TÜVRheinland®
Precisely Right.

Report No.:	178200608b 001
Client:	**NINEBOT (CHANGZHOU) TECH CO., LTD.**
Contact Information:	16F-17F, Block A, Building 3, No.18, Changwu Mid Rd, Wujin Dist., Changzhou, Jiangsu, P. R. China
Identification/ Model No(s):	Segway eKickScooter ZT3 Pro Tested models No.:051801CN, 051801E, 051801U Additional models No.:051801D, 051801A
Sample obtaining method:	Sending by customer
Condition at delivery:	Test item complete and undamaged.
Sample Receiving date:	2024-06-14,2024-06-25,2024-07-01,2024-07-08,2024-07-09,2024-07-12,2024-07-17,2024-07-18,2024-07-19,2024-07-20,2024-07-26
Testing Period:	2024-06-14 to 2024-07-31
Place of testing:	Chemical laboratory Qingdao

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	PASS

Other information:

Remark: This report does not include the test of battery, adapter and power cord.

For and on behalf of
TÜV Rheinland/CCIC (Qingdao) Co., Ltd.

Nina Yang

2024-08-05 — Nina Yang / Senior Project Engineer

Date — *Name/Position*

Material List:

Item: Segway eKickScooter ZT3 Pro
Tested models No.:051801CN, 051801E, 051801U
Additional models No.:051801D, 051801A

Material No.	Material	Color	Location
M001	Coating	black	Refer to photo
M002	Metal	silvery	Refer to photo
M003	Plastic	black	Refer to photo
M004	Plastic	beige	Refer to photo
M005	Metal	black	Refer to photo
M006	Metal + coating	black	Refer to photo
M007	Solder	black	Refer to photo
M008	Plastic	black	Refer to photo
M009	Plastic	black	Refer to photo
M010	Plastic	black	Refer to photo
M011	Plastic + adhesive	black/white	Refer to photo
M012	Plastic + adhesive	transparent	Refer to photo
M013	Plastic	white	Refer to photo
M014	PCB board	black	Refer to photo
M015	Electronic components	yellow	Refer to photo
M016	Solder	silvery	Refer to photo
M017	Electronic components	black	Refer to photo
M018	Electronic components	black	Refer to photo
M019	Plastic	beige	Refer to photo
M020	Plastic	blue	Refer to photo
M021	Plastic	white	Refer to photo
M022	Metal	silvery	Refer to photo
M023	Plastic	red	Refer to photo
M024	Metal	silvery	Refer to photo
M025	PCB board	blue	Refer to photo
M026	Electronic components	black	Refer to photo
M027	Plastic	red	Refer to photo

M028	Electronic components	black	Refer to photo
M029	Solder	silvery	Refer to photo
M030	Electronic components	grey	Refer to photo
M031	Electronic components	brown	Refer to photo
M032	Metal	silvery	Refer to photo
M033	Metal	silvery	Refer to photo
M034	Plastic	grey	Refer to photo
M035	Magnet	black	Refer to photo
M036	Metal	golden	Refer to photo
M037	Electronic components	black	Refer to photo
M038	Electronic components	black	Refer to photo
M039	Electronic components	black	Refer to photo
M040	Electronic components	black	Refer to photo
M041	PCB board	green	Refer to photo
M042	Metal	silvery	Refer to photo
M043	Plastic	black	Refer to photo
M044	Plastic	transparent	Refer to photo
M045	Plastic	black	Refer to photo
M046	Plastic	white	Refer to photo
M047	Plastic	transparent	Refer to photo
M048	Metal	silvery	Refer to photo
M049	Solder	silvery	Refer to photo
M050	Electronic components	black	Refer to photo
M051	Metal + coating	silvery/white	Refer to photo
M052	Electronic components	grey	Refer to photo
M053	Metal	coppery	Refer to photo
M054	Plastic	pink	Refer to photo
M055	Plastic	black	Refer to photo
M056	Plastic	black	Refer to photo
M086	Plastic	black	Refer to photo
M087	Plastic	black	Refer to photo
M088	Metal	silvery	Refer to photo

M089	Metal	silvery	Refer to photo
M090	Metal	black	Refer to photo
M091	Magnet	silvery	Refer to photo
M092	Plastic	red	Refer to photo
M093	Metal	golden	Refer to photo
M094	Plastic	black	Refer to photo
M095	Plastic	red	Refer to photo
M096	Plastic	green	Refer to photo
M097	Plastic	black	Refer to photo
M099	Plastic	black	Refer to photo
M100	Plastic	white	Refer to photo
M101	Plastic	red	Refer to photo
M102	Plastic	black	Refer to photo
M103	Plastic	yellow	Refer to photo
M104	Plastic	green	Refer to photo
M105	Plastic	red	Refer to photo
M106	Plastic	black	Refer to photo
M107	Plastic	blue	Refer to photo
M108	Metal	silvery	Refer to photo
M109	Plastic	white	Refer to photo
M110	Plastic	orange	Refer to photo
M111	Plastic	white	Refer to photo
M112	Metal	silvery	Refer to photo
M113	Metal	silvery	Refer to photo
M114	Plastic	white	Refer to photo
M115	Plastic	light blue	Refer to photo
M116	Plastic	white	Refer to photo
M117	Plastic	yellow	Refer to photo
M118	Plastic	blue	Refer to photo
M119	Plastic	black	Refer to photo
M120	Metal	silvery	Refer to photo
M121	Plastic	black	Refer to photo

M122-1	Solder	silvery	Refer to photo
M123	Metal	golden	Refer to photo
M124	Plastic	red	Refer to photo
M125	Plastic	dark green	Refer to photo
M126	Plastic	light green	Refer to photo
M127	Plastic	black	Refer to photo
M128	Plastic	red	Refer to photo
M129	Metal	silvery	Refer to photo
M130	Plastic	black	Refer to photo
M131	Plastic	orange	Refer to photo
M132	Plastic	grey	Refer to photo
M133	Plastic	yellow	Refer to photo
M134	Plastic	white	Refer to photo
M135	Metal	silvery	Refer to photo
M136	Plastic	black	Refer to photo
M137	Plastic	blue	Refer to photo
M138	Plastic	red	Refer to photo
M139	Plastic	black	Refer to photo
M140	Plastic	yellow	Refer to photo
M141	Plastic	green	Refer to photo
M142	Metal	silvery	Refer to photo
M143	Plastic	red	Refer to photo
M144	Plastic	black	Refer to photo
M145	Plastic	orange	Refer to photo
M146	Metal	coppery	Refer to photo
M147	Plastic	black	Refer to photo
M148	Plastic	black	Refer to photo
M149	Plastic	black	Refer to photo
M150	Metal	silvery	Refer to photo
M151	Solder	silvery	Refer to photo
M152	Plastic	black	Refer to photo
M153	Plastic	white	Refer to photo

M154	Plastic	black	Refer to photo
M155	Plastic	black	Refer to photo
M156	Plastic	white	Refer to photo
M157	Metal	black	Refer to photo
M158	Metal	black	Refer to photo
M159	Metal	black	Refer to photo
M160	Metal	black	Refer to photo
M161	Metal	black	Refer to photo
M162	Metal	black	Refer to photo
M163	Metal	black	Refer to photo
M164	Metal	black	Refer to photo
M165	Metal	black	Refer to photo
M166	Plastic + printing + adhesive	white/transparent	Refer to photo
M167	Coating	silvery	Refer to photo
M168	Metal	black	Refer to photo
M169	Plastic + paper + adhesive	white/black	Refer to photo
M170	Metal	silvery	Refer to photo
M171	Metal + coating	black	Refer to photo
M172	Plastic	black	Refer to photo
M173	Plastic	black	Refer to photo
M174	Metal	silvery	Refer to photo
M175	Metal	silvery	Refer to photo
M176	Metal	black	Refer to photo
M177	Metal	silvery	Refer to photo
M178	Metal	silvery	Refer to photo
M179	Metal	black	Refer to photo
M180	Metal	silvery	Refer to photo
M181	Metal	black	Refer to photo
M182	Metal	black	Refer to photo
M183	Metal	black	Refer to photo
M184	Plastic	black	Refer to photo

M185	Metal	silvery	Refer to photo
M186	Metal	black	Refer to photo
M187	Plastic	white	Refer to photo
M188	Plastic	black	Refer to photo
M189	Metal	silvery	Refer to photo
M190	Metal	silvery	Refer to photo
M191	Metal	silvery	Refer to photo
M192	Metal	black	Refer to photo
M193	Metal	black	Refer to photo
M194	Metal	black	Refer to photo
M195	Metal	silvery	Refer to photo
M196	Metal	silvery	Refer to photo
M197	Metal	silvery	Refer to photo
M198	Metal	yellow	Refer to photo
M199	Plastic	black	Refer to photo
M200	Metal	black	Refer to photo
M201	Metal	golden	Refer to photo
M202	Plastic	black	Refer to photo
M203	Plastic	black	Refer to photo
M204	Metal	silvery	Refer to photo
M205	Metal	silvery	Refer to photo
M217	Coating	red	Refer to photo
M218	Metal	silvery	Refer to photo
M219	Solder	red	Refer to photo
M220	Metal + coating	black	Refer to photo
M221	Plastic	black	Refer to photo
M222	Metal	silvery	Refer to photo
M223-1	Plastic + adhesive	white	Refer to photo
M224	Metal	black	Refer to photo
M225	Metal	black	Refer to photo
M226	Metal	black	Refer to photo
M227	Solder	black	Refer to photo

M228	Metal	black	Refer to photo
M229	Metal	black	Refer to photo
M230	Solder	black	Refer to photo
M231	Metal	black	Refer to photo
M232	Metal	silvery	Refer to photo
M233	Metal	silvery	Refer to photo
M234	Metal	silvery	Refer to photo
M235	Metal	golden	Refer to photo
M236	Plastic	black	Refer to photo
M237	Metal	black	Refer to photo
M238	Metal	silvery	Refer to photo
M239	Metal	silvery	Refer to photo
M240	Metal	black	Refer to photo
M241	Metal	black	Refer to photo
M242	Metal	silvery	Refer to photo
M243	Metal	silvery	Refer to photo
M244	Coating	black	Refer to photo
M245	Metal	silvery	Refer to photo
M246	Metal	black	Refer to photo
M247	Metal	black	Refer to photo
M248	Plastic	black	Refer to photo
M249	Metal + plating	black	Refer to photo
M250	Metal + coating	black	Refer to photo
M251	Plastic + printing + adhesive	black/silvery	Refer to photo
M252	Plastic	black	Refer to photo
M253	Metal	silvery	Refer to photo
M254	Metal	black	Refer to photo
M255	Metal	silvery	Refer to photo
M256	Paper + printing + adhesive	white/black	Refer to photo
M257	Plastic	white	Refer to photo
M258	Metal	silvery	Refer to photo

M259	Electronic components	black	Refer to photo
M260	Plastic	yellow	Refer to photo
M261	Metal	golden	Refer to photo
M262	Electronic components	black	Refer to photo
M263	Metal	silvery	Refer to photo
M264	Plastic + adhesive	brown	Refer to photo
M265	Plastic	black	Refer to photo
M266	Metal	silvery	Refer to photo
M267	Metal	coppery	Refer to photo
M268	Electronic components	black	Refer to photo
M269	Electronic components	black	Refer to photo
M270	Electronic components	black	Refer to photo
M271	Electronic components	grey	Refer to photo
M272	Plastic	brown	Refer to photo
M273	Electronic components	black	Refer to photo
M274	Glue	white	Refer to photo
M275	Electronic components	black	Refer to photo
M276	Electronic components	red	Refer to photo
M277	Electronic components	grey	Refer to photo
M278	Electronic components	black	Refer to photo
M279	Plastic	blue/white	Refer to photo
M280	Metal	silvery	Refer to photo
M281	Metal	silvery	Refer to photo
M282	Paper	brown	Refer to photo
M283	Plastic	black	Refer to photo
M284	Plastic	orange/black	Refer to photo
M285	Metal	silvery	Refer to photo
M286	Metal	silvery	Refer to photo
M287	PCB board	green	Refer to photo
M288	Electronic components	black	Refer to photo
M289	Solder	silvery	Refer to photo
M290	Metal	black	Refer to photo

M291	Metal	silvery	Refer to photo
M292	Plastic	black	Refer to photo
M293	Plastic	black	Refer to photo
M294	Plastic	black	Refer to photo
M295	Foam + adhesive	black	Refer to photo
M296	Metal	black	Refer to photo
M297	Metal	silvery	Refer to photo
M298	Plastic	black	Refer to photo
M299	Plastic	red	Refer to photo
M300	Plastic	black	Refer to photo
M301	Metal	black	Refer to photo
M302	Solder	silvery	Refer to photo
M303	Metal + coating	black	Refer to photo
M304	Electronic components	white	Refer to photo
M305	Plastic	black	Refer to photo
M306	Metal	silvery	Refer to photo
M307	Plastic	black	Refer to photo
M308	Magnet	golden	Refer to photo
M309	Metal + coating	black	Refer to photo
M310	Metal	coppery	Refer to photo
M311	Metal	silvery	Refer to photo
M312	Glue	white	Refer to photo
M313	Solder	silvery	Refer to photo
M314	Plastic	black	Refer to photo
M315	Metal	silvery	Refer to photo
M316	Plastic	green	Refer to photo
M317	Plastic	yellow	Refer to photo
M318	Solder	silvery	Refer to photo
M319	PCB board	green	Refer to photo
M320	Plastic	white	Refer to photo
M321	Electronic components	brown	Refer to photo
M322	Paper + adhesive	green	Refer to photo

M323	Plastic	white	Refer to photo
M324	Plastic + adhesive	white	Refer to photo
M325	Plastic	black	Refer to photo
M326	Metal	silevry	Refer to photo
M327	Metal	silevry	Refer to photo
M328	Metal	silevry	Refer to photo
M329	Metal	silevry	Refer to photo
M330	Metal	black	Refer to photo
M331	Plastic	black	Refer to photo
M332	Plastic	brown	Refer to photo
M333	Plastic	blue	Refer to photo
M334	Plastic	yellow	Refer to photo
M335	Metal	silvery	Refer to photo
M336	Plastic	white	Refer to photo
M337	Metal	silvery	Refer to photo
M338	Metal	silvery	Refer to photo
M339	Glue	transparent	Refer to photo
M340	Plastic	blue	Refer to photo
M341	Metal	silvery	Refer to photo
M342	Plastic	black	Refer to photo
M343	Metal	silvery	Refer to photo
M344	Plastic	white	Refer to photo
M345	Plastic	yellow	Refer to photo
M346	Plastic	green	Refer to photo
M347	Plastic	transparent	Refer to photo
M348	Plastic	black	Refer to photo
M349	Metal	silvery	Refer to photo
M350	Electronic components	black	Refer to photo
M351	Metal	silvery	Refer to photo
M352	Plastic	black	Refer to photo
M353	Metal	black	Refer to photo
M354	Metal	silvery	Refer to photo

M355-1	Plastic	black	Refer to photo
M356	Plastic	white	Refer to photo
M357	Metal	silvery	Refer to photo
M358	Metal	grey	Refer to photo
M359	Textile + adhesive	grey	Refer to photo
M360	Plastic	black	Refer to photo
M361	Plastic	transparent	Refer to photo
M362	Plastic	black	Refer to photo
M363	Plastic	white	Refer to photo
M364	Plastic	transparent	Refer to photo
M365	Metal	silvery	Refer to photo
M366	Electronic components	grey	Refer to photo
M367	Metal + coating	white/silvery	Refer to photo
M368	Solder	silvery	Refer to photo
M369	Plastic	white	Refer to photo
M370	Glue	transparent	Refer to photo
M371	Plastic	red	Refer to photo
M372	Plastic	black	Refer to photo
M373	Plastic	black	Refer to photo
M374	Metal	silvery	Refer to photo
M377*	Glue	black	Refer to photo
M383*	PCB board	black	Refer to photo
M391	Plastic	red	Refer to photo
M392	Coating	red	Refer to photo
M393	Metal	silvery	Refer to photo
M394	Metal	silvery	Refer to photo
M395	Metal	black	Refer to photo
M396	Metal	silvery	Refer to photo
M397	Magnet	silvery	Refer to photo
M398	Metal	red	Refer to photo
M399	Metal	silvery	Refer to photo
M400	Metal	silvery	Refer to photo

M401	Metal	black	Refer to photo
M402	Plastic	black	Refer to photo
M403	Plastic	black	Refer to photo
M404	Plastic	black	Refer to photo
M405	Solder	silvery	Refer to photo
M406	Solder	silvery	Refer to photo
M407	Solder	silvery	Refer to photo
M408	Solder	silvery	Refer to photo
M409	Solder	silvery	Refer to photo
M410	Solder	silvery	Refer to photo
M411	Solder	silvery	Refer to photo
M412	Solder	silvery	Refer to photo
M413	Solder	silvery	Refer to photo
M414	Solder	silvery	Refer to photo
M415	Solder	silvery	Refer to photo
M419	Solder	silvery	Refer to photo
M420	Solder	silvery	Refer to photo
M421-1	Solder	silvery	Refer to photo
M423	Solder	silvery	Refer to photo
M424	Solder	silvery	Refer to photo
M425	Solder	silvery	Refer to photo
M426	Solder	silvery	Refer to photo
M427	Solder	silvery	Refer to photo
M428	Solder	silvery	Refer to photo
M429	Solder	silvery	Refer to photo
M430	Solder	silvery	Refer to photo
M431	Solder	silvery	Refer to photo
M432	Solder	silvery	Refer to photo
M433	Solder	silvery	Refer to photo
M434	Plastic	black	Refer to photo
M435	Plastic	black	Refer to photo
M436	Metal	silvery	Refer to photo

M437	Plastic	transparent	Refer to photo
M438	Plastic	black	Refer to photo
M439	Glue	black	Refer to photo
M440	Metal + coating	silvery/white	Refer to photo
M441	Solder	silvery	Refer to photo
M442	Electronic components	yellow	Refer to photo
M443	Plastic	white	Refer to photo
M444	Plastic	white	Refer to photo
M445	Metal	silvery	Refer to photo
M446	Plastic	red	Refer to photo
M447	Plastic	black	Refer to photo
M448	Plastic	green	Refer to photo
M449	Plastic	yellow	Refer to photo
M450	Plastic	black	Refer to photo
M451	Plastic	black	Refer to photo
M452	Metal	silvery	Refer to photo
M453	Plastic	transparent	Refer to photo
M454	Plastic	black	Refer to photo
M455	Glue	black	Refer to photo
M456	Metal + coating	silvery/black	Refer to photo
M457	Electronic components	yellow	Refer to photo
M458	Solder	silvery	Refer to photo
M459	Plastic	white	Refer to photo
M460	Plastic	black	Refer to photo
M461	Plastic	black	Refer to photo
M462	Plastic	red	Refer to photo
M463	Plastic	green	Refer to photo
M464	Plastic	yellow	Refer to photo
M465	Metal	silvery	Refer to photo
M466	Plastic	black	Refer to photo
M467	Plastic	red	Refer to photo
M468	Plastic	green	Refer to photo

M469	Plastic	black	Refer to photo
M470	Metal	silvery	Refer to photo
M471	Plastic	black	Refer to photo
M472	Plastic	black	Refer to photo
M473	Plastic	black	Refer to photo
M474	Plastic	transparent	Refer to photo
M475	Plastic	black	Refer to photo
M476	Plastic	white	Refer to photo
M477	PCB board	black	Refer to photo
M478	Solder	silvery	Refer to photo
M479	Electronic components	black	Refer to photo
M480	Metal	silvery	Refer to photo
M481	Metal	silvery	Refer to photo
M482	Plastic	black	Refer to photo
M483	Glue	transparent	Refer to photo
M484	PCB board	white	Refer to photo
M485	Solder	silvery	Refer to photo
M486	Plastic	black	Refer to photo
M487	Plastic	red	Refer to photo
M488	Plastic	black	Refer to photo
M489	Metal	silvery	Refer to photo
M490	Plastic	black	Refer to photo
M491	Plastic	black	Refer to photo
M492	Plastic	black	Refer to photo
M493-1	Solder	silvery	Refer to photo
M494	Metal	golden	Refer to photo
M495	Plastic	red	Refer to photo
M496	Plastic	white	Refer to photo
M497	Plastic	black	Refer to photo
M498	Glue	transparent	Refer to photo
M499	PCB board	white	Refer to photo
M500	Solder	silvery	Refer to photo

M501	Plastic	black	Refer to photo
M502	Plastic	red	Refer to photo
M503	Plastic	black	Refer to photo
M504	Metal	silvery	Refer to photo
M505	Plastic	black	Refer to photo
M506	Plastic	black	Refer to photo
M507	Solder	silvery	Refer to photo
M508	Metal	golden	Refer to photo
M509	Plastic	red	Refer to photo
M510	Plastic	black	Refer to photo
M511	Plastic	black	Refer to photo
M512	Plastic	black	Refer to photo
M513	Plastic	black	Refer to photo
M514	Metal	silvery	Refer to photo
M515	Metal	silvery	Refer to photo
M516	Metal	black	Refer to photo
M517	Metal	golden	Refer to photo
M518	Plastic	black	Refer to photo
M519	Plastic	red	Refer to photo
M520	Plastic	white/grey	Refer to photo
M521	Plastic	green	Refer to photo
M522	Plastic	black	Refer to photo
M523	Plastic	red	Refer to photo
M524	Solder	silvery	Refer to photo
M525	Metal	silvery	Refer to photo
M526	Electronic components	black	Refer to photo
M527	Plastic	black	Refer to photo
M528	Plastic	red	Refer to photo
M529	Plastic	black	Refer to photo
M530	Metal	silvery	Refer to photo
M531	Metal	silvery	Refer to photo
M532	Metal	silvery	Refer to photo

M533	Plastic	transparent	Refer to photo
M534	Metal	silvery	Refer to photo
M535	Plastic	black	Refer to photo
M536	Foam + adhesive	black	Refer to photo
M537	Metal	coppery	Refer to photo
M538	Solder	silvery	Refer to photo
M539	PCB board	green	Refer to photo
M540	Metal	silvery	Refer to photo
M541	Plastic	blue	Refer to photo
M542	Plastic	grey	Refer to photo
M543	Plastic	black	Refer to photo
M544	Plastic	black	Refer to photo
M545	Plastic	white	Refer to photo
M546	Plastic	black	Refer to photo
M547	Plastic	white	Refer to photo
M548	Plastic	blue	Refer to photo
M549	Plastic	yellow	Refer to photo
M550	Plastic	green	Refer to photo
M551	Plastic	red	Refer to photo
M552	Metal	silvery	Refer to photo
M553	Plastic	black	Refer to photo
M554	Metal + coating	black	Refer to photo
M555	Metal	black	Refer to photo
M556	Metal	black	Refer to photo
M557	Metal	black	Refer to photo
M558	Metal	black	Refer to photo
M559	Plastic	black	Refer to photo
M560	Plastic	black	Refer to photo
M561	Plastic	black	Refer to photo
M562	Plastic	red	Refer to photo
M563	Plastic	black	Refer to photo
M564	Metal	silvery	Refer to photo

M565	Plastic	red	Refer to photo
M566	Plastic	grey	Refer to photo
M567	Plastic	grey	Refer to photo
M568	Plastic	black	Refer to photo
M569	Plastic	black	Refer to photo
M570	Metal	silvery	Refer to photo
M571	Metal	black	Refer to photo
M572	Metal	black	Refer to photo
M573	Metal	black	Refer to photo
M574	Metal	black	Refer to photo
M575	Metal	black	Refer to photo
M576	Metal	silvery	Refer to photo
M577	Plastic	black	Refer to photo
M578	Plastic	black	Refer to photo
M579	Plastic	red	Refer to photo
M580	Plastic	blue	Refer to photo
M581	Metal	silvery	Refer to photo
M582	Glue	transparent	Refer to photo
M583	Plastic	white	Refer to photo
M584	Solder	silvery	Refer to photo
M585	Glue	black	Refer to photo
M586	PCB board	green	Refer to photo
M587	Glue	black	Refer to photo
M588	Plastic	black	Refer to photo
M589	Plastic + adhesive	grey	Refer to photo
M590	Plastic	black	Refer to photo
M591	Plastic	black	Refer to photo
M592	Plastic	grey	Refer to photo
M593	Plastic	black	Refer to photo
M594	Plastic	white/transparent	Refer to photo
M595	Plastic	yellow	Refer to photo
M596	Plastic + printing + adhesive	yellow/black	Refer to photo

M597	Plastic + printing + adhesive	black/grey	Refer to photo
M598	Plastic + printing + adhesive	red/black/yellow	Refer to photo
M599	Metal	black	Refer to photo
M600	Metal	black	Refer to photo
M601	Metal	silvery	Refer to photo
M602	Coating	blue	Refer to photo
M603	Metal	bronze	Refer to photo
M604-1	Metal	silvery	Refer to photo
M605	Plastic	blue	Refer to photo
M606	Coating	white	Refer to photo
M607	Coating	white	Refer to photo
M608	Coating	white	Refer to photo
M609	Glue	black	Refer to photo
M610	Glue	grey	Refer to photo
M611	Coating	grey	Refer to photo
M612	Plastic	black	Refer to photo
M613	Metal	black	Refer to photo
M614	Metal	black	Refer to photo
M615	Metal	black	Refer to photo
M616	Metal	black	Refer to photo
M617	Metal	black	Refer to photo
M618	Metal	black	Refer to photo
M619	Metal	black	Refer to photo
M620	Metal	black	Refer to photo
M621	Metal	black	Refer to photo
M622	Metal	black	Refer to photo
M623	Metal	black	Refer to photo
M624	Metal	black	Refer to photo
M625	Metal	black	Refer to photo
M626	Metal	black	Refer to photo
M627	Metal	black	Refer to photo

M628	Metal	black	Refer to photo
M629	Metal	silvery	Refer to photo
M630	Plastic	black	Refer to photo
M631	Coating	white	Refer to photo
M632	Coating	red	Refer to photo
M633	Coating	white	Refer to photo
M634	Coating	translucent	Refer to photo
M635	Coating	translucent	Refer to photo
M636	Coating	yellow	Refer to photo
M637	Metal	silvery	Refer to photo
M638	Metal	silvery	Refer to photo
M639	Coating	black	Refer to photo
M640	Metal	silvery	Refer to photo

Remark: The materials marked(*) need not be shown in this report. However, the samples are composite sample containing the above marked materials, so they are still listed here.

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	n.a.
M003	BL	BL	BL	BL	BL
M004	BL	BL	BL	BL	BL
M005	BL	d.(*1)	BL	BL	n.a.
M006	BL	BL	BL	BL	n.a.
M007	BL	BL	BL	BL	n.a.
M008	BL	BL	BL	BL	BL
M009	BL	BL	BL	BL	BL
M010	BL	BL	BL	BL	BL
M011	BL	BL	BL	BL	BL
M012	BL	BL	BL	BL	BL
M013	BL	BL	BL	BL	BL
M014	BL	BL	BL	BL	d.(*1)
M015	BL	BL	BL	BL	BL
M016	BL	BL	BL	BL	n.a.
M017	BL	BL	BL	BL	BL
M018	BL	BL	d.(*1)	BL	d.(*1)
M019	d.(*1)	BL	BL	BL	d.(*1)
M020	BL	BL	BL	BL	BL
M021	BL	BL	BL	BL	BL
M022	BL	BL	BL	BL	n.a.
M023	BL	BL	BL	BL	BL
M024	BL	BL	BL	BL	n.a.
M025	BL	BL	BL	BL	BL
M026	BL	BL	BL	d.(*1)	BL
M027	BL	BL	BL	BL	BL
M028	BL	BL	BL	BL	BL
M029	BL	BL	BL	d.(*1)	n.a.
M030	d.(*1)	BL	BL	BL	BL
M031	BL	BL	BL	BL	BL
M032	BL	d.(*1)	BL	BL	n.a.
M033	BL	BL	BL	BL	n.a.
M034	BL	BL	BL	BL	BL
M035	BL	BL	BL	BL	n.a.
M036	BL	BL	BL	BL	n.a.
M037	BL	BL	d.(*1)	BL	BL

M038	BL	BL	d.(*1)	BL	BL
M039	BL	BL	BL	BL	BL
M040	BL	BL	BL	BL	BL
M041	BL	BL	BL	d.(*1)	d.(*1)
M042	BL	d.(*1)	BL	BL	n.a.
M043	BL	BL	BL	BL	BL
M044	BL	BL	BL	BL	BL
M045	BL	BL	BL	BL	BL
M046	BL	BL	BL	BL	BL
M047	BL	BL	BL	BL	BL
M048	BL	d.(*1)	BL	BL	n.a.
M049	BL	BL	BL	BL	n.a.
M050	BL	BL	BL	BL	BL
M051	BL	BL	BL	BL	n.a.
M052	BL	BL	BL	BL	d.(*1)
M053	BL	BL	BL	BL	n.a.
M054	BL	BL	BL	BL	BL
M055	BL	BL	BL	BL	BL
M056	BL	BL	BL	BL	BL
M086	BL	BL	BL	BL	BL
M087	BL	BL	BL	BL	BL
M088	BL	BL	BL	BL	n.a.
M089	BL	BL	BL	BL	n.a.
M090	BL	BL	BL	BL	n.a.
M091	BL	BL	BL	BL	n.a.
M092	BL	BL	BL	BL	BL
M093	BL	BL	BL	BL	n.a.
M094	BL	BL	BL	BL	BL
M095	BL	BL	BL	BL	BL
M096	BL	BL	BL	BL	n.a.
M097	BL	BL	BL	BL	BL
M098	BL	BL	BL	BL	n.a.
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	BL	BL	BL	BL	BL
M105	BL	BL	BL	BL	BL
M106	BL	BL	BL	BL	BL
M107	BL	BL	BL	BL	BL
M108	BL	BL	BL	BL	n.a.
M109	BL	BL	BL	BL	BL

M110	BL	BL	BL	BL	BL
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	BL
M115	BL	BL	BL	BL	BL
M116	BL	BL	BL	BL	d.(*1)
M117	BL	BL	BL	BL	d.(*1)
M118	BL	BL	BL	BL	BL
M119	BL	BL	BL	BL	BL
M120	d.(*1)	BL	BL	BL	n.a.
M121	BL	BL	BL	BL	BL
M123	BL	BL	d.(*1)	BL	n.a.
M124	BL	BL	BL	BL	d.(*1)
M125	BL	BL	BL	BL	BL
M126	BL	BL	BL	BL	BL
M127	BL	d.(*1)	BL	BL	BL
M128	BL	BL	BL	BL	BL
M129	BL	BL	BL	BL	n.a.
M130	BL	BL	BL	BL	BL
M131	BL	BL	BL	BL	BL
M132	BL	BL	BL	BL	BL
M133	BL	BL	BL	BL	BL
M134	BL	BL	BL	BL	BL
M135	BL	BL	BL	BL	n.a.
M136	BL	BL	BL	BL	BL
M137	BL	BL	BL	BL	BL
M138	BL	BL	BL	BL	BL
M139	BL	BL	BL	BL	BL
M140	BL	BL	BL	BL	BL
M141	BL	BL	BL	BL	BL
M142	BL	BL	BL	BL	n.a.
M143	BL	BL	BL	BL	BL
M144	BL	BL	BL	BL	BL
M145	BL	BL	BL	BL	BL
M146	BL	BL	BL	BL	n.a.
M147	BL	BL	BL	BL	BL
M148	BL	BL	BL	BL	d.(*1)
M149	BL	BL	BL	BL	d.(*1)
M150	BL	BL	d.(*1)	BL	n.a.
M151	BL	BL	BL	BL	n.a.
M152	BL	BL	BL	BL	BL
M153	BL	BL	BL	BL	BL

M154	BL	BL	BL	BL	BL
M155	BL	BL	BL	BL	BL
M156	BL	BL	BL	BL	BL
M157	BL	d.(*1)	BL	BL	n.a.
M158	BL	d.(*1)	BL	BL	n.a.
M159	BL	d.(*1)	BL	BL	n.a.
M160	BL	d.(*1)	BL	BL	n.a.
M161	BL	d.(*1)	BL	BL	n.a.
M162	BL	BL	BL	BL	n.a.
M163	BL	BL	BL	BL	n.a.
M164	BL	d.(*1)	BL	BL	n.a.
M165	BL	d.(*1)	BL	BL	n.a.
M166	BL	BL	BL	BL	BL
M167	BL	BL	BL	BL	BL
M168	BL	BL	BL	BL	n.a.
M169	BL	BL	BL	BL	BL
M170	BL	BL	BL	BL	n.a.
M171	BL	BL	BL	BL	BL
M172	BL	BL	BL	BL	BL
M173	BL	BL	BL	BL	BL
M174	BL	d.(*1)	BL	BL	n.a.
M175	BL	d.(*1)	BL	BL	n.a.
M176	BL	d.(*1)	BL	BL	n.a.
M177	BL	d.(*1)	BL	BL	n.a.
M178	BL	d.(*1)	BL	BL	n.a.
M179	BL	d.(*1)	BL	BL	n.a.
M180	BL	d.(*1)	BL	BL	n.a.
M181	BL	d.(*1)	BL	BL	n.a.
M182	BL	d.(*1)	BL	BL	n.a.
M183	BL	d.(*1)	BL	BL	n.a.
M184	BL	BL	BL	BL	BL
M185	BL	BL	BL	BL	n.a.
M186	BL	d.(*1)	BL	BL	n.a.
M187	BL	BL	BL	BL	BL
M188	BL	BL	BL	BL	BL
M189	BL	BL	BL	BL	n.a.
M190	BL	BL	BL	BL	n.a.
M191	BL	BL	BL	BL	n.a.
M192	BL	d.(*1)	BL	BL	n.a.
M193	BL	d.(*1)	BL	BL	n.a.
M194	BL	d.(*1)	BL	BL	n.a.
M195	BL	d.(*1)	BL	BL	n.a.
M196	BL	BL	BL	BL	n.a.

M197	BL	d.(*1)	BL	BL	n.a.
M198	BL	BL	BL	BL	n.a.
M199	BL	BL	BL	BL	BL
M200	BL	d.(*1)	BL	BL	n.a.
M201	BL	BL	d.(*1)	BL	n.a.
M202	BL	BL	BL	BL	BL
M203	BL	BL	BL	BL	BL
M204	BL	d.(*1)	BL	BL	n.a.
M205	BL	d.(*1)	BL	BL	n.a.
M217	BL	BL	BL	BL	BL
M218	BL	BL	BL	BL	n.a.
M219	BL	d.(*1)	BL	BL	n.a.
M220	BL	BL	BL	BL	BL
M221	BL	BL	BL	BL	BL
M222	BL	d.(*1)	BL	BL	n.a.
M224	BL	d.(*1)	BL	BL	n.a.
M225	BL	BL	BL	BL	n.a.
M226	BL	BL	BL	BL	n.a.
M227	BL	BL	BL	BL	n.a.
M228	BL	BL	BL	BL	n.a.
M229	BL	BL	BL	BL	n.a.
M230	BL	BL	BL	BL	n.a.
M231	BL	d.(*1)	BL	BL	n.a.
M232	BL	BL	BL	BL	n.a.
M233	BL	BL	BL	BL	n.a.
M234	BL	BL	BL	BL	n.a.
M235	BL	BL	BL	BL	n.a.
M236	BL	BL	BL	BL	BL
M237	BL	d.(*1)	BL	BL	n.a.
M238	BL	d.(*1)	BL	BL	n.a.
M239	BL	BL	BL	BL	n.a.
M240	BL	d.(*1)	BL	BL	n.a.
M241	BL	BL	BL	BL	n.a.
M242	BL	d.(*1)	BL	BL	n.a.
M243	BL	BL	BL	BL	n.a.
M244	BL	BL	BL	BL	BL
M245	BL	d.(*1)	BL	BL	n.a.
M246	BL	BL	BL	BL	n.a.
M247	BL	BL	BL	BL	n.a.
M248	BL	BL	BL	BL	BL
M249	BL	BL	BL	BL	BL
M250	BL	d.(*1)	BL	BL	BL
M251	BL	BL	BL	BL	BL

M252	BL	BL	BL	BL	BL
M253	BL	BL	BL	BL	n.a.
M254	BL	BL	BL	BL	n.a.
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	BL
M260	BL	BL	BL	BL	d.(*1)
M261	BL	BL	d.(*1)	BL	n.a.
M262	BL	BL	d.(*1)	BL	BL
M263	BL	BL	BL	BL	n.a.
M264	BL	BL	BL	BL	BL
M265	BL	BL	BL	BL	BL
M266	BL	BL	BL	BL	n.a.
M267	BL	BL	BL	BL	n.a.
M268	BL	BL	BL	BL	BL
M269	BL	BL	BL	BL	BL
M270	BL	BL	BL	BL	BL
M271	BL	BL	BL	BL	BL
M272	BL	BL	BL	BL	BL
M273	BL	BL	BL	BL	BL
M274	BL	BL	BL	BL	BL
M275	BL	BL	BL	BL	BL
M276	BL	BL	BL	BL	BL
M277	BL	d.(*1)	BL	BL	BL
M278	BL	BL	BL	BL	BL
M279	BL	BL	BL	BL	BL
M280	BL	BL	BL	BL	n.a.
M281	BL	BL	BL	BL	n.a.
M282	BL	BL	BL	BL	BL
M283	BL	BL	BL	BL	BL
M284	BL	BL	BL	BL	BL
M285	BL	d.(*1)	BL	BL	n.a.
M286	BL	d.(*1)	BL	BL	n.a.
M287	BL	BL	BL	BL	d.(*1)
M288	BL	BL	BL	BL	n.a.
M289	BL	BL	BL	BL	n.a.
M290	BL	BL	BL	BL	n.a.
M291	BL	BL	BL	BL	n.a.
M292	BL	BL	BL	BL	BL
M293	BL	BL	BL	BL	BL
M294	BL	BL	BL	BL	BL

M295	BL	BL	BL	BL	BL
M296	BL	d.(*1)	BL	BL	n.a.
M297	BL	d.(*1)	BL	BL	n.a.
M298	BL	BL	BL	BL	BL
M299	BL	BL	BL	BL	BL
M300	BL	BL	BL	BL	BL
M301	BL	BL	BL	BL	n.a.
M302	BL	BL	BL	BL	n.a.
M303	BL	BL	BL	BL	BL
M304	d.(*1)	BL	BL	BL	BL
M305	BL	BL	BL	BL	BL
M306	BL	BL	BL	BL	n.a.
M307	BL	BL	BL	BL	BL
M308	BL	d.(*1)	BL	BL	n.a.
M309	BL	BL	BL	BL	BL
M310	BL	BL	BL	BL	n.a.
M311	BL	BL	BL	BL	n.a.
M312	BL	BL	BL	BL	BL
M313	BL	BL	BL	BL	n.a.
M314	BL	BL	BL	BL	BL
M315	BL	d.(*1)	BL	BL	n.a.
M316	BL	BL	BL	BL	BL
M317	BL	BL	BL	BL	BL
M318	BL	BL	BL	d.(*1)	n.a.
M319	BL	BL	BL	BL	d.(*1)
M320	BL	BL	BL	BL	BL
M321	BL	BL	BL	BL	d.(*1)
M322	BL	BL	BL	BL	BL
M323	BL	BL	BL	BL	BL
M324	BL	BL	BL	BL	BL
M325	BL	BL	BL	BL	BL
M326	BL	BL	BL	BL	n.a.
M327	BL	BL	BL	BL	n.a.
M328	BL	d.(*1)	BL	BL	n.a.
M329	BL	d.(*1)	BL	BL	n.a.
M330	BL	d.(*1)	BL	BL	n.a.
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	n.a.
M336	BL	BL	BL	BL	BL
M337	BL	BL	BL	BL	n.a.

M338	BL	d.(*1)	BL	BL	n.a.
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	n.a.
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	n.a.
M350	BL	BL	BL	BL	BL
M351	BL	d.(*1)	BL	BL	n.a.
M352	BL	BL	BL	BL	d.(*1)
M353	BL	BL	BL	BL	n.a.
M354	BL	d.(*1)	BL	BL	n.a.
M355-1	BL	BL	BL	BL	BL
M356	BL	BL	BL	BL	BL
M357	BL	d.(*1)	BL	BL	n.a.
M358	BL	BL	d.(*1)	BL	n.a.
M359	BL	BL	BL	BL	BL
M360	BL	BL	BL	BL	BL
M361	BL	BL	BL	BL	BL
M362	BL	BL	BL	BL	BL
M363	BL	BL	BL	BL	BL
M364	BL	BL	BL	BL	BL
M365	BL	BL	BL	BL	n.a.
M366	BL	BL	BL	BL	BL
M367	BL	BL	BL	BL	BL
M368	d.(*1)	BL	BL	BL	n.a.
M369	BL	BL	BL	BL	BL
M370	BL	BL	BL	BL	BL
M371	BL	BL	BL	BL	BL
M372	BL	BL	BL	BL	BL
M373	BL	BL	BL	BL	BL
M374	d.(*1)	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	n.a.
M395	BL	BL	BL	BL	n.a.
M396	BL	BL	BL	BL	n.a.

M397	BL	BL	BL	BL	n.a.
M398	BL	BL	BL	BL	n.a.
M399	BL	BL	BL	BL	n.a.
M400	BL	d.(*1)	BL	BL	n.a.
M401	BL	d.(*1)	BL	BL	n.a.
M402	BL	BL	BL	BL	BL
M403	BL	BL	BL	BL	BL
M404	BL	BL	BL	BL	BL
M405	BL	BL	BL	BL	n.a.
M406	BL	BL	BL	BL	n.a.
M407	BL	BL	BL	BL	n.a.
M408	BL	BL	BL	BL	n.a.
M409	BL	BL	BL	BL	n.a.
M410	BL	BL	BL	BL	n.a.
M411	BL	BL	BL	BL	n.a.
M412	BL	BL	BL	BL	n.a.
M413	BL	BL	BL	BL	n.a.
M414	BL	BL	BL	BL	n.a.
M415	BL	BL	BL	BL	n.a.
M419	BL	BL	d.(*1)	BL	n.a.
M420	BL	BL	BL	BL	n.a.
M423	BL	BL	BL	BL	n.a.
M424	BL	BL	BL	BL	n.a.
M425	BL	BL	BL	d.(*1)	n.a.
M426	BL	BL	BL	BL	n.a.
M427	BL	BL	BL	BL	n.a.
M428	BL	BL	BL	BL	n.a.
M429	BL	BL	BL	BL	n.a.
M430	BL	BL	BL	BL	n.a.
M431	BL	BL	BL	BL	n.a.
M432	BL	BL	BL	BL	n.a.
M433	BL	BL	BL	BL	n.a.
M434	BL	BL	BL	BL	n.a.
M435	BL	BL	BL	BL	n.a.
M436	BL	d.(*1)	BL	BL	n.a.
M437	BL	BL	BL	BL	n.a.
M438	BL	BL	BL	BL	n.a.
M439	BL	BL	BL	BL	n.a.
M440	BL	BL	BL	BL	n.a.
M441	BL	BL	BL	BL	n.a.
M442	d.(*1)	BL	BL	BL	n.a.
M443	BL	BL	BL	BL	n.a.
M444	BL	BL	BL	BL	BL

M445	BL	BL	BL	BL	BL
M446	BL	BL	BL	BL	n.a.
M447	BL	BL	BL	BL	BL
M448	BL	BL	BL	BL	BL
M449	BL	BL	BL	BL	BL
M450	BL	BL	BL	BL	BL
M451	BL	BL	BL	BL	n.a.
M452	BL	d.(*1)	BL	BL	BL
M453	BL	BL	BL	BL	BL
M454	BL	BL	BL	BL	BL
M455	BL	BL	BL	BL	n.a.
M456	BL	BL	d.(*1)	BL	BL
M457	d.(*1)	BL	BL	BL	BL
M458	d.(*1)	BL	d.(*1)	BL	BL
M459	BL	BL	BL	BL	BL
M460	d.(*1)	BL	BL	BL	BL
M461	BL	BL	BL	BL	BL
M462	BL	BL	BL	BL	n.a.
M463	BL	BL	BL	BL	BL
M464	BL	BL	BL	BL	BL
M465	BL	BL	BL	BL	BL
M466	BL	BL	BL	BL	BL
M467	BL	BL	BL	BL	BL
M468	BL	BL	BL	BL	BL
M469	BL	BL	BL	BL	BL
M470	BL	BL	BL	BL	n.a.
M471	BL	BL	BL	BL	BL
M472	BL	BL	BL	BL	BL
M473	BL	BL	BL	BL	d.(*1)
M474	BL	BL	BL	BL	BL
M475	BL	BL	BL	BL	BL
M476	BL	BL	BL	BL	BL
M477	BL	BL	BL	d.(*1)	d.(*1)
M478	BL	BL	BL	BL	n.a.
M479	BL	BL	BL	BL	n.a.
M480	BL	d.(*1)	BL	BL	n.a.
M481	BL	d.(*1)	BL	BL	n.a.
M482	BL	BL	BL	BL	d.(*1)
M483	BL	BL	BL	BL	BL
M484	BL	BL	BL	BL	d.(*1)
M485	d.(*1)	BL	BL	BL	n.a.
M486	BL	BL	BL	BL	BL
M487	BL	BL	BL	BL	BL

M488	BL	BL	BL	BL	BL
M489	BL	BL	BL	BL	n.a.
M490	BL	BL	BL	BL	BL
M491	BL	BL	BL	BL	BL
M492	BL	BL	BL	BL	BL
M494	d.(*1)	BL	d.(*1)	BL	n.a.
M495	BL	BL	BL	BL	d.(*1)
M496	BL	BL	BL	BL	BL
M497	BL	BL	BL	BL	d.(*1)
M498	BL	BL	BL	BL	BL
M499	BL	BL	BL	BL	d.(*1)
M500	BL	BL	BL	BL	n.a.
M501	BL	BL	BL	BL	BL
M502	BL	BL	BL	BL	BL
M503	BL	BL	BL	BL	BL
M504	BL	BL	BL	BL	n.a.
M505	BL	BL	BL	BL	BL
M506	BL	BL	BL	BL	BL
M507	BL	BL	BL	BL	n.a.
M508	BL	BL	d.(*1)	BL	n.a.
M509	BL	BL	BL	BL	d.(*1)
M510	BL	BL	BL	BL	BL
M511	BL	BL	BL	BL	BL
M512	BL	BL	BL	BL	BL
M513	BL	BL	BL	BL	BL
M514	BL	BL	BL	BL	n.a.
M515	BL	d.(*1)	BL	BL	n.a.
M516	BL	d.(*1)	BL	BL	n.a.
M517	BL	BL	BL	BL	n.a.
M518	BL	BL	BL	BL	BL
M519	BL	BL	BL	BL	BL
M520	BL	BL	BL	BL	BL
M521	BL	BL	BL	BL	BL
M522	BL	BL	BL	BL	BL
M523	BL	BL	BL	BL	BL
M524	BL	BL	BL	BL	n.a.
M525	BL	BL	BL	BL	n.a.
M526	BL	BL	BL	BL	n.a.
M527	BL	BL	BL	BL	BL
M528	BL	BL	BL	BL	BL
M529	BL	BL	BL	BL	BL
M530	BL	BL	BL	BL	n.a.
M531	BL	d.(*1)	BL	BL	n.a.

M532	BL	BL	BL	BL	n.a.
M533	BL	BL	BL	BL	d.(*1)
M534	BL	d.(*1)	BL	BL	n.a.
M535	BL	BL	BL	BL	BL
M536	BL	BL	BL	BL	BL
M537	BL	BL	d.(*1)	BL	n.a.
M538	BL	BL	BL	BL	n.a.
M539	BL	BL	BL	BL	d.(*1)
M540	BL	d.(*1)	BL	BL	n.a.
M541	BL	BL	BL	BL	BL
M542	BL	d.(*1)	BL	BL	BL
M543	BL	BL	BL	BL	BL
M544	BL	BL	BL	BL	BL
M545	BL	BL	BL	BL	BL
M546	BL	BL	BL	BL	BL
M547	BL	BL	BL	BL	BL
M548	BL	BL	BL	BL	BL
M549	BL	BL	BL	BL	BL
M550	BL	BL	BL	BL	BL
M551	BL	BL	BL	BL	BL
M552	BL	BL	BL	BL	n.a.
M553	BL	BL	BL	BL	BL
M554	BL	BL	BL	BL	n.a.
M555	BL	d.(*1)	BL	BL	n.a.
M556	BL	d.(*1)	BL	BL	n.a.
M557	BL	d.(*1)	BL	BL	n.a.
M558	BL	d.(*1)	BL	BL	n.a.
M559	BL	BL	BL	BL	BL
M560	BL	BL	BL	BL	BL
M561	BL	BL	BL	BL	BL
M562	BL	BL	BL	BL	BL
M563	BL	BL	BL	BL	BL
M564	BL	BL	BL	BL	n.a.
M565	BL	BL	BL	BL	BL
M566	BL	BL	BL	BL	BL
M567	BL	BL	BL	BL	BL
M568	BL	BL	BL	BL	BL
M569	BL	BL	BL	BL	BL
M570	BL	d.(*1)	BL	BL	n.a.
M571	BL	d.(*1)	BL	BL	n.a.
M572	BL	d.(*1)	BL	BL	n.a.
M573	BL	d.(*1)	BL	BL	n.a.
M574	BL	BL	BL	BL	n.a.

M575	BL	d.(*1)	BL	BL	n.a.
M576	BL	BL	BL	BL	n.a.
M577	BL	BL	BL	BL	BL
M578	BL	BL	BL	BL	BL
M579	BL	BL	BL	BL	BL
M580	BL	BL	BL	BL	BL
M581	BL	BL	BL	BL	n.a.
M582	BL	BL	BL	BL	BL
M583	BL	BL	BL	BL	BL
M584	BL	BL	BL	d.(*1)	n.a.
M585	BL	BL	BL	BL	BL
M586	BL	BL	BL	BL	d.(*1)
M587	BL	BL	BL	BL	BL
M588	BL	BL	BL	BL	BL
M589	BL	BL	BL	BL	BL
M590	BL	BL	BL	BL	BL
M591	BL	BL	BL	BL	BL
M592	BL	BL	BL	BL	BL
M593	BL	BL	BL	BL	BL
M594	BL	BL	BL	BL	BL
M595	BL	BL	BL	BL	BL
M596	BL	BL	BL	BL	BL
M597	BL	BL	BL	BL	BL
M598	BL	BL	BL	BL	BL
M599	BL	BL	BL	BL	n.a.
M600	BL	BL	BL	BL	n.a.
M601	BL	BL	BL	BL	BL
M602	BL	BL	BL	BL	BL
M603	BL	BL	BL	BL	n.a.
M605	BL	BL	BL	BL	BL
M606	BL	BL	BL	BL	BL
M607	BL	BL	BL	BL	BL
M608	BL	BL	BL	BL	BL
M609	BL	BL	BL	BL	BL
M610	BL	BL	BL	BL	BL
M611	BL	BL	BL	BL	BL
M612	BL	BL	BL	BL	BL
M613	BL	d.(*1)	BL	BL	n.a.
M614	BL	d.(*1)	BL	BL	n.a.
M615	BL	BL	BL	BL	n.a.
M616	BL	d.(*1)	BL	BL	n.a.
M617	BL	BL	BL	BL	n.a.
M618	BL	d.(*1)	BL	BL	n.a.

M619	BL	d.(*1)	BL	BL	n.a.
M620	BL	d.(*1)	BL	BL	n.a.
M621	BL	d.(*1)	BL	BL	n.a.
M622	BL	d.(*1)	BL	BL	n.a.
M623	BL	d.(*1)	BL	BL	n.a.
M624	BL	d.(*1)	BL	BL	n.a.
M625	BL	d.(*1)	BL	BL	n.a.
M626	BL	d.(*1)	BL	BL	n.a.
M627	BL	d.(*1)	BL	BL	n.a.
M628	BL	BL	BL	BL	n.a.
M629	BL	BL	BL	BL	n.a.
M630	BL	BL	BL	BL	BL
M631	BL	BL	BL	BL	BL
M632	BL	BL	BL	BL	BL
M633	BL	BL	BL	BL	BL
M634	BL	BL	BL	BL	BL
M635	BL	BL	BL	BL	BL
M636	BL	BL	BL	BL	BL
M637	BL	d.(*1)	BL	BL	n.a.
M638	BL	d.(*1)	BL	BL	n.a.
M639	BL	BL	BL	BL	BL
M640	BL	BL	BL	BL	n.a.

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 2mm x2 mm will not be selected for testing 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.

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

(HM) 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^	Pb	Hg	PBBs	PBDEs
	RL (%)					
	0.001	0.001	0.001	0.001	0.01	0.01
M014	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M018	n.a.	n.a.	1.160(*3)	n.a.	< RL	< RL
M019	< RL	n.a.	n.a.	n.a.	< RL	< RL
M026	n.a.	n.a.	n.a.	< RL	n.a.	n.a.
M029	n.a.	n.a.	n.a.	< RL	n.a.	n.a.
M030	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M037	n.a.	n.a.	0.460(*3)	n.a.	n.a.	n.a.
M038	n.a.	n.a.	1.427(*3)	n.a.	n.a.	n.a.
M041	n.a.	n.a.	n.a.	< RL	< RL	< RL
M052	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M116	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M117	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M120	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M122-1	< RL	< RL	0.007	< RL	n.a.	n.a.
M123	n.a.	n.a.	1.966(*2)	n.a.	n.a.	n.a.
M124	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M148	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M149	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M150	n.a.	n.a.	0.007	n.a.	n.a.	n.a.
M201	n.a.	n.a.	2.006(*2)	n.a.	n.a.	n.a.

M223-1	< RL	< RL	< RL	< RL	< RL	< RL
M260	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M261	n.a.	n.a.	1.981(*2)	n.a.	n.a.	n.a.
M262	n.a.	n.a.	1.031(*3)	n.a.	n.a.	n.a.
M287	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M304	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M318	n.a.	n.a.	n.a.	< RL	n.a.	n.a.
M319	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M321	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M352	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M358	n.a.	n.a.	0.034	n.a.	n.a.	n.a.
M368	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M374	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M419	n.a.	n.a.	0.005	n.a.	n.a.	n.a.
M421-1	< RL	< RL	0.006	< RL	n.a.	n.a.
M425	n.a.	n.a.	n.a.	< RL	n.a.	n.a.
M442	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M456	n.a.	n.a.	0.007	n.a.	n.a.	n.a.
M457	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M458	< RL	n.a.	0.071	n.a.	n.a.	n.a.
M460	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M473	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M477	n.a.	n.a.	n.a.	< RL	< RL	< RL
M482	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M484	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M485	< RL	n.a.	n.a.	n.a.	n.a.	n.a.
M493-1	< RL	< RL	0.002	< RL	n.a.	n.a.
M494	0.005	n.a.	1.888(*2)	n.a.	n.a.	n.a.
M495	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M497	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M499	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M508	n.a.	n.a.	1.808(*2)	n.a.	n.a.	n.a.
M509	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M533	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M537	n.a.	n.a.	1.282(*2)	n.a.	n.a.	n.a.
M539	n.a.	n.a.	n.a.	n.a.	< RL	< RL

M584	n.a.	n.a.	n.a.	< RL	n.a.	n.a.
M586	n.a.	n.a.	n.a.	n.a.	< RL	< RL
M604-1	< RL	0.025	0.002	< RL	n.a.	n.a.

Material No.	Chromium VI content for metal materials (µg/cm²) (*1) RL: 0.10 µg/cm²
M005	Negative
M032	Negative
M042	Negative
M048	Negative
M122-1	Negative
M157	Negative
M158	Negative
M159	Negative
M160	Negative
M161	Negative
M164	Negative
M165	Negative
M174	Negative
M175	Negative
M176	Negative
M177	Negative
M178	Negative
M179	Negative
M180	Negative
M181	Negative
M182	Negative
M183	Negative
M186	Negative
M192	Negative
M193	Negative
M194	Negative
M195	Negative
M197	Negative
M200	Negative
M204	Negative
M205	Negative
M219	Negative
M222	Negative
M224	Negative

M231	Negative
M237	Negative
M238	Negative
M240	Negative
M242	Negative
M245	Negative
M250	Negative
M285	Negative
M286	Negative
M296	Negative
M297	Negative
M308	Negative
M315	Negative
M328	Negative
M329	Negative
M330	Negative
M338	Negative
M351	Negative
M354	Negative
M357	Negative
M400	Negative
M401	Negative
M421-1	Negative
M436	Negative
M452	Negative
M480	Negative
M481	Negative
M493-1	Negative
M515	Negative
M516	Negative
M531	Negative
M534	Negative
M540	Negative
M555	Negative
M556	Negative
M557	Negative
M558	Negative
M570	Negative
M571	Negative
M572	Negative
M573	Negative

M575	Negative
M604-1	Negative
M613	Negative
M614	Negative
M616	Negative
M618	Negative
M619	Negative
M620	Negative
M621	Negative
M622	Negative
M623	Negative
M624	Negative
M625	Negative
M626	Negative
M627	Negative
M637	Negative
M638	Negative

Material No.	**Chromium VI content for other materials (%) RL: 0.01%**
M127	< RL
M277	< RL
M542	< RL

Abbreviation:

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

Remark:

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

	Chromium (VI) concentration	Qualitative result
Negative	<0.1μg/cm²	The sample is negative (-ve) for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating
Inconclusive	≥0.1μg/cm² and ≤0.13 μg/cm²	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 μg/cm²	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) According to EU RoHS directive 2011/65/EU based on ANNEX III 6(c) : Copper alloy containing up to 4 % lead by weight.

(*3) According to EU RoHS directive 2011/65/EU based on ANNEX III 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.

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.	(%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	M003 + M004 + M008 + M010 + M013	< RL	< RL	< RL	< RL
T002	M019 + M020 + M021 + M023 + M027	< RL	< RL	< RL	< RL
T003	M043 + M044 + M046 + M047	< RL	< RL	< RL	< RL
T005	M086 + M111	< RL	< RL	< RL	< RL
T007	M102 + M103 + M104 + M105 + M106	< RL	< RL	< RL	< RL
T008	M107 + M110 + M127 + M128 + M131	< RL	< RL	< RL	< RL
T009	M132 + M133 + M134 + M138 + M139	< RL	< RL	< RL	< RL
T010	M140 + M141 + M143 + M144 + M145	< RL	< RL	< RL	< RL
T011	M099 + M130	< RL	< RL	< RL	< RL
T012	M136 + M147 + M184 + M188 + M307	< RL	< RL	< RL	< RL
T013	M100	< RL	< RL	< RL	< RL
T014	M332 + M333 + M334	< RL	< RL	< RL	< RL
T015	M011 + M114 + M119	< RL	< RL	< RL	< RL
T016	M034 + M149 + M156	< RL	< RL	< RL	< RL
T017	M092 + M109 + M116 + M124 + M137	< RL	< RL	< RL	< RL
T018	M115 + M118 + M125	< RL	< RL	< RL	< RL
T019	M087 + M121 + M152 + M154	< RL	< RL	< RL	< RL

T020	M153 + M173 + M292 + M293 + M325	< RL	< RL	< RL	< RL
T021	M148 + M155 + M172 + M248 + M252	< RL	< RL	< RL	< RL
T022	M257 + M260 + M265 + M298 + M299	< RL	< RL	< RL	< RL
T023	M300 + M314 + M316 + M317 + M322	< RL	< RL	< RL	< RL
T024	M294 + M323 + M324 + M336	< RL	< RL	< RL	< RL
T025	M009 + M045 + M187 + M199 + M202	< RL	< RL	< RL	< RL
T027	M272 + M279 + M283 + M284 + M305	< RL	< RL	< RL	< RL
T028	M251 + M264	< RL	< RL	< RL	< RL
T029	M001 + M167 + M217 + M244	< RL	< RL	< RL	< RL
T030	M014 + M025 + M287 + M319	< RL	< RL	< RL	< RL
T031	M274 + M312 + M331 + M295	< RL	< RL	< RL	< RL
T032	M340 + M342 + M344 + M345 + M346	< RL	< RL	0.015	< RL
T034	M041 + M126 + M339	< RL	< RL	< RL	< RL
T035	M101	< RL	< RL	< RL	< RL
T036	M320 + M117 + M012	< RL	< RL	< RL	< RL
T037	M054	< RL	< RL	< RL	< RL
T038	M055	< RL	< RL	< RL	< RL
T042	M203	< RL	< RL	< RL	< RL
T044	M221	< RL	< RL	< RL	< RL
T046	M236	< RL	< RL	< RL	< RL
T047	M347	< RL	< RL	< RL	< RL
T048	M348	< RL	< RL	< RL	< RL
T049	M352	< RL	< RL	< RL	< RL
T051	M356	< RL	< RL	< RL	< RL
T052	M370 + M377*	< RL	< RL	< RL	< RL
T053	M360 + M361 + M363 + M364 + M369	< RL	< RL	< RL	< RL

T054	M359 + M362 + M371 + M372 + M373	< RL	< RL	< RL	< RL
T057	M383* + M391	< RL	< RL	< RL	< RL
T058	M392	< RL	< RL	< RL	< RL
T059	M402 + M403	< RL	< RL	< RL	< RL
T060	M404	< RL	< RL	< RL	< RL
T061	M434 + M435 + M437 + M438 + M443	< RL	< RL	< RL	< RL
T062	M444 + M446 + M447 + M448 + M449	< RL	< RL	< RL	< RL
T063	M450 + M451 + M453 + M454 + M459	< RL	< RL	< RL	< RL
T064	M460 + M461 + M462 + M463 + M464	< RL	< RL	< RL	< RL
T065	M094 + M095 + M096 + M097	< RL	< RL	< RL	< RL
T066	M355-1	< RL	< RL	< RL	< RL
T067	M466 + M467 + M468 + M469	< RL	< RL	< RL	< RL
T068	M474 + M475 + M472 + M476 + M495	< RL	< RL	< RL	< RL
T069	M471 + M473 + M482 + M492 + M497	< RL	< RL	< RL	< RL
T070	M486 + M487 + M488 + M490 + M491	< RL	< RL	< RL	< RL
T071	M501 + M502 + M503 + M505 + M506	< RL	< RL	< RL	< RL
T072	M510 + M512 + M513 + M518 + M543	< RL	< RL	< RL	< RL
T073	M509 + M511 + M519 + M520 + M496	< RL	< RL	< RL	< RL
T074	M521 + M522 + M523 + M536 + M546	< RL	< RL	< RL	< RL
T075	M547 + M548 + M549 + M550 + M551	< RL	< RL	< RL	< RL
T076	M527 + M528 + M529 + M533 + M535	< RL	< RL	< RL	< RL
T077	M541 + M542 + M545	< RL	< RL	< RL	< RL

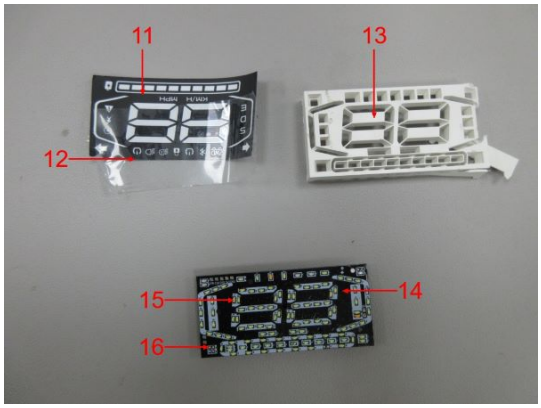
T078	M559 + M560 + M561 + M562 + M563	< RL	< RL	< RL	< RL
T079	M565 + M566 + M567 + M553	< RL	< RL	< RL	< RL
T080	M544 + M568	< RL	< RL	< RL	< RL
T081	M477 + M484 + M499 + M539	< RL	< RL	< RL	< RL
T082	M223-1	< RL	< RL	< RL	< RL
T083	M569 + M583	< RL	< RL	< RL	< RL
T084	M577 + M578 + M579 + M580	< RL	< RL	< RL	< RL
T085	M582 + M585 + M586 + M587 + M588	< RL	< RL	< RL	< RL
T086	M589 + M590 + M591	< RL	< RL	< RL	< RL
T087	M592 + M593 + M594 + M595	< RL	< RL	< RL	< RL
T088	M596 + M597 + M598	< RL	< RL	< RL	< RL
T089	M602	< RL	< RL	< RL	< RL
T090	M605	< RL	< RL	< RL	< RL
T091	M606 + M607 + M608 + M611	< RL	< RL	< RL	< RL
T092	M609 + M610	< RL	< RL	< RL	< RL
T093	M612	< RL	< RL	< RL	< RL
T094	M630	< RL	< RL	< RL	< RL
T095	M631 + M632	< RL	< RL	< RL	< RL
T096	M633	< RL	< RL	< RL	< RL
T097	M634 + M635	< RL	< RL	< RL	< RL
T098	M636	< RL	< RL	< RL	< RL
T099	M639	< RL	< RL	< RL	< RL

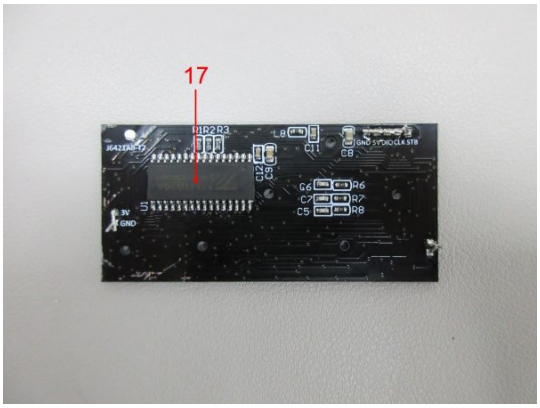
Abbreviation: BBP= Benzylbutyl phthalate
DBP= Dibutyl phthalate
DEHP= Bis(2-ethylhexyl) phthalate
DIBP= Diisobutyl phthalate
< = less than
RL = Reporting Limit
%= percentage

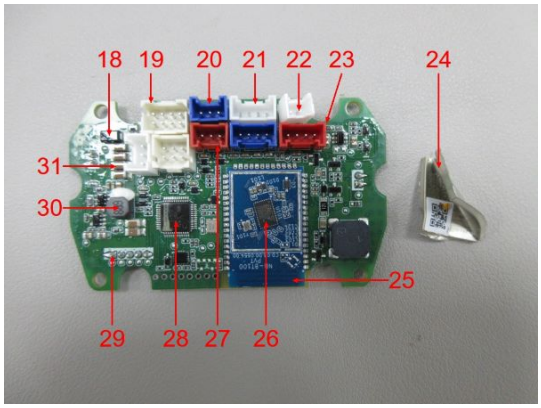
Remark:

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

Sample Photos







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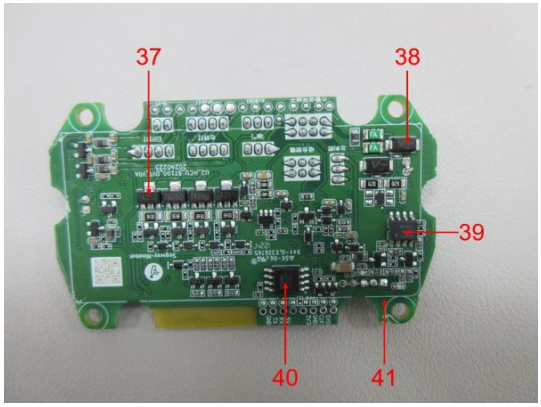

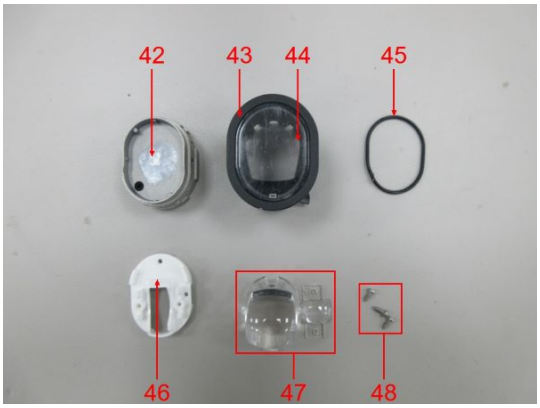

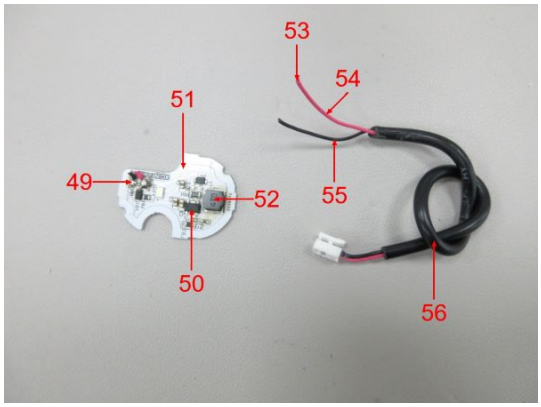

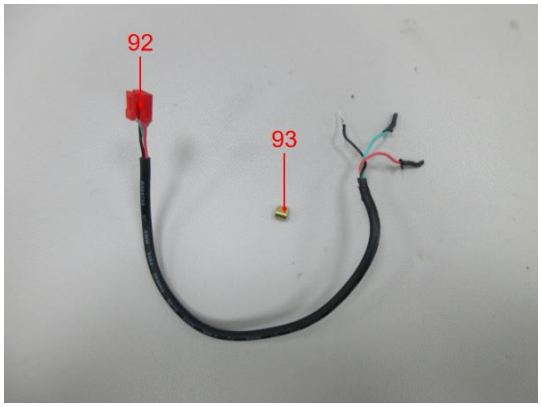

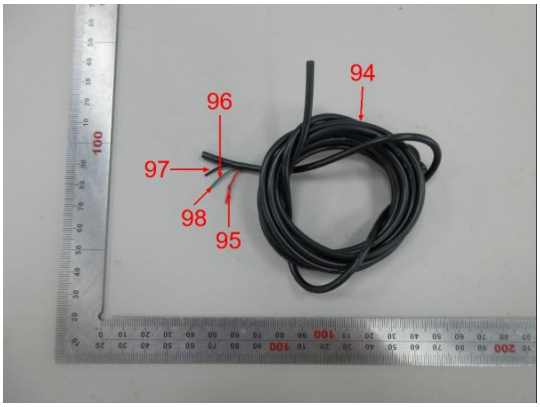

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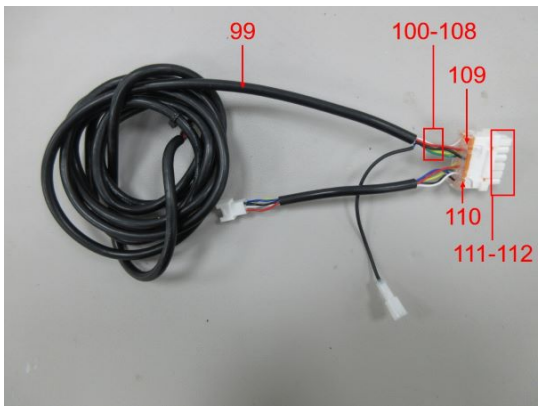

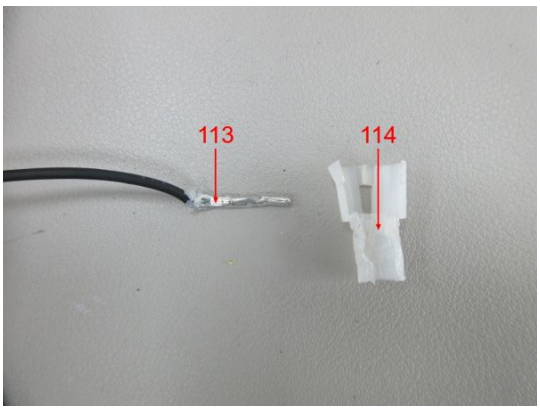

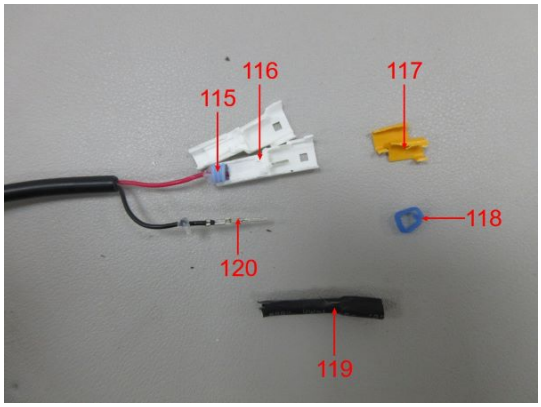

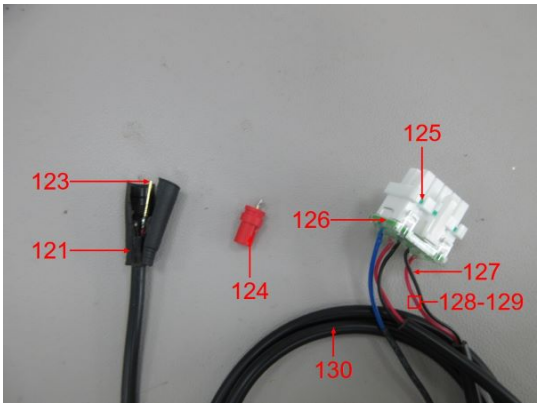

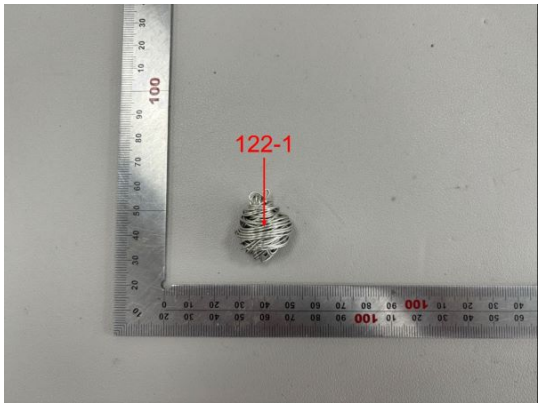

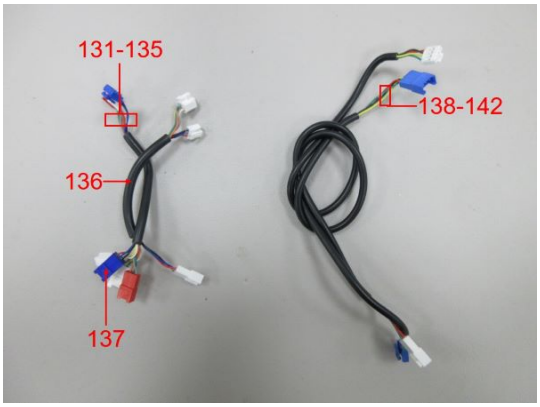

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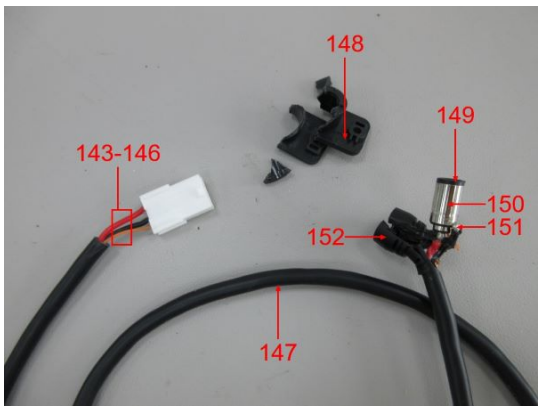

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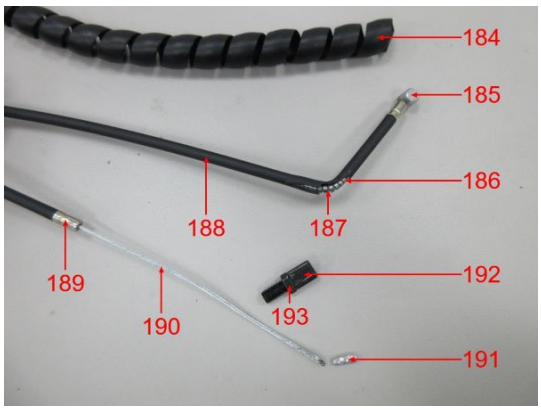

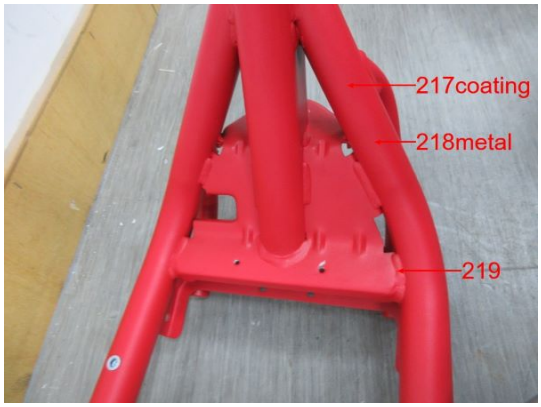

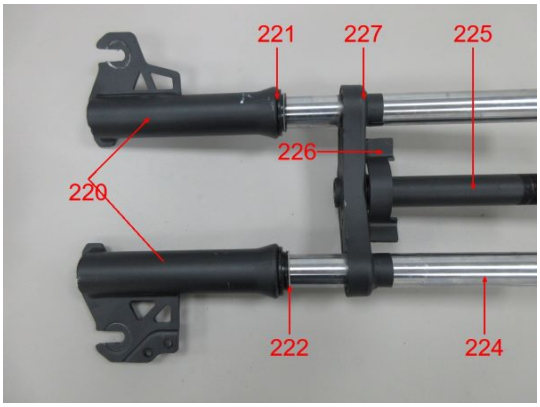

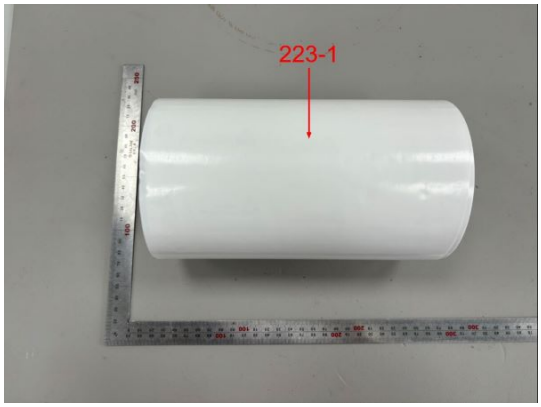

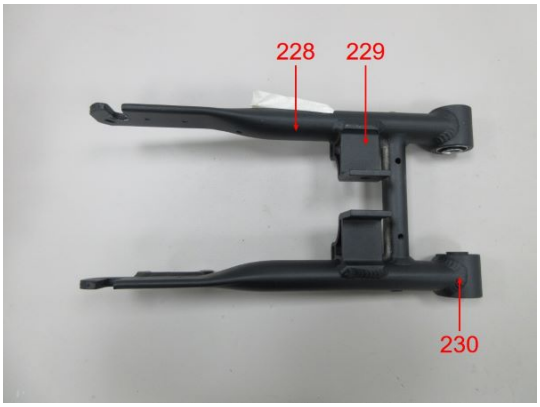

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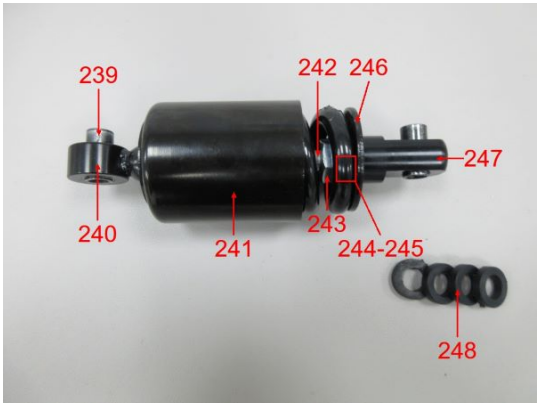

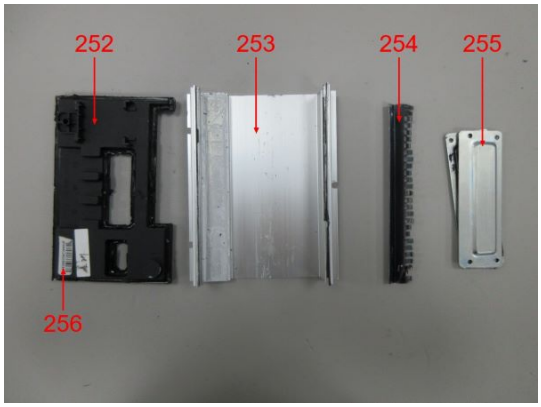

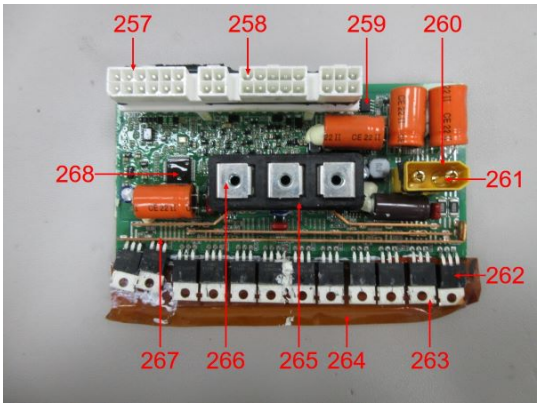

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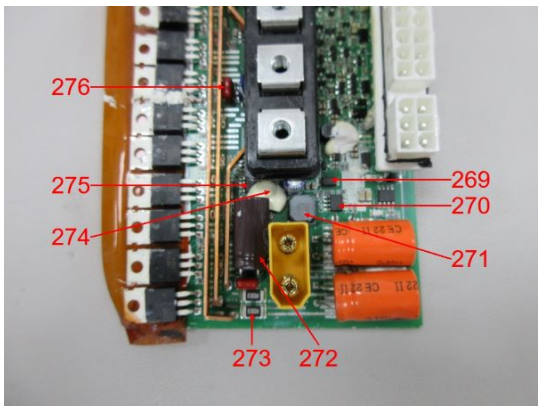

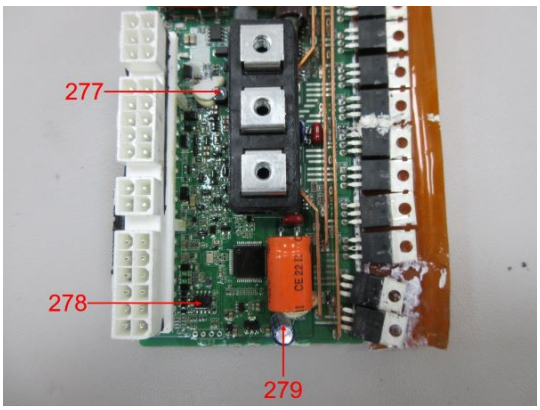

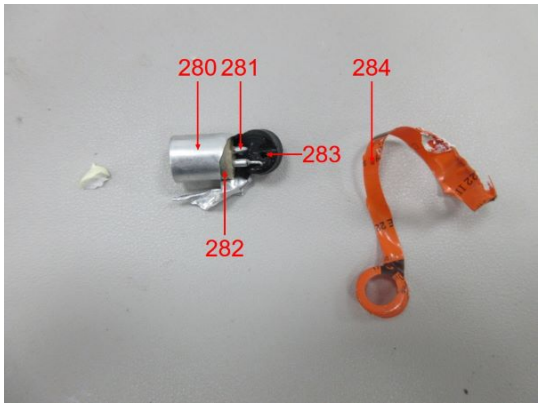

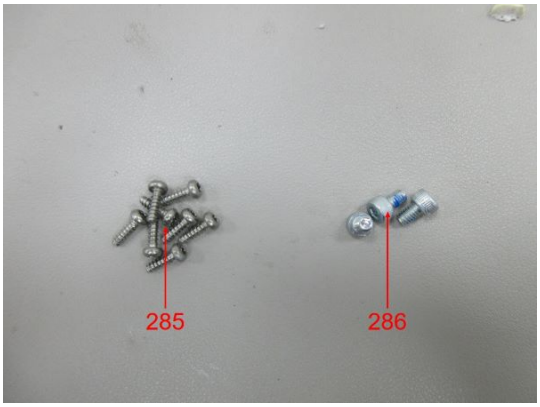

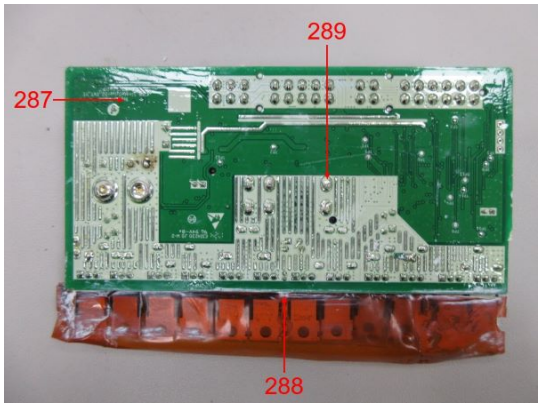

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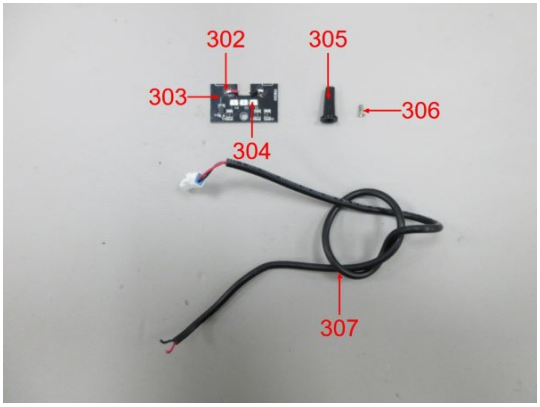

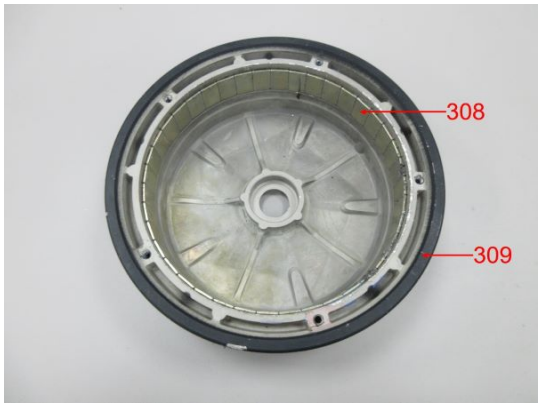

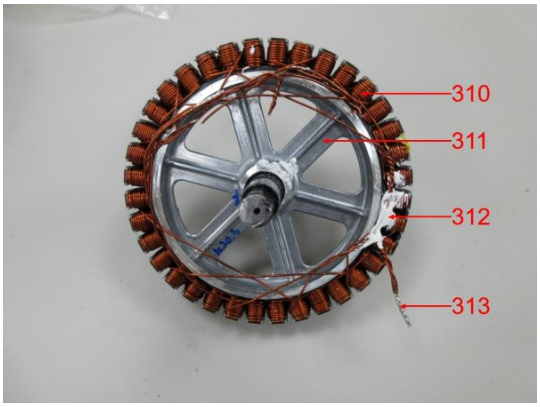

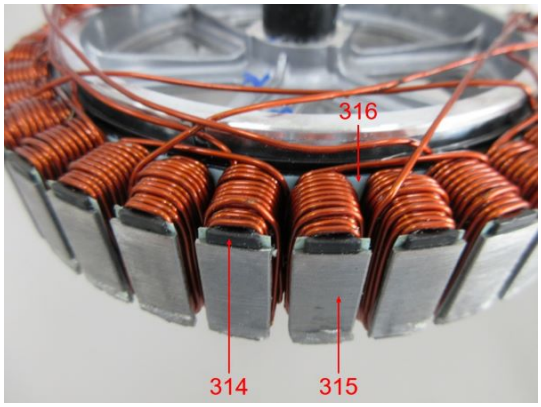

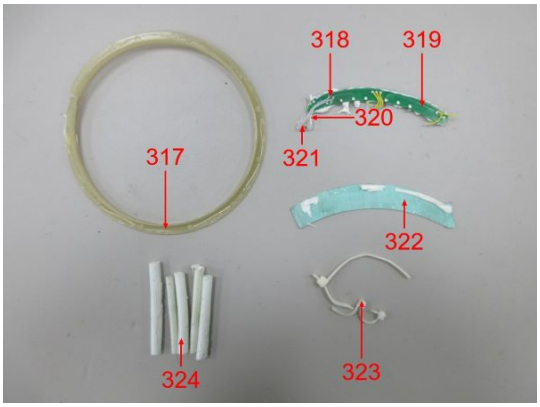

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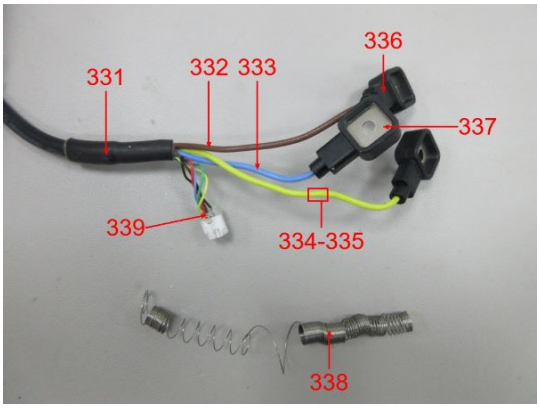

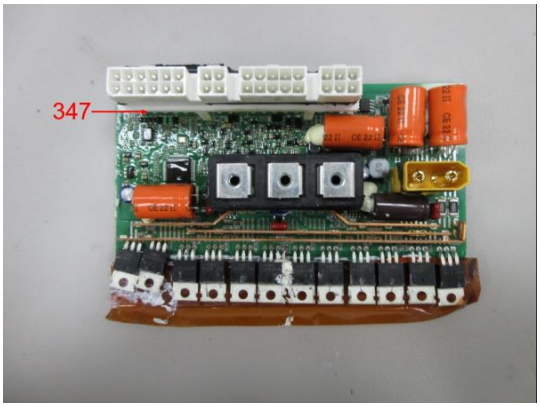

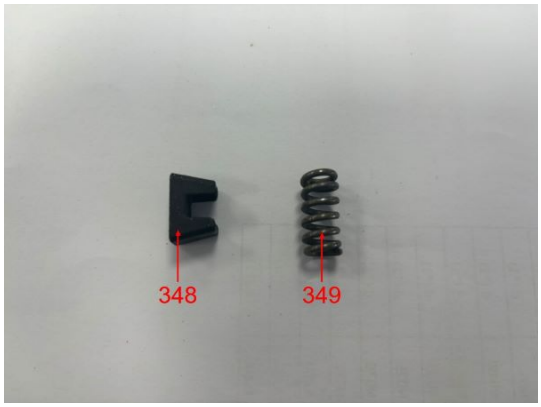

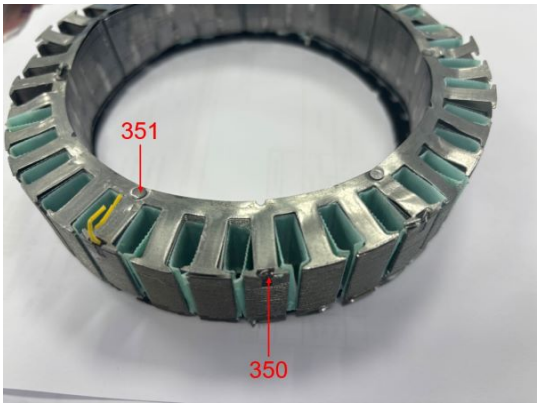

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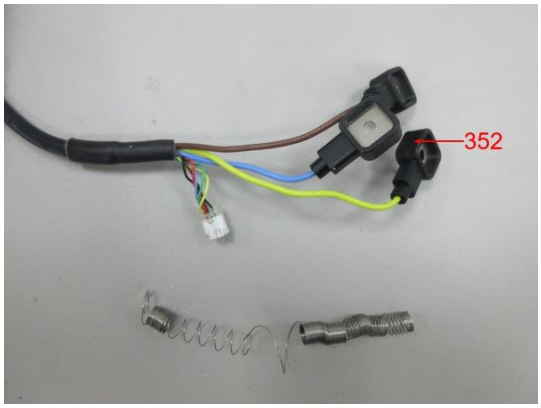

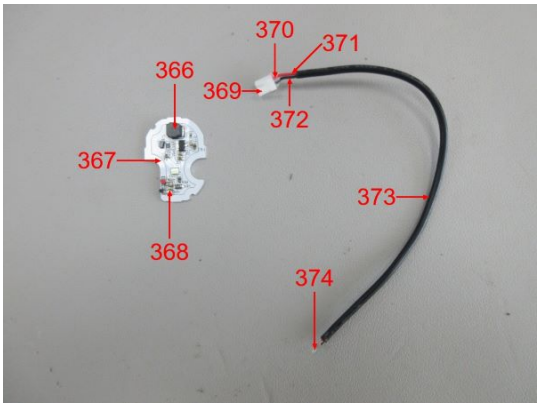

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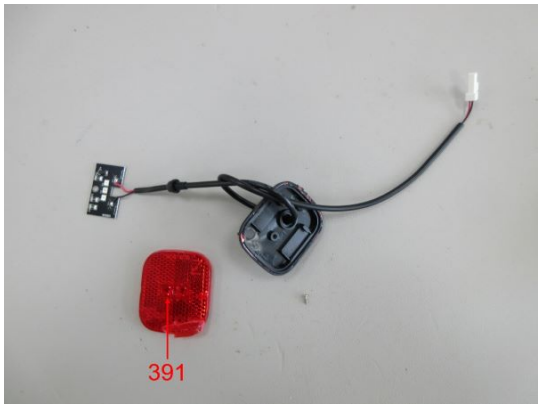

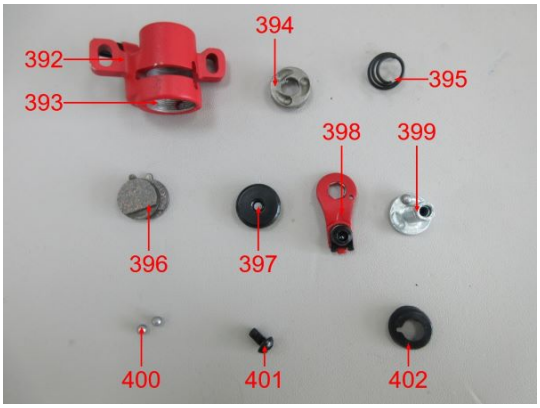

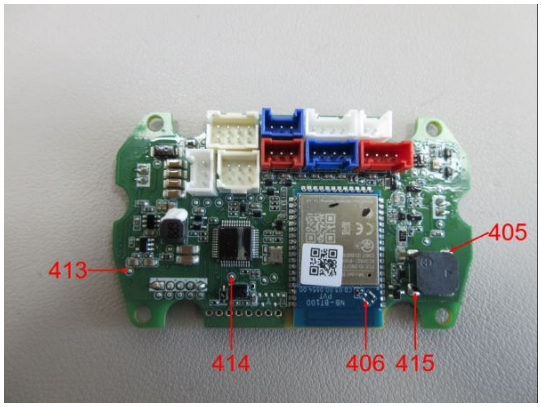

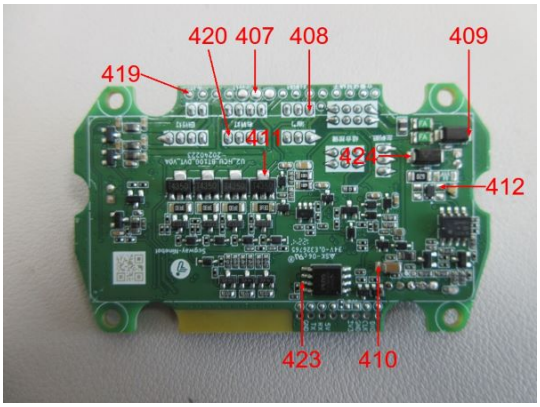

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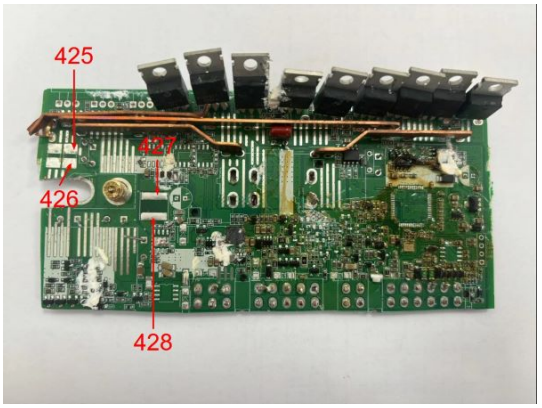

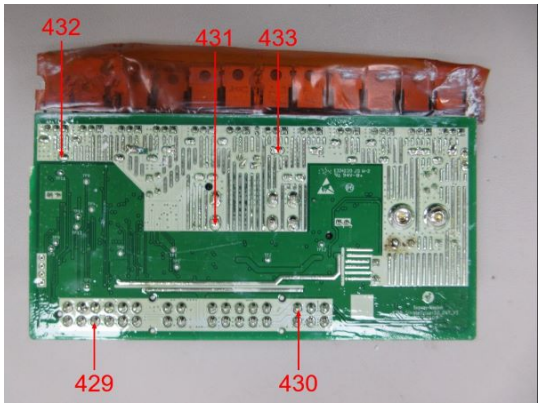

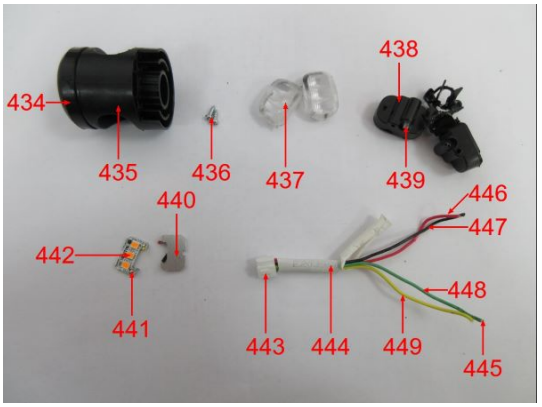

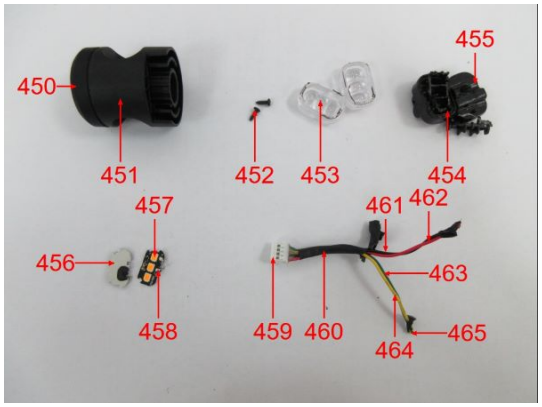

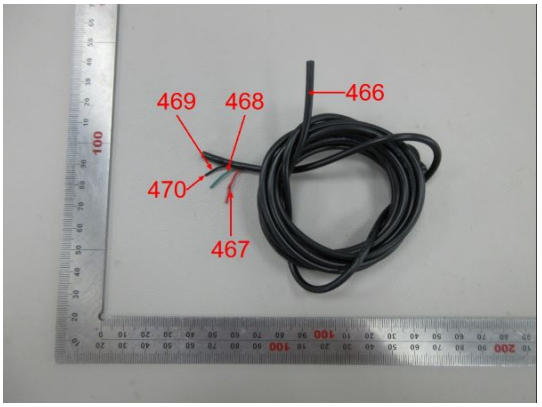

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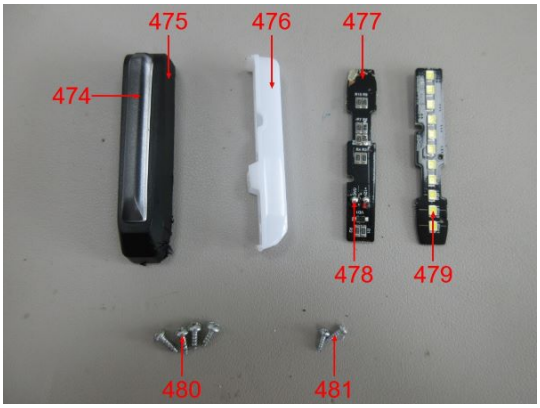

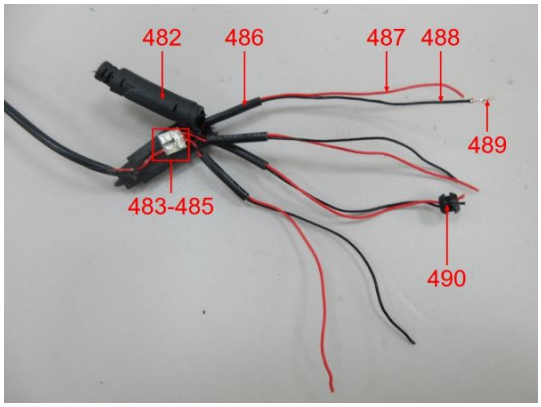

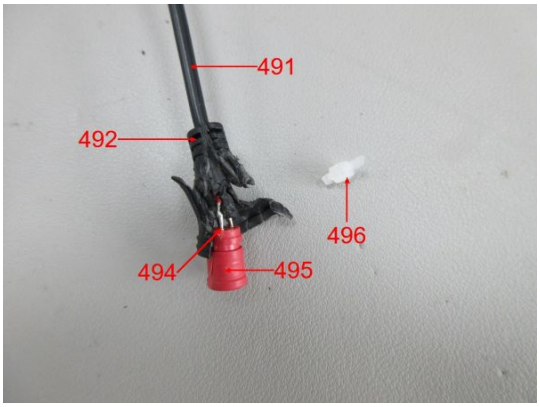

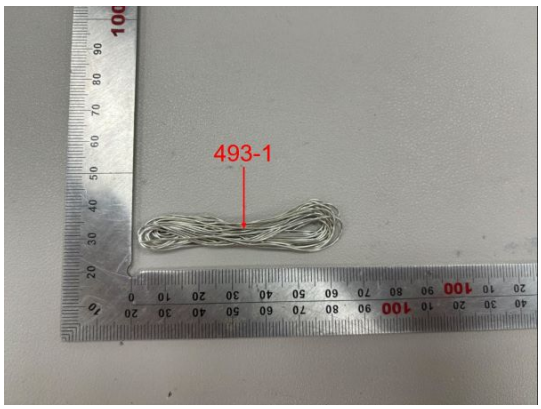

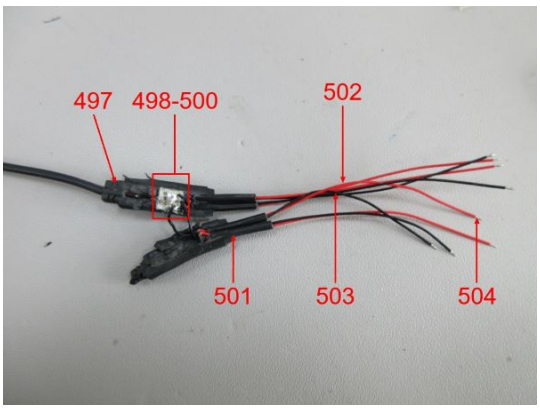

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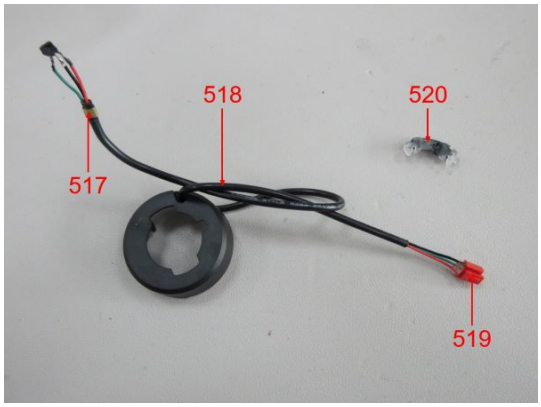

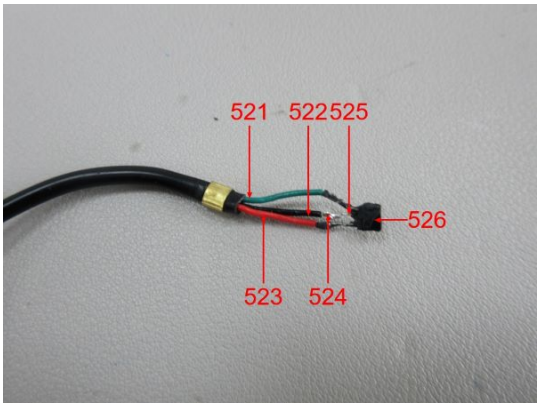

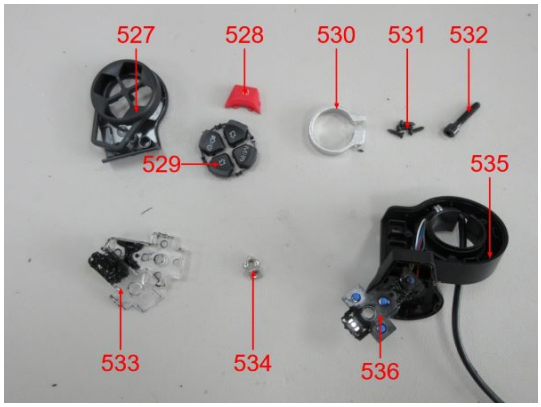

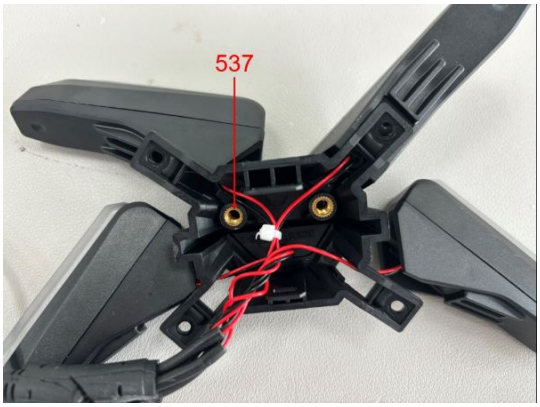

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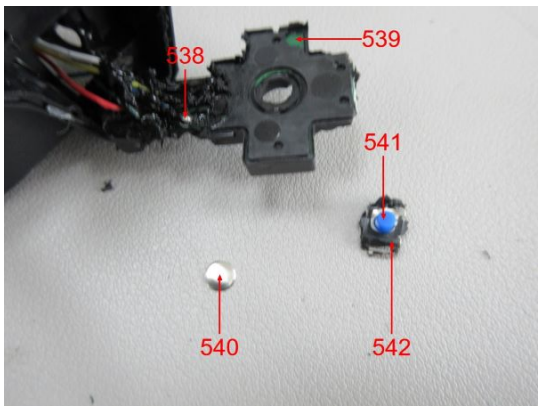

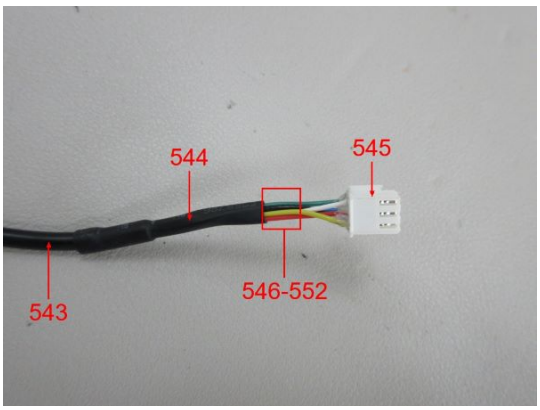

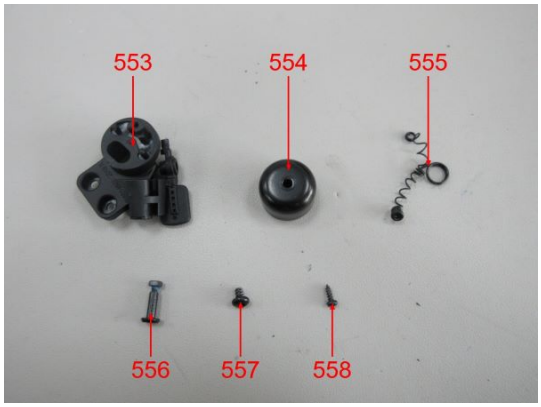

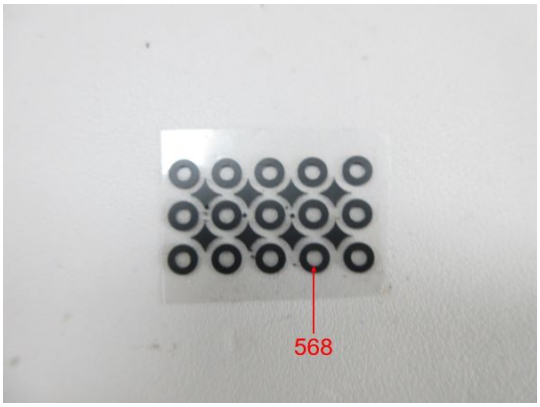

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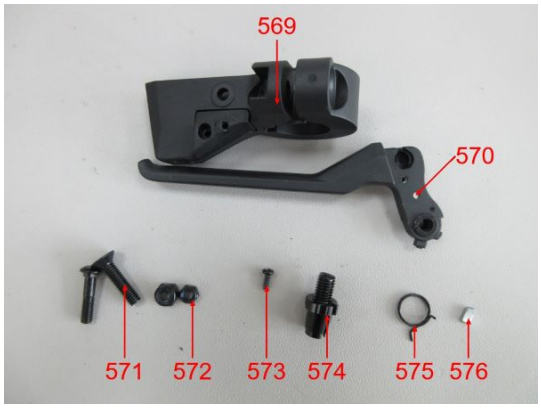

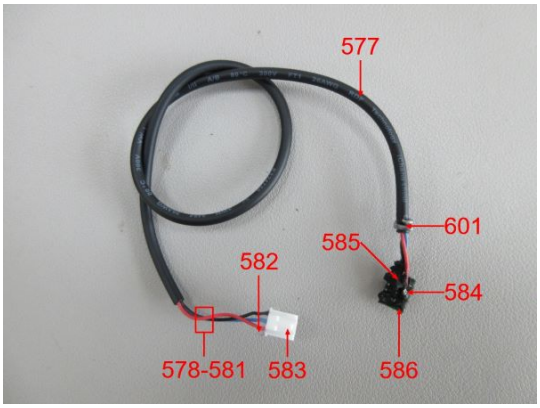

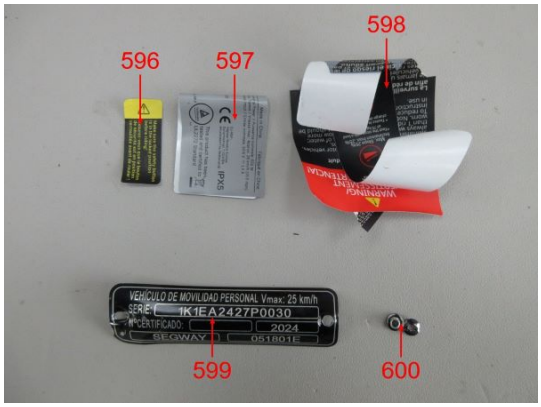

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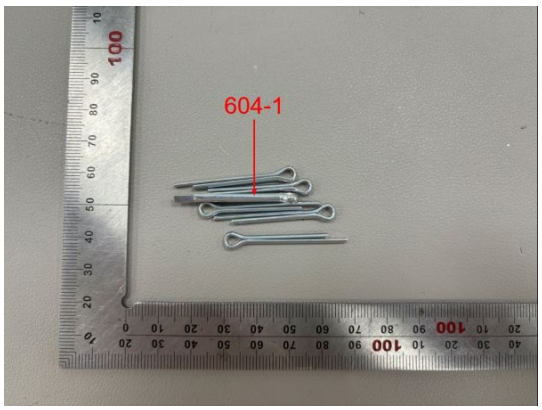

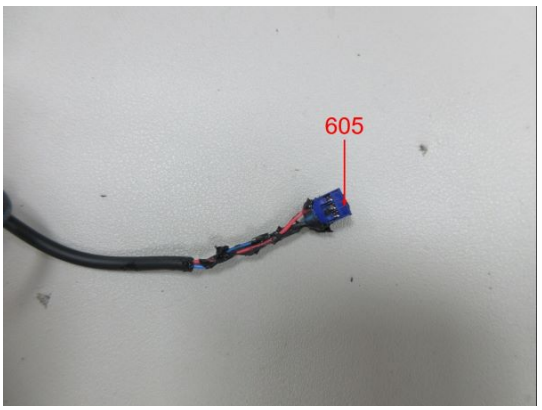

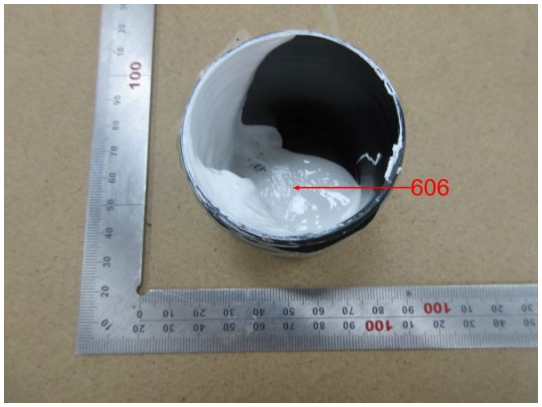

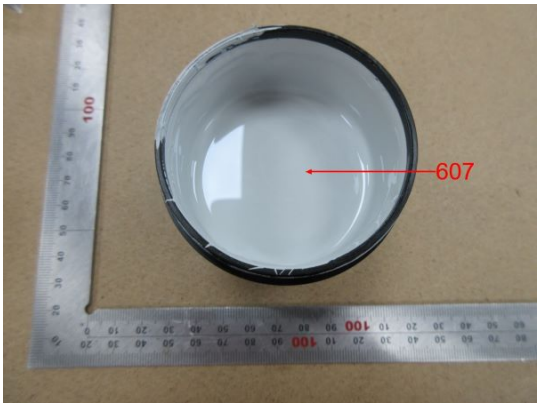

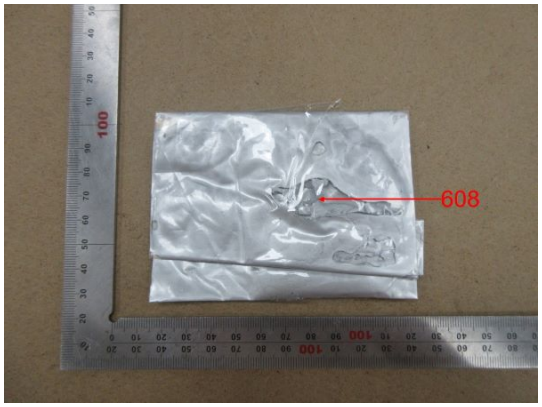

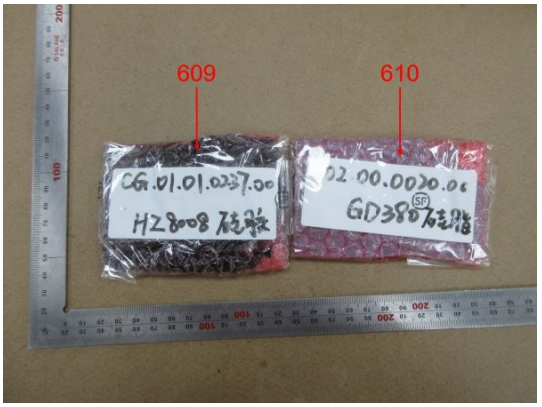

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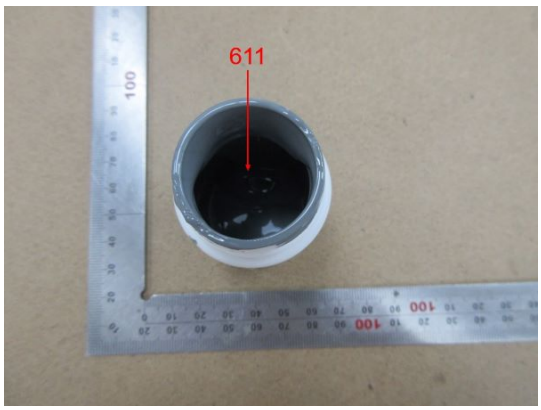

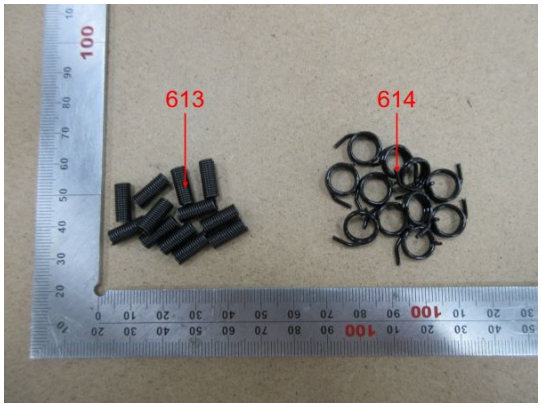

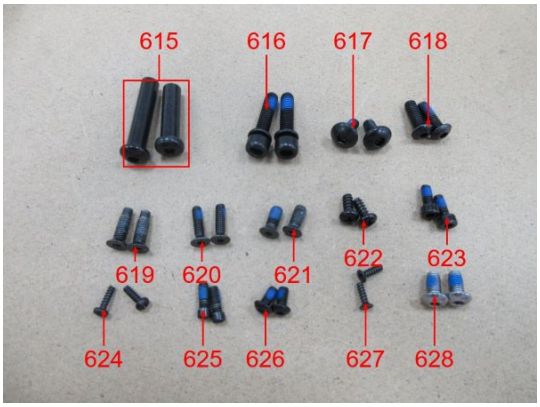

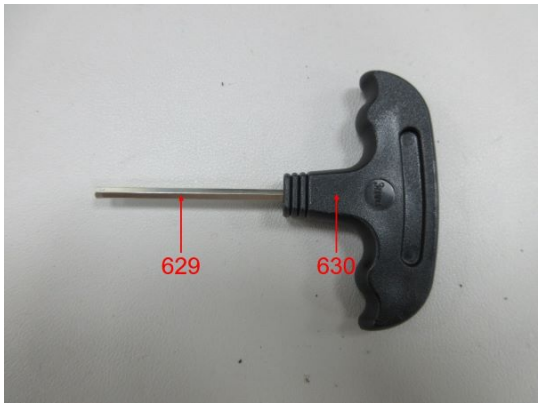

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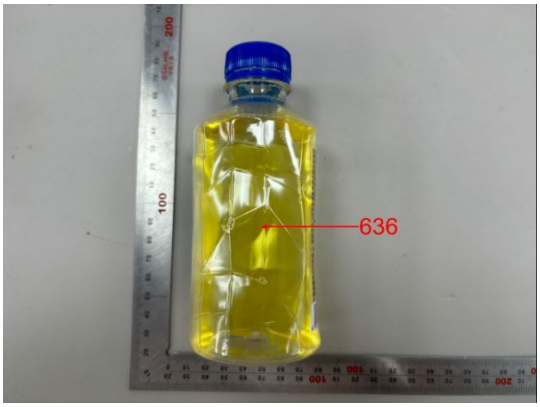

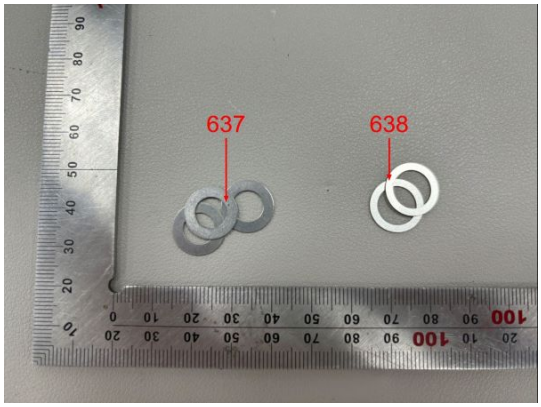

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General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. Scope

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTCB") is made between the client and one or more member entities 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.

1.2 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.

1.3 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.

1.4 In the context of an ongoing business relationship with the client, this GTCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to 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 an extension 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, organisations, 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 programmes 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 for resulting additional expenses.

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 in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/ agreements with a/more third party(ies) and establish legal relationships with that/those third party(ies) according to such contracts/agreements. 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. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services to be provided by third testing and certification bodies), TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that 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 but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client to other third testing and/or certification bodies, agency services provided by any other third agent(s), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract. If 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 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 fees payment, it may lead to adverse consequences such as failure/ suspending/cancellation/invalidity of testing and/or certification results, which shall not be borne/liable by TÜV Rheinland.

4.9 For the service content agreed in the contract, if the client requires TÜV Rheinland 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 any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance periods/dates

5.1 The contractually agreed periods/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 being 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.

5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/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 disruptions, governmental 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 resume performance.

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.

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.

6.3 The client shall bear any additional cost incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

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 costs actually incurred. 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 extends over more than one month and the value of the contract or the agreed fixed price exceeds €2.500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

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, withdraw the 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 cheques, 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 if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the 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 contractual year, the client shall not have the right to terminate the contract. 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 the 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 paid by 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 instalment. 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 fundmental 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-Audit stage, 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 compensation of 10% of the order amount 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.

9.6Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also 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, project documents, pricing and financial 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 format. Confidential information is expressly 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 is entitled to store, use, further develop and pass on 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 hereunder towards such information. The client shall avoid using any third party platform and/or 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. If the client suffers from any losses or damages due to any theft or leakages to be caused by the adoption of any unauthorized confidential information 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 this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is 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 relevant direct and/or indirect exposed purchasers, vehicle 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;

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.

10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party undertakes to oblige these employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.5 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of this confidentiality clause by the receiving party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute confidential information as defined in this confidentiality clause.

10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and/or (ii) on request by the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest 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, TÜV Rheinland is entitled to make file 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 documentation 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 etc. prepared by 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-sublicensable 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/opinions, 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 GTCB 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 regulaed in clause 11.2, and any quotaion 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 at his own expense and, as far as possible, to withdraw publications.

11.7 The consent 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 charged on a time and material basis, 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 of 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 vicarious agents. 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 breach of a material contractual 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 article 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 person'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 legislations or embargos 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 incured 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 related parties (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 that 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 reason for deletion arises. 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 to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. 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 Charges apply if the 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 must be made available to TÜV Rheinland 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 pecuniary damage resulting from the respective testing and certification that is brought forward 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 meet the applicable legal requirements for EU/EC 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 are borne by the client. TÜV Rheinland will be liable for the loss of test samples 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 GTCB, 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, for good cause and independently of the continuation of the remaining services with 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 a loss or a suspension of its 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 due 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 surveillance audits;

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) a substantial deterioration of the financial circumstances of the client occurs 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) in the event of any serious misrepresentation, be it by 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 or entitled to continue or finalize the performance of the service, e.g. in case of force majeure, 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 coverage applicable to 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 shall be 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. The client reserves the right to prove that there is no damage or a considerably lower damage, TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.

16.4 TÜV Rheinland is also 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 have been avoided or 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 this 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 restriction, 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 breakdown of transport, telecommunication, 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 successfully 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. If notice thereof is not given without delay, the relief is effective from the time at which 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 invoked impedes performance by the affected Party. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that 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 the 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 Unless otherwise stipulated in 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 friendly through negotiations.

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:

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) to be settled by arbitration under the Arbitration Rules of CIETAC in force when 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 settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

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.