



TEST REPORT

REPORT No.: DTI2026EE190805R

Date: 2026-08-13

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Applicant Company Name: Wenzhou Zhengyuan Electronic Co., Ltd.

Applicant Company Address: Room 401, 6 building, NO.1 Hongjin Road, Lucheng District, Wenzhou City, Zhejiang Province (Lucheng equipment manufacturing Industrial Park)

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : Voltage tester

Model No. : VD06

Additional Model :

88-2/88-2A/88-2B/88-4/88-5/88-6/88-12/88-12A/88-12B/88-28/88-97/BT-168D/
BT-168/1AC-D/6885-48/6885-58/6885-68/6885-78/6885-88/6877-58/6877-68/
6877-78/6877-88/1881/130805/1308055/130855/1308555/130905/1309055;
VD02/VD05/VD07/VD08/VD09/D10/VD11/VD12/VD21/VD22/VD80/VVD123/VD111/
VD1000/VD500/VD800/VD168/VD200/VD211/VD888/VD777/VD666/VD000/VD111/
HW311/HW312/HW68A/HW68B/HW170/HW171/HW172/HW173/YT-2861/YT-2862/
YT-2864/YT-2865/YT-2866/YT-28630/YT-28631/YT-312/MVD765/MVD765A/
MVD765B/MVD765C/MVD765D/EW911/EW000/EW111/EW1000;
WILK301/WILK302/WILK303/WILK305/WILK307/WILK308/WILK309/WILK310/
WILK311/WILK312/WILK313/WILK315/WILK316/WILK317/WILK318/WILK319/
WILK320/WILK101/WILK102/WILK103/WILK105/WILK106/WILK107/WILK108/
WILK109

Sample Receiving Date : August 05, 2026; August 11, 2026

Testing Period : From August 05, 2026 to August 13, 2026

Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU (**RoHS**)

Pass

Shenzhen Deesev Testing International Corporation

Approved by: Tommy Jiang
Tommy Jiang / Lab Manager

CONCLUSION

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Results:

1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2026^, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Red Plastic Case	BL	BL	BL	BL	BL
2	Black Coating	BL	BL	BL	BL	BL
3	Black Plastic Case	BL	BL	BL	BL	BL
4	White Plastic Case	BL	BL	BL	BL	BL
5	PCB	BL	BL	BL	BL	BL
6	Solder Point	X	BL	BL	BL	N/A
7	Triode	BL	BL	BL	BL	BL
8	Patch Resistor	BL	BL	BL	BL	BL
9	LED	BL	BL	BL	BL	BL
10	Yellow Plastic Sticker	BL	BL	BL	BL	BL
11	Silvery Metal Sheet	BL	BL	BL	BL	N/A
12	Golden Metal Sheet	BL	BL	BL	BL	N/A
13	Black Ceramic Base	BL	BL	BL	BL	BL
14	Black Ceramic Body Chip	BL	BL	BL	BL	BL
15	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
16	Silvery Metal Sheet	BL	BL	BL	BL	N/A
17	LED	BL	BL	BL	BL	BL
18	Silvery Metal Sheet	BL	BL	BL	BL	N/A
19	Silvery Metal Spring	BL	BL	BL	BL	N/A
20	Silvery Metal Sheet	BL	BL	BL	BL	N/A

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Black Plastic Case	BL	BL	BL	BL	BL
22	Black Plastic Base	BL	BL	BL	BL	BL
23	Silvery Metal Sheet	BL	BL	BL	BL	N/A
24	Black Soft Magnet	BL	BL	BL	BL	BL
25	Silver Metal Magnet	BL	BL	BL	BL	N/A
26	Copper Winding	BL	BL	BL	BL	N/A
27	Black Adhesive	BL	BL	BL	BL	BL
28	PCB	BL	BL	BL	BL	BL
29	Solder Point	BL	BL	BL	BL	N/A
30	Yellow Soft Plastic	BL	BL	BL	BL	BL

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Remark:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2026[^].

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive
N/A = Not Applicable

- (2) 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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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	≤100
Lead (Pb)	≤1000
Mercury (Hg)	≤1000
Hexavalent Chromium (Cr(VI))	≤1000
Polybrominated biphenyls (PBBs)	≤1000
Polybrominated diphenyl ethers (PBDEs)	≤1000
Bis(2-ethylhexyl) phthalate (DEHP)	≤1000
Benzyl butyl phthalate (BBP)	≤1000
Dibutyl phthalate (DBP)	≤1000
Diisobutyl phthalate (DIBP)	≤1000

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2、The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC 62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Optical Emission Spectrophotometer (ICP-OES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

DEHP, BBP, DBP & DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of Pb

Item	Unit	MDL	Results	Limit
			6	
Lead(Pb)	mg/kg	2	ND*	≤1000
Conclusion	/	/	Pass	/

Note:

- ND = Not Detected
- MDL = Method Detection Limit
- mg/kg = ppm
- *= This data is the corrected retest data.

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2) The test results of DEHP, BBP, DBP & DIBP

Item	Unit	MDL	Results					Limit
			1	2	3	4	5	
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Diisobutyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			7	8	9	10	13	
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Diisobutyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			14	15	17	21	22	
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Diisobutyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			24	27	28	30	
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	≤1000
Benzyl butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Diisobutyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- ND = Not Detected
- 0.1%=1000mg/kg
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39:Decision rule for conformity of the test results.
- Flow chart appendix is included.
- Photo appendix is included.
- ^=The method were not accredited by CNAS.

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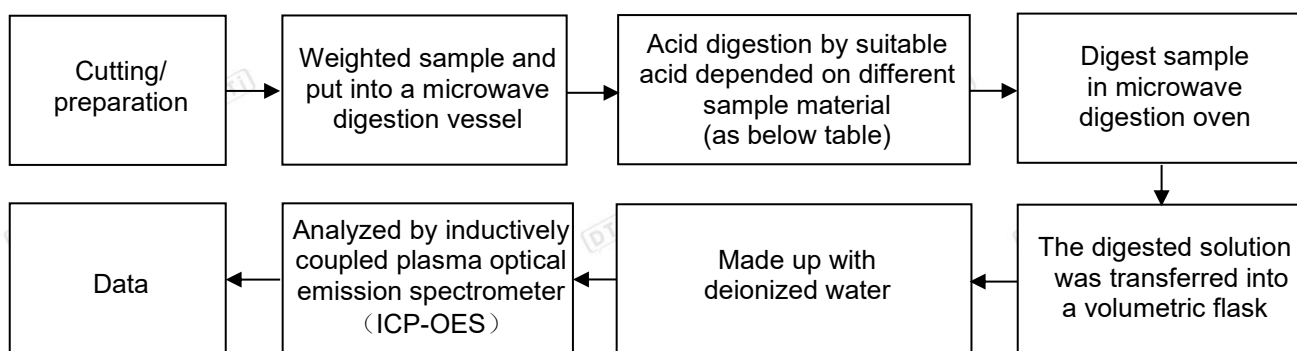
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Appendix I

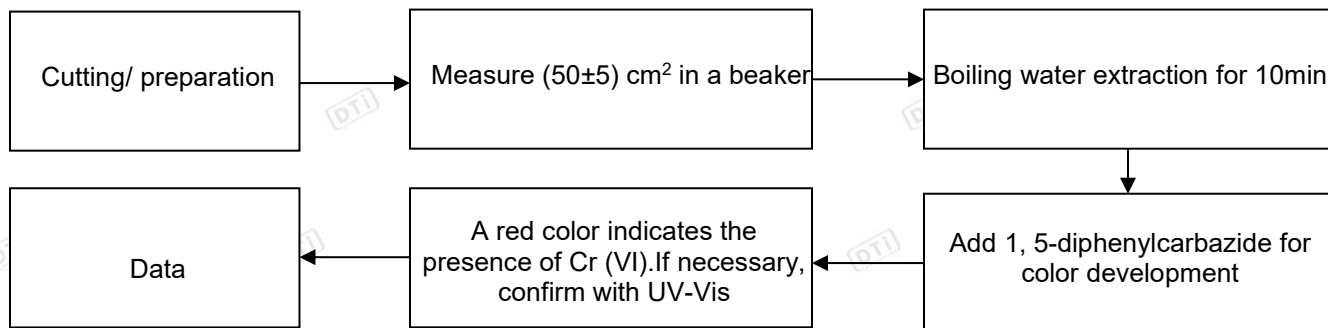
Test Flow chart

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

1. Test Flowchart for Cd / Pb /Hg content



2. Test Flowchart for Cr⁶⁺ content (Metal material)



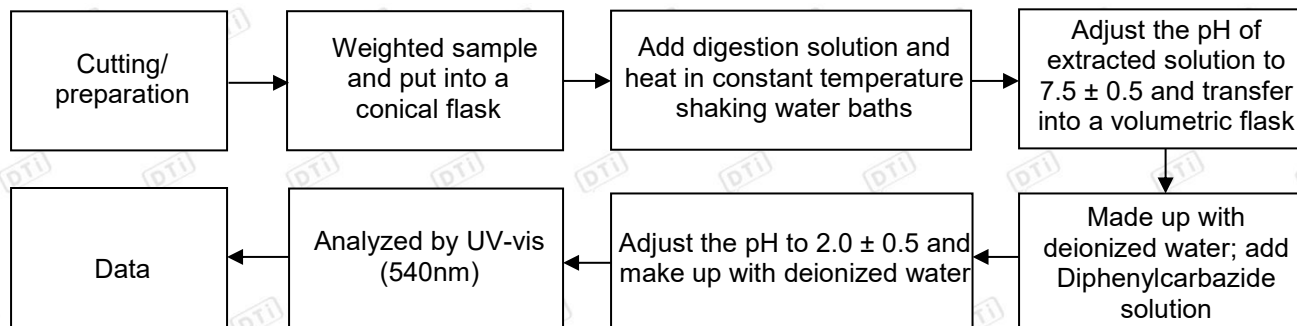
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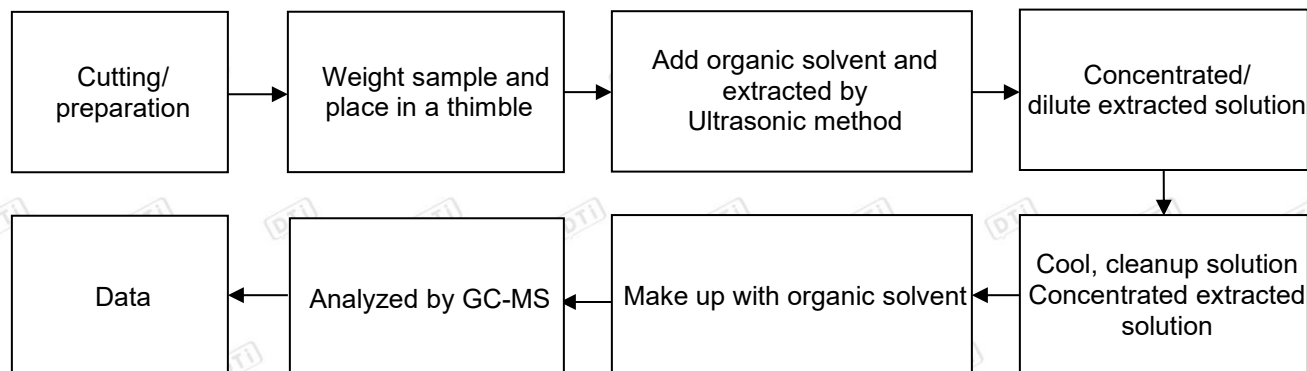
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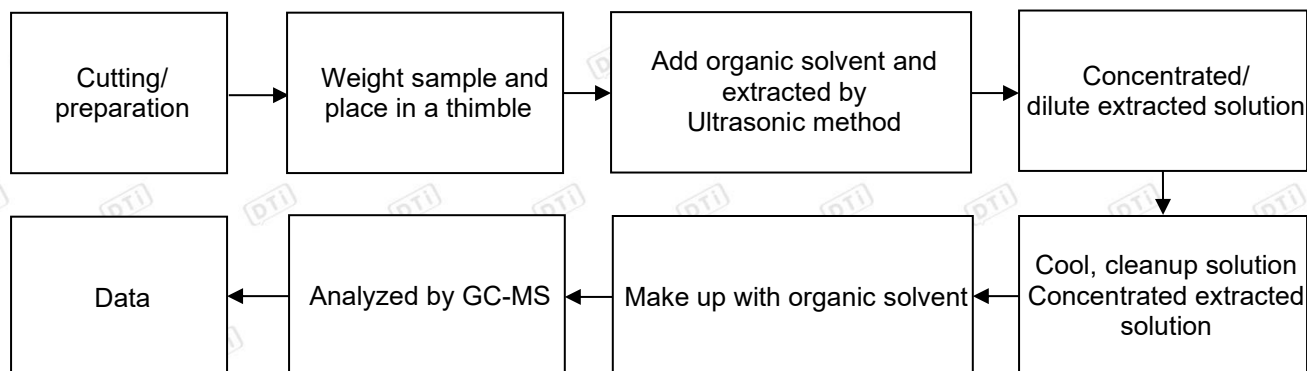
3. Test Flowchart for Cr⁶⁺ content (Non-metal material)



4. Test Flowchart for PBBs & PBDEs content



5. Test Flowchart for DEHP, BBP, DBP & DIBP content



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Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl

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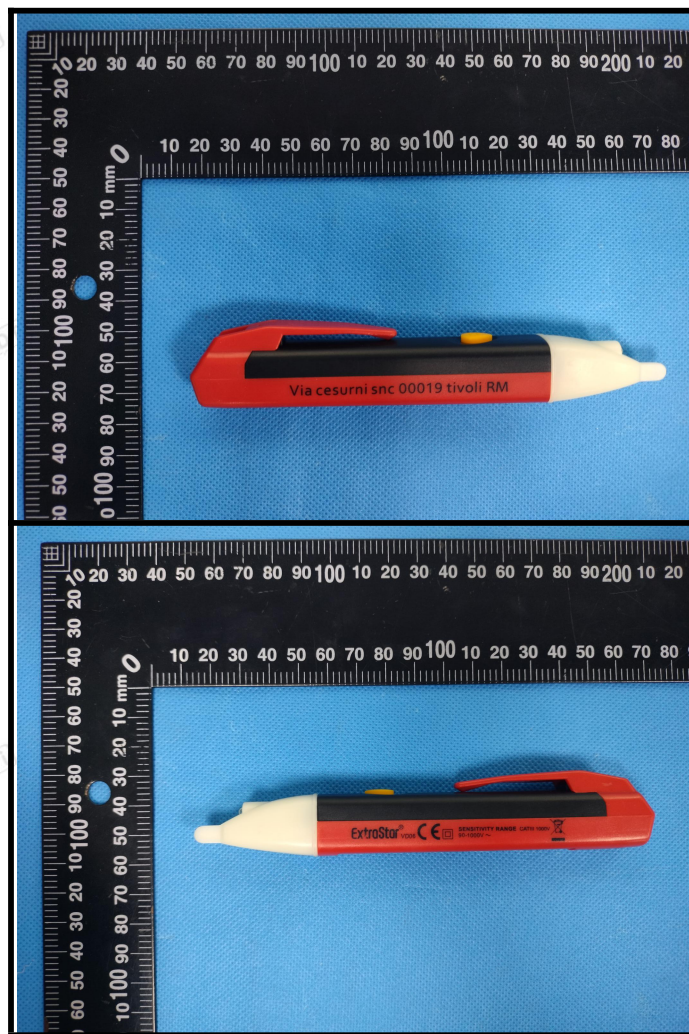
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Appendix II

Photograph of Sample



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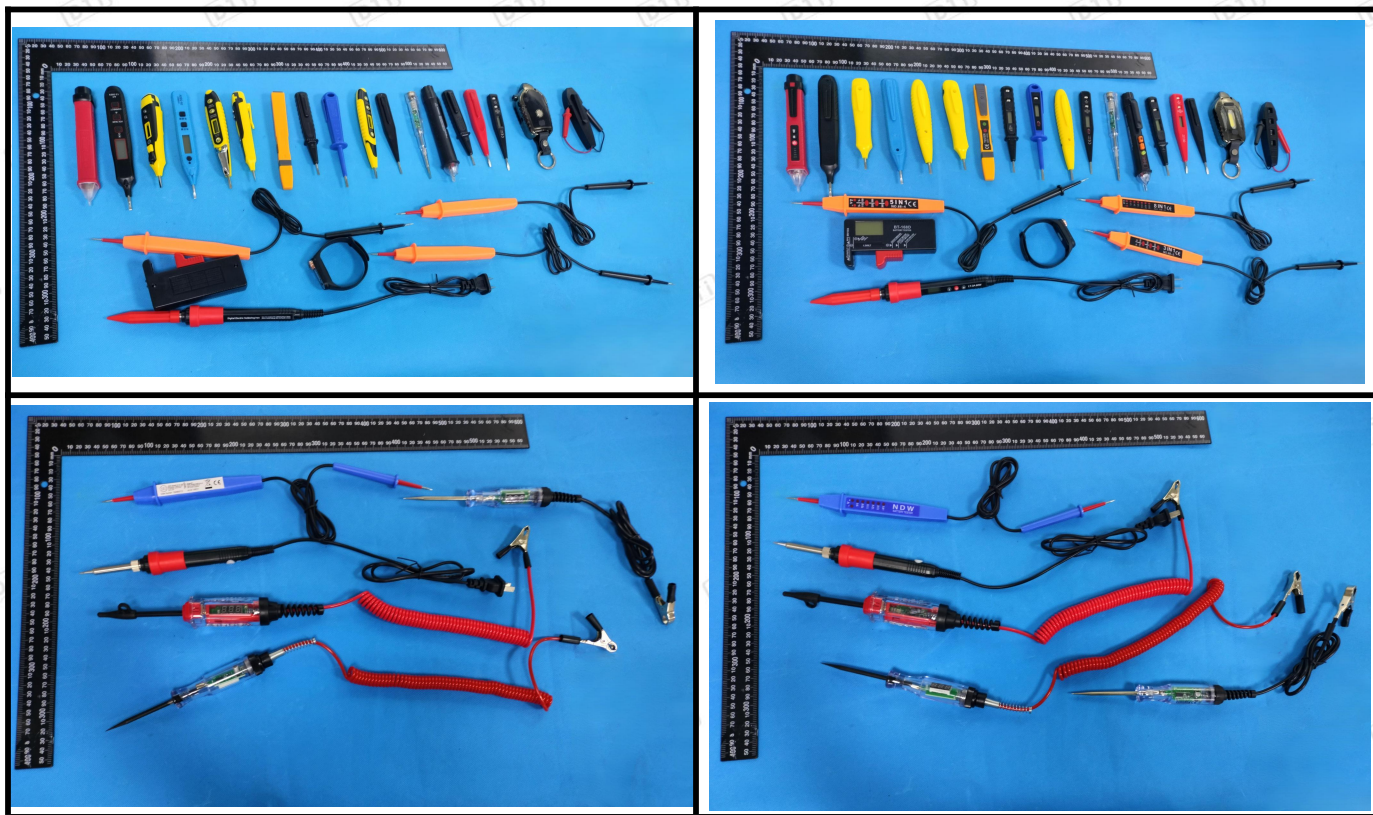
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Additional photos



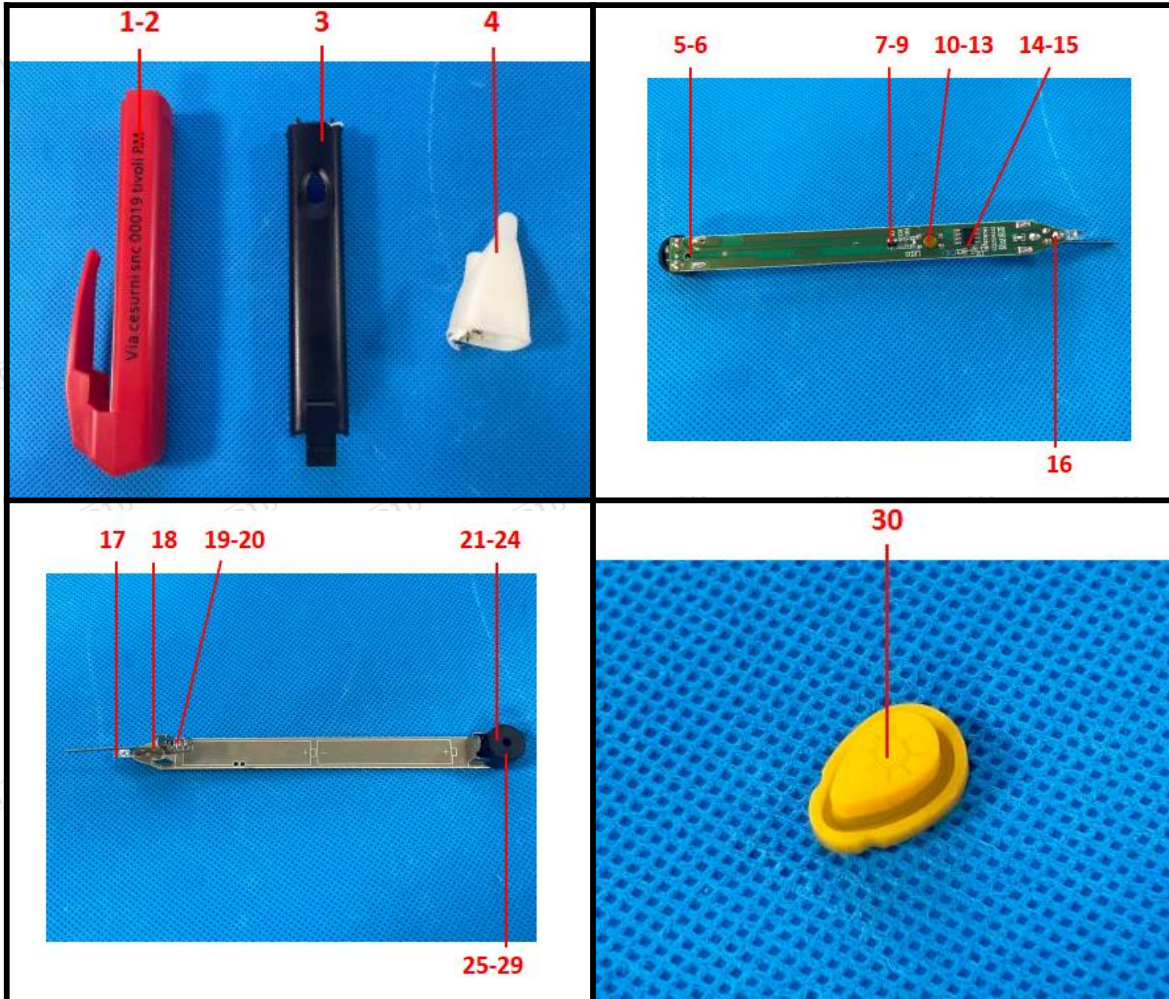
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*** End of Report ***

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