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**Client:** ORIENTAL RECREATIONAL PRODUCTS (SHANGHAI) CO., LTD.

**Contact Information:** No. 1699 Da Ye Road, Wu Qiao, Fengxian, Shanghai, P.R. China

**Identification/  
Model No(s):** BUBBLE SPA, JET&BUBBLE SPA  
Please refer to page 2.

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2024-10-18, 2024-10-28, 2024-11-05

**Testing Period:** 2024-10-18 to 2024-11-07

**Place of testing:** Chemical laboratory Shanghai

**Test Specification:**

**Test result:**

Customer's requirement:

1. Screening Test by XRF Spectroscopy  
Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB)  
and Polybrominated diphenyl ethers (PBDE)  
Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl)  
phthalate (DEHP), Diisobutyl phthalate (DIBP)  
According to RoHS (recast): Restriction of the Use of Certain Hazardous  
Substances in Electrical and Electronic Equipment, 2011/65/EU Annex II and  
its amendment.

PASS

**Other information:**

Please be kindly noted test points were selected according to client's requirement.

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



2024-11-12

Ryan Chen / Department Manager

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.  
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report  
does not entitle to carry any safety mark on this or similar products.  
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for  
test results are applicable throughout this test report.

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LSYYY-XX,LRYYY-XX,LSYYYU-XX,LRYYYU-XX,C-XXYYY,U-XXYYY,U-XXYYYW,M-XXYYY,M-XXYYYW,F-XXYYY,F-XXYYYW,F-XXYYYF,F-XXYYYWP,F-XXYYYE,F-XXYYYWE,P-XXYYY

XX is a combination of any two letters A-Z

(example:NA,GR,GL,TE,BE,OM,ST,FE,ME,MO,NE,AG,AU,VT,RB,BR,CA,OT,NA,DU,TU,TR,PO,SH,EX,VE,OS,AM,SA,HA,XX),represents the unique name of each product which corresponds to a colour/print and shape.

YYY is a combination of any three numbers

0-9(example:022,042,062,082,043,063,083...),

represents the size of the pool and version of the electric cabinet.

W is optional, represents that the SPA is with Wi-Fi control function;

P is optional, represents the big size of the pool;

E is optional, represents the environmentally friendly packaging.

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**Material List:**

Item: BUBBLE SPA, JET&amp;BUBBLE SPA

Please refer to page 2.

Material No.	Material	Color	Location
A001	Plastic	transparent	refer to photo
A002	Plastic	black	refer to photo
A003	Plastic	white	refer to photo
A004	Plastic	light blue	refer to photo
A005	Plastic + coating	light orange-yellow	refer to photo
A006	Plastic	black	refer to photo
A007	Metal	black	refer to photo
A008	Plastic	brown	refer to photo
A009	Metal	silver	refer to photo
A010	Plastic + coating	dark grey	refer to photo
A011	Plastic	dark grey	refer to photo
A012	Plastic	light blue	refer to photo
A013	Plastic	white	refer to photo
A014	Plastic	black	refer to photo
A015	Plastic	dark grey	refer to photo
A016	Plastic	white	refer to photo
A017	Rubber	black	refer to photo
A018	Rubber	white	refer to photo
A020	Metal	golden	refer to photo
A021	Metal	silver	refer to photo
A022	Plastic + coating	golden	refer to photo
A023	Metal + coating	light orange-yellow	refer to photo
A024	Plastic	white	refer to photo
A025	Plastic	dark grey	refer to photo
A026	Metal + coating	black	refer to photo
A027	Plastic	white	refer to photo
A028	Plastic + printing + adhesive	transparent+black	refer to photo
A029	Plastic + printing	dark grey-white	refer to photo

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A030	Plastic	black	refer to photo
A031	Electronic components	black	refer to photo
A032	Electronic components	black	refer to photo
A033	Electronic components	black	refer to photo
A034	Electronic components	black	refer to photo
A035	Electronic components	transparent-yellow	refer to photo
A036	Electronic components	light yellow	refer to photo
A037	Electronic components	orange-yellow	refer to photo
A038	Electronic components	black	refer to photo
A039	Metal	silver	refer to photo
A040	Metal	silver	refer to photo
A041	Electronic components	black	refer to photo
A042	Electronic components	black	refer to photo
A043	Metal	golden	refer to photo
A044	PCB board	cyan-blue	refer to photo
A045	PCB board	dark cyan-blue	refer to photo
A046	Metal	silver	refer to photo
A047	Plastic	black	refer to photo
A048	Ceramic	golden-white	refer to photo
A049	Metal	silver	refer to photo
A050	Metal	silver	refer to photo
A051	Plastic	transparent	refer to photo
A052	Plastic + printing	white/black	refer to photo
A053	Plastic	white	refer to photo
A054	Metal	silver	refer to photo
A055	Plastic + printing	black/yellow	refer to photo
A056	Metal	silver	refer to photo
A057	Electronic components	-	refer to photo
A058	Plastic	black	refer to photo
A059	Metal	silver	refer to photo
A060	Plastic	black	refer to photo
A061	Plastic	black	refer to photo

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A062	Plastic + printing + adhesive	silver-black	refer to photo
A063	Plastic + printing	black/white	refer to photo
A064	Paper + adhesive	white	refer to photo
A065	Metal	silver	refer to photo
A066	Plastic	black	refer to photo
A067	Plastic	transparent-yellow	refer to photo
A068	Metal	light orange-brown	refer to photo
A069	Metal	silver	refer to photo
A070	Plastic	black	refer to photo
A071	Plastic	pink-red	refer to photo
A072	Plastic	black	refer to photo
A073	Plastic	dark green-cyan	refer to photo
A074	Plastic	white	refer to photo
A075	Plastic	black	refer to photo
A076	Metal	silver	refer to photo
A077	Plastic	black	refer to photo
A078	Metal	silver	refer to photo
A079	Metal	silver	refer to photo
A080	Metal	silver	refer to photo
A081	Electronic components	black	refer to photo
A082	Glue	yellow-green	refer to photo
A083	Plastic + printing	black/white	refer to photo
A084	Plastic	white	refer to photo
A085	Plastic	black	refer to photo
A086	Plastic	black	refer to photo
A087	Foam material	white	refer to photo
A088	Plastic	grey	refer to photo
A089	Paper	white	refer to photo
A090	Plastic	grey	refer to photo
A091	Plastic	black	refer to photo
A092	Plastic	black	refer to photo
A093	Plastic	black	refer to photo

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A094	Plastic	red	refer to photo
A095	Plastic	black	refer to photo
A096	Plastic	black	refer to photo
A097	Plastic	black	refer to photo
A098	Metal	silver	refer to photo
A099	Plastic	white	refer to photo
A100	Metal	dark red-orange	refer to photo
A101	Plastic	grey	refer to photo
A102	Plastic	white	refer to photo
A103	Plastic	grey	refer to photo
A104	Plastic	dark grey	refer to photo
A105	Plastic + printing + adhesive	multi color	refer to photo
A106	Plastic	black	refer to photo
A107	Metal	silver	refer to photo
A108	Electronic components	transparent	refer to photo
A109	Metal	silver	refer to photo
A110	Metal	silver	refer to photo
A111	Electronic components	black	refer to photo
A112	Electronic components	grey	refer to photo
A113	PCB board	dark green-cyan	refer to photo
A114	Metal	silver	refer to photo
A116	Plastic	black	refer to photo
A117	Textile	black	refer to photo
A118	Textile	black	refer to photo
A119	Metal	silver	refer to photo
A120	Plastic	black	refer to photo
A121	Textile	black	refer to photo
A122	Textile	white	refer to photo
A123	Foam material	grey	refer to photo
A124	Plastic	transparent	refer to photo
A125	Metal + coating	white	refer to photo
A126	Electronic components	white	refer to photo

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A127	Electronic components	black	refer to photo
A128	Plastic	dark grey	refer to photo
A130	Plastic	white-blue	refer to photo
A131	Glue	transparent	refer to photo
A132	Metal	silver	refer to photo
A133	Electronic components	black	refer to photo
A134	Electronic components	black	refer to photo
A135	Metal	silver	refer to photo
A136	PCB board	dark green	refer to photo
A137	Plastic	orange	refer to photo
A138	Plastic	cyan-blue	refer to photo
A139	Metal	dark red-orange	refer to photo
A140	Plastic	black	refer to photo
A141	Plastic	black	refer to photo
A142	Plastic	black	refer to photo
A143	Metal	silver	refer to photo
A144	Plastic + printing	grey/black	refer to photo
A145	Plastic	transparent	refer to photo
A146	Plastic	grey	refer to photo
A147	Plastic	transparent	refer to photo
A148	Plastic	dark grey	refer to photo
A150	Plastic	transparent	refer to photo
A151	Textile	white	refer to photo
A152	Plastic	transparent	refer to photo
A153	Plastic	white	refer to photo
A154	Plastic	dark grey	refer to photo
A155	Foam material	white	refer to photo
A156	Plastic + coating	beige	refer to photo
A157	Plastic + coating	black	refer to photo
A158	Plastic	black	refer to photo
A159	Plastic	dark grey	refer to photo
A160	Plastic	grey	refer to photo

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A161	Plastic	dark grey	refer to photo
A162	Plastic	transparent	refer to photo
A163	Plastic	white	refer to photo
A164	Plastic	grey	refer to photo
A165	Metal	silver	refer to photo
A166	Plastic	white	refer to photo
A167	Plastic	white	refer to photo
A168	Metal	silver	refer to photo
A169	Plastic + coating	grey	refer to photo
A170	Plastic	transparent	refer to photo
A172	Plastic	dark grey	refer to photo
A173	Plastic	black	refer to photo
A174	Metal	black	refer to photo
A175	Metal	silver	refer to photo
A176	Metal	silver	refer to photo
A177	Metal	silver	refer to photo
A178	Metal	silver	refer to photo
A179	Metal	silver	refer to photo
A180	Metal	silver	refer to photo
A181	Metal	grey	refer to photo
A182	Metal	silver	refer to photo
A183	Metal	silver	refer to photo
A184	Metal	silver	refer to photo
A186	Metal	silver	refer to photo
A187	Plastic	black	refer to photo
A188	Plastic	purple	refer to photo
A189	Plastic	black	refer to photo
A190	Textile	orange-yellow	refer to photo
A191	Metal	orange-brown	refer to photo
A192	Plastic	transparent	refer to photo
A194	Plastic	light orange-yellow	refer to photo
A195	Plastic	black	refer to photo



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A196	Plastic	white	refer to photo
A197	Plastic	white	refer to photo
A198	Plastic + adhesive	black	refer to photo
A199	Metal	silver	refer to photo
A200	Electronic components	light yellow-green	refer to photo
A201	Plastic + printing	black/white	refer to photo
A202	Plastic + printing	transparent/black	refer to photo
A203	Plastic + adhesive	white	refer to photo
A204	Plastic	grey	refer to photo
A205	Metal	silver	refer to photo
A206	Plastic	grey	refer to photo
A207	Foam material	black	refer to photo
A208	Plastic	dark grey	refer to photo
A209	Metal	silver	refer to photo
A210	Plastic	black	refer to photo
A211	Plastic	black	refer to photo
A212	Plastic	black	refer to photo
A213	Plastic	black	refer to photo
A214	Plastic	dark yellow-green	refer to photo
A215	Plastic	dark cyan	refer to photo
A216	Plastic	brown	refer to photo
A217	Textile	white	refer to photo
A218	Plastic + Textile	white	refer to photo
A219	Metal	silver	refer to photo
A220	Metal	silver	refer to photo
A221	Plastic	white	refer to photo
A222	Plastic	black	refer to photo
A223	Metal	golden	refer to photo
A224	Metal	orange-brown	refer to photo
A225	Plastic	black	refer to photo
A226	Metal	silver	refer to photo
A227	Metal	silver	refer to photo

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A228	Foam + adhesive	black	refer to photo
A229	Plastic	black	refer to photo
A230	Plastic	black	refer to photo
A231	Plastic	black	refer to photo
A232	Plastic	dark grey	refer to photo
A233	Plastic	dark green	refer to photo
A234	Plastic	dark green	refer to photo
A235	Plastic	black	refer to photo
A236	Plastic	transparent	refer to photo
A237	Plastic	black	refer to photo
A238	Plastic	transparent	refer to photo
A239	Metal	silver	refer to photo
A240	Metal	silver	refer to photo
A241	Plastic	transparent	refer to photo
A242	Metal	silver	refer to photo
A243	Plastic	black	refer to photo
A244	Metal	silver	refer to photo
A245	Plastic	black	refer to photo
A246	Metal	silver	refer to photo
A247	Metal	silver	refer to photo
A248	Plastic	black	refer to photo
A249	Plastic	black	refer to photo
A250	Metal	silver	refer to photo
A251	Metal	silver	refer to photo
A252	Metal	silver	refer to photo
A253	Plastic	black	refer to photo
A254	Metal	dark orange-brown	refer to photo
A255	Metal	orange-brown	refer to photo
A256	Metal	silver	refer to photo
A257	Metal	silver	refer to photo
A258	Metal	orange-brown	refer to photo
A259	Magnet	black	refer to photo

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A260	Metal	silver	refer to photo
A261	Plastic	black	refer to photo
A262	Metal	silver	refer to photo
A263	Plastic	light green-cyan	refer to photo
A264	Metal	golden	refer to photo
A265	Magnet	black	refer to photo
A266	Metal	orange-brown	refer to photo
A267	Metal	silver	refer to photo
A268	Plastic	black	refer to photo
A269	Metal	silver	refer to photo
A270	Plastic	white	refer to photo
A271	Plastic + Textile + Printing	white-green	refer to photo
A272	Metal + coating	black	refer to photo
A273	Plastic + printing + adhesive	silver/black/red	refer to photo
A275	Plastic	blue	refer to photo
A276	Plastic	black	refer to photo
A277	Plastic	black	refer to photo
A278	Plastic	black	refer to photo
A279	Plastic	yellow	refer to photo
A280	Plastic	light yellow	refer to photo
A281	Electronic components	yellow	refer to photo
A282	Electronic components	dark yellow	refer to photo
A283	Plastic + Textile + Printing	white-red	refer to photo
A284	Plastic	transparent	refer to photo
A285	Plastic + printing + adhesive	golden-black	refer to photo
A286	Glue	dark grey	refer to photo
A287	Plastic	yellow	refer to photo
A288	Plastic	light yellow	refer to photo
A289	Electronic components	orange-yellow	refer to photo
A290	Metal	silver	refer to photo

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A291	Electronic components	black	refer to photo
A292	Electronic components	yellow	refer to photo
A293	Plastic	black	refer to photo
A294	Plastic	dark red	refer to photo
A295	Plastic	black	refer to photo
A296	Metal	silver	refer to photo
A297	Metal	silver	refer to photo
A298	Plastic	black	refer to photo
A299	Metal	silver	refer to photo
A300	Metal	light orange-brown	refer to photo
A301	Metal	dark orange-brown	refer to photo
A302	Metal	silver	refer to photo
A303	Plastic	black	refer to photo
A304	Plastic	black	refer to photo
A305	Metal	silver	refer to photo
A306	Plastic + printing	black-white	refer to photo
A307	Electronic components	black	refer to photo
A308	Metal	silver	refer to photo
A309	Electronic components	blue	refer to photo
A310	Plastic + printing	dark green-yellow	refer to photo
A311	Plastic + printing + adhesive	light yellow-green	refer to photo
A312	Plastic	black	refer to photo
A313	Plastic	transparent	refer to photo
A314	Plastic	black	refer to photo
A315	Metal	silver	refer to photo
A316	Electronic components	black	refer to photo
A317	Plastic + printing	dark red	refer to photo
A318	Graphite	green	refer to photo
A319	Plastic	light yellow	refer to photo
A320	Metal	silver	refer to photo
A321	Metal	silver	refer to photo
A322	Metal	light orange-brown	refer to photo

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A323	Ceramic	black	refer to photo
A324	Metal	red	refer to photo
A325	Electronic components	black	refer to photo
A326	Electronic components	black	refer to photo
A327	Plastic	light yellow	refer to photo
A328	Magnet	black	refer to photo
A329	Ceramic	white	refer to photo
A330	Plastic	white	refer to photo
A331	Metal	silver	refer to photo
A332	Plastic	yellow	refer to photo
A333	Plastic	black	refer to photo
A334	Electronic components	black	refer to photo
A335	Plastic	light yellow	refer to photo
A336	Plastic	light yellow	refer to photo
A337	Metal	golden	refer to photo
A338	Electronic components	black	refer to photo
A339	Plastic	transparent	refer to photo
A340	Plastic	grey	refer to photo
A341	Plastic	cyan-blue	refer to photo
A342	Plastic	brown	refer to photo
A343	Metal	orange-brown	refer to photo
A344	Plastic	black	refer to photo
A345	Electronic components	white	refer to photo
A346	Plastic	white	refer to photo
A347	Plastic	dark blue	refer to photo
A348	Plastic	black	refer to photo
A349	Plastic	transparent	refer to photo
A350	Plastic	black	refer to photo
A351	Metal	silver	refer to photo
A352	Plastic	transparent-yellow	refer to photo
A353	Glass	transparent	refer to photo
A354	Plastic	red	refer to photo

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A355	Plastic	black	refer to photo
A356	Metal + coating	black	refer to photo
A357	Glue	yellow	refer to photo
A358	Metal	-	refer to photo
A359	Metal	yellow	refer to photo
A360	Plastic	black	refer to photo
A361	Plastic	black	refer to photo
A362	Plastic	dark green	refer to photo
A363	Plastic	yellow	refer to photo
A364	Plastic	black	refer to photo
A365	Metal	silver	refer to photo
A366	Metal	golden	refer to photo
A367	Plastic	yellow-green	refer to photo
A368	Metal	silver	refer to photo
A369	Metal	silver	refer to photo
A370	Plastic	red	refer to photo
A371	Plastic	black	refer to photo
A373	Plastic	black	refer to photo
A374	PCB board	-	refer to photo
A375	Metal	silver	refer to photo
A376	Metal	silver	refer to photo
A377	Plastic	transparent	refer to photo
A378	Metal	dark red-orange	refer to photo
A379	Metal	silver	refer to photo
A380	Plastic	red	refer to photo
A381	Plastic	red	refer to photo
A382	Plastic	red	refer to photo
A383	Metal	silver	refer to photo
A384	Metal	white	refer to photo
A385	Metal	silver	refer to photo
A386	Plastic	orange-yellow	refer to photo
A387	Plastic	black	refer to photo

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A388	Plastic	black	refer to photo
A389	Plastic	black	refer to photo
A390	Plastic	red-orange	refer to photo
A391	Plastic	white	refer to photo
A392	Plastic	red	refer to photo
A393	Metal	silver	refer to photo
A394	Plastic	white	refer to photo
A395	Plastic	transparent	refer to photo
A396	Plastic	dark red	refer to photo
A397	Plastic	grey	refer to photo
A398	Metal	dark grey	refer to photo
A399	Metal	silver	refer to photo
A400	Ceramic	silver	refer to photo
A401	Metal	silver	refer to photo
A402	Metal	silver	refer to photo
A403	Metal	silver	refer to photo
A404	Metal	silver	refer to photo
A405	Plastic	black	refer to photo
A406	Plastic	black	refer to photo
A407	Plastic	white	refer to photo
A408	Metal	silver	refer to photo
A409	Plastic	black	refer to photo
A410	Plastic	black	refer to photo
A411	Plastic	black	refer to photo
A412	Ceramic	white	refer to photo
A413	Metal	silver	refer to photo
A414	Metal	silver	refer to photo
A415	Metal	silver	refer to photo
A416	Metal	dark green	refer to photo
A417	Plastic	black	refer to photo
A418	Plastic	black	refer to photo
A419	Plastic	black	refer to photo

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A420	Metal	silver	refer to photo
A421	Plastic	black	refer to photo
A422	Plastic	dark red-orange	refer to photo
A423	Metal	silver	refer to photo
A424	Metal	silver	refer to photo
A425	Metal	silver	refer to photo
A426	Plastic	black	refer to photo
A427	Metal	golden	refer to photo
A428	Plastic	red	refer to photo
A429	Plastic	orange	refer to photo
A430	Plastic	brown	refer to photo
A431	Plastic	dark blue	refer to photo
A432	Plastic	white	refer to photo
A433	Plastic	green	refer to photo
A434	Plastic	yellow	refer to photo
A435	Plastic	black	refer to photo
A436	Plastic	transparent	refer to photo
A437	Plastic	transparent	refer to photo
A438	Plastic	black	refer to photo
A439	Plastic	transparent	refer to photo
A440	Plastic	dark cyan-blue	refer to photo
A441	Plastic	grey	refer to photo
A442	Plastic	dark grey	refer to photo
A443	Plastic	dark grey	refer to photo
A444	Metal	silver	refer to photo
A445	Metal	silver	refer to photo
A446	Metal	silver	refer to photo
A447	Plastic	white	refer to photo
A448	Plastic	white	refer to photo
A449	Plastic	white	refer to photo
A450	Plastic	white	refer to photo
A451	Magnet	black	refer to photo



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A452	Plastic	grey	refer to photo
A453	Metal	black	refer to photo
A454	Plastic	black	refer to photo
A455	Magnet	dark grey	refer to photo
A456	Metal	silver	refer to photo
A457	Metal	dark pink-red	refer to photo
A458	Plastic	light yellow	refer to photo
A459	Plastic + adhesive	yellow	refer to photo
A460	Textile	light orange-brown	refer to photo
A461	Plastic	blue	refer to photo
A462	Plastic	black	refer to photo
A463	Plastic	brown	refer to photo
A464	Metal	silver	refer to photo
A465	Metal	silver	refer to photo
A466	Metal	silver	refer to photo
A467	Metal	silver	refer to photo
A468	Metal	silver	refer to photo
A469	Metal	silver	refer to photo
A470	Metal	silver	refer to photo
A471	Metal	silver	refer to photo
A472	Metal	silver	refer to photo
A473	Metal	silver	refer to photo
A474	Metal	silver	refer to photo
A475	Metal	silver	refer to photo
A476	Metal	grey	refer to photo
A477	Metal	silver	refer to photo
A478	Metal	silver	refer to photo
A479	Metal	silver	refer to photo
A480	Metal	silver	refer to photo
A481	Metal	silver	refer to photo
A482	Metal	silver	refer to photo
A483	Metal	silver	refer to photo

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A484	Metal	silver	refer to photo
A485	Metal	silver	refer to photo
A486	Metal	silver	refer to photo
A487	Metal	silver	refer to photo
A488	Metal	silver	refer to photo
A489	Metal	silver	refer to photo
A490	Metal	silver	refer to photo

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**1.Screening Test by XRF spectroscopy**

Test Method: Cadmium, Lead, Mercury, Chromium, Bromine  
 -- With reference to IEC 62321-3-1:2013

**Test Result:**

Material No.	Cd	Cr	Pb	Hg	Br
A001	BL	BL	BL	BL	BL
A002	BL	BL	BL	BL	d.(*1)
A003	BL	BL	BL	BL	BL
A004	BL	BL	BL	BL	BL
A005	BL	BL	BL	BL	BL
A006	BL	BL	BL	BL	BL
A007	BL	d.(*1)	BL	BL	n.a.
A008	BL	BL	BL	BL	BL
A009	BL	d.(*1)	BL	BL	n.a.
A010	BL	BL	BL	BL	BL
A011	BL	BL	BL	BL	BL
A012	BL	BL	BL	BL	BL
A013	BL	BL	BL	BL	BL
A014	BL	BL	BL	BL	BL
A015	BL	BL	BL	BL	d.(*1)
A016	BL	BL	BL	BL	d.(*1)
A017	BL	BL	BL	BL	BL
A018	BL	BL	BL	BL	BL
A020	BL	BL	BL	BL	n.a.
A021	BL	BL	BL	BL	n.a.
A022	BL	BL	BL	BL	BL
A023	BL	BL	BL	BL	n.a.
A024	BL	BL	BL	BL	BL
A025	BL	BL	BL	BL	BL
A026	BL	BL	BL	BL	n.a.
A027	BL	BL	BL	BL	BL
A028	BL	BL	BL	BL	BL
A029	BL	BL	BL	BL	BL
A030	BL	BL	BL	BL	BL
A031	BL	BL	BL	BL	BL
A032	BL	BL	BL	BL	BL
A033	BL	BL	BL	BL	BL
A034	BL	BL	BL	BL	BL
A035	BL	BL	BL	BL	BL
A036	BL	BL	BL	BL	BL
A037	BL	BL	BL	BL	BL
A038	BL	BL	BL	BL	BL

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A039	BL	BL	BL	BL	n.a.
A040	BL	d.(*1)	BL	BL	n.a.
A041	BL	d.(*1)	BL	BL	BL
A042	BL	BL	BL	BL	BL
A043	BL	BL	BL	BL	n.a.
A044	BL	BL	BL	BL	d.(*1)
A045	BL	BL	BL	BL	d.(*1)
A046	BL	BL	BL	BL	n.a.
A047	BL	BL	BL	BL	BL
A048	BL	BL	d.(*1)	BL	n.a.
A049	BL	BL	BL	BL	n.a.
A050	BL	d.(*1)	BL	BL	n.a.
A051	BL	BL	BL	BL	BL
A052	BL	BL	BL	BL	BL
A053	BL	BL	BL	BL	BL
A054	BL	BL	BL	BL	n.a.
A055	BL	BL	BL	BL	BL
A056	BL	BL	BL	BL	n.a.
A057	BL	BL	BL	BL	BL
A058	BL	BL	BL	BL	BL
A059	BL	BL	BL	BL	n.a.
A060	BL	BL	BL	BL	BL
A061	BL	BL	BL	BL	BL
A062	BL	BL	BL	BL	BL
A063	BL	BL	BL	BL	BL
A064	BL	BL	BL	BL	BL
A065	BL	d.(*1)	BL	BL	n.a.
A066	BL	BL	BL	BL	BL
A067	BL	BL	BL	BL	BL
A068	BL	BL	BL	BL	n.a.
A069	BL	BL	BL	BL	n.a.
A070	BL	BL	BL	BL	BL
A071	BL	BL	BL	BL	BL
A072	BL	BL	BL	BL	BL
A073	BL	BL	BL	BL	BL
A074	BL	BL	BL	BL	BL
A075	BL	BL	BL	BL	BL
A076	BL	BL	BL	BL	n.a.
A077	BL	BL	BL	BL	BL
A078	BL	BL	BL	BL	n.a.
A079	BL	BL	BL	BL	n.a.
A080	BL	d.(*1)	BL	BL	n.a.
A081	BL	BL	BL	BL	BL

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A082	BL	BL	BL	BL	BL
A084	BL	BL	BL	BL	BL
A085	BL	BL	BL	BL	BL
A086	BL	BL	BL	BL	BL
A087	BL	BL	BL	BL	BL
A088	BL	BL	BL	BL	BL
A089	BL	BL	BL	BL	BL
A090	BL	BL	BL	BL	BL
A091	BL	BL	BL	BL	BL
A092	BL	BL	BL	BL	BL
A093	BL	BL	BL	BL	BL
A094	BL	BL	BL	BL	BL
A095	BL	BL	BL	BL	BL
A096	BL	BL	BL	BL	BL
A097	BL	BL	BL	BL	BL
A098	BL	d.(*1)	BL	BL	n.a.
A099	BL	BL	BL	BL	BL
A100	BL	d.(*1)	BL	BL	n.a.
A101	BL	BL	BL	BL	BL
A102	BL	BL	BL	BL	BL
A103	BL	BL	BL	BL	BL
A104	BL	BL	BL	BL	BL
A105	BL	BL	BL	BL	BL
A106	BL	BL	BL	BL	BL
A107	BL	d.(*1)	BL	BL	n.a.
A108	BL	BL	BL	BL	BL
A109	BL	BL	BL	BL	n.a.
A110	BL	BL	BL	BL	n.a.
A111	BL	BL	BL	BL	BL
A112	BL	BL	BL	BL	BL
A113	BL	BL	BL	BL	BL
A114	BL	d.(*1)	BL	BL	n.a.
A116	BL	BL	BL	BL	BL
A117	BL	BL	BL	BL	BL
A118	BL	BL	BL	BL	BL
A119	BL	d.(*1)	BL	BL	n.a.
A120	BL	BL	BL	BL	d.(*1)
A121	BL	BL	BL	BL	BL
A122	BL	BL	BL	BL	BL
A123	BL	BL	BL	BL	BL
A124	BL	BL	BL	BL	BL
A125	BL	BL	BL	BL	n.a.
A126	BL	BL	BL	BL	BL

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A127	BL	BL	BL	BL	BL
A128	BL	BL	BL	BL	d.(*1)
A130	BL	BL	BL	BL	BL
A131	BL	BL	BL	BL	BL
A132	BL	d.(*1)	BL	BL	n.a.
A133	BL	BL	BL	BL	BL
A134	BL	BL	BL	BL	BL
A135	BL	BL	BL	BL	n.a.
A136	BL	BL	BL	BL	d.(*1)
A137	BL	BL	BL	BL	BL
A138	BL	BL	BL	BL	BL
A139	BL	BL	BL	BL	n.a.
A140	BL	BL	BL	BL	BL
A141	BL	BL	BL	BL	BL
A142	BL	BL	BL	BL	BL
A143	BL	BL	BL	BL	n.a.
A144	BL	BL	BL	BL	BL
A145	BL	BL	BL	BL	BL
A146	BL	BL	BL	BL	BL
A147	BL	BL	BL	BL	BL
A148	BL	BL	BL	BL	BL
A150	BL	BL	BL	BL	BL
A151	BL	BL	BL	BL	BL
A152	BL	BL	BL	BL	BL
A153	BL	BL	BL	BL	BL
A154	BL	BL	BL	BL	BL
A155	BL	BL	BL	BL	BL
A156	BL	BL	BL	BL	BL
A157	BL	BL	BL	BL	BL
A158	BL	BL	BL	BL	BL
A159	BL	BL	BL	BL	BL
A160	BL	BL	BL	BL	BL
A161	BL	BL	BL	BL	BL
A162	BL	BL	BL	BL	BL
A163	BL	BL	BL	BL	BL
A164	BL	BL	BL	BL	BL
A165	BL	BL	BL	BL	n.a.
A166	BL	BL	BL	BL	BL
A167	BL	BL	BL	BL	BL
A168	BL	BL	BL	BL	n.a.
A169	BL	BL	BL	BL	BL
A170	BL	BL	BL	BL	BL
A172	BL	BL	BL	BL	BL

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A173	BL	BL	BL	BL	BL
A174	BL	BL	BL	BL	n.a.
A175	BL	d.(*1)	BL	BL	n.a.
A176	BL	BL	BL	BL	n.a.
A177	BL	d.(*1)	BL	BL	n.a.
A178	BL	BL	BL	BL	n.a.
A179	BL	d.(*1)	BL	BL	n.a.
A180	BL	d.(*1)	BL	BL	n.a.
A181	BL	d.(*1)	BL	BL	n.a.
A182	BL	d.(*1)	BL	BL	n.a.
A183	BL	d.(*1)	BL	BL	n.a.
A184	BL	d.(*1)	BL	BL	n.a.
A186	BL	BL	BL	BL	n.a.
A187	BL	BL	BL	BL	BL
A188	BL	BL	BL	BL	BL
A189	BL	BL	BL	BL	BL
A190	BL	BL	BL	BL	BL
A191	BL	BL	BL	BL	n.a.
A192	BL	BL	BL	BL	BL
A194	BL	BL	BL	BL	BL
A195	BL	BL	BL	BL	BL
A196	BL	BL	BL	BL	BL
A197	BL	BL	BL	BL	BL
A198	BL	BL	BL	BL	BL
A199	BL	BL	BL	BL	n.a.
A200	BL	BL	BL	BL	BL
A201	BL	BL	BL	BL	BL
A202	BL	BL	BL	BL	BL
A203	BL	BL	BL	BL	BL
A204	BL	BL	BL	BL	d.(*1)
A205	BL	d.(*1)	BL	BL	n.a.
A206	BL	BL	BL	BL	BL
A207	BL	BL	BL	BL	BL
A208	BL	BL	BL	BL	BL
A209	BL	d.(*1)	BL	BL	n.a.
A210	BL	BL	BL	BL	BL
A211	BL	BL	BL	BL	BL
A212	BL	BL	BL	BL	BL
A213	BL	BL	BL	BL	BL
A214	BL	BL	BL	BL	BL
A215	BL	BL	BL	BL	BL
A216	BL	BL	BL	BL	BL
A217	BL	BL	BL	BL	BL

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A218	BL	BL	BL	BL	BL
A219	BL	BL	BL	BL	n.a.
A220	BL	BL	BL	BL	n.a.
A221	BL	BL	BL	BL	BL
A222	BL	BL	BL	BL	BL
A223	BL	BL	BL	BL	n.a.
A224	BL	BL	BL	BL	n.a.
A225	BL	BL	BL	BL	BL
A226	BL	BL	BL	BL	n.a.
A227	BL	BL	BL	BL	n.a.
A228	BL	BL	BL	BL	BL
A229	BL	BL	BL	BL	BL
A230	BL	BL	BL	BL	BL
A231	BL	BL	BL	BL	BL
A232	BL	BL	BL	BL	BL
A233	BL	BL	BL	BL	BL
A234	BL	BL	BL	BL	BL
A235	BL	BL	BL	BL	BL
A236	BL	BL	BL	BL	BL
A237	BL	BL	BL	BL	BL
A238	BL	BL	BL	BL	BL
A239	BL	d.(*1)	BL	BL	n.a.
A240	BL	d.(*1)	BL	BL	n.a.
A241	BL	BL	BL	BL	BL
A242	BL	BL	BL	BL	n.a.
A243	BL	BL	BL	BL	BL
A244	BL	d.(*1)	BL	BL	n.a.
A245	BL	BL	BL	BL	BL
A246	BL	BL	BL	BL	n.a.
A247	BL	BL	BL	BL	n.a.
A248	BL	BL	BL	BL	BL
A249	BL	BL	BL	BL	d.(*1)
A250	BL	BL	BL	BL	n.a.
A251	BL	d.(*1)	BL	BL	n.a.
A252	BL	d.(*1)	BL	BL	n.a.
A253	BL	BL	BL	BL	BL
A254	BL	BL	BL	BL	n.a.
A255	BL	BL	BL	BL	n.a.
A256	BL	d.(*1)	BL	BL	n.a.
A257	BL	BL	BL	BL	n.a.
A258	BL	BL	BL	BL	n.a.
A259	BL	BL	BL	BL	n.a.
A260	BL	BL	BL	BL	n.a.



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A261	BL	BL	BL	BL	BL
A262	BL	d.(*1)	BL	BL	n.a.
A263	BL	BL	BL	BL	BL
A264	BL	BL	BL	BL	n.a.
A265	BL	BL	BL	BL	n.a.
A266	BL	BL	BL	BL	n.a.
A267	BL	BL	BL	BL	n.a.
A268	BL	BL	BL	BL	BL
A269	BL	d.(*1)	BL	BL	n.a.
A270	BL	BL	BL	BL	BL
A271	BL	BL	BL	BL	BL
A272	BL	BL	BL	BL	n.a.
A273	BL	BL	BL	BL	BL
A275	BL	BL	BL	BL	BL
A276	BL	BL	BL	BL	BL
A277	BL	BL	BL	BL	d.(*1)
A278	BL	BL	BL	BL	BL
A279	BL	BL	BL	BL	d.(*1)
A280	BL	BL	BL	BL	d.(*1)
A281	BL	BL	BL	BL	d.(*1)
A282	BL	BL	BL	BL	d.(*1)
A283	BL	BL	BL	BL	BL
A284	BL	BL	BL	BL	BL
A285	BL	BL	BL	BL	BL
A286	BL	BL	BL	BL	BL
A287	BL	BL	BL	BL	d.(*1)
A288	BL	BL	BL	BL	d.(*1)
A289	BL	BL	BL	BL	d.(*1)
A290	BL	BL	BL	BL	n.a.
A291	BL	BL	BL	BL	d.(*1)
A292	BL	BL	BL	BL	d.(*1)
A293	BL	BL	BL	BL	d.(*1)
A294	BL	BL	BL	BL	BL
A295	BL	BL	BL	BL	BL
A296	BL	BL	BL	BL	n.a.
A297	BL	BL	BL	BL	n.a.
A298	BL	BL	BL	BL	BL
A299	BL	d.(*1)	BL	BL	n.a.
A300	BL	BL	BL	BL	n.a.
A301	BL	BL	BL	BL	n.a.
A302	BL	BL	BL	BL	n.a.
A303	BL	BL	BL	BL	d.(*1)
A304	BL	BL	BL	BL	d.(*1)

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A305	BL	BL	BL	BL	n.a.
A306	BL	BL	BL	BL	BL
A307	BL	BL	BL	BL	d.(*1)
A308	BL	BL	BL	BL	n.a.
A309	BL	BL	BL	BL	BL
A310	BL	BL	BL	BL	BL
A311	BL	BL	BL	BL	BL
A312	BL	BL	BL	BL	d.(*1)
A313	BL	BL	BL	BL	BL
A314	BL	BL	BL	BL	d.(*1)
A315	BL	BL	BL	BL	n.a.
A316	BL	d.(*1)	BL	BL	BL
A317	BL	BL	BL	BL	BL
A318	BL	BL	BL	BL	BL
A319	BL	BL	BL	BL	d.(*1)
A320	BL	BL	BL	BL	n.a.
A321	BL	BL	BL	BL	n.a.
A322	BL	BL	BL	BL	n.a.
A323	BL	d.(*1)	d.(*1)	BL	BL
A324	BL	BL	BL	BL	n.a.
A325	BL	BL	BL	BL	BL
A326	BL	BL	BL	BL	BL
A327	BL	BL	BL	BL	BL
A328	BL	BL	BL	BL	n.a.
A329	BL	BL	BL	BL	n.a.
A330	BL	BL	BL	BL	BL
A331	BL	d.(*1)	BL	BL	n.a.
A332	BL	BL	BL	BL	BL
A333	BL	BL	BL	BL	BL
A334	BL	BL	BL	BL	BL
A335	BL	BL	BL	BL	BL
A336	BL	BL	BL	BL	BL
A337	BL	BL	BL	BL	n.a.
A338	BL	BL	BL	BL	BL
A339	BL	BL	BL	BL	BL
A340	BL	BL	BL	BL	d.(*1)
A341	BL	BL	BL	BL	BL
A342	BL	BL	BL	BL	BL
A343	BL	BL	BL	BL	n.a.
A344	BL	BL	BL	BL	BL
A345	BL	BL	BL	BL	d.(*1)
A346	BL	BL	BL	BL	d.(*1)
A347	BL	BL	BL	BL	BL

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A348	BL	BL	BL	BL	BL
A349	BL	BL	BL	BL	BL
A350	BL	BL	BL	BL	BL
A351	BL	d.(*1)	BL	BL	n.a.
A352	BL	BL	BL	BL	BL
A353	BL	BL	BL	BL	n.a.
A354	BL	BL	BL	BL	BL
A355	BL	BL	BL	BL	BL
A356	BL	BL	BL	BL	n.a.
A357	BL	BL	BL	BL	BL
A358	BL	BL	BL	BL	n.a.
A359	BL	BL	BL	BL	n.a.
A360	BL	BL	BL	BL	BL
A361	BL	BL	BL	BL	d.(*1)
A362	BL	BL	BL	BL	BL
A363	BL	BL	BL	BL	BL
A364	BL	BL	BL	BL	BL
A365	BL	d.(*1)	BL	BL	n.a.
A366	BL	BL	BL	BL	n.a.
A367	BL	BL	BL	BL	BL
A368	BL	BL	BL	BL	n.a.
A369	BL	BL	BL	BL	n.a.
A370	BL	BL	BL	BL	BL
A371	BL	BL	BL	BL	BL
A373	BL	BL	BL	BL	d.(*1)
A374	BL	BL	BL	BL	d.(*1)
A375	BL	BL	BL	BL	n.a.
A376	BL	d.(*1)	BL	BL	n.a.
A377	BL	BL	BL	BL	BL
A378	BL	BL	BL	BL	n.a.
A379	BL	BL	BL	BL	n.a.
A380	BL	BL	BL	BL	BL
A381	BL	BL	BL	BL	BL
A382	BL	BL	BL	BL	BL
A383	BL	BL	BL	BL	n.a.
A384	BL	BL	BL	BL	n.a.
A385	BL	BL	BL	BL	n.a.
A386	BL	BL	BL	BL	BL
A387	BL	BL	BL	BL	BL
A388	BL	BL	BL	BL	BL
A389	BL	BL	BL	BL	BL
A390	BL	BL	BL	BL	BL
A391	BL	BL	BL	BL	BL

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A392	BL	BL	BL	BL	BL
A393	BL	BL	BL	BL	n.a.
A394	BL	BL	BL	BL	BL
A395	BL	BL	BL	BL	BL
A396	BL	BL	BL	BL	BL
A397	BL	BL	BL	BL	BL
A398	BL	BL	BL	BL	n.a.
A399	BL	d.(*1)	BL	BL	n.a.
A400	BL	BL	d.(*1)	BL	n.a.
A401	BL	d.(*1)	BL	BL	n.a.
A402	BL	BL	BL	BL	n.a.
A403	BL	d.(*1)	BL	BL	n.a.
A404	BL	BL	BL	BL	n.a.
A405	BL	BL	BL	BL	BL
A406	BL	BL	BL	BL	BL
A407	BL	BL	BL	BL	BL
A408	BL	d.(*1)	BL	BL	n.a.
A409	BL	BL	BL	BL	BL
A410	BL	BL	BL	BL	BL
A411	BL	BL	BL	BL	BL
A412	BL	BL	BL	BL	n.a.
A413	BL	d.(*1)	BL	BL	n.a.
A414	BL	d.(*1)	BL	BL	n.a.
A415	BL	BL	BL	BL	n.a.
A416	BL	BL	BL	BL	n.a.
A417	BL	BL	BL	BL	BL
A418	BL	BL	BL	BL	BL
A419	BL	BL	BL	BL	BL
A420	BL	d.(*1)	BL	BL	n.a.
A421	BL	BL	BL	BL	BL
A422	BL	BL	BL	BL	BL
A423	BL	BL	BL	BL	n.a.
A424	BL	BL	BL	BL	n.a.
A425	BL	BL	BL	BL	n.a.
A426	BL	BL	BL	BL	BL
A427	BL	BL	BL	BL	n.a.
A428	BL	BL	BL	BL	BL
A429	BL	BL	BL	BL	BL
A430	BL	BL	BL	BL	BL
A431	BL	BL	BL	BL	BL
A432	BL	BL	BL	BL	BL
A433	BL	BL	BL	BL	BL
A434	BL	BL	BL	BL	BL

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A435	BL	BL	BL	BL	BL
A436	BL	BL	BL	BL	BL
A437	BL	BL	BL	BL	BL
A438	BL	BL	BL	BL	BL
A439	BL	BL	BL	BL	BL
A440	BL	BL	BL	BL	BL
A441	BL	BL	BL	BL	BL
A442	BL	BL	BL	BL	BL
A443	BL	BL	BL	BL	BL
A444	BL	d.(*1)	BL	BL	n.a.
A445	BL	BL	BL	BL	n.a.
A446	BL	d.(*1)	BL	BL	n.a.
A447	BL	BL	BL	BL	BL
A448	BL	BL	BL	BL	BL
A449	BL	BL	BL	BL	BL
A450	BL	BL	BL	BL	d.(*1)
A451	BL	BL	BL	BL	n.a.
A452	BL	BL	BL	BL	BL
A453	BL	BL	BL	BL	BL
A454	BL	BL	BL	BL	BL
A455	BL	d.(*1)	BL	BL	n.a.
A456	BL	BL	BL	BL	n.a.
A457	BL	BL	BL	BL	n.a.
A458	BL	BL	BL	BL	BL
A459	BL	BL	BL	BL	BL
A460	BL	BL	BL	BL	BL
A461	BL	BL	BL	BL	BL
A462	BL	BL	BL	BL	BL
A463	BL	BL	BL	BL	BL
A464	BL	d.(*1)	BL	BL	n.a.
A465	BL	d.(*1)	BL	BL	n.a.
A466	BL	d.(*1)	BL	BL	n.a.
A467	BL	d.(*1)	BL	BL	n.a.
A468	BL	d.(*1)	BL	BL	n.a.
A469	BL	BL	BL	BL	n.a.
A470	BL	d.(*1)	BL	BL	n.a.
A471	BL	d.(*1)	BL	BL	n.a.
A472	BL	d.(*1)	BL	BL	n.a.
A473	BL	d.(*1)	BL	BL	n.a.
A474	BL	BL	BL	BL	n.a.
A475	BL	d.(*1)	BL	BL	n.a.
A476	BL	BL	BL	BL	n.a.
A477	BL	d.(*1)	BL	BL	n.a.

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A478	BL	BL	BL	BL	n.a.
A479	BL	d.(*1)	BL	BL	n.a.
A480	BL	BL	BL	BL	n.a.
A481	BL	d.(*1)	BL	BL	n.a.
A482	BL	d.(*1)	BL	BL	n.a.
A483	BL	d.(*1)	BL	BL	n.a.
A484	BL	BL	BL	BL	n.a.
A485	BL	BL	BL	BL	n.a.
A486	BL	BL	BL	BL	n.a.
A487	BL	d.(*1)	BL	BL	n.a.
A488	BL	d.(*1)	BL	BL	n.a.
A489	BL	d.(*1)	BL	BL	n.a.
A490	BL	d.(*1)	BL	BL	n.a.
A083	BL	BL	BL	BL	BL

**Abbreviation:** Pb = Lead  
 Cd = Cadmium  
 Hg = Mercury  
 Cr = Chromium  
 Br = Bromine  
 n.a. = Not applicable  
 BL = Below limit  
 OL = Over limit  
 d. = Detected

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**Remark:**

- (\*1) The screening result was detected in the inconclusive region or over limits, thus the further wet chemistry tests are suggested.
- (\*2) Component(s)/ materials(s) with an area of less than 2 mm x 2 mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.  
 For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.  
 Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.  
 All other materials will be sampled and tested at one test point representatively.
- (\*3) The Chromium (Cr) and Bromine (Br) in the above result table indicate the total chromium and total bromine by means of XRF screening. PBBs, or PBDEs content shall be further confirmed with reference to IEC 62321-6:2015. Chromium (VI) shall be further confirmed with reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 or EN ISO 17075-1:2017.

XRF Screening limits for different matrices :

Material	Concentration (%)				
	Cd	Cr	Pb	Hg	Br
<b>Polymeric</b>	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	BL≤0.029<X
<b>Metallic</b>	BL≤0.006<X<0.014≤ OL	BL≤0.064<X	BL≤0.067<X<0.133≤ OL	BL≤0.066<X< 0.134≤OL	n.a.
<b>Composite materials</b>	BL≤0.004<X<0.016≤ OL	BL≤0.044<X	BL≤0.047<X<0.153≤ OL	BL≤0.046<X< 0.154≤OL	BL≤0.024<X

Remark: The symbol "X" marks the region where further investigation is necessary.

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**Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE)**

Test Method: Total Cadmium, Lead, Mercury, Chromium  
 - Ref. to IEC 62321-4:2013+AMD1:2017 and IEC 62321-5:2013

Chromium (VI)  
 - For Metal material - Ref. to IEC 62321-7-1:2015  
 - For Polymer, Electronic material or others materials – Ref. to IEC 62321-7-2:2017

PBBs, PBDEs – Ref. to IEC 62321-6:2015

**Test Result:**

	<b>Cd</b>	<b>Cr(VI)</b>	<b>Pb</b>	<b>Hg</b>	<b>PBBs</b>	<b>PBDEs</b>
<b>Maximum Permissible Limit (%)</b>	0.01	0.1	0.1	0.1	0.1	0.1

<b>Material No.</b>	<b>(%)</b>					
	<b>Cd</b>	<b>Cr<sup>VI</sup></b>	<b>Pb</b>	<b>Hg</b>	<b>PBBs</b>	<b>PBDEs</b>
	<b>RL (%)</b>					
	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.01</b>	<b>0.01</b>
A002	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A015	n.a.	n.a.	n.a.	n.a.	< RL	0.01
A016	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A044	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A045	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A048	< RL	n.a.	6.10*7(c)-I	n.a.	n.a.	n.a.
A120	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A128	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A136	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A204	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A249	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A277	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A279	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A280	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A281	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A282	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A287	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A288	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A289	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A291	n.a.	n.a.	n.a.	n.a.	< RL	< RL



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A292	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A293	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A303	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A304	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A307	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A312	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A314	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A319	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A323	n.a.	n.a.	0.306*7(c)-I	n.a.	n.a.	n.a.
A340	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A345	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A346	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A361	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A373	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A374	n.a.	n.a.	n.a.	n.a.	< RL	< RL
A400	n.a.	n.a.	1.34*7(c)-I	n.a.	n.a.	n.a.
A450	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
A007	Negative
A009	Negative
A040	Negative
A050	Negative
A065	Negative
A080	Negative
A098	Negative
A100	Negative
A107	Negative
A114	Negative
A119	Negative
A132	Negative
A175	Negative
A177	Negative
A179	Negative
A180	Negative
A181	Negative
A182	Negative

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A183	Negative
A184	Negative
A205	Negative
A209	Negative
A239	Negative
A240	Negative
A244	Negative
A251	Negative
A252	Negative
A257	Negative
A262	Negative
A269	Negative
A299	Negative
A331	Negative
A351	Negative
A365	Negative
A376	Negative
A399	Negative
A401	Negative
A403	Negative
A408	Negative
A413	Negative
A414	Negative
A420	Negative
A444	Negative
A446	Negative
A455	Negative
A464	Negative
A465	Negative
A466	Negative
A467	Negative
A468	Negative
A470	Negative
A471	Negative
A472	Negative
A473	Negative
A475	Negative
A477	Negative
A479	Negative
A481	Negative
A482	Negative

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A483	Negative
A487	Negative
A488	Negative
A489	Negative
A490	Negative

Material No.	Chromium VI content for other materials (%) RL: 0.01%
A323	<RL
A041	<RL
A316	<RL

**Abbreviation:**

Pb	= Lead
Cd	= Cadmium
Hg	= Mercury
Cr	= Chromium
Cr (VI)	= Chromium (VI)
PBBs	= Total Polybrominated Biphenyls
PBDEs	= Total Polybrominated Diphenyl Ethers
<	= Less than
RL	= Reporting Limit
n.a.	= Not Applicable
^	= The total Chromium have been determined
%	= Percentage

**Remark:**

(\*1) The Chromium (VI) content of metal sample in surface layer have been confirmed with reference to IEC 62321-7-1:2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm <sup>2</sup>	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	≥0.1µg/cm <sup>2</sup> and ≤0.13 µg/cm <sup>2</sup>	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 µg/cm <sup>2</sup>	The sample is positive (+ve) for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

7(c)-I 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.

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**BBP, DBP, DEHP, DIBP content**

Test Method: ref. to IEC 62321-8:2017

**Test Result:**

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	RL (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	A001 + A012 + A013	< RL	< RL	< RL	< RL
T002	A017 + A018 + A025	< RL	< RL	0.013	< RL
T003	A028 + A062 + A273	< RL	< RL	< RL	< RL
T004	A029 + A063 + A198	< RL	< RL	< RL	< RL
T005	A051 + A192 + A203	< RL	0.018	< RL	< RL
T006	A055 + A083 + A201	< RL	< RL	< RL	< RL
T007	A058 + A085 + A099	< RL	< RL	< RL	< RL
T008	A060 + A061 + A066	< RL	< RL	< RL	< RL
T009	A067 + A070 + A071	< RL	< RL	< RL	< RL
T010	A072 + A073 + A074	< RL	< RL	< RL	< RL
T011	A087 + A123 + A155	< RL	< RL	< RL	< RL
T012	A091 + A092 + A094	< RL	< RL	< RL	< RL
T013	A096 + A097 + A102	< RL	< RL	< RL	< RL
T014	A105	< RL	< RL	< RL	< RL
T016	A130 + A137 + A138	< RL	< RL	< RL	< RL
T017	A140 + A142 + A145	< RL	< RL	< RL	< RL
T018	A144 + A146	< RL	< RL	< RL	< RL
T019	A147 + A150 + A156	< RL	< RL	< RL	< RL
T020	A152 + A153 + A169	< RL	< RL	< RL	< RL
T021	A157 + A158 + A164	< RL	< RL	< RL	< RL
T024	A211 + A212 + A213	< RL	< RL	< RL	< RL

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T025	A214 + A215 + A216	< RL	< RL	< RL	< RL
T026	A218 + A221 + A222	< RL	< RL	< RL	< RL
T027	A225 + A228 + A229	< RL	< RL	< RL	< RL
T028	A230 + A238 + A241	< RL	< RL	< RL	< RL
T029	A243 + A245 + A248	< RL	< RL	< RL	< RL
T031	A283 + A284 + A285	< RL	< RL	< RL	< RL
T032	A286	< RL	< RL	< RL	< RL
T033	A306 + A310 + A311	< RL	< RL	< RL	< RL
T034	A317 + A377 + A390	< RL	< RL	< RL	< RL
T035	A330 + A332 + A333	< RL	< RL	< RL	< RL
T036	A339 + A347 + A350	< RL	< RL	< RL	< RL
T037	A341 + A342 + A344	< RL	< RL	< RL	< RL
T038	A349 + A360 + A367	< RL	< RL	< RL	< RL
T040	A386 + A387 + A388	< RL	< RL	< RL	< RL
T041	A389 + A391 + A392	< RL	< RL	< RL	< RL
T042	A394 + A395 + A396	< RL	< RL	< RL	< RL
T043	A419 + A421 + A422	< RL	< RL	< RL	< RL
T044	A428 + A429 + A430	< RL	< RL	< RL	< RL
T045	A431 + A432 + A433	< RL	< RL	< RL	< RL
T046	A434 + A435 + A436	< RL	< RL	< RL	< RL
T047	A207 + A438 + A459	< RL	< RL	< RL	< RL
T048	A461 + A462 + A463	< RL	< RL	< RL	< RL
T049	A237 + A417	< RL	< RL	< RL	< RL
T050	A124	< RL	< RL	< RL	< RL
T052	A131	< RL	< RL	< RL	< RL
T053	A162	< RL	< RL	< RL	< RL
T054	A170	< RL	< RL	< RL	< RL
T057	A188	< RL	< RL	< RL	< RL
T058	A189	< RL	< RL	< RL	< RL
T059	A261	< RL	< RL	< RL	< RL

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T060	A275	< RL	< RL	< RL	< RL
T061	A276	< RL	< RL	< RL	< RL
T062	A370	< RL	< RL	< RL	< RL
T063	A371	< RL	< RL	< RL	< RL

**Abbreviation:** BBP= Benzylbutyl phthalate  
DBP= Dibutyl phthalate  
DEHP= Bis(2-ethylhexyl) phthalate  
DIBP= Diisobutyl phthalate  
< = less than  
RL = Reporting Limit  
%= percentage

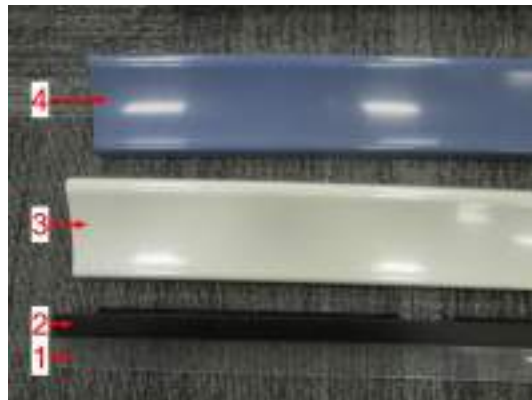
**Remark:**

- \* The maximum permissible limit is required from the amendment (EU) 2015/863 of RoHS Directive 2011/65/EU.

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Sample Photos

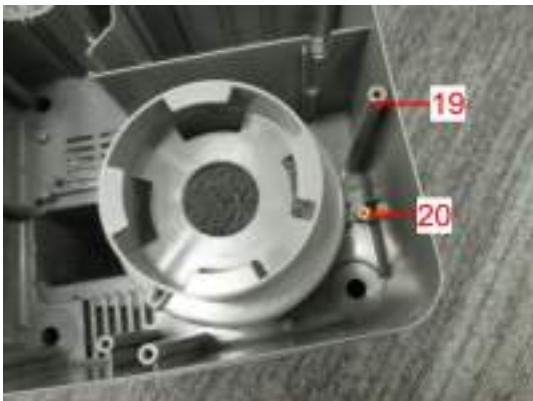




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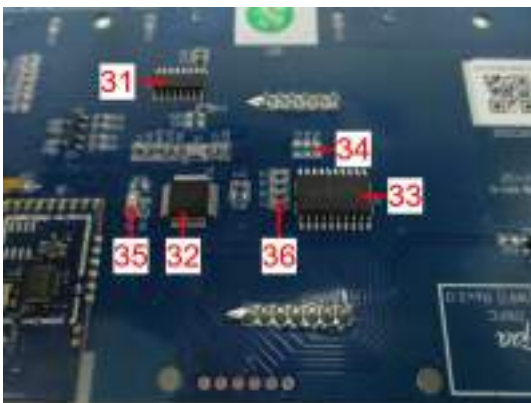
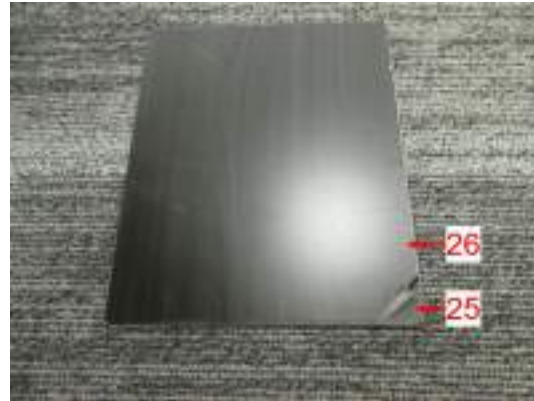
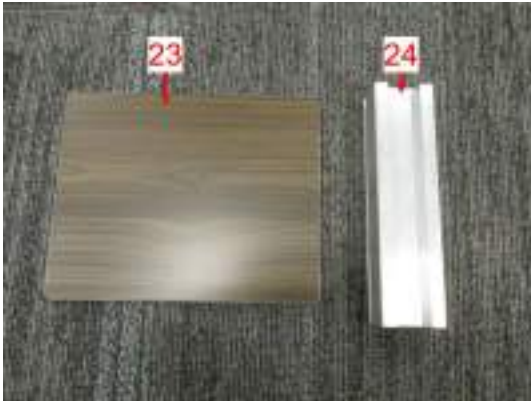




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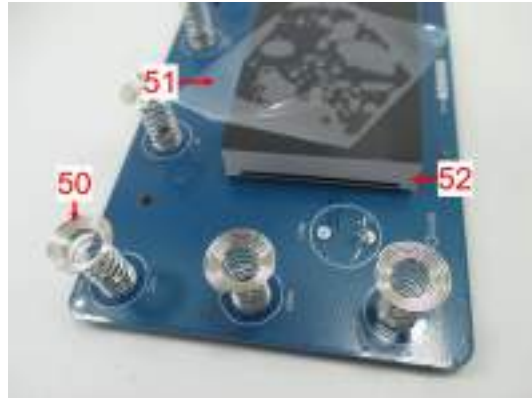
Sample Photos



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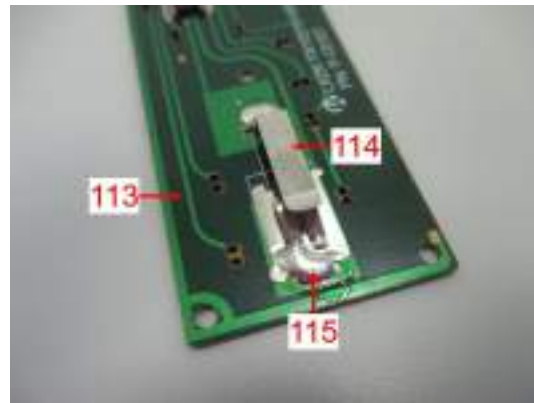
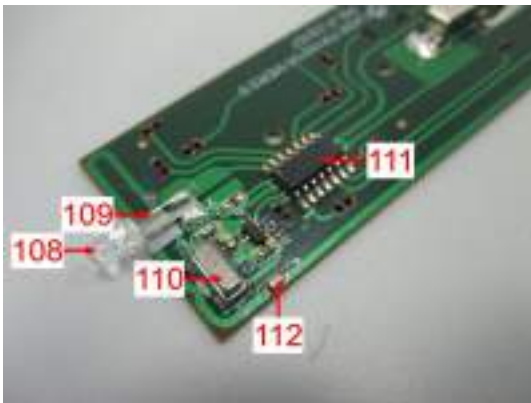




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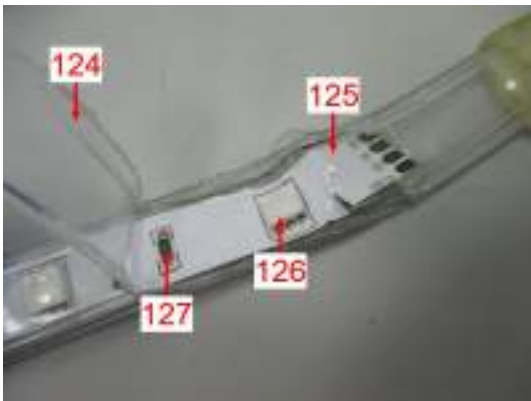
Sample Photos



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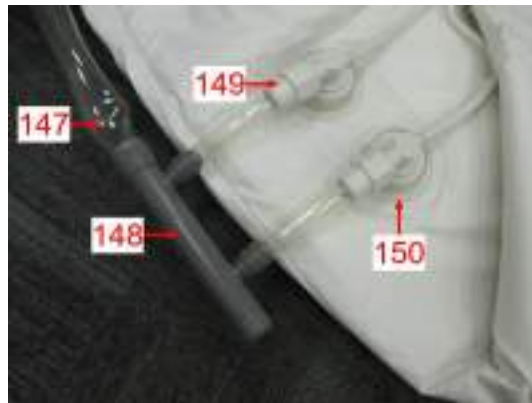
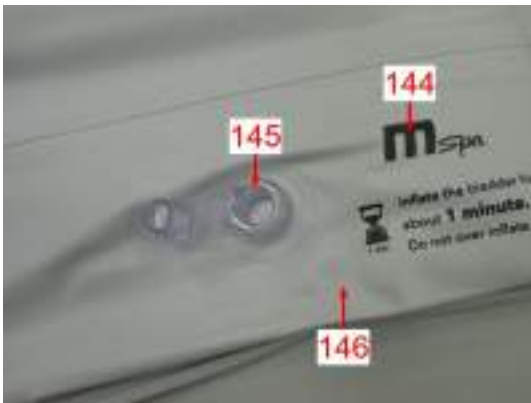
Sample Photos



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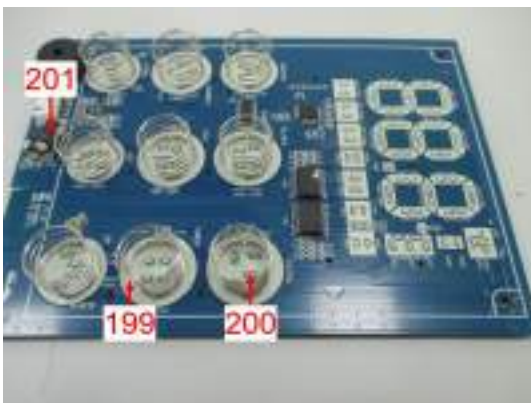
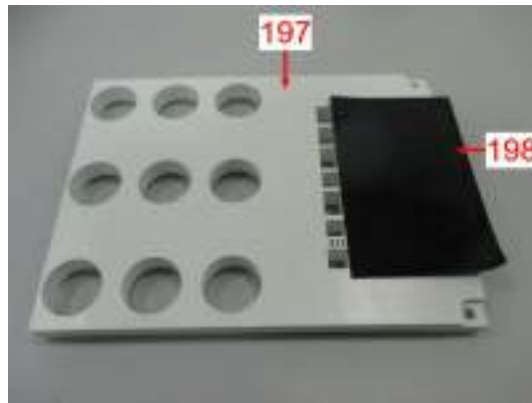
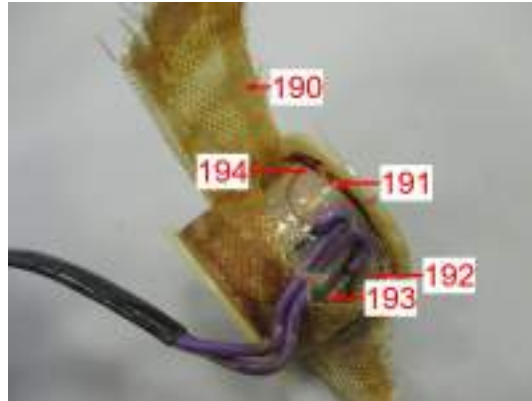
Sample Photos



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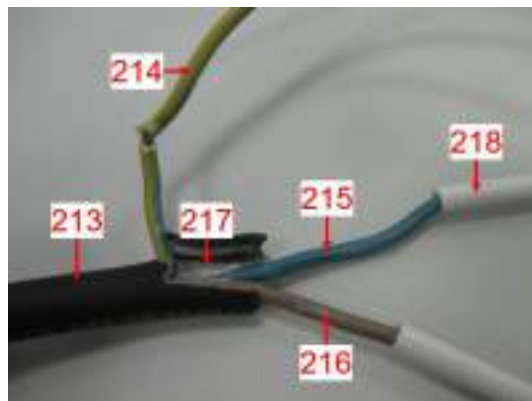
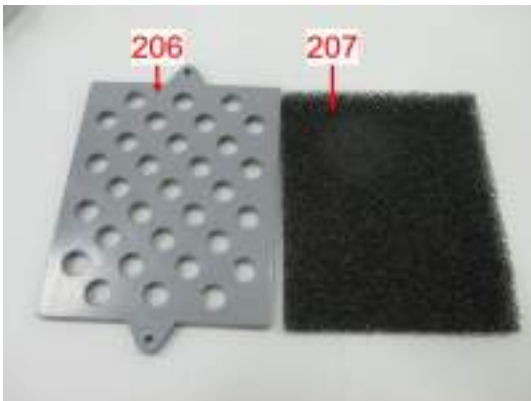
Sample Photos



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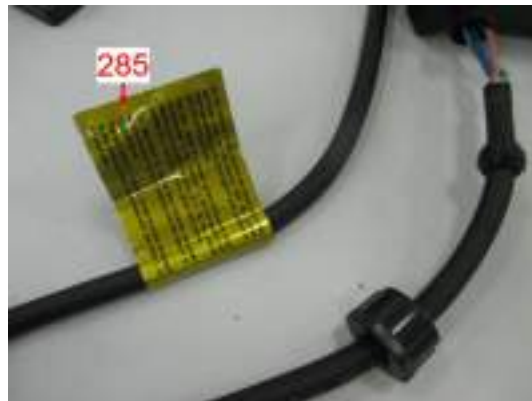
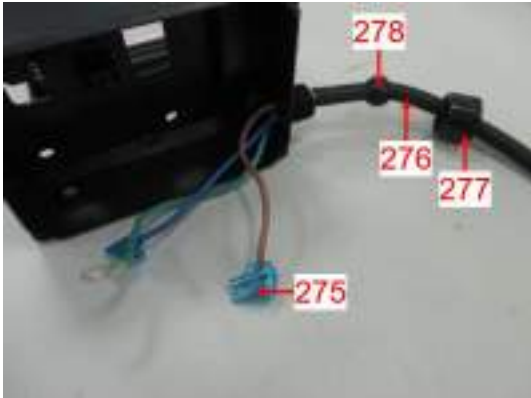
Sample Photos



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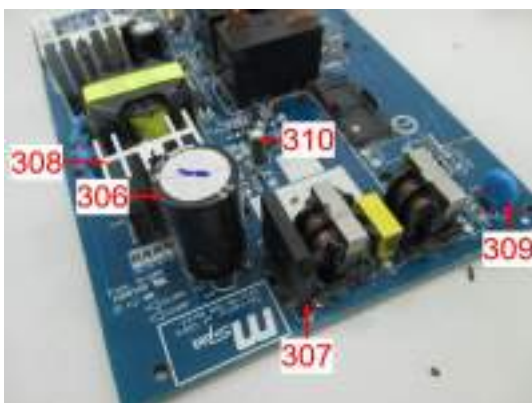
Sample Photos



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Sample Photos

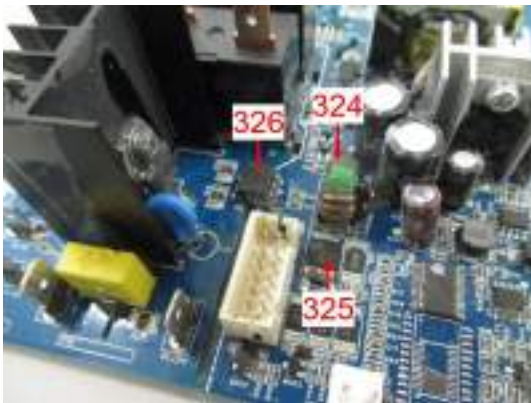




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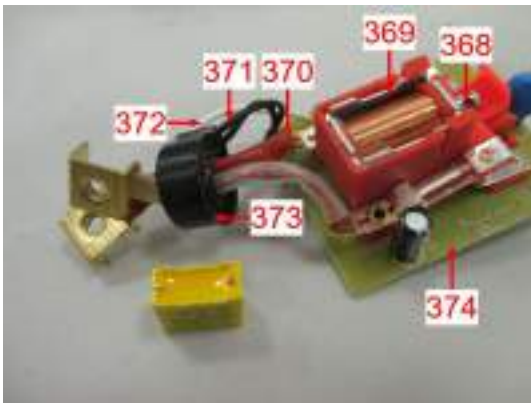
Sample Photos



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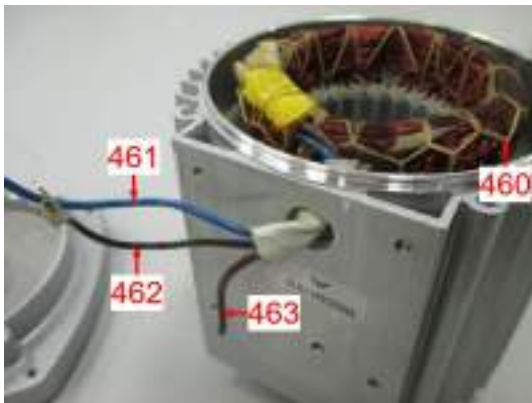
Sample Photos



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