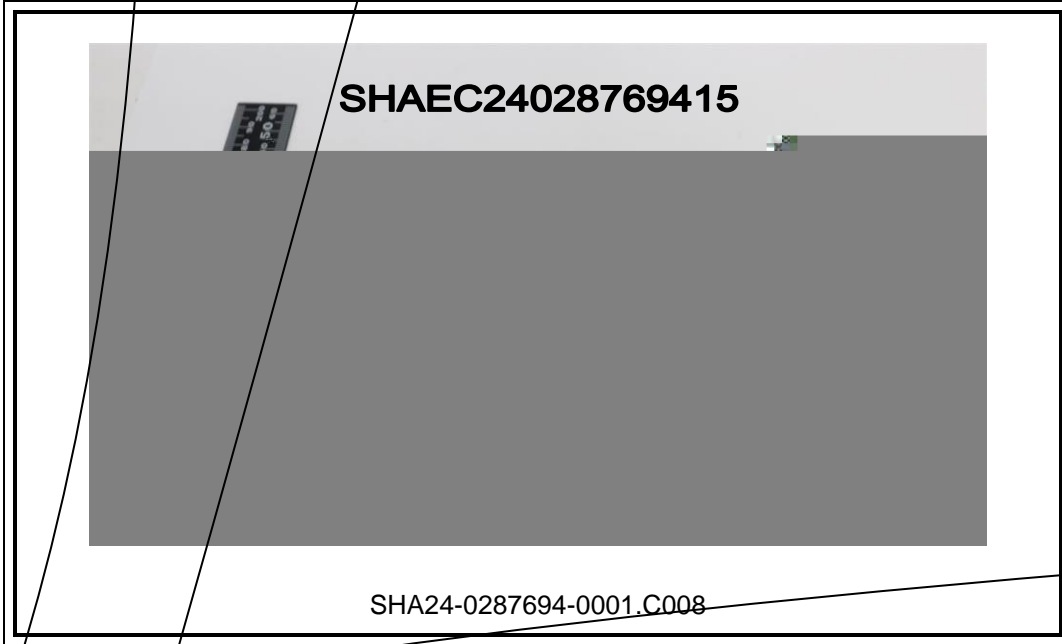
S

Test Re

S







Test

FAEC 24025

A24-0017-001.C012

S 4-0001.C013

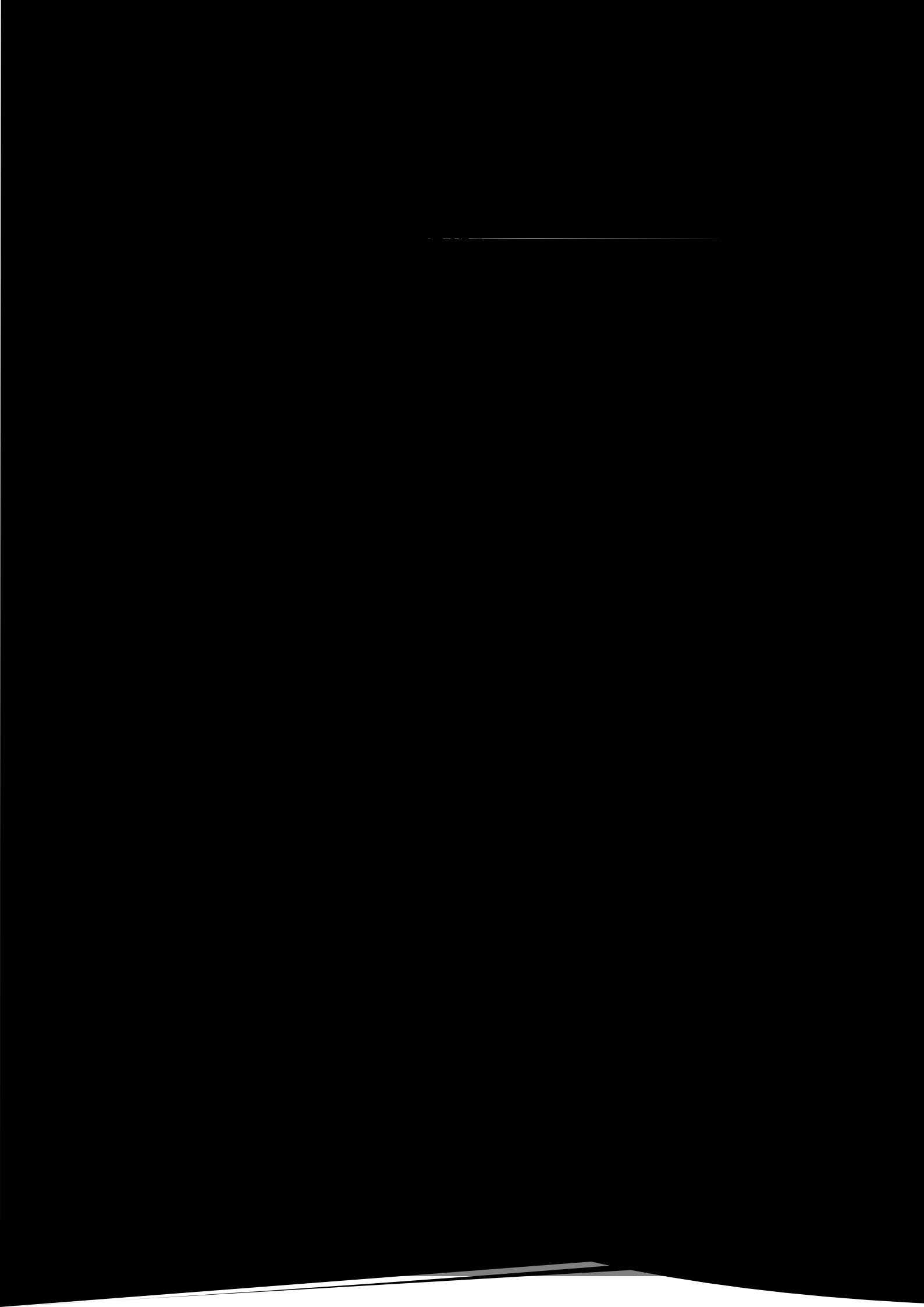
In printed form, this document is issued by the Company subject to its General Conditions of Service, printed on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions>; in electronic format documents, this document is issued by the Company subject to its Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Any claim shall be drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any



**Test Report**

**No.:** SHAEC24028769415

**Date:**

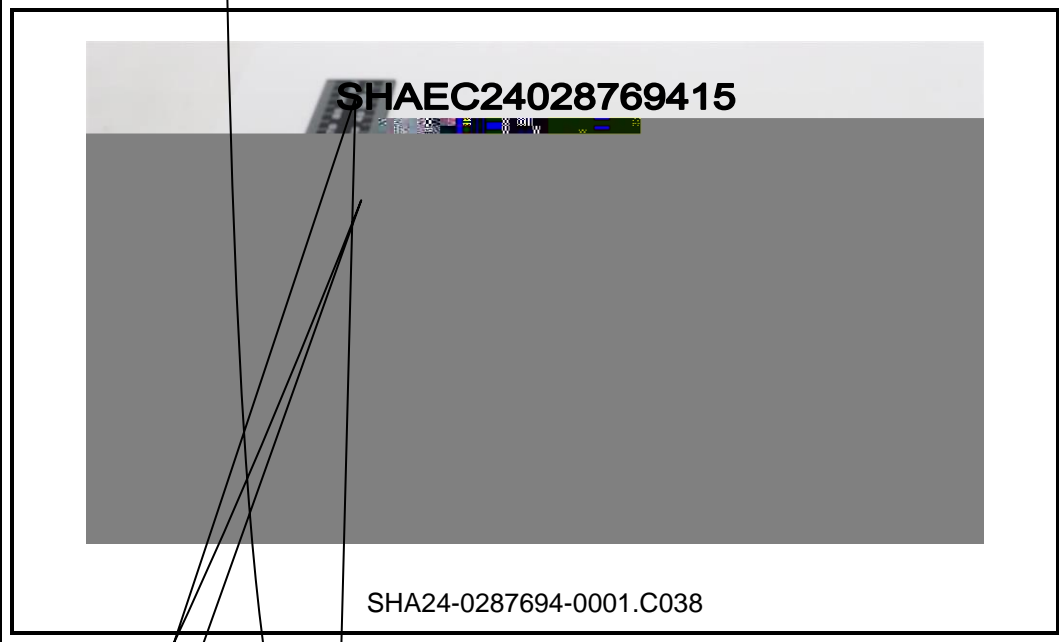


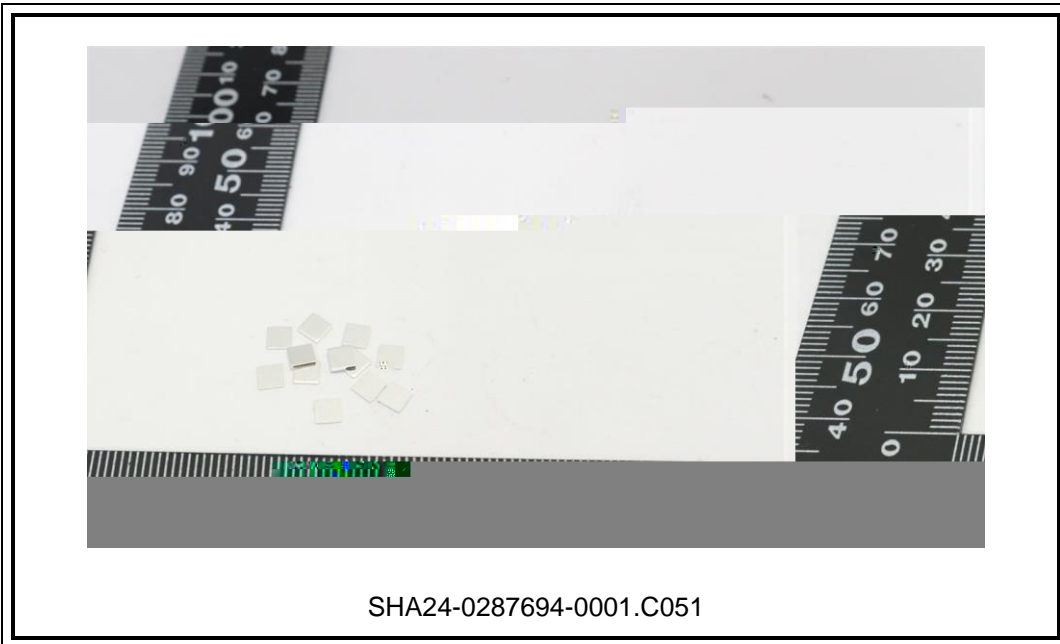
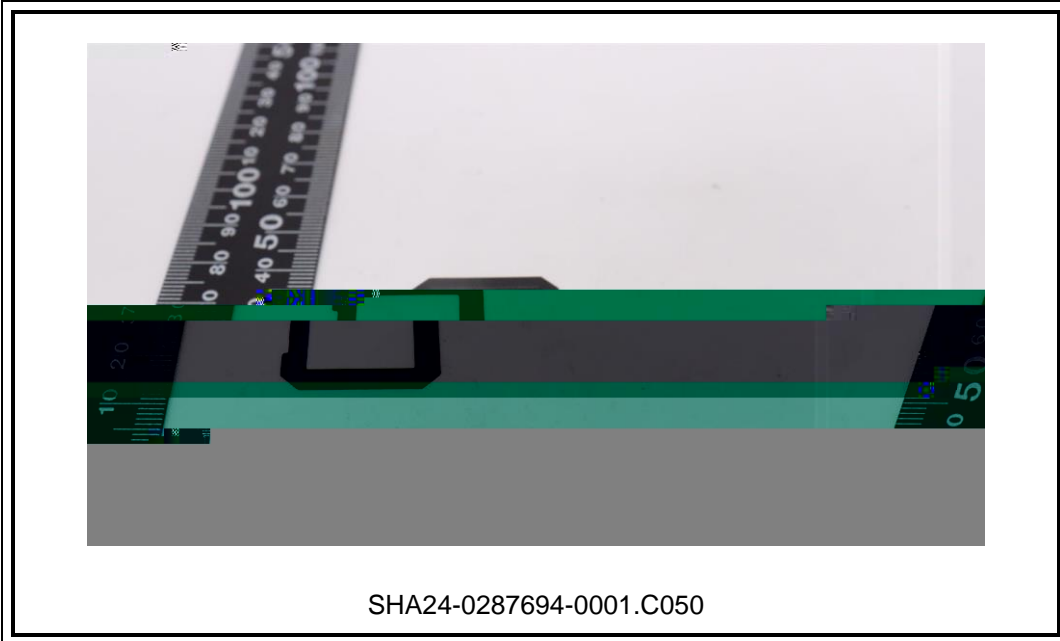




# Test Report

No.: SHAEC24028769415





SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*

