

Report No.: 27220092a 001

Page 1 of 83

Client: HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED

Contact Information: 8500 Balboa Blvd, Northridge, CA 91329, UNITED STATES

Test item(s): 460 materials

Identification/ Wireless Speaker

Model No(s): COVE P1

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2026-02-03, 2026-02-06, 2026-03-04, 2026-03-19, 2026-03-20, 2026-03-30, 2026-04-01, 2026-04-02, 2026-04-03, 2026-04-07, 2026-04-08, 2026-04-09, 2026-04-13, 2026-04-15, 2026-04-20

Testing Period: 2026-02-12 to 2026-04-22

Place of testing: Chemical laboratory Shenzhen

Test Specification:

Test result:

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE), ROHS Phthalates (BBP, DBP, DEHP, 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 Directive (EU) 2015/863

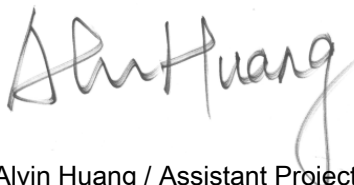
PASS

Other information:

Factory: Guoguang Electric Co., Ltd.

Factory Address: No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, Guangdong, P.R. China

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



2026-05-13

Alvin Huang / Assistant Project 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.

Test Report No.: 27220092a 001

Page 2 of 83

Material List:

Item: Wireless Speaker
COVE P1

Material No.	Material	Color	Location
M001	Soft plastic	Black	Refer to photo
M002	Soft plastic	Black	Refer to photo
M003	Metal	Silvery	Refer to photo
M004	Metal	Golden	Refer to photo
M005	Plastic	Black	Refer to photo
M006	PCB	Green	Refer to photo
M007	Solder	Silvery	Refer to photo
M008	Plastic	Translucent white	Refer to photo
M009	Plastic	Silvery	Refer to photo
M010a	Soft plastic	Red	Refer to photo
M010b	Metal	Coppery	Refer to photo
M011a	Soft plastic	Green	Refer to photo
M012a	Soft plastic	Yellow	Refer to photo
M013a	Soft plastic	White	Refer to photo
M014	Metal	Coppery	Refer to photo
M015	Textile	White	Refer to photo
M016	Plastic	Black	Refer to photo
M017	Plastic + printing	Black/ grey	Refer to photo
M018	Metal	Silvery	Refer to photo
M019	Plastic + adhesive	Transparent yellow	Refer to photo
M020	Metal + plating	Silvery/ black	Refer to photo
M021	Plastic	Black	Refer to photo
M022	Plastic	Black	Refer to photo
M023	Metal	Silvery	Refer to photo
M024	Plastic	Black	Refer to photo
M025	Soft plastic	Black	Refer to photo
M026a-2	Soft plastic	Green	Refer to photo (retest of M026a)
M027a-2	Soft plastic	Red	Refer to photo (retest of M027a)
M028	PCB	Green	Refer to photo

Test Report No.: 27220092a 001

Page 3 of 83

M029	Glue	Cream	Refer to photo
M030	Electronic components	Blue	Refer to photo
M031	Electronic components	Grass green	Refer to photo
M032	Electronic components	Black	Refer to photo
M033	Plastic + printing	Black/ white	Refer to photo
M034	Soft plastic	Black	Refer to photo
M035	Metal	Silvery	Refer to photo
M036	Magnet	Green/ black	Refer to photo
M037	Metal	Coppery	Refer to photo
M038	Plastic	Black	Refer to photo
M039	Metal	Silvery/ red	Refer to photo
M040	Soft plastic	Black	Refer to photo
M041	Plastic + printing + adhesive	Bright yellow/ black	Refer to photo
M042	Metal	Coppery	Refer to photo
M043	Soft plastic	Translucent white	Refer to photo
M044	Soft plastic	Black	Refer to photo
M045	Magnet	Black	Refer to photo
M046	Plastic	Black	Refer to photo
M047	Plastic + adhesive	Translucent	Refer to photo
M048a	Soft plastic	Translucent yellow	Refer to photo
M049	Magnet	Green	Refer to photo
M050	Metal	Coppery	Refer to photo
M051	Plastic + printing	Brown/ white	Refer to photo
M052	Metal	Silvery	Refer to photo
M053	Plastic	Black	Refer to photo
M054a	Plastic + printing	Yellow/ grey	Refer to photo
M054b	Glue	Yellow	Refer to photo
M055	Metal	Silvery	Refer to photo
M056	Metal	Silvery	Refer to photo
M057	Metal	Silvery	Refer to photo
M058	Plastic	Black	Refer to photo
M059	Solder	Silvery	Refer to photo

Test Report No.: 27220092a 001

Page 4 of 83

M060	Electronic components	Black/ white	Refer to photo
M061	Electronic components	Black	Refer to photo
M062	Electronic components	Black	Refer to photo
M063	Electronic components	White	Refer to photo
M064	Electronic components	Black	Refer to photo
M065	Electronic components	Black	Refer to photo
M066	Electronic components	Black	Refer to photo
M067	Electronic components	Black	Refer to photo
M068	Electronic components	Black	Refer to photo
M069	Electronic components	Black	Refer to photo
M070	Electronic components	Black	Refer to photo
M071	Electronic components	Black/ white	Refer to photo
M072	Electronic components	Brown	Refer to photo
M073	Soft plastic	Black	Refer to photo
M074	Metal	Golden	Refer to photo
M075	Soft plastic + adhesive	Black	Refer to photo
M076	Adhesive	Translucent	Refer to photo
M077a	Coating	Transparent/ black	Refer to photo
M077b	Coating	Brown	Refer to photo
M077c	Plastic	Black	Refer to photo
M078	Plastic	Black	Refer to photo
M079	Metal	Silvery	Refer to photo
M080	Glue	Transparent	Refer to photo
M081	Metal + plating	Silvery/ black	Refer to photo
M082-1	PCB	Green	Refer to photo (retest of M082, M083)
M084	Solder	Silvery	Refer to photo
M085	Metal	Silvery	Refer to photo
M086	Metal	Golden	Refer to photo
M087	Plastic	Orange	Refer to photo
M088	Electronic components	Black	Refer to photo
M089	Electronic components	Brown	Refer to photo
M090	Electronic components	Black	Refer to photo

Test Report No.: 27220092a 001

Page 5 of 83

M091	Solder	Silvery	Refer to photo
M093a	Coating	Black	Refer to photo
M093b	Metal	Silvery	Refer to photo
M094a	Coating	Transparent/ grey/ black	Refer to photo
M094b	Plastic	Black	Refer to photo
M095a	Coating	Black	Refer to photo
M095b	Plastic	Black	Refer to photo
M096	Textile	Black	Refer to photo
M097	Plastic	Black	Refer to photo
M098	Plastic	Translucent black	Refer to photo
M099	Soft plastic	Black	Refer to photo
M100	Soft plastic	Black	Refer to photo
M101	Plastic + printing	Brown/ black	Refer to photo
M102	Plastic + adhesive	Bright yellow/ Red	Refer to photo
M103	Plastic	Black	Refer to photo
M104-1	PCB	Off white	Refer to photo (retest of M104, M134, M138, M262)
M105	Metal	Silvery	Refer to photo
M106	Foam + adhesive	Black	Refer to photo
M107	Solder	Silvery	Refer to photo
M108	Foam + adhesive	Black	Refer to photo
M109	Soft plastic	Black	Refer to photo
M110	Metal	Silvery	Refer to photo
M111	Plastic	Black	Refer to photo
M112	Metal	Silvery	Refer to photo
M113	Metal	Silvery	Refer to photo
M114	Metal	Silvery	Refer to photo
M115	Plastic	Brown	Refer to photo
M116	Metal	Silvery	Refer to photo
M117	Plastic	Beige	Refer to photo
M118a	Soft plastic	Red	Refer to photo
M119a	Soft plastic	Black	Refer to photo
M120a	Soft plastic	White	Refer to photo

Test Report No.: 27220092a 001

Page 6 of 83

M121a	Coating	Transparent/ black	Refer to photo
M121b	Plastic	Black	Refer to photo
M122a	Coating + Adhesive	Black/ white	Refer to photo
M122b	Plastic	Transparent	Refer to photo
M123	Plastic + printing + adhesive	White/ black	Refer to photo
M124	Metal	Golden	Refer to photo
M125	Metal	Silvery	Refer to photo
M126	Metal + plating	Silvery/ black	Refer to photo
M127	Foam + adhesive	Black	Refer to photo
M128	Plastic	Black	Refer to photo
M129	Foam + adhesive	Black	Refer to photo
M130	Textile + adhesive	Black/ white	Refer to photo
M131	Plastic + adhesive	Transparent	Refer to photo
M133	Metal + plating	Silvery/ black	Refer to photo
M135	Foam + adhesive	Black	Refer to photo
M136	Solder	Silvery	Refer to photo
M137	Plastic	Beige	Refer to photo
M139	Electronic components	Black	Refer to photo
M140	Solder	Silvery	Refer to photo
M141	Soft plastic	Black	Refer to photo
M142a	Soft plastic	Black	Refer to photo
M142b	Metal	Silvery	Refer to photo
M143a	Soft plastic	Pink	Refer to photo
M144a	Plastic	Black	Refer to photo
M144b	Glue	White	Refer to photo
M145	Foam + adhesive	Black	Refer to photo
M146	Paper + printing + adhesive	White/ black	Refer to photo
M147	Foam + adhesive	Black	Refer to photo
M148	Foam + adhesive	Black	Refer to photo
M149	Glue	Transparent	Refer to photo
M150a	Soft plastic	Black	Refer to photo

Test Report No.: 27220092a 001

Page 7 of 83

M150b	Soft plastic	Transparent/ silvery	Refer to photo
M151a	Soft plastic	Dark grey	Refer to photo
M152	Metal	Golden	Refer to photo
M153	Plastic	Black	Refer to photo
M154	PCB	Black/ white	Refer to photo
M155	Solder	Silvery	Refer to photo
M156	Foam + adhesive	Black	Refer to photo
M158	Soft plastic	Black	Refer to photo
M159-1	Plastic	Black	Refer to photo (retest of M159)
M160a	Soft plastic	Black	Refer to photo
M160b	Glue	Transparent	Refer to photo
M161	Metal	Silvery	Refer to photo
M162a	Coating	Black	Refer to photo
M162b	Metal	Silvery	Refer to photo
M163	Metal	Silvery	Refer to photo
M164	Magnet	Grey black	Refer to photo
M165a	Soft plastic	Red	Refer to photo
M166a	Soft plastic	Black	Refer to photo
M167	Metal	Silvery	Refer to photo
M168	Plastic	Cream	Refer to photo
M169	Metal	Silvery	Refer to photo
M170a	Plastic	Black	Refer to photo
M170b	Glue	Black	Refer to photo
M171	Solder	Silvery	Refer to photo
M172	Metal	Copperty	Refer to photo
M173	Metal	Silvery	Refer to photo
M174	Metal	Silvery	Refer to photo
M175a	Soft plastic	Black	Refer to photo
M175b	Glue	Transparent	Refer to photo
M176	Plastic	Black	Refer to photo
M177	Paper	Black	Refer to photo
M178a	Textile	Brown	Refer to photo

Test Report No.: 27220092a 001

Page 8 of 83

M178b	Glue	Translucent	Refer to photo
M179a	Paper + plastic	Translucent brown/ khaki	Refer to photo
M179b	Glue	Translucent red	Refer to photo
M179c	Glue	Translucent blue	Refer to photo
M180	Metal	Coppery	Refer to photo
M181	Solder	Silvery	Refer to photo
M182	Metal	Silvery	Refer to photo
M183	Magnet	Grey black	Refer to photo
M184	Glue	Translucent beige	Refer to photo
M185	Textile + adhesive	Black	Refer to photo
M186a	Plastic	Black	Refer to photo
M186b	Glue	Translucent purple	Refer to photo
M187	Metal	Silvery	Refer to photo
M188	Metal	Silvery	Refer to photo
M189	Plastic	Translucent khaki	Refer to photo
M190	Foam + adhesive	Black	Refer to photo
M191	Magnet	Silvery	Refer to photo
M192a	Soft plastic	Yellow	Refer to photo
M193a	Soft plastic	Black	Refer to photo
M194a	Soft plastic	Green	Refer to photo
M195a	Soft plastic	White	Refer to photo
M196	Plastic	Black	Refer to photo
M197	Plastic	Red	Refer to photo
M198a	Soft plastic	Blue	Refer to photo
M199a	Soft plastic	Red	Refer to photo
M200	Metal	Silvery	Refer to photo
M201	Metal	Coppery	Refer to photo
M202	Metal	Silvery/ golden	Refer to photo
M203	Metal	Silvery	Refer to photo
M204	Solder	Silvery	Refer to photo
M205	Foam	Black	Refer to photo
M206a	Plastic	Black	Refer to photo

Test Report No.: 27220092a 001

Page 9 of 83

M206b	Glue	Black	Refer to photo
M206c	Glue	Translucent black	Refer to photo
M207	Foam + adhesive	Black	Refer to photo
M208	Plastic	Grey black	Refer to photo
M209	Plastic	Beige	Refer to photo
M210	Plastic + printing	Transparent blue/ black	Refer to photo
M211-1	PCB	White/ green	Refer to photo (retest of M211)
M212	PCB	White/ green	Refer to photo
M213a	Soft plastic	White	Refer to photo
M214-1	PCB	Green	Refer to photo (retest of M214)
M216	Plastic	Beige	Refer to photo
M217	Magnet	Grey black	Refer to photo
M218	Metal	Coppery	Refer to photo
M219	Electronic components	Black/ white	Refer to photo
M220	Electronic components	Black	Refer to photo
M221	Electronic components	Brown	Refer to photo
M222	Metal	Silvery/ black	Refer to photo
M223	Soft plastic	Black	Refer to photo
M224	Plastic	Black	Refer to photo
M225	Metal	Silvery/ grey	Refer to photo
M226	Soft plastic	Black	Refer to photo
M227	Electronic components	Black	Refer to photo
M228	Electronic components	Grey black	Refer to photo
M229	Electronic components	Black	Refer to photo
M230	Metal	Silvery	Refer to photo
M231	Metal	Golden	Refer to photo
M232	Plastic	Cream	Refer to photo
M233	Solder	Silvery	Refer to photo
M234	PCB	Green	Refer to photo
M235	Plastic + printing + paper + adhesive	White/ black/ yellow	Refer to photo
M236	Metal	Silvery	Refer to photo
M237	Electronic components	Black	Refer to photo

Test Report No.: 27220092a 001

Page 10 of 83

M238	Electronic components	Black	Refer to photo
M239	Electronic components	Black	Refer to photo
M240	Electronic components	Black	Refer to photo
M241	Metal	Silvery	Refer to photo
M242	Electronic components	Blue	Refer to photo
M243	Electronic components	Black	Refer to photo
M244	Textile + adhesive	Silvery grey	Refer to photo
M245	Magnet	Grey black	Refer to photo
M246	Magnet	Dark grey	Refer to photo
M247	Magnet	Grey black	Refer to photo
M248	Metal	Golden	Refer to photo
M249-1	Plastic	Black	Refer to photo (retest of M249, M215)
M250	Electronic components	Black	Refer to photo
M251	Electronic components	Black	Refer to photo
M252	Electronic components	White/ black	Refer to photo
M253	Electronic components	Black	Refer to photo
M254	Electronic components	Black	Refer to photo
M255	Solder	Silvery	Refer to photo
M256	Glue	Dull white	Refer to photo
M257	Electronic components	Black	Refer to photo
M258	Metal	Silvery	Refer to photo
M259	Electronic components	Black	Refer to photo
M260	Electronic components	Black	Refer to photo
M261	Electronic components	Black	Refer to photo
M263-1	Plastic	Black	Refer to photo (retest of M263, M132, M157)
M264a	Soft plastic	Black	Refer to photo
M264b	Glue	White	Refer to photo
M265	PCB	Black/ yellow	Refer to photo
M266	Metal	Silvery	Refer to photo
M267	Adhesive	Transparent	Refer to photo
M268	Textile + adhesive	Silvery grey	Refer to photo
M269	Electronic components	Transparent yellow	Refer to photo

Test Report No.: 27220092a 001

Page 11 of 83

M270	Electronic components	Transparent/ white	Refer to photo
M271	Solder	Silvery	Refer to photo
M272	Electronic components	Black	Refer to photo
M273	Electronic components	Transparent/ white	Refer to photo
M274-1	PCB	Green	Refer to photo (retest of M274)
M275	Metal	Silvery	Refer to photo
M276	Magnet	Black	Refer to photo
M277	Magnet	Grey black	Refer to photo
M278	Plastic	White	Refer to photo
M279	Plastic	White	Refer to photo
M280	Electronic components	Black	Refer to photo
M281-1	Plastic	Red/ white	Refer to photo (retest of M281)
M282	Solder	Silvery	Refer to photo
M283-1	Plastic	Black	Refer to photo (retest of M283, M092)
M284	Foam + adhesive	Black	Refer to photo
M285	Foam + adhesive	White	Refer to photo
M286	Plastic + printing + adhesive	White/ black	Refer to photo
M287	Plastic	Black	Refer to photo
M288a	Soft plastic	Red	Refer to photo
M289a	Soft plastic	Yellow	Refer to photo
M290a	Soft plastic	White	Refer to photo
M291a	Soft plastic	Black	Refer to photo
M292a	Plastic	White	Refer to photo
M292b	Glue	Transparent	Refer to photo
M293	Plastic	Black	Refer to photo
M294a	Soft plastic	Yellow	Refer to photo
M295	Paper + adhesive	White	Refer to photo
M296	Plastic + adhesive	Transparent yellow	Refer to photo
M297a	Soft plastic	Black	Refer to photo
M298	Solder	Silvery	Refer to photo
M299	Paper + adhesive	Dark green	Refer to photo
M300	Glue	White	Refer to photo

Test Report No.: 27220092a 001

Page 12 of 83

M301a	Soft plastic	Black	Refer to photo
M302	Plastic + adhesive	Black	Refer to photo
M303	PCB	Black	Refer to photo
M304	Solder	Silvery	Refer to photo
M305	Electronic components	Black/ white	Refer to photo
M306	Electronic components	Black	Refer to photo
M307	Electronic components	Black	Refer to photo
M308	Electronic components	White	Refer to photo
M309	Electronic components	Black	Refer to photo
M310	Electronic components	Black/ white	Refer to photo
M311	Electronic components	Black	Refer to photo
M312	Electronic components	Black	Refer to photo
M313	Metal	Silvery	Refer to photo
M314	Plastic + adhesive	Black	Refer to photo
M315	Plastic + adhesive	Black	Refer to photo
M316	Plastic + printing	Blue/ black	Refer to photo
M317	Metal	Silvery/ black	Refer to photo
M318	Plastic	White	Refer to photo
M319	Metal	Silvery	Refer to photo
M320	Metal	Silvery	Refer to photo
M321	Metal	Silvery	Refer to photo
M322	Plastic	Translucent white	Refer to photo
M323	Plastic	Translucent blue	Refer to photo
M324	Plastic + adhesive	Yellow	Refer to photo
M325	Metal	Coppery	Refer to photo
M326	Component(s)	Grey black	Refer to photo
M327	Component(s)	Black	Refer to photo
M328	Plastic	Translucent white	Refer to photo
M330	Plastic + printing + paper	Multi-color	Refer to photo
M331	Foam + adhesive	White/ black	Refer to photo
M332	Paper + printing + adhesive	White/ orange	Refer to photo

Test Report No.: 27220092a 001

Page 13 of 83

M333	Card board	Brown	Refer to photo
M334	Card board	Brown	Refer to photo
M335	Paper	Translucent white	Refer to photo
M336	Paper + printing	White/ blue	Refer to photo
M337-1	Silica gel	Brown	Refer to photo (retest of M337)
M338	Paper	Cream	Refer to photo
M339	Card board	Brown	Refer to photo
M340	Paper + printing	Multi-color	Refer to photo
M341	Metal	Silvery	Refer to photo
M342	Paper + printing	Black/ white	Refer to photo
M343	Adhesive	Transparent	Refer to photo
M344	Plastic + printing + paper	Multi-color	Refer to photo
M345	Plastic + adhesive	Transparent	Refer to photo
M346	Card board + printing	Brown/ black/ red	Refer to photo
M347	Paper + printing	White/ black	Refer to photo
M348	Soft plastic	Black	Refer to photo
M349	Plastic + printing	Green/ white	Refer to photo
M350	Plastic	Silvery	Refer to photo
M351	Plastic + adhesive	Transparent	Refer to photo
M352	Paper	Khaki	Refer to photo
M353	Metal	Grey	Refer to photo
M354	Plastic	Black	Refer to photo
M355-1	Plastic + printing	Black/ grey	Refer to photo (retest of M355)
M356	Plastic	Black	Refer to photo
M357	Metal	Silvery	Refer to photo
M358	Metal	Silvery	Refer to photo
M359	Soft plastic	Black	Refer to photo
M360a	Soft plastic	Green	Refer to photo
M361a	Soft plastic	Red	Refer to photo
M362	Plastic	Black	Refer to photo
M363	PCB	Green	Refer to photo
M364	Solder	Silvery	Refer to photo

Test Report No.: 27220092a 001

Page 14 of 83

M365	Soft plastic	Black	Refer to photo
M366	Soft plastic	Black	Refer to photo
M367	Plastic	Black	Refer to photo
M368	Metal	Silvery	Refer to photo
M369a	Soft plastic	Blue	Refer to photo
M370a	Soft plastic	Brown	Refer to photo
M371	Soft plastic	Black	Refer to photo
M372	Plastic	Black	Refer to photo
M373	Metal	Coppery	Refer to photo
M374	Plastic	Black	Refer to photo
M375	Plastic + printing	Black/ grey	Refer to photo
M376	Soft plastic	Black	Refer to photo
M377	Soft plastic	Black	Refer to photo
M378	Plastic	Black	Refer to photo
M379	Soft plastic	Black	Refer to photo
M380	Plastic	Silvery/ transparent blue	Refer to photo
M381a	Soft plastic	Red	Refer to photo
M382a	Soft plastic	Black	Refer to photo
M383a	Soft plastic	Green	Refer to photo
M384	Textile	White	Refer to photo
M385	PCB	Green	Refer to photo
M386	Plastic	Black	Refer to photo
M387	Metal	Silvery	Refer to photo
M388	Metal	Silvery	Refer to photo
M389	Magnet	Black	Refer to photo
M390	Metal	Coppery	Refer to photo
M391	Plastic + printing	Black/ white	Refer to photo
M392	Soft plastic	Black	Refer to photo
M393	Metal	Silvery/ red	Refer to photo
M394	Soft plastic	Black	Refer to photo
M395	Electronic components	Black	Refer to photo
M396	Solder	Silvery	Refer to photo

Test Report No.: 27220092a 001

Page 15 of 83

M397	Soft plastic	Black	Refer to photo
M398	Coating	Black	Refer to photo
M399	PCB	Green	Refer to photo
M400	Solder	Silvery	Refer to photo
M401	Plastic	White	Refer to photo
M402	Plastic + printing	White/ black	Refer to photo
M403	Plastic	White	Refer to photo
M404	Soft plastic	White	Refer to photo
M405	Soft plastic	White	Refer to photo
M406	Soft plastic	White	Refer to photo
M407	Plastic	White	Refer to photo
M408a	Coating	Translucent white/ grey	Refer to photo
M408b	Plastic	White	Refer to photo
M409	Soft plastic	White	Refer to photo
M410a	Coating	White/ grey	Refer to photo
M410b	Plastic	White	Refer to photo
M411a	Coating	White	Refer to photo
M411b	Plastic	White	Refer to photo
M412a	Coating	White/ black	Refer to photo
M413	Soft plastic	White	Refer to photo
M414	Plastic	White	Refer to photo
M415	Soft plastic	Cream	Refer to photo
M416a	Coating	White/ black/ transparent	Refer to photo
M416b	Plastic	White	Refer to photo
M417a	Coating + Adhesive	White/ grey	Refer to photo
M417b	Plastic	Transparent	Refer to photo
M418	Plastic	White	Refer to photo
M420	Plastic	White	Refer to photo
M421	Foam + adhesive	White	Refer to photo
M422	Plastic	White	Refer to photo
M423	Plastic	White	Refer to photo
M424-1	Plastic	White	Refer to photo (retest of M424)

Test Report No.: 27220092a 001

Page 16 of 83

M425	Plastic	White	Refer to photo
M427-1	Plastic	White	Refer to photo (retest of M427, M419, M426)
M428	Plastic + printing + paper	Multi-color	Refer to photo
M429	Plastic + printing + paper	White/ red	Refer to photo
M430	Plastic + printing	White/ black	Refer to photo
M431	Plastic	White	Refer to photo
M432	Soft plastic	White	Refer to photo
M433	Soft plastic	White/ black	Refer to photo
M434	Soft plastic	White	Refer to photo
M435	Plastic	White	Refer to photo
M436	Soft plastic	White	Refer to photo
M437	Plastic	White	Refer to photo
M438	Soft plastic	White	Refer to photo
M439	Soft plastic	White	Refer to photo
M440	Soft plastic	White	Refer to photo
M441	Plastic	Off white	Refer to photo
M442	Metal	Coppery	Refer to photo

Test Report No.: 27220092a 001

Page 17 of 83

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
M001	BL	BL	BL	BL	BL
M002	BL	BL	BL	BL	BL
M003	BL	d.(*1)	BL	BL	n.a.
M004	BL	BL	BL	BL	n.a.
M005	BL	BL	BL	BL	BL
M006	BL	BL	BL	BL	d.(*1)
M007	BL	BL	BL	BL	n.a.
M008	BL	BL	BL	BL	BL
M009	BL	BL	BL	BL	BL
M010a	BL	BL	BL	BL	BL
M010b	BL	BL	BL	BL	n.a.
M011a	BL	BL	BL	BL	BL
M012a	BL	BL	BL	BL	BL
M013a	BL	BL	BL	BL	BL
M014	BL	BL	BL	BL	n.a.
M015	BL	BL	BL	BL	BL
M016	BL	BL	BL	BL	BL
M017	BL	BL	BL	BL	BL
M018	BL	BL	BL	BL	n.a.
M019	BL	BL	BL	BL	BL
M020	BL	d.(*1)	BL	BL	n.a.
M021	BL	BL	BL	BL	BL
M022	BL	BL	BL	BL	d.(*1)
M023	BL	d.(*1)	BL	BL	n.a.
M024	BL	BL	BL	BL	BL
M025	BL	BL	BL	BL	BL
M026a-2	BL	BL	BL	BL	BL
M027a-2	BL	BL	BL	BL	BL
M028	BL	BL	BL	BL	BL
M029	BL	BL	BL	BL	BL
M030	BL	BL	BL	BL	BL
M031	BL	d.(*1)	BL	BL	BL
M032	BL	BL	d.(*1)	BL	BL
M033	BL	BL	BL	BL	BL
M034	BL	BL	BL	BL	BL
M035	BL	BL	BL	BL	n.a.
M036	BL	BL	BL	BL	n.a.

Test Report No.: 27220092a 001

Page 18 of 83

M037	BL	BL	BL	BL	n.a.
M038	BL	BL	BL	BL	BL
M039	BL	BL	BL	BL	n.a.
M040	BL	BL	BL	BL	BL
M041	BL	BL	BL	BL	BL
M042	BL	BL	BL	BL	n.a.
M043	BL	BL	BL	BL	BL
M044	BL	BL	BL	BL	BL
M045	BL	BL	BL	BL	n.a.
M046	BL	BL	BL	BL	BL
M047	BL	BL	BL	BL	BL
M048a	BL	BL	BL	BL	BL
M049	BL	BL	BL	BL	n.a.
M050	BL	BL	BL	BL	n.a.
M051	BL	BL	BL	BL	BL
M052	BL	BL	BL	BL	n.a.
M053	BL	BL	BL	BL	BL
M054a	BL	BL	BL	BL	BL
M054b	BL	BL	BL	BL	BL
M055	BL	BL	BL	BL	n.a.
M056	BL	d.(*1)	BL	BL	n.a.
M057	BL	d.(*1)	BL	BL	n.a.
M058	BL	BL	BL	BL	BL
M059	BL	BL	BL	BL	n.a.
M060	BL	BL	d.(*1)	BL	BL
M061	BL	BL	d.(*1)	BL	BL
M062	BL	BL	BL	BL	BL
M063	BL	BL	BL	BL	BL
M064	BL	BL	BL	BL	BL
M065	BL	BL	BL	BL	BL
M066	BL	BL	BL	BL	BL
M067	BL	BL	BL	BL	BL
M068	BL	BL	d.(*1)	BL	BL
M069	BL	BL	d.(*1)	BL	BL
M070	BL	BL	BL	BL	BL
M071	BL	BL	BL	BL	BL
M072	BL	BL	BL	BL	BL
M073	BL	BL	BL	BL	BL
M074	BL	BL	BL	BL	n.a.
M075	BL	BL	BL	BL	BL
M076	BL	BL	BL	BL	BL
M077a	BL	BL	BL	BL	BL
M077b	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 19 of 83

M077c	BL	BL	BL	BL	BL
M078	BL	BL	BL	BL	BL
M079	BL	d.(*1)	BL	BL	n.a.
M080	BL	BL	BL	BL	BL
M081	BL	d.(*1)	BL	BL	n.a.
M082-1	BL	BL	BL	BL	BL
M084	BL	BL	BL	BL	n.a.
M085	BL	d.(*1)	BL	BL	n.a.
M086	BL	BL	BL	BL	n.a.
M087	BL	BL	BL	BL	BL
M088	BL	BL	BL	BL	BL
M089	BL	BL	BL	BL	BL
M090	BL	d.(*1)	BL	BL	d.(*1)
M091	BL	d.(*1)	BL	BL	n.a.
M093a	BL	BL	BL	BL	BL
M093b	BL	BL	BL	BL	n.a.
M094a	BL	BL	BL	BL	BL
M094b	BL	BL	BL	BL	BL
M095a	BL	BL	BL	BL	BL
M095b	BL	BL	BL	BL	BL
M096	BL	BL	BL	BL	BL
M097	BL	BL	BL	BL	d.(*1)
M098	BL	BL	BL	BL	BL
M099	BL	BL	BL	BL	BL
M100	BL	BL	BL	BL	BL
M101	BL	BL	BL	BL	BL
M102	BL	BL	BL	BL	BL
M103	BL	BL	BL	BL	BL
M104-1	BL	BL	BL	BL	BL
M105	BL	d.(*1)	BL	BL	n.a.
M106	BL	BL	BL	BL	BL
M107	BL	BL	BL	BL	n.a.
M108	BL	BL	BL	BL	BL
M109	BL	BL	BL	BL	BL
M110	BL	BL	BL	BL	n.a.
M111	BL	BL	BL	BL	BL
M112	BL	BL	BL	BL	n.a.
M113	BL	BL	BL	BL	n.a.
M114	BL	BL	BL	BL	n.a.
M115	BL	BL	BL	BL	BL
M116	BL	BL	BL	BL	n.a.
M117	BL	BL	BL	BL	BL
M118a	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 20 of 83

M119a	BL	BL	BL	BL	BL
M120a	BL	BL	BL	BL	BL
M121a	BL	BL	BL	BL	BL
M121b	BL	BL	BL	BL	BL
M122a	BL	BL	BL	BL	BL
M122b	BL	BL	BL	BL	BL
M123	BL	BL	BL	BL	BL
M124	BL	BL	BL	BL	n.a.
M125	BL	d.(*1)	d.(*1)	BL	n.a.
M126	BL	d.(*1)	BL	BL	n.a.
M127	BL	BL	BL	BL	BL
M128	BL	BL	BL	BL	BL
M129	BL	BL	BL	BL	BL
M130	BL	BL	BL	BL	BL
M131	BL	BL	BL	BL	BL
M133	BL	d.(*1)	BL	BL	n.a.
M135	BL	BL	BL	BL	BL
M136	BL	d.(*1)	BL	BL	n.a.
M137	BL	BL	BL	BL	BL
M139	BL	BL	BL	BL	BL
M140	BL	BL	BL	BL	n.a.
M141	BL	BL	BL	BL	BL
M142a	BL	BL	BL	BL	BL
M142b	BL	BL	BL	BL	n.a.
M143a	BL	BL	BL	BL	BL
M144a	BL	BL	BL	BL	BL
M144b	BL	BL	BL	BL	BL
M145	BL	BL	BL	BL	BL
M146	BL	BL	BL	BL	BL
M147	BL	BL	BL	BL	BL
M148	BL	BL	BL	BL	BL
M149	BL	BL	BL	BL	BL
M150a	BL	BL	BL	BL	BL
M150b	BL	BL	BL	BL	BL
M151a	BL	BL	BL	BL	BL
M152	BL	BL	BL	BL	n.a.
M153	BL	BL	BL	BL	BL
M154	BL	BL	BL	BL	BL
M155	BL	BL	BL	BL	n.a.
M156	BL	BL	BL	BL	BL
M158	BL	BL	BL	BL	BL
M159-1	BL	BL	BL	BL	BL
M160a	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 21 of 83

M160b	BL	BL	BL	BL	BL
M161	BL	d.(*1)	BL	BL	n.a.
M162a	BL	BL	BL	BL	BL
M162b	BL	BL	BL	BL	n.a.
M163	BL	BL	BL	BL	n.a.
M164	BL	BL	BL	BL	n.a.
M165a	BL	BL	BL	BL	BL
M166a	BL	BL	BL	BL	BL
M167	BL	BL	BL	BL	n.a.
M168	BL	BL	BL	BL	BL
M169	BL	BL	BL	BL	n.a.
M170a	BL	BL	BL	BL	BL
M170b	BL	BL	BL	BL	BL
M171	BL	BL	BL	BL	n.a.
M172	BL	d.(*1)	BL	BL	n.a.
M173	BL	BL	BL	BL	n.a.
M174	BL	BL	BL	BL	n.a.
M175a	BL	BL	BL	BL	BL
M175b	BL	BL	BL	BL	BL
M176	BL	BL	BL	BL	BL
M177	BL	BL	BL	BL	BL
M178a	BL	BL	BL	BL	BL
M178b	BL	BL	BL	BL	BL
M179a	BL	BL	BL	BL	BL
M179b	BL	BL	BL	BL	BL
M179c	BL	BL	BL	BL	BL
M180	BL	BL	BL	BL	n.a.
M181	BL	BL	BL	BL	n.a.
M182	BL	BL	BL	BL	n.a.
M183	BL	BL	BL	BL	n.a.
M184	BL	BL	BL	BL	BL
M185	BL	BL	BL	BL	BL
M186a	BL	BL	BL	BL	BL
M186b	BL	BL	BL	BL	BL
M187	BL	BL	BL	BL	n.a.
M188	BL	d.(*1)	BL	BL	n.a.
M189	BL	BL	BL	BL	BL
M190	BL	BL	BL	BL	BL
M191	BL	BL	BL	BL	n.a.
M192a	BL	BL	BL	BL	BL
M193a	BL	BL	BL	BL	BL
M194a	BL	BL	BL	BL	BL
M195a	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 22 of 83

M196	BL	BL	BL	BL	BL
M197	BL	BL	BL	BL	BL
M198a	BL	BL	BL	BL	BL
M199a	BL	BL	BL	BL	BL
M200	BL	d.(*1)	BL	BL	n.a.
M201	BL	BL	BL	BL	n.a.
M202	BL	d.(*1)	BL	BL	n.a.
M203	BL	BL	BL	BL	n.a.
M204	BL	BL	BL	BL	n.a.
M205	BL	BL	BL	BL	BL
M206a	BL	BL	BL	BL	BL
M206b	BL	BL	BL	BL	d.(*1)
M206c	BL	BL	BL	BL	BL
M207	BL	BL	BL	BL	BL
M208	BL	BL	BL	BL	BL
M209	BL	BL	BL	BL	BL
M210	BL	BL	BL	BL	BL
M211-1	BL	BL	BL	BL	BL
M212	BL	BL	BL	BL	BL
M213a	BL	BL	BL	BL	BL
M214-1	BL	BL	BL	BL	BL
M216	BL	BL	BL	BL	BL
M217	BL	BL	BL	BL	n.a.
M218	BL	BL	BL	BL	n.a.
M219	BL	BL	BL	BL	BL
M220	BL	BL	BL	BL	BL
M221	BL	BL	BL	BL	BL
M222	BL	BL	BL	BL	n.a.
M223	BL	BL	BL	BL	BL
M224	BL	BL	BL	BL	BL
M225	BL	BL	BL	BL	n.a.
M226	BL	BL	BL	BL	BL
M227	BL	BL	BL	BL	BL
M228	BL	BL	BL	BL	BL
M229	BL	BL	BL	BL	BL
M230	BL	d.(*1)	BL	BL	n.a.
M231	BL	BL	BL	BL	n.a.
M232	BL	BL	BL	BL	BL
M233	BL	BL	BL	BL	n.a.
M234	BL	BL	BL	BL	BL
M235	BL	BL	BL	BL	BL
M236	BL	BL	BL	BL	n.a.
M237	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 23 of 83

M238	BL	d.(*1)	BL	BL	n.a.
M239	BL	BL	BL	BL	BL
M240	BL	d.(*1)	BL	BL	BL
M241	BL	BL	BL	BL	n.a.
M242	BL	BL	BL	BL	BL
M243	BL	BL	BL	BL	BL
M244	BL	BL	BL	BL	BL
M245	BL	BL	BL	BL	n.a.
M246	BL	d.(*1)	BL	BL	n.a.
M247	BL	BL	BL	BL	n.a.
M248	BL	BL	BL	BL	n.a.
M249-1	BL	BL	BL	BL	BL
M250	BL	BL	BL	BL	BL
M251	BL	BL	BL	BL	BL
M252	BL	BL	BL	BL	BL
M253	BL	BL	BL	BL	BL
M254	BL	BL	BL	BL	BL
M255	BL	BL	BL	BL	n.a.
M256	BL	BL	BL	BL	BL
M257	BL	BL	BL	BL	BL
M258	BL	BL	BL	BL	n.a.
M259	BL	BL	BL	BL	d.(*1)
M260	BL	BL	BL	BL	BL
M261	BL	BL	BL	BL	d.(*1)
M263-1	BL	BL	BL	BL	BL
M264a	BL	BL	BL	BL	BL
M264b	BL	BL	BL	BL	BL
M265	BL	BL	BL	BL	BL
M266	BL	d.(*1)	BL	BL	n.a.
M267	BL	BL	BL	BL	BL
M268	BL	BL	BL	BL	BL
M269	BL	BL	BL	BL	BL
M270	BL	BL	BL	BL	BL
M271	BL	BL	BL	BL	n.a.
M272	BL	BL	BL	BL	BL
M273	BL	BL	BL	BL	BL
M274-1	BL	BL	BL	BL	BL
M275	BL	d.(*1)	BL	BL	n.a.
M276	BL	BL	BL	BL	n.a.
M277	BL	BL	BL	BL	n.a.
M278	BL	BL	BL	BL	BL
M279	BL	BL	BL	BL	BL
M280	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 24 of 83

M281-1	BL	BL	BL	BL	BL
M282	BL	BL	BL	BL	n.a.
M283-1	BL	BL	BL	BL	BL
M284	BL	BL	BL	BL	BL
M285	BL	BL	BL	BL	BL
M286	BL	BL	BL	BL	BL
M287	BL	BL	BL	BL	BL
M288a	BL	BL	BL	BL	BL
M289a	BL	BL	BL	BL	BL
M290a	BL	BL	BL	BL	BL
M291a	BL	BL	BL	BL	BL
M292a	BL	BL	BL	BL	BL
M292b	BL	BL	BL	BL	BL
M293	BL	BL	BL	BL	BL
M294a	BL	BL	BL	BL	BL
M295	BL	BL	BL	BL	BL
M296	BL	BL	BL	BL	BL
M297a	BL	BL	BL	BL	BL
M298	BL	BL	BL	BL	n.a.
M299	BL	BL	BL	BL	BL
M300	BL	BL	BL	BL	BL
M301a	BL	BL	BL	BL	BL
M302	BL	BL	BL	BL	BL
M303	BL	BL	BL	BL	d.(*1)
M304	BL	BL	BL	BL	n.a.
M305	BL	BL	BL	BL	BL
M306	BL	BL	BL	BL	BL
M307	BL	BL	d.(*1)	BL	BL
M308	BL	BL	BL	BL	BL
M309	BL	BL	BL	BL	BL
M310	BL	d.(*1)	BL	BL	BL
M311	BL	BL	BL	BL	BL
M312	BL	BL	BL	BL	BL
M313	BL	BL	BL	BL	n.a.
M314	BL	BL	BL	BL	BL
M315	BL	BL	BL	BL	BL
M316	BL	BL	BL	BL	BL
M317	BL	BL	BL	BL	n.a.
M318	BL	BL	BL	BL	BL
M319	BL	BL	BL	BL	n.a.
M320	BL	BL	BL	BL	n.a.
M321	BL	d.(*1)	BL	BL	n.a.
M322	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 25 of 83

M323	BL	BL	BL	BL	BL
M324	BL	BL	BL	BL	BL
M325	BL	BL	BL	BL	n.a.
M326	BL	BL	BL	BL	BL
M327	BL	BL	BL	BL	BL
M328	BL	BL	BL	BL	BL
M330	BL	BL	BL	BL	BL
M331	BL	BL	BL	BL	BL
M332	BL	BL	BL	BL	BL
M333	BL	BL	BL	BL	BL
M334	BL	BL	BL	BL	BL
M335	BL	BL	BL	BL	BL
M336	BL	BL	BL	BL	d.(*1)
M337-1	BL	BL	BL	BL	BL
M338	BL	BL	BL	BL	BL
M339	BL	BL	BL	BL	BL
M340	BL	BL	BL	BL	BL
M341	BL	BL	BL	BL	n.a.
M342	BL	BL	BL	BL	BL
M343	BL	BL	BL	BL	BL
M344	BL	BL	BL	BL	BL
M345	BL	BL	BL	BL	BL
M346	BL	BL	BL	BL	BL
M347	BL	BL	BL	BL	BL
M348	BL	BL	BL	BL	BL
M349	BL	BL	BL	BL	BL
M350	BL	BL	BL	BL	BL
M351	BL	BL	BL	BL	BL
M352	BL	BL	BL	BL	BL
M353	BL	BL	BL	BL	n.a.
M354	BL	BL	BL	BL	BL
M355-1	BL	BL	BL	BL	BL
M356	BL	BL	BL	BL	BL
M357	BL	BL	d.(*1)	BL	n.a.
M358	BL	d.(*1)	BL	BL	n.a.
M359	BL	BL	BL	BL	BL
M360a	BL	BL	BL	BL	BL
M361a	BL	BL	BL	BL	BL
M362	BL	BL	BL	BL	BL
M363	BL	BL	BL	BL	d.(*1)
M364	BL	BL	BL	BL	n.a.
M365	BL	BL	BL	BL	BL
M366	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 26 of 83

M367	BL	BL	BL	BL	d.(*1)
M368	BL	BL	BL	BL	n.a.
M369a	BL	BL	BL	BL	BL
M370a	BL	BL	BL	BL	BL
M371	BL	BL	BL	BL	BL
M372	BL	BL	BL	BL	d.(*1)
M373	BL	BL	BL	BL	n.a.
M374	BL	BL	BL	BL	BL
M375	BL	BL	BL	BL	BL
M376	BL	BL	BL	BL	BL
M377	BL	BL	BL	BL	BL
M378	BL	BL	BL	BL	BL
M379	BL	BL	BL	BL	BL
M380	BL	BL	BL	BL	BL
M381a	BL	BL	BL	BL	BL
M382a	BL	BL	BL	BL	BL
M383a	BL	BL	BL	BL	BL
M384	BL	BL	BL	BL	BL
M385	BL	BL	BL	BL	BL
M386	BL	BL	BL	BL	BL
M387	BL	BL	BL	BL	n.a.
M388	BL	BL	BL	BL	n.a.
M389	BL	d.(*1)	BL	BL	n.a.
M390	BL	BL	BL	BL	n.a.
M391	BL	BL	BL	BL	BL
M392	BL	BL	BL	BL	BL
M393	BL	BL	BL	BL	n.a.
M394	BL	BL	BL	BL	BL
M395	BL	BL	d.(*1)	BL	BL
M396	BL	BL	BL	BL	n.a.
M397	BL	BL	BL	BL	BL
M398	BL	BL	BL	BL	BL
M399	BL	BL	BL	BL	BL
M400	BL	BL	BL	BL	n.a.
M401	BL	BL	BL	BL	d.(*1)
M402	BL	BL	BL	BL	d.(*1)
M403	BL	BL	BL	BL	BL
M404	BL	BL	BL	BL	BL
M405	BL	BL	BL	BL	BL
M406	BL	BL	BL	BL	BL
M407	BL	BL	BL	BL	BL
M408a	BL	BL	BL	BL	BL
M408b	BL	BL	BL	BL	BL

Test Report No.: 27220092a 001

Page 27 of 83

M409	BL	BL	BL	BL	BL
M410a	BL	BL	BL	BL	BL
M410b	BL	BL	BL	BL	BL
M411a	BL	BL	BL	BL	BL
M411b	BL	BL	BL	BL	BL
M412a	BL	BL	BL	BL	BL
M413	BL	BL	BL	BL	BL
M414	BL	BL	BL	BL	BL
M415	BL	BL	BL	BL	BL
M416a	BL	BL	BL	BL	BL
M416b	BL	BL	BL	BL	BL
M417a	BL	BL	BL	BL	BL
M417b	BL	BL	BL	BL	BL
M418	BL	BL	BL	BL	BL
M420	BL	BL	BL	BL	BL
M421	BL	BL	BL	BL	BL
M422	BL	BL	BL	BL	BL
M423	BL	BL	BL	BL	BL
M424-1	BL	BL	BL	BL	BL
M425	BL	BL	BL	BL	BL
M427-1	BL	BL	BL	BL	BL
M428	BL	BL	BL	BL	BL
M429	BL	BL	BL	BL	BL
M430	BL	BL	BL	BL	BL
M431	BL	BL	BL	BL	BL
M432	BL	BL	BL	BL	BL
M433	BL	BL	BL	BL	BL
M434	BL	BL	BL	BL	BL
M435	BL	BL	BL	BL	BL
M436	BL	BL	BL	BL	BL
M437	BL	BL	BL	BL	d.(*1)
M438	BL	BL	BL	BL	BL
M439	BL	BL	BL	BL	BL
M440	BL	BL	BL	BL	BL
M441	BL	BL	BL	BL	d.(*1)
M442	BL	BL	BL	BL	n.a.

Test Report No.: 27220092a 001

Page 28 of 83

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

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
Polymeric	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
Metallic	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.
Composite materials	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.

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Test Report No.: 27220092a 001

Page 29 of 83

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:

	Cd	Cr(VI)	Pb	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	(%)					
	Cd	Cr^{VI}	Pb	Hg	PBBs	PBDEs
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M006	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M022	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M032	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.
M060	n.a.	n.a.	0.116(*4)	n.a.	n.a.	n.a.
M061	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.
M068	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.
M069	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.
M090	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M097	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M125	n.a.	n.a.	0.263(*3)	n.a.	n.a.	n.a.
M206b	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M259	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M261	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M303	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M307	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.
M336	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M357	n.a.	n.a.	1.64(*3)	n.a.	n.a.	n.a.
M363	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M367	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M372	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M395	n.a.	n.a.	(*5)	n.a.	n.a.	n.a.

Test Report No.: 27220092a 001

Page 30 of 83

M401	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M402	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M437	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M441	n.a.	n.a.	n.a.	n.a.	< RL	< RL

Material No.	Chromium VI content for metal materials ($\mu\text{g}/\text{cm}^2$) (*1) RL: 0.10 $\mu\text{g}/\text{cm}^2$
M003	Negative
M020	Negative
M023	Negative
M056	Negative
M057	Negative
M079	Negative
M081	Negative
M085	Negative
M091	Negative
M105	Negative
M125	Negative
M126	Negative
M133	Negative
M136	Negative
M161	Negative
M172	Negative
M188	Negative
M200	Negative
M202	Negative
M230	Negative
M238	Negative
M246	Negative
M266	Negative
M275	Negative
M321	Negative
M358	Negative
M389	Negative

Test Report No.: 27220092a 001

Page 31 of 83

Material No.	Chromium VI content for other materials (%) RL: 0.01%
M031	< RL
M090	< RL
M240	< RL
M310	< 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	$<0.1 \mu\text{g}/\text{cm}^2$	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	$\geq 0.1 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$	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 trials for the final determination.
Positive	$>0.13 \mu\text{g}/\text{cm}^2$	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).

- (*2) The Chromium (VI) content of polymer sample or electronic sample have been confirmed with reference to IEC 62321-7-2:2017
- (*3) According to (EU) 2025/2364 and Annex III of directive 2011/65/EU, 6(c), as a copper alloy containing up to 4% lead by weight are exempted from requirement. This exemption applies to testing sample No.: M125, M357.
It is considered that M357 may be placed in the mouth by children, so the the rate of lead release from such material has been performed and does not exceed $0.05 \mu\text{g}/\text{cm}^2$ per hour, detailed results can refer to subsequent page(s).
- (*4) According to (EU) 2025/2363 and Annex III of directive 2011/65/EU, 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 is exempted from requirement. This exemption applies to testing sample No.: M060.

Test Report No.: 27220092a 001

Page 32 of 83

- (*5) According to the declaration of client and (EU) 2025/1802 and Annex III of directive 2011/65/EU, 7 (a), lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) is exempted from requirement. This exemption applies to testing sample No.: M032, M061, M068, M069, M307, M395. However, due to the lack of samples the client submitted, the lead content of solder was not further tested.

Test Report No.: 27220092a 001

Page 33 of 83

Lead Release

Test Method: EN 16711-3:2019

Test Result :

Test No.	Material No.	Trial	Surface area (cm ²)	Test solution volume (ml)	Dilution volume (ml)	Lead released (µg/cm ² /hour)	RL (µg/cm ² /hour)
T001	M357	1	1.34	2.0	10	<RL	0.01
		2	1.34	2.0	10	<RL	0.01
		3	1.34	2.0	10	<RL	0.01
		4	1.34	2.0	10	<RL	0.01
		5	1.34	2.0	10	<RL	0.01
		6	1.34	2.0	10	<RL	0.01

Abbreviation: < = less than
 RL = Reporting Limit
 ml = milliliters
 cm² = square centimeters
 µg/cm²/hour = micrograms per one square centimeter per hour

Remark:

** The sample of trial 1, 2 and 3 were tested without EN 12472.

*** The sample of trial 4, 5 and 6 were tested according to EN 12472..

Test Report No.: 27220092a 001

Page 34 of 83

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
T058	M170b	< RL	< RL	< RL	< RL
T071	M179c	< RL	< RL	< RL	< RL
T072	M160b	< RL	< RL	< RL	< RL
T084	M398	< RL	< RL	< RL	< RL
T086	M355-1	< RL	< RL	< RL	< RL
T094	M411a	< RL	< RL	< RL	< RL
T099	M417a	< RL	0.016	< RL	< RL
T100	M159-1	< RL	< RL	< RL	< RL
T107	M436	< RL	< RL	< RL	< RL
T111	M095a	< RL	< RL	< RL	< RL
T113	M424-1	< RL	< RL	< RL	< RL
T114	M077a	< RL	< RL	< RL	< RL
T115	M094a	< RL	< RL	< RL	< RL
T116	M093a	< RL	< RL	< RL	< RL
T117	M121a	< RL	< RL	< RL	< RL
T118	M408a	< RL	< RL	< RL	< RL
T119	M001	< RL	< RL	< RL	< RL
T120	M002	< RL	< RL	< RL	< RL
T121	M073	< RL	< RL	< RL	< RL
T125	M075	< RL	< RL	< RL	< RL
T126	M099	< RL	< RL	< RL	< RL
T127	M100	< RL	< RL	< RL	< RL
T128	M016	< RL	< RL	< RL	< RL
T129	M017	< RL	< RL	< RL	< RL
T130	M021	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 35 of 83

T131	M077c	< RL	< RL	< RL	< RL
T132	M094b	< RL	< RL	< RL	< RL
T133	M121b	< RL	< RL	< RL	< RL
T134	M095b	< RL	< RL	< RL	< RL
T135	M098	< RL	< RL	< RL	< RL
T136	M101	< RL	< RL	< RL	< RL
T137	M122b	< RL	< RL	< RL	< RL
T138	M123	< RL	< RL	< RL	< RL
T139	M330	< RL	< RL	< RL	< RL
T140	M344	< RL	< RL	< RL	< RL
T141	M345	< RL	< RL	< RL	< RL
T142	M331	< RL	< RL	< RL	< RL
T143	M343	< RL	< RL	< RL	< RL
T144	M106	< RL	< RL	< RL	< RL
T145	M108	< RL	< RL	< RL	< RL
T146	M127	< RL	< RL	< RL	< RL
T147	M129	< RL	< RL	< RL	< RL
T148	M135	< RL	< RL	< RL	< RL
T149	M145	< RL	< RL	< RL	< RL
T150	M147	< RL	< RL	< RL	< RL
T151	M148	< RL	< RL	< RL	< RL
T152	M156	< RL	< RL	< RL	< RL
T153	M190	< RL	< RL	< RL	< RL
T154	M207	< RL	< RL	< RL	< RL
T155	M244	< RL	< RL	< RL	< RL
T156	M205	< RL	< RL	< RL	< RL
T157	M268	< RL	< RL	< RL	< RL
T158	M285	< RL	< RL	< RL	< RL
T159	M029	< RL	< RL	< RL	< RL
T160	M080	< RL	< RL	< RL	< RL
T161	M178b	< RL	< RL	< RL	< RL
T162	M175b	< RL	< RL	< RL	< RL
T163	M186b	< RL	< RL	< RL	< RL
T164	M256	< RL	< RL	< RL	< RL
T165	M054b	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 36 of 83

T166	M144b	< RL	< RL	< RL	< RL
T167	M149	< RL	< RL	< RL	< RL
T168	M179b	< RL	< RL	< RL	< RL
T169	M184	< RL	< RL	< RL	< RL
T170	M300	< RL	< RL	< RL	< RL
T171	M028	< RL	< RL	< RL	< RL
T178	M265	< RL	< RL	< RL	< RL
T180	M006	< RL	< RL	< RL	< RL
T181	M234	< RL	< RL	< RL	< RL
T182	M303	< RL	< RL	< RL	< RL
T183	M154	< RL	< RL	< RL	< RL
T185	M212	< RL	< RL	< RL	< RL
T186	M010a	< RL	< RL	< RL	< RL
T187	M011a	< RL	< RL	< RL	< RL
T188	M012a	< RL	< RL	< RL	< RL
T189	M013a	< RL	< RL	< RL	< RL
T192	M025	< RL	< RL	< RL	< RL
T193	M034	< RL	< RL	< RL	< RL
T194	M040	< RL	< RL	< RL	< RL
T195	M043	< RL	< RL	< RL	< RL
T196	M044	< RL	< RL	< RL	< RL
T197	M048a	< RL	< RL	< RL	< RL
T198	M118a	< RL	< RL	< RL	< RL
T199	M119a	< RL	< RL	< RL	< RL
T200	M120a	< RL	< RL	< RL	< RL
T201	M109	< RL	< RL	< RL	< RL
T202	M141	< RL	< RL	< RL	< RL
T203	M158	< RL	< RL	< RL	< RL
T204	M150a	< RL	< RL	< RL	< RL
T205	M150b	< RL	< RL	< RL	< RL
T206	M151a	< RL	< RL	< RL	< RL
T207	M142a	< RL	< RL	< RL	< RL
T208	M143a	< RL	< RL	< RL	< RL
T209	M160a	< RL	< RL	< RL	< RL
T210	M165a	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 37 of 83

T211	M166a	< RL	< RL	< RL	< RL
T212	M175a	< RL	< RL	< RL	< RL
T213	M192a	< RL	< RL	< RL	< RL
T214	M193a	< RL	< RL	< RL	< RL
T215	M194a	< RL	< RL	< RL	< RL
T216	M195a	< RL	< RL	< RL	< RL
T217	M198a	< RL	< RL	< RL	< RL
T218	M199a	< RL	< RL	< RL	< RL
T219	M213a	< RL	< RL	< RL	< RL
T220	M264a	< RL	< RL	< RL	< RL
T221	M288a	< RL	< RL	< RL	< RL
T222	M289a	< RL	< RL	< RL	< RL
T223	M290a	< RL	< RL	< RL	< RL
T224	M291a	< RL	< RL	< RL	< RL
T225	M294a	< RL	< RL	< RL	< RL
T226	M297a	< RL	< RL	< RL	< RL
T227	M301a	< RL	< RL	< RL	< RL
T228	M223	< RL	< RL	< RL	< RL
T229	M226	< RL	< RL	< RL	< RL
T230	M348	< RL	< RL	< RL	< RL
T231	M041	< RL	< RL	< RL	< RL
T232	M078	< RL	< RL	< RL	< RL
T233	M103	< RL	< RL	< RL	< RL
T234	M128	< RL	< RL	< RL	< RL
T237	M186a	< RL	< RL	< RL	< RL
T238	M196	< RL	< RL	< RL	< RL
T239	M206a	< RL	< RL	< RL	< RL
T240	M022	< RL	< RL	< RL	< RL
T241	M038	< RL	< RL	< RL	< RL
T242	M046	< RL	< RL	< RL	< RL
T243	M117	< RL	< RL	< RL	< RL
T244	M137	< RL	< RL	< RL	< RL
T246	M168	< RL	< RL	< RL	< RL
T247	M176	< RL	< RL	< RL	< RL
T248	M197	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 38 of 83

T250	M216	< RL	< RL	< RL	< RL
T252	M054a	< RL	< RL	< RL	< RL
T253	M111	< RL	< RL	< RL	< RL
T254	M115	< RL	< RL	< RL	< RL
T255	M278	< RL	< RL	< RL	< RL
T256	M279	< RL	< RL	< RL	< RL
T259	M287	< RL	< RL	< RL	< RL
T260	M292a	< RL	< RL	< RL	< RL
T261	M293	< RL	< RL	< RL	< RL
T262	M314	< RL	< RL	< RL	< RL
T263	M316	< RL	< RL	< RL	< RL
T264	M058	< RL	< RL	< RL	< RL
T266	M097	< RL	< RL	< RL	< RL
T267	M179a	< RL	< RL	< RL	< RL
T268	M209	< RL	< RL	< RL	< RL
T269	M286	< RL	< RL	< RL	< RL
T270	M005	< RL	< RL	< RL	< RL
T271	M051	< RL	< RL	< RL	< RL
T272	M053	< RL	< RL	< RL	< RL
T273	M019	< RL	< RL	< RL	< RL
T274	M047	< RL	< RL	< RL	< RL
T275	M076	< RL	< RL	< RL	< RL
T276	M087	< RL	< RL	< RL	< RL
T277	M102	< RL	< RL	< RL	< RL
T278	M131	< RL	< RL	< RL	< RL
T280	M144a	< RL	< RL	< RL	< RL
T281	M153	< RL	< RL	< RL	< RL
T282	M008	< RL	< RL	< RL	< RL
T283	M009	< RL	< RL	< RL	< RL
T284	M024	< RL	< RL	< RL	< RL
T285	M170a	< RL	< RL	< RL	< RL
T286	M189	< RL	< RL	< RL	< RL
T287	M208	< RL	< RL	< RL	< RL
T288	M206b	< RL	< RL	< RL	< RL
T289	M206c	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 39 of 83

T290	M210	< RL	< RL	< RL	< RL
T291	M224	< RL	< RL	< RL	< RL
T292	M232	< RL	< RL	< RL	< RL
T293	M235	< RL	< RL	< RL	< RL
T295	M264b	< RL	< RL	< RL	< RL
T296	M267	< RL	< RL	< RL	< RL
T297	M284	< RL	< RL	< RL	< RL
T298	M292b	< RL	< RL	< RL	< RL
T299	M296	< RL	< RL	< RL	< RL
T300	M302	< RL	< RL	< RL	< RL
T301	M315	< RL	< RL	< RL	< RL
T302	M318	< RL	< RL	< RL	< RL
T303	M322	< RL	< RL	< RL	< RL
T304	M323	< RL	< RL	< RL	< RL
T305	M324	< RL	< RL	< RL	< RL
T306	M033	< RL	< RL	< RL	< RL
T307	M328	< RL	< RL	< RL	< RL
T308	M349	< RL	< RL	< RL	< RL
T309	M077b	< RL	< RL	< RL	< RL
T310	M122a	< RL	< RL	< RL	< RL
T311	M162a	< RL	< RL	< RL	< RL
T312	M350	< RL	< RL	< RL	< RL
T313	M351	< RL	< RL	< RL	< RL
T314	M354	< RL	< RL	< RL	< RL
T315	M130	< RL	< RL	< RL	< RL
T316	M185	< RL	< RL	< RL	< RL
T317	M295	< RL	< RL	< RL	< RL
T318	M299	< RL	< RL	< RL	< RL
T319	M146	< RL	< RL	< RL	< RL
T320	M332	< RL	< RL	< RL	< RL
T322	M356	< RL	< RL	< RL	< RL
T323	M359	< RL	< RL	< RL	< RL
T324	M360a	< RL	< RL	< RL	< RL
T325	M361a	< RL	< RL	< RL	< RL
T326	M362	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 40 of 83

T327	M363	< RL	< RL	< RL	< RL
T328	M367	< RL	< RL	< RL	< RL
T329	M365	< RL	< RL	< RL	< RL
T330	M366	< RL	< RL	< RL	< RL
T331	M371	< RL	< RL	< RL	< RL
T332	M369a	< RL	< RL	< RL	< RL
T333	M370a	< RL	< RL	< RL	< RL
T334	M376	< RL	< RL	< RL	< RL
T335	M377	< RL	< RL	< RL	< RL
T336	M379	< RL	< RL	< RL	< RL
T337	M392	< RL	< RL	< RL	< RL
T338	M381a	< RL	< RL	< RL	< RL
T339	M382a	< RL	< RL	< RL	< RL
T340	M383a	< RL	< RL	< RL	< RL
T341	M372	< RL	< RL	< RL	< RL
T342	M374	< RL	< RL	< RL	< RL
T343	M375	< RL	< RL	< RL	< RL
T344	M378	< RL	< RL	< RL	< RL
T345	M380	< RL	< RL	< RL	< RL
T346	M385	< RL	< RL	< RL	< RL
T347	M386	< RL	< RL	< RL	< RL
T348	M391	< RL	< RL	< RL	< RL
T349	M399	< RL	< RL	< RL	< RL
T350	M394	< RL	< RL	< RL	< RL
T351	M397	< RL	< RL	< RL	< RL
T352	M401	< RL	< RL	< RL	< RL
T353	M402	< RL	< RL	< RL	< RL
T354	M403	< RL	< RL	< RL	< RL
T355	M404	< RL	< RL	< RL	< RL
T356	M405	< RL	< RL	< RL	< RL
T357	M406	< RL	< RL	< RL	< RL
T358	M408b	< RL	< RL	< RL	< RL
T359	M410b	< RL	< RL	< RL	< RL
T360	M416b	< RL	< RL	< RL	< RL
T361	M409	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 41 of 83

T362	M413	< RL	< RL	< RL	< RL
T363	M415	< RL	< RL	< RL	< RL
T364	M411b	< RL	< RL	< RL	< RL
T365	M414	< RL	< RL	< RL	< RL
T366	M417b	< RL	< RL	< RL	< RL
T367	M410a	< RL	< RL	< RL	< RL
T368	M412a	< RL	< RL	< RL	< RL
T369	M416a	< RL	0.052	< RL	< RL
T370	M428	< RL	< RL	0.017	< RL
T371	M429	< RL	< RL	< RL	< RL
T372	M407	< RL	< RL	< RL	< RL
T373	M418	< RL	< RL	< RL	< RL
T375	M423	< RL	< RL	< RL	< RL
T377	M425	< RL	< RL	< RL	< RL
T378	M420	< RL	< RL	< RL	< RL
T379	M421	< RL	< RL	< RL	< RL
T380	M422	< RL	< RL	< RL	< RL
T383	M082-1	< RL	< RL	< RL	< RL
T384	M214-1	< RL	< RL	< RL	< RL
T385	M274-1	< RL	< RL	< RL	< RL
T386	M104-1	< RL	< RL	< RL	< RL
T387	M211-1	< RL	< RL	< RL	< RL
T388	M281-1	< RL	< RL	< RL	< RL
T389	M026a-2	< RL	< RL	< RL	< RL
T390	M027a-2	< RL	< RL	< RL	< RL
T391	M249-1	< RL	< RL	< RL	< RL
T392	M283-1	< RL	< RL	< RL	< RL
T393	M430	< RL	< RL	< RL	< RL
T394	M431	< RL	< RL	< RL	< RL
T395	M435	< RL	< RL	< RL	< RL
T396	M432	< RL	< RL	< RL	< RL
T397	M433	< RL	< RL	< RL	< RL
T398	M434	< RL	< RL	< RL	< RL
T399	M438	< RL	< RL	< RL	< RL
T400	M439	< RL	< RL	< RL	< RL

Test Report No.: 27220092a 001

Page 42 of 83

T401	M440	< RL	< RL	< RL	< RL
T402	M437	< RL	< RL	< RL	< RL
T403	M441	< RL	< RL	< RL	< RL
T404	M263-1	< RL	< RL	< RL	< RL
T405	M427-1	< 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

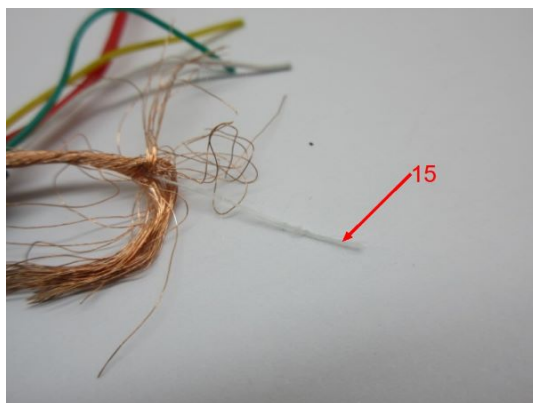
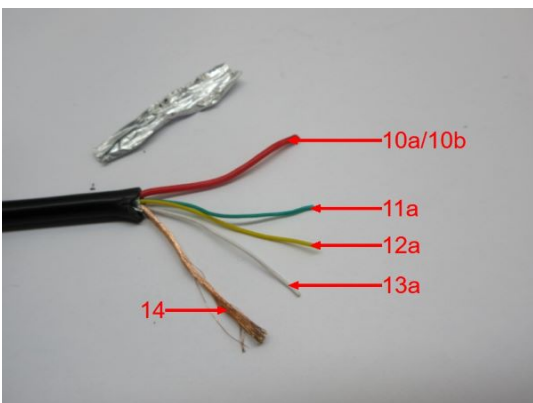
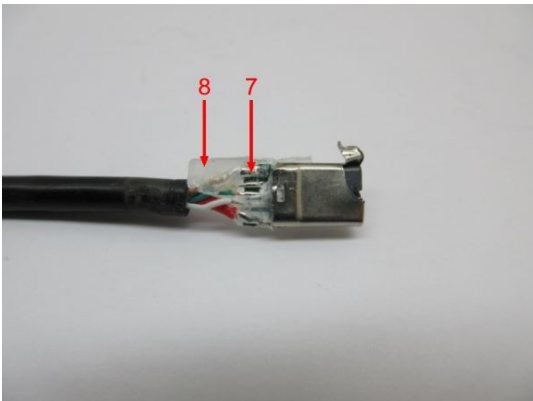
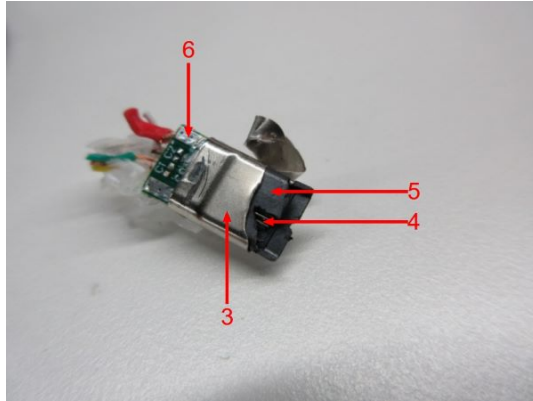
Remark:

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

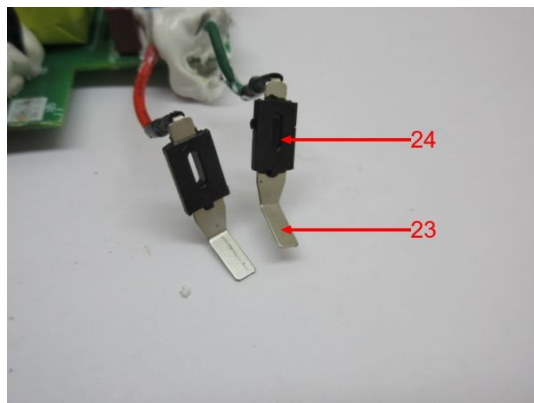
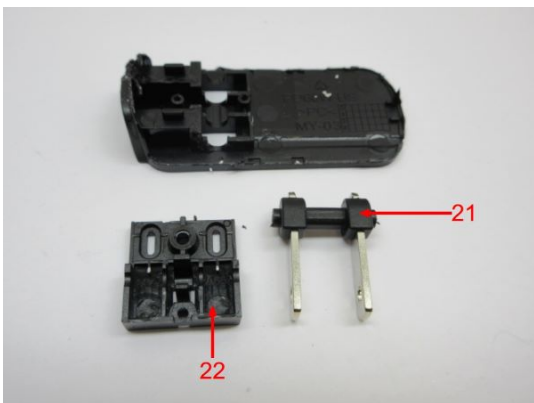
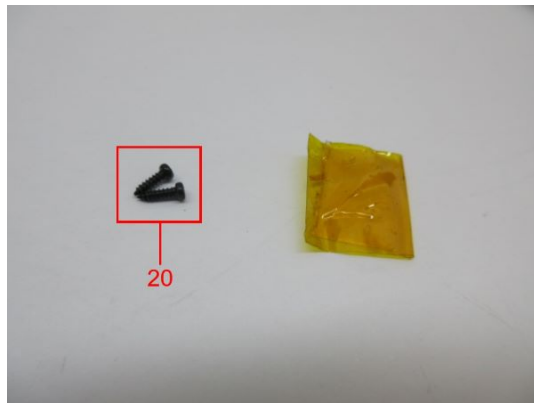
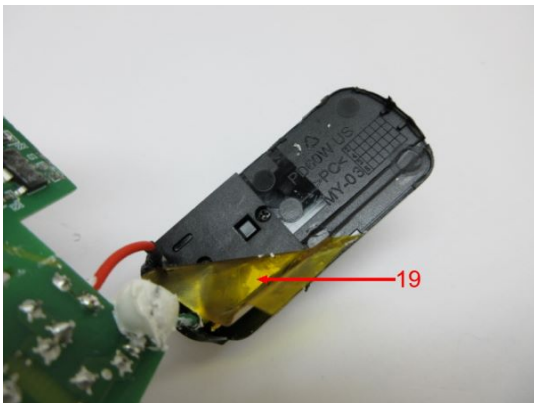
Test Report No.: 27220092a 001

Page 43 of 83

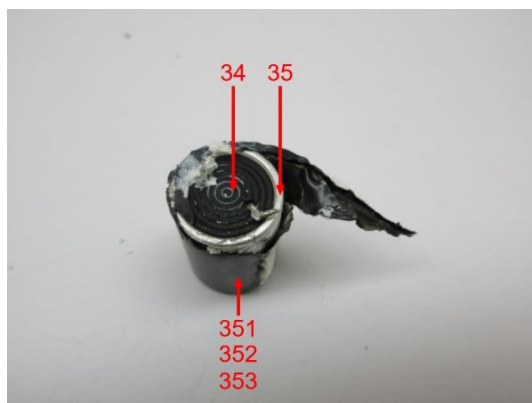
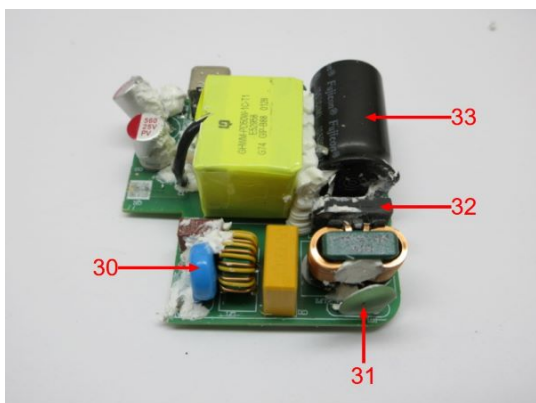
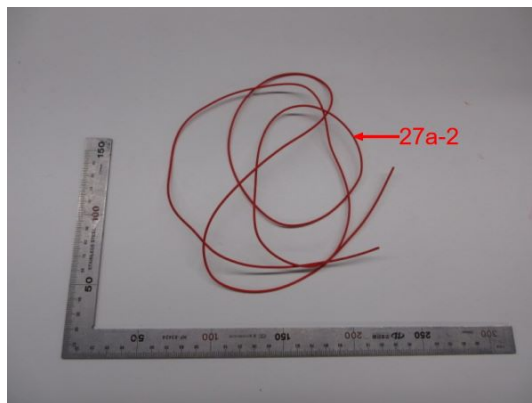
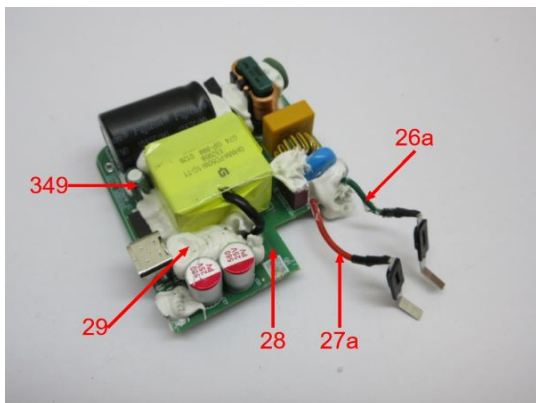
Sample Photos



Sample Photos



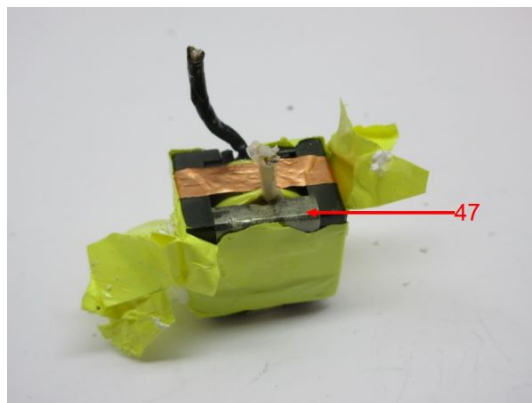
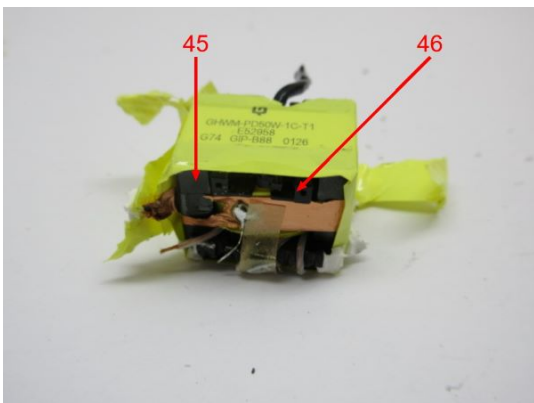
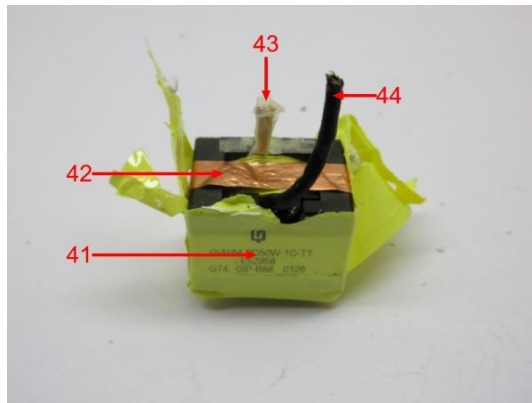
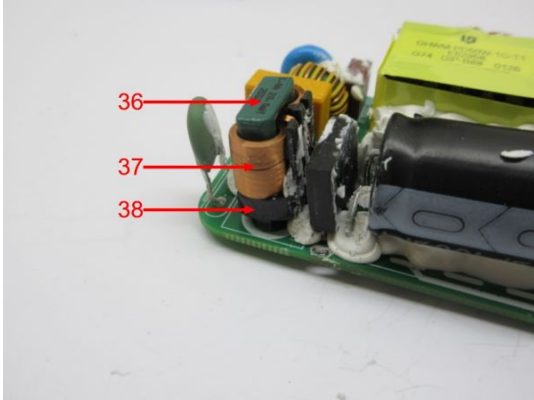
Sample Photos



Test Report No.: 27220092a 001

Page 46 of 83

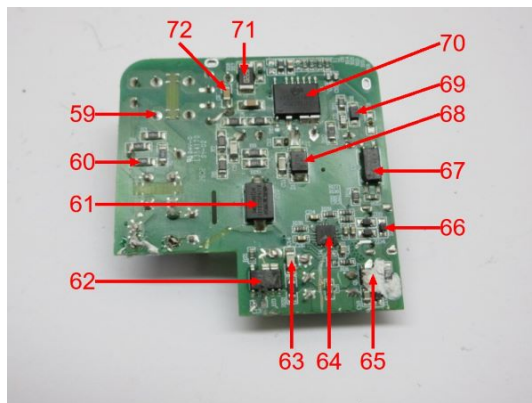
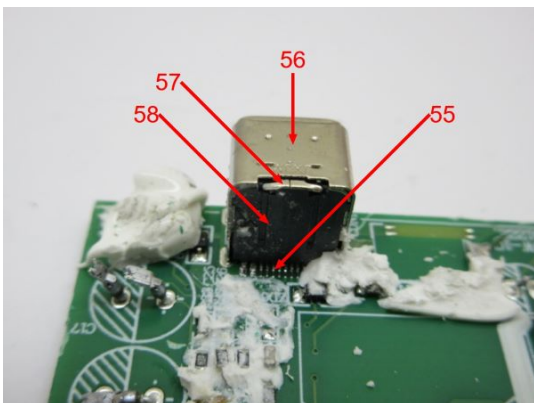
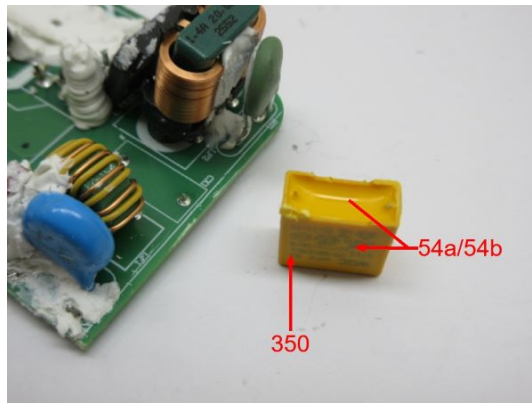
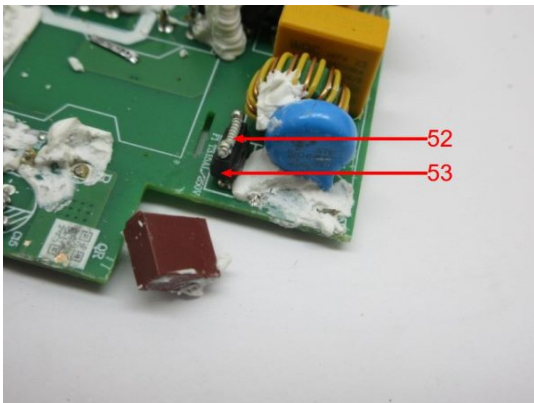
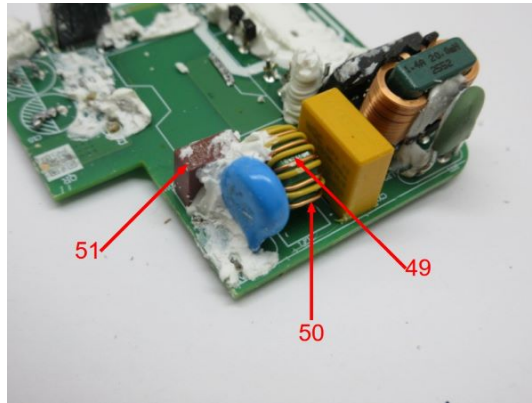
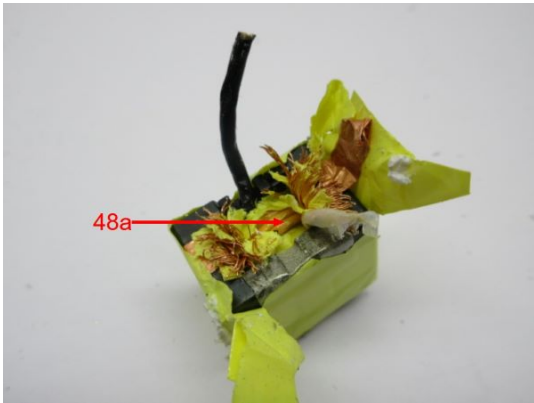
Sample Photos



Test Report No.: 27220092a 001

Page 47 of 83

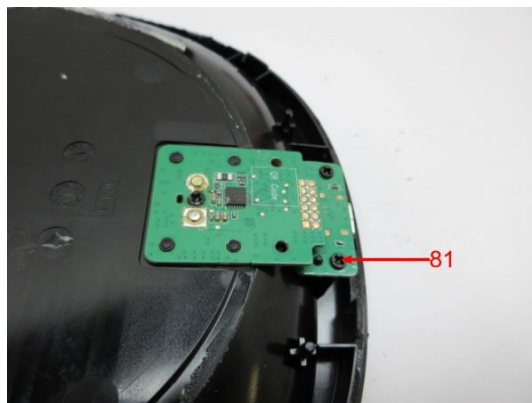
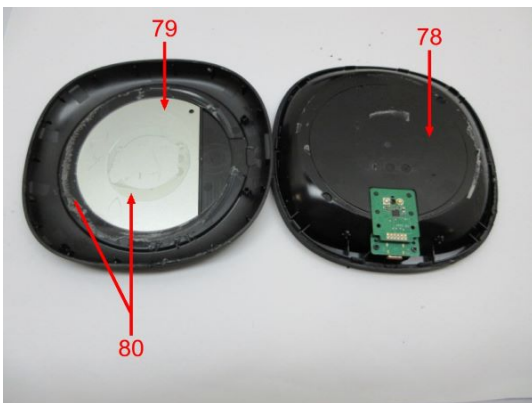
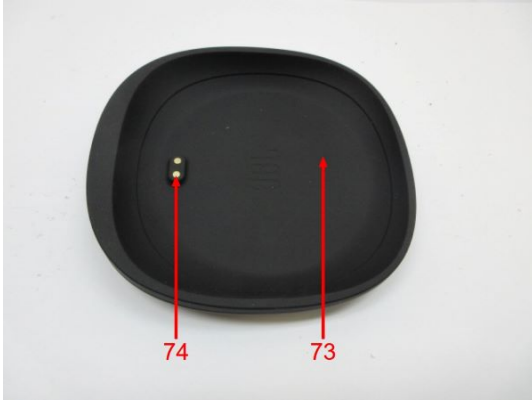
Sample Photos



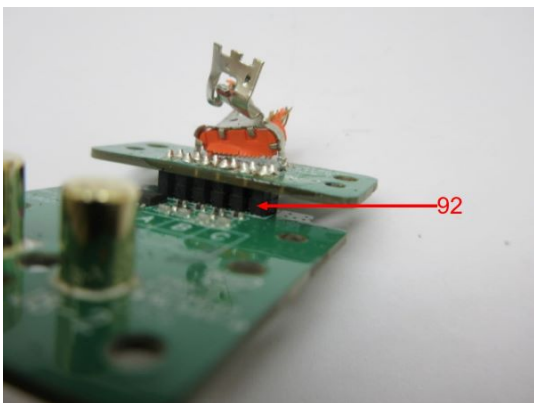
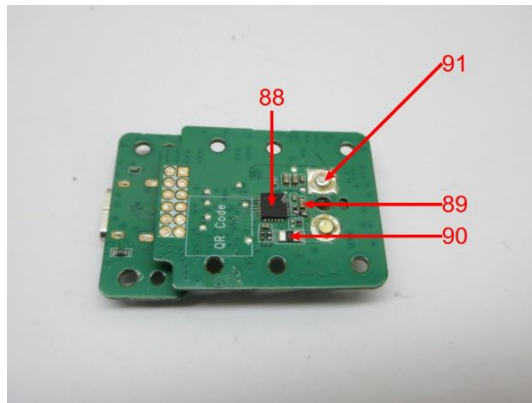
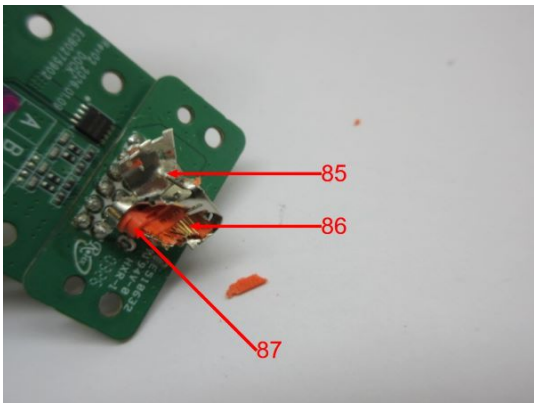
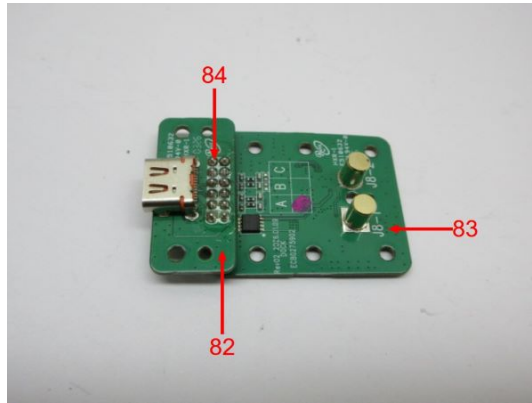
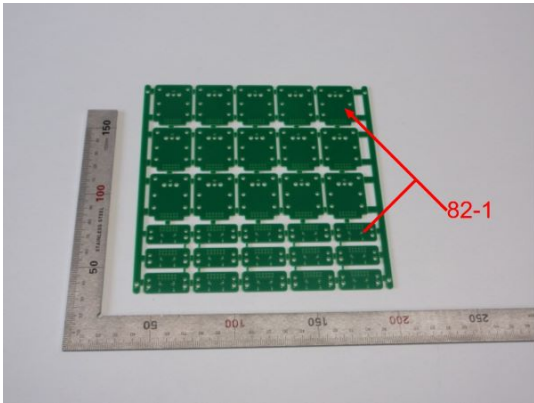
Test Report No.: 27220092a 001

Page 48 of 83

Sample Photos



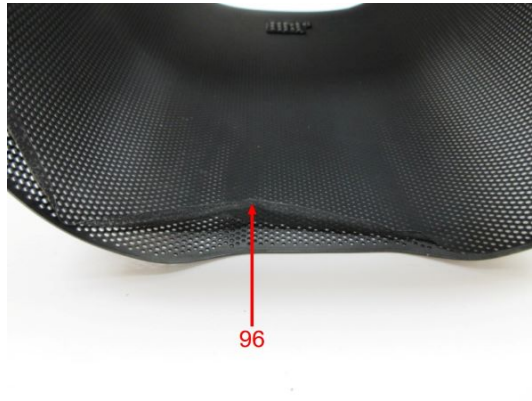
Sample Photos



Test Report No.: 27220092a 001

Page 50 of 83

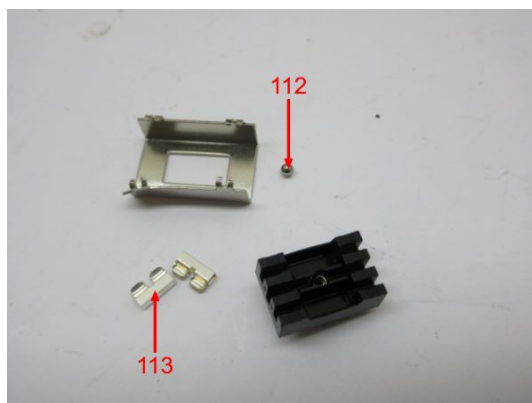
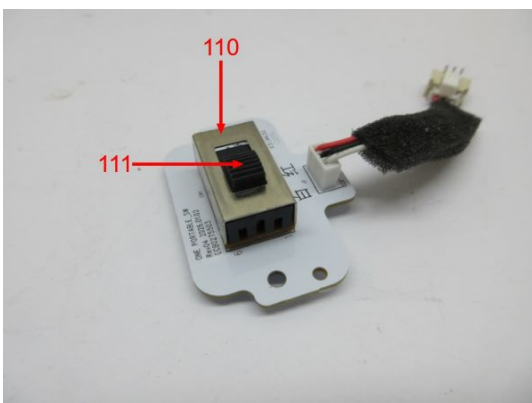
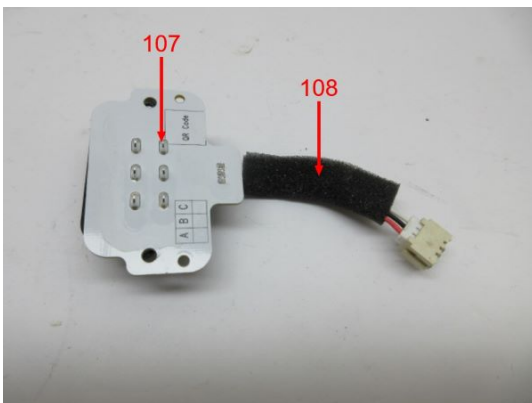
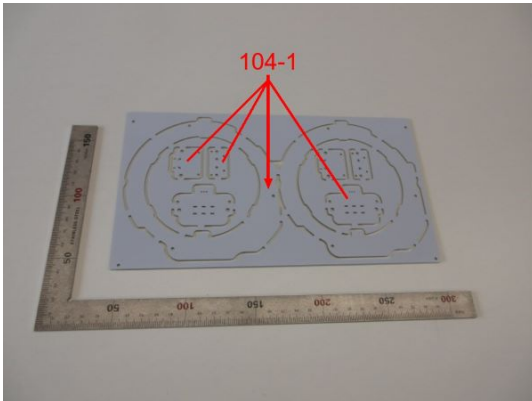
Sample Photos



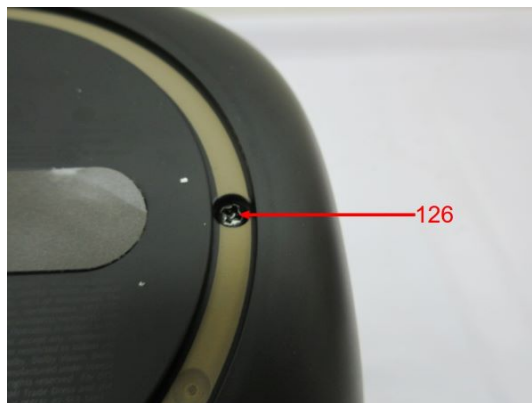
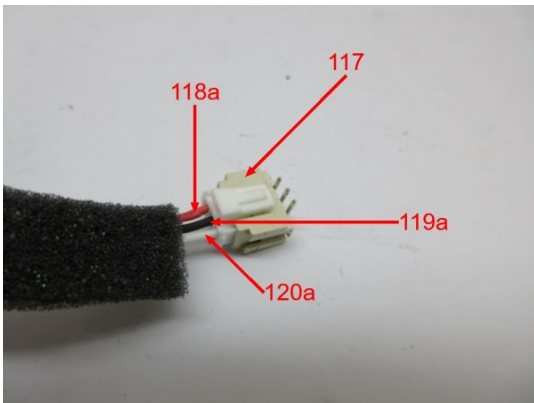
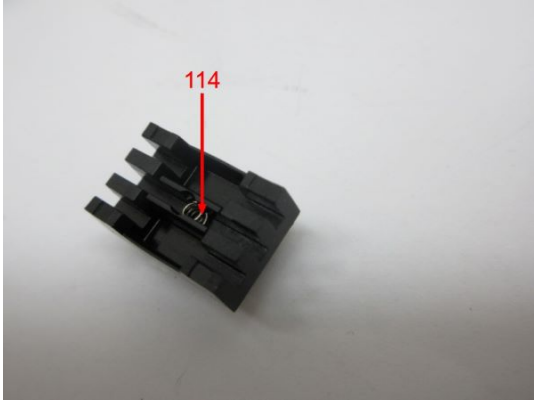
Test Report No.: 27220092a 001

Page 51 of 83

Sample Photos



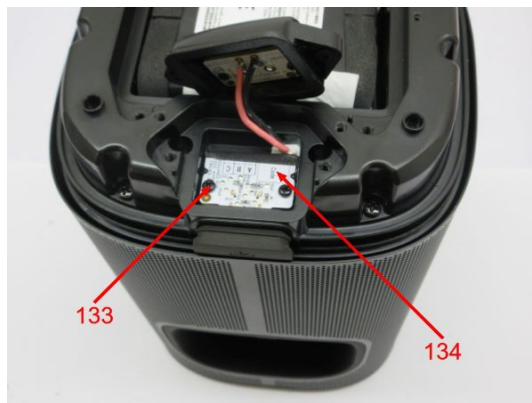
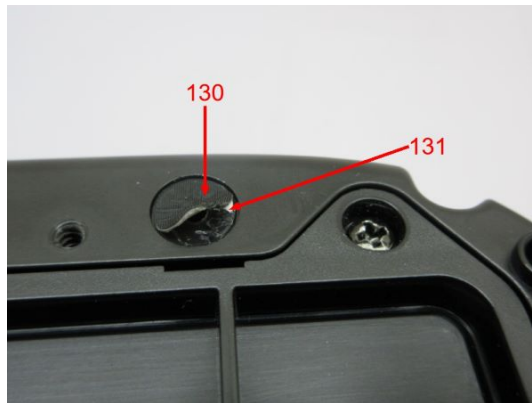
Sample Photos



Test Report No.: 27220092a 001

Page 53 of 83

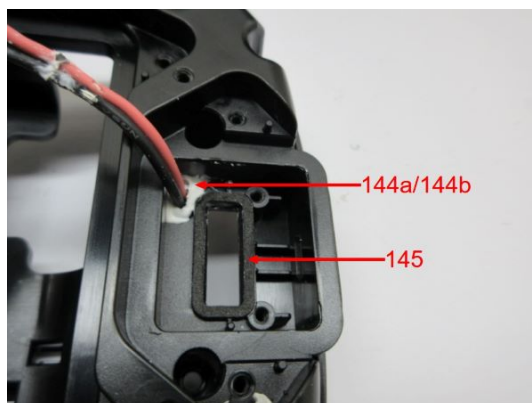
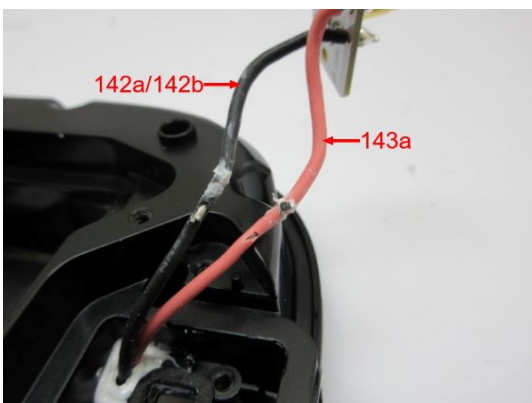
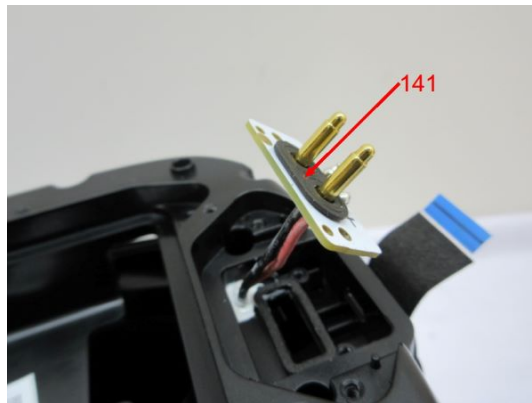
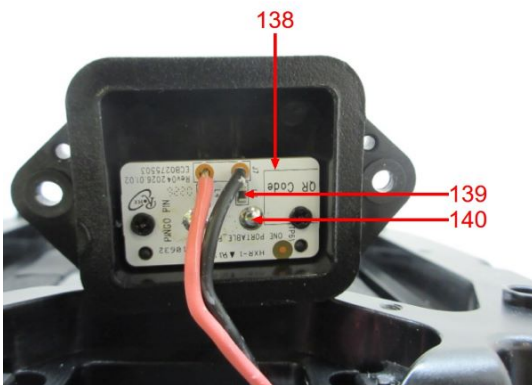
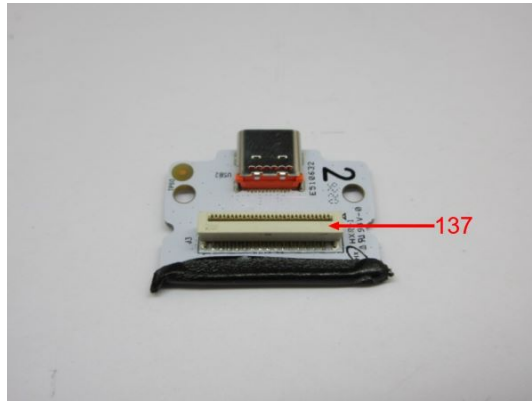
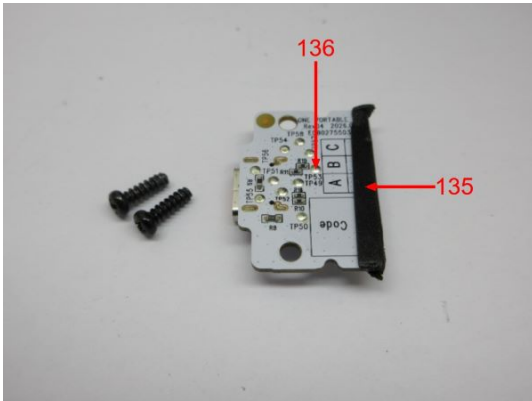
Sample Photos



Test Report No.: 27220092a 001

Page 54 of 83

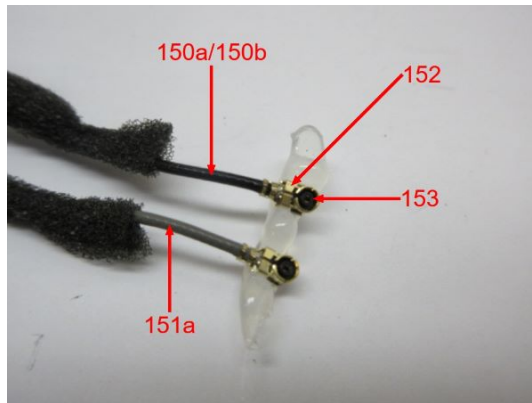
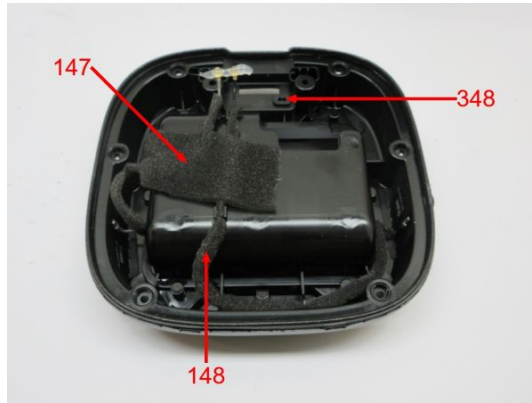
Sample Photos



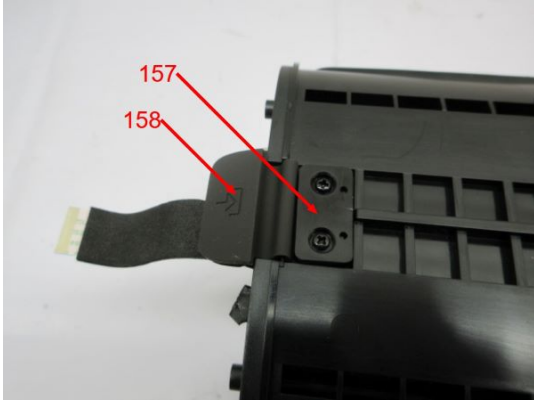
Test Report No.: 27220092a 001

Page 55 of 83

Sample Photos



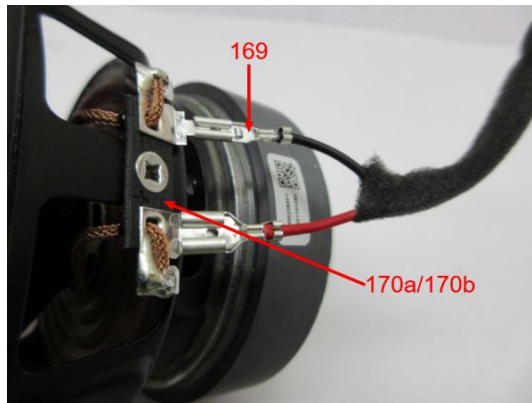
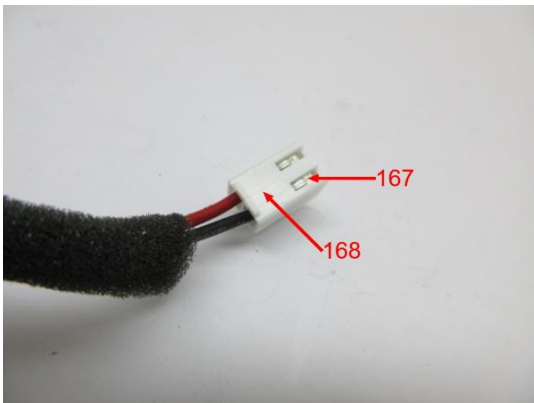
Sample Photos



Test Report No.: 27220092a 001

Page 57 of 83

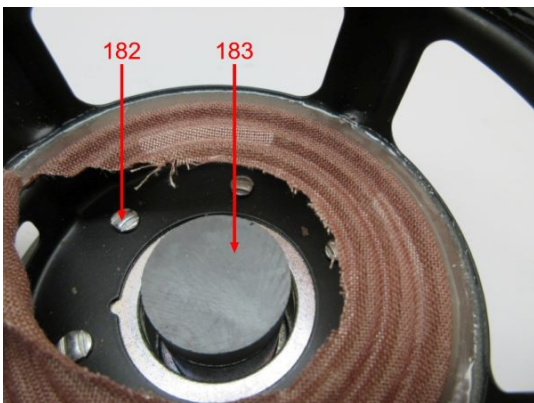
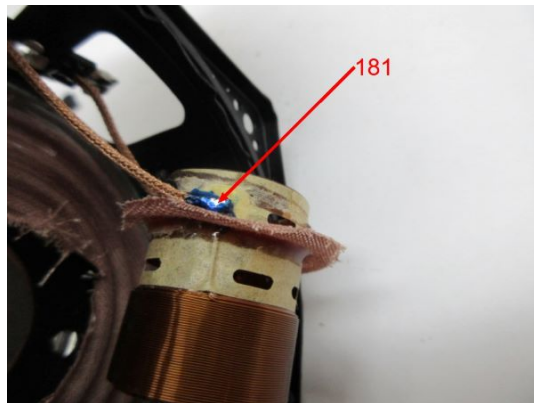
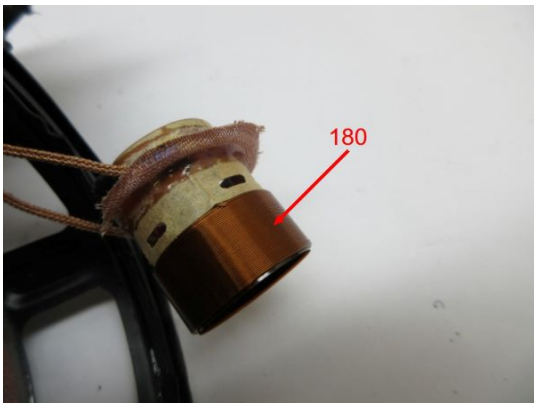
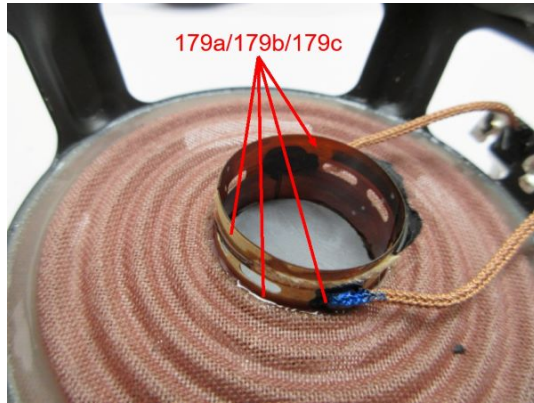
Sample Photos



Test Report No.: 27220092a 001

Page 58 of 83

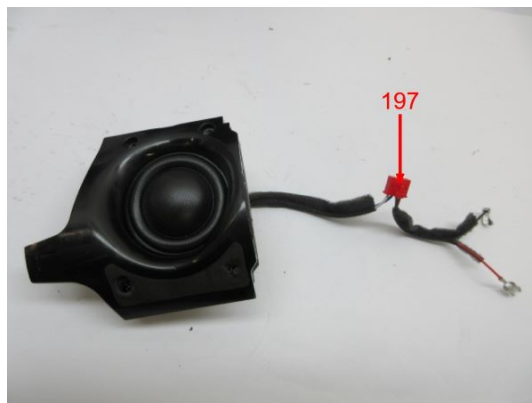
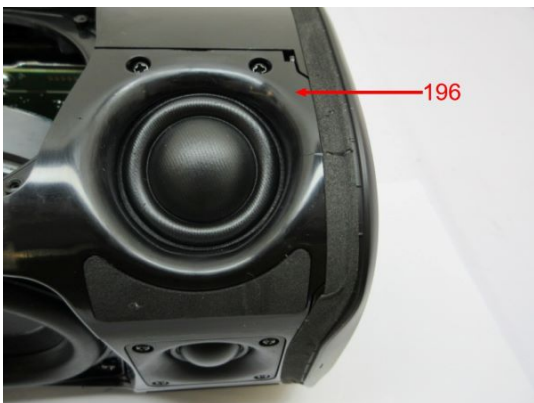
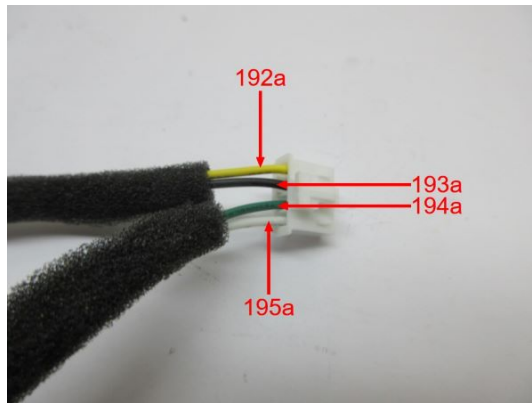
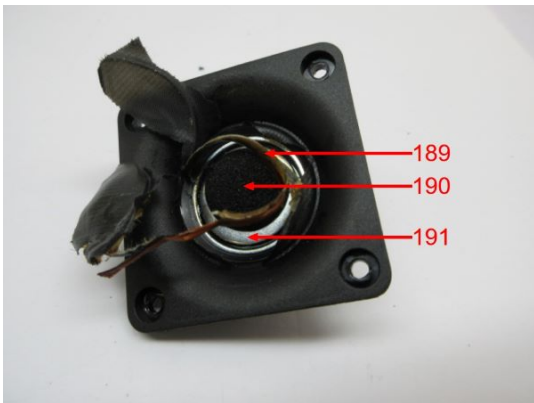
Sample Photos



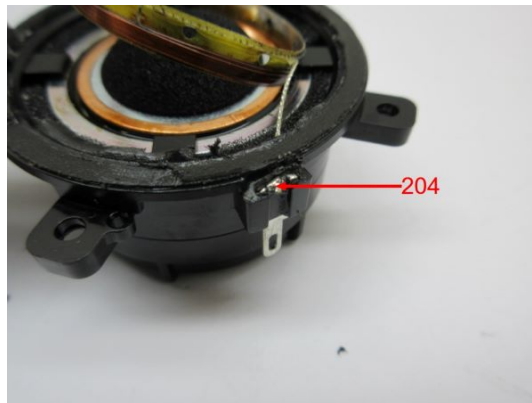
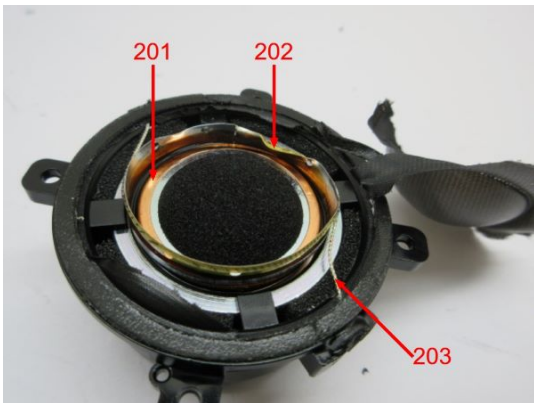
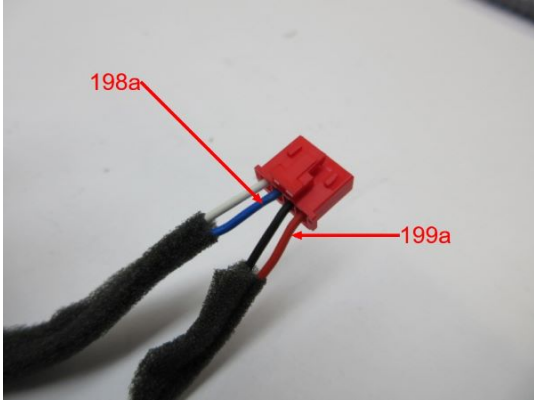
Test Report No.: 27220092a 001

Page 59 of 83

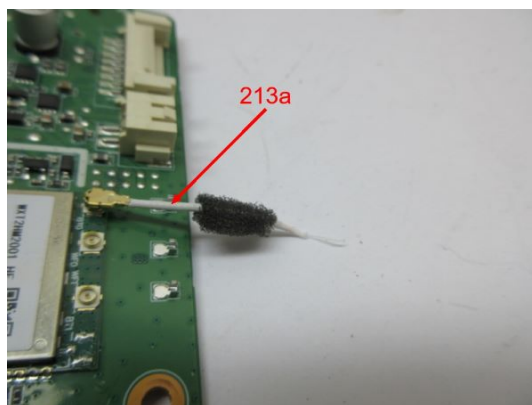
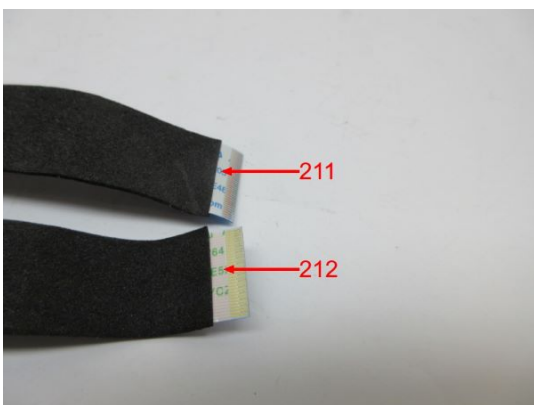
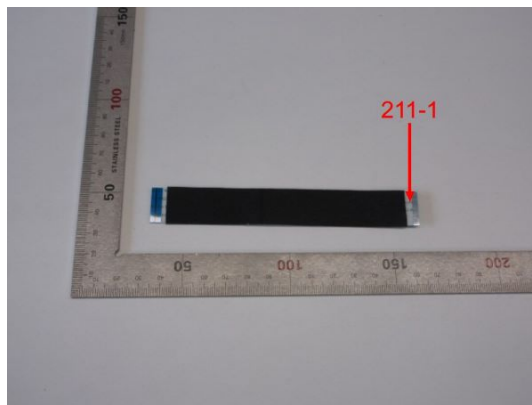
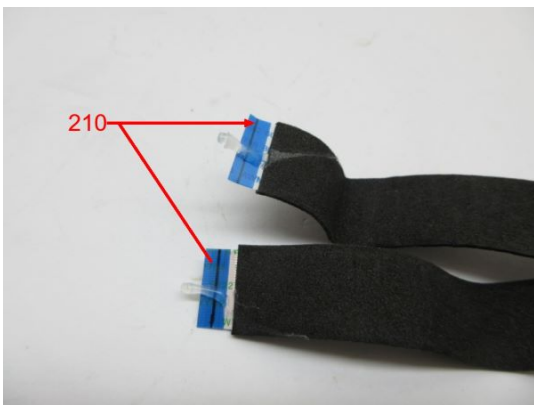
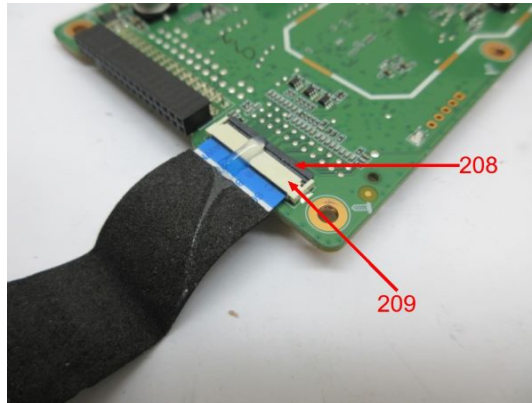
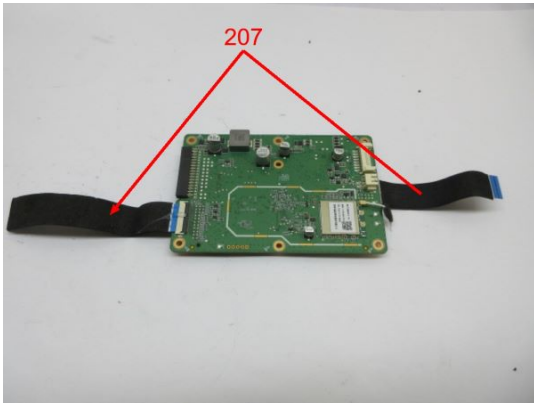
Sample Photos



Sample Photos



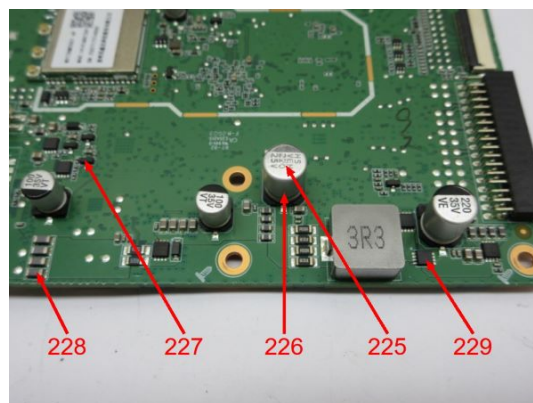
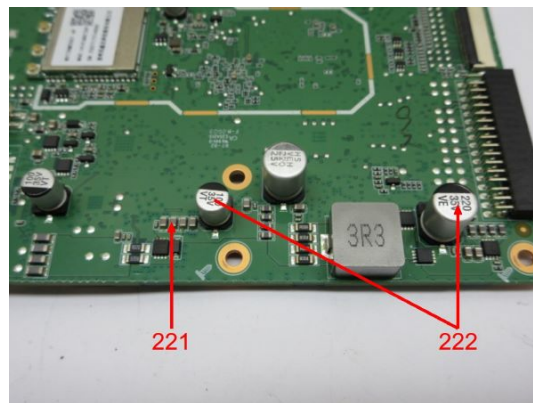
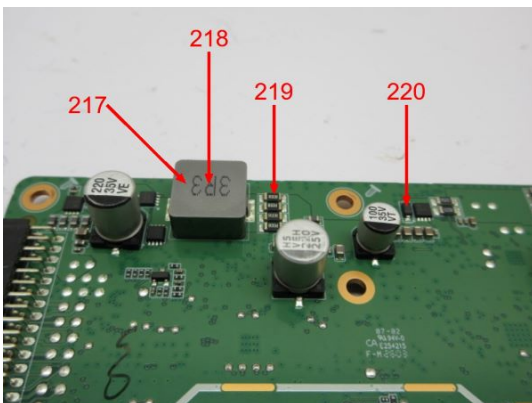
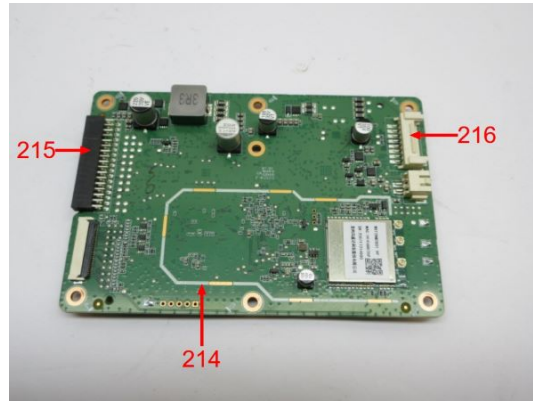
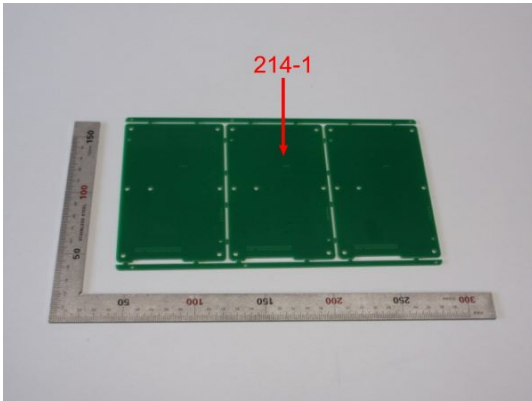
Sample Photos



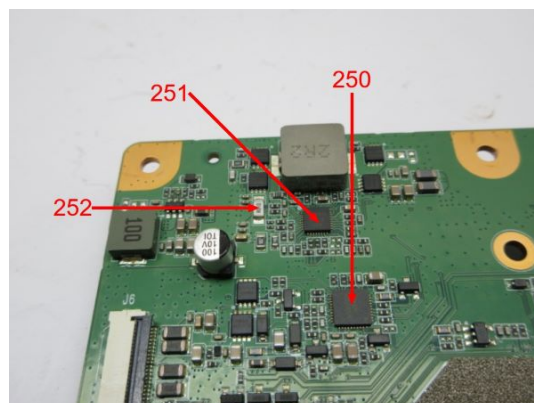
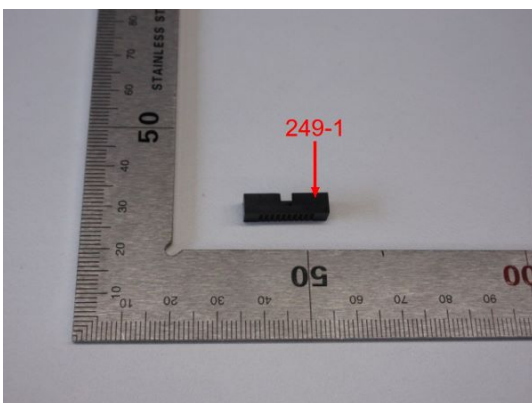
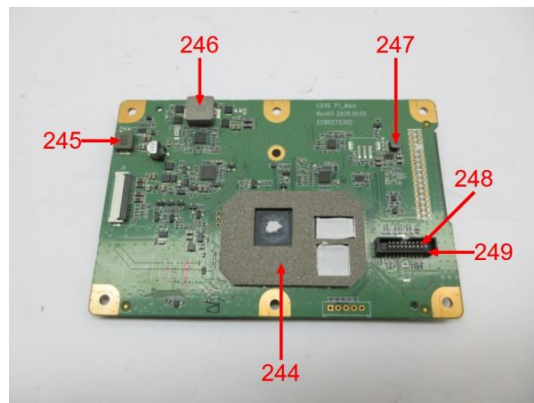
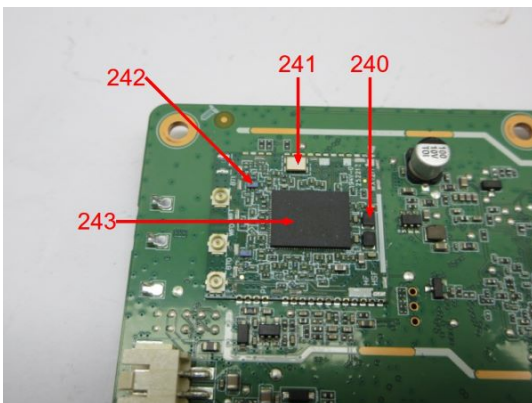
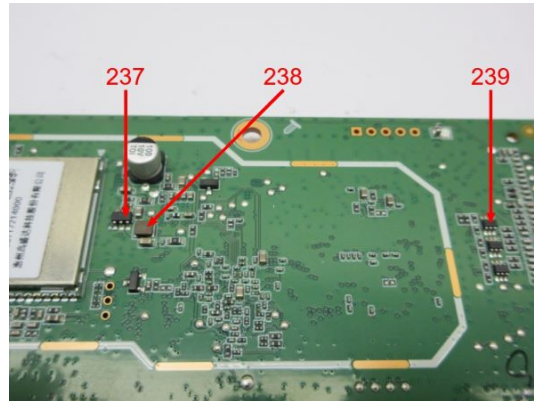
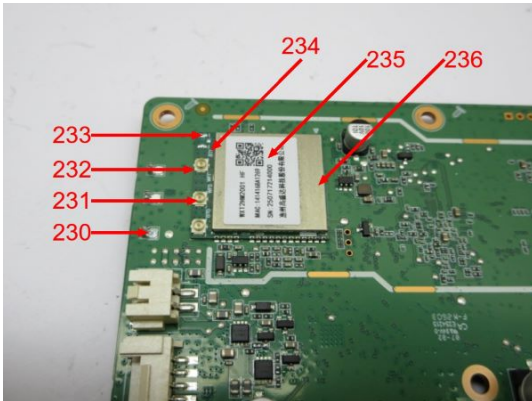
Test Report No.: 27220092a 001

Page 62 of 83

Sample Photos



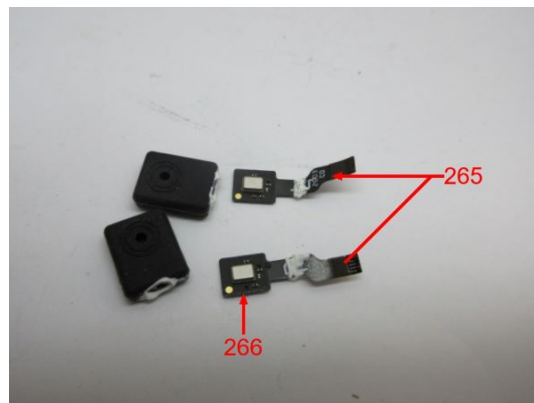
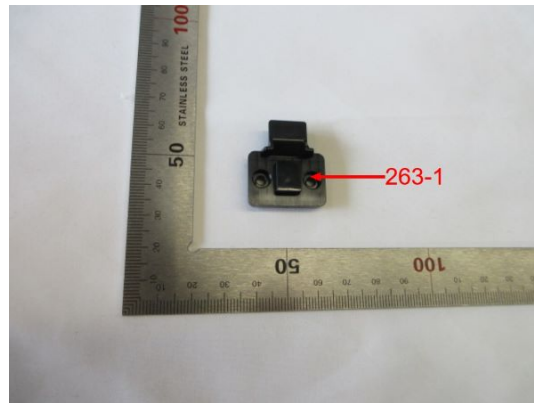
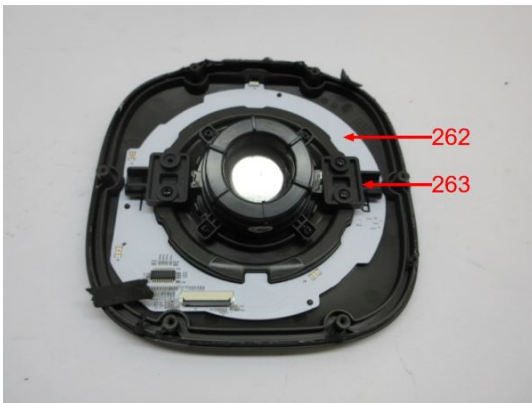
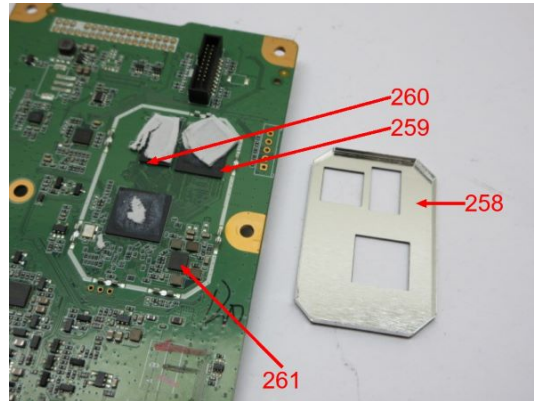
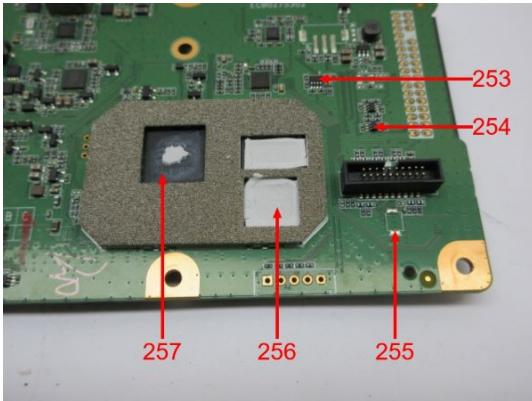
Sample Photos



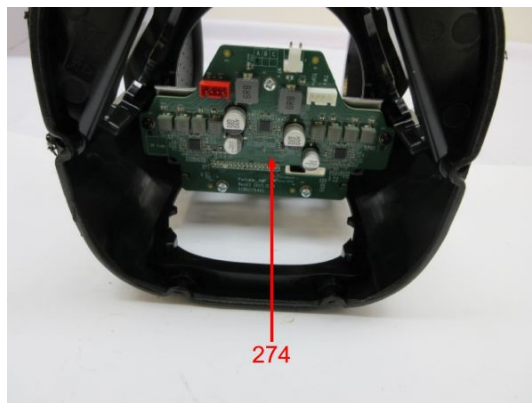
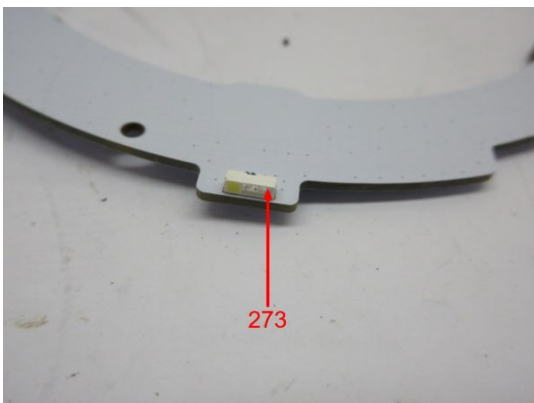
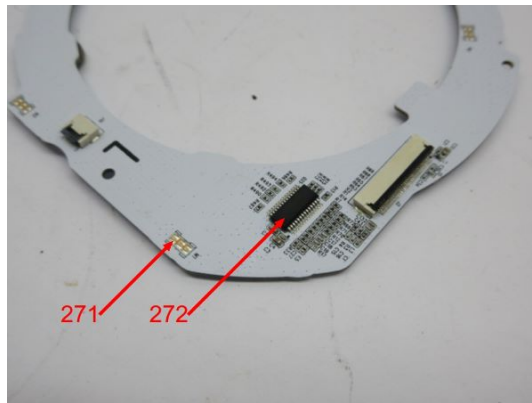
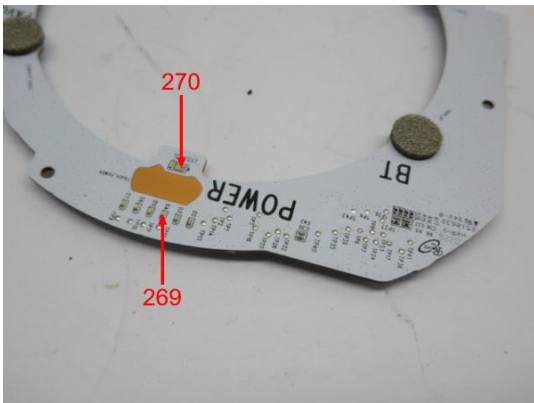
Test Report No.: 27220092a 001

Page 64 of 83

Sample Photos



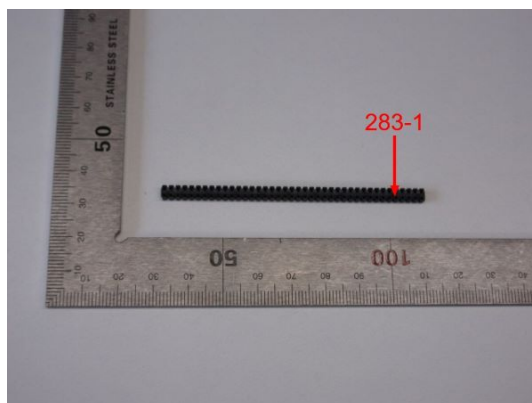
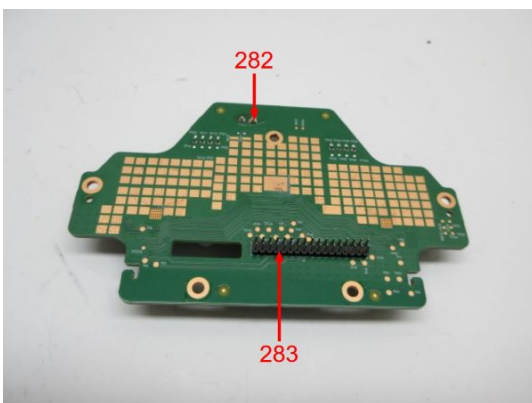
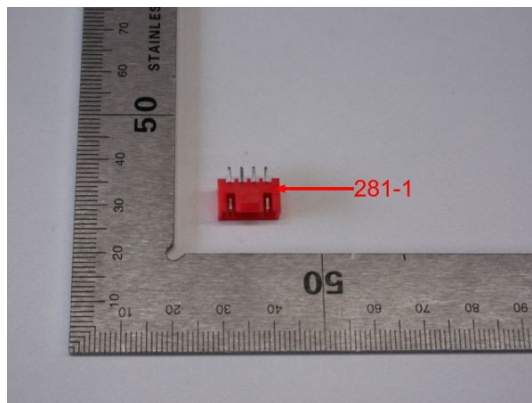
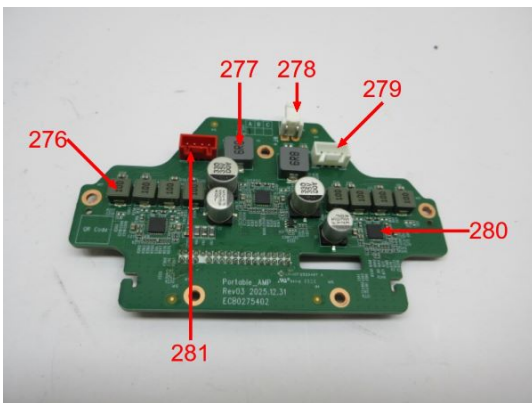
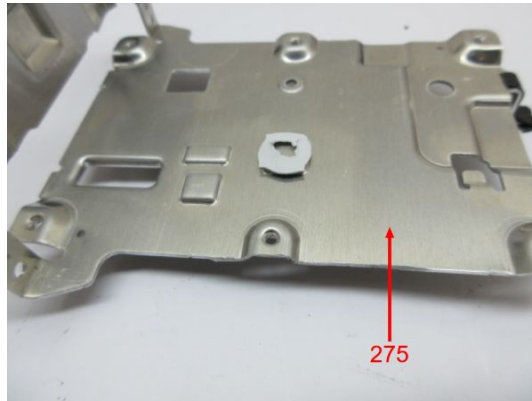
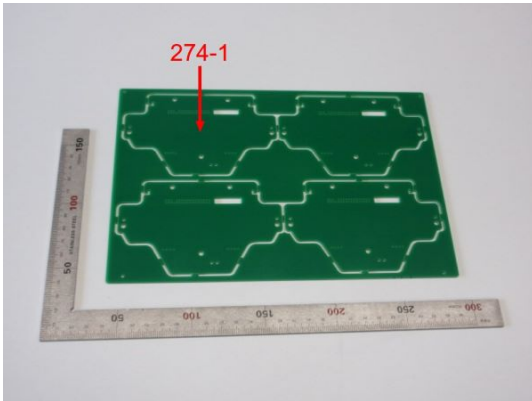
Sample Photos



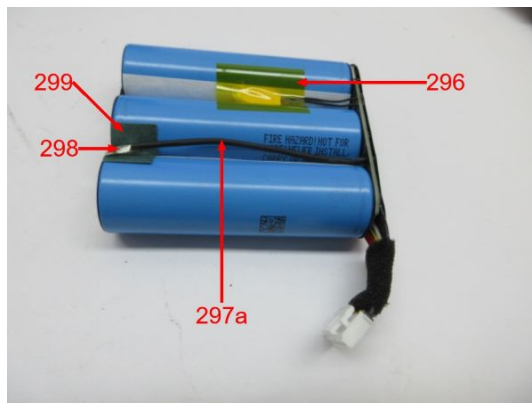
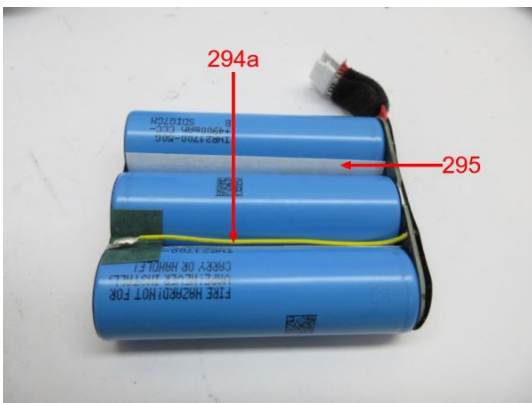
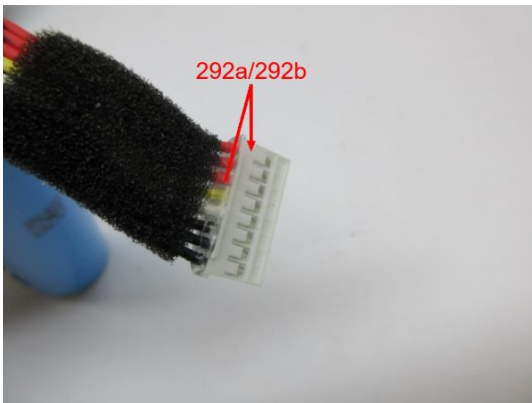
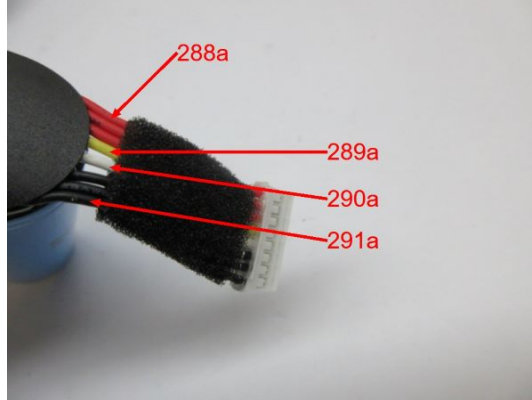
Test Report No.: 27220092a 001

Page 66 of 83

Sample Photos



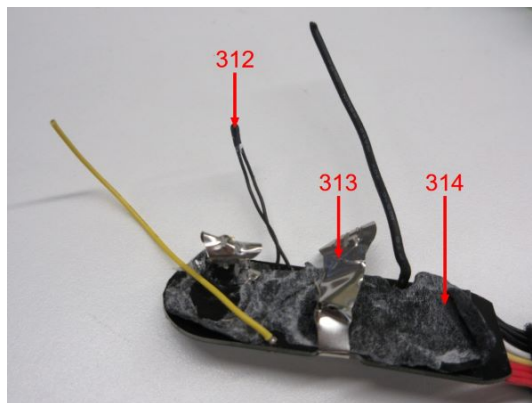
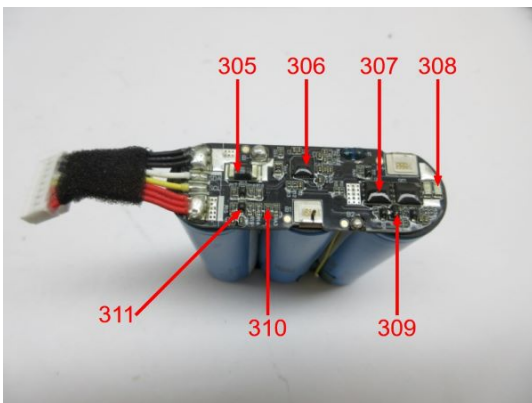
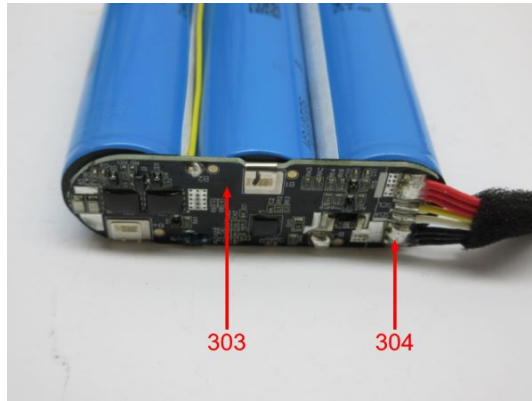
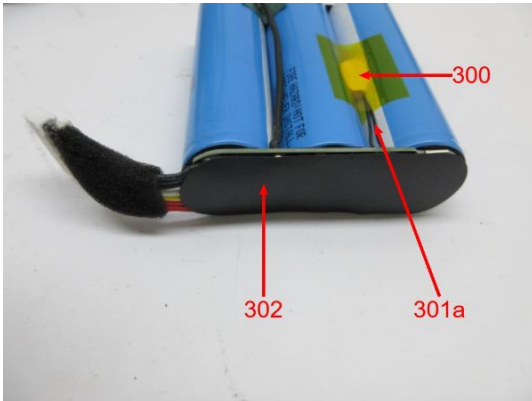
Sample Photos



Test Report No.: 27220092a 001

Page 68 of 83

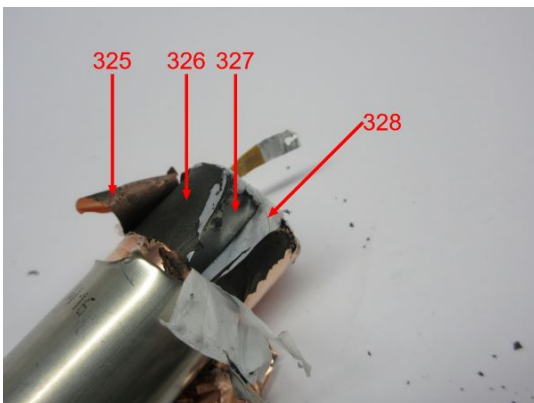
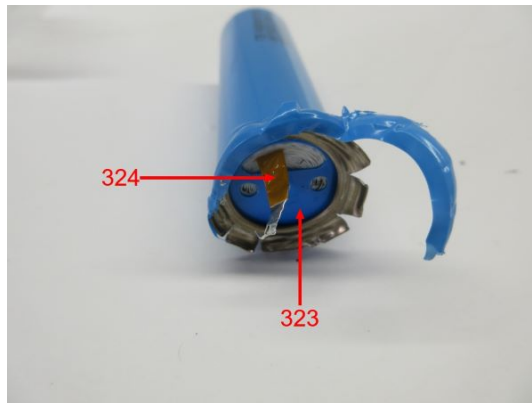
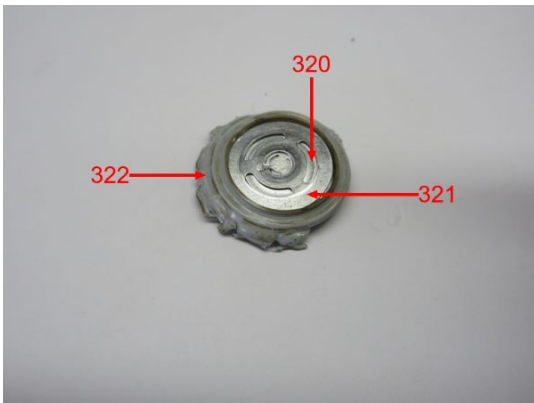
Sample Photos



Test Report No.: 27220092a 001

Page 69 of 83

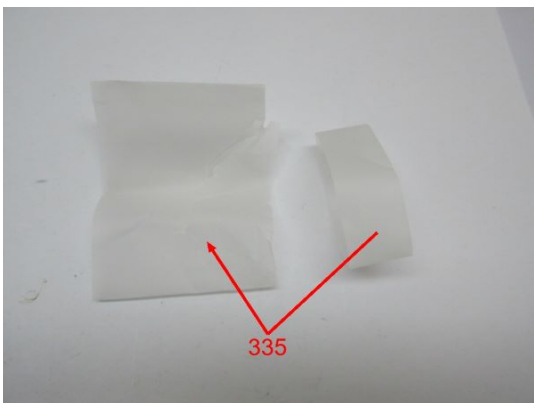
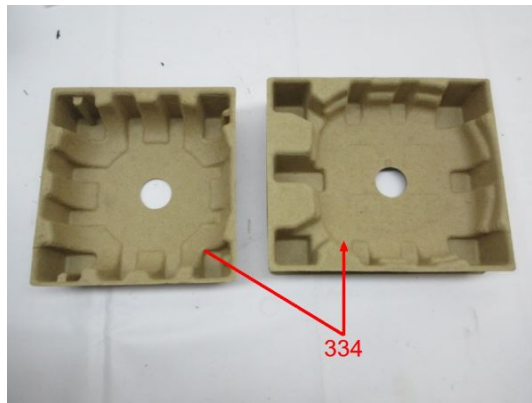
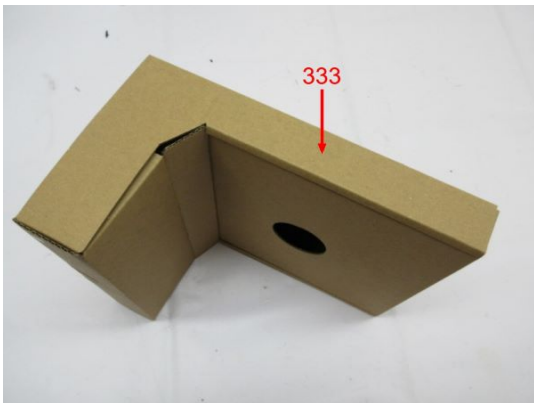
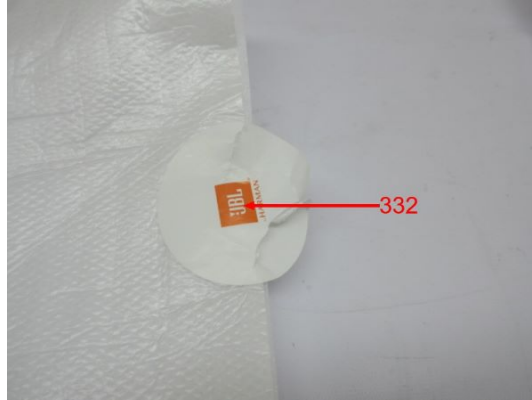
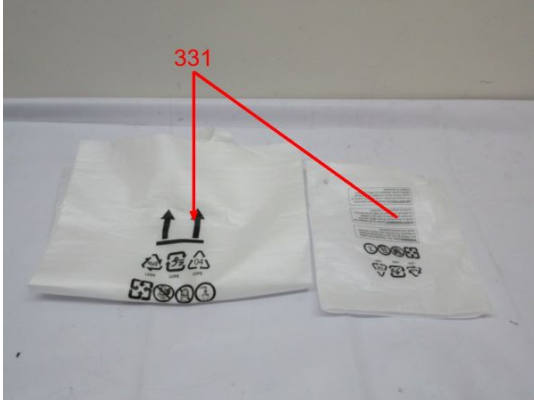
Sample Photos



Test Report No.: 27220092a 001

Page 70 of 83

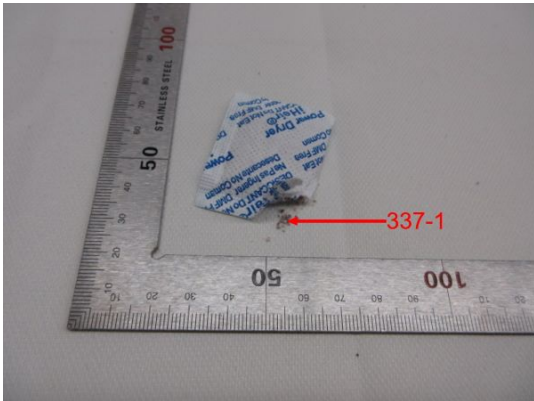
Sample Photos



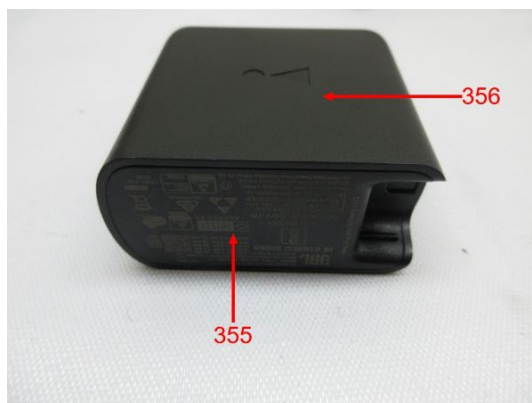
Test Report No.: 27220092a 001

Page 71 of 83

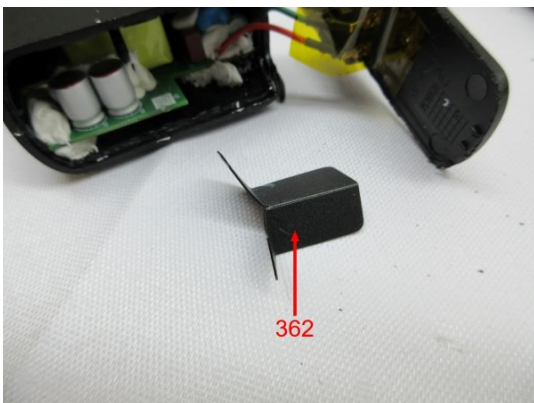
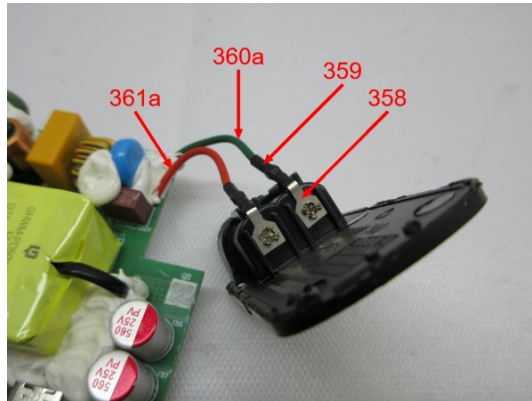
Sample Photos



Sample Photos



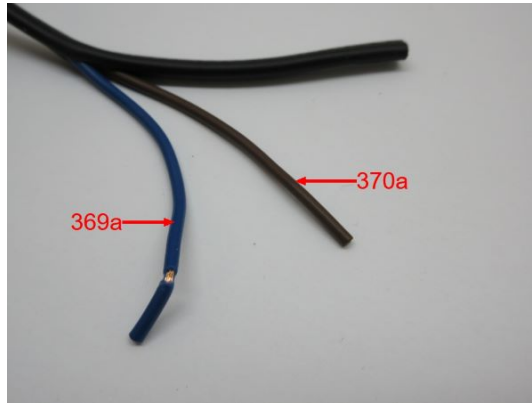
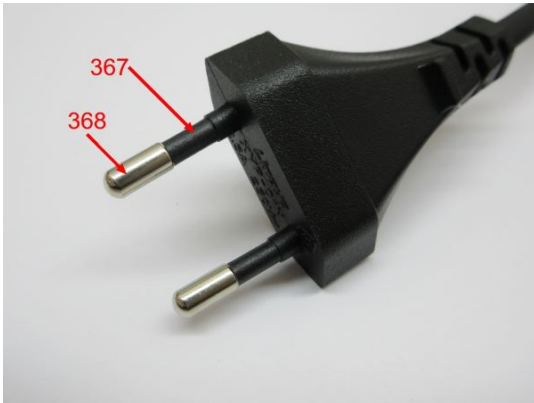
Sample Photos



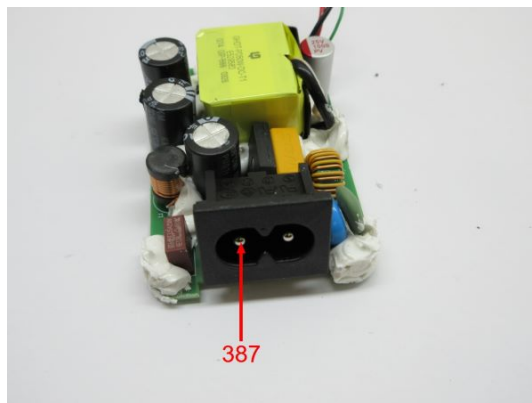
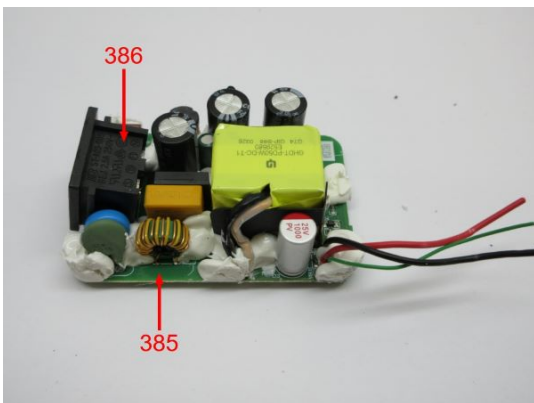
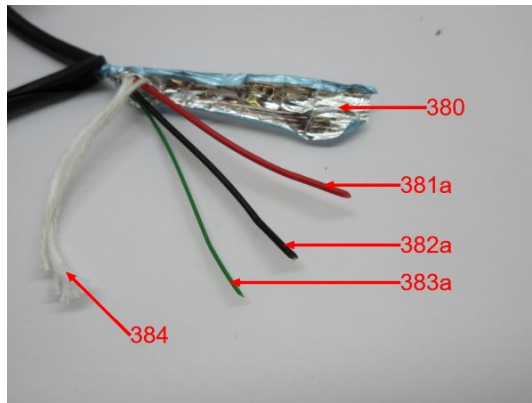
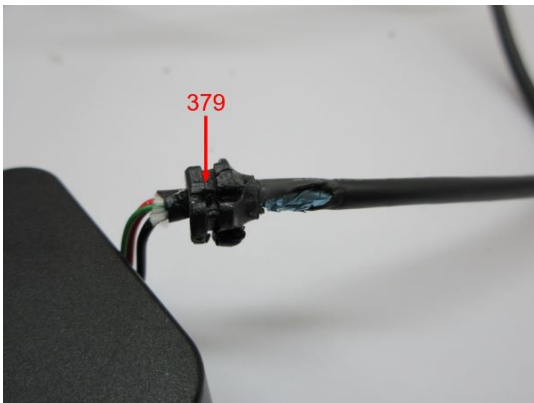
Test Report No.: 27220092a 001

Page 74 of 83

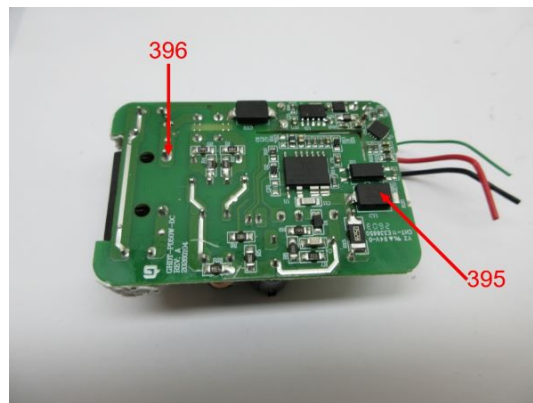
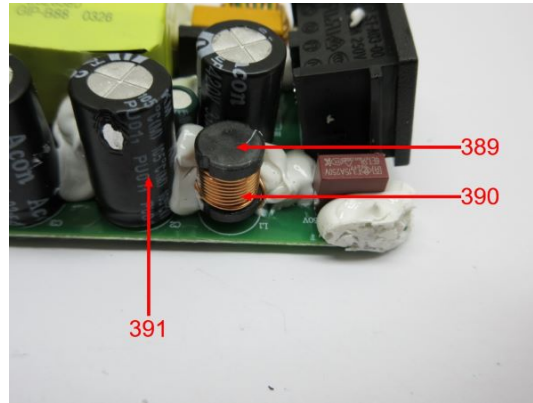
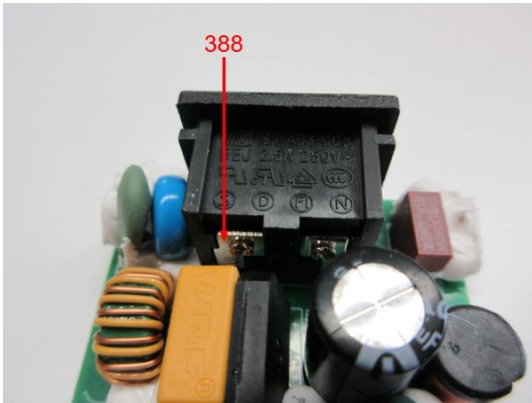
Sample Photos



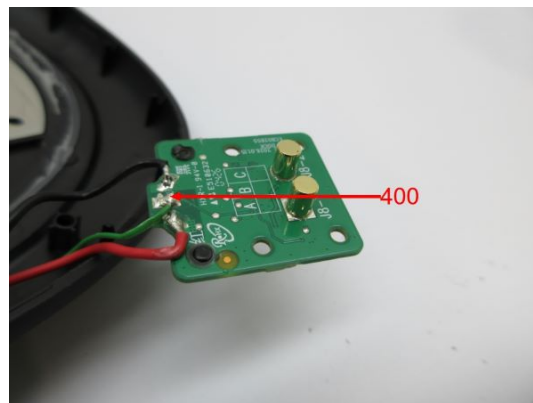
Sample Photos



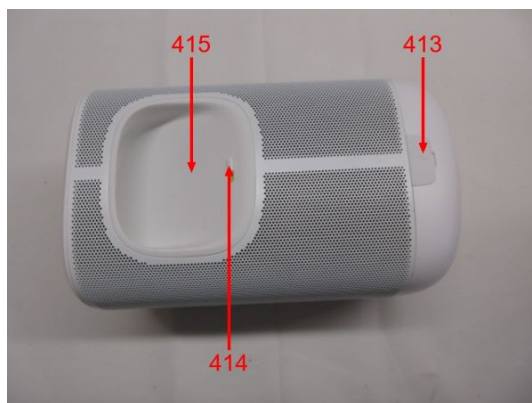
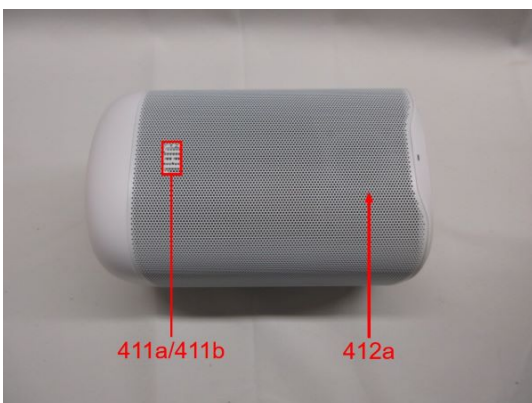
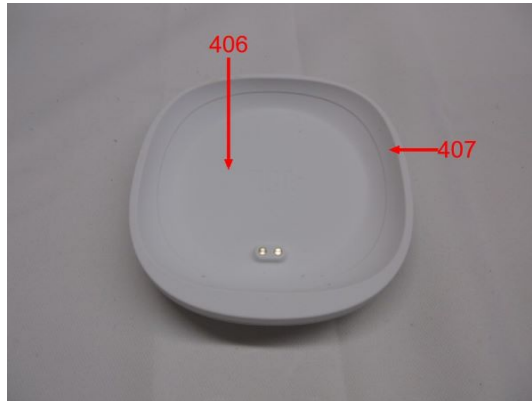
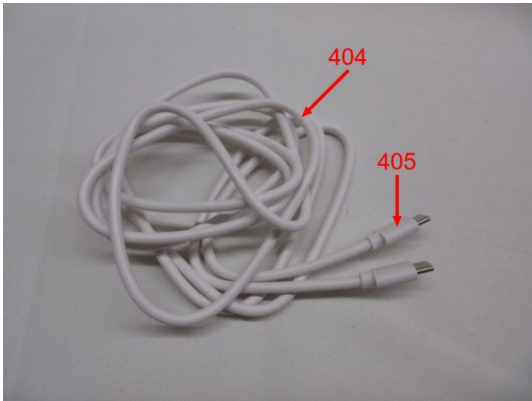
Sample Photos



Sample Photos



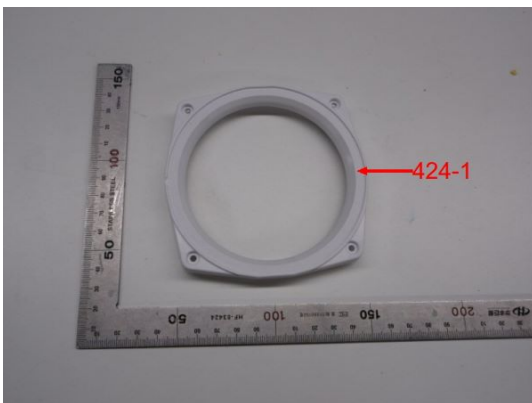
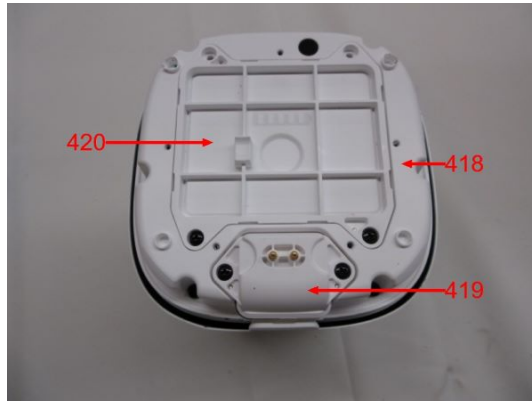
Sample Photos



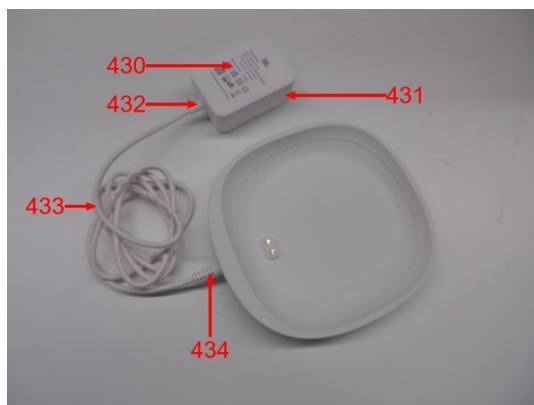
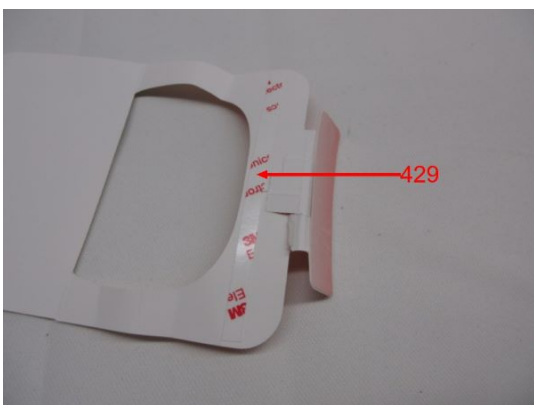
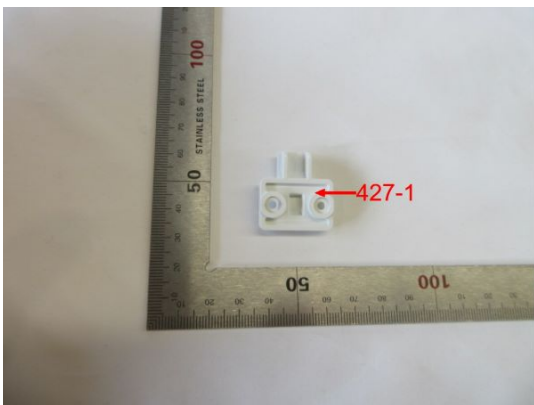
Test Report No.: 27220092a 001

Page 79 of 83

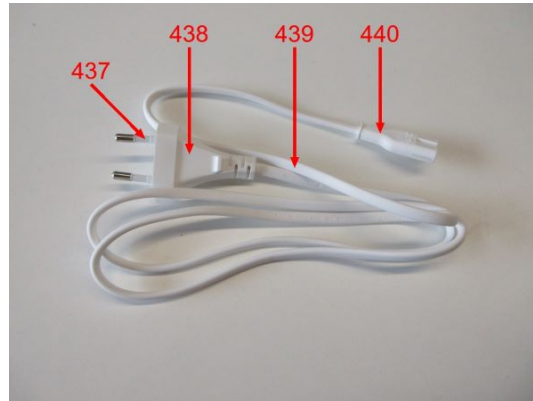
Sample Photos



Sample Photos



Sample Photos



Product



Product

Test Report No.: 27220092a 001

Page 82 of 83

Sample Photos



Product



Product



Product



Product



Product



Product

Test Report No.: 27220092a 001

Page 83 of 83

Sample Photos



Product



Product



Product



Product



Package



Package

- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

- 1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTB") is made between one or more clients and one or more branches of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereof refers to the regions within the territories of China. The client hereof includes:
- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
- (ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.
- The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
- Any standard terms and conditions of the client of any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.
- In the context of an ongoing business relationship with the client, this GTB shall also expressly apply to future contracts with the client without TÜV Rheinland having to refer them separately in each individual case.

2. Quotations

- Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

3. Coming into effect and duration of contracts

- 3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the works requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.
- 3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
- 3.3 If the contract provides for a duration of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.

4. Scope of services

- 4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations not listed in the service description, as well as the intended use and application of such) are not owed. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.
- 4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.
- 4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
- 4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole and its upstream and/or downstream processes, organizations, and use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

- 4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety requirements or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.
- 4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration resulting additional charges.
- 4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.
- 4.8 The client understands and agrees that the client is responsible for the use of TÜV Rheinland, the client may need to sign one or more contracts/ agreements with a/more third party(ies) and establish legal relationships with/those third party(ies) according to such contracts/agreements, and assuming respective responsibilities and obligations under such contracts/agreements. If TÜV Rheinland engages and/or applies any third testing and certification bodies to provide testing and/or certification services on behalf of the client, TÜV Rheinland acts as an agent of the client in relation of such testing and certification services, therefore, TÜV Rheinland will merely bears the corresponding legal liability according to this contract and the direct services actually to be provided by our company in the service process. Besides, in order to ensure the purpose and quality of the service, TÜV Rheinland, but TÜV Rheinland can also sub-entrust to a third party to provide agency services, but TÜV Rheinland shall not bear any responsibility and/or risk for any services to be provided by any third parties (including agency services) and/or any damages caused by such services. The client is required to conduct any annual review/surveillance of the relevant testing and/or certification service results and pay additional fees in accordance with the relevant laws and regulations or the testing and/or certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation of such annual review/surveillance and pay the corresponding fees. If the client fails to perform such obligations of the annual review/surveillance or does not pay the fees, it may lead to adverse consequences such as failure/ suspending/cancellation/invalidity of testing and/or certification results, which shall not be borneable by TÜV Rheinland.
- 4.9 For the service contract agreed in the contract, the client is required to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client. TÜV Rheinland shall not take any responsibilities or risks for any problems during such delivery and the transportation process (including but not limited to loss of or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance period/dates

- 5.1 The contractually agreed period/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed as binding by TÜV Rheinland in writing.
- 5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.
- Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed period/dates of performance not caused by TÜV Rheinland.
- 5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or has not done so in time and in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
- 5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business interruptions, government regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to replace personnel or equipment.
- 5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜV Rheinland, which enable the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

6. The client's obligation to cooperate

- 6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.
- 6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
- a) it has required statutory qualifications;
- b) the product, service or management system to be certified complies with applicable laws and regulations; and
- c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
- 6.3 If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to i) immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing report/certificates if any.

7. Prices

- 7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on the contractually agreed scope of performance. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
- 7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
- 7.3 If the execution of an order is delayed by the client, the client shall be liable for the contract or the agreed fixed price exceeds €25,000 or its equivalent value in local currency, TÜV Rheinland may demand payments on account or in installments.

8. Payment terms

- 8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.
- 8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.
- 8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
- 8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract and demand a reasonable certificate, claim damages for non-performance and refuse to continue performance of the contract.

- 8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned charges, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.
- 8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.
- 8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.
- 8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month 10% or more and/or purchase of the contract not for the purpose of a daily use, the client shall not be entitled to any rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the rise in fees remains under 5% per contract year, the client shall not have the right to object. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon by the time of expiry of the notice period.
- 8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.
- 8.10 TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees due to the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. Acceptance of work

- 9.1 Any part of the work result ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an installment. The client shall be obliged to accept it immediately.
- 9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.
- 9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
- 9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take its place.
- 9.5 During the follow-up audit, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately charge a lump sum of 10% of the agreed fee or the agreed fee as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.
- 9.6 Insofar as the client undertakes in the contract to accept and confirm the work results, the client shall be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. Confidentiality

- 10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, test certificates and other confidential information, customer and supplier information, and marketing techniques and materials, tangible or intangible, that are supplied, transferred or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form, or by any other means, and which is not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal and not proprietary to the client) within the scope of the provision of services by TÜV Rheinland. TÜV Rheinland reserves the right to use, further develop, and disclose the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.
- 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not take any confidentiality obligations towards the disclosing party. The client understands and agrees that the client is responsible for the use of TÜV Rheinland system (e.g., Wechat, etc. Unauthorized by TÜV Rheinland) to send any confidential information to TÜV Rheinland. Instead, the client shall send any confidential information to company email of TÜV Rheinland employees through its company email system and use any third party platform and/or system (e.g., Wechat, etc. Unauthorized by TÜV Rheinland) to send any confidential information to TÜV Rheinland. However, the client shall not be responsible for the use of any unauthorized communication sharing methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.
- 10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of work by TÜV Rheinland:
- a) may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party;
- b) may not be copied, distributed, published or otherwise disclosed by the receiving party, unless it is necessary for fulfilling the purpose of the contract; and
- c) the receiving party shall be required to pass on confidential information, inspection reports or documentation to the government authorities, judicial court, accreditation bodies or third parties (including but not limited to the client) in writing, at its sole discretion, and shall ensure that the client, its manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products, etc.) that are involved in the performance of the contract do not disclose the confidential information.
- c) must be treated by the receiving party with the same level of confidentiality as the receiving party uses to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required to protect the client's test and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, the client is entitled to make copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to evidence the correctness of its results and for general communication purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
- 10.7 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

11. Copyrights and rights of use, publications

- 11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results calculations, presentations and/or prepare data of TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").
- 11.2 The client receives a simple, unlimited, non-transferable, non-licensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports, test reports/results, results calculations, presentations etc. prepared within the scope of the contract for the contractually agreed purpose.
- 11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTB is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
- 11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.
- 11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2 and any other use of the introduction of TÜV Rheinland need the prior written approval of TÜV Rheinland in each individual case. Besides, the client ensures that the aforesaid use shall comply with relevant applicable laws, regulations and relevant rules (including but not limited to specific applicable testing and certification rules, etc.).
- 11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately to his own expense and, as far as possible, to withdraw publications.
- 11.7 The content of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or test/certification mark of TÜV Rheinland.

12. Liability of TÜV Rheinland

- 12.1 Irrespective of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and/or employees shall be limited to: (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly agreed to be a framework agreement, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.
- 12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its legal representatives. Such limitation shall not apply to damages for a person's death, physical injury or illness.
- 12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is understood as a breach of the obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in clause 12.2 applies.
- 12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract, unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
- 12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
- 12.6 The limitation periods for claims for damages shall be based on statutory provisions.
- 12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. Export control

- 13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
- 13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade regulations or embargo and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

14. Data protection notice

- The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its sales partners (including but not limited to the supplier of the client) for the purpose of fulfilling this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data of the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, we may also process sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding request for deletion of personal data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. Retention of test material and documentation

- 15.1 The test samples submitted by the client for TÜV Rheinland for testing will be scrapped following the test. The client will be liable for the cost of the test samples. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.
- 15.2 Certificates and/or test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.
- 15.3 If reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations shall be kept for the test samples to be placed in storage upon request promptly and free of charge. If the client, in response to such a request, is incapable of making available the reference samples and/or documentation, any liability claims for material and immaterial damage arising from the test samples and/or documentation shall be waived by the client against TÜV Rheinland shall be voided.
- 15.4 The retention period for the documentation shall be 10 (ten) years after the expiry of the test mark certificates or shall correspond to the applicable legal requirements for EU/EEA certificates of conformity and GS mark certificates.
- 15.5 The costs of the handover and dispatch of the test samples for storage on the client's premises and the costs of TÜV Rheinland will be liable for the costs of the test samples and/or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. Termination of the contract

- 16.1 Notwithstanding clause 3.3 of the GTB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined in one contract, each of the combined parts of the contract individually, if the client is in breach of the test samples to be placed in storage within six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to the client's or a suspension of the accreditation or notification.
- 16.2 For good causes, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without bearing any liabilities and the client shall pay the relevant service fees for the services provided by TÜV Rheinland up to the termination date of the contract. The aforesaid good causes includes but not limited to the following:
- a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
- b) the client misuses the certificate or certification mark or uses it in violation of the contract;
- c) in the event of several consecutive delays in payment (at least three times);
- d) the substantial or repeated non-payment of the invoice by the client and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship;
- e) the client is in breach of the contract by gross negligence or intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;
- f) if TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able to fulfill its obligations or to realize the performance of the contract, or if the client, for reasons beyond its control, government interference, sanctions, loss of accreditation or notification, or other;
- g) if the country/region involved in the whole contract or the specific service project in the contract does not belong to the insurance area of TÜV Rheinland, TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract.
- 16.3 In the event of termination with written notice by TÜV Rheinland for good cause, TÜV Rheinland is entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term as lump-sum compensation. TÜV Rheinland reserves the right to prove that the client has caused the damages or losses, or that the damages or losses are considerably higher than the amount of the claim. TÜV Rheinland reserves the right to prove that the damages or losses are considerably higher than the amount of the claim.
- 16.4 TÜV Rheinland is entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. Force Majeure

- 17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have been foreseen at the time of the conclusion of the contract; and (c) that the effects of the impediment could not reasonably be overcome by the affected party.
- 17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1 of the clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy; (iii) currency and trade restrictions, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order, expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vi) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunications, information system or energy; (vii) general labor disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.
- 17.3 The Party substantially invoking this clause is relieved from its duty to perform its obligations under the contract and from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay and that the Party, if notice thereof is not given, is not able to effect the time at which the notice thereof reaches the other Party. Where the effect of the impediment or event invoked is temporary, the above consequences shall apply only as long as the impediment involved impedes performance by the affected Party. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Parties of all work they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period of time after the other Party. Unless otherwise agreed, the above consequences of the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. Hardship

- 18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.
- 18.2 Notwithstanding paragraph 1 of this Clause, where a Party proves that:
- (a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that
- (b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

- 18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. Partial invalidity, written form, place of jurisdiction and dispute resolution

- 19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.
- 19.2 Should one or several of the provisions under this contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.
- 19.3 In the event of the partial invalidity of the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
- a) if TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of the People's Republic of China;
- b) if TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan;
- c) if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.
- 19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled finally through negotiation.
- 19.5 Unless otherwise stipulated in the contract, if no settlement or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted to arbitration.
- a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) in Beijing, unless the parties in the arbitration have agreed otherwise, the place where the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party.
- b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (Taipei) to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
- c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Hong Kong.
- 19.6 The decision of the relevant arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.