Test Report

Report No.：NAP2509091901E

Applicant: Dongguan Xinke Electronic Technology Co., Ltd

Address: Unit 101, Building 9, Huijing Kelun Bay Garden, No. 150 Shatian Avenue, Shatian Town, Dongguan City, Guangdong Province

The following test sample information is provided and confirmed by the applicant:

Sample Name: Impact Label / Anti-Tilt Label

Model: 1. Multi-angle Anti-Tilt Label, 2. Herringbone Anti-Tilt Label, 3. Humidity Indicator Card, 4. Temperature Label, 5. First Generation Shockproof Label, 6、Second Generation Shockproof Label, 6、 Shockproof Ball, Fragile Label, 7、Fork-Proof Label

Date of sample(s) received： Sep.25,2025

Date of Test Period： Sep.25,2025 ~Sep.29,2025

Date of Report： Sep.29,2025

TEST REQUESTED	CONCLUSION
1. As specified by client, to determine the EU RoHS Directive 2011/65/EU Annex II and amending Directive (EU) 2015/863 substance content in the submitted sample.	PASS

NAP Testing Technology Service (Zhongshan) Co., LTD

Lian Yi

Authorized Signatory

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Test Result(s)：

1. EU RoHS Directive 2011/65/EU Annex II and amending Directive (EU) 2015/863 substance content

1.1 SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
001	001	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
002	002	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
003	003	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
004	004	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
005	005	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	
006	006	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
007	007	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
008	008	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
009	009	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
010	010	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.A.	

Remark(s):
- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Mg/kg = parts per million = ppm
- N/T = Not tested
- N.A.= Not applicable

-The customer selects the testing site, and the chemical testing conclusion only applies to the selected part.

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1.2 Total Phthalates Content

Test Method: IEC 62321-8: 2017

Analyte	CAS No.	Requirement (Max.), %	Reporting Limit, %	Sample, %
				001+002+004+006+007+008+009
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Rating				PASS

Remark(s):

-"<" means less than

-Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD)

-The test results only apply to the items tested.

-The customer selects the testing site, and the chemical testing conclusion only applies to the selected part.

TEST METHODS:

(1) Sample prepared with reference to IEC 62321-2 Ed1.0:2021 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;

(2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr^{6+}.

(b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr^{6+}) and GC/MS(for PBBs, PBDEs) is recommended to be performed.

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
Cd	BL≤(70-3σ) <X<(130+3σ) ≤OL	BL≤(70-3σ) <X<(130+3σ) ≤OL	LOD < X < (150+3σ)≤ OL
Pb	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Hg	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Cr	BL≤(700-3σ) <X	BL≤(700-3σ) <X	BL≤(500-3σ) <X
Br	BL≤(300-3σ) <X	--	BL≤(250-3σ) <X

Remark(s):

BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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TEST METHODS:

(3) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.1:2017, by acid digestion and determined by ICP-OES	5.0mg/kg	1000mg/kg
Cr^{6+} (for non-metal)	With reference to IEC 62321-7-2 Ed1.0:2017, by the colorimetric method	5.0mg/kg	1000mg/kg
Cr^{6+} (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by the water-boiling method	/	/
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
DEHP,BBP,DBP, DIBP	With reference to IEC 62321-8 Ed1.0:2017 clause 8.2.1.4 by gas chromatography-mass spectrometry	50mg/kg	1000mg/kg

Remark(s): According to IEC 62321-7-1 Ed1.0:2015, result on Cr^{6+} for metal sample is shown as Positive/Negative.

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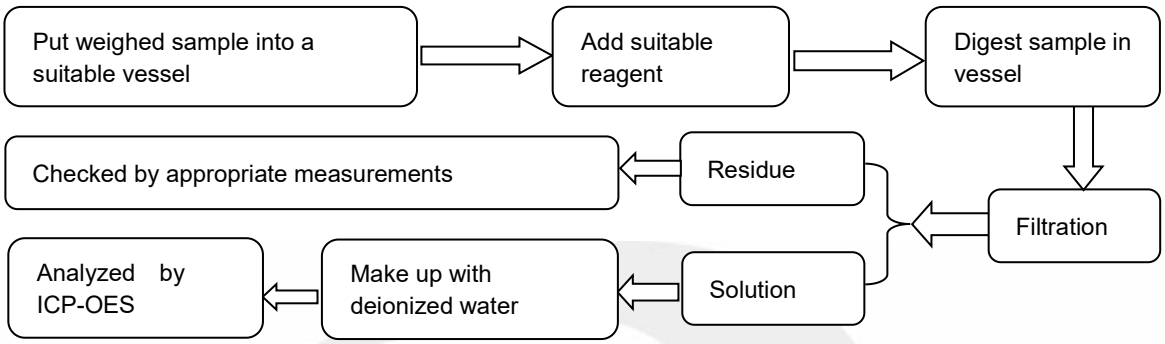
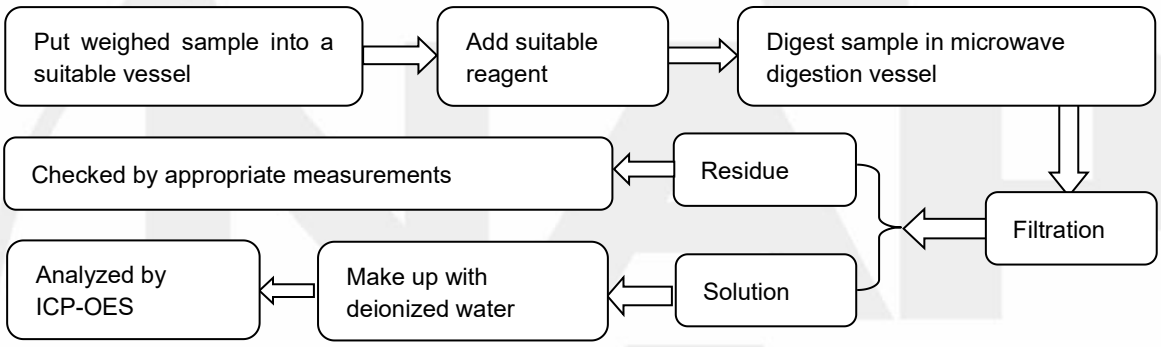
TEST PROCESS

1. Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):

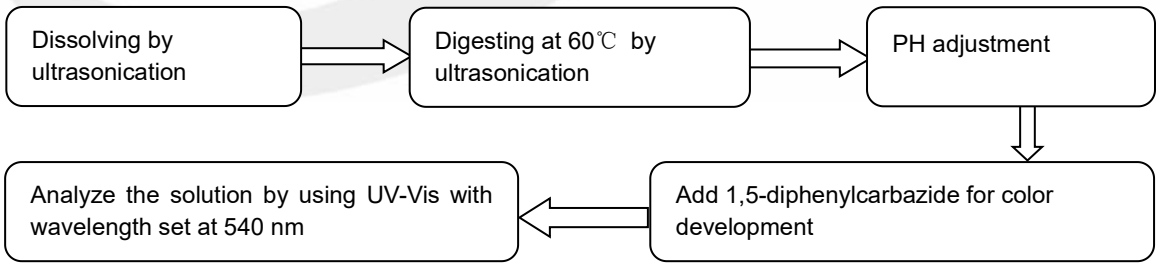


2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.1:2017):



3. Test for Nonmetallic Materials Chromium(Cr(VI)) contents (IEC 62321-7-2 Ed1.0:2017):

3.1 ABS/PC/PVC



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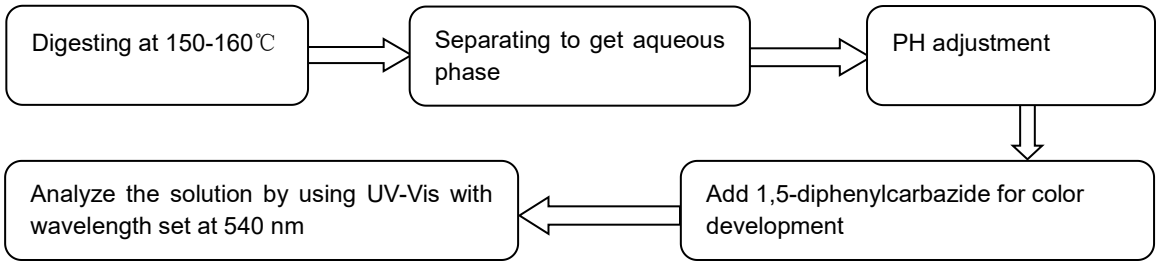
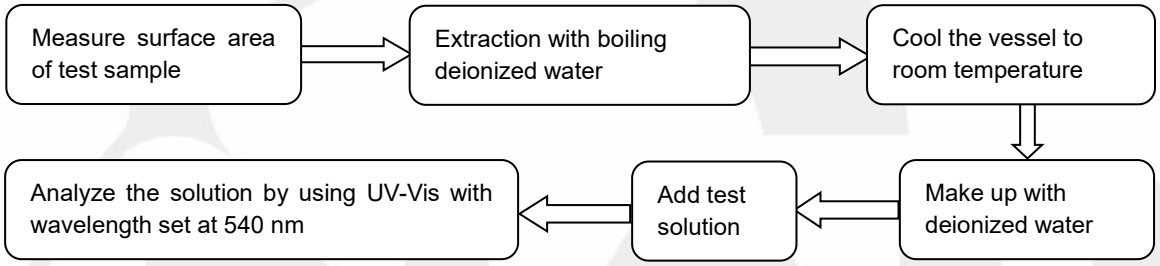
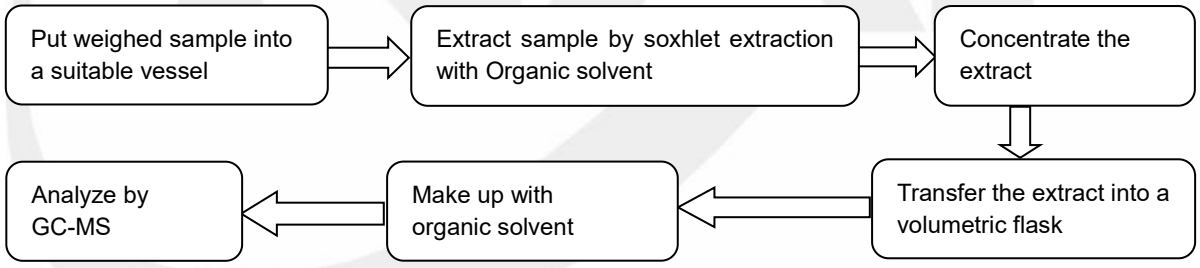
3.2 others



4. Test for metal Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



5. Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):



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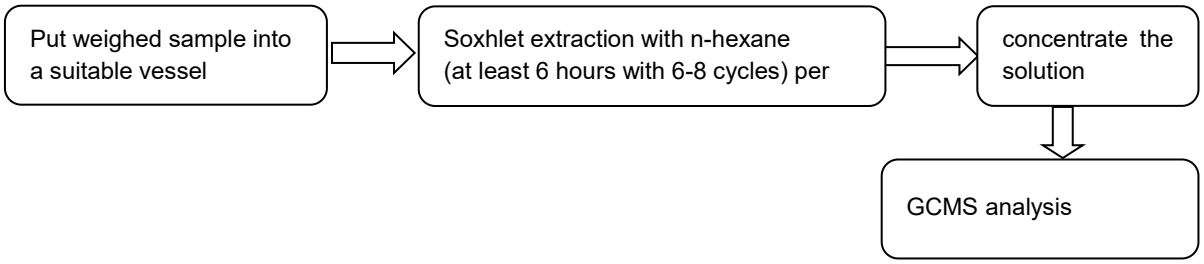
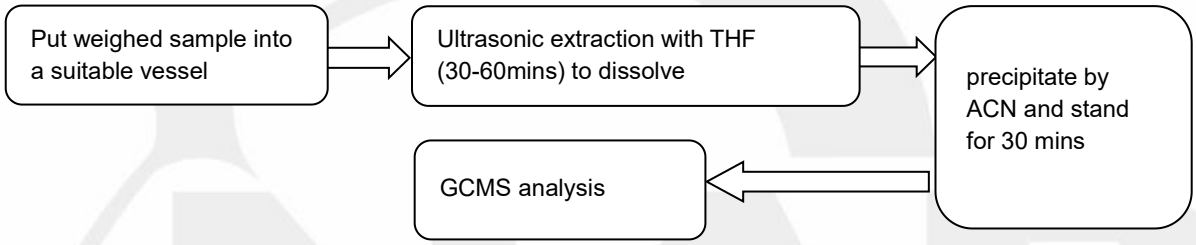
6. Test for Phthalate content (DEHP,BBP,DBP,DIBP) (IEC 62321-8 Ed1.0:2017):

6.1 Test for general polymer



6.2 Test for THF soluble polymer



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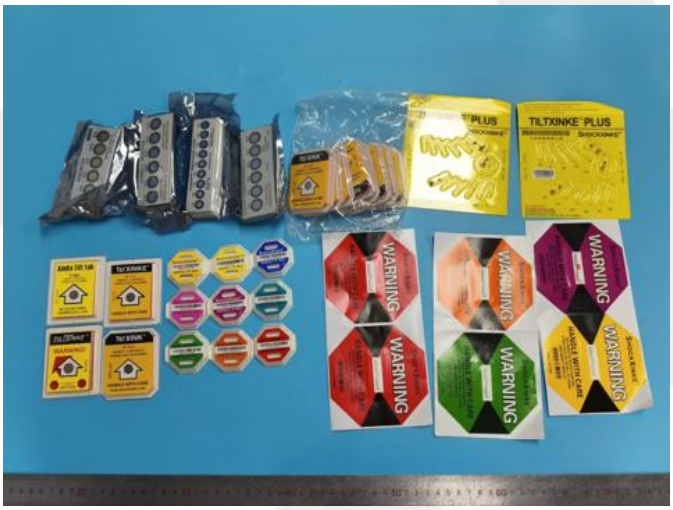
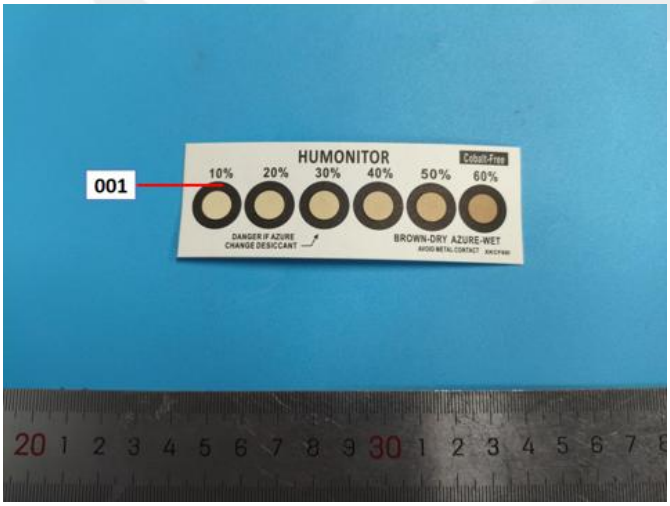
Sample description:

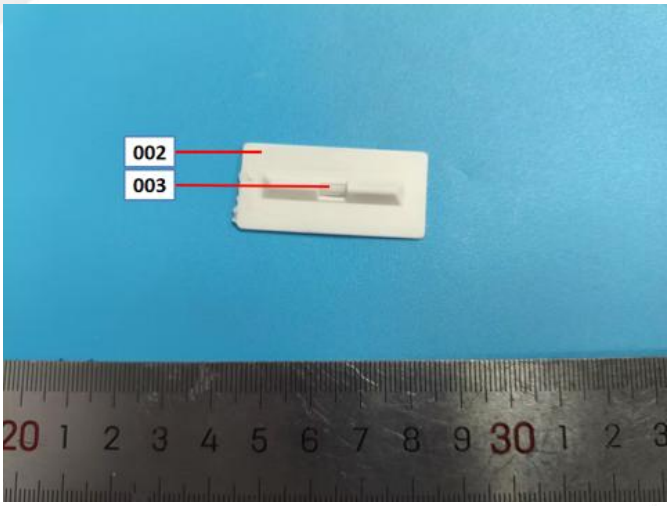
(001) Multi colored cardboard
(002) White plastic shell
(003) White glass tube
(004) Transparent plastic cover
(005) Copper colored metal ball bearings
(006) Yellow sticker
(007) Transparent acrylic shell
(008) Transparent plastic adhesive
(009) Red plastic board
(010) Silver metal sheet

Photo(s) of test sample(s):



(whole product)





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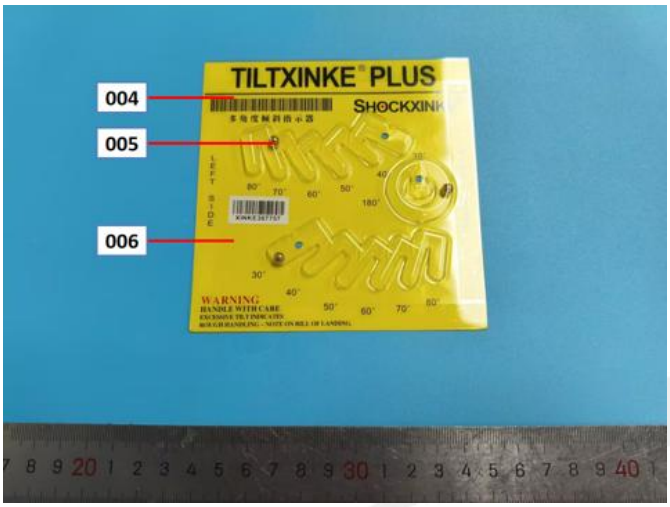

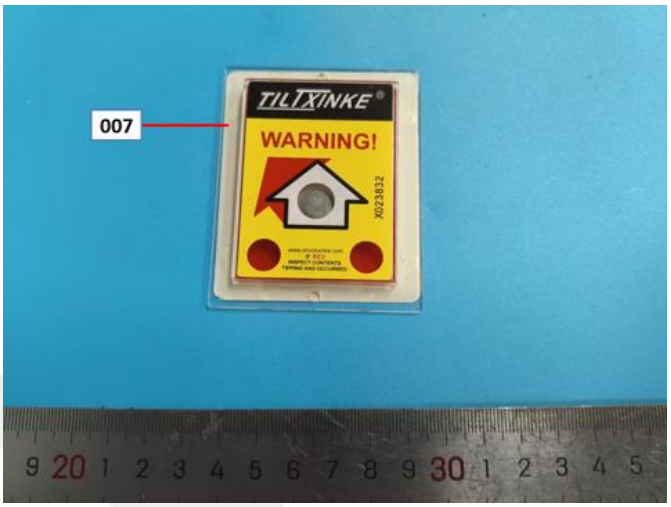

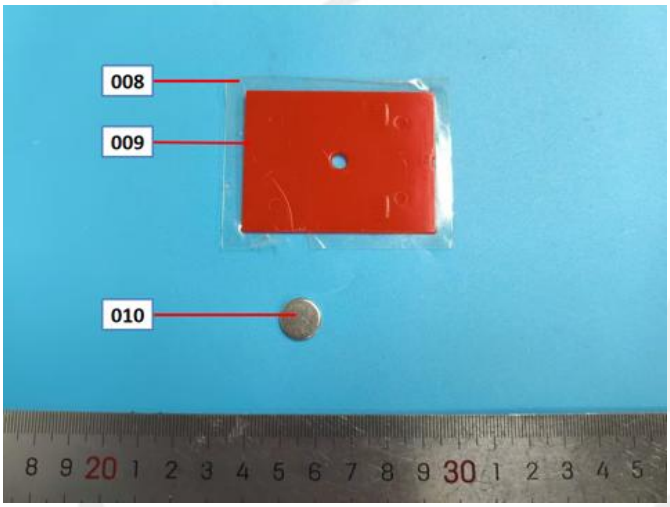

********** End of Report **********

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