TEST REPORT

Report No.:RCT202608120301R

Applicant:	LINK-PP INT'L TECHNOLOGY CO., LIMITED No.54, South of Jinhu Road, Chenjiang Town, Zhongkai District,Huizhou City, 516003, Guangdong,China
Manufacturer:	LINK-PP INT'L TECHNOLOGY CO., LIMITED No.54, South of Jinhu Road, Chenjiang Town, Zhongkai District,Huizhou City, 516003, Guangdong,China
Factory:	LINK-PP INT'L TECHNOLOGY CO., LIMITED No.54, South of Jinhu Road, Chenjiang Town, Zhongkai District,Huizhou City, 516003, Guangdong,China
Product Name :	SFP Optical Transceiver
Trade mark :	N/A
Model :	LS-SM311G-10C
Prepared By :	Shenzhen RCT Testing Technology Service Co., Ltd.. 1507, NO.8 Building, Hengda Shishang Huigu Center, Fulong Road, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong
Test Date:	Aug. 12 , 2026 - Aug. 19 , 2026
Date of Report :	Aug. 19 , 2026
Report No.:	RCT202608120301R
Results:	Please refer to next page(s).

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TEST REQUEST

According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diisobutyl phthalate (DIBP) content comply with the limit as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

CONCLUSION

Pass

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Shenzhen RCT Testing Technology Service Co., Ltd.

1507, NO.8 Building, Hengda Shishang Huigu Center, Fulong Road, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong

Signed for and on behalf of RCT

Hannah Li

Lab manager

TEST REPORT

Results:

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

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

No.	Tested Part(s)	Results								
		Cd	Pb	Hg	Cr(Cr(VI))▼	Br▼ (PBBs&PBDEs)	DBP	BBP	DEHP	DIBP
01	Screw	BL	BL	BL	BL	/	/	/	/	/
02	Black plastic	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	White sticker	BL	BL	BL	BL	BL	BL	BL	BL	BL
04	Silver metal	BL	BL	BL	BL	/	/	/	/	/
05	Silver metal	BL	BL	BL	BL	/	/	/	/	/
06	Blue plastic	BL	BL	BL	BL	BL	BL	BL	BL	BL
07	Yellow plastic	BL	BL	BL	BL	BL	BL	BL	BL	BL
08	Silver metal	BL	BL	BL	BL	/	/	/	/	/
09	Soldering tin	BL	BL	BL	BL	/	/	/	/	/
10	Green PCB board	BL	BL	BL	BL	BL	BL	BL	BL	BL
11	IC	BL	BL	BL	BL	/	/	/	/	/

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Note:

(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 62321-3-1:2013.

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

Note:

BL = Below Limit

OL = Over Limit

X = Inconclusive

(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.

(3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:

(4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

(5) Test method:

Lead (Pb) & Cadmium (Cd) Content:
With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury (Hg) Content:
With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium (Cr*) Content:
With reference to IEC 62321-7-1:2015 or 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)

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

RoHS Restricted Substances	Unit	MDL	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	mg/kg	2	100
Lead (Pb)	mg/kg	2	1000
Mercury (Hg)	mg/kg	2	1000
Hexavalent Chromium (Cr(VI))	ug/cm^2 (Metal); mg/kg (Nonmetal)	0.1ug/cm^2 (Metal); 8mg/kg (Nonmetal)	See below (Metal); 1000mg/kg (Nonmetal)
Polybrominated biphenyls (PBBs)	mg/kg	5	1000
Polybrominated diphenyl ethers (PBDEs)	mg/kg	5	1000
Dibutyl Phthalate (DBP)	mg/kg	50	1000
Benzyl butyl Phthalate (BBP)	mg/kg	50	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	50	1000
Diispbutyl Phthalate (DIBP)	mg/kg	50	1000

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- mg/kg = ppm=parts per million
- N.D.=Not Detected (<MDL or LOQ)
- a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr (VI)
  b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10ug/cm²). The sample coating is considered a non- Cr (VI) based coating
  c. The result between 0.10μg/cm² and 0.13μg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination

1 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 5(a), Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.

#2 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(c)-I, Lead is exempted in electronic ceramic or glass parts (e.g. piezo electronic devices).

#3 According to the statement provided by the customer, RoHS directive 2011/65/EU based on ANNEX III 6(c), Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

#4 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 7(a), Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

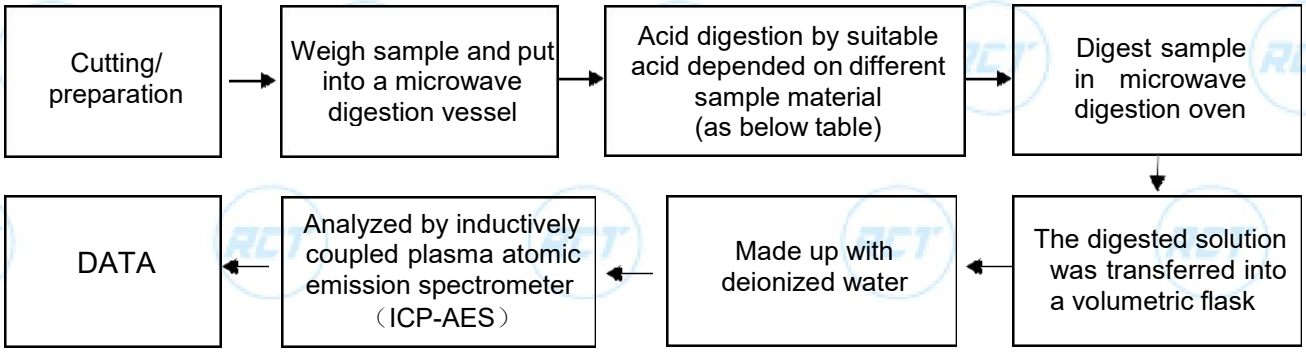
#5 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(b), Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.

#6 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 8(b), Cadmium and its compounds in electrical contact is exempted.

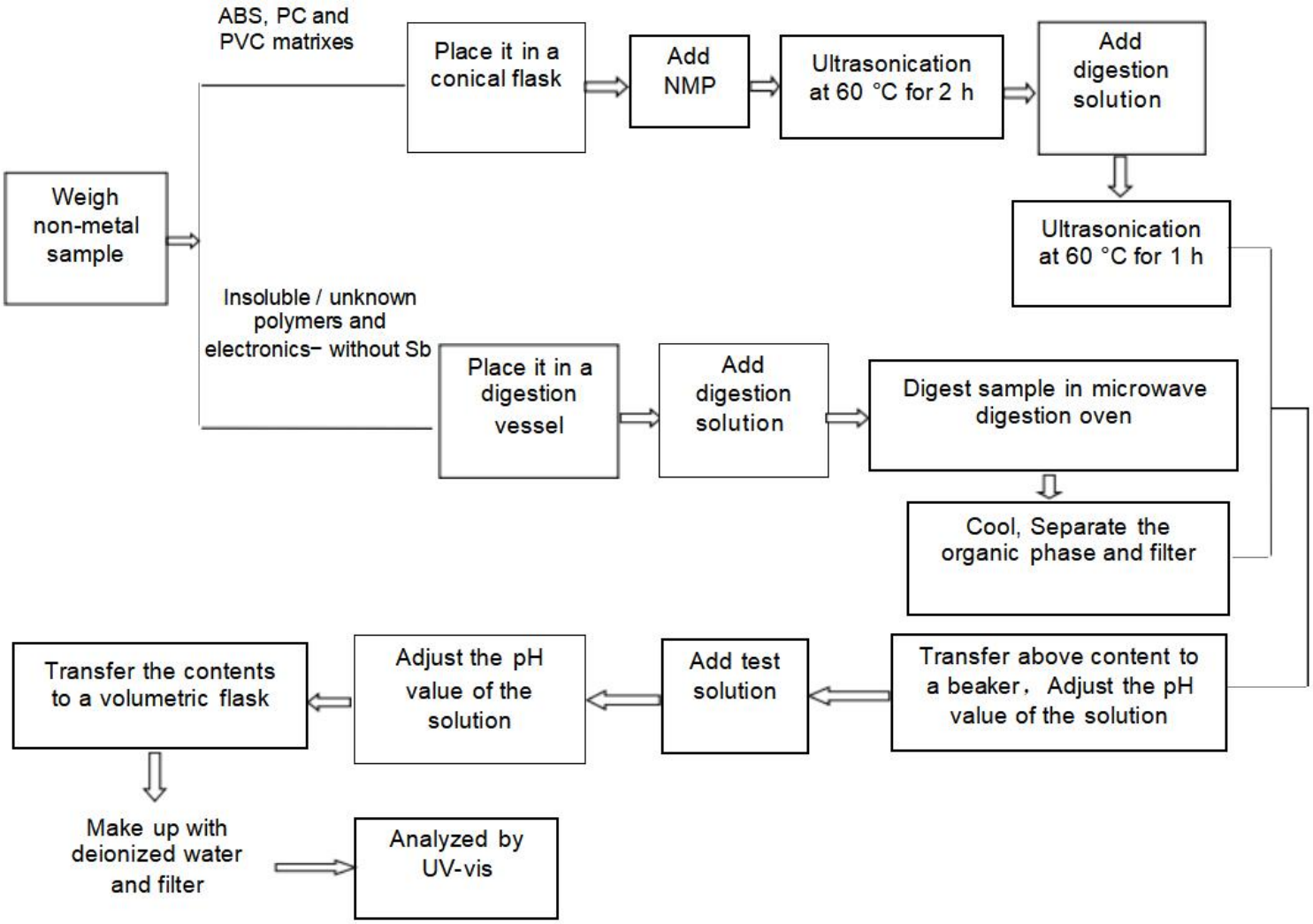
#7 According to the statement provided by the customer, RoHS Directive 2011/65/EU based on ANNEX III 6(a), Lead is exempted in steel for machining purposes and in galvanized steel containing up to 0.35% (3500ppm) by weight.

- Flow chart appendix is included
- Photo appendix is included.

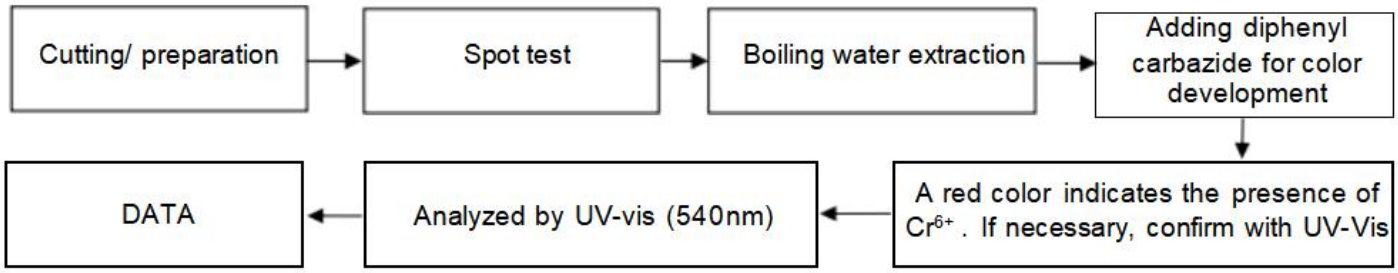
1. Test Flow chart for Cd/Pb /Hg content



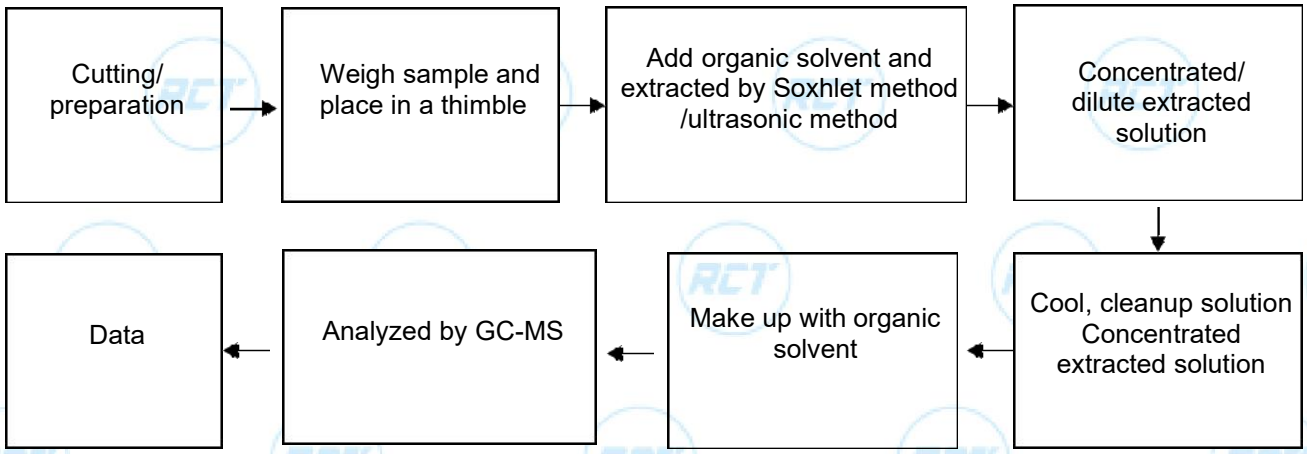
2. Hexavalent Chromium(For non-metal material)



Test Flowchart for Cr^{6+} content (For metal material)



3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



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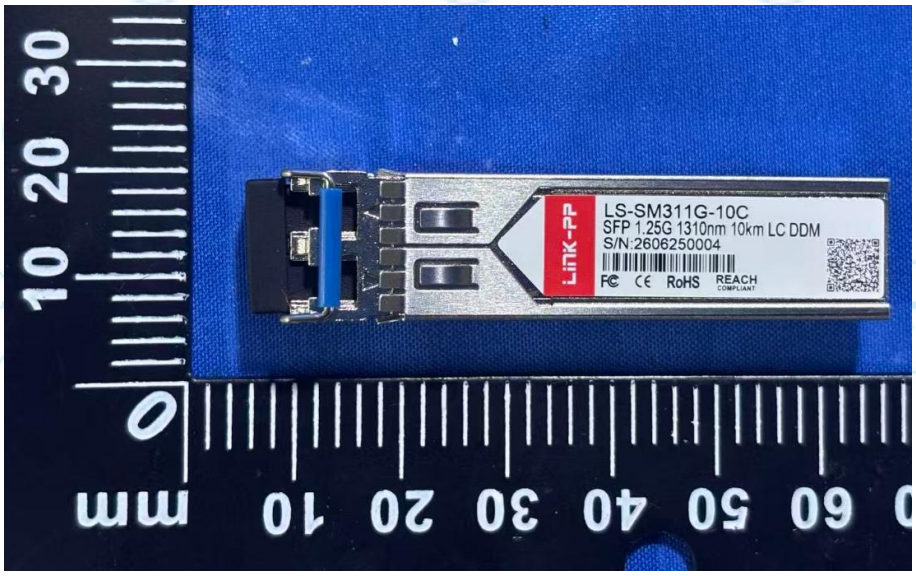
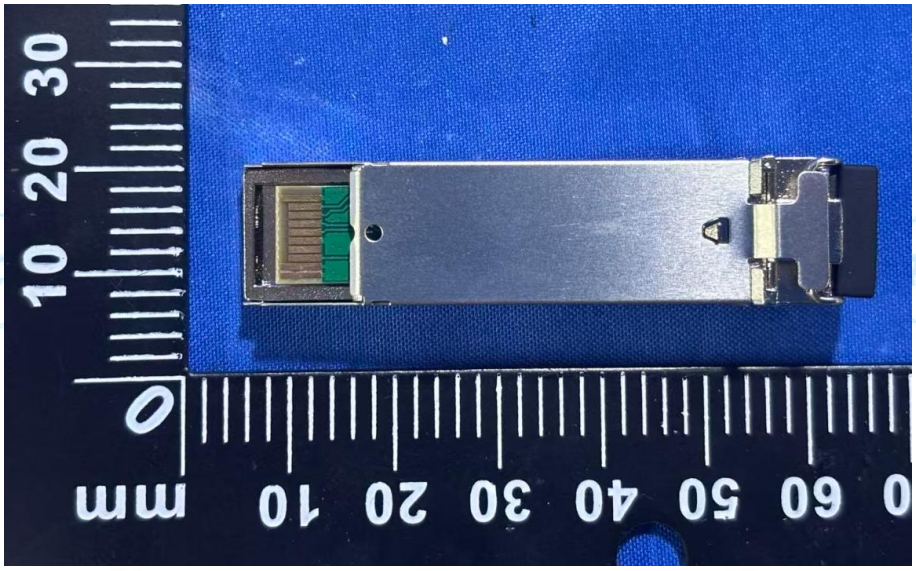
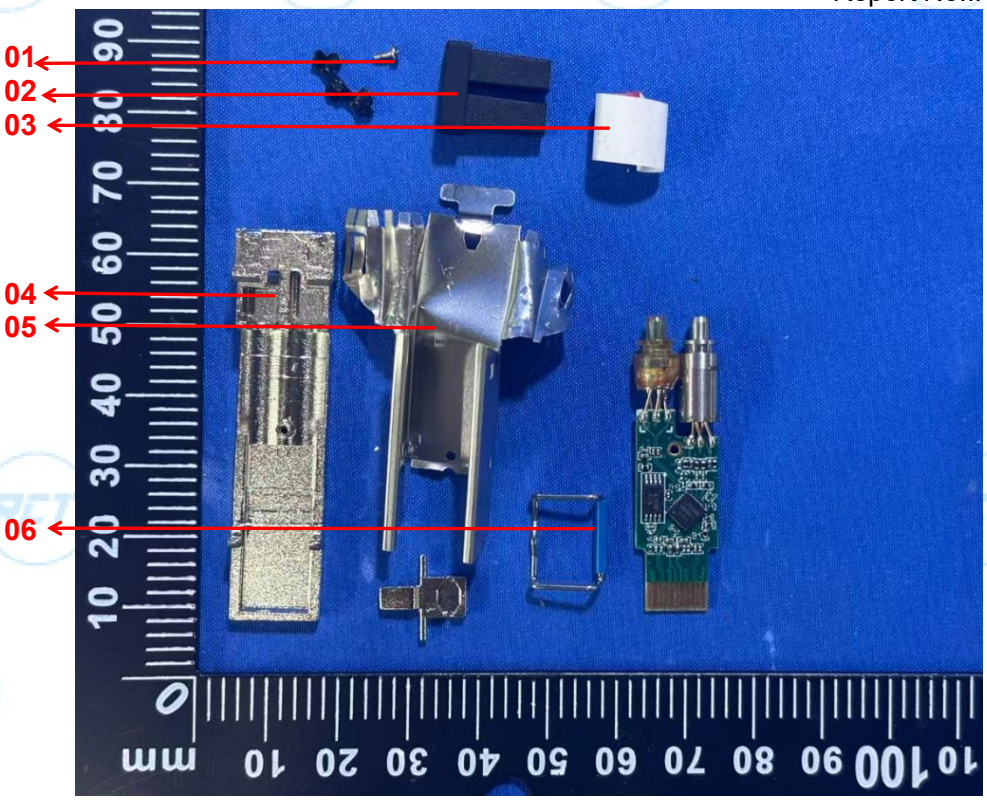
The photo of the sample

RCT authenticate the photo on original report only



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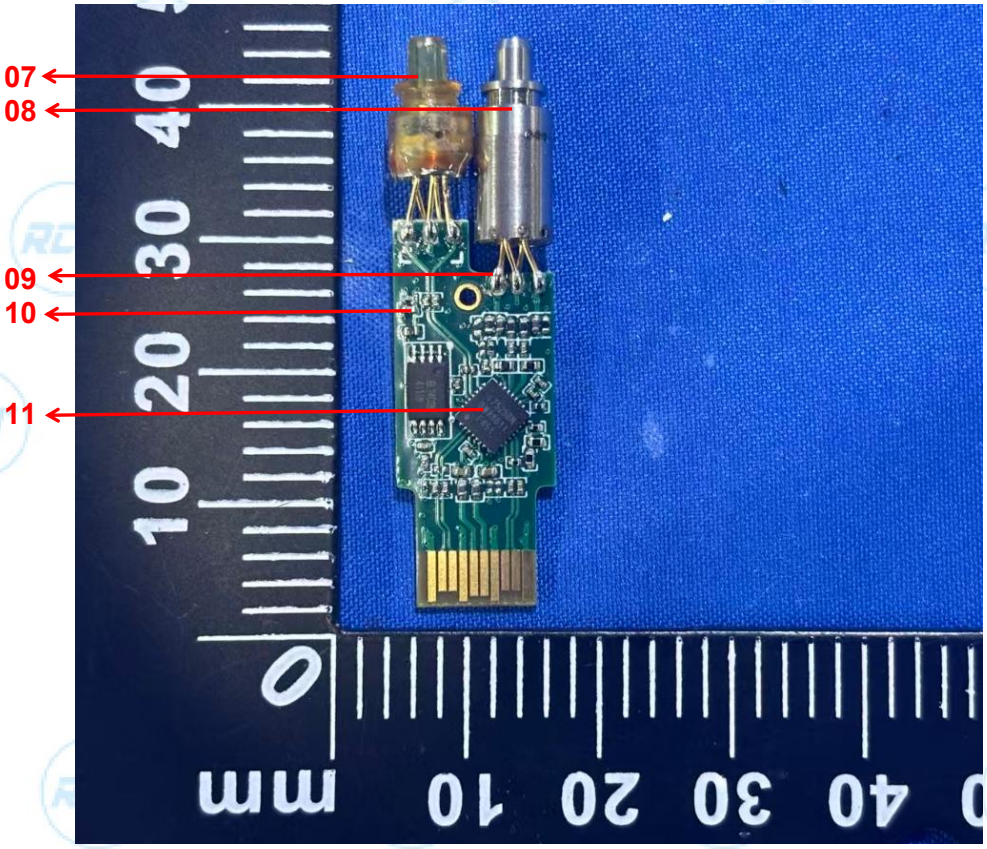
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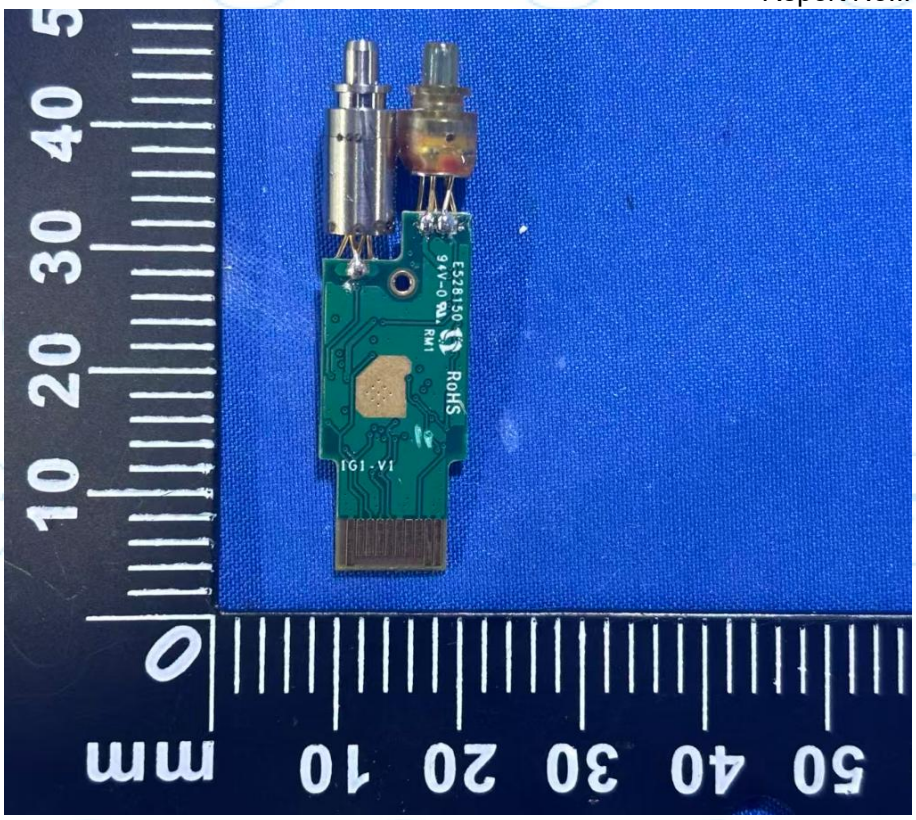
TEST REPORT



******** (End of report) ******

Statement:

1. The test report is considered invalidated without approval signature, special seal on the perforation.
2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of RCT, this report can't be reproduced except in full.
4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which RCT hasn't verified.
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