Shenzhen Toby Testing Co.,Ltd.
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Tel: (86) 0755-28681350 Http: //www.toby.org.cn

TEST REPORT

SAMPLE INFORMATION:

Sample Name:	StiX
Trade Mark:	Navori
Basic Model NO.:	3700
Manufacturer:	Shenzhen MicoRose Technology Co., Ltd.
Manufacturer Address:	8B2A, Daqing Building, southeast of the intersection of Shennan Road and Guangshen Expressway, Futian District, Shenzhen, China

CLIENT INFORMATION:

Applicant:	Navori SA
Applicant Address:	4 rue du Lion d'Or 1003 Lausanne-Switzerland
Date of Receipt:	May 24,2021
Date of Test:	May 24,2021-June 04,2021

Test Requested:

With reference to RoHS Directive 2015/863/EU amending 2011/65/EU.

Test Method:	Please refer to next page(s).
Test Results:	Please refer to next page(s).

Summary	Conclusion
As requested by applicant, the submitted sample was/were tested,with is listed as specimen description in the following page.the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis (2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl Phthalate (BBP), Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	PASS

Signed for Shenzhen TOBY

Xiaoshan. Ni

Xiaoshan Ni (Supervisor)

Shenzhen Toby Testing Inc. TOBY

NOTE: This document is issued by Toby, the test report shall not be reproduced except in full without prior written permission of the company. The test results apply only to the particular sample(s) tested and to the specific tests carried out which is available on request for lidation and information confirmed at our website.

Remark:

(1) There are the results on total Br while tset items on restricted substances are PBBs and PBDEs. There are the results on total Cr while tset items on restricted substances Cr(VI)

(2) Results are obtained by EDXRF for primary screening, and futher chemical testing by ICP-OES (for Cd, Pb, Hg),UV-Vis (for Cr(VI) and GC-MS (for PBBs,PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit:mg.kg)

Element	Polymer Materials	Metal Materials	Composite Materials
Cd	P≤70-3σ＜D＜130+3σ≤F	P≤70-3σ＜D＜130+3σ≤F	P≤50-3σ＜D＜150+3σ≤F
Pb	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Hg	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Br	P≤300-3σ＜D	----	P≤250-3σ＜D
Cr	P≤700-3σ＜D	P≤700-3σ＜D	P≤500-3σ＜D

(a) P = Below Limit, F = Over Limit, D=Inconclusive, LOD=Limit of Detection, ---=Not regulated.

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

(3) Chemical Method

① With reference to IEC 62321-5:2013, determination of Cadmium,Lead by ICP-OES.

② With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.

③ With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by UV-Vis.

④ With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

⑤ With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.

(4) (a) mg/kg=0.0001%,MDL=MDL=Method Detection Limit,(3)ND=Not Detected(<MDL),(4)---=Not Regulated

(b)Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI) for polymer and composite anmple is 10 mg/kg

MDL of Cr(VI) for metal sample is 0.10ug/cm^2

(c) ▼=Metal sample

a. The sample is negative for Cr^{6+} - the Cr^{6+} concentration is below the limit 0.10ug/cm^2. The coating is considered a non-Cr^{6+} based coating.

b. The sample positive for Cr^{6+} if the Cr^{6+} concentration is greater than 0.13ug/cm^2. The sample coating is considered to contain Cr^{6+}.

c. The result between 0.10ug/cm^2 and 0.13ug/cm^2 is considered to be inconclusive unavoidable coating variations may influence the determination.

Test Results and Sample Description

The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P1	Black metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P2	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P3	Yellow plastic tape	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P4	Black plastic tape	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P5	Red plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P6	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P7	Silvery metal conductor	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P8	White plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		$Cr(Cr^{6+})$	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P9	Golden metal ring	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P10	Gold metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P11	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P12	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P13	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P14	Golden metal head	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P15	Grey plastic case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P16	Gold metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P17	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P18	Silvery metal pin	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P19	White plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P20	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	D	N.D.		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P21	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P22	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P23	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	D	N.D.		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P24	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P25	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P26	Gold metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P27	Silvery metal conductor	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P28	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P29	Black plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P30	White plastic shell	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P31	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P32	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P33	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P34	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P35	Silvery metal case	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P36	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P37	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P38	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P39	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P40	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		

Part No.	Part Description	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
P41	Soldering tin	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	---	---		
		DBP,BBP,DEHP,DIBP	---	---		
P42	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P43	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P44	IC	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P45	Black PCB	Pb	P	---	Comply	/
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		
P46	Diode	Pb	P	---		
		Cd	P	---		
		Hg	P	---		
		Cr(Cr^{6+})	P	---		
		Br(PBBs&PBDEs)	P	---		
		DBP,BBP,DEHP,DIBP	---	N.D.		

Remark：

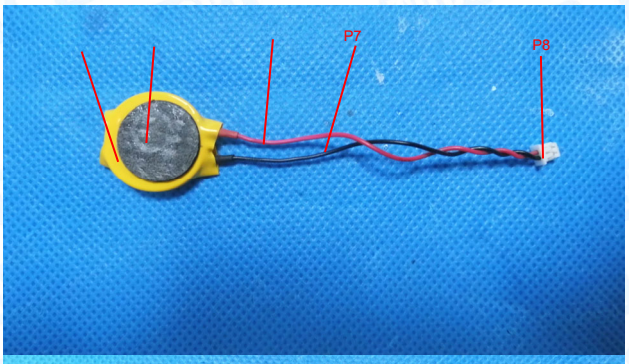
1、*= Lead in copper alloy containing up to 4% lead by weight. The item is exempted from the requirements of the item 6(c) in ANNEX Ⅲ, (Directive 2011/65/EU).

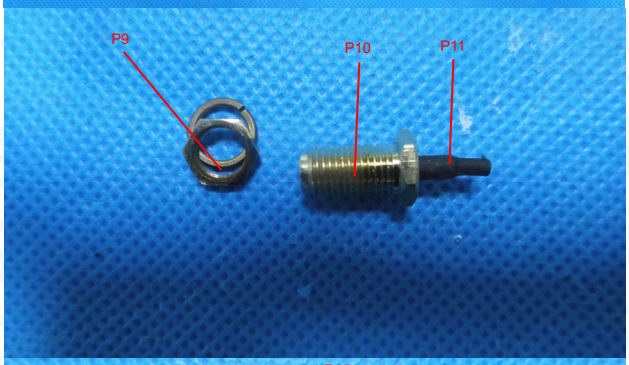
2、&=Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead, The item is exempted from the requirements of the item 7(a) in ANNEX Ⅲ, (Directive 2011/65/EU)

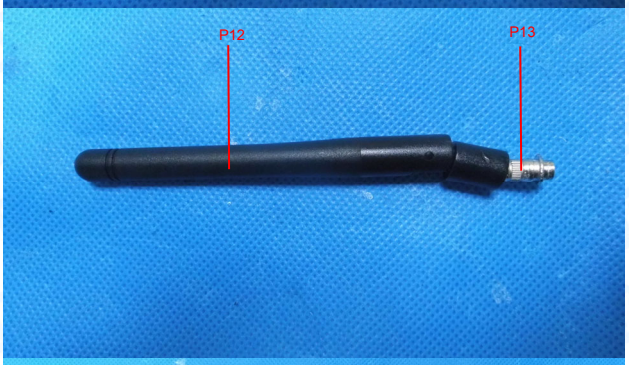
3、Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

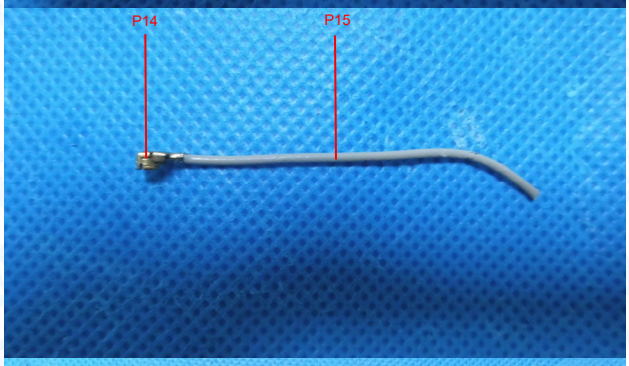
The item is exempted from the requirements of the item 7(c)-I in ANNEX Ⅲ, (Directive 2011/65/EU).

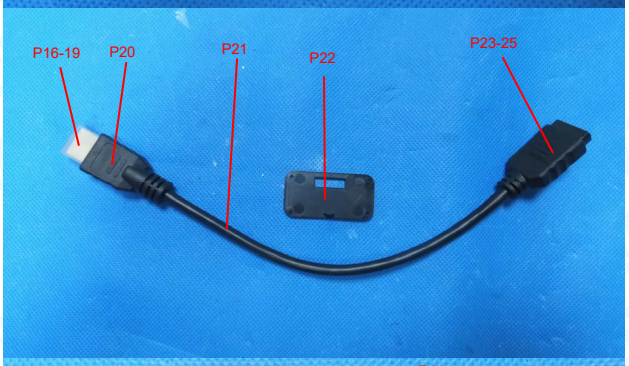
Sample Photo

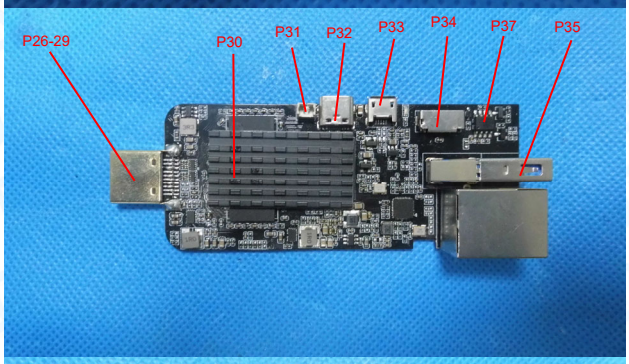


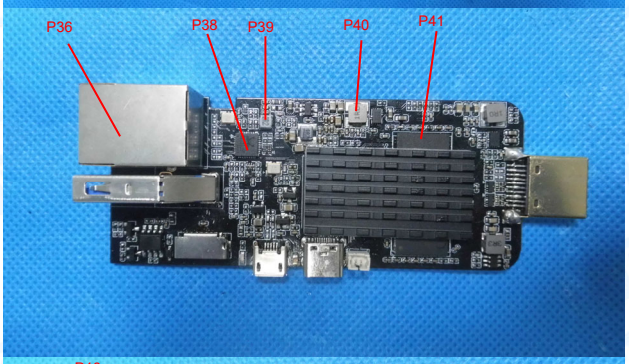


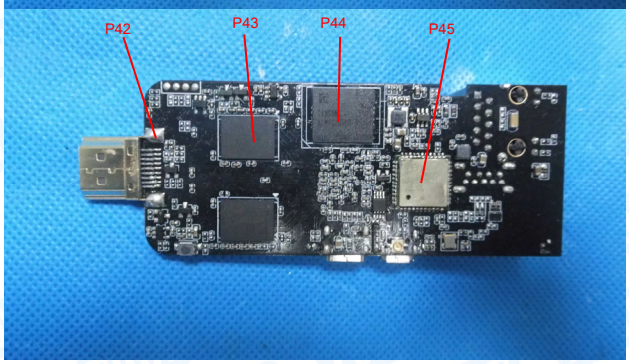


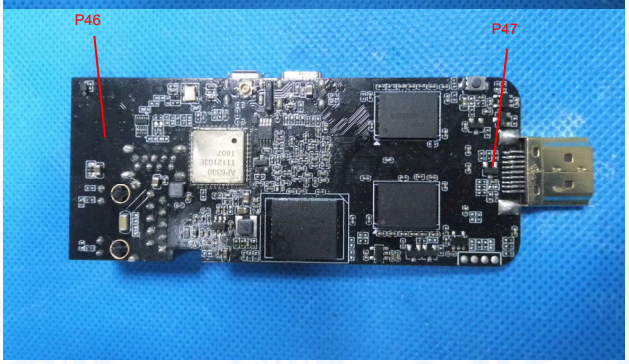












Verify only the photos on the original report.

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