



# TEST REPORT

**Applicant** : Seeed Technology Co., Ltd.  
**Product Name** : Seeed Studio reComputer  
**Model Name** : J2021  
**Brand Name** : seeed studio  
**Test Request** : With reference to RoHS Directive 2015/863/EU amending 2011/65/EU  
**Receipt Date** : 2022-08-18  
**Test Date** : 2022-08-19 to 2022-09-08  
**Issue Date** : 2022-09-15  
**Conclusion** : Based on the performed tests on submitted sample(s), 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), Butyl benzyl 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.

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Change History		
Version	Date	Reason for Change
1.0	2022-09-15	First edition



# 1. Applicant Information

**Applicant** : Seeed Technology Co., Ltd.

**Applicant Address** : 9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C

**Manufacturer** : Seeed Technology Co., Ltd.

**Manufacturer Address** : 9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C

# 2. Test Methods

- (1) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test items on restricted substances Cr(VI).
- (2) Results are obtained by EDXRF for primary screening, and further 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	Polymers	Metals	Composite Materials
Cd	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 70 - 3\sigma < D < 130 + 3\sigma \leq F$	$P \leq 50 - 3\sigma < D < 150 + 3\sigma \leq F$
Pb	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Hg	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 700 - 3\sigma < D < 1300 + 3\sigma \leq F$	$P \leq 500 - 3\sigma < D < 1500 + 3\sigma \leq F$
Br	$P \leq 300 - 3\sigma < D$	---	$P \leq 250 - 3\sigma < D$
Cr	$P \leq 700 - 3\sigma < D$	$P \leq 700 - 3\sigma < D$	$P \leq 500 - 3\sigma < D$

- (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 Test

Unit and MDL in wet chemical test.

Test Item	Procedure	Apparatus	MDL
Hg	IEC 62321-4:2013+AMD1:2017	ICP-OES	10 mg/kg
Cd & Pb	IEC 62321-5:2013	AAS or ICP-OES	10 mg/kg
Cr <sup>6+</sup>	IEC 62321-7-2:2017(For Polymer and Electronics)	UV-VIS	10 mg/kg
	IEC 62321-7-1:2015 <sup>▲</sup> (For Plating on Metals)		0.10ug/cm <sup>2</sup>
PBBs	IEC 62321-6:2015	GC-MS	100 mg/kg
PBDEs	IEC 62321-6:2015	GC-MS	100 mg/kg
DEHP	IEC 62321-8:2017	GC-MS	100 mg/kg
BBP	IEC 62321-8:2017	GC-MS	100 mg/kg
DBP	IEC 62321-8:2017	GC-MS	100 mg/kg
DIBP	IEC 62321-8:2017	GC-MS	100 mg/kg

(c) The MDL for single compound of PBBs and PBDEs is 100 mg/kg.

(d) MDL of Cr(VI) for polymer and composite sample is 10 mg/kg.

(e) MDL of Cr(VI) for metal sample is 0.10ug/cm<sup>2</sup>.

(f) mg/kg=ppm, N.D. = Not Detected (< MDL), "----"= Not Conducted.

(g)<sup>▲</sup>= a. The sample is negative for Cr<sup>6+</sup> - the Cr<sup>6+</sup> concentration is below the limit 0.10ug/cm<sup>2</sup>. The coating is considered a non-Cr<sup>6+</sup> based coating.

b. The sample is positive for Cr<sup>6+</sup> - the Cr<sup>6+</sup> concentration is greater than 0.13ug/cm<sup>2</sup>. The sample coating is considered to contain Cr<sup>6+</sup>.

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

(h) When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals .

(4) The maximum permissible limit is quoted from the document (EU)2015/863 amending ROHS Directive 2011/65/EU Annex II:

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



### 3. Test Results and Sample Description

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

Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-1	Black Plastic Cover	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-2	Silvery Metal Sheet	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					
A-3	White Glue	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-4	Silvery Metal Screw	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	Negative		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-5	Silvery Metal Baffle	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-6	Gray Heat Conducting Silicone	Composite	Pb	P	N.D. N.D. N.D. N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-7	Black Metal Shell	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-8	Black Metal Screw	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-9	White Adhesive Sticker	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-10	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	D	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	N.D.		
			PBDEs	---	N.D.		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-11	Black Magnet	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-12	Silvery Metal Ring	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-13	Silvery Metal Rod	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-14	White Plastic Ring	Polymer	Pb	P	N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	N.D.			
			BBP	N.D.			
			DEHP	N.D.			
			DIBP	N.D.			
A-15	Silvery Metal Wire	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-16	Silvery Metal	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted	
			Element	Data				
A-17	Black Glue	Composite	Pb	P	---	Comply	/	
			Cd	P	---			
			Hg	P	---			
			Cr	D	---			
			Br	D	---			
			Cr <sup>6+</sup>	---	N.D.			
			PBBs	---	N.D.			
			PBDEs	---	N.D.			
			DBP	---	N.D.			
			BBP	---	N.D.			
			DEHP	---	N.D.			
DIBP	---	N.D.						
A-18	Silvery Metal	Metal	Pb	P	---	Negative	Comply	/
			Cd	P	---			
			Hg	P	---			
			Cr	D	---			
			Br	---	---			
			Cr <sup>6+</sup>	---	---			
			PBBs	---	---			
			PBDEs	---	---			
			DBP	---	---			
			BBP	---	---			
			DEHP	---	---			
DIBP	---	---						
A-19	Copper-Colored Metal Coil	Metal	Pb	P	---	Comply	/	
			Cd	P	---			
			Hg	P	---			
			Cr	P	---			
			Br	---	---			
			Cr <sup>6+</sup>	---	---			
			PBBs	---	---			
			PBDEs	---	---			
			DBP	---	---			
			BBP	---	---			
			DEHP	---	---			
DIBP	---	---						
A-20	Green PCB	Composite	Pb	P	---	Comply	/	
			Cd	P	---			
			Hg	P	---			
			Cr	P	---			
			Br	P	---			
			Cr <sup>6+</sup>	---	---			
			PBBs	---	---			
			PBDEs	---	---			
			DBP	---	N.D.			
			BBP	---	N.D.			
			DEHP	---	N.D.			
DIBP	---	N.D.						



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-21	Silvery Solder	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-22	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-23	Black Diode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-24	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-25	White Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-26	Silvery Metal Head	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-27	Black Plastic Wire Jacket	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-28	Red Plastic Wire Jacket	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-29	Yellow Plastic Wire Jacket	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-30	Blue Plastic Wire Jacket	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-31	Silvery Metal Core	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					
A-32	Black Adhesive Sticker	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-33	Black Adhesive Sticker With White Lettering	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
		DIBP	---	N.D.			
A-34	Black PCB	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
		DIBP	---	N.D.			
A-35	Silvery Solder	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
		DIBP	---	---			
A-36	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
		DIBP	---	N.D.			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-37	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-38	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-39	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-40	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-41	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-42	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-43	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-44	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-45	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-46	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-47	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-48	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-49	Silvery Crystal Oscillator	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-50	Silvery IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-51	Green PCB	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-52	Gray Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-53	Black Triode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-54	Black Triode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-55	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-56	Gray Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-57	Silvery Crystal Oscillator	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-58	Black Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-59	Gray Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-60	Black Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-61	Brown Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-62	Black Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-63	Silvery Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-64	Brown Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-65	Silvery Metal Screw	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-66	Black PCB	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	D	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	N.D.		
			PBDEs	---	N.D.		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-67	Silvery Solder	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-68	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-69	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-70	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-71	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-72	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-73	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-74	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-75	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-76	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-77	Black IC	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-78	Black Diode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-79	Black Diode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-80	Gray Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-81	Silvery Crystal Oscillator	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-82	Black Triode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-83	Black Diode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-84	Black Diode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-85	Black Triode	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-86	Black Resistor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-87	Brown Inductance	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-88	Brown Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-89	Brown Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-90	Grey Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-91	White Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-92	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-93	Silvery Metal	Metal	Pb	D	#2.13x10 <sup>4</sup>	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-94	White Plastic	Polymer	Pb	P	N.D. N.D. N.D. N.D. N.D. N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	D			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-95	Black Plastic	Polymer	Pb	P	N.D. N.D. N.D. N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-96	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-97	Brown Grey Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-98	Golden Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-99	Grey Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-100	Golden Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-101	Silvery Metal	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-102	Grey Plastic	Polymer	Pb	P	N.D. N.D. N.D. N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-103	Golden Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-104	Black Plastic	Polymer	Pb	P	N.D. N.D. N.D. N.D. N.D. N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	D			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-105	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-106	Type-C Port Silvery Metal Shell	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-107	Type-C Port Black Plastic	Polymer	Pb	P	N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	N.D.			
			BBP	N.D.			
			DEHP	N.D.			
			DIBP	N.D.			
A-108	Type-C Port Golden Metal Pin	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-109	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-110	Silvery Metal With Golden Plating	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-111	Silvery Metal	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-112	Silvery Metal Shell	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-113	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-114	Silvery Metal	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-115	Blue Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-116	Silvery Metal Pin With Golden Coating	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-117	Silvery Metal Shell	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-118	Silvery Solder	Metal	Pb	P	Negative	Comply	/
			Cd	P			
			Hg	P			
			Cr	D			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-119	Black Plastic	Polymer	Pb	P	N.D.	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	D			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-120	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-121	Green LED	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-122	Silvery Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-123	Yellow LED	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-124	Golden Metal Pin	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-125	Green PCB	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	D	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	N.D.		
			PBDEs	---	N.D.		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-126	Silvery Solder	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-127	Black Resistor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-128	Brown Chip Capacitor	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-129	Black Plastic Wire Jacket	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-130	Grey Ceramic	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-131	Black Glue	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-132	Copper-Colored Metal Coil	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-133	Green Metal Coil	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-134	Blue Metal Coil	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-135	Red Metal Coil	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-136	Silvery Metal Shell	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



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Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-137	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-138	Silvery Metal Pin With Golden Coating	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-139	Silvery Metal	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-140	Silvery Metal Shell	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-141	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	D	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	N.D.		
			PBDEs	---	N.D.		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
DIBP	---	N.D.					
A-142	Silvery Metal Pin With Golden Coating	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					
A-143	Silvery Metal Rod	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					
A-144	Silvery Metal Ring	Metal	Pb	P	---	Negative	Comply
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
DIBP	---	---					



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-145	Black Cushion	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-146	White Glue	Composite	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	D	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	N.D.		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-147	Silvery Metal Screw	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		
A-148	Golden Metal	Metal	Pb	F	#2.30×10 <sup>4</sup>	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		



Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-149	Silvery Magnet	Metal	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			
A-150	Black Plastic	Polymer	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	N.D.			
			BBP	N.D.			
			DEHP	N.D.			
			DIBP	N.D.			
A-151	Black Soft Plastic Plug	Polymer	Pb	P	---	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	N.D.			
			BBP	N.D.			
			DEHP	N.D.			
			DIBP	N.D.			
A-152	Golden Metal Nut	Metal	Pb	F	#2.18×10 <sup>4</sup>	Comply	/
			Cd	P			
			Hg	P			
			Cr	P			
			Br	---			
			Cr <sup>6+</sup>	---			
			PBBs	---			
			PBDEs	---			
			DBP	---			
			BBP	---			
			DEHP	---			
			DIBP	---			

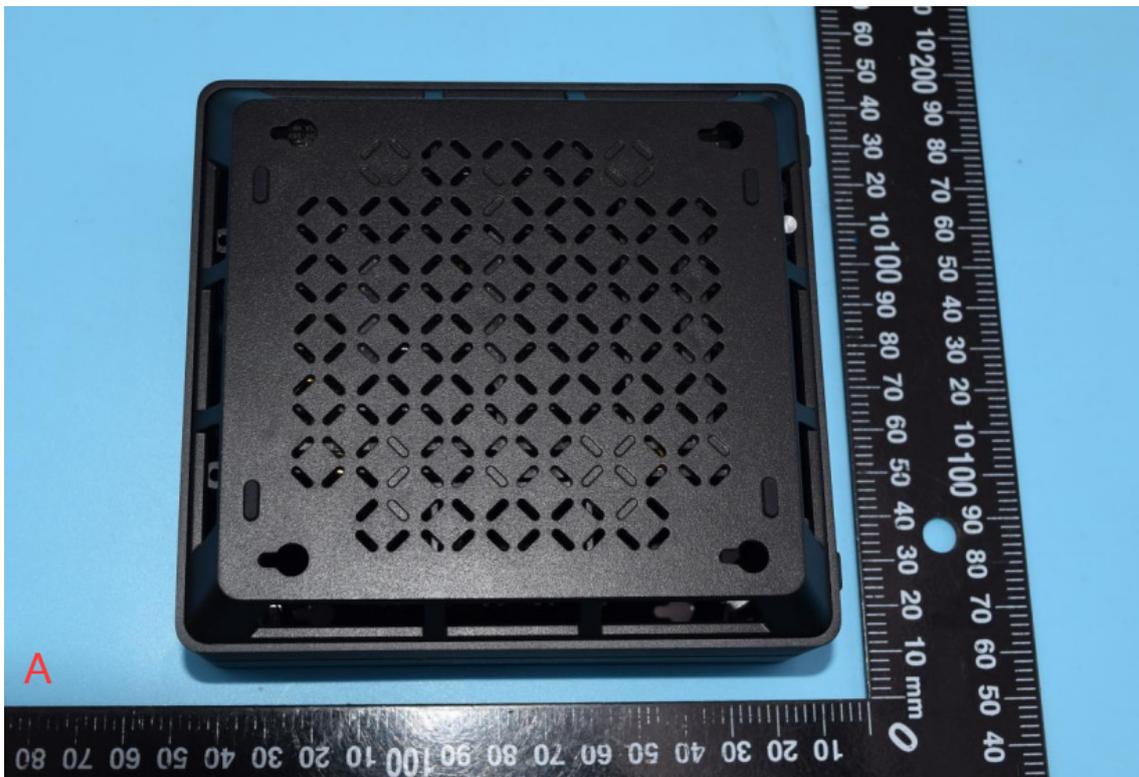
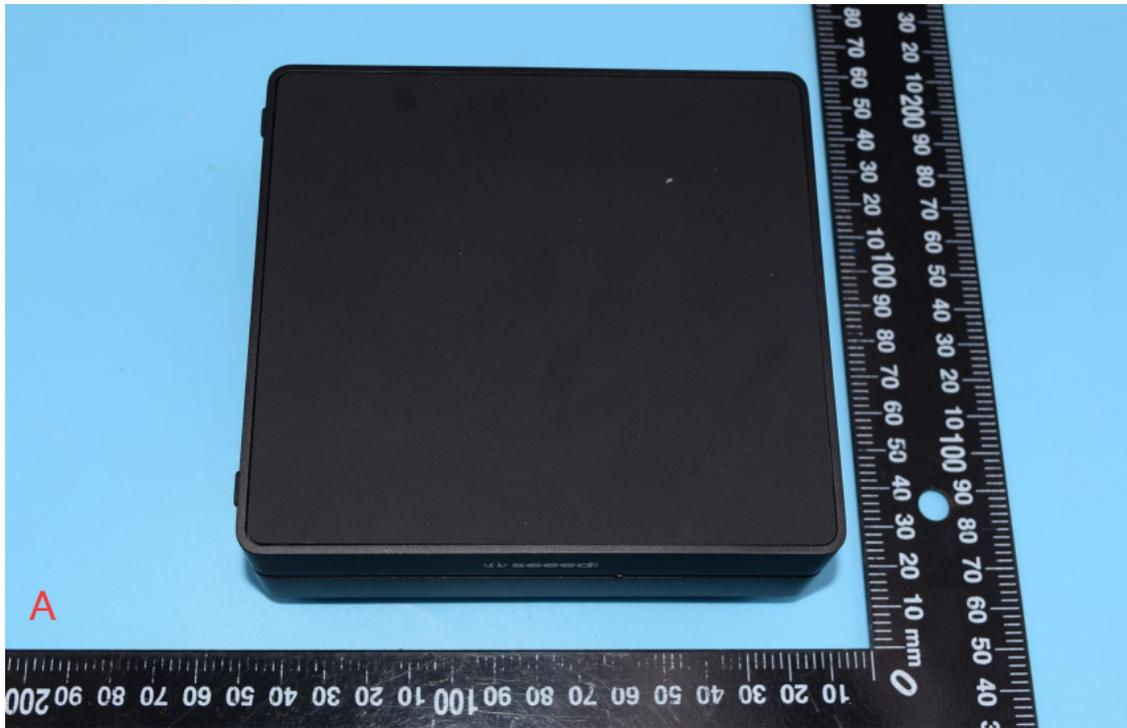


Part No.	Description	Material	X-ray Screening		Results of Chemical Test	Conclusion on RoHS EU	Sample Resubmitted
			Element	Data			
A-153	Black Plastic Base	Polymer	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	P	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	N.D.		
			BBP	---	N.D.		
			DEHP	---	N.D.		
			DIBP	---	N.D.		
A-154	Black Metal Frame	Metal	Pb	P	---	Comply	/
			Cd	P	---		
			Hg	P	---		
			Cr	P	---		
			Br	---	---		
			Cr <sup>6+</sup>	---	---		
			PBBs	---	---		
			PBDEs	---	---		
			DBP	---	---		
			BBP	---	---		
			DEHP	---	---		
			DIBP	---	---		

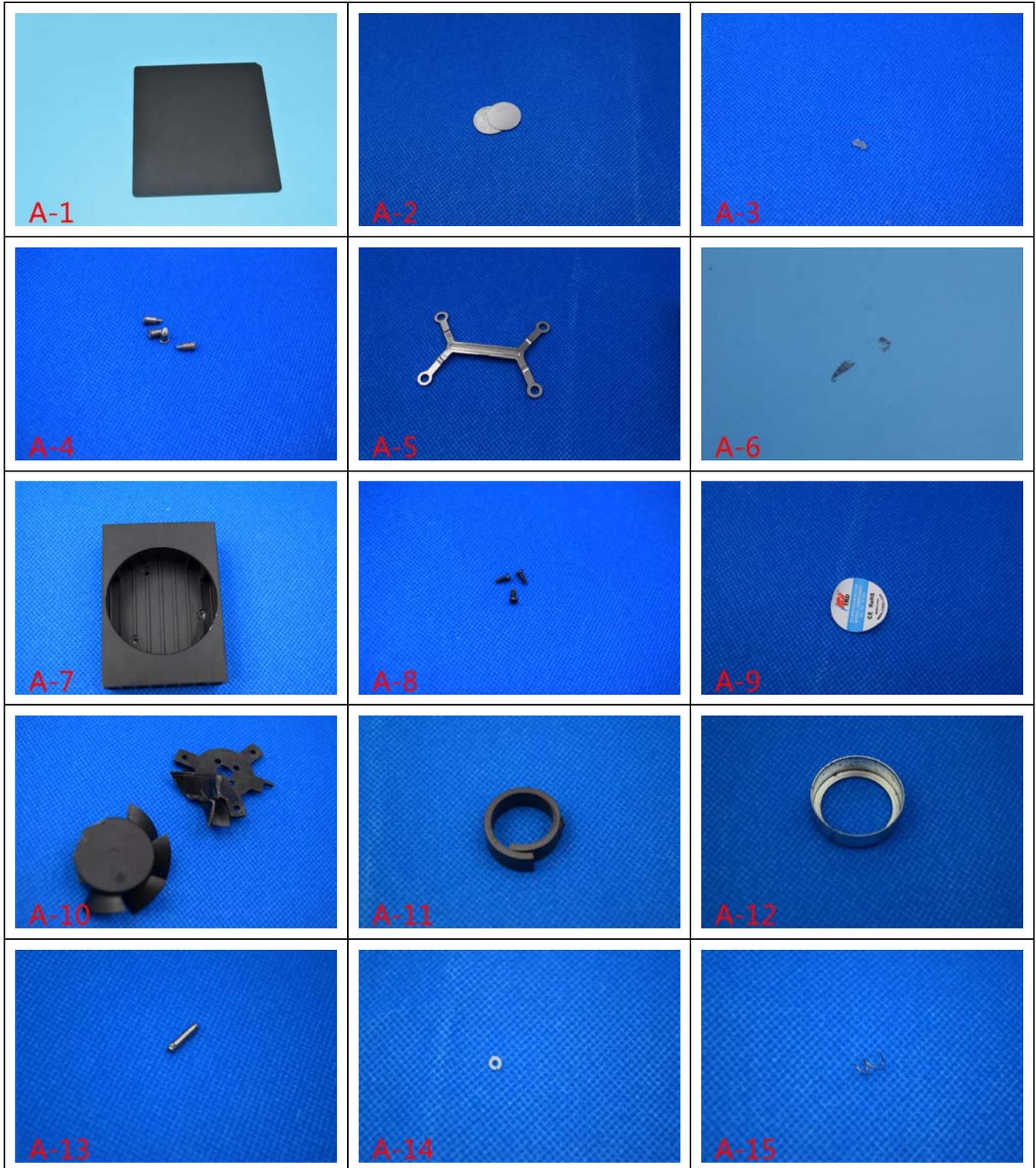
remark:

(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).

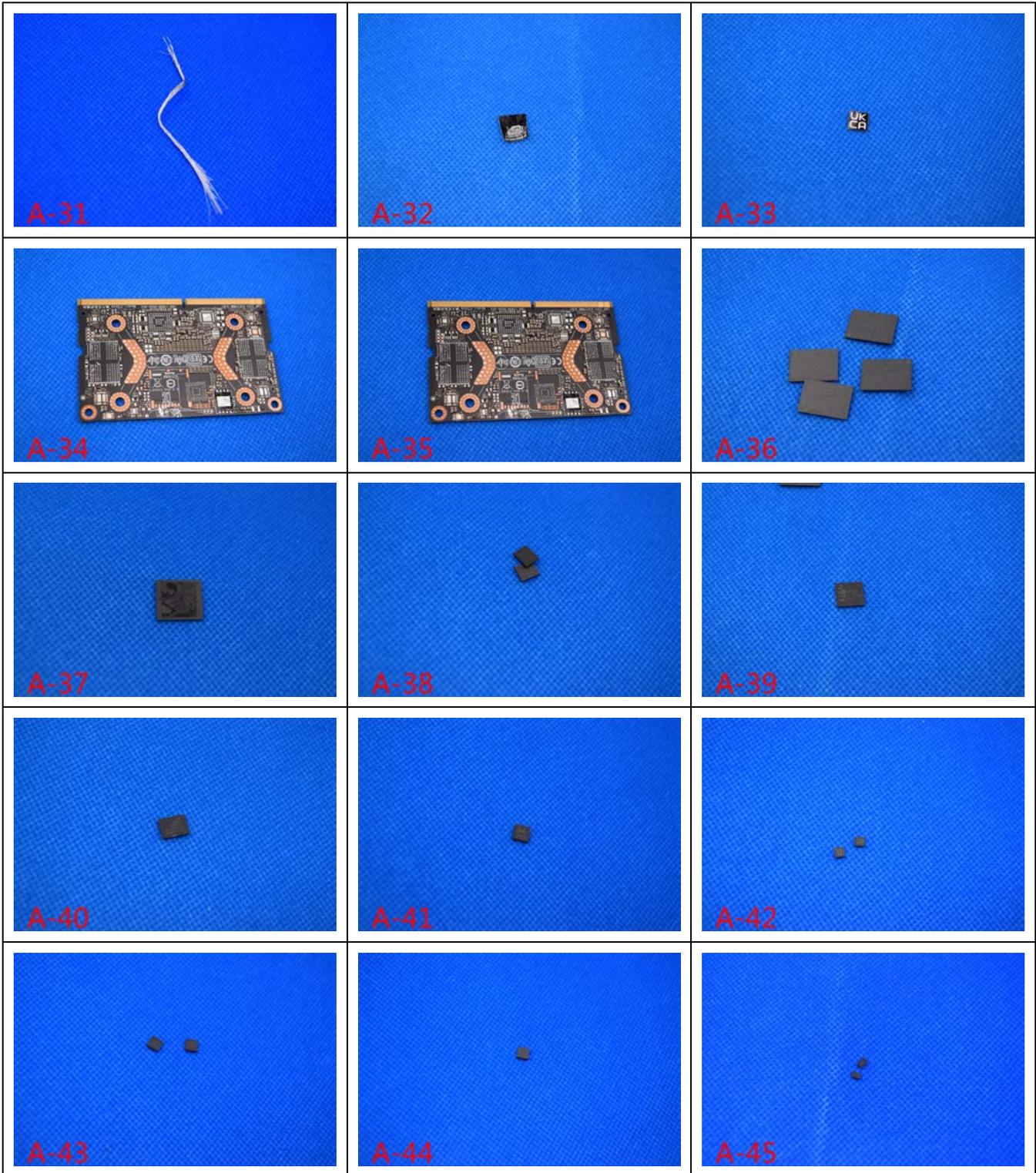
## Annex A Photo of Sample

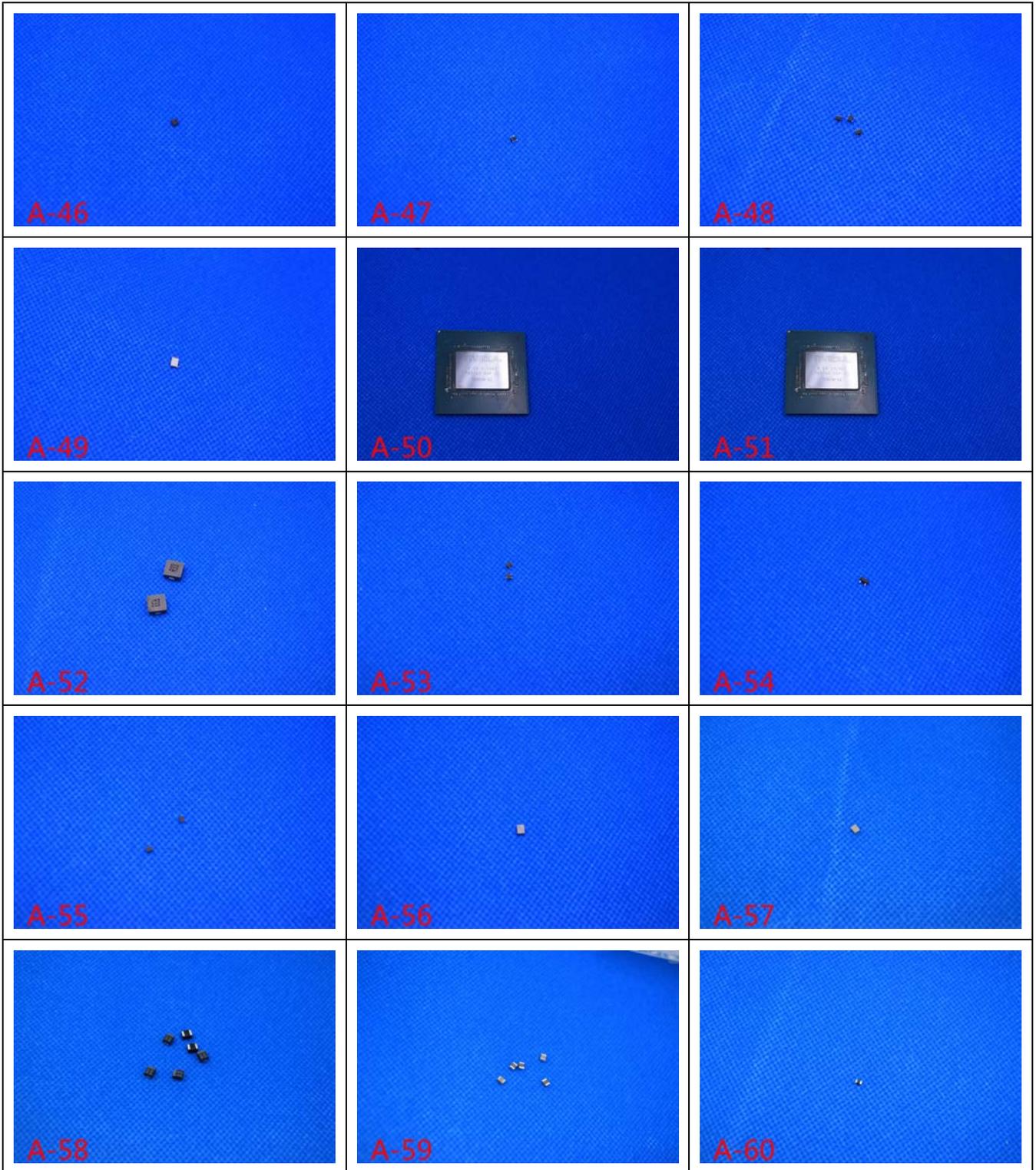


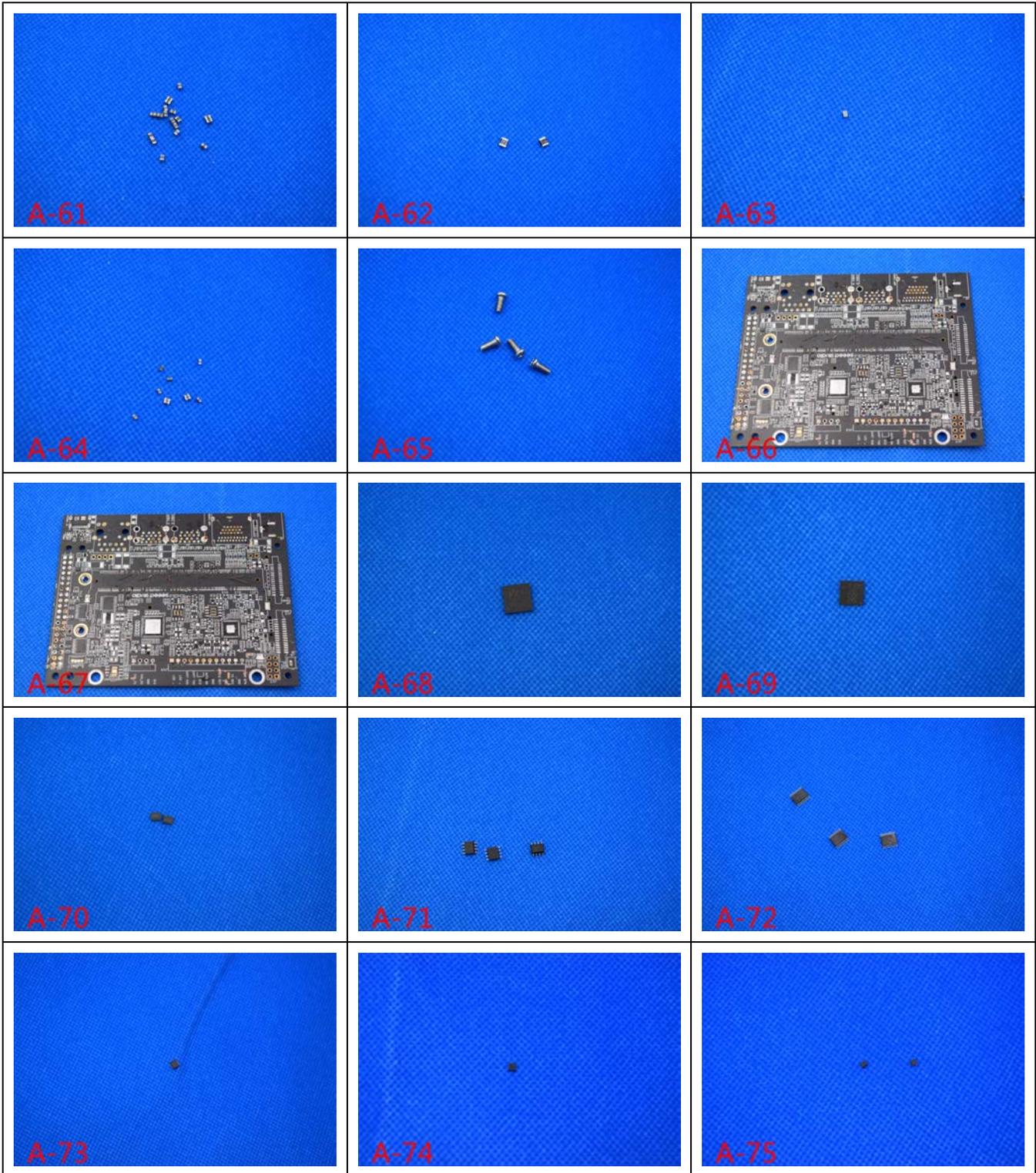
## Annex B Photo of Test Part

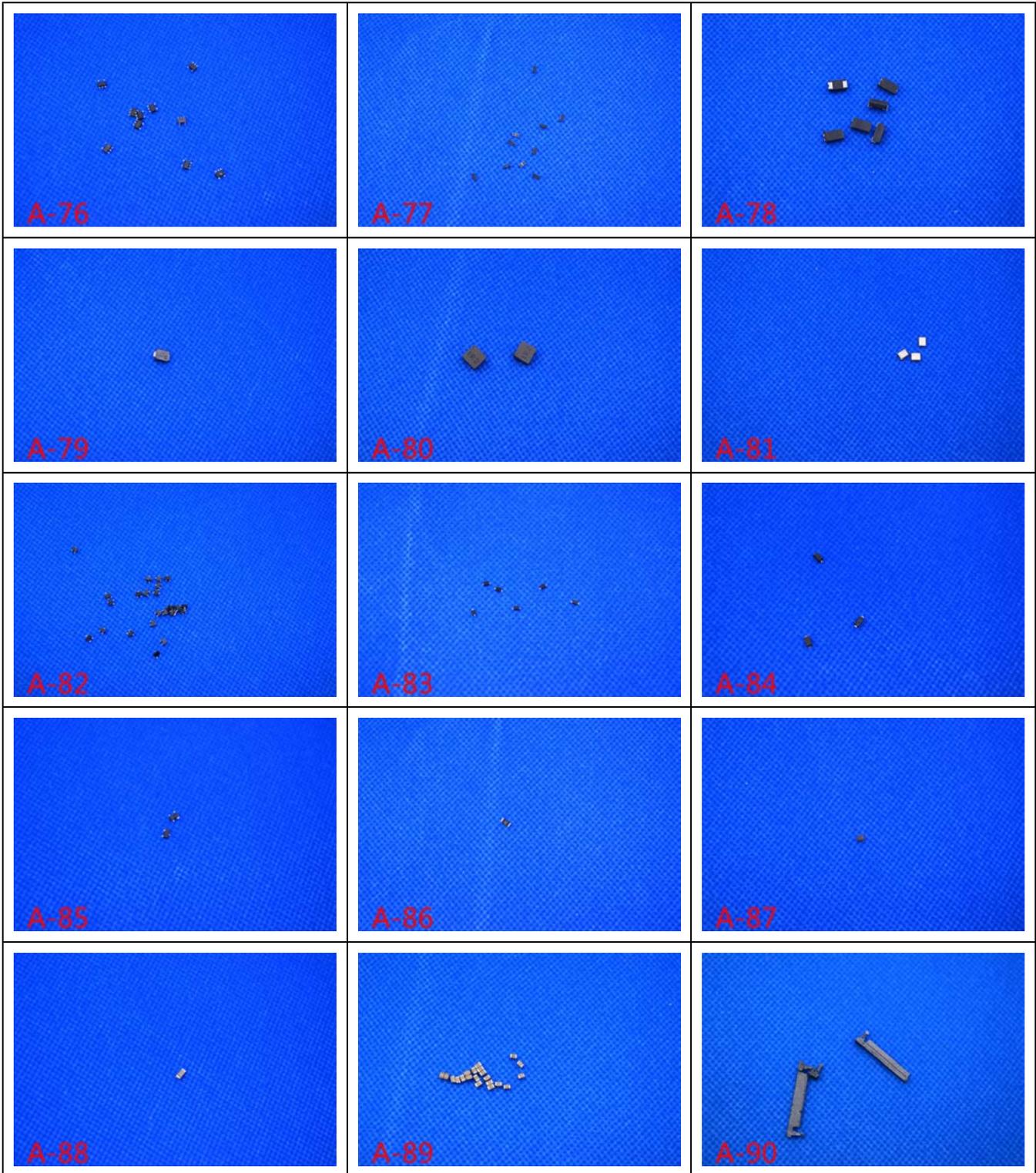




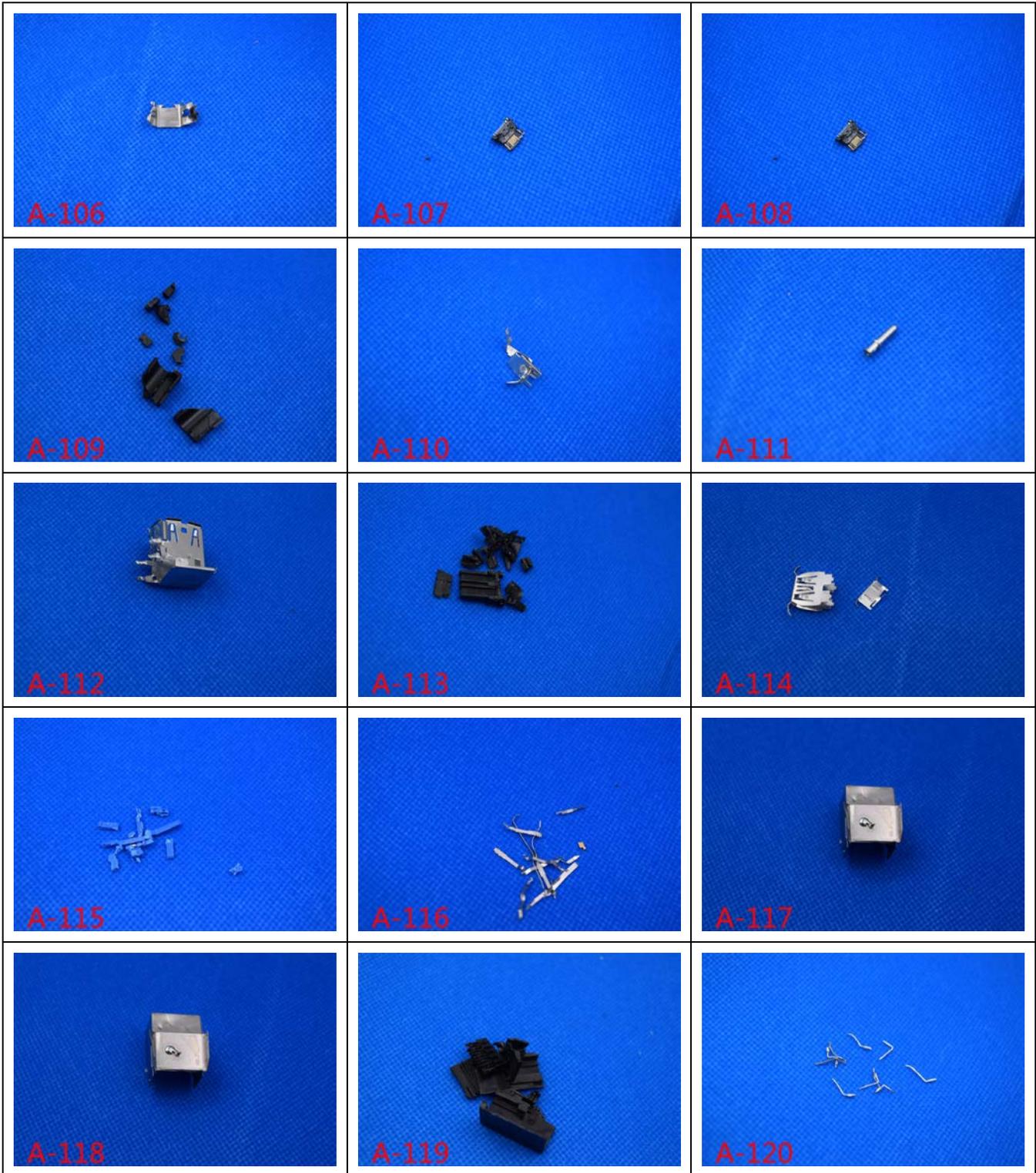


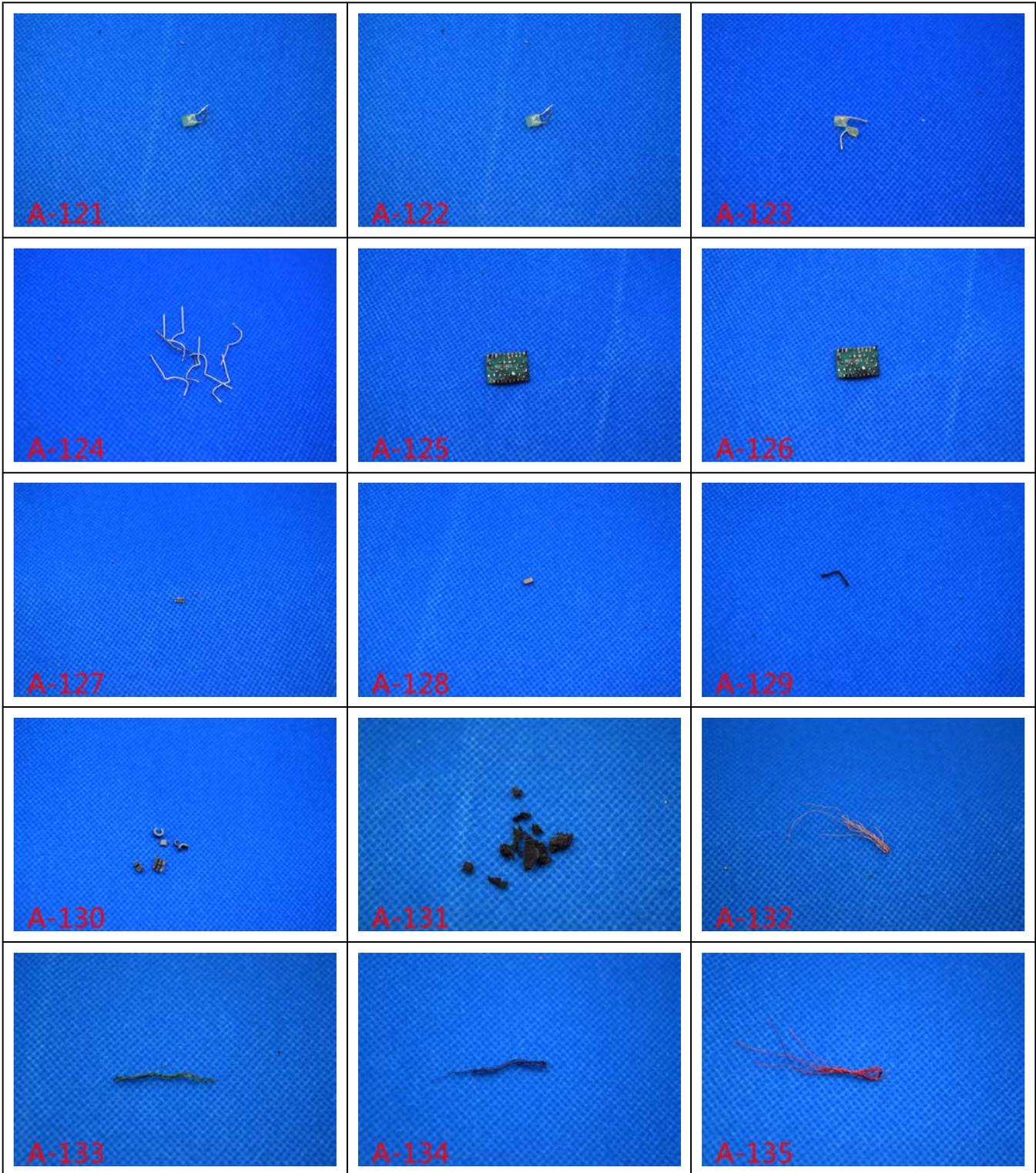




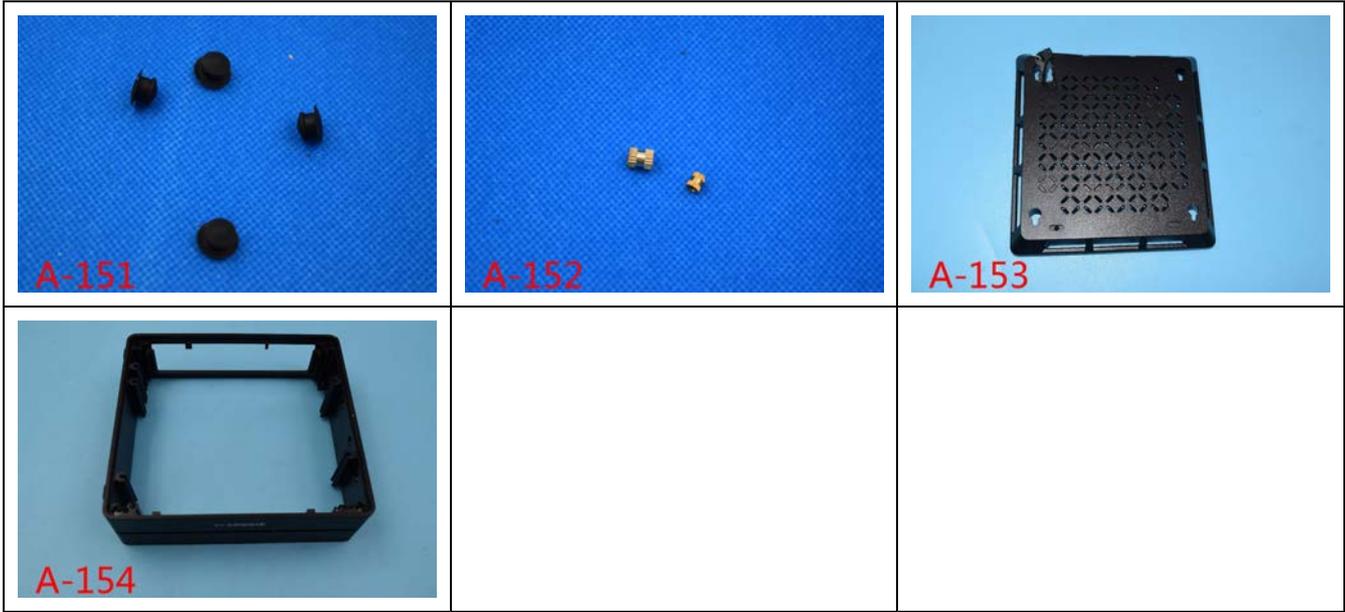














## Annex C General Information

### 1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Accredited Testing Laboratory:	CNAS No. L3572 (Shenzhen Morlab Communications Technology Co., Ltd.)

### 1.2 Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

### 1.3 Test Equipment Utilized

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	X-Ray Fluorescence Spectroscopy(XRF)	100180017-00 406A	EDX-1800B	Skyray	2022.03.01	2023.02.28
2	X-Ray Fluorescence Spectroscopy(XRF)	100180017-01 151A	EDX-1800B	Skyray	2022.07.04	2023.07.03
3	Gas Chromatography-Mass Spectrometer (GC-MS)	CN10617090	6890-5975I	Agilent	2021.03.25	2023.03.24
4	Ultraviolet and visible spectrophotometry (UV-Vis)	723S18011	DP-733S	Delp	2022.07.04	2023.07.03
5	Inductive Coupled Plasma Emission Spectrometer (ICP-OES)	IC72DC160825	ICAP7200	Thermo	2021.03.25	2023.03.24
6	Gas Chromatography-Mass Spectrometer (GC-MS)	C70504400059 SA	QP2010 PLus	SHIMADZU	2021.03.25	2023.03.24
7	Gas Chromatography-Mass Spectrometer (GC-MS)	021745700818 SA	QP2020 NX	SHIMADZU	2021.10.20	2023.10.19

\*\*\*\*\* END OF REPORT \*\*\*\*\*