



HP-LAB

TEST REPORT

No.HP231018042001-1

Date: Oct 30, 2023

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Applicant: DOKE COMMUNICATION (HK) LIMITED

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

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

Sample Name: Smart phone
Main test/test model: BV9300 Pro
Trademark: Blackview
Manufacturer: Shenzhen DOKE Electronic Co., Ltd
Manufacturer Address: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.
Sample Received Date: Oct 18, 2023
Test Period: Oct 18, 2023 to Oct 30, 2023
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

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Issue Date: Oct 30, 2023





CONCLUSION :

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

2. Test Item Description And Photo List

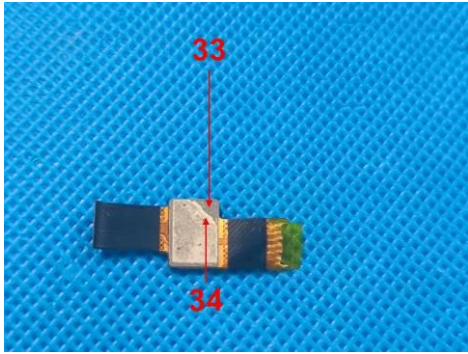



Sample No.	Description	Photograph
001	Silvery metal with grey plating (screw)	
002	Silvery metal with grey plating	
003	Silvery metal with grey plating	
004	Grey foam with glue	
005	Silvery metal with grey plating	
006	Silvery metal with orange plating	
007	Black soft plastic	



Sample No.	Description	Photograph
008	Black soft plastic	
009	Black plastic	
010	Silvery metal	
011	Silvery metal	
012	Silvery metal with grey plating	
013	Silvery metal with grey plating	
014	Black transparent glass	
015	Grey transparent glass	
016	Silvery plastic	
017	White plastic	



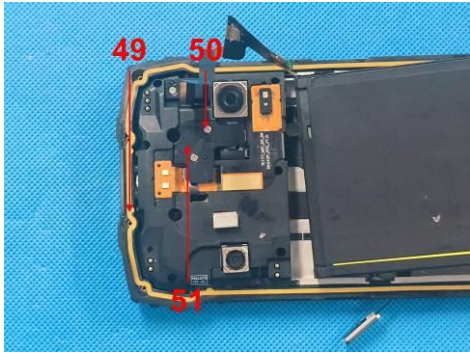

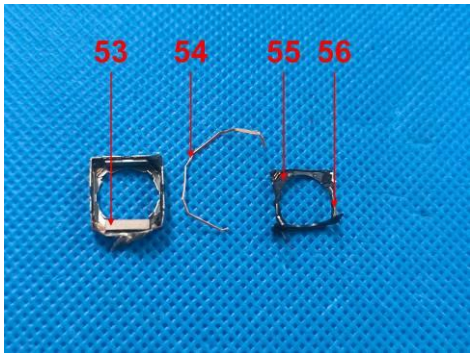
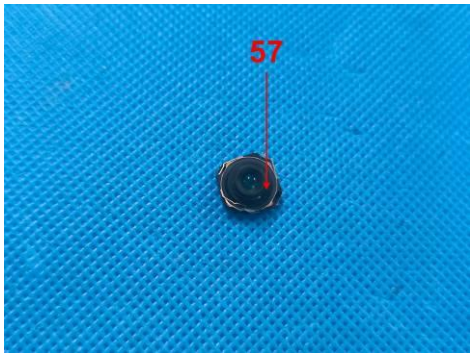
Sample No.	Description	Photograph
018	Silvery metal	
019	Black plastic	
020	Silvery plastic	
021	Transparent plastic	
022	Silvery plastic	
023	Silvery plastic	
024	White plastic	
025	White plastic	
026	White body	
027	Yellow FPC	
028	Silvery solder	
029	Black body	
030	Yellow plastic	
031	Yellow FPC	
032	Silvery solder	

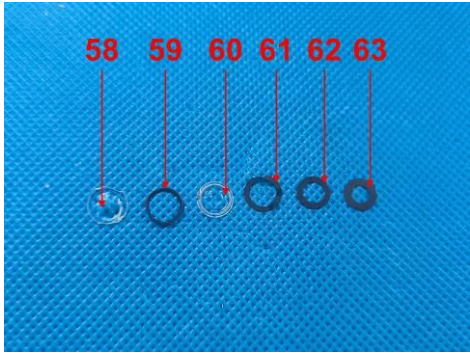
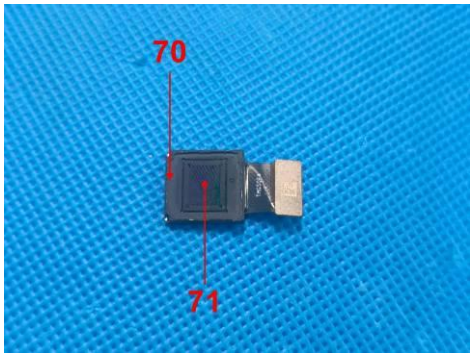
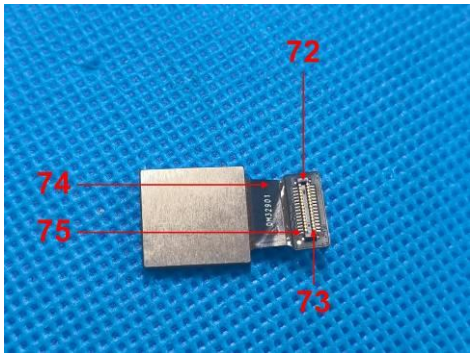
Sample No.	Description	Photograph
033	Silvery metal	
034	Translucency glue	
035	Transparent glass with black plating	
036	Transparent plastic	
037	Silvery metal with black plating	
038	Golden metal	



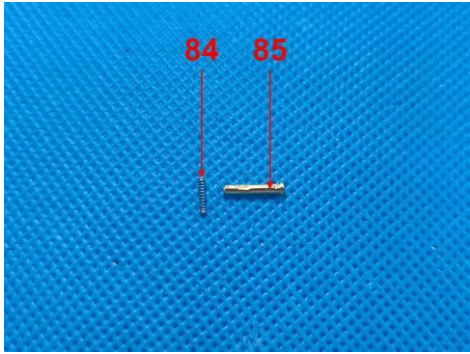
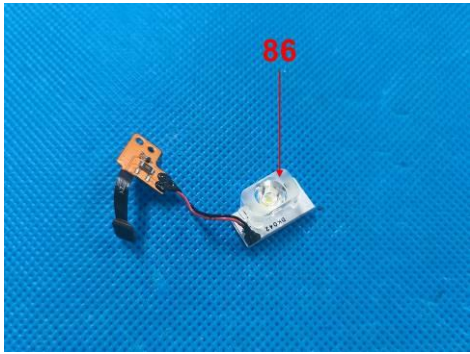
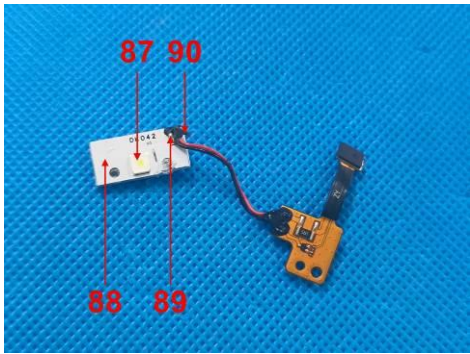
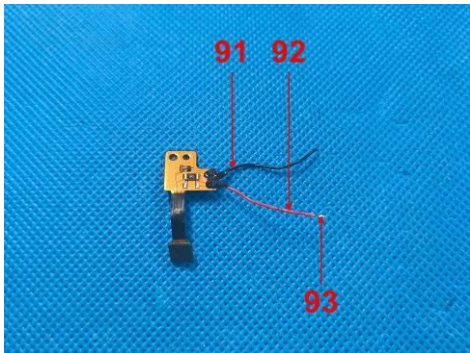
Sample No.	Description	Photograph
039	Golden metal (spring)	
040	Golden metal	
041	Black plastic	
042	White plastic	
043	Black FPC	
044	Black FPC	
045	Black FPC	
046	Black FPC	
047	Black plastic	
048	Black soft plastic	

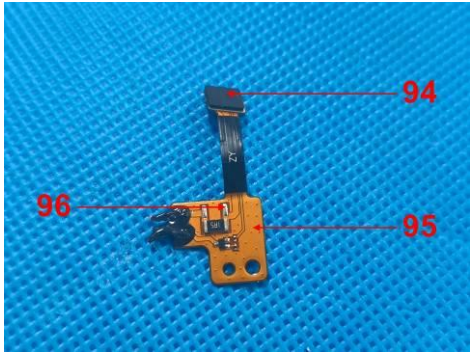
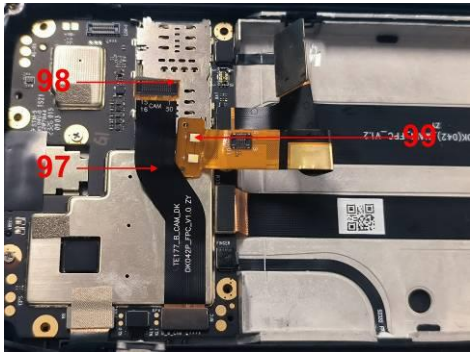
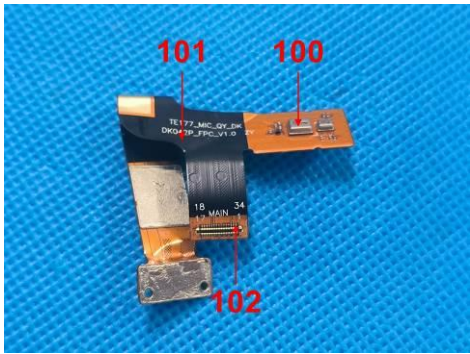



Sample No.	Description	Photograph
049	Yellow soft plastic	
050	Silvery metal (screw)	
051	Black plastic	
052	Silvery metal	
053	Silvery magnet	
054	Coppery metal	
055	Black plastic	
056	Silvery metal	
057	Black plastic	
058	Transparent plastic	

Sample No.	Description	Photograph
059	Black plastic	 <p>Photograph showing six samples (58-63) arranged in a row on a blue textured background. Red arrows point from the sample numbers to the corresponding samples.</p>
060	Transparent plastic	
061	Black plastic	
062	Black metal	
063	Black plastic	
064	Black plastic	
065	Transparent plastic	
066	Black plastic	
067	Transparent plastic	
068	Transparent plastic	
069	Transparent plastic	
070	Black plastic	 <p>Photograph showing two samples (70-71) on a blue textured background. Red arrows point from the sample numbers to the corresponding samples.</p>
071	Black body	
072	Grey plastic	 <p>Photograph showing five samples (72-75) on a blue textured background. Red arrows point from the sample numbers to the corresponding samples.</p>
073	Golden metal	
074	Black FPC	
075	Silvery solder	

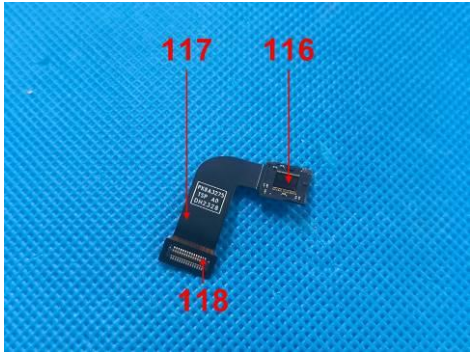
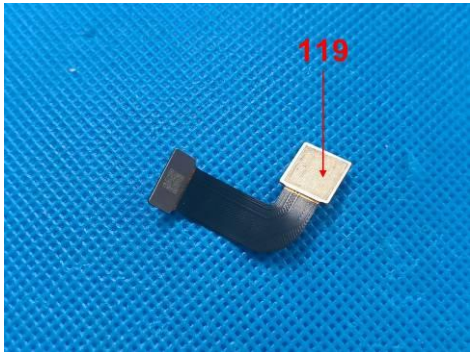
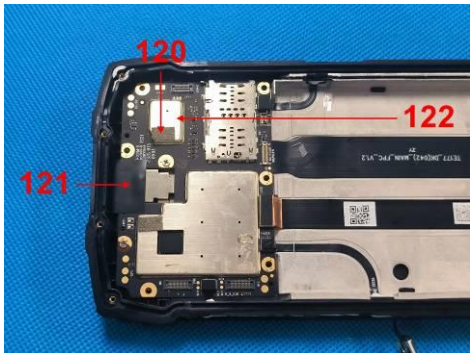

Sample No.	Description	Photograph
076	Silvery textile	
077	Grey foam	
078	Black plastic	
079	Yellow FPC	
080	Silvery solder	
081	Black soft plastic	
082	Black plastic	
083	Golden metal	

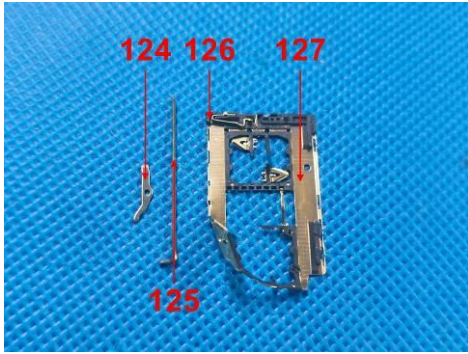
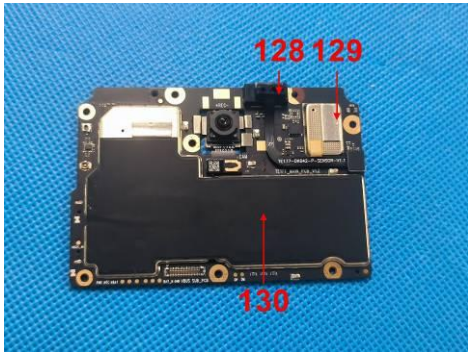
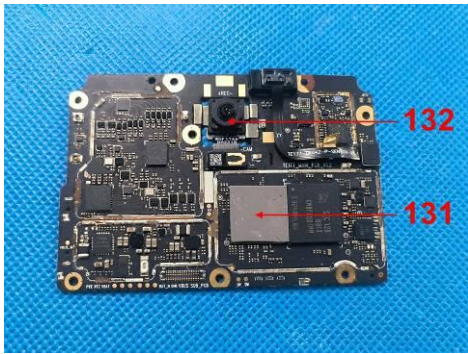
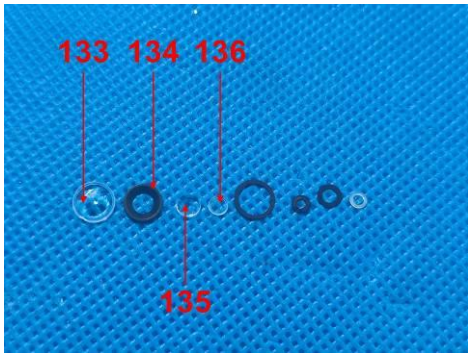
Sample No.	Description	Photograph
084	Silvery metal (spring)	
085	Golden metal	
086	Transparent plastic	
087	White/yellow body	
088	White PCB	
089	Silvery solder	
090	Black glue	
091	Black soft plastic (wire jacket)	
092	Red soft plastic (wire jacket)	
093	Silvery metal (wire core)	

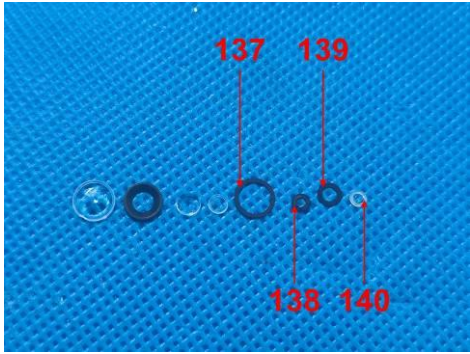
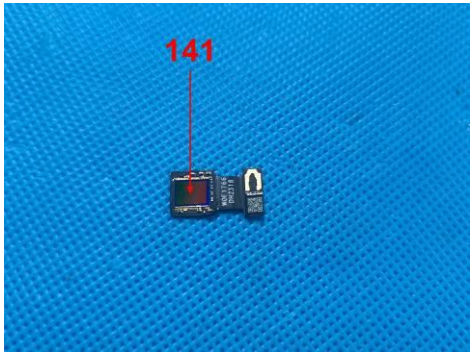
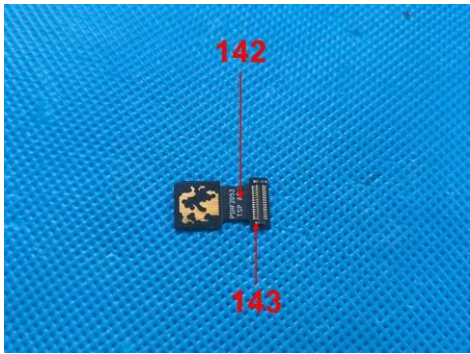

Sample No.	Description	Photograph
094	Black foam with glue	
095	Yellow FPC	
096	Silvery solder	
097	Black FPC	
098	Silvery solder	
099	Yellow body	
100	Silvery body (crystal)	
101	Black FPC	
102	Silvery solder	
103	Black plastic	



Sample No.	Description	Photograph
104	Transparent plastic	
105	Black plastic	
106	Transparent plastic	
107	Transparent plastic	
108	Black plastic	
109	Black plastic	
110	Transparent plastic	
111	Black metal	
112	Transparent plastic	
113	Silvery metal	
114	Black plastic	
115	Blue transparent glass	

Sample No.	Description	Photograph
116	Black body	
117	Black FPC	
118	Silvery solder	
119	Silvery textile with glue	
120	Silvery foam with glue	
121	Black plastic	
122	Silvery metal	
123	Silvery metal	

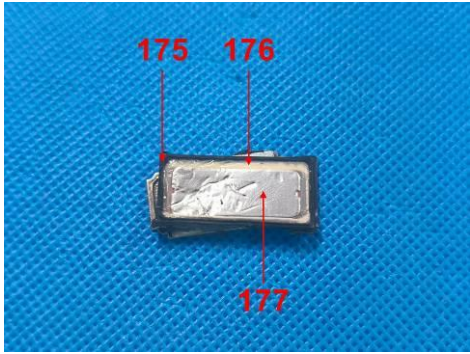
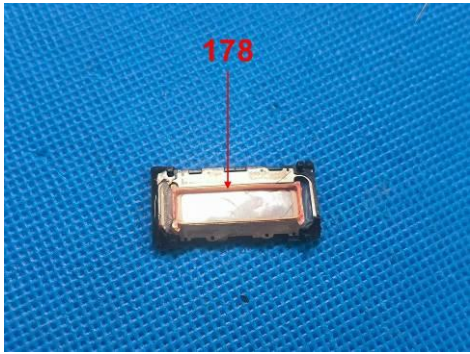
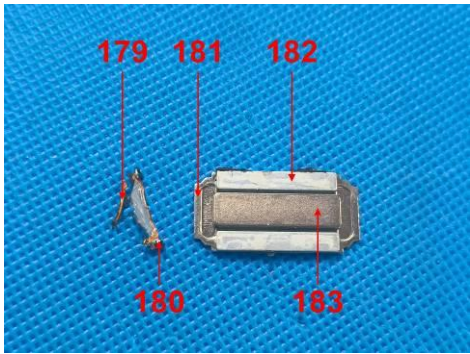
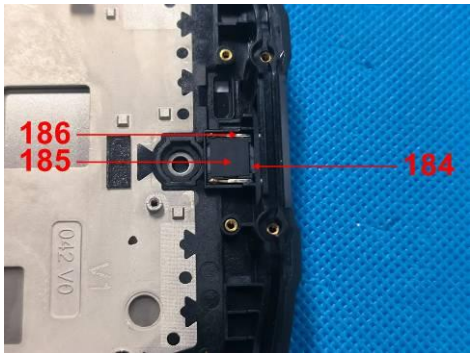
Sample No.	Description	Photograph
124	Silvery metal	
125	Silvery metal	
126	Grey plastic	
127	Silvery metal with golden plating	
128	Black soft plastic	
129	Silvery metal foil	
130	Coppery metal foil with black plating	
131	Grey silicone	
132	Black plastic	
133	Transparent plastic	
134	Black metal	
135	Transparent plastic	
136	Transparent plastic	

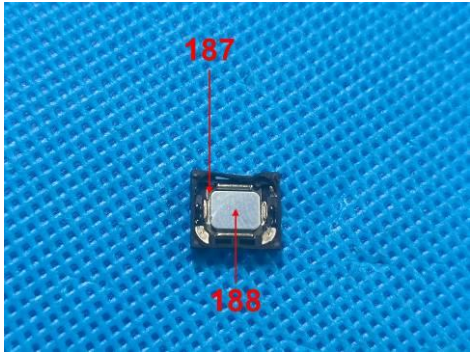
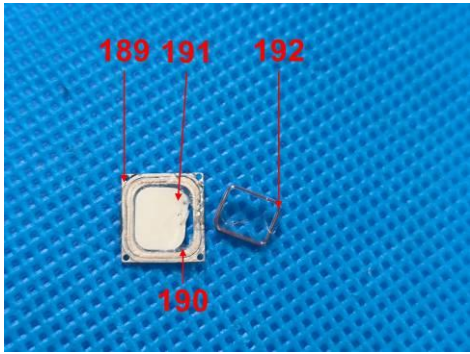
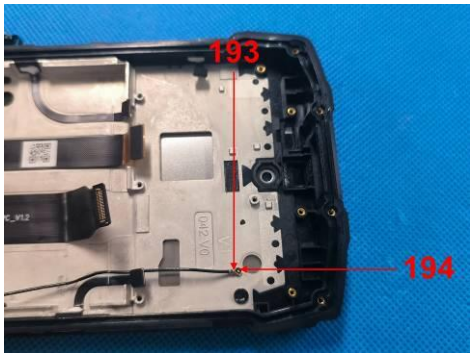
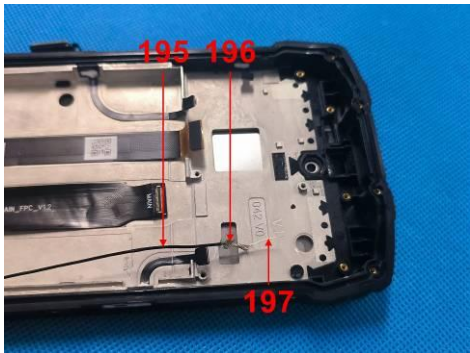
Sample No.	Description	Photograph
137	Black plastic	
138	Black plastic	
139	Black plastic	
140	Transparent plastic	
141	Black body	
142	Black FPC	
143	Silvery solder	
144	Black body	
145	Black FPC	
146	Silvery solder	







Sample No.	Description	Photograph
147	Black body	
148	Black body	
149	Black body	
150	Black body	
151	Silvery metal	
152	Black body	
153	Black body	
154	Grey body	
155	White body with black printing	
156	Silvery body (crystal)	
157	Black body	
158	Brown body	
159	Black body	
160	Grey plastic	
161	Golden metal	
162	Silvery metal	

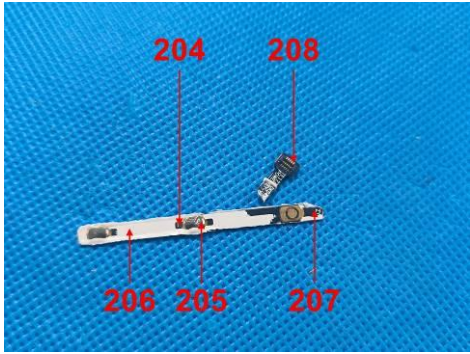


Sample No.	Description	Photograph
163	Black PCB	
164	Silvery solder	
165	Golden metal	
166	Silvery metal (spring)	
167	Golden metal	
168	Black plastic	

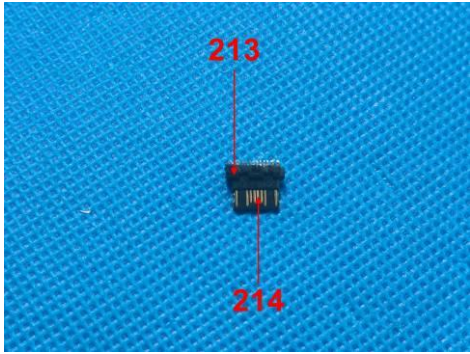
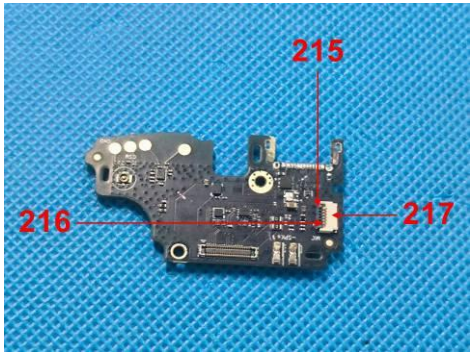
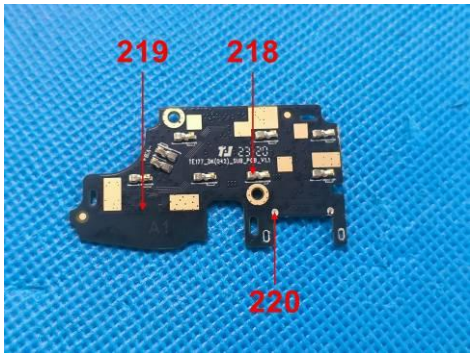

Sample No.	Description	Photograph
169	Black textile	
170	Black plastic	
171	Golden metal	
172	Silvery solder	
173	Red soft plastic (wire jacket)	
174	Black soft plastic (wire jacket)	

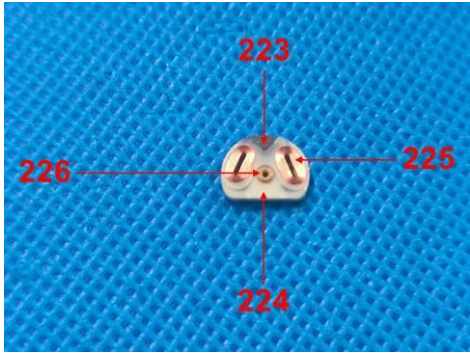
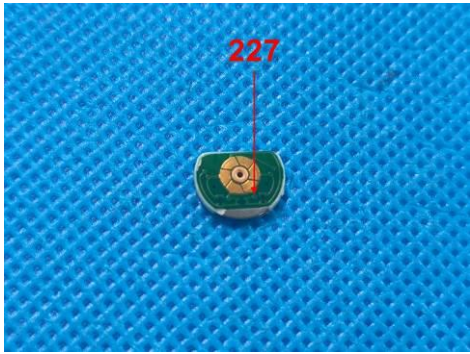
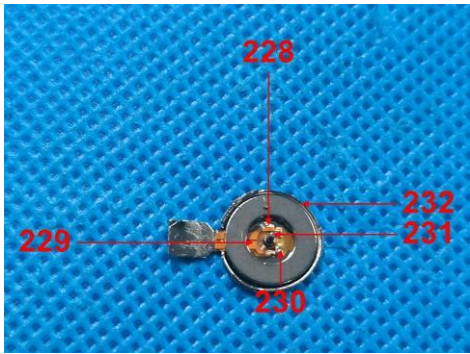

Sample No.	Description	Photograph
175	Black plastic	
176	Transparent plastic	
177	Silvery metal foil	
178	Coppery metal	
179	Yellow FPC	
180	Silvery solder	
181	Silvery metal	
182	Silvery magnet	
183	Silvery metal	
184	White textile with glue	
185	Black plastic	
186	Silvery metal with golden plating	

Sample No.	Description	Photograph
187	Silvery metal	
188	Silvery metal	
189	Silvery metal	
190	Transparent plastic	
191	White plastic	
192	Coppery metal	
193	Silvery metal with golden plating	
194	Black plastic	
195	Black soft plastic	
196	Silvery metal	
197	White soft plastic	

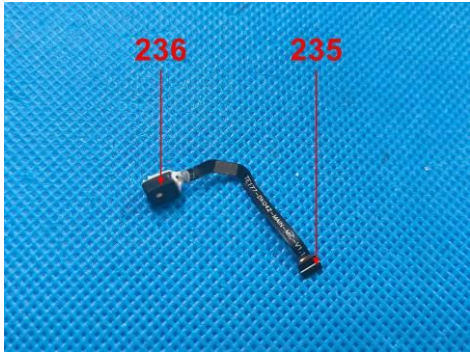
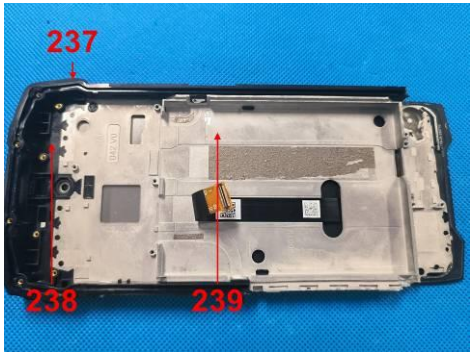


Sample No.	Description	Photograph
198	Black FPC	
199	Silvery solder	
200	Silvery metal with grey plating	
201	Black FPC	
202	Silvery solder	
203	White glue	

Sample No.	Description	Photograph
204	Transparent plastic	
205	Silvery metal	
206	White plastic	
207	Black FPC	
208	Silvery solder	
209	Black FPC	
210	Silvery solder	
211	White plastic with black printing	
212	Silvery metal	

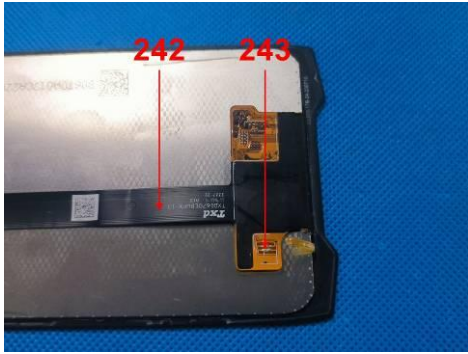


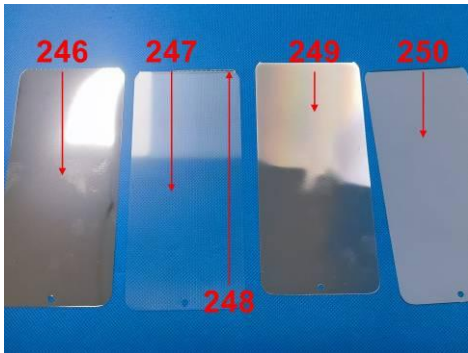
Sample No.	Description	Photograph
213	Black plastic	
214	Golden metal	
215	Grey plastic	
216	Silvery metal	
217	White plastic	
218	Silvery metal with golden plating	
219	Black PCB	
220	Silvery solder	
221	Black foam	
222	Silvery metal	

Sample No.	Description	Photograph
223	Silvery metal	
224	White plastic	
225	Coppery metal	
226	Golden metal	
227	Green PCB	
228	Silvery metal	
229	Yellow FPC	
230	Silvery solder	
231	Silvery metal	
232	Silvery metal	
233	Black soft plastic	
234	Black FPC	

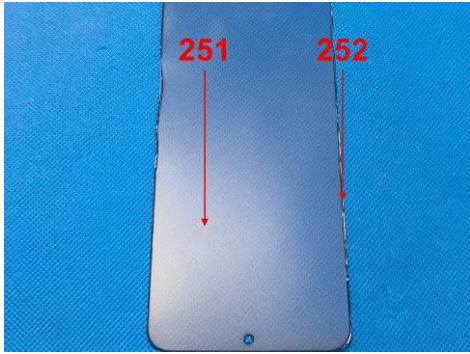
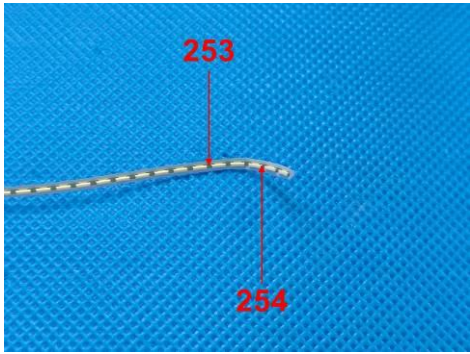
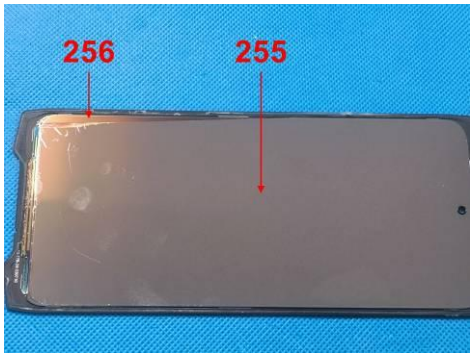
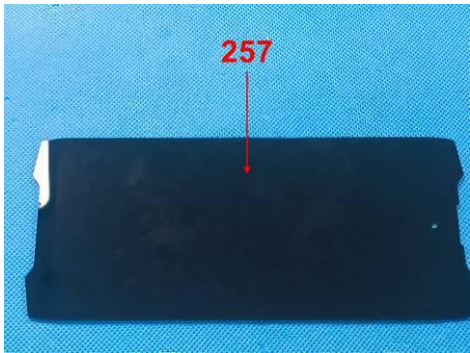


Sample No.	Description	Photograph
235	Black/white plastic	
236	Black soft plastic	
237	Black soft plastic	
238	Black plastic	
239	Silvery metal	
240	Transparent glass with black plating	
241	Green plastic	




Sample No.	Description	Photograph
242	Black FPC	
243	Silvery solder	
244	Silvery metal	
245	White plastic	
246	Silvery plastic	
247	Transparent plastic	
248	White plastic	
249	Silvery plastic	
250	White plastic	



Sample No.	Description	Photograph
251	Translucent plastic	
252	Black plastic	
253	Yellow FPC	
254	Silvery solder	
255	Silvery plastic	
256	Grey transparent glass	
257	Black transparent glass	



Sample No.	Description	Photograph
258	Golden metal	

3. Test Results

3.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

- Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
- Bromine Content Test

According to IEC 62321-3-1:2013, and Quantification analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 001	BL	BL	BL	BL	N.A.
Sample 002	BL	BL	BL	BL	N.A.
Sample 003	BL	BL	BL	BL	N.A.
Sample 004	BL	BL	BL	BL	BL
Sample 005	BL	BL	BL	BL	N.A.
Sample 006	BL	BL	BL	BL	N.A.
Sample 007	BL	BL	BL	BL	BL
Sample 008	BL	BL	BL	BL	BL
Sample 009	BL	BL	BL	BL	BL
Sample 010	BL	BL	BL	BL	N.A.
Sample 011	BL	BL	BL	BL	N.A.
Sample 012	BL	BL	BL	BL	N.A.
Sample 013	BL	BL	BL	BL	N.A.
Sample 014	BL	BL	BL	BL	BL
Sample 015	BL	BL	BL	BL	BL
Sample 016	BL	BL	BL	BL	BL
Sample 017	BL	BL	BL	BL	BL
Sample 018	BL	BL	BL	BL	N.A.
Sample 019	BL	BL	BL	BL	BL
Sample 020	BL	BL	BL	BL	BL
Sample 021	BL	BL	BL	BL	BL
Sample 022	BL	BL	BL	BL	BL
Sample 023	BL	BL	BL	BL	BL
Sample 024	BL	BL	BL	BL	BL
Sample 025	BL	BL	BL	BL	BL
Sample 026	BL	BL	BL	BL	BL



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 027	BL	BL	BL	BL	BL
Sample 028	BL	BL	BL	BL	N.A.
Sample 029	BL	BL	BL	BL	BL
Sample 030	BL	BL	BL	BL	BL
Sample 031	BL	BL	BL	BL	BL
Sample 032	BL	BL	BL	BL	N.A.
Sample 033	BL	BL	BL	BL	N.A.
Sample 034	BL	BL	BL	BL	BL
Sample 035	BL	BL	BL	BL	BL
Sample 036	BL	BL	BL	BL	BL
Sample 037	BL	BL	BL	BL	N.A.
Sample 038	OL^	OL^	BL	Inconclusive^	N.A.
Sample 039	OL^	BL	BL	Inconclusive^	N.A.
Sample 040	BL	OL^	BL	BL	N.A.
Sample 041	BL	BL	BL	BL	BL
Sample 042	BL	BL	BL	BL	BL
Sample 043	BL	BL	BL	BL	BL
Sample 044	BL	BL	BL	BL	BL
Sample 045	BL	BL	BL	BL	BL
Sample 046	BL	BL	BL	BL	BL
Sample 047	BL	BL	BL	BL	BL
Sample 048	BL	BL	BL	BL	BL
Sample 049	BL	BL	BL	BL	BL
Sample 050	BL	BL	BL	BL	N.A.
Sample 051	BL	BL	BL	BL	BL
Sample 052	BL	BL	BL	BL	N.A.
Sample 053	BL	BL	BL	BL	BL
Sample 054	BL	BL	BL	BL	N.A.
Sample 055	BL	BL	BL	BL	BL
Sample 056	BL	BL	BL	BL	N.A.
Sample 057	BL	BL	BL	BL	BL
Sample 058	BL	BL	BL	BL	BL
Sample 059	BL	BL	BL	BL	BL
Sample 060	BL	BL	BL	BL	BL
Sample 061	BL	BL	BL	BL	BL



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 062	BL	BL	BL	BL	N.A.
Sample 063	BL	BL	BL	BL	BL
Sample 064	BL	BL	BL	BL	BL
Sample 065	BL	BL	BL	BL	BL
Sample 066	BL	BL	BL	BL	BL
Sample 067	BL	BL	BL	BL	BL
Sample 068	BL	BL	BL	BL	BL
Sample 069	BL	BL	BL	BL	BL
Sample 070	BL	BL	BL	BL	BL
Sample 071	BL	BL	BL	BL	BL
Sample 072	BL	BL	BL	BL	BL
Sample 073	BL	BL	BL	BL	N.A.
Sample 074	BL	BL	BL	BL	BL
Sample 075	BL	BL	BL	BL	N.A.
Sample 076	BL	BL	BL	BL	BL
Sample 077	BL	BL	BL	BL	BL
Sample 078	BL	BL	BL	BL	BL
Sample 079	BL	BL	BL	BL	BL
Sample 080	BL	OL [^]	BL	BL	N.A.
Sample 081	BL	BL	BL	BL	BL
Sample 082	BL	BL	BL	BL	BL
Sample 083	BL	OL [^]	BL	BL	N.A.
Sample 084	BL	BL	BL	BL	N.A.
Sample 085	BL	OL [^]	BL	Inconclusive [^]	N.A.
Sample 086	BL	BL	BL	BL	BL
Sample 087	BL	BL	BL	BL	BL
Sample 088	BL	BL	BL	BL	BL
Sample 089	BL	BL	BL	BL	N.A.
Sample 090	BL	BL	BL	BL	BL
Sample 091	BL	BL	BL	BL	BL
Sample 092	BL	BL	BL	BL	BL
Sample 093	BL	BL	BL	BL	N.A.
Sample 094	BL	BL	BL	BL	BL
Sample 095	BL	BL	BL	BL	BL
Sample 096	BL	OL [^]	BL	BL	N.A.



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Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 097	BL	BL	BL	BL	BL
Sample 098	BL	BL	BL	BL	N.A.
Sample 099	BL	BL	BL	BL	BL
Sample 100	BL	BL	BL	BL	BL
Sample 101	BL	BL	BL	BL	BL
Sample 102	BL	BL	BL	BL	N.A.
Sample 103	BL	BL	BL	BL	BL
Sample 104	BL	BL	BL	BL	BL
Sample 105	BL	BL	BL	BL	BL
Sample 106	BL	BL	BL	BL	BL
Sample 107	BL	BL	BL	BL	BL
Sample 108	BL	BL	BL	BL	BL
Sample 109	BL	BL	BL	BL	BL
Sample 110	BL	BL	BL	BL	BL
Sample 111	BL	BL	BL	BL	N.A.
Sample 112	BL	BL	BL	BL	BL
Sample 113	BL	BL	BL	BL	N.A.
Sample 114	BL	BL	BL	BL	BL
Sample 115	BL	BL	BL	BL	BL
Sample 116	BL	BL	BL	BL	BL
Sample 117	BL	BL	BL	BL	BL
Sample 118	BL	BL	BL	BL	N.A.
Sample 119	BL	BL	BL	BL	BL
Sample 120	BL	BL	BL	BL	BL
Sample 121	BL	BL	BL	BL	BL
Sample 122	BL	BL	BL	BL	N.A.
Sample 123	BL	BL	BL	BL	N.A.
Sample 124	BL	BL	BL	BL	N.A.
Sample 125	BL	BL	BL	BL	N.A.
Sample 126	BL	BL	BL	BL	BL
Sample 127	BL	BL	BL	BL	N.A.
Sample 128	BL	BL	BL	BL	BL
Sample 129	BL	BL	BL	BL	N.A.
Sample 130	BL	BL	BL	BL	N.A.
Sample 131	BL	BL	BL	BL	BL



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 132	BL	BL	BL	BL	BL
Sample 133	BL	BL	BL	BL	BL
Sample 134	BL	BL	BL	BL	N.A.
Sample 135	BL	BL	BL	BL	BL
Sample 136	BL	BL	BL	BL	BL
Sample 137	BL	BL	BL	BL	BL
Sample 138	BL	BL	BL	BL	BL
Sample 139	BL	BL	BL	BL	BL
Sample 140	BL	BL	BL	BL	BL
Sample 141	BL	BL	BL	BL	BL
Sample 142	BL	BL	BL	BL	BL
Sample 143	BL	BL	BL	BL	N.A.
Sample 144	BL	BL	BL	BL	BL
Sample 145	BL	BL	BL	BL	BL
Sample 146	BL	BL	BL	BL	N.A.
Sample 147	BL	BL	BL	BL	BL
Sample 148	BL	BL	BL	BL	BL
Sample 149	BL	BL	BL	BL	BL
Sample 150	BL	BL	BL	BL	BL
Sample 151	BL	BL	BL	BL	N.A.
Sample 152	BL	BL	BL	BL	BL
Sample 153	BL	BL	BL	BL	BL
Sample 154	BL	BL	BL	BL	BL
Sample 155	BL	BL	BL	BL	BL
Sample 156	BL	BL	BL	BL	BL
Sample 157	BL	BL	BL	BL	BL
Sample 158	BL	BL	BL	BL	BL
Sample 159	BL	BL	BL	BL	BL
Sample 160	BL	BL	BL	BL	BL
Sample 161	BL	BL	BL	BL	N.A.
Sample 162	BL	BL	BL	BL	N.A.
Sample 163	BL	BL	BL	BL	BL
Sample 164	BL	BL	BL	BL	N.A.
Sample 165	OL^	OL^	BL	BL	N.A.
Sample 166	BL	BL	BL	BL	N.A.



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 167	OL [^]	OL [^]	BL	Inconclusive [^]	N.A.
Sample 168	BL	BL	BL	BL	BL
Sample 169	BL	BL	BL	BL	BL
Sample 170	BL	BL	BL	BL	BL
Sample 171	BL	OL [^]	BL	Inconclusive [^]	N.A.
Sample 172	BL	OL [^]	BL	BL	N.A.
Sample 173	BL	BL	BL	BL	BL
Sample 174	BL	BL	BL	BL	BL
Sample 175	BL	BL	BL	BL	BL
Sample 176	BL	BL	BL	BL	BL
Sample 177	BL	BL	BL	BL	N.A.
Sample 178	BL	BL	BL	BL	N.A.
Sample 179	BL	BL	BL	BL	BL
Sample 180	BL	OL [^]	BL	BL	N.A.
Sample 181	BL	BL	BL	BL	N.A.
Sample 182	BL	BL	BL	BL	BL
Sample 183	BL	BL	BL	BL	N.A.
Sample 184	BL	BL	BL	BL	BL
Sample 185	BL	BL	BL	BL	BL
Sample 186	BL	BL	BL	BL	N.A.
Sample 187	BL	BL	BL	BL	N.A.
Sample 188	BL	BL	BL	BL	N.A.
Sample 189	BL	BL	BL	BL	N.A.
Sample 190	BL	BL	BL	BL	BL
Sample 191	BL	BL	BL	BL	BL
Sample 192	BL	BL	BL	BL	N.A.
Sample 193	BL	BL	BL	BL	N.A.
Sample 194	BL	BL	BL	BL	BL
Sample 195	BL	BL	BL	BL	BL
Sample 196	BL	BL	BL	BL	N.A.
Sample 197	BL	BL	BL	BL	BL
Sample 198	BL	BL	BL	BL	BL
Sample 199	BL	BL	BL	BL	N.A.
Sample 200	BL	BL	BL	BL	N.A.
Sample 201	BL	BL	BL	BL	BL



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 202	BL	BL	BL	BL	N.A.
Sample 203	BL	BL	BL	BL	BL
Sample 204	BL	BL	BL	BL	BL
Sample 205	BL	BL	BL	BL	N.A.
Sample 206	BL	BL	BL	BL	BL
Sample 207	BL	BL	BL	BL	BL
Sample 208	BL	BL	BL	BL	N.A.
Sample 209	BL	BL	BL	BL	BL
Sample 210	BL	OL [^]	BL	BL	N.A.
Sample 211	BL	BL	BL	BL	BL
Sample 212	BL	BL	BL	Inconclusive [^]	N.A.
Sample 213	BL	BL	BL	BL	BL
Sample 214	BL	BL	BL	BL	N.A.
Sample 215	BL	BL	BL	BL	BL
Sample 216	BL	BL	BL	BL	N.A.
Sample 217	BL	BL	BL	BL	BL
Sample 218	BL	BL	BL	BL	N.A.
Sample 219	BL	BL	BL	BL	Inconclusive [^]
Sample 220	BL	BL	BL	BL	N.A.
Sample 221	BL	BL	BL	BL	BL
Sample 222	BL	BL	BL	BL	N.A.
Sample 223	BL	BL	BL	BL	N.A.
Sample 224	BL	BL	BL	BL	BL
Sample 225	BL	BL	BL	BL	N.A.
Sample 226	BL	BL	BL	BL	N.A.
Sample 227	BL	BL	BL	BL	BL
Sample 228	BL	BL	BL	BL	N.A.
Sample 229	BL	BL	BL	BL	BL
Sample 230	BL	BL	BL	BL	N.A.
Sample 231	BL	BL	BL	BL	N.A.
Sample 232	BL	BL	BL	BL	N.A.
Sample 233	BL	BL	BL	BL	BL
Sample 234	BL	BL	BL	BL	BL
Sample 235	BL	BL	BL	BL	BL
Sample 236	BL	BL	BL	BL	BL



Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 237	BL	BL	BL	BL	BL
Sample 238	BL	BL	BL	BL	BL
Sample 239	BL	BL	BL	BL	N.A.
Sample 240	BL	BL	BL	BL	BL
Sample 241	BL	BL	BL	BL	BL
Sample 242	BL	BL	BL	BL	BL
Sample 243	BL	BL	BL	BL	N.A.
Sample 244	BL	BL	BL	BL	N.A.
Sample 245	BL	BL	BL	BL	BL
Sample 246	BL	BL	BL	BL	BL
Sample 247	BL	BL	BL	BL	BL
Sample 248	BL	BL	BL	BL	BL
Sample 249	BL	BL	BL	BL	BL
Sample 250	BL	BL	BL	BL	BL
Sample 251	BL	BL	BL	BL	BL
Sample 252	BL	BL	BL	BL	BL
Sample 253	BL	BL	BL	BL	BL
Sample 254	BL	BL	BL	BL	N.A.
Sample 255	BL	BL	BL	BL	BL
Sample 256	BL	BL	BL	BL	BL
Sample 257	BL	BL	BL	BL	BL
Sample 258	BL	OL [^]	BL	Inconclusive [^]	N.A.

Note:

1. All Concentrations express in “mg/kg” (milligram per kilogram), mg/kg ~ ppm
2. “OL” denotes “over limit”
3. “BL” denotes “below limit”
4. “N.A.” denotes “Not Applicable”
5. “Inconclusive” denotes result is intermediate between “OL” and “BL”
6. “[^]”denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 3.2 and 3.3.



XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	N.A.
Polymers	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (300-3\sigma) < X$
Composite material	$BL \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	$BL \leq (250-3\sigma) < X$

**3.2 Test for Heavy Metals**

– Lead, Cadmium, Hexavalent Chromium and Mercury Tests according to IEC 62321-4:2013+A1:2017 & IEC 62321-5:2013 & IEC 62321-7-1:2015& IEC 62321-7-2:2017, Analysis was conducted by ICP-OES, UV-VIS, AAS.

Element	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [µg/cm ²]	Hexavalent Chromium [mg/kg]
Detection Limit	5	5	5	0.10	5
Limit	100	1000	1000	*	1000
Sample 038	20	34130Φ	/	N.D.	/
Sample 039	N.D.	/	/	N.D.	/
Sample 040	/	25179Φ	/	/	/
Sample 080	/	234	/	/	/
Sample 083	/	27692Φ	/	/	/
Sample 085	/	30551Φ	/	N.D.	/
Sample 096	/	462	/	/	/
Sample 165	21	28362Φ	/	/	/
Sample 167	34	33277Φ	/	N.D.	/
Sample 171	/	63	/	N.D.	/
Sample 172	/	99	/	/	/
Sample 180	/	559	/	/	/
Sample 210	/	278	/	/	/
Sample 212	/	/	/	N.D.	/
Sample 258	/	25306Φ	/	N.D.	/



Note:

1. All Concentrations express in "mg/kg"(milligram per kilogram), mg/kg ~ ppm.
2. "N.D." = "Not Detected".
- 3.*= a. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is higher than 0.13 µg/cm², the sample is positive, that is, contains hexavalent chromium;
b. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is N.D.(less than 0.10µg/cm²), the sample is negative, that is, no hexavalent chromium is detected;
c. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is between 0.10µg/cm² and 0.13µg/cm², it is not possible to directly determine whether hexavalent chromium is detected.

Surface differences of samples from different individuals may affect the determination results:

Since the storage condition and production date of the sample are not known, the test result of the sample can only represent the state of the sample containing hexavalent chromium at the time of the test.

Positive = result be regarded as not comply with RoHS requirement

Negative = result be regarded as comply with RoHS requirement

- 4."Φ"=the sample 038, sample 040, sample 083, sample 085, sample 165, sample 167, sample 258 are copper alloy.The lead content which is under 4% is exempted from the requirement of directive 2011/65/EU(RoHS)Annex III 6(c).



3.3 Test for Flame retardants

- Test method: According to IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5mg/kg]

Test Item		Result [mg/kg]	RoHS Requirement [mg/kg]
		Sample 219	
PBBs	Monobromobiphenyl	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	
	Tribromobiphenyl	< 5	
	Tetrabromobiphenyl	< 5	
	Pentabromobiphenyl	< 5	
	Hexabromobiphenyl	< 5	
	Heptabromobiphenyl	< 5	
	Octabromobiphenyl	< 5	
	Nonabromobiphenyl	< 5	
	Decabromobiphenyl	< 5	
	Sum of PBBs	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	
	Tribromodiphenyl Ether	< 5	
	Tetrabromodiphenyl Ether	< 5	
	Pentabromodiphenyl Ether	< 5	
	Hexabromodiphenyl Ether	< 5	
	Heptabromodiphenyl Ether	< 5	
	Octabromodiphenyl Ether	< 5	
	Nonabromodiphenyl Ether	< 5	
	Decabromodiphenyl Ether	< 5	
	Sum of PBDEs	< 5	

Note:

1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm.
2. "<" denotes less than



3.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863

Test method: According to IEC 62321-8:2017; Analysis was conducted by GC-MS.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 004	N.D.	N.D.	N.D.	N.D.
Sample 007	N.D.	N.D.	N.D.	N.D.
Sample 008	N.D.	N.D.	N.D.	N.D.
Sample 009	N.D.	N.D.	N.D.	N.D.
Sample 014	N.D.	N.D.	N.D.	N.D.
Sample 015	N.D.	N.D.	N.D.	N.D.
Sample 016	N.D.	N.D.	N.D.	N.D.
Sample 017	N.D.	N.D.	N.D.	N.D.
Sample 019	N.D.	N.D.	N.D.	N.D.
Sample 020	N.D.	N.D.	N.D.	N.D.
Sample 021	N.D.	N.D.	N.D.	N.D.
Sample 022	N.D.	N.D.	N.D.	N.D.
Sample 023	N.D.	N.D.	N.D.	N.D.
Sample 024	N.D.	N.D.	N.D.	N.D.
Sample 025	N.D.	N.D.	N.D.	N.D.
Sample 026	N.D.	N.D.	N.D.	N.D.
Sample 027	N.D.	N.D.	N.D.	N.D.
Sample 029	N.D.	N.D.	N.D.	N.D.
Sample 030	N.D.	N.D.	N.D.	N.D.
Sample 031	N.D.	N.D.	N.D.	N.D.
Sample 034	N.D.	N.D.	N.D.	N.D.
Sample 035	N.D.	N.D.	N.D.	N.D.
Sample 036	N.D.	N.D.	N.D.	N.D.
Sample 041	N.D.	N.D.	N.D.	N.D.
Sample 042	N.D.	N.D.	N.D.	N.D.
Sample 043	N.D.	N.D.	N.D.	N.D.
Sample 044	N.D.	N.D.	N.D.	N.D.
Sample 045	N.D.	N.D.	N.D.	N.D.
Sample 046	N.D.	N.D.	N.D.	N.D.
Sample 047	N.D.	N.D.	N.D.	N.D.



Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 048	N.D.	N.D.	N.D.	N.D.
Sample 049	N.D.	N.D.	N.D.	N.D.
Sample 051	N.D.	N.D.	N.D.	N.D.
Sample 053	N.D.	N.D.	N.D.	N.D.
Sample 055	N.D.	N.D.	N.D.	N.D.
Sample 057	N.D.	N.D.	N.D.	N.D.
Sample 058	N.D.	N.D.	N.D.	N.D.
Sample 059	N.D.	N.D.	N.D.	N.D.
Sample 060	N.D.	N.D.	N.D.	N.D.
Sample 061	N.D.	N.D.	N.D.	N.D.
Sample 063	N.D.	N.D.	N.D.	N.D.
Sample 064	N.D.	N.D.	N.D.	N.D.
Sample 065	N.D.	N.D.	N.D.	N.D.
Sample 066	N.D.	N.D.	N.D.	N.D.
Sample 067	N.D.	N.D.	N.D.	N.D.
Sample 068	N.D.	N.D.	N.D.	N.D.
Sample 069	N.D.	N.D.	N.D.	N.D.
Sample 070	N.D.	N.D.	N.D.	N.D.
Sample 071	N.D.	N.D.	N.D.	N.D.
Sample 072	N.D.	N.D.	N.D.	N.D.
Sample 074	N.D.	N.D.	N.D.	N.D.
Sample 076	N.D.	N.D.	N.D.	N.D.
Sample 077	N.D.	N.D.	N.D.	N.D.
Sample 078	N.D.	N.D.	N.D.	N.D.
Sample 079	N.D.	N.D.	N.D.	N.D.
Sample 081	N.D.	N.D.	N.D.	N.D.
Sample 082	N.D.	N.D.	N.D.	N.D.
Sample 086	N.D.	N.D.	N.D.	N.D.
Sample 087	N.D.	N.D.	N.D.	N.D.
Sample 088	N.D.	N.D.	N.D.	N.D.
Sample 090	N.D.	N.D.	N.D.	N.D.
Sample 091	N.D.	N.D.	N.D.	N.D.
Sample 092	N.D.	N.D.	N.D.	N.D.



Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 094	N.D.	N.D.	N.D.	N.D.
Sample 095	N.D.	N.D.	N.D.	N.D.
Sample 097	N.D.	N.D.	N.D.	N.D.
Sample 099	N.D.	N.D.	N.D.	N.D.
Sample 100	N.D.	N.D.	N.D.	N.D.
Sample 101	N.D.	N.D.	N.D.	N.D.
Sample 103	N.D.	N.D.	N.D.	N.D.
Sample 104	N.D.	N.D.	N.D.	N.D.
Sample 105	N.D.	N.D.	N.D.	N.D.
Sample 106	N.D.	N.D.	N.D.	N.D.
Sample 107	N.D.	N.D.	N.D.	N.D.
Sample 108	N.D.	N.D.	N.D.	N.D.
Sample 109	N.D.	N.D.	N.D.	N.D.
Sample 110	N.D.	N.D.	N.D.	N.D.
Sample 112	N.D.	N.D.	N.D.	N.D.
Sample 114	N.D.	N.D.	N.D.	N.D.
Sample 115	N.D.	N.D.	N.D.	N.D.
Sample 116	N.D.	N.D.	N.D.	N.D.
Sample 117	N.D.	N.D.	N.D.	N.D.
Sample 119	N.D.	N.D.	N.D.	N.D.
Sample 120	N.D.	N.D.	N.D.	N.D.
Sample 121	N.D.	N.D.	N.D.	N.D.
Sample 126	N.D.	N.D.	N.D.	N.D.
Sample 128	N.D.	N.D.	N.D.	N.D.
Sample 131	N.D.	N.D.	N.D.	N.D.
Sample 132	N.D.	N.D.	N.D.	N.D.
Sample 133	N.D.	N.D.	N.D.	N.D.
Sample 135	N.D.	N.D.	N.D.	N.D.
Sample 136	N.D.	N.D.	N.D.	N.D.
Sample 137	N.D.	N.D.	N.D.	N.D.
Sample 138	N.D.	N.D.	N.D.	N.D.
Sample 139	N.D.	N.D.	N.D.	N.D.
Sample 140	N.D.	N.D.	N.D.	N.D.



Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 141	N.D.	N.D.	N.D.	N.D.
Sample 142	N.D.	N.D.	N.D.	N.D.
Sample 144	N.D.	N.D.	N.D.	N.D.
Sample 145	N.D.	N.D.	N.D.	N.D.
Sample 147	N.D.	N.D.	N.D.	N.D.
Sample 148	N.D.	N.D.	N.D.	N.D.
Sample 149	N.D.	N.D.	N.D.	N.D.
Sample 150	N.D.	N.D.	N.D.	N.D.
Sample 152	N.D.	N.D.	N.D.	N.D.
Sample 153	N.D.	N.D.	N.D.	N.D.
Sample 154	N.D.	N.D.	N.D.	N.D.
Sample 155	N.D.	N.D.	N.D.	N.D.
Sample 156	N.D.	N.D.	N.D.	N.D.
Sample 157	N.D.	N.D.	N.D.	N.D.
Sample 158	N.D.	N.D.	N.D.	N.D.
Sample 159	N.D.	N.D.	N.D.	N.D.
Sample 160	N.D.	N.D.	N.D.	N.D.
Sample 163	N.D.	N.D.	N.D.	N.D.
Sample 168	N.D.	N.D.	N.D.	N.D.
Sample 169	N.D.	N.D.	N.D.	N.D.
Sample 170	N.D.	N.D.	N.D.	N.D.
Sample 173	N.D.	N.D.	N.D.	N.D.
Sample 174	N.D.	N.D.	N.D.	N.D.
Sample 175	N.D.	N.D.	N.D.	N.D.
Sample 176	N.D.	N.D.	N.D.	N.D.
Sample 179	N.D.	N.D.	N.D.	N.D.
Sample 182	N.D.	N.D.	N.D.	N.D.
Sample 184	N.D.	N.D.	N.D.	N.D.
Sample 185	N.D.	N.D.	N.D.	N.D.
Sample 190	N.D.	N.D.	N.D.	N.D.
Sample 191	N.D.	N.D.	N.D.	N.D.
Sample 194	N.D.	N.D.	N.D.	N.D.
Sample 195	N.D.	N.D.	N.D.	N.D.



Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 197	N.D.	N.D.	N.D.	N.D.
Sample 198	N.D.	N.D.	N.D.	N.D.
Sample 201	N.D.	N.D.	N.D.	N.D.
Sample 203	N.D.	N.D.	N.D.	N.D.
Sample 204	N.D.	N.D.	N.D.	N.D.
Sample 206	N.D.	N.D.	N.D.	N.D.
Sample 207	N.D.	N.D.	N.D.	N.D.
Sample 209	N.D.	N.D.	N.D.	N.D.
Sample 211	N.D.	N.D.	N.D.	N.D.
Sample 213	N.D.	N.D.	N.D.	N.D.
Sample 215	N.D.	N.D.	N.D.	N.D.
Sample 217	N.D.	N.D.	N.D.	N.D.
Sample 219	N.D.	N.D.	N.D.	N.D.
Sample 221	N.D.	N.D.	N.D.	N.D.
Sample 224	N.D.	N.D.	N.D.	N.D.
Sample 227	N.D.	N.D.	N.D.	N.D.
Sample 229	N.D.	N.D.	N.D.	N.D.
Sample 233	N.D.	N.D.	N.D.	N.D.
Sample 234	N.D.	N.D.	N.D.	N.D.
Sample 235	N.D.	N.D.	N.D.	N.D.
Sample 236	N.D.	N.D.	N.D.	N.D.
Sample 237	N.D.	N.D.	N.D.	N.D.
Sample 238	N.D.	N.D.	N.D.	N.D.
Sample 240	N.D.	N.D.	N.D.	N.D.
Sample 241	N.D.	N.D.	N.D.	N.D.
Sample 242	N.D.	N.D.	N.D.	N.D.
Sample 245	N.D.	N.D.	N.D.	N.D.
Sample 246	N.D.	N.D.	N.D.	N.D.
Sample 247	N.D.	N.D.	N.D.	N.D.
Sample 248	N.D.	N.D.	N.D.	N.D.
Sample 249	N.D.	N.D.	N.D.	N.D.
Sample 250	N.D.	N.D.	N.D.	N.D.
Sample 251	N.D.	N.D.	N.D.	N.D.



Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	50	50	50	50
Limit	1000	1000	1000	1000
Sample 252	N.D.	N.D.	N.D.	N.D.
Sample 253	N.D.	N.D.	N.D.	N.D.
Sample 255	N.D.	N.D.	N.D.	N.D.
Sample 256	N.D.	N.D.	N.D.	N.D.
Sample 257	N.D.	N.D.	N.D.	N.D.

Note:

1. All Concentrations express in "mg/kg"(milligram per kilogram), mg/kg ~ ppm.
2. "N.D." = "Not Detected".

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

Photo of the Submitted Sample



*** End of Report ***