

# TEST REPORT

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

Product Name : BeaglePlay

Model Name : BeaglePlay

Brand Name : Beagleboard.org

**Test Request**: As specified by client, to screen 233 substances in the

Candidate List of Substances of Very High Concern

(SVHC) for authorization published by European Chemicals Agency (ECHA) regarding Regulation (EC) No 1907/2006

concerning the REACH in the submitted sample(s).

**Receipt Date** : 2023-01-04

**Test Date** : 2023-01-04 to 2023-02-22

**Issue Date** : 2023-02-22

#### **Summary:**

According to the ruling of the court of Justice of the European Union on the definition an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are>0.1%(w/w) (see Remark) in the submitted sample. See A003(A-28).

Edited by : Dai jian

Deng Baijian (Rapporteur)

Kenny Li (Supervisor

**NOTE:** This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., 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 validation and information confirmed at our website.



Shenzhen Morlab Communications Technology Co., Ltd. FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road, Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555 Http://www.morlab.cn Fax: 86-755-36698525 E-mail: service@morlab.cn





# **DIRECTORY**

1. Applicant Information	5
2. Component Description	5
3. Test Results ······	10
4. Annex Full List Tested SVHC ······	11
5. Photo of Sample ······	20
Annex A General Information	28

Change History			
Version Date Reason for Change			
1.0	2023-02-22	First edition	





## **Remark:**

(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: https://echa.europa.eu/it/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, If a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and(b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w)

Article 33 of Regulation (EC) No 1907/2006 requires supplier of article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

(3) Concerning material(s):

Test results in the report are based on the tested sample . This report to testing result of tested sample submitted as homogenous materials. In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

- (4) Concerning substance and preparation:
  - If a SVHC is found over 0.1%(w/w) and/or the specific concentration limit which is set in Regulation (EC) No. 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No. 1907/2006.
- (5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.





- (6) The limit of 0.1%(w/w) applies to an article. The results were calculated assuming as the submitted sample was an article.
  - However, the results may not be applicable if the intended use of the sample is a substance or mixt ure. According to REACH,
  - definition of an article, substance and mixture are:
  - i. Article An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition
  - ii. Substance A chemical element and its compound in the natural state or obtained by any manuf acturing process
  - iii. Mixture(Previously known as "Preparation") A mixture or solution composed of two or more substances
- (7) When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% Confidence intervals.





# 1. Applicant Information

Applicant : Seeed Technology Co., Ltd

**Applicant Address** : 9F,Building G3,TCL International E city,Zhongshanyuan

Road, Nanshan, Shenzhen, China.

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. Component Description

Part No.	Specimen No.	Sample Description	Group table
1	A001	Non-metal Group	-
2	A002	Metal Group	-
3	A003	Electronic Components	-



Specimen No.	Sample No.	Sample Description
	A-1	Black PCB
	A-3	White Adhesive With Black Lettering
	A-33	Green PCB
	A-40	Black Plastic
	A-42	White Plastic
	A-44	Black Plastic
	A-45	Beige Plastic
	A-47	White Plastic
	A-49	Card Slot Black Plastic
	A-51	Black Plastic
	A-53	Grey Plastic
	A-55	Black Plastic
4004	A-58	White Plastic
A001	A-59	Black Plastic Shell
	A-60	Grey Ceramic
	A-63	Black Plastic
	A-66	Type-C Port Black Plastic
	A-69	White Plastic
	A-72	HDMI Port Black Plastic
	A-78	Black Plastic
	A-80	Black Glue
	A-81	Grey Ceramic
	A-82	Black Plastic Wire Jacket
	A-87	Green PCB
	A-93	Black Plastic
	A-95	Black PCB





Specimen No.	Sample No.	Sample Description
	A-97	Black PCB
1004	A-100	Black Plastic Wire Jacket
A001	A-102	Transparent Plastic Core Of Cable
	A-103	White Plastic
	A-2	Silvery Solder
	A-34	Silvery Solder
	A-39	Silvery Metal Shielding Case
	A-41	Silvery Metal Pin
	A-43	Silvery Metal Pin
	A-46	Silvery Metal Pin
	A-48	Card Slot Silvery Metal
	A-50	Silvery Metal Pin
	A-52	Golden Metal Pin
	A-54	Golden Metal Pin
A002	A-56	Silvery Metal
A002	A-57	Silvery Metal Shrapnel
	A-61	Red Metal Coil
	A-62	Copper-Colored Metal Coil
	A-64	Silvery Metal Pin
	A-65	Type-C Port Silvery Metal Shell
	A-67	Type-C Port Golden Metal Pin
	A-68	Silvery Metal Shell
	A-70	Golden Metal Pin
	A-71	HDMI Port Silvery Metal Shell
	A-73	Silvery Metal Pin With Golden Plating
	A-74	Silvery Metal Shell



Specimen No.	Sample No.	Sample Description
	A-75	Silvery Solder
	A-77	Silvery Metal Pin
	A-79	Golden Metal Pin
	A-83	Copper-Colored Metal Coil
	A-84	Red Metal Coil
	A-85	Blue Metal Coil
	A-86	Green Metal Coil
A002	A-88	Silvery Solder
	A-90	Silvery Metal Pin
	A-92	Silvery Metal Shell
	A-94	Silvery Metal Pin
	A-96	Silvery Solder
	A-98	Silvery Solder
	A-99	Golden Metal Head
	A-101	Silvery Metal Wire
	A-4	Black IC
	A-5	Black IC
	A-6	Black IC
	A-7	Black IC
	A-8	Black IC
A003	A-9	Black IC
	A-10	Black IC
	A-11	Black IC
	A-12	Black IC
	A-13	Black IC
	A-14	Black IC



Specimen No.	Sample No.	Sample Description
	A-15	Black IC
	A-16	Black IC
	A-17	Black IC
	A-18	Black IC
	A-19	Brown IC
	A-20	Golden Crystal Oscillator
	A-21	Silvery Crystal Oscillator
	A-22	Black Resistor
	A-23	Black Diode
	A-24	Black Triode
	A-25	Black Triode
	A-26	Black Inductance
A003	A-27	Brown Chip Capacitor
	A-28	Brown Crystal Oscillator
	A-29	Gray Chip Capacitor
	A-30	Gray Chip Capacitor
	A-31	Brown Chip Capacitor
	A-32	Brown Chip Capacitor
	A-35	Silvery IC
	A-36	Black Chip Capacitor
	A-37	Black IC
	A-38	Silvery Crystal Oscillator
	A-76	Yellow LED
	A-89	Brown Chip Capacitor
	A-91	Transparent LED





## 3. Test Result:

#### Test Result: (Substances in the Candidate List of SVHC)

Pote	atah Subatanas Nama CAS		Concentration (%)	DI (0()
Batch Substance Name		CAS No.	A003(A-28)	RL (%)
XΙΣ	( Lead	7439-92-1	1.28	0.005
-	Other tested SVHC in Candidate List	-	N.D.	-

		Concentration (%)					
Batch	Substance Name	CAS No.	A001	A002	A003 except(A-28)	RL (%)	
-	All tested SVHC in Candidate List	-	N.D.	N.D.	N.D.	-	

#### Remark:

- (1) RL=Report Limit. All RL are based on homogenous material and these limits are based on laboratory testing technology. When the testing result exceed RL, the report will show specific result. ND= Not detected (lower than RL), ND is denoted on the SVHC substance.
- (2)  $\triangle$ CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$  HBCDD, $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8
- (3) \*The test result is based on the calculation of selected element(s)/ marker(s) and the worst-case scenario.
- (4) §The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number:90-94-8) or Michler's base (CAS Number: 101-61-1)≥0.1%(w/w).



## 4. Annex Full list tested SVHC

No.	Substance Name	CAS No.	RL (%)
1	4,4'-Diaminodiphenylmethane	101-77-9	0.050
2	5-tert-butyl-2,4,6-trinitro-m-xylene	81-15-2	0.050
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
4	Anthracene	120-12-7	0.050
5	Diarsenic pentaoxide*	1303-28-2	0.005
6	Diarsenic trioxide*	1327-53-3	0.005
7	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
8	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
9	Benzyl butyl phthalate (BBP)	85-68-7	0.050
10	Cobalt dichloride*	7646-79-9	0.005
11	Dibutyl phthalate (DBP)	84-74-2	0.050
12	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD,γ-HBCDD) <sup>Δ</sup>	25637-99-4; 3194-55-6	0.050
13	Lead hydrogen arsenate*	7784-40-9	0.005
14	Sodium dichromate*	7789-12-0 10588-01-9	0.005
15	Triethyl arsenate*	15606-95-8	0.005
16	Anthracene oil	90640-80-5	0.050
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	0.050
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.050
19	Anthracene oil, anthracene-low	90640-82-7	0.050
20	Anthracene oil, anthracene paste	90640-81-6	0.050
21	Pitch, coal tar, high temp	65996-93-2	0.050
22	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	0.050
23	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.050
24	Diisobutyl phthalate (DIBP)	84-69-5	0.050
25	Lead chromate molybdate sulfate red * (C.I. Pigment Red 104)	12656-85-8	0.005
26	Lead sulfochromate yellow* (C.I. Pigment Yellow 34)	1344-37-2	0.005
27	Lead chromate*	7758-97-6	0.005



No.	Substance Name	CAS No.	RL (%)
28	Acrylamide	79-06-1	0.050
29	Trichloroethylene	79-01-6	0.050
30	Boric acid*	10043-35-3 11113-50-1	0.005
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3	0.005
32	Tetraboron disodium heptaoxide,hydrate*	12267-73-1	0.005
33	Sodium chromate*	7775-11-3	0.005
34	Potassium chromate*	7789-00-6	0.005
35	Ammonium dichromate*	7789-09-5	0.005
36	Potassium dichromate*	7778-50-9	0.005
37	Cobalt(II) sulphate*	10124-43-3	0.005
38	Cobalt(II) dinitrate*	10141-05-6	0.005
39	Cobalt (II) carbonate*	513-79-1	0.005
40	Cobalt(II) diacetate*	71-48-7	0.005
41	2-Methoxyethanol	109-86-4	0.050
42	2-Ethoxyethanol	110-80-5	0.050
43	Chromium trioxide*	1333-82-0	0.005
44	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	0.005
45	2-ethoxyethyl acetate	111-15-9	0.050
46	Strontium chromate*	7789-6-2	0.005
47	1,2-Benzenedicarboxylic acid,di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.050
48	Hydrazine	302-01-2 7803-57-8	0.050
49	1-methyl-2-pyrrolidone	872-50-4	0.050
50	1,2,3-trichloropropane	96-18-4	0.050
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	0.050
52	Dichromium tris(chromate)*	24613-89-6	0.005
53	Potassium hydroxyoctaoxodizincatedi-chromate*	11103-86-9	0.005
54	Pentazinc chromate octahydroxide*	49663-84-5	0.005





			1
No.	Substance Name	CAS No.	RL (%)
55	Aluminosilicate Refractory Ceramic Fibres*	-	0.005
56	Zirconia Aluminosilicate Refractory Ceramic Fibres*	-	0.005
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.050
58	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
59	2-Methoxyaniline;o-Anisidine	90-04-0	0.050
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	0.050
61	1,2-Dichloroethane	107-06-2	0.050
62	Bis(2-methoxyethyl) ether	111-96-6	0.050
63	Arsenic acid*	7778-39-4	0.005
64	Calcium arsenate*	7778-44-1	0.005
65	Trilead diarsenate*	3687-31-8	0.005
66	N,N-dimethylacetamide (DMAC)	127-19-5	0.050
67	3,3'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.050
68	Phenolphthalein	77-09-8	0.050
69	Lead azide Lead diazide*	13424-46-9	0.005
70	Lead styphnate*	15245-44-0	0.005
71	Lead dipicrate*	6477-64-1	0.005
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
74	Diboron trioxide*	1303-86-2	0.005
75	Formamide	75-12-7	0.050
76	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H) -trione (TGIC)	2451-62-9	0.050
78	1,3,5-tris[(2S and2R)-2,3-epoxypropyl]-1,3,5-triazine -2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.050
79	4,4'-bis(dimethylamino)benzophe none (Michler's ketone)	90-94-8	0.050
80	N,N,N',N'-tetramethyl-4,4'-methyl enedianiline (Michler's base)	101-61-1	0.050
81	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I.Basic Blue 26) §	2580-56-5	0.050





			T
No.	Substance Name	CAS No.	RL (%)
82	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5 -dien-1-ylidene]dimethylammoniumchloride (C.I. Basic Violet 3) §	548-62-9	0.050
83	4,4'-bis(dimethylamino)-4"-(methylamino) trityl alcohol§	561-41-1	0.050
84	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; Deca-BDE)	1163-19-5	0.050
86	Pentacosafluorotridecanoic acid	72629-94-8	0.050
87	Tricosafluorododecanoic acid	307-55-1	0.050
88	Henicosafluoroundecanoic acid	2058-94-8	0.050
89	Heptacosafluorotetradecanoic acid	376-06-7	0.050
90	Diazene-1,2-dicarboxamide(C,C'-azodi(formamide))	123-77-3	0.050
91	Cyclohexane-1,2-dicarboxylic anhydride	14166-21-3	0.050
92	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.050
93	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.050
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.050
95	Methoxyacetic acid	625-45-6	0.050
96	N,N-dimethylformamide	68-12-2	0.050
97	Dibutyltin dichloride (DBT)	683-18-1	0.050
98	Lead monoxide (Lead oxide)*	1317-36-8	0.005
99	Orange lead (Lead tetroxide)*	1314-41-6	0.005
100	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
101	Trilead bis(carbonate)dihydroxide*	1319-46-6	0.005
102	Lead titanium trioxide*	12060-00-3	0.005



No.	Substance Name	CAS No.	RL (%)
103	Lead titanium zirconium oxide*	12626-81-2	0.005
104	Silicic acid, lead salt*	11120-22-2	0.005
105	Silicic acid , barium salt , lead-doped*	68784-75-8	0.005
106	1-bromopropane (n-propyl bromide)	106-94-5	0.050
107	Methyloxirane (Propylene oxide)	75-56-9	0.050
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
109	Diisopentylphthalate (DIPP)	605-50-5	0.050
110	N-pentyl-isopentylphthalate	776297-69-9	0.050
111	1,2-diethoxyethane	629-14-1	0.050
112	Acetic acid, lead salt, basic*	51404-69-4	0.005
113	Lead oxide sulfate*	12036-76-9	0.005
114	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
115	Dioxobis(stearato)trilead*	12578-12-0	0.005
116	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
117	Lead cynamidate*	20837-86-9	0.005
118	Lead dinitrate*	10099-74-8	0.005
119	Pentalead tetraoxide sulphate*	12065-90-6	0.005
120	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
121	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
122	Tetraethyllead*	78-00-2	0.005
123	Tetralead trioxide sulphate*	12202-17-4	0.005
124	Trilead dioxide phosphonate*	12141-20-7	0.005
125	Furan	110-00-9	0.050
126	Diethyl sulphate	64-67-5	0.050
127	Dimethyl sulphate	77-78-1	0.050
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
129	Dinoseb	88-85-7	0.050
130	4,4'-methylenedi-o-toluidine	838-88-0	0.050
131	4,4'-oxydianiline and its salts	101-80-4	0.050
132	4-aminoazobenzene	60-09-3	0.050
133	4-methyl-m-phenylenediamine	95-80-7	0.050



N.L.	Cubatanaa Nama	CAC NI-	DL (0()
No.	Substance Name	CAS No.	RL (%)
134	6-methoxy- <i>m</i> -toluidine	120-71-8	0.050
135	Biphenyl-4-ylamine	92-67-1	0.050
136	o-aminoazotoluene	97-56-3	0.050
137	o-toluidine	95-53-4	0.050
138	N-methylacetamide	79-16-3	0.050
139	Cadmium*	7440-43-9	0.005
140	Cadmium oxide*	1306-19-0	0.005
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
142	Pentadecafluorooctanoic acid(PFOA)	335-67-1	0.050
143	Dipentyl phthalate (DPP)	131-18-0	0.050
144	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
145	Cadmium sulphide*	1306-23-6	0.005
146	Dihexyl phthalate	84-75-3	0.050
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis	573-58-0	0.050
147	(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	<i>313-30-0</i>	0.000
	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo]		
148	[1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthal	1937-37-7	0.050
	ene-2,7-disulphonate (C.I. DirectBlack 38)		
149	Imidazolidine-2-thione	96-45-7	0.050
150	Lead di(acetate)*	301-04-2	0.005
151	Trixylyl phosphate	25155-23-1	0.050
450	1,2-Benzenedicarboxylic acid, dihexyl ester, branched	COE4E EO 4	0.050
152	and linear	68515-50-4	0.050
153	Cadmium chloride*	10108-64-2	0.005
154	Sodium perborate; perboric acid, sodium salt*	-	0.005
155	Sodium peroxometaborate*	7632-04-4	0.005
156	Cadmium fluoride*	7790-79-6	0.005
157	Cadmium sulphate*	10124-36-4	0.005
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphe-nol (UV-328)	25973-55-1	0.050
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia -4-stannatetradecanoate (DOTE)	15571-58-1	0.050
161	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8 -oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.050



No.	Substance Name	CAS No.	RL (%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5/ 68648-93-1	0.050
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1],5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.050
164	1,3-propanesultone	1120-71-4	0.050
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
167	Nitrobenzene	98-95-3	0.050
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.050
169	Benzo[def]chrysene	50-32-8	0.050
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
171	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	0.050
172	4-heptylphenol, branched and linear (4-HPbl)	-	0.050
173	4-tert-pentylphenol (PTAP)	80-46-6	0.050
174	Perfluorohexane-1-sulphonic acid and its salts PFHxS	_	0.050
175	Dechlorane Plus(TM) and reaction products of1,3,4-thiadiazolidine-2,5-dithione	-	0.050
176	benz[a]anthracene	56-55-3	0.050
177	cadmium nitrate*	10325-94-7	0.005
178	cadmium carbonate*	513-78-0	0.005
179	cadmium hydroxide*	21041-95-2	0.005
180	chrysene	218-01-9	0.050
181	formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
182	Terphenyl, hydrogenated	61788-32-7	0.050
183	Octamethylcyclotetrasiloxane D4	556-67-2	0.050
184	Lead*	7439-92-1	0.005
185	Ethylenediamine EDA	107-15-3	0.050





			1
No.	Substance Name	CAS No.	RL (%)
186	Dodecamethylcyclohexasiloxane D6	540-97-6	0.050
187	Disodium octaborate*	12008-41-2	0.005
188	Dicyclohexyl phthalate DCHP	84-61-7	0.050
189	Decamethylcyclopentasiloxane D5	541-02-6	0.050
190	Benzo[ghi]perylene	191-24-2	0.050
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride trimellitic anhydride; TMA	552-30-7	0.050
192	2,2-bis(4'-hydroxyphenyl)- 4-methylpentane	6807-17-6	0.005
193	Benzo[k]fluoranthene	207-08-9	0.005
194	Fluoranthene	206-44-0	0.050
195	Phenanthrene	85-01-8	0.050
196	Pyrene	129-00-0	0.050
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.050
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050
199	4-tert-butylphenol	98-54-4	0.050
200	2-methoxyethyl acetate	110-49-6	0.050
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	0.050
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.050
203	Diisohexyl phthalate	71850-09-4	0.050
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-o ne	71868-10-5	0.050
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
206	1-vinylimidazole	1072-63-5	0.050
207	2-methylimidazole	693-98-1	0.050
208	Butyl 4-hydroxybenzoate	94-26-8	0.050
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.050
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.050
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	0.050
212	1,4-dioxane	123-91-1	0.050
213	2,2-bis(bromomethyl)propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	0.050

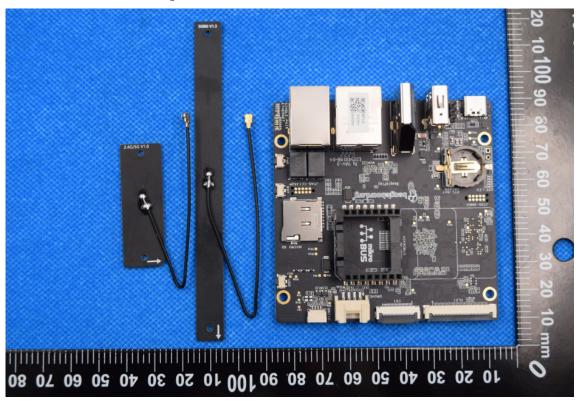


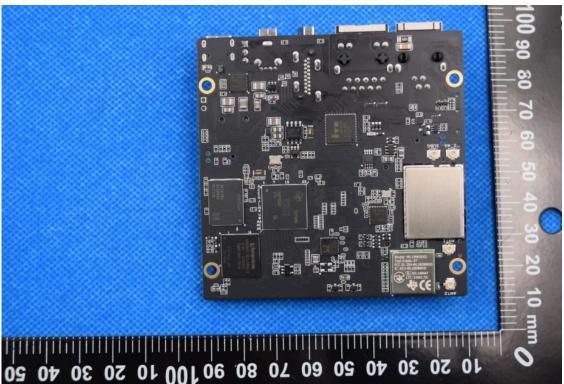
No.	Substance Name	CAS No.	RL (%)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.050
215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	0.050
216	Glutaral	111-30-8	0.050
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.050
218	Orthoboric acid, sodium salt*	13840-56-7	0.005
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	0.050
220	$(\pm)$ -1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo [2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.050
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.050
222	S-(tricyclo[5.2.1.0'2,6]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.050
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050
224	N-(hydroxymethyl)acrylamide	924-42-5	0.050
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	0.050
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	0.050
227	4,4'-sulphonyldiphenol	80-09-1	0.050
228	Barium diboron tetraoxide*	13701-59-2	0.005
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.050
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.050
231	Melamine	108-78-1	0.050
232	Perfluoroheptanoic acid and its salts	-	0.050
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl) morpholine	-	0.050





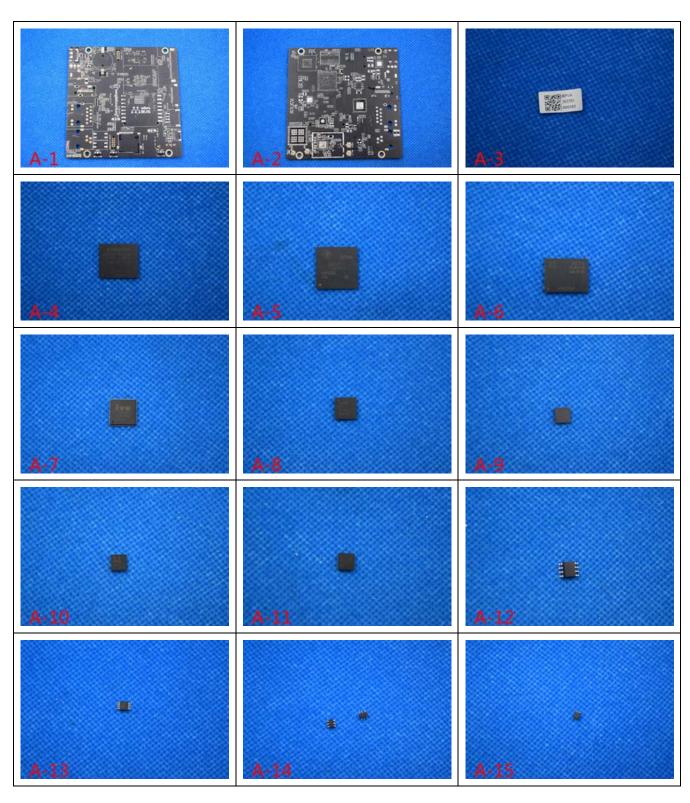
# 5. Photo of Sample





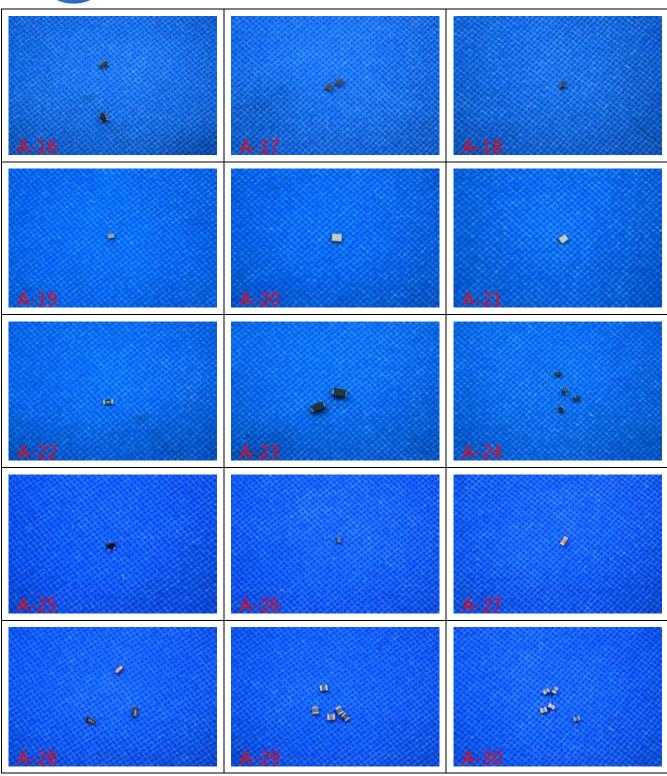






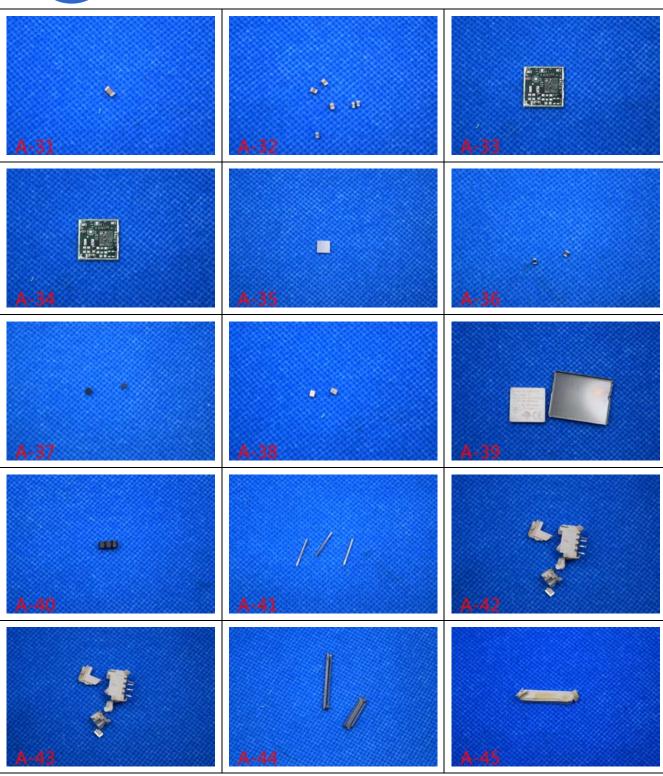
Tel: 86-755-36698555





Tel: 86-755-36698555



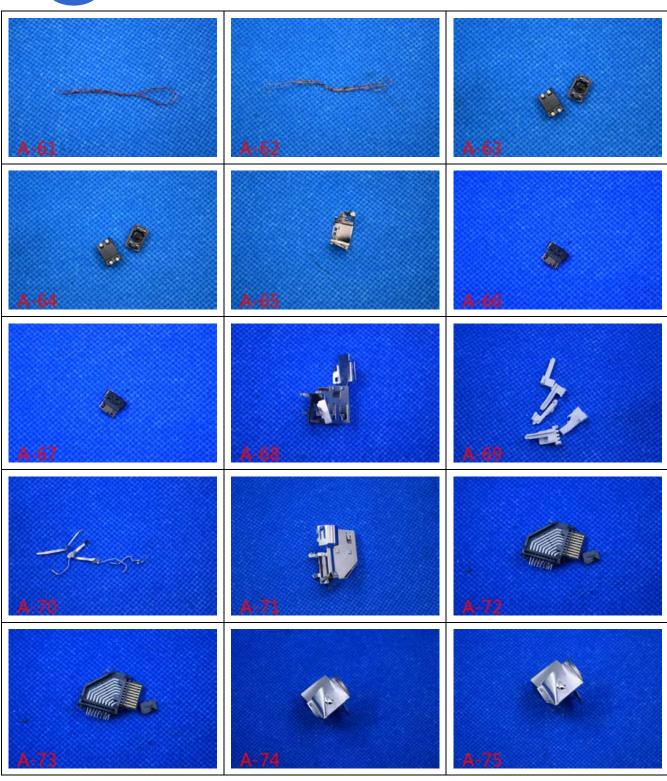


Tel: 86-755-36698555





















## **Annex A General Information**

## 1.1 Identification of the Responsible Testing Laboratory

Laboratory Name: Shenzhen Morlab Communications Technology Co., Ltd.	
Laboratory Address: FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road	
	Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

## 1.2 Identification of the Responsible Testing Location

Name: Shenzhen Morlab Communications Technology Co., Ltd.	
Address:	FL.1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Address.	Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

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



# **TEST REPORT**

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

Product Name : BeaglePlay

Model Name : BeaglePlay

**Brand Name**: Beagleboard.org

Test Request : With reference to RoHS Directive 2015/863/EU amending 2011/65/EU

**Receipt Date** : 2023-01-04

**Test Date** : 2023-01-04 to 2023-02-22

**Issue Date** : 2023-02-22

**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.

Edited by

Deng Báiiiap ɗRapporteur`

Approved by

(Imon Sun (Supervisor)

**NOTE:** This document is issued by Shenzhen Morlab Communications Technology Co., Ltd., the Verification 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 validation and information confirmed at our website.



Tel: 86-755-36698555 Http://www.morlab.cn Fax: 86-755-36698525 E-mail: service@morlab.cn





# **DIRECTORY**

1. Applicant Information ······	3
2. Test Methods	3
3. Test Results And Sample Description	5
Annex A Photo of Sample ······	31
Annex B Photo of Test Part	32
Annex C General Information ······	39

Change History			
Version Date Reason for Change			
1.0	2023-02-22	First edition	



# 1. Applicant Information

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

Applicant Address

9F,Building G3,TCL International E city,Zhongshanyuan
:

Road, Nanshan, Shenzhen, China.

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≤70-3σ <d<130+3σ≤f< td=""><td>P≤70-3σ<d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<></td></d<130+3σ≤f<>	P≤70-3σ <d<130+3σ≤f< td=""><td>P≤50-3σ<d<150+3σ≤f< td=""></d<150+3σ≤f<></td></d<130+3σ≤f<>	P≤50-3σ <d<150+3σ≤f< td=""></d<150+3σ≤f<>
Pb	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Hg	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤700-3σ<d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<></td></d<1300+3σ≤f<>	P≤700-3σ <d<1300+3σ≤f< td=""><td>P≤500-3σ<d<1500+3σ≤f< td=""></d<1500+3σ≤f<></td></d<1300+3σ≤f<>	P≤500-3σ <d<1500+3σ≤f< td=""></d<1500+3σ≤f<>
Br	P≤300-3σ <d< td=""><td></td><td>P≤250-3σ<d< td=""></d<></td></d<>		P≤250-3σ <d< td=""></d<>
Cr	P≤700-3σ <d< td=""><td>P≤700-3σ<d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<></td></d<>	P≤700-3σ <d< td=""><td>P≤500-3σ<d< td=""></d<></td></d<>	P≤500-3σ <d< td=""></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
Cr	IEC 62321-7-1:2015 <sup>♣</sup> (For Plating on Metals)	00-013	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.
- $(g)^{\blacktriangle}$  = a. The sample is negative for  $Cr^{6+}$  the  $Cr^{6+}$  concentration is below the limit 0.10ug/cm<sup>2</sup>. The coating is considered a non-Cr6+ 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				

Tel: 86-755-36698555



# 3. Test Results and Sample Description The results of XRF screening and chemical test (Unit: mg/kg)

Part	Description	Material	X-ray Screening		Results of	Conclusion	Sample
No.			Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
		Composite	Br	D		Comply	/
۸ ،	Disal, DOD		Cr <sup>6+</sup>				
A-1	Black PCB		PBBs		N.D.	Comply	
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			/
			Hg	Р			
			Cr	Р			
		Metal	Br				
A-2	Silvery Solder		Cr <sup>6+</sup>			Comply	
7 2	Cirvory Coldon		PBBs			Comply	
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP	<u></u>			
			Pb	P		Comply	/
		Composite	Cd	P			
			Hg	Р			
			Cr	D			
	\\/hita Adhaaiya		Br O 6+	Р			
A-3	White Adhesive		Cr <sup>6+</sup>		N.D.		
	With Black Lettering		PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
A-4	Black IC	Composite	Cd	Р			
			Hg	Р			
			Cr	Р		Comply	
			Br	Р			
			Cr <sup>6+</sup>				/
			PBBs				,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		

Tel: 86-755-36698555



Part		Material	X-ray Screening		Results of	Conclusion	Sample
No.	Description		Element	Data	Chemical Test	on RoHS EU	Resubmitted
		Pb	P				
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
	D	ack IC Composite	Cr <sup>6+</sup>				/
A-5	Black IC		PBBs			Comply	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			1
۸.6	Plack IC	Composito	Cr <sup>6+</sup>			Comply	1
A-6	Black IC	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			/
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р		Comply	
A-7	Black IC	Composite	Cr <sup>6+</sup>				
, , ,	Didok 10	Composite	PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
A-8 E			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
	Black IC		Cd	Р			
			Hg	Р			
			Cr	P			
		Composite	Br C=6+	Р			
			Cr <sup>6+</sup>			Comply	/
			PBBs				
			PBDEs		 N.D		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	ivialerial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			1
A-9	Black IC	Composito	Cr <sup>6+</sup>			Comply	
A-9	DIACK IC	Composite	PBBs			Comply	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			/
			Cr	Р			
			Br	Р			
A-10	Black IC	Composite	Cr <sup>6+</sup>			Comply	
A-10	DIACK IC	Black IC Composite	PBBs			Comply	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			/
			Cd	Р			
			Hg	Р			
			Cr	Р		Comply	
			Br	Р			
A-11	Black IC	Composite	Cr <sup>6+</sup>				
Α-11	Diack 10	Black IC Composite	PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
A-12			Cd	Р		Comply	
			Hg	Р			
			Cr	Р			
	Black IC	Composite	Br	Р			
			Cr <sup>6+</sup>				/
			PBBs				,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	rt		X-ray Screening		Results of	Conclusion	Sample
No.	Description	Material	Element Data		Chemical Test	on RoHS EU	Resubmitted
		Pb	P				
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
		Composite	Cr <sup>6+</sup>				/
A-13	Black IC		PBBs			Comply	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	P			
			Cr	Р			
			Br	P			
	DI. 1.10		Cr <sup>6+</sup>			0 1	,
A-14	Black IC	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р		Comply	/
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-15	Black IC	Composite	Cr <sup>6+</sup>				
Α-13	Diack 10	Composite	PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		<del> </del>
A-16			Pb	P			
	Black IC		Cd	P			
		Composite	Hg	P		Comply	
			Cr	P			
			Br	Р			
			Cr <sup>6+</sup>				/
			PBBs				•
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Motorial	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
		Hg	Р				
			Cr	Р			
			Br	P			
		Cr <sup>6+</sup>					
A-17	Black IC	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	 P	N.D.		
			Cd				
				P P			
			Hg	P			
			Cr				
			Br Cr <sup>6+</sup>	Р			
A-18	Black IC	Composite				Comply	/
			PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP	<del></del>	N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-19	Brown IC	Composite	Cr <sup>6+</sup>			Comply	/
/ 10	5.0	Composito	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A 00	Golden Crystal	Composite	Cr <sup>6+</sup>			Comercia	,
A-20	Oscillator	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
		1	DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Waterial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-21	Silvery Crystal	Composite	Cr <sup>6+</sup>			Comply	,
A-21	Oscillator	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br	Р			
A-22	Black Resistor	Composite	Cr <sup>6+</sup>		N.D.	Comply	/
/ \	Black Resistor	Composite	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-23	Black Diode	Composite	Cr <sup>6+</sup>			Comply	/
7.20			PBBs			J 50p.,	•
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br O-6+	Р			
A-24	Black Triode	Composite	Cr <sup>6+</sup>			Comply	/
		,	PBBs			' '	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Bocompaion	Matorial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-25	Black Triode	Composite	Cr <sup>6+</sup>			Comply	1
A-20	Didok Thode	Composite	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br	Р			
A-26	Black Inductance	Composite	Cr <sup>6+</sup>		N.D.	Comply	1
7.20			PBBs				•
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	P			
			Cr	P			/
	Brown Chip		Br Cr <sup>6+</sup>	Р			
A-27		Composite				Comply	
	Capacitor		PBBs				
			PBDEs		 N.D		
			DBP BBP		N.D. N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	F	&1.28×10 <sup>4</sup>		
			Cd	P	41.20x10		
			Hg	P			
			Cr	P			
			Br	P			
	Brown Crystal		Cr <sup>6+</sup>			_	
A-28	Oscillator	Composite	PBBs			Comply	/
	Oscillatol		PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Bocomption	Matorial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br	Р			
A-29	Gray Chip Capacitor	Composite	Cr <sup>6+</sup>		N.D.	Comply	/
7 25	Gray Griip Gapaoitor	Composito	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	P			
			Hg	P			
			Cr	D			1
			Br O 6+	Р			
A-30	Gray Chip Capacitor	ip Capacitor Composite	Cr <sup>6+</sup>		N.D.	Comply	/
			PBBs				
			PBDEs				
			DBP		N.D.		
			BBP DEHP		N.D. N.D.		
			DIBP		N.D.		
			Pb	P	N.D.		
			Cd	P			
			Hg	P			
			Cr	P			
			Br	Р			
	Brown Chip		Cr <sup>6+</sup>	· 			
A-31	Capacitor	Composite	PBBs			Comply	/
	Capacitor		PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-32	Brown Chip	Composite	Cr <sup>6+</sup>			Comply	/
71 02	Capacitor	Composite	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Waterial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-33	Green PCB	Composite	Cr <sup>6+</sup>			Comply	1
A-33	Gleen FCD	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-34	Silvery Solder	Metal	Cr <sup>6+</sup>			Comply	/
/ 04	Olivery Colder	ivietai	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			/
			Br	Р			
A-35	Silvery IC	Composite	Cr <sup>6+</sup>			Comply	
7.00	<b>,</b>		PBBs			J 50p.,	•
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
	Black Chip		Br O-6+	Р			
A-36		Composite	Cr <sup>6+</sup>			Comply	/
	Capacitor	,	PBBs			' '	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part			X-ray S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>				
A-37	Black IC	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	P			
			Cr	Р			
			Br	Р			
4 00	Silvery Crystal	0	Cr <sup>6+</sup>			0 1	,
A-38	Oscillator	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-39	Silvery Metal	Metal	Cr <sup>6+</sup>			Comply	/
A-38	Shielding Case	iviciai	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	P			
			Br	D			
A-40	Black Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
/: 10		,	PBBs		N.D.		,
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	iviateriai	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-41	Cilvery Metal Din	Metal	Cr <sup>6+</sup>			Comply	,
A-41	Silvery Metal Pin	ivietai	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-42	White Plastic	Polymer	Cr <sup>6+</sup>			Comply	1
A-42	vville i lastic	Tille Plastic Polymer	PBBs			Comply	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			/
			Br				
A-43	Silvery Metal Pin	Metal	Cr <sup>6+</sup>			Comply	
71 10	Cirrory Motal 1 iii	Wiota.	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br O=6+	Р			
A-44	Black Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
			PBBs			' '	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Matarial	X-ray S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	Р			
		Hg	P				
		Cr	P				
		Br	P				
		Cr <sup>6+</sup>					
A-45	Beige Plastic	Polymer				Comply	/
			PBBs PBDEs				
					N.D		
			DBP BBP		N.D. N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	P			
			Cr	Р			
			Br				
A-46	Silvery Metal Pin	Metal	Cr <sup>6+</sup>			Comply	/
7	,		PBBs				,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-47	White Plastic	Polymer	Cr <sup>6+</sup>			Comply	,
A-47	Wille Flastic	Folymen	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	P			
			Hg	Р			
			Cr	D			
			Br				
	Card Slot Silvery		Cr <sup>6+</sup>		Negative	_	
A-48	Metal	Metal	PBBs			Comply	/
	ivietai		PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			וטוט	- <b></b>	_ <b></b>		



Part			X-rav S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
	Card Slot Black		Hg	P			
			Cr	P			
			Br	P			
			Cr <sup>6+</sup>				
A-49	Plastic	Polymer	PBBs			Comply	/
	Plastic		PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-50	Silvery Metal Pin	Metal	Cr <sup>6+</sup>			Comply	/
7.00	,		PBBs			J 50p.,	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	D			
A-51	Black Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
Α-51	Diack Flastic	1 Olymber	PBBs		N.D.	Comply	,
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A 50	Coldon Matal Dir	N A = 4 = 1	Cr <sup>6+</sup>			0	,
A-52	Golden Metal Pin	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
<u> </u>					I	<u> </u>	



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Waterial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
۸ 50	Croy Plantia	Dolumor	Cr <sup>6+</sup>			Comply	,
A-53	Grey Plastic	Polymer	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-54	Golden Metal Pin	Metal	Cr <sup>6+</sup>			Comply	/
A-34	Golden Wetan III	Metal Pin Metal	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			/
			Cr	Р			
			Br	Р			
A-55	Black Plastic	Polymer	Cr <sup>6+</sup>			Comply	
7.00		,	PBBs			J 50p.,	•
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br O=6+				
A-56	Silvery Metal	Metal	Cr <sup>6+</sup>			Comply	/
			PBBs			' '	
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				



Part No.   Description   Material   X-ray Screening   Results of Chemical Test   Chemical Te	nple mitted
A-57   Silvery Metal   Shrapnel   Metal   Pb   P	
A-57   Silvery Metal   Shrapnel   Metal   Metal   DBP     Cmply   Comply   Com	
A-57 Silvery Metal Shrapnel  Metal  Metal  Hg Cr D Br Negative PBBs PBDEs DBP BBP DEHP DIBP DIBP DIBP DIBP	
A-57   Silvery Metal   Shrapnel   Metal   Metal   Cr	
A-57   Silvery Metal   Shrapnel   Metal	
A-57   Silvery Metal   Metal   Cr <sup>6+</sup>     Negative   Comply   / PBBs         DBP     DEHP     DIBP         DIBP         Comply   / PBDEs         DIBP         DIBP         DIBP         Comply   / PBBs	
Netal   PBBs     Comply   / PBDEs     DBP     DEHP     DIBP     DIBP     DIBP       DIBP       DIBP         DIBP             DIBP	
PBBS	
DBP             BBP             DEHP             DIBP	
BBP DIBP	
DEHP DIBP	
DIBP	
Cd   P	
Hg   P	
<u>Cr</u> P Br P	
0.6+	
A-58 White Plastic Polymer Crs Comply /	
PBDEs	
DBP N.D.	
BBP N.D.	
DEHP N.D.	
DIDD	
DIBP N.D.   Pb P	
Cd P	
Hg P	
Cr P	
Br P	
Cr <sup>6+</sup>	
A-59 Black Plastic Shell Polymer BBs Comply /	
PBDEs	
DBP N.D.	
BBP N.D.	
DEHP N.D.	
DIBP N.D.	
Pb P	
Cd P	
Hg P	
Cr P	
Br P	
Cr <sup>6+</sup>	
A-60 Grey Ceramic Composite PBBs Comply /	
PBDEs	
DBP N.D.	
BBP N.D.	
DEHP N.D.	
DIBP N.D.	



Part			X-rav S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	· 			
			Cr <sup>6+</sup>				
A-61	Red Metal Coil	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-62	Copper-Colored	Metal	Cr <sup>6+</sup>			Comply	/
A-02	Metal Coil	ivietai	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	P			
			Br	Р			
A-63	Black Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
			PBBs			Comply	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb Cd	P P			
			Hg Cr	P P			
			Br				
			Cr <sup>6+</sup>				
A-64	Silvery Metal Pin	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
		<u> </u>	וטוט		1	]	



			1		1		
Part	Description	Material	X-ray So		Results of	Conclusion	Sample
No.	'		Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
	Type C Dest Cilyes		Br				
A-65	Type-C Port Silvery	Metal	Cr <sup>6+</sup>		Negative	Comply	/
	Metal Shell		PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			/
			Hg	P			
			Cr Br	D P			
	Type-C Port Black		Cr <sup>6+</sup>		N.D.		
A-66		Polymer			N.D.	Comply	
	Plastic		PBBs PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р	14.D.		
			Cd	P			
			Hg	P			
			Cr	D			
			Br				
	Type-C Port Golden		Cr <sup>6+</sup>		Negative		
A-67	Metal Pin	Metal	PBBs			Comply	/
	Wictai i iii		PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	P			
			Hg	P			
			Cr	P			
			Br				
A 00	Cilvon, Motol Chall	Matal	Cr <sup>6+</sup>			Committee	,
A-68	Silvery Metal Shell	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				



Part			X-ray S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	Р			
			Hg	P			
			Cr	Р			
			Br	Р			
			Cr <sup>6+</sup>	· 		_	
A-69	White Plastic	Polymer	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			/
			Cr	Р			
			Br				
A 70	Calden Matal Din	Matal	Cr <sup>6+</sup>			0 1 -	
A-70	Golden Metal Pin	Metal	PBBs			Comply	
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-71	HDMI Port Silvery	Metal	Cr <sup>6+</sup>			Comply	/
/ / / /	Metal Shell	ota	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
	HDMI Port Black		Br O-6+	Р			
A-72		Polymer	Cr <sup>6+</sup>			Comply	/
	Plastic	_	PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	5		X-ray S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	Р			
			Hg	P			
			Cr	P			
			Br				
	Silvery Metal Pin		Cr <sup>6+</sup>				
A-73	With Golden Plating	Metal	PBBs			Comply	/
	With Colden Flating		PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br				
A 74	Cibram Matal Chall	Matal	Cr <sup>6+</sup>		Negative	0 1.	,
A-74	Silvery Metal Shell	ry Metal Shell Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br				
A-75	Silvery Solder	Metal	Cr <sup>6+</sup>		Negative	Comply	/
A-13	Olivery Colder	Wictai	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	P			
			Br	Р			
A-76	Yellow LED	Composite	Cr <sup>6+</sup>			Comply	/
		225000	PBBs			J 50p.iy	,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part			X-ray S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
			Hg	P			
			Cr	P			
			Br				
			Cr <sup>6+</sup>				
A-77	Silvery Metal Pin	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			/
			Cr	Р			
			Br	D			
۸ 70	Disak Disatio	Dolumor	Cr <sup>6+</sup>			Committee	
A-78	Black Plastic	Polymer	PBBs		N.D.	Comply	
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-79	Golden Metal Pin	Metal	Cr <sup>6+</sup>			Comply	/
7170	Coldon Motal i III	ota.	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br O=6+	Р			
A-80	Black Glue	Composite	Cr <sup>6+</sup>			Comply	/
			PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
		DIBP		N.D.			



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Bocomption	Matorial	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-81	Grey Ceramic	Composite	Cr <sup>6+</sup>			Comply	1
A-01	Grey Ceramic	Composite	PBBs			Comply	/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	D			
			Br	Р			
A-82	Black Plastic Wire	Black Plastic Wire  Jacket Polymer	Cr <sup>6+</sup>		N.D.	Comply	/
A-02	Jacket		PBBs				/
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			/
			Br				
A-83	Copper-Colored	Metal	Cr <sup>6+</sup>			Comply	
A-03	Metal Coil	Ivictal	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-84	Red Metal Coil	Metal	Cr <sup>6+</sup>			Comply	/
, t 0-	1.00 11.000 0011		PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				



Part			X-rav S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
			Hg	P			
			Cr	P			
			Br				
			Cr <sup>6+</sup>				
A-85	Blue Metal Coil	Metal	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP	- 1			
			Pb	Р			
			Cd	P			/
			Hg	Р			
			Cr	Р			
			Br 0.6±				
A-86	Green Metal Coil	Metal	Cr <sup>6+</sup>			Comply	
			PBBs				
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	P			
			Cr	Р			
			Br	D			
A-87	Green PCB	Composite	Cr <sup>6+</sup>			Comply	/
, , , ,	0.00	00	PBBs		N.D.	oompi,	,
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-88	Silvery Solder	Metal	Cr <sup>6+</sup>			Comply	,
/ ( 00	311731 y 301401	Wiotai	PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				



Part			X-rav S	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	P			
			Cd	P			
			Hg	P			
			Cr	P			
			Br	P			
	Brown Chip		Cr <sup>6+</sup>				
A-89		Composite	PBBs			Comply	/
	Capacitor		PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	 Р	IN.D.		
			Cd	P			
				P			
			Hg				
			Cr	Р			
			Br Cr <sup>6+</sup>				
A-90	Silvery Metal Pin	Metal				Comply	/
			PBBs			J 55	
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	P			
			Cd	P			
			Hg	Р			
			Cr	P			
			Br Cr <sup>6+</sup>	Р			
A-91	Transparent LED	Composite				Comply	/
		-	PBBs				
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP	 D	N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br C- <sup>6+</sup>				
A-92	Silvery Metal Shell	Metal	Cr <sup>6+</sup>			Comply	/
	•		PBBs			, ,	
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				



No.   Description   Material   Element   Data   Chemical Test   on RoHS EU   Resubmitted	Part	Describedies	Matarial	X-ray S	creening	Results of	Conclusion	Sample
A-93 Black Plastic  Polymer    Polymer   Polym		Description	Material	<b>.</b>				
A-93 Black Plastic Polymer    Cd								
A-93 Black Plastic  Polymer    Hg								
A-93 Black Plastic  Polymer  Polymer  PBS								
A-93   Black Plastic   Polymer   N.D.								
A-93 Black Plastic Polymer PBBS N.D. PBBS N.D. N.D. DBP N.								
A-93   Black Plastic   Polymer   PBBs     N.D.   DBP     D								
PBDES   DBP   DBBP   DBHP   DBHP   DBBP   DBHP   DBBP   DBHP   DBBP   DBHP   DBBP   DBHP   DBBP   DBBBP   DBBP   DBBBP   DBBBBP   DBBBP   DBBB	A-93	Black Plastic	Polymer				Comply	/
DBP								
BBP								
A-94 Silvery Metal Pin    A-94								
A-94 Silvery Metal Pin  Metal  Metal  A-94 Silvery Metal Pin  Metal  A-95 Black PCB  Black PCB  A-96 Silvery Solder  Metal  A-96 Silvery Solder  A-97 DIBP  DIBP  A-98 PBBS  A-98 PBDES  DBP  A-98 PBDES  DBP  A-98 PBDES  DBP  CCd  P  A-98 PBDES  DBP  A-98 PBDES  DBP  CCd  P  A-98 PBDES  DBP  CCd  P  A-98 PBDES  CMBA  A-98 PBDES  DBP  CCd  A-98 PBDES  CCmply  A-98 PBDES  CCmply  A-98 PBDES  DBP  CCd  A-98 PBDES  CCmply  A-98 PBD								
A-94   Silvery Metal Pin								
A-94 Silvery Metal Pin  Metal  Metal  Metal  Metal  Metal  P HB C C C P P HB C C C B P HB C C C P PBBS								
A-94 Silvery Metal Pin  Metal								
A-94 Silvery Metal Pin  Metal								
A-94 Silvery Metal Pin  Metal  Metal  PBS PBBS PBDES DBP BBP DEHP DIBP DIBP DIBP CCd P Br Crs PBBS PBDES DBP DD Br N.D. DBP								
A-94 Silvery Metal Pin  Metal  PBBS PBBS PBBP DEHP DIBP DIBP DIBP CCd P Hg PD Cr PBBS PD Cr P Hg PD Cr PBBS PBBS PBBS PBBS PBBS PBBS PBBS PBB				Cr	Р			
A-94 Silvery Metal PIN Metal PBBs PBBs PBBs PBBP PBBP PBBBP PBBB PBBP PBBBP PBBPP PBBBP PBBPP PBBPP PBBPP PBBPP PBBPP PBBPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPP PBBPPPP PBBBPP PBBPPP PBBBPP PBBPPP PBBBPP PBBPPP PBBBPP								
PBDEs	A 04	Cilvany Matal Dia	Motol	Cr <sup>6+</sup>			Camanlu	,
PBDES	A-94	Silvery ivietal Pin	ietai Piii Ivietai	PBBs			Comply	/
DBP   BBP     BBP								
BBP								
A-95 Black PCB Composite  Composite  Pb Cd P Cd P Br Cr PBBs PBBs PBDEs DBP N.D. DBP Cd P Cr PBBs N.D. DBP N.D. DBP N.D. DBP N.D. Comply / Cr P Cr PBS N.D. Comply / Cd P N.D. Comply / Cd P Cr PBS Cr Br DBP BBB DBP BBB DBP BBP DBP BBP DBP								
A-95 Black PCB Composite  Composite  Composite  Composite  Composite  Br Cor Br DD PBBs N.D. DBP BBP N.D. DEHP N.D. DIBP N.D. DIBP N.D. DIBP N.D. DIBP N.D. DIBP N.D. DIBP N.D. Comply  /  Comply /  Comple Compl								
A-95 Black PCB Composite    Pb								
A-95 Black PCB Composite  Cd Hg P P Br D Cr Br D N.D. PBBs N.D. DBP N.D. DBP N.D. DBP N.D. DBP N.D. DBP N.D. DBP Cd P N.D. DBP N.D. DBP N.D. DBP N.D. Comply  A-96 Silvery Solder  Metal  Metal  Metal  Metal  Cd P P Br Cr P Bs PBBs PBDEs PBDEs DBP Br DBP DBP DBP Br DBP DB								
A-95 Black PCB Composite    Hg								
A-95 Black PCB Composite    Cr   P								
A-95 Black PCB  Black PCB  Composite  Br								
A-95 Black PCB Composite    Cr <sup>6+</sup>								
A-95 Black PCB Composite PBBs N.D. PBDEs N.D. DBP					D			
A-96 Silvery Solder  Metal  PBDES	A-95	Black PCB	Composite			N.D	Comply	/
DBP			-					
BBP								
DEHP								
DIBP								
Pb								
A-96 Silvery Solder Metal Cd P Cmply /  Br Cmply /  PBBs Cmply /  PBDEs Cmply /  BBP						N.D.		
Hg								
A-96 Silvery Solder Metal Cr P Comply /  Br Comply /  PBBs Comply /  BBP  BBP  DEHP				Cd				
A-96 Silvery Solder Metal Cr P Comply /  PBBs Comply /  PBDEs  DBP  BBP  DEHP				Hg	Р			
A-96 Silvery Solder Metal Cr <sup>6+</sup> Comply / PBBs DBP DEHP					Р			
A-96 Silvery Solder Metal Cr <sup>6+</sup> Comply / PBBs DBP DEHP								
A-96   Silvery Solder   Metal   PBBs       Comply   / PBDEs       BBP       DEHP         DEHP           DEHP	A 00	Cilvami Caldan	Matal				0	,
PBDEs             DBP             BBP             DEHP	A-96	Slivery Solder	ivietal				Comply	/
DBP             BBP             DEHP								
BBP DEHP								
				DIBP				



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	D			
۸ ٥٦	Black PCB	Composito	Cr <sup>6+</sup>			Comply	,
A-97	DIACK PCD	Composite	PBBs		N.D.	Comply	/
			PBDEs		N.D.		
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-98	Silvery Solder	ery Solder Metal	Cr <sup>6+</sup>			Comply	/
A-30	Olivery Golder		PBBs			Comply	,
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-99	Golden Metal Head	Metal	Cr <sup>6+</sup>			Comply	/
, , , ,			PBBs			J 50p.,	•
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
	Black Plastic Wire		Br O-6+	Р			
A-100		Polymer	Cr <sup>6+</sup>			Comply	/
	Jacket	,	PBBs			' '	
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		



Part	Description	Material	X-ray So	creening	Results of	Conclusion	Sample
No.	Description	Material	Element	Data	Chemical Test	on RoHS EU	Resubmitted
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br				
A-101	Silvery Metal Wire	Metal	Cr <sup>6+</sup>			Comply	,
A-101	Silvery Metal Wife	เทษเลเ	PBBs			Comply	/
			PBDEs				
			DBP				
			BBP				
			DEHP				
			DIBP				
			Pb	Р			
		Cd	Р				
		Hg	Р				
			Cr	Р			
			Br	Р			
A-102	Transparent Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
A-102	Core Of Cable		PBBs				,
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		
			Pb	Р			
			Cd	Р			
			Hg	Р			
			Cr	Р			
			Br	Р			
A-103	White Plastic	Polymer	Cr <sup>6+</sup>			Comply	/
Α-103	vvinte i lastic	i diyili <del>d</del> i	PBBs			Comply	<i>'</i>
			PBDEs				
			DBP		N.D.		
			BBP		N.D.		
			DEHP		N.D.		
			DIBP		N.D.		

#### Remark:

(1)& = 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.

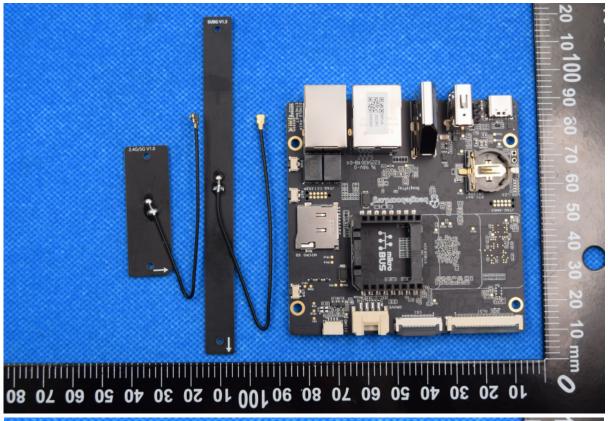
The item is exempted from the requirements of the item 7(c)- I in ANNEX III, (Directive 2011/65/EU).

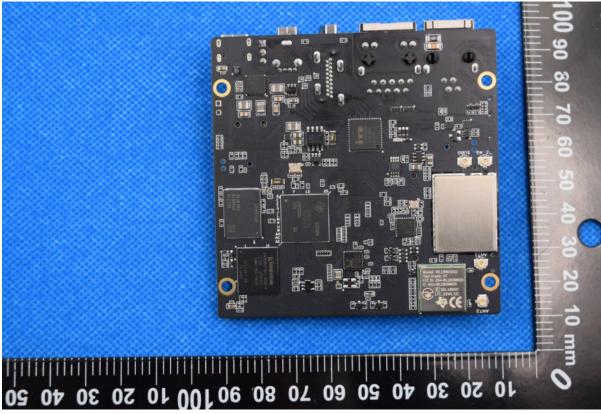
 ${\bf Shenzhen\ Morlab\ Communications\ Technology\ Co.,\ Ltd.}$ 





# **Annex A Photo of Sample**

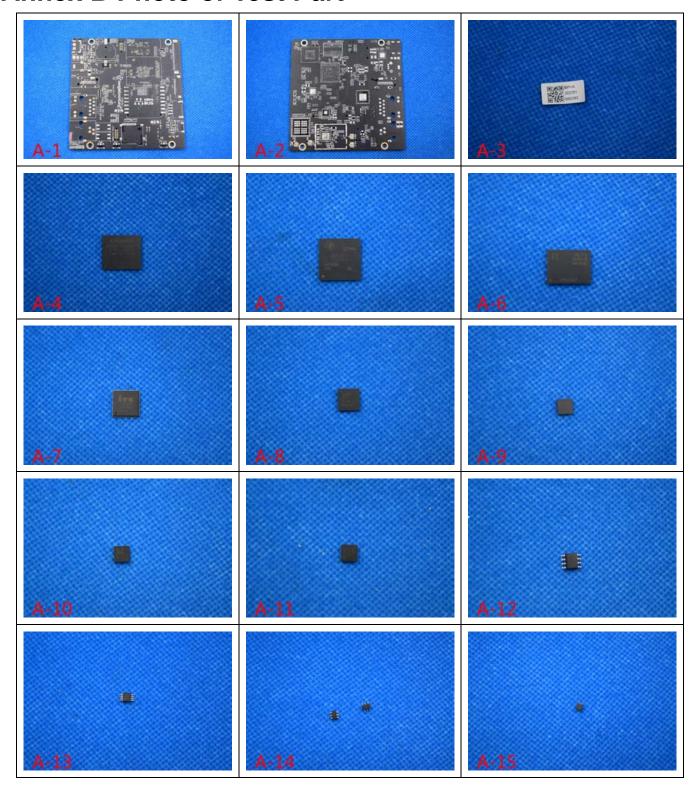




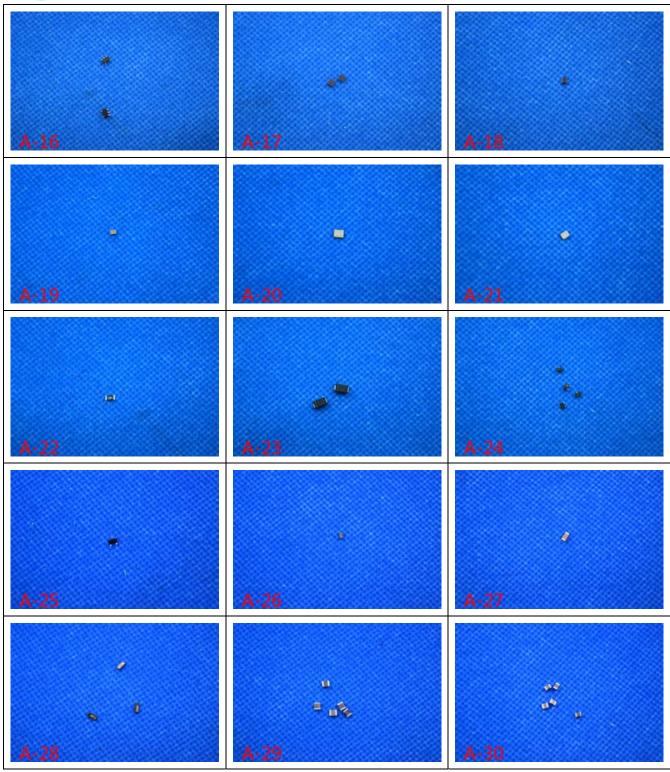




# **Annex B Photo of Test Part**





























### **Annex C General Information**

# 1.1 Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.1-3, 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:	FL.1-3, 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.	Туре	Manufacturer	Cal.Date	Cal.Due Date
1	X-Ray Fluorescence Spectroscopy(XRF)	100180017-00 406A	EDX-1800B	Skyray	2023.02.09	2024.02.08
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	6890-59751	Agilent	2023.02.09	2025.02.08
4	Ultraviolet and visible spectr ophotometry (UV-Vis)	723S18011	DP-733S	Delp	2022.07.04	2023.07.03
5	Inductive Coupled Plasma Emission Spectrometer (ICP-OES)	IC72DC160825	ICAP7200	Thermo	2023.02.09	2024.02.08
6	Gas Chromatography-Mass Spectrometer (GC-MS)	C70504400059 SA	QP2010 PLus	SHIMADZU	2023.02.09	2024.02.08
7	Gas Chromatography-Mass Spectrometer (GC-MS)	021745700818 SA	QP2020 NX	SHIMADZU	2021.10.20	2023.10.19

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



#### IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATA SHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, regulatory or other requirements.

These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

TI objects to and rejects any additional or different terms you may have proposed.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265 Copyright © 2023, Texas Instruments Incorporated