



Test Report

UTLR23094216

Date: Sep.20, 2023

Password:PW7065

Page: 1 of 13

Applicant:DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

The following samples were submitted and identified on behalf of the clients as

Sample Name: Tablet
 Model No: Tab 70 WiFi
 Trade: Blackview
 Manufacturer: Shenzhen DOKE Electronic Co., Ltd
 Address: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

Sample Received Date: Sep.11, 2023
 Test Period: Sep.11, 2023 to Sep.20, 2023
 Test Method: Please refer to next page(s).
 Test Result: Please refer to next page(s).

CONCLUSION :

According to client's request to conduct below tests in the selected parts of the submitted sample:

<u>TEST ITEM</u>	<u>RESULT</u>
1.RoHS Directive 2011/65/EU Annex II amending Annex(EU)2015/863 and amending Annex (EU)2017/2102	
-Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	PASS
-Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Diisobutyl phthalate(DIBP) Content	PASS



Authorized Signatory
Title: Lab Manager

For and on behalf of
Dongguan Universal Testing Technology Co., Ltd.

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Photos of submitted sample



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Test Result(s):

Part No.	Part Description
P1	Transparent glass outer screen
P2	Black plastic border
P3	Black glass inner screen
P4	Transparent plastic plate
P5	Beige plastic border
P6	Transparent reflector
P7	Translucent plastic board
P8	Transparent plastic board
P9	White plastic board
P10	Silver metal bottom shell
P11	Off white plastic socket
P12	Silver metal sheet
P13	Off white plastic socket
P14	Silver metal cover
P15	Silver metal cover
P16	Black plastic socket
P17	Off white plastic socket
P18	Grey adhesive
P19	Black plastic slot
P20	Silver metal pins
P21	Silver Spring
P22	Silver metal shell
P23	Silver metal socket housing
P24	Off white plastic socket
P25	Off white plastic socket
P26	Gray metal electronic components
P27	Soldering tin
P28	Black electronic components
P29	Black electronic components
P30	Gold metal pins
P31	Black plastic adhesive
P32	Black plastic block
P33	Silver metal pins
P34	Black gold PCB board
P35	Black plastic shell
P36	Silver aluminum shell cover

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P37	Soldering tin
P38	Black plastic border
P39	Transparent film with black cardboard
P40	Copper wire coil
P41	Silver magnet
P42	Silver metal bottom shell
P43	Silver aluminum shell cover
P44	Red plastic wire cover
P45	Black plastic wire cover
P46	Soldering tin
P47	Black flat cable
P48	Black plastic shell
P49	Silver metal sheet
P50	Gray plastic body base

1.RoHS Directive 2011/65/EU and its amending Directive (EU)2015/863 & Directive (EU)2017/2102

ROHS Restricted Substances	Limit(w/w)
Lead(Pb)	0.1%
Cadmium(Cd)	0.01%
Mercury(Hg)	0.1%
Hexavalent Chromium(Cr VI)	0.1%
Polybromobiphenyls (PBBs)	0.1%
Polybromodiphenyl ethers (PBDEs)	0.1%
Di-(2-ethylhexyl) phthalate(DEHP)	0.1%
Benzylbutyl phthalate(BBP)	0.1%
Dibutyl phthalate(DBP)	0.1%
Diisobutyl phthalate(DIBP)	0.1%

1.Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content –RoHS Directive 2011/65/EU and its amending Directive (EU)2015/863 & Directive (EU)2017/2102

Method(s) Used: Please refer to Annex B

PRELIMINARY SCREENING ASSESSMENT

Part No.	Result(s)(mg/kg)				
	Lead	Cadmium	Mercury	Chromium	Bromine
P1	BL	BL	BL	BL	BL
P2	BL	BL	BL	BL	BL
P3	BL	BL	BL	BL	BL
P4	BL	BL	BL	BL	BL

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P5	BL	BL	BL	BL	BL
P6	BL	BL	BL	BL	BL
P7	BL	BL	BL	BL	BL
P8	BL	BL	BL	BL	BL
P9	BL	BL	BL	BL	BL
P10	BL	BL	BL	BL	NA
P11	BL	BL	BL	BL	BL
P12	BL	BL	BL	X	NA
P13	BL	BL	BL	BL	X
P14	BL	BL	BL	X	NA
P15	BL	BL	BL	X	NA
P16	BL	BL	BL	BL	BL
P17	BL	BL	BL	BL	BL
P18	BL	BL	BL	BL	BL
P19	BL	BL	BL	BL	BL
P20	BL	BL	BL	BL	NA
P21	BL	BL	BL	BL	NA
P22	BL	BL	BL	X	NA
P23	BL	BL	BL	X	NA
P24	BL	BL	BL	BL	BL
P25	BL	BL	BL	BL	BL
P26	BL	BL	BL	BL	NA
P27	BL	BL	BL	BL	NA
P28	BL	BL	BL	BL	BL
P29	BL	BL	BL	BL	BL
P30	BL	BL	BL	BL	NA
P31	BL	BL	BL	BL	BL
P32	BL	BL	BL	BL	BL
P33	BL	BL	BL	BL	NA
P34	BL	BL	BL	BL	X
P35	BL	BL	BL	BL	BL
P36	BL	BL	BL	X	NA
P37	BL	BL	BL	BL	NA
P38	BL	BL	BL	BL	BL
P39	BL	BL	BL	BL	BL
P40	BL	BL	BL	BL	NA
P41	BL	BL	BL	BL	NA
P42	BL	BL	BL	BL	NA

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P43	BL	BL	BL	X	NA
P44	BL	BL	BL	BL	BL
P45	BL	BL	BL	BL	BL
P46	BL	BL	BL	BL	NA
P47	BL	BL	BL	BL	BL
P48	BL	BL	BL	BL	BL
P49	BL	BL	BL	X	NA
P50	BL	BL	BL	BL	BL

Note(s):

- 1.mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- 2.BL=Below limit; OL=Over limit; NA=Not applicable; X=further chemical testing needed
- 3.APPENDIX A for interpretation of EDXRF results(StandardIEC62321-3-1)

APPENDIX A

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note(s): Results was obtained by EDXRF for primary screening. According the APPENDIX A below, further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GCMSD (for PBBs, PBDEs) have to be performed, if the XRF results is in the range defined as inconclusive (X). Further chemical testing is also proposed when results are over limit (OL) in order to have a numeral result to compare to the limits set by the Directive 2011/65/EU.



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CHEMICAL TEST

Part No.	Test item	Result	Limit	Conclusion
P12	Chromium VI(Cr VI)	Negative	Negative	Pass
P14	Chromium VI(Cr VI)	Negative	Negative	Pass
P15	Chromium VI(Cr VI)	Negative	Negative	Pass
P22	Chromium VI(Cr VI)	Negative	Negative	Pass
P23	Chromium VI(Cr VI)	Negative	Negative	Pass
P36	Chromium VI(Cr VI)	Negative	Negative	Pass
P43	Chromium VI(Cr VI)	Negative	Negative	Pass
P49	Chromium VI(Cr VI)	Negative	Negative	Pass

Note:

1. Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).

Part No.	Test item	Unit	MDL	Result	Limit	Conclusion
P13	Polybromobiphenyls (PBBs)	mg/kg	50	N.D.	1000	Pass
	Polybromodiphenyl ethers (PBDEs)	mg/kg	50	N.D.	1000	Pass
P34	Polybromobiphenyls (PBBs)	mg/kg	50	N.D.	1000	Pass
	Polybromodiphenyl ethers (PBDEs)	mg/kg	50	N.D.	1000	Pass

Note:

1. MDL=Method detection limit
2. mg/kg=milligram per kilogram=ppm
3. N.D.=Not detected(<MDL)

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APPENDIX B

List of Analytes and their Corresponding Test Methods [European Council Directive 2011/65/EU] :		
No.	Name of Analytes	Test Method(s)
1	Lead(Pb), mercury(Hg), cadmium(Cd), total chromium(Cr) and total bromine(Br) using X-ray fluorescence spectrometry	With reference to IEC 62321-3-1:2013
2	Lead (Pb)	With reference to IEC 62321-5:2013
3	Cadmium (Cd)	
4	Mercury (Hg)	With reference to IEC 62321-4:2013/AMD1:2017
5	Chromium VI (Cr VI)	Metal :With reference to IEC 62321-7-1:2015 Polymers & Electronics :With reference to IEC 62321-7-2:2017
6	<ul style="list-style-type: none"> Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB) 	With reference to IEC 62321-6:2015
7	<ul style="list-style-type: none"> Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE) 	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	



1.2.Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Diisobutyl phthalate(DIBP) Content- RoHS Directive 2011/65/EU Annex II amending Annex(EU)2015/863 and amending Annex (EU)2017/2102

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Items	Unit	Result	MDL	Limit
		<u>P2+P4+P5+P6+P7+P8+P9+P11+P13+P16+P17</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Test Items	Unit	Result	MDL	Limit
		<u>P19+P24+P25+P32+P34+P35+P38+P48+P50</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Test Items	Unit	Result	MDL	Limit
		<u>P39</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Test Items	Unit	Result	MDL	Limit
		<u>P47</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

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Test Items	Unit	Result	MDL	Limit
		<u>P44+P45</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Note:

1. mg/kg = milligram per kilogram= ppm.
2. MDL = Method Detection Limit.
3. N.D. = Not Detected (< MDL)
4. "+"=mixed test, data users should consider the risk of "pass" results of mixed sample

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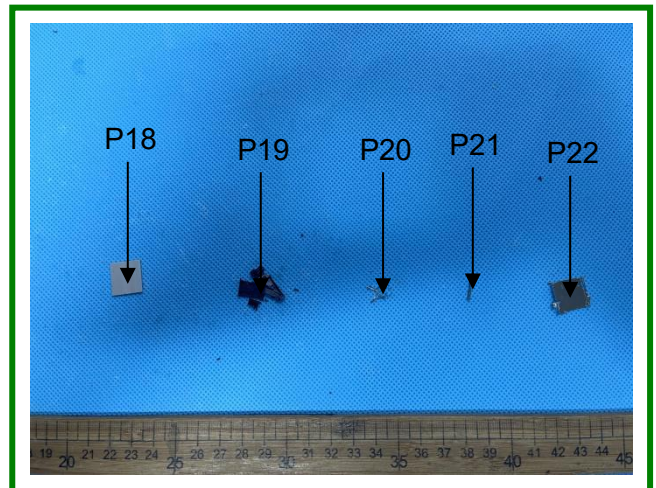
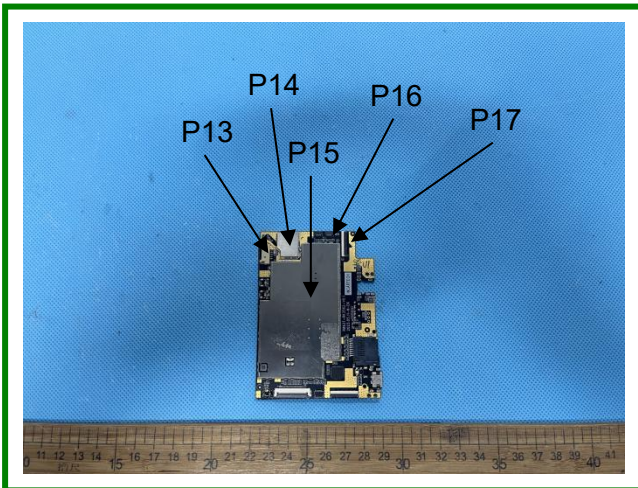
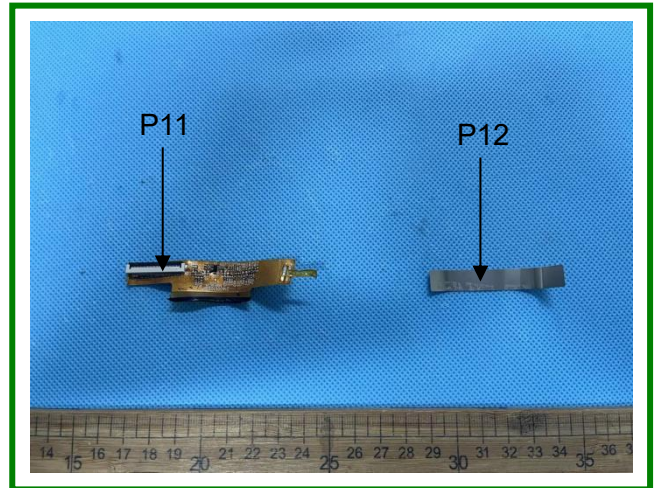
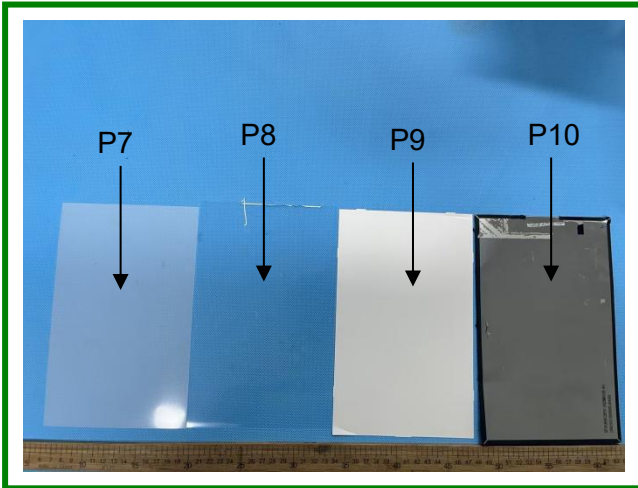
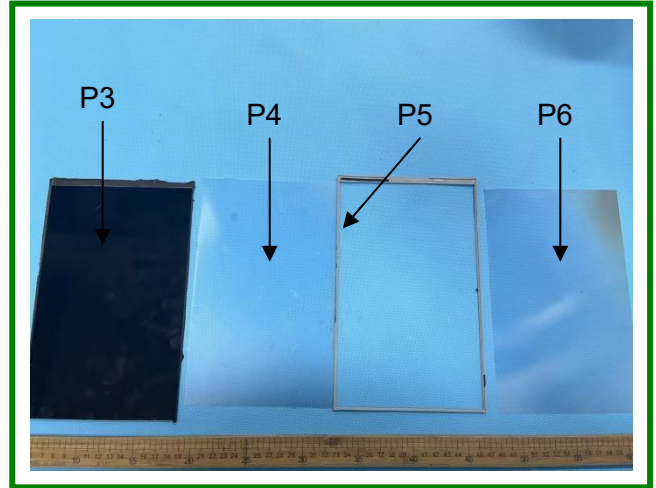
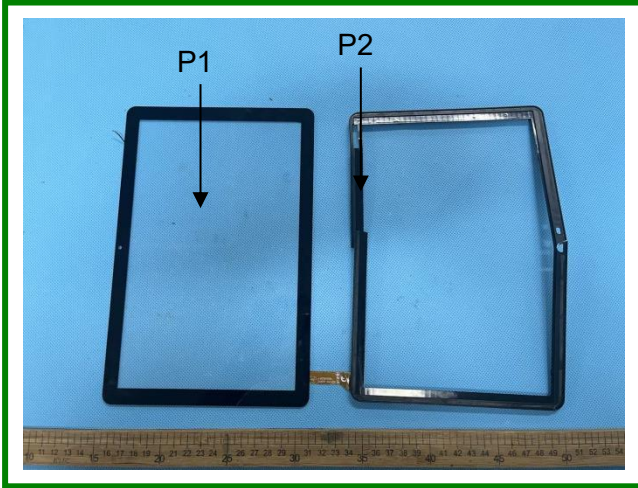
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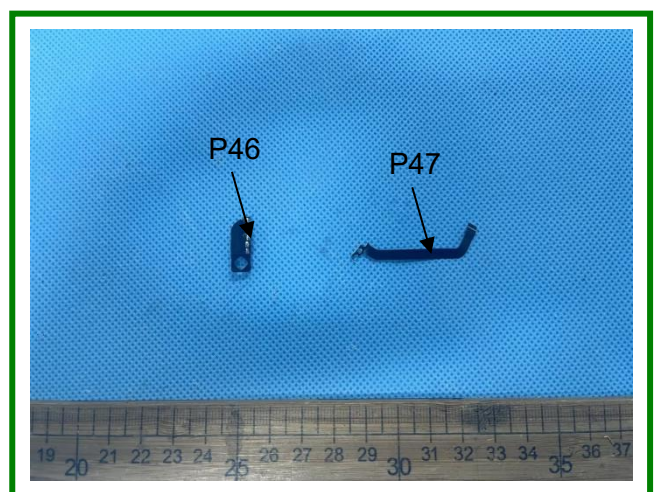
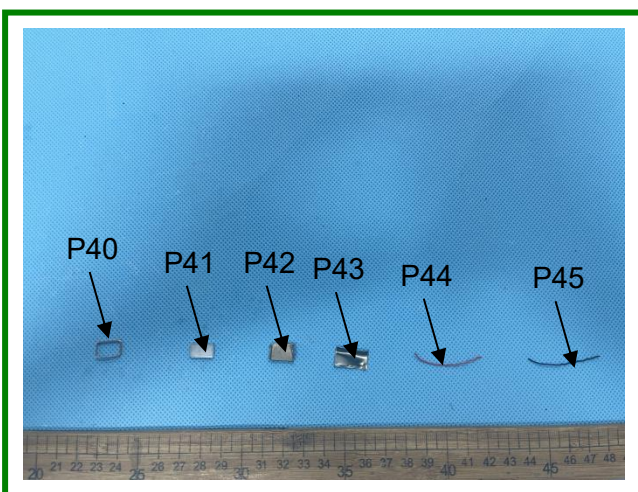
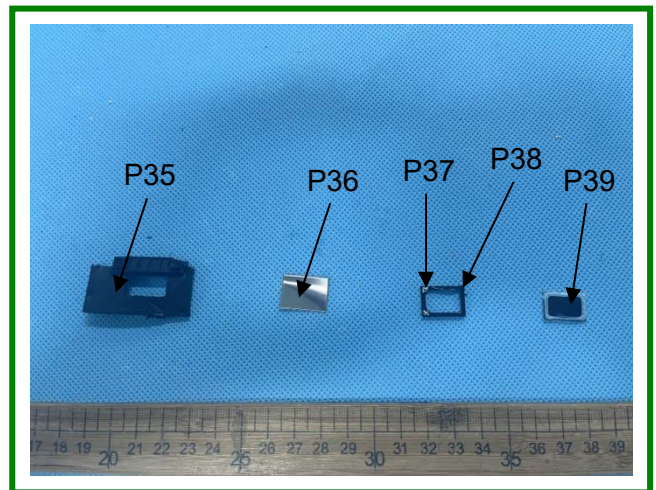
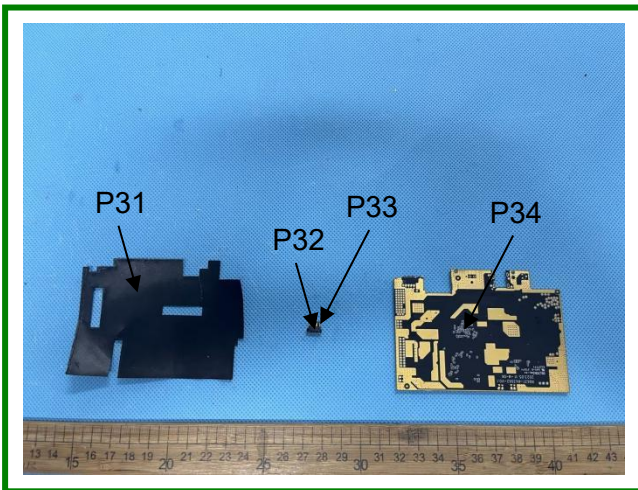
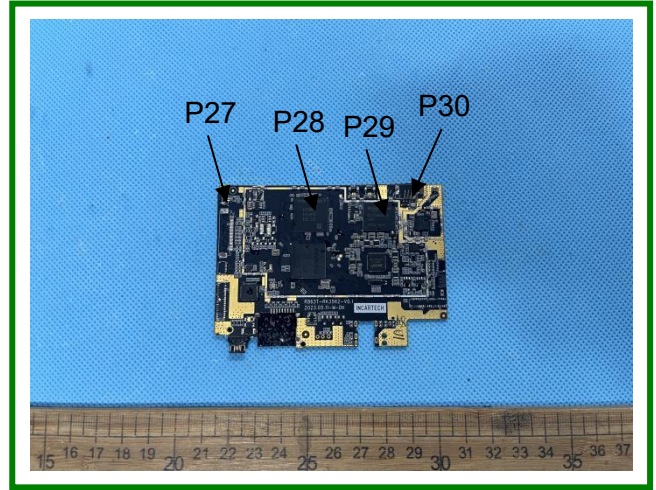
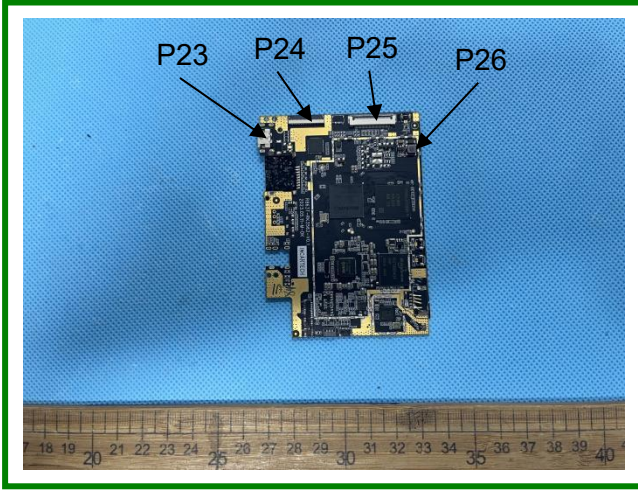
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