

Test Report No.: 68.300.25.9156.01

Dated: 2025-12-16



Applicant : Shenzhen Huatuomingtong Technology Co., Ltd.
7/F,Building 3, Zhouteng industrial park, Nanwan
Subdistrict,Longgang District, Shenzhen, Guangdong P.R.
China

Sample Description : Bicycles with electric drive pedelec

Style No. / Model No. / Design No. : V8,V8Max,V8Pro,V8Pro Max,V8Ultra,V8Ultra Max,V8Ultra
mini,H9,C63,C63mini,GT20,GT30,GT50,GT60,GT2000,V2
,V3,V9,V10,V11,X8,X9,X10,C90,C80,C80mini,C90mini,H9
mini,Q8,Q9,Q11,Q12 , S73,S73-S,GT24,GT16,
D10,V20Ultra,V20Ultra Max

Supplier/Manufacturer : Huizhou Huasheng Vehicle Industry Co., Ltd.

Test Sample Receipt Date, Location : 2025-11-25, Shenzhen

Test Period, Location : From 2025-11-25 to 2025-12-09, Shenzhen

Test Result(s) : Refer to Section 3

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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
	Test with reference to Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU and its amendment Directive (EU) 2015/863	
1.	Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine	Report as is
2.	Heavy Metals Content Test (Total Cadmium, Total Lead, Total Mercury, Hexavalent Chromium)	Pass
3.	Brominated Flame Retardants (PBBs & PBDEs)	Pass
4.	Phthalates (DEHP, BBP, DBP and DIBP)	Pass

Remarks:

(1) The results relate only to the items tested.

(2) Samples are tested as received.

(3) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

(4) The test parts were selected by the client.

TUV SUD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TUV SUD Group

Prepared by:

Reviewed by:



Hailey Tan
Project Engineer

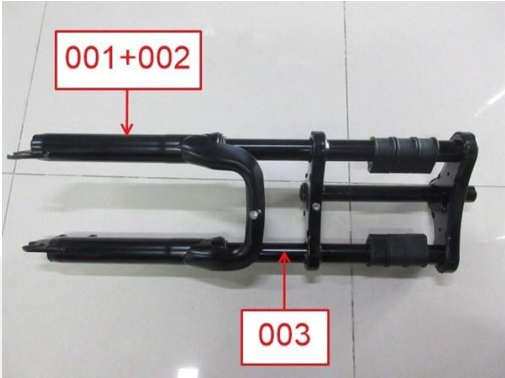
Angelina Wang
Supervisor

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

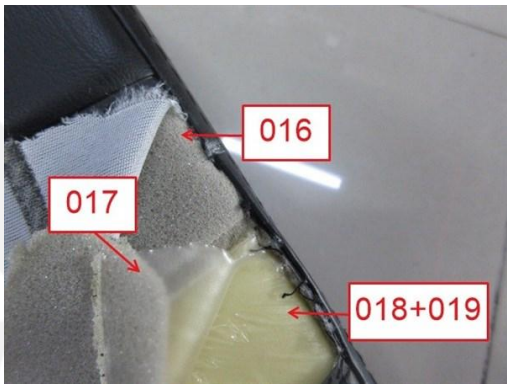
1. Description of the Test Sample:

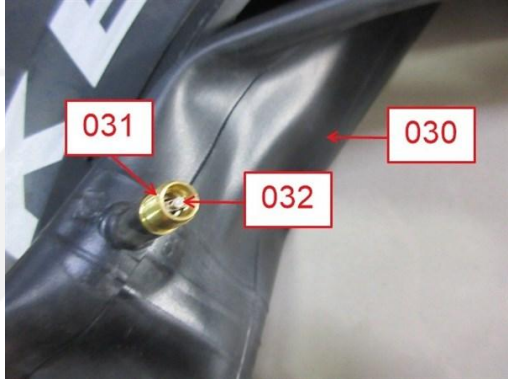
Sample Description	Bicycles with electric drive pedelec
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2. List of Materials as identified by the Laboratory:

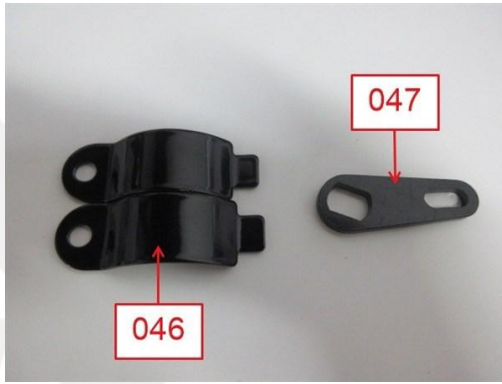
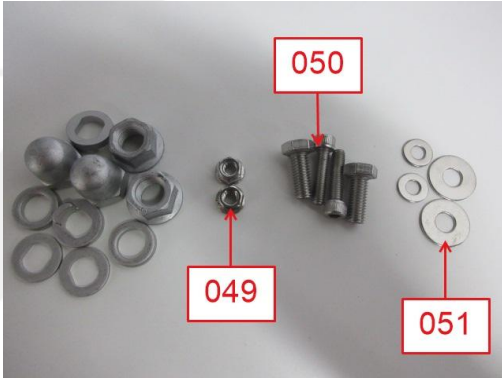
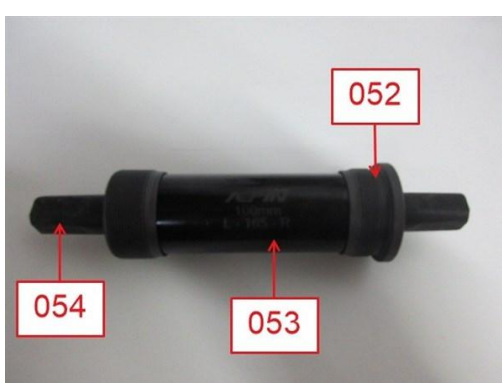
T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black coating on surface	
T2	002	Silvery metal (Substrate)	
T3	003	Silvery metal (Substrate, Tube)	
T4	004	Silvery metal (Screw)	
T5	005	Black soft plastic (Part)	
T6	006	Silvery metal (Spring)	

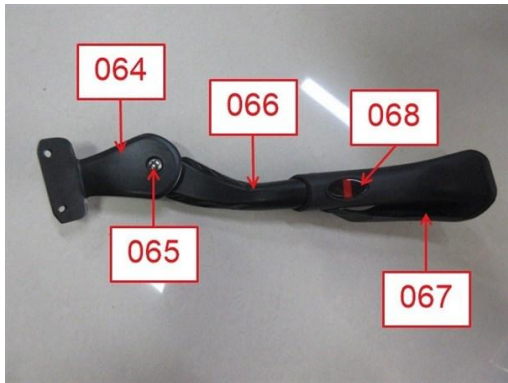
T. No.	Sample No.	Colour and Description	Photograph
T7	007	Black soft plastic (On Tube)	
T8	008	Black soft plastic (Cap)	
T9	009	Black/ orange/ white coating on surface	
T10	010	Silvery metal (Substrate)	
T11	011	Black coating on surface	
T12	012	Silvery metal (Substrate)	
T13	013	Black plastic (Cap)	

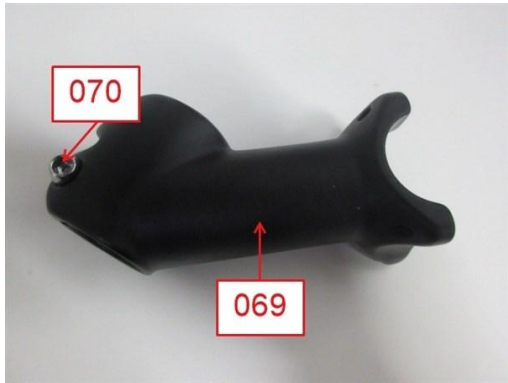
T. No.	Sample No.	Colour and Description	Photograph
T14	014	Black synthetic leather with white backing	
T15	015	Black soft plastic	
T16	016	Grey foam	
T17	017	Transparent plastic (Thick film)	
T18	018	Transparent plastic (Thin film)	
T19	019	Yellow foam	
T20	020	Black plastic (Back)	
T21	022	Black elastic strap	
T22	023	Black coating on surface	
T23	024	Silvery metal (Substrate)	

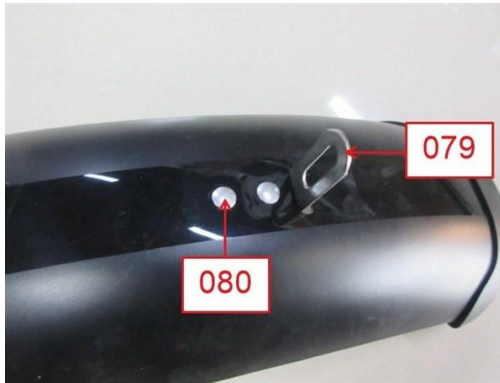
T. No.	Sample No.	Colour and Description	Photograph
T24	025	Silvery metal (Axle)	
T25	026	Silvery metal (Nut)	
T26	027	Black soft plastic	
T27	028	Silvery metal (Outer ring)	
T28	029	Black soft plastic with white printing (Wheel)	
T29	030	Black soft plastic (Tyre)	
T30	031	Golden metal (Air nozzle)	
T31	032	Silvery metal (Inner, air nozzle)	
T32	033	Black coating on surface	
T33	034	Silvery metal (Substrate, pedal)	

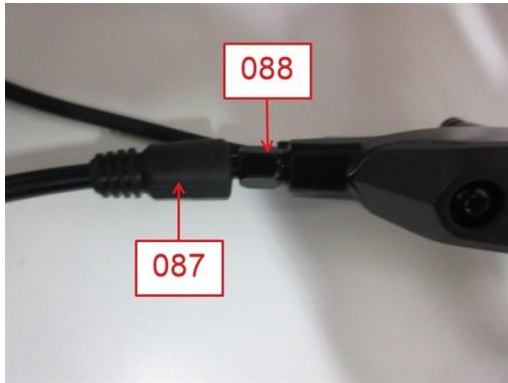
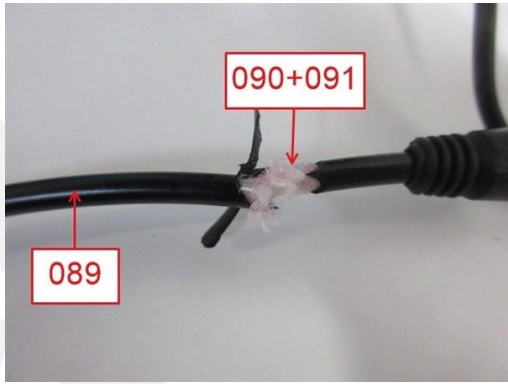
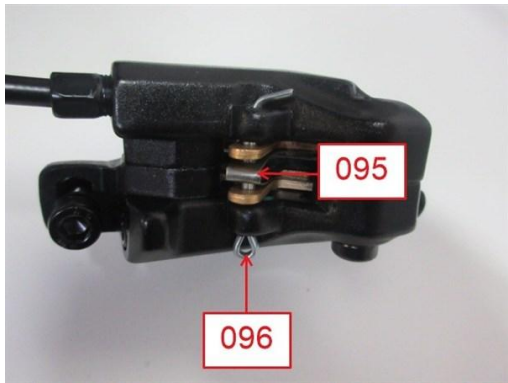
T. No.	Sample No.	Colour and Description	Photograph
T34	035	Black plastic (Cap)	
T35	036	Black plastic (Shell)	
T36	037	White plastic (Reflector)	
T37	038	Translucent orange plastic (Reflector)	
T38	039	Black plastic (Front reflector base)	
T39	040	Translucent plastic (Front reflector)	
T40	041	Black plated metal (Screw)	

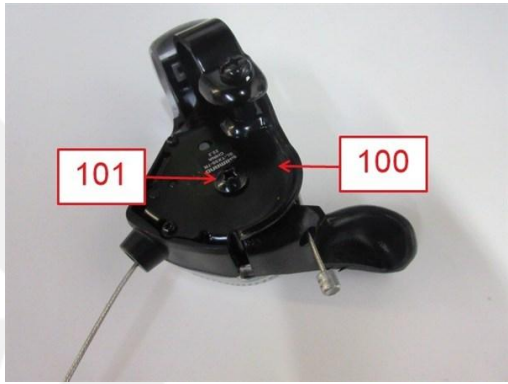
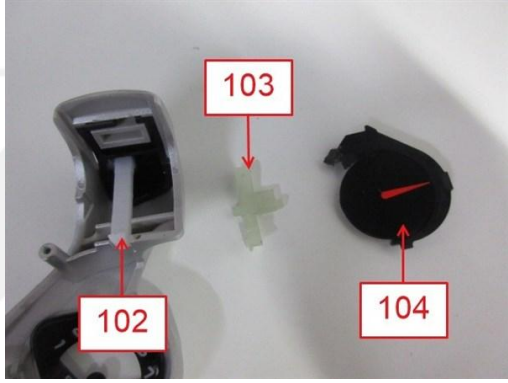
T. No.	Sample No.	Colour and Description	Photograph
T41	042	Black plastic	
T42	043	Black soft plastic	
T43	044	Black soft plastic	
T44	045	Black plastic	
T45	046	Black surfaced metal	
T46	047	Black surfaced metal	
T47	049	Silvery metal (Nut)	
T48	050	Silvery metal (Screw)	
T49	051	Silvery metal (Washer)	
T50	052	Black surfaced metal	
T51	053	Black surfaced metal (Tube)	
T52	054	Black surfaced metal (Axle)	

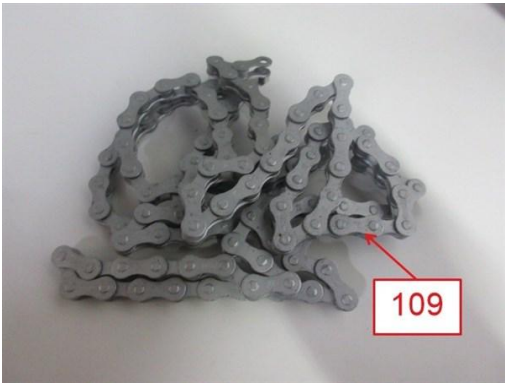
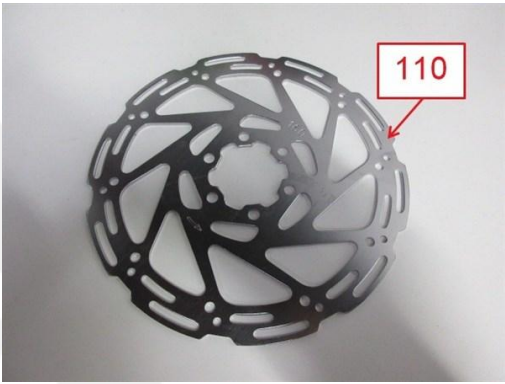
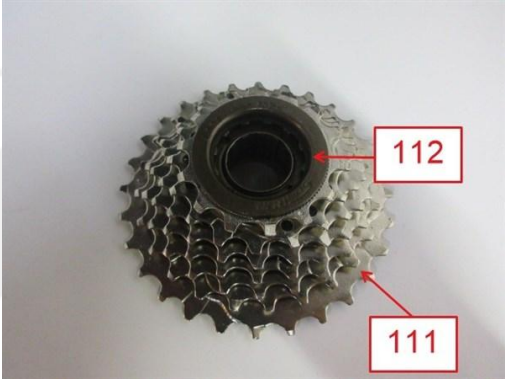
T. No.	Sample No.	Colour and Description	Photograph
T53	055	Silvery metal (Substrate, spring)	
T54	056	Silvery metal (Rod)	
T55	057	Black soft plastic (Part)	
T56	059	Multi-colored plated metal (Ring)	
T57	060	Red plated metal (Shell)	
T58	061	Black plastic (Cap)	
T59	062	Red plated black plastic (Nut)	
T60	063	Silvery metal (Screw)	
T61	064	Silvery metal (Substrate, stand holder)	
T62	065	Silvery metal rivet (On stand holder)	
T63	066	Silvery metal (Substrate, stand)	
T64	067	Black plastic (Stand)	
T65	068	Transparent adhesive soft plastic with black/ red printing	

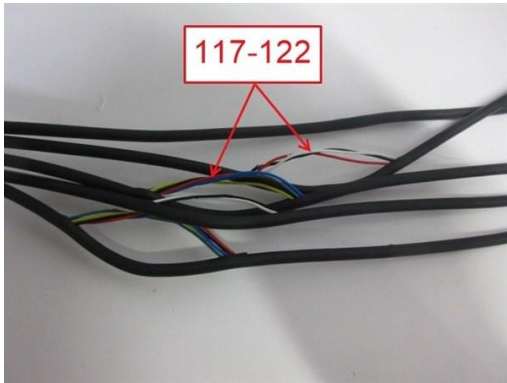
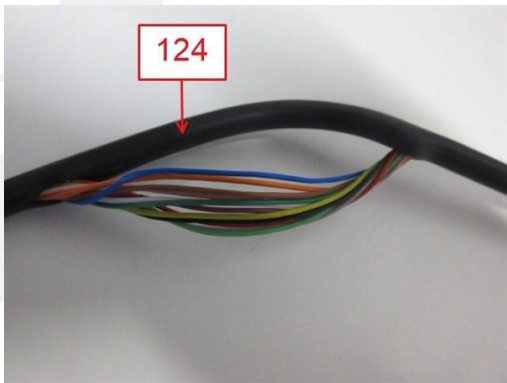
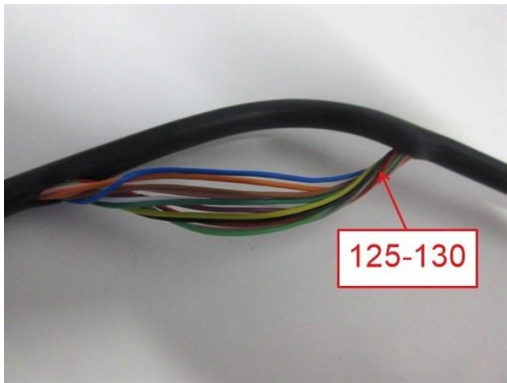
T. No.	Sample No.	Colour and Description	Photograph
T66	069	Black plated metal (Holder)	
T67	070	Silvery metal (Screw)	
T68	071	Black plastic (Ring)	
T69	072	Black plated metal (Ring)	
T70	073	Black plated metal (Ring)	
T71	074	Black plated metal (Ring)	
T72	075	Silvery metal (Ring)	
T73	076	Black plated metal (Part)	
T74	077	Black plastic (Splash guard)	
T75	078	Black plastic (Shell)	

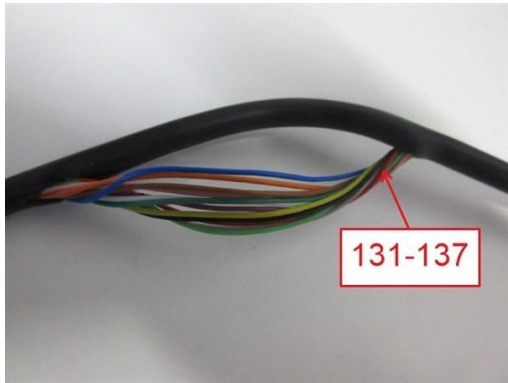
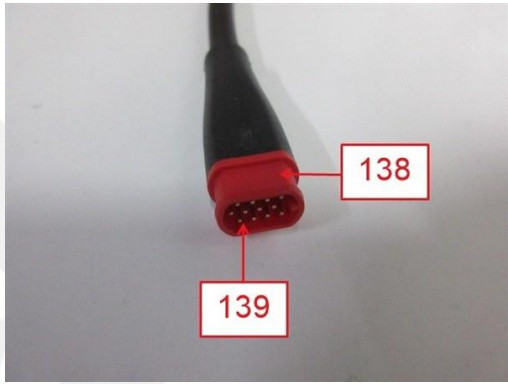
T. No.	Sample No.	Colour and Description	Photograph
T76	079	Silvery metal (Sheet)	
T77	080	Silvery metal (Rivet)	
T78	081	Black surfaced metal (Brake lever)	
T79	082	Black plated metal bolt (On brake lever holder)	
T80	083	Black plated metal screw (On brake lever holder)	
T81	084	Black plastic with silvery printing (Brake lever holder)	
T82	085	Clear laminated white paper with yellow/ black printing (Warning label)	
T83	086	Silvery metal (Rod)	

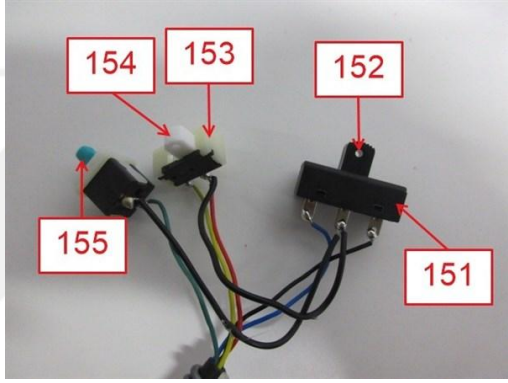
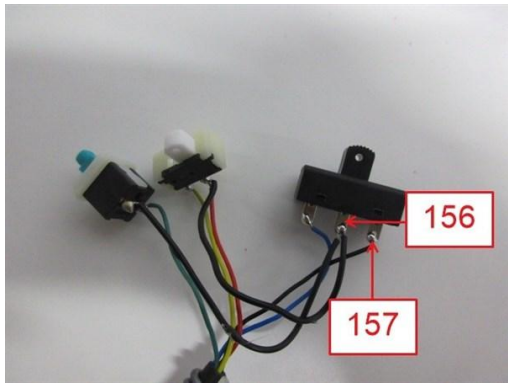
T. No.	Sample No.	Colour and Description	Photograph
T84	087	Black soft plastic (Cover, on brake lever)	
T85	088	Black surfaced metal (Lock nut, on brake lever)	
T86	089	Black plastic (Cable jacket)	
T87	090	White fabric (Cover, in cable jacket)	
T88	091	White plastic (Tube)	
T89	092	Silvery metal (Substrate)	
T90	093	Black plastic (Sheet)	
T91	094	Coppery metal (Plate)	
T92	095	Silvery metal (Sheet)	
T93	096	Silvery metal (Pin)	

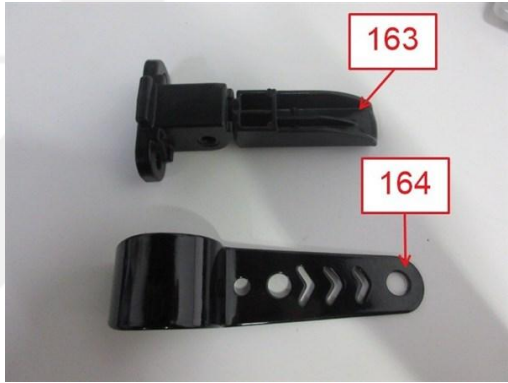
T. No.	Sample No.	Colour and Description	Photograph
T94	097	Black plastic (Speed changer)	
T95	098	Silvery plated plastic with black printing (Speed changer)	
T96	099	Transparent plastic with black/ white printing	
T97	100	Silvery metal (Substrate, plate)	
T98	101	Black plated metal (Screw)	
T99	102	White plastic	
T100	103	Beige plastic	
T101	104	Transparent plastic with black/ red printing	
T102	105	Black plastic (Gear)	
T103	106	Silvery metal (Spring)	
T104	107	Silvery metal (Knob)	
T105	108	Silvery metal (Wire)	

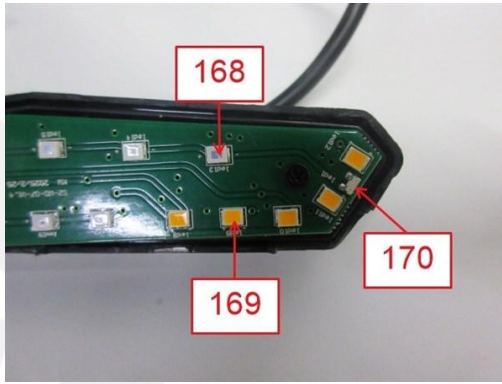
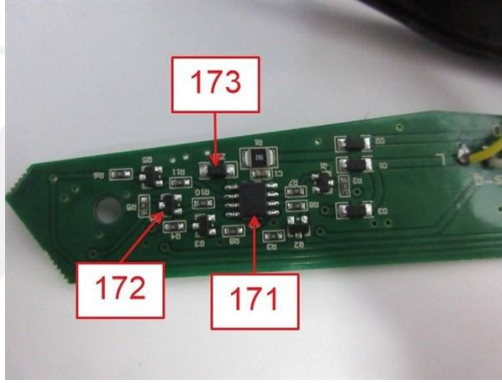
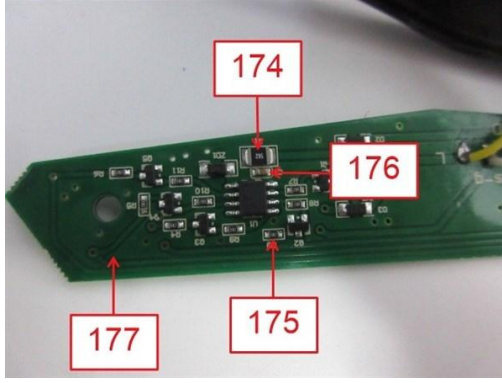
T. No.	Sample No.	Colour and Description	Photograph
T106	109	Silvery metal (Chain)	
T107	110	Silvery metal (Chain disc)	
T108	111	Silvery metal (Freewheel)	
T109	112	Bronze metal (Holde, freewheel)	
T110	113	Black plastic (Plug)	
T111	114	Red plastic (Plug)	
T112	115	Orange plastic (Plug)	
T113	116	Green plastic (Plug)	

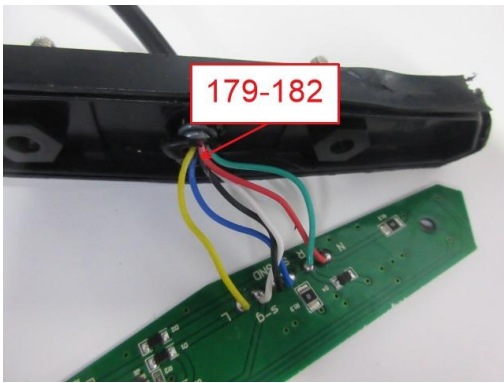
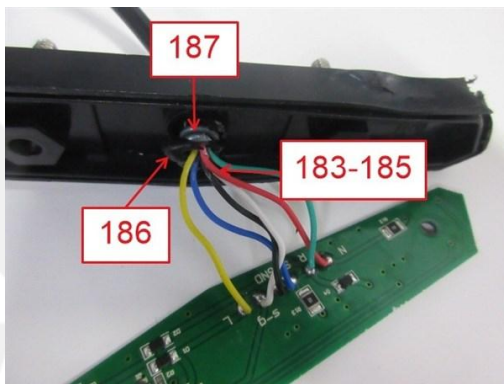
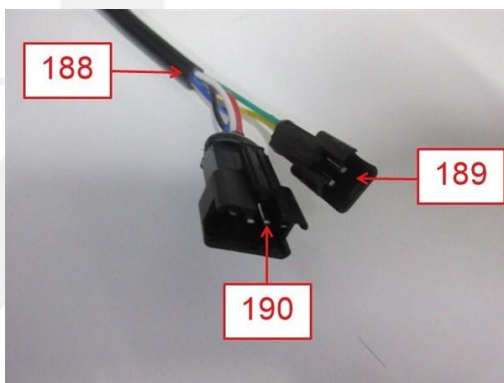
T. No.	Sample No.	Colour and Description	Photograph
T114	117	Black soft plastic (Wire jacket)	
T115	118	Black soft plastic (Wire jacket)	
T116	119	Red soft plastic (Wire jacket)	
T117	120	Green soft plastic (Wire jacket)	
T118	121	Yellow soft plastic (Wire jacket)	
T119	122	Blue soft plastic (Wire jacket)	
T120	123	Black plastic (Plug)	
T121	124	Black soft plastic (Wire jacket)	
T122	125	Pink soft plastic (Wire jacket)	
T123	126	Purple soft plastic (Wire jacket)	
T124	127	Brown soft plastic (Wire jacket)	
T125	128	Orange soft plastic (Wire jacket)	
T126	129	Grey soft plastic (Wire jacket)	
T127	130	Blue soft plastic (Wire jacket)	

T. No.	Sample No.	Colour and Description	Photograph
T128	131	Green soft plastic (Wire jacket)	
T129	132	White soft plastic (Wire jacket)	
T130	133	Yellow soft plastic (Wire jacket)	
T131	134	Black soft plastic (Wire jacket)	
T132	135	Light green soft plastic (Wire jacket)	
T133	136	Red soft plastic (Wire jacket)	
T134	137	Silvery metal (Wire)	
T135	138	Red plastic (Plug)	
T136	139	Golden metal (Pin)	
T137	140	Black plated metal (Screw)	
T138	141	Silvery metal (Screw)	
T139	142	Black plastic (Shell)	
T140	143	Grey plastic (Part)	
T141	144	Silvery metal (Rivet)	
T142	145	Black plastic (Plate)	
T143	146	Silvery metal (Shell)	
T144	147	Black surfaced metal (Spring)	

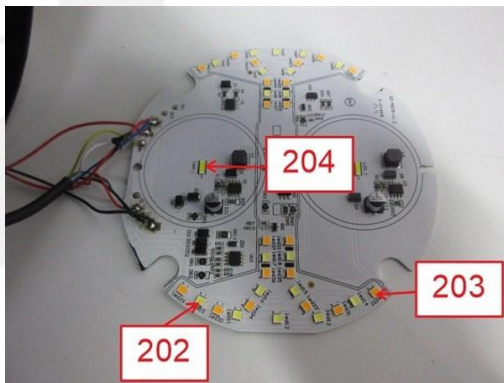
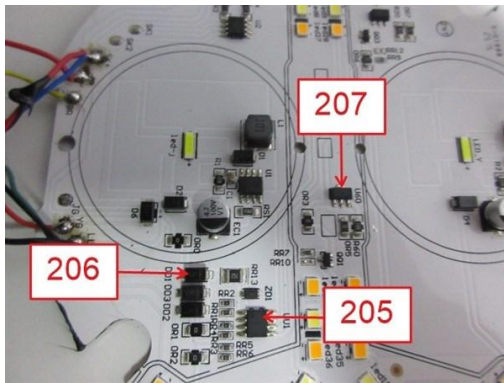
T. No.	Sample No.	Colour and Description	Photograph
T145	148	Black plastic with white printing (Shell)	
T146	149	Silvery metal (Ring)	
T147	150	Black plated metal (Screw)	
T148	151	Black plastic (Base)	
T149	152	Black plastic (Knob)	
T150	153	Beige plastic (Base)	
T151	154	White plastic (Knob)	
T152	155	Green plastic (Knob)	
T153	156	Silvery metal (Pin)	
T154	157	Silvery metal (Solder)	

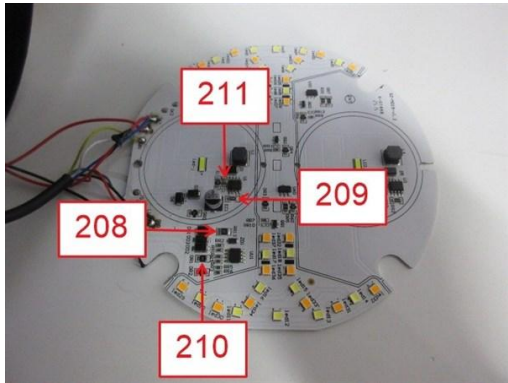
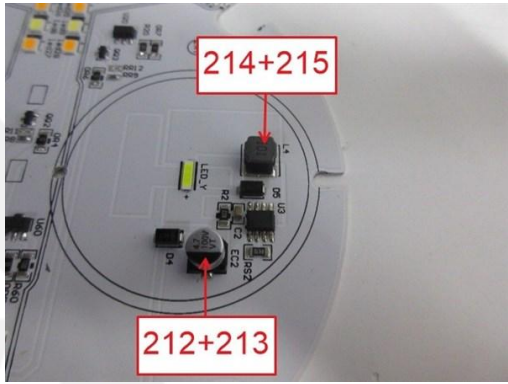
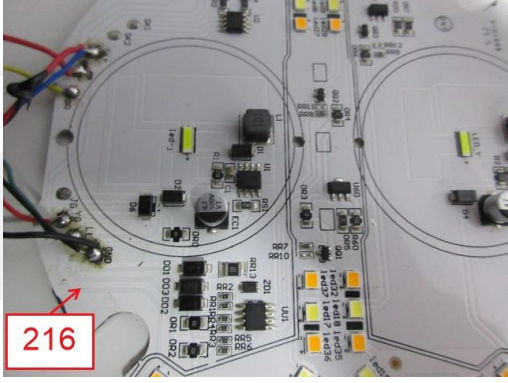
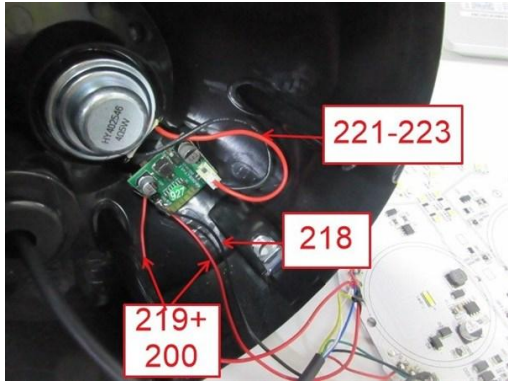
T. No.	Sample No.	Colour and Description	Photograph
T155	159	Black plastic (Shell)	
T156	161	Black/ white coating on surface	
T157	162	Silvery metal (Substrate)	
T158	163	Silvery metal (Substrate)	
T159	164	Silvery metal (Substrate)	
T160	165	Silvery metal (Substrate)	
T161	166	Silvery metal (Substrate)	

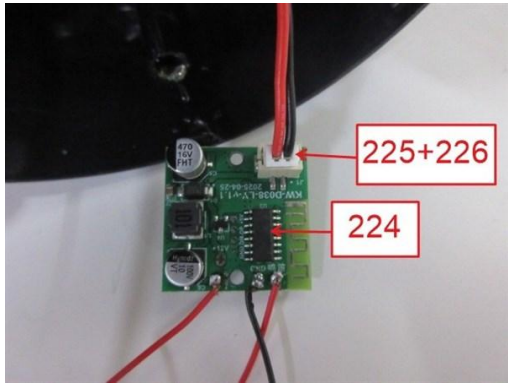
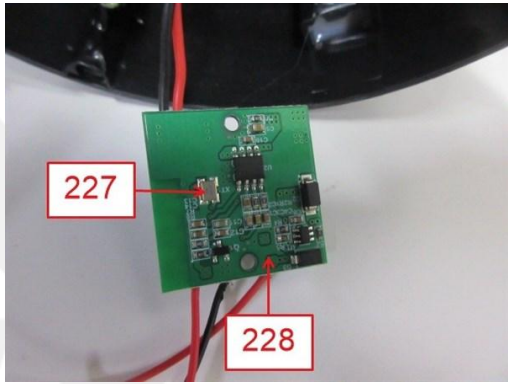
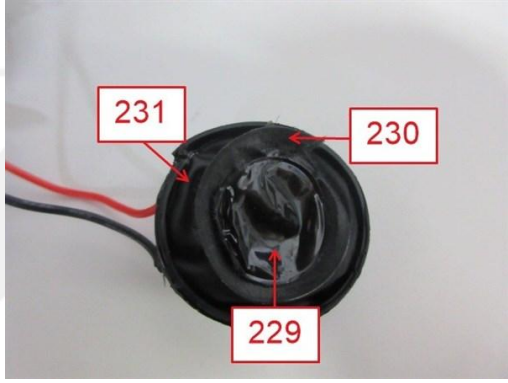
T. No.	Sample No.	Colour and Description	Photograph
T162	167	Translucent red plastic (Reflector)	
T163	168	White body (LED)	
T164	169	Orange body LED)	
T165	170	White body with pin (EC)	
T166	171	Black body with pin (EC)	
T167	172	Black body with pin (EC)	
T168	173	Black body with pin (EC)	
T169	174	Black/ white body with pin (EC)	
T170	175	Black/ white body with pin (EC)	
T171	176	Brown body with pin (EC)	
T172	177	Green PCB	

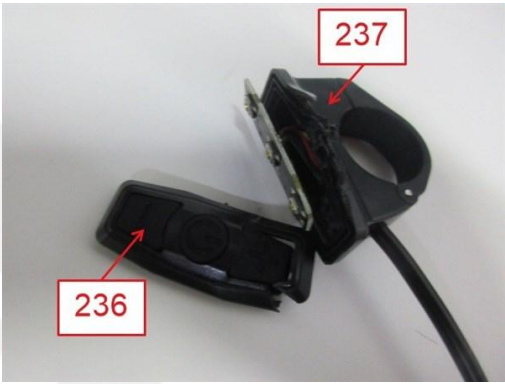
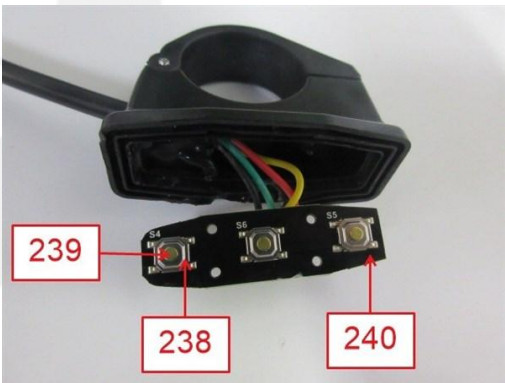
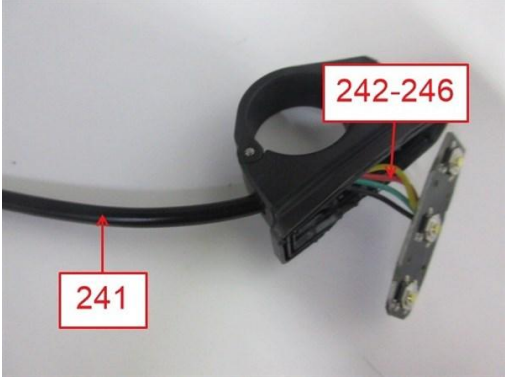
T. No.	Sample No.	Colour and Description	Photograph
T173	179	Yellow soft plastic (Wire jacket)	
T174	180	Blue soft plastic (Wire jacket)	
T175	181	Black soft plastic (Wire jacket)	
T176	182	White soft plastic (Wire jacket)	
T177	183	Red soft plastic (Wire jacket)	
T178	184	Green soft plastic (Wire jacket)	
T179	185	Coppery metal (Wire)	
T180	186	Black glue	
T181	187	Silvery metal (Spring)	
T182	188	Black soft plastic (Cable jacket)	
T183	189	Black plastic (Plug)	
T184	190	Silvery metal (Pin)	
T185	191	Black soft plastic	

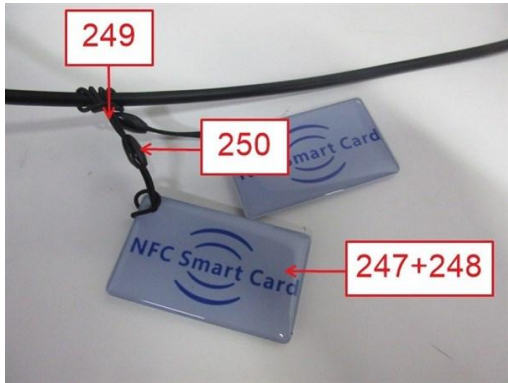
T. No.	Sample No.	Colour and Description	Photograph
T186	192	Black plastic (Shell)	
T187	193	Transparent plastic (Cover)	
T188	194	Black soft plastic (Stud)	
T189	195	Black plastic (Plug)	
T190	196	Silvery metal (Inner)	

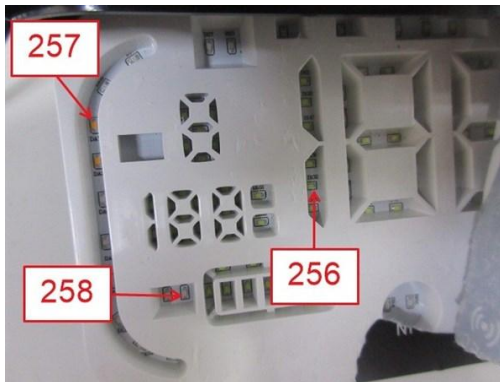
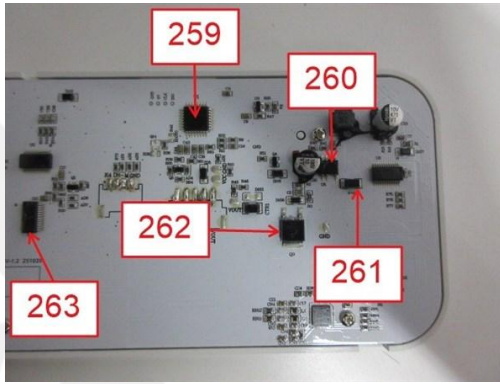
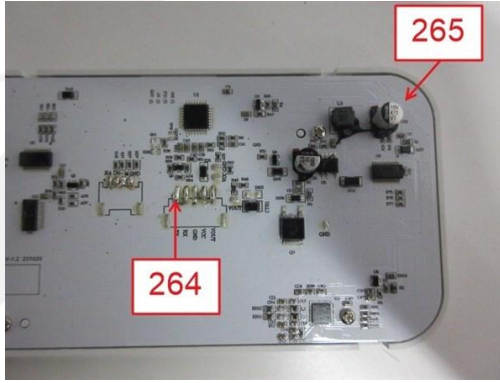
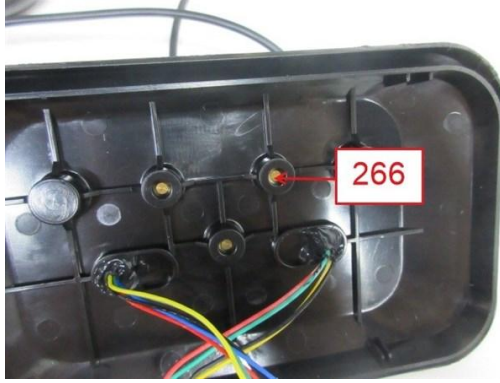
T. No.	Sample No.	Colour and Description	Photograph
T191	197	White plastic (Part)	
T192	198	Silvery plated plastic (Shell)	
T193	199	Transparent plastic (Bead)	
T194	200	Black plastic (Holder)	
T195	201	Black plated metal (Screw)	
T196	202	Yellow body (LED)	
T197	203	Orange body (LED)	
T198	204	Yellow body (LED)	
T199	205	Black body with pin (EC)	
T200	206	Black body with pin (EC)	
T201	207	Black body with pin (EC)	

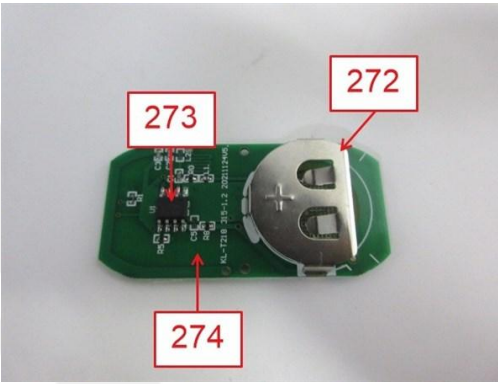
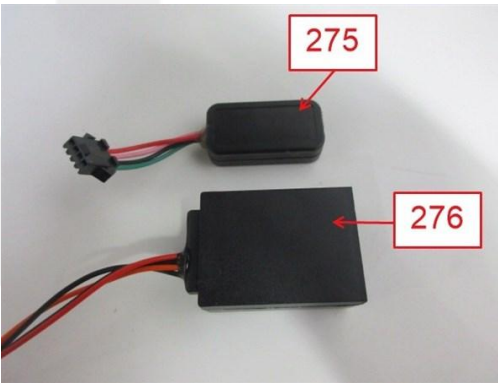
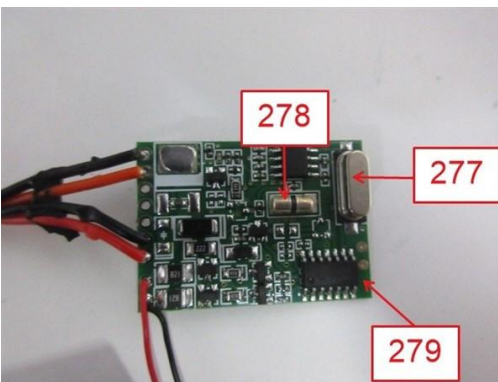
T. No.	Sample No.	Colour and Description	Photograph
T202	208	Black/ white body with pin (EC)	
T203	209	Black/ white body with pin (EC)	
T204	210	Black/ white body with pin (EC)	
T205	211	Brown body with pin (EC)	
T206	212	Silvery metal with black printing (Tube)	
T207	213	Black plastic (Base)	
T208	214	Silvery-grey metal (Sheet)	
T209	215	Black solid material	
T210	216	White/ black surfaced metal	
T211	218	Black soft plastic (Wire jacket)	
T212	219	Red soft plastic (Wire jacket)	
T213	220	Copperty metal (Wire)	
T214	221	Black soft plastic with white printing (Wire jacket)	
T215	222	Red soft plastic with white printing (Wire jacket)	
T216	223	Silvery metal (Wire)	

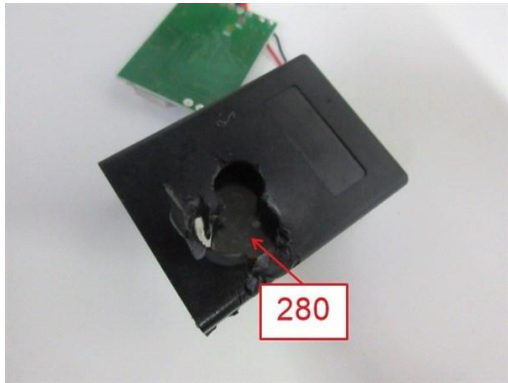
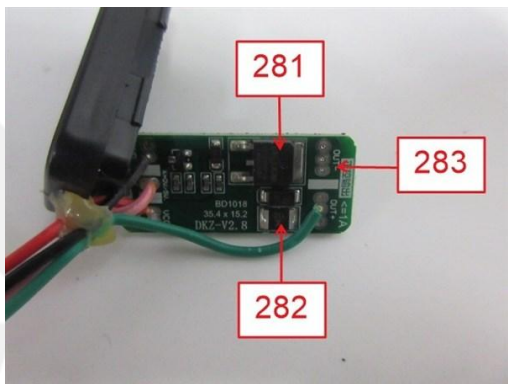
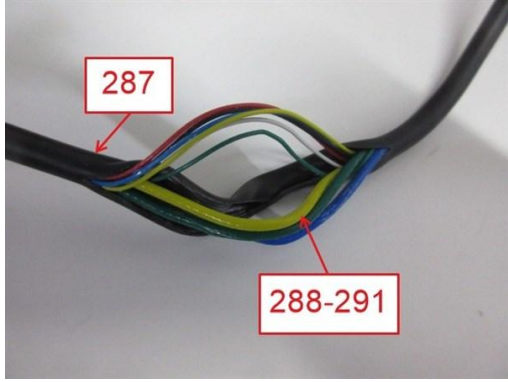
T. No.	Sample No.	Colour and Description	Photograph
T217	224	Black body with pin (EC)	
T218	225	Beige plastic (Plug)	
T219	226	White plastic (Plug)	
T220	227	Silvery metal body (EC)	
T221	228	Green PCB board	
T222	229	Black plastic (Film)	
T223	230	Black fiber	
T224	231	Black soft plastic (Film)	
T225	232	Transparent brown plastic (Film)	
T226	233	Silvery metal magnet	

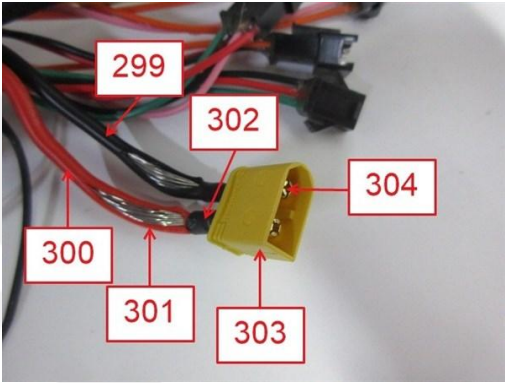
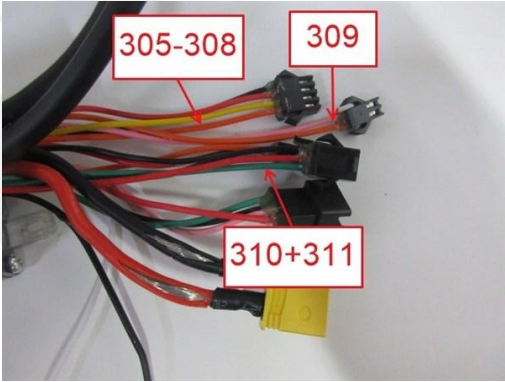
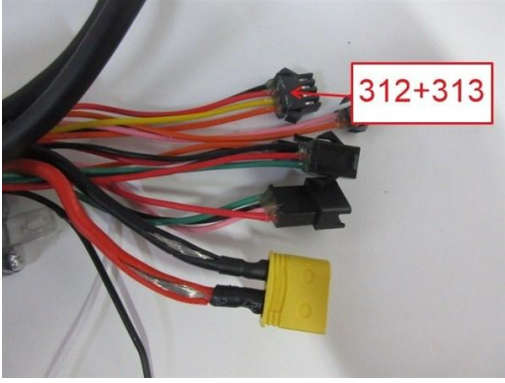
T. No.	Sample No.	Colour and Description	Photograph
T227	234	Silvery metal with black printing (Cover)	
T228	235	White fiber	
T229	236	Black soft plastic (Button)	
T230	237	Black plastic (Shell)	
T231	238	Silvery metal (Body)	
T232	239	Golden metal (Knob)	
T233	240	Black PCB	
T234	241	Black soft plastic (Cable jacket)	
T235	242	Black soft plastic (Wire jacket)	
T236	243	Green soft plastic (Wire jacket)	
T237	244	Red soft plastic (Wire jacket)	
T238	245	Yellow soft plastic (Wire jacket)	
T239	246	Coppery metal (Wire)	

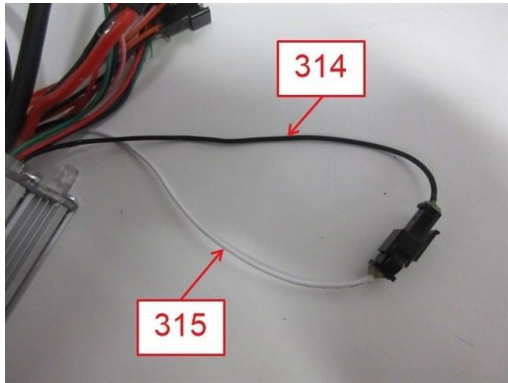
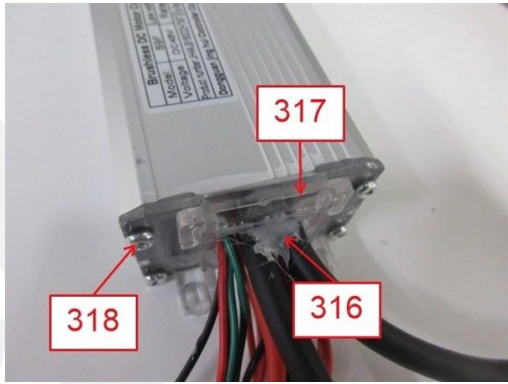
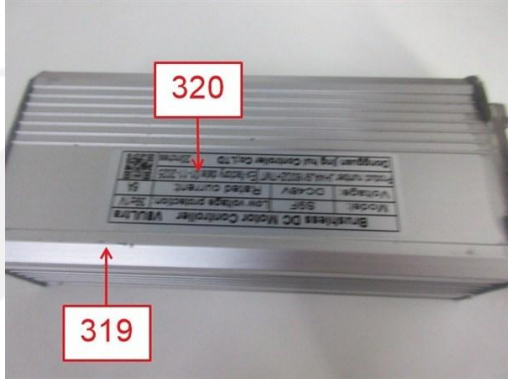
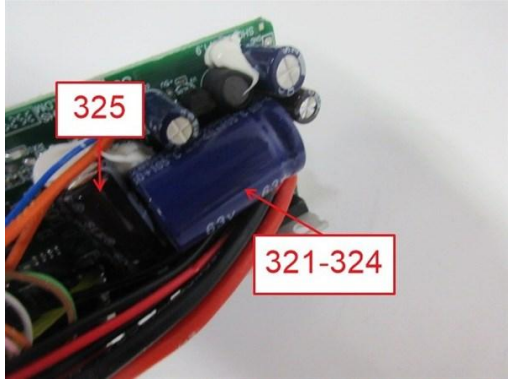
T. No.	Sample No.	Colour and Description	Photograph
T240	247	Transparent plastic (Cover)	
T241	248	White plastic with blue printing (Card)	
T242	249	Black elastic rope	
T243	250	Black soft plastic (Part)	
T244	251	Black plastic (Screen)	
T245	252	Black plastic (Holder, screen)	
T246	253	Black soft plastic (Holder, screen)	
T247	254	Transparent adhesive plastic with black/white printing (Sheet)	
T248	255	White plastic (Plate)	

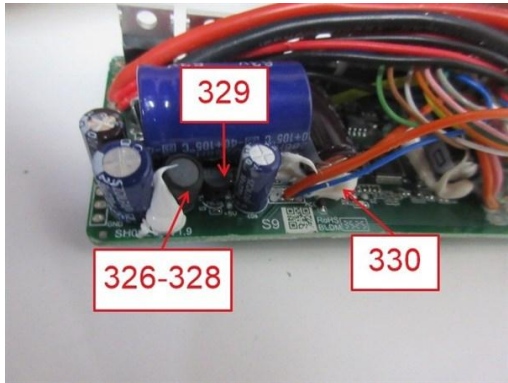
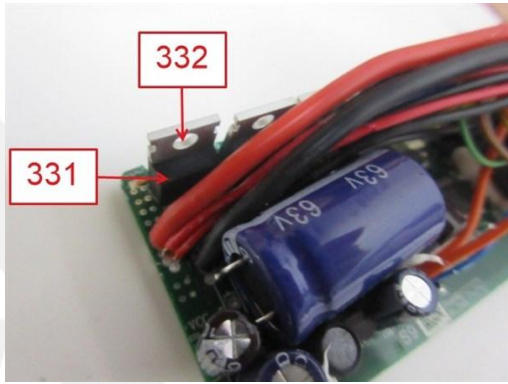
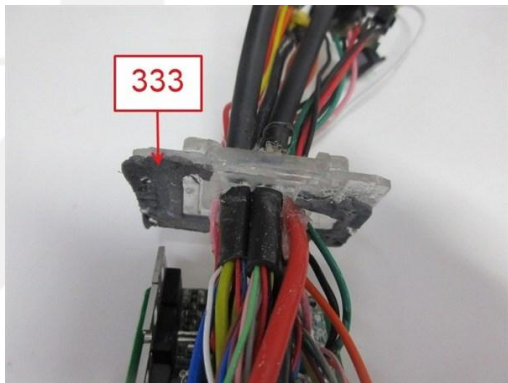
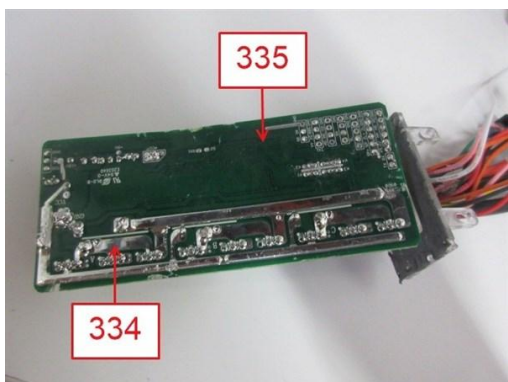
T. No.	Sample No.	Colour and Description	Photograph
T249	256	Yellow body (LED)	
T250	257	Orange body (LED)	
T251	258	White body (LED)	
T252	259	Black body with pin (EC)	
T253	260	Black body with pin (EC)	
T254	261	Black body with pin (EC)	
T255	262	Black body with pin (EC)	
T256	263	Black body with pin (EC)	
T257	264	Silvery metal (Solder)	
T258	265	White PCB	
T259	266	Golden metal (Inner)	

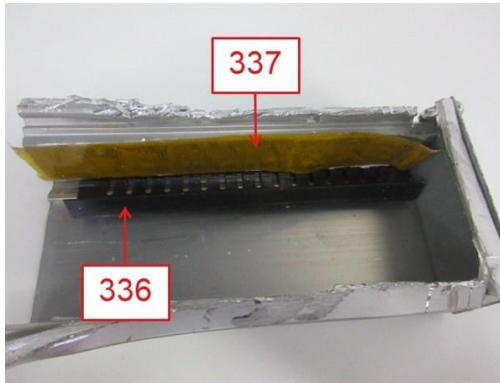
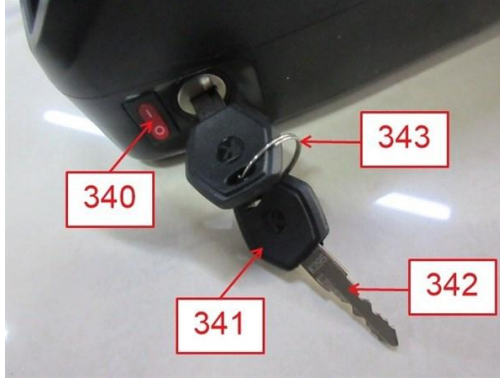
T. No.	Sample No.	Colour and Description	Photograph
T260	267	Silvery metal (Buckle)	
T261	268	Silvery metal (Ring)	
T262	269	Black soft plastic (Button)	
T263	270	Black plastic (Shell)	
T264	271	White plastic (Shell)	
T265	272	Silvery metal (Battery cover)	
T266	273	Black body with pin (EC)	
T267	274	Green PCB	
T268	275	Black plastic (Shell)	
T269	276	Black plastic (Shell)	
T270	277	Silvery metal (Body)	
T271	278	Silvery metal (Body)	
T272	279	Green PCB	

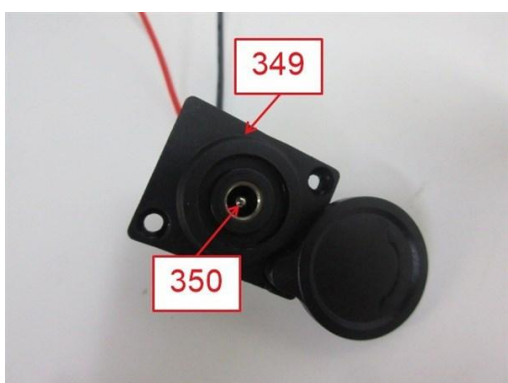
T. No.	Sample No.	Colour and Description	Photograph
T273	280	Silvery metal (Sheet)	
T274	281	Black body with pin (EC)	
T275	282	Black body with pin (EC)	
T276	283	Green PCB	
T277	284	Black soft plastic (Plug)	
T278	285	Red plastic (Plug)	
T279	286	Golden metal (Inner)	
T280	287	Black soft plastic (Cable jacket)	
T281	288	Blue soft plastic (Wire jacket)	
T282	289	Green soft plastic (Wire jacket)	
T283	290	Yellow soft plastic (Wire jacket)	
T284	291	Silvery metal (Wire)	

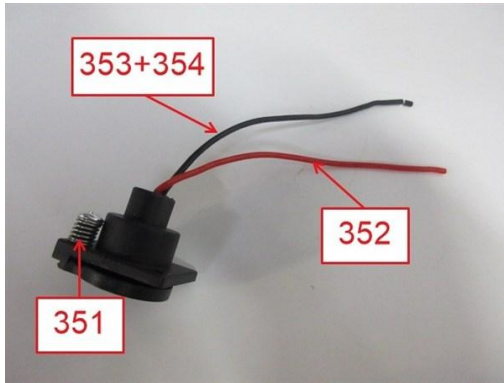
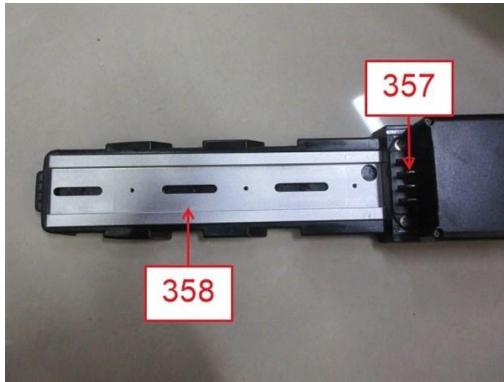
T. No.	Sample No.	Colour and Description	Photograph
T285	292	Green soft plastic (Wire jacket)	
T286	293	White soft plastic (Wire jacket)	
T287	294	Red soft plastic (Wire jacket)	
T288	295	Black soft plastic (Wire jacket)	
T289	296	Blue soft plastic (Wire jacket)	
T290	297	Yellow soft plastic (Wire jacket)	
T291	298	Silvery metal (Wire)	
T292	299	Black soft plastic (Wire jacket)	
T293	300	Red soft plastic (Wire jacket)	
T294	301	Silvery metal (Wire)	
T295	302	Black soft plastic with white printing (Heat-shrinkable tube)	
T296	303	Yellow plastic (Plug)	
T297	304	Golden metal (Pin)	
T298	305	Black soft plastic (Wire jacket)	
T299	306	Red soft plastic (Wire jacket)	
T300	307	Yellow soft plastic (Wire jacket)	
T301	308	Orange soft plastic (Wire jacket)	
T302	309	Pink soft plastic (Wire jacket)	
T303	310	Green soft plastic (Wire jacket)	
T304	311	Silvery metal (Wire)	
T305	312	Black plastic (Plug)	
T306	313	Silvery metal (Pin)	

T. No.	Sample No.	Colour and Description	Photograph
T307	314	Black soft plastic (Wire jacket)	
T308	315	White soft plastic (Wire jacket)	
T309	316	Transparent glue	
T310	317	Transparent plastic (Cover)	
T311	318	Silvery metal (Screw)	
T312	319	Silvery metal (Box)	
T313	320	Silvery adhesive plastic with black printing (Sticker)	
T314	321	Dark blue plastic tube with white printing (Electrolytic capacitor)	
T315	322	Silvery metal shell (Electrolytic capacitor)	
T316	323	Black rubber	
T317	324	Silvery metal (Pin)	
T318	325	Dark brown plastic tube with white printing (Electrolytic capacitor)	

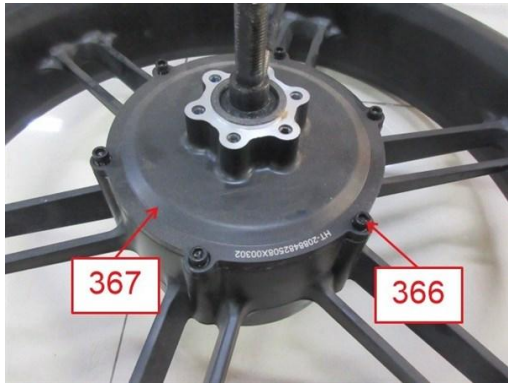
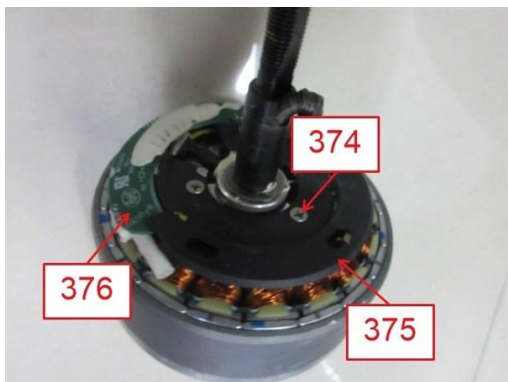
T. No.	Sample No.	Colour and Description	Photograph
T319	326	Black soft plastic (Tube)	
T320	327	Black solid material	
T321	328	Coppery metal (Coil)	
T322	329	Black body with pin (EC)	
T323	330	White glue	
T324	331	Black solid material	
T325	332	Silvery metal (Plate)	
T326	333	Grey glue	
T327	334	Silvery metal (Solder)	
T328	335	Green PCB	

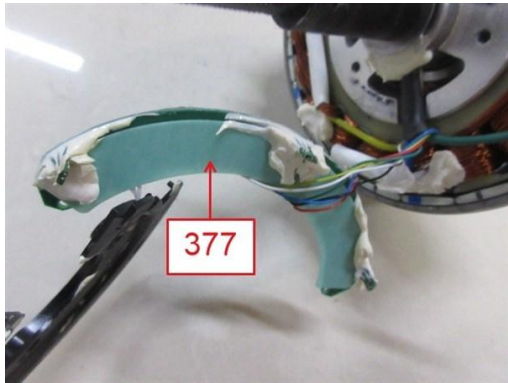
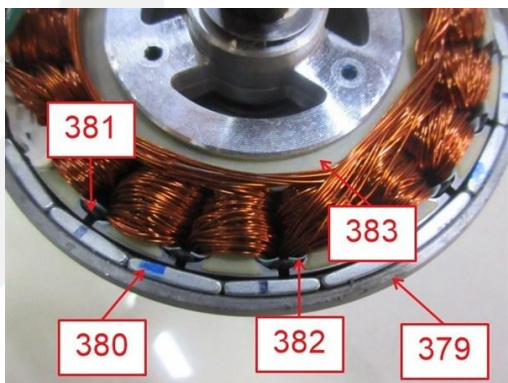
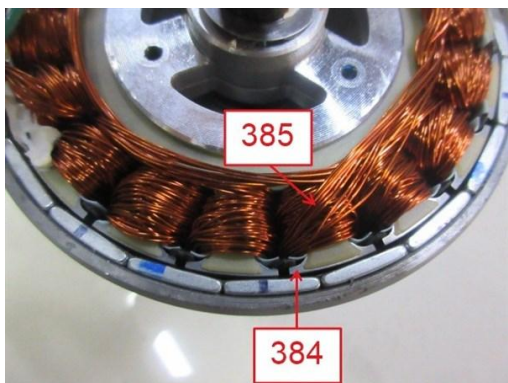
T. No.	Sample No.	Colour and Description	Photograph
T329	336	Black plated metal (Sheet)	
T330	337	Transparent brown plastic (Film)	
T331	338	Black plastic (Shell)	
T332	339	Transparent adhesive plastic with black/ white/ orange printing	
T333	340	Red plastic with white printing (Button)	
T334	341	Black plastic (Key)	
T335	342	Silvery metal (Key)	
T336	343	Silvery metal (Ring)	

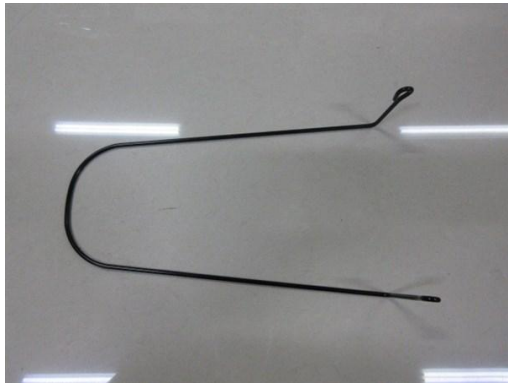
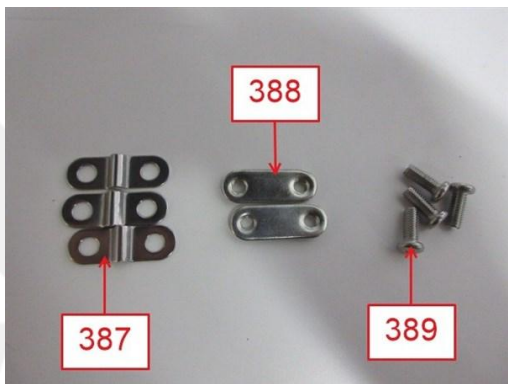
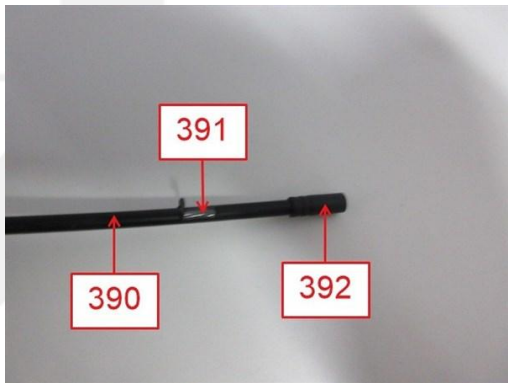
T. No.	Sample No.	Colour and Description	Photograph
T337	344	Silvery metal (Screw)	
T338	345	Silvery metal (Sheet)	
T339	346	Silvery metal (Knob)	
T340	347	Black plastic (Box)	
T341	348	Silvery metal (Sheet)	
T342	349	Black plastic (Shell)	
T343	350	Silvery metal (Pin)	

T. No.	Sample No.	Colour and Description	Photograph
T344	351	Silvery metal (Spring)	
T345	352	Red soft plastic (Wire jacket)	
T346	353	Black soft plastic (Wire jacket)	
T347	354	Silvery metal (Wire)	
T348	355	Black plastic (Honeycomb)	
T349	356	Silvery metal (Sheet)	
T350	357	Silvery metal (Sheet)	
T351	358	Silvery metal (Plate)	

T. No.	Sample No.	Colour and Description	Photograph
T352	359	Red soft plastic with white printing (Wire jacket)	
T353	360	Black soft plastic with white printing (Wire jacket)	
T354	361	Black soft plastic (Cable jacket)	
T355	362	Purple plastic with black printing (Battery)	
T356	363	Silvery metal shell (Battery)	
T357	364	Black plastic (Chainwheel guard)	
T358	365	Black surfaced metal (Chainwheel)	

T. No.	Sample No.	Colour and Description	Photograph
T359	366	Black surfaced metal (Screw)	
T360	367	Silvery metal (Substrate, cover)	
T361	368	Beige plastic (Gear)	
T362	369	Silvery metal (Axle)	
T363	370	Black surfaced metal (Sheet)	
T364	371	Light golden metal (Cover)	
T365	372	Silvery metal (Sheet)	
T366	373	Silvery metal (Pan)	
T367	374	Silvery metal (Screw)	
T368	375	Black plastic (Sheet)	
T369	376	Green PCB	

T. No.	Sample No.	Colour and Description	Photograph
T370	377	Light blue plastic (Sheet)	
T371	378	White soft plastic with white fiber (Tube)	
T372	379	Silvery metal (Shell)	
T373	380	Silvery metal magnet	
T374	381	Black plastic (Part)	
T375	382	White plastic (Sheet)	
T376	383	Beige plastic (Plate)	
T377	384	Silvery metal (Sheet)	
T378	385	Coppery metal (Coil)	

T. No.	Sample No.	Colour and Description	Photograph
T379	386	Silvery metal (Substrate)	
T380	387	Silvery metal (Sheet)	
T381	388	Silvery metal (Part)	
T382	389	Silvery metal (Screw)	
T383	390	Black soft plastic (Cable jacket)	
T384	391	Silvery metal (Wire)	
T385	392	Black plastic (Cap)	

3. Test Result

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
001	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	--
003	BL	BL	BL	BL	--
004	BL	BL	Inconclusive ^(a)	BL	--
005	BL	BL	BL	BL	BL
006	BL	BL	Inconclusive ^(a)	BL	--
007	BL	BL	BL	BL	BL
008	BL	BL	BL	BL	BL
009	BL	BL	BL	BL	BL
010	BL	BL	Inconclusive ^(a)	BL	--
011	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	--
013	BL	BL	BL	BL	BL
014	BL	BL	BL	BL	BL
015	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	BL
017	BL	BL	BL	BL	BL
018	BL	BL	BL	BL	BL
019	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
020	BL	BL	BL	BL	Inconclusive ^(b)
022	BL	BL	BL	BL	BL
023	BL	BL	BL	BL	BL
024	BL	BL	BL	BL	--
025	BL	BL	Inconclusive ^(a)	BL	--
026	Inconclusive ^(a)	BL	Inconclusive ^(a)	BL	--
027	BL	BL	BL	BL	BL
028	BL	BL	Inconclusive ^(a)	BL	--
029	BL	BL	BL	BL	BL
030	BL	BL	BL	BL	BL
031	Inconclusive ^(a)	OL ^(a)	BL	BL	--
032	BL	BL	BL	BL	--
033	BL	BL	BL	BL	BL
034	BL	BL	BL	BL	--
035	BL	BL	BL	BL	BL
036	BL	BL	BL	BL	BL
037	BL	BL	BL	BL	BL
038	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
040	BL	BL	BL	BL	BL
041	BL	BL	Inconclusive ^(a)	BL	--
042	BL	BL	BL	BL	BL
043	BL	BL	BL	BL	BL
044	BL	BL	BL	BL	BL
045	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	--
047	BL	BL	BL	BL	--
049	BL	BL	Inconclusive ^(a)	BL	--
050	BL	BL	Inconclusive ^(a)	BL	--
051	BL	BL	Inconclusive ^(a)	BL	--
052	BL	BL	BL	BL	--
053	BL	BL	Inconclusive ^(a)	BL	--
054	BL	BL	Inconclusive ^(a)	BL	--
055	BL	BL	Inconclusive ^(a)	BL	--
056	BL	BL	Inconclusive ^(a)	BL	--
057	BL	Inconclusive ^(a)	BL	BL	Inconclusive ^(b)
059	BL	BL	Inconclusive ^(a)	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
060	BL	BL	Inconclusive ^(a)	BL	--
061	BL	BL	BL	BL	BL
062	BL	BL	BL	BL	Inconclusive ^(b)
063	BL	BL	Inconclusive ^(a)	BL	--
064	BL	BL	BL	BL	--
065	BL	BL	BL	BL	--
066	BL	BL	BL	BL	--
067	BL	BL	BL	BL	BL
068	BL	BL	BL	BL	BL
069	BL	BL	Inconclusive ^(a)	BL	--
070	BL	BL	Inconclusive ^(a)	BL	--
071	BL	BL	BL	BL	BL
072	BL	BL	BL	BL	--
073	BL	BL	BL	BL	--
074	BL	BL	BL	BL	--
075	BL	BL	BL	BL	--
076	BL	BL	BL	BL	--
077	BL	BL	BL	BL	BL
078	BL	BL	BL	BL	BL
079	BL	BL	Inconclusive ^(a)	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
080	BL	BL	BL	BL	--
081	BL	BL	Inconclusive ^(a)	BL	--
082	BL	BL	BL	BL	--
083	BL	BL	Inconclusive ^(a)	BL	--
084	BL	BL	BL	BL	BL
085	BL	BL	BL	BL	BL
086	BL	BL	Inconclusive ^(a)	BL	--
087	BL	BL	BL	BL	BL
088	BL	BL	Inconclusive ^(a)	BL	--
089	BL	BL	BL	BL	BL
090	BL	BL	BL	BL	BL
091	BL	BL	BL	BL	BL
092	BL	BL	Inconclusive ^(a)	BL	--
093	BL	BL	BL	BL	Inconclusive ^(b)
094	BL	OL ^(a)	BL	BL	--
095	BL	BL	Inconclusive ^(a)	BL	--
096	BL	BL	Inconclusive ^(a)	BL	--
097	BL	BL	BL	BL	BL
098	BL	BL	BL	BL	BL
099	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
100	BL	BL	BL	BL	--
101	BL	BL	Inconclusive ^(a)	BL	--
102	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	BL
104	BL	BL	BL	BL	BL
105	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	--
107	BL	BL	BL	BL	--
108	BL	BL	BL	BL	--
109	BL	BL	BL	BL	--
110	BL	BL	Inconclusive ^(a)	BL	--
111	BL	BL	BL	BL	--
112	BL	BL	BL	BL	--
113	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	Inconclusive ^(b)
115	BL	BL	BL	BL	Inconclusive ^(b)
116	BL	BL	BL	BL	Inconclusive ^(b)
117	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	BL
119	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
120	BL	BL	BL	BL	BL
121	BL	BL	BL	BL	BL
122	BL	BL	BL	BL	BL
123	BL	BL	BL	BL	BL
124	BL	BL	BL	BL	BL
125	BL	BL	BL	BL	BL
126	BL	BL	BL	BL	BL
127	BL	BL	BL	BL	BL
128	BL	BL	BL	BL	BL
129	BL	BL	BL	BL	BL
130	BL	BL	BL	BL	BL
131	BL	BL	BL	BL	BL
132	BL	BL	BL	BL	BL
133	BL	BL	BL	BL	BL
134	BL	BL	BL	BL	BL
135	BL	BL	BL	BL	BL
136	BL	BL	BL	BL	BL
137	BL	BL	BL	BL	--
138	BL	BL	BL	BL	Inconclusive ^(b)
139	Inconclusive ^(a)	OL ^(a)	BL	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
140	BL	BL	BL	BL	--
141	BL	BL	Inconclusive ^(a)	BL	--
142	BL	BL	BL	BL	BL
143	BL	BL	BL	BL	BL
144	BL	BL	Inconclusive ^(a)	BL	--
145	BL	BL	BL	BL	--
146	BL	BL	Inconclusive ^(a)	BL	--
147	BL	BL	BL	BL	--
148	BL	BL	BL	BL	BL
149	BL	BL	Inconclusive ^(a)	BL	--
150	BL	BL	Inconclusive ^(a)	BL	--
151	BL	BL	BL	BL	Inconclusive ^(b)
152	BL	BL	BL	BL	BL
153	BL	BL	BL	BL	BL
154	BL	BL	BL	BL	BL
155	BL	BL	BL	BL	BL
156	BL	BL	BL	BL	--
157	OL ^(a)	Inconclusive ^(a)	BL	BL	--
159	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
161	BL	BL	BL	BL	BL
162	BL	BL	Inconclusive ^(a)	BL	--
163	BL	BL	Inconclusive ^(a)	BL	--
164	BL	BL	BL	BL	--
165	BL	BL	Inconclusive ^(a)	BL	--
166	BL	BL	BL	BL	--
167	BL	BL	BL	BL	BL
168	BL	BL	BL	BL	BL
169	Inconclusive ^(a)	BL	BL	BL	BL
170	BL	BL	BL	BL	BL
171	BL	BL	BL	BL	BL
172	BL	BL	BL	BL	BL
173	BL	BL	BL	BL	BL
174	BL	OL ^(a)	BL	BL	BL
175	BL	OL ^(a)	BL	BL	BL
176	Inconclusive ^(a)	BL	BL	BL	Inconclusive ^(b)
177	BL	BL	BL	BL	Inconclusive ^(b)
179	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
180	BL	BL	BL	BL	BL
181	BL	BL	BL	BL	BL
182	BL	BL	BL	BL	BL
183	BL	BL	BL	BL	BL
184	BL	BL	BL	BL	BL
185	BL	BL	BL	BL	--
186	BL	BL	BL	BL	BL
187	BL	BL	BL	BL	--
188	BL	BL	BL	BL	BL
189	BL	BL	BL	BL	Inconclusive ^(b)
190	BL	BL	BL	BL	--
191	BL	BL	BL	BL	BL
192	BL	BL	BL	BL	BL
193	BL	BL	BL	BL	BL
194	BL	BL	BL	BL	BL
195	BL	BL	BL	BL	Inconclusive ^(b)
196	BL	BL	BL	BL	--
197	BL	BL	BL	BL	BL
198	BL	BL	BL	BL	BL
199	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
200	BL	BL	BL	BL	BL
201	BL	BL	Inconclusive ^(a)	BL	--
202	BL	BL	BL	BL	BL
203	OL ^(a)	BL	BL	BL	BL
204	Inconclusive ^(a)	BL	BL	BL	BL
205	BL	BL	BL	BL	BL
206	BL	BL	BL	BL	BL
207	BL	BL	BL	BL	BL
208	BL	OL ^(a)	Inconclusive ^(a)	BL	BL
209	BL	BL	Inconclusive ^(a)	BL	BL
210	BL	OL ^(a)	Inconclusive ^(a)	BL	BL
211	Inconclusive ^(a)	BL	BL	BL	BL
212	BL	BL	BL	BL	--
213	BL	BL	BL	BL	BL
214	BL	BL	Inconclusive ^(a)	BL	--
215	BL	BL	BL	BL	BL
216	BL	BL	BL	BL	--
218	BL	BL	BL	BL	BL
219	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
220	BL	BL	BL	BL	--
221	BL	BL	BL	BL	BL
222	BL	BL	BL	BL	BL
223	BL	BL	BL	BL	--
224	BL	BL	BL	BL	BL
225	BL	BL	BL	BL	BL
226	BL	BL	BL	BL	BL
227	Inconclusive ^(a)	BL	BL	BL	--
228	BL	BL	BL	BL	BL
229	BL	BL	BL	BL	BL
230	BL	BL	BL	BL	BL
231	BL	BL	BL	BL	BL
232	BL	BL	BL	BL	BL
233	BL	BL	BL	BL	--
234	BL	BL	BL	BL	--
235	BL	BL	BL	BL	BL
236	BL	BL	BL	BL	BL
237	BL	BL	BL	BL	Inconclusive ^(b)
238	BL	BL	Inconclusive ^(a)	BL	--
239	BL	BL	BL	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
240	BL	BL	BL	BL	Inconclusive ^(b)
241	BL	BL	BL	BL	BL
242	BL	BL	BL	BL	BL
243	BL	BL	BL	BL	BL
244	BL	BL	BL	BL	BL
245	BL	BL	BL	BL	BL
246	BL	BL	BL	BL	--
247	BL	BL	BL	BL	BL
248	BL	BL	BL	BL	BL
249	BL	BL	BL	BL	BL
250	BL	BL	BL	BL	BL
251	BL	BL	BL	BL	BL
252	BL	BL	BL	BL	BL
253	BL	BL	BL	BL	BL
254	BL	BL	BL	BL	BL
255	BL	BL	BL	BL	BL
256	BL	BL	BL	BL	BL
257	BL	BL	BL	BL	BL
258	BL	BL	BL	BL	BL
259	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
260	BL	BL	BL	BL	BL
261	BL	BL	BL	BL	BL
262	BL	BL	BL	BL	BL
263	BL	BL	BL	BL	BL
264	Inconclusive ^(a)	BL	BL	BL	--
265	BL	BL	BL	BL	Inconclusive ^(b)
266	Inconclusive ^(a)	OL ^(a)	BL	BL	--
267	BL	BL	BL	BL	--
268	BL	BL	Inconclusive ^(a)	BL	--
269	BL	BL	BL	BL	BL
270	BL	BL	BL	BL	BL
271	BL	BL	BL	BL	BL
272	BL	BL	Inconclusive ^(a)	BL	--
273	BL	Inconclusive ^(a)	BL	BL	BL
274	BL	BL	BL	BL	Inconclusive ^(b)
275	BL	BL	BL	BL	Inconclusive ^(b)
276	BL	BL	BL	BL	BL
277	BL	BL	BL	BL	--
278	BL	OL ^(a)	Inconclusive ^(a)	BL	--
279	BL	BL	BL	BL	Inconclusive ^(b)
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
280	BL	BL	BL	BL	--
281	BL	BL	BL	BL	BL
282	BL	BL	BL	BL	BL
283	BL	BL	BL	BL	Inconclusive ^(b)
284	BL	BL	BL	BL	BL
285	BL	BL	BL	BL	Inconclusive ^(b)
286	BL	OL ^(a)	BL	BL	--
287	BL	BL	BL	BL	Inconclusive ^(b)
288	BL	BL	BL	BL	BL
289	BL	BL	BL	BL	BL
290	BL	BL	BL	BL	BL
291	BL	BL	BL	BL	--
292	BL	BL	BL	BL	BL
293	BL	BL	BL	BL	BL
294	BL	BL	BL	BL	BL
295	BL	BL	BL	BL	BL
296	BL	BL	BL	BL	BL
297	BL	BL	BL	BL	BL
298	BL	BL	BL	BL	--
299	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
300	BL	BL	BL	BL	BL
301	BL	BL	BL	BL	--
302	BL	BL	BL	BL	BL
303	BL	BL	BL	BL	BL
304	BL	OL ^(a)	BL	BL	--
305	BL	BL	BL	BL	BL
306	BL	BL	BL	BL	BL
307	BL	BL	BL	BL	BL
308	BL	BL	BL	BL	BL
309	BL	BL	BL	BL	BL
310	BL	BL	BL	BL	Inconclusive ^(b)
311	BL	BL	BL	BL	--
312	BL	BL	BL	BL	BL
313	BL	BL	BL	BL	--
314	BL	BL	BL	BL	BL
315	BL	BL	BL	BL	BL
316	BL	BL	BL	BL	BL
317	BL	BL	BL	BL	BL
318	BL	BL	BL	BL	--
319	BL	BL	BL	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
320	BL	BL	BL	BL	BL
321	BL	BL	BL	BL	BL
322	BL	BL	BL	BL	--
323	BL	BL	BL	BL	BL
324	BL	BL	BL	BL	--
325	BL	BL	BL	BL	BL
326	BL	BL	BL	BL	BL
327	BL	BL	BL	BL	BL
328	BL	BL	BL	BL	--
329	BL	BL	BL	BL	Inconclusive ^(b)
330	BL	BL	BL	BL	BL
331	BL	BL	BL	BL	BL
332	BL	BL	BL	BL	--
333	BL	BL	BL	BL	BL
334	BL	BL	BL	BL	--
335	BL	BL	BL	BL	Inconclusive ^(b)
336	BL	BL	BL	BL	--
337	BL	BL	BL	BL	BL
338	BL	BL	BL	BL	BL
339	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
340	BL	BL	BL	BL	BL
341	BL	BL	BL	BL	BL
342	BL	BL	BL	BL	--
343	BL	BL	Inconclusive ^(a)	BL	--
344	BL	BL	Inconclusive ^(a)	BL	--
345	BL	BL	Inconclusive ^(a)	BL	--
346	BL	BL	Inconclusive ^(a)	BL	--
347	BL	BL	BL	BL	BL
348	BL	BL	BL	BL	--
349	BL	BL	BL	BL	BL
350	BL	OL ^(a)	BL	BL	--
351	BL	BL	Inconclusive ^(a)	BL	--
352	BL	BL	BL	BL	BL
353	BL	BL	BL	BL	BL
354	BL	BL	BL	BL	--
355	BL	BL	BL	BL	BL
356	OL ^(a)	BL	BL	BL	--
357	BL	BL	BL	BL	--
358	BL	BL	BL	BL	--
359	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
360	BL	BL	BL	BL	BL
361	BL	BL	BL	BL	BL
362	BL	BL	BL	BL	BL
363	BL	BL	BL	BL	--
364	BL	BL	BL	BL	BL
365	BL	BL	BL	BL	--
366	BL	BL	Inconclusive ^(a)	BL	--
367	BL	BL	Inconclusive ^(a)	BL	--
368	BL	BL	BL	BL	BL
369	BL	BL	Inconclusive ^(a)	BL	--
370	BL	BL	Inconclusive ^(a)	BL	--
371	BL	BL	BL	BL	--
372	BL	BL	Inconclusive ^(a)	BL	--
373	BL	BL	Inconclusive ^(a)	BL	--
374	BL	BL	Inconclusive ^(a)	BL	--
375	BL	BL	BL	BL	BL
376	BL	BL	BL	BL	Inconclusive ^(b)
377	BL	BL	BL	BL	BL
378	BL	BL	BL	BL	BL
379	BL	BL	BL	BL	--
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

3.1 Quantitative screening of Lead, Cadmium, Mercury, Chromium and Bromine

Test Method: With reference to EN 62321-3-1:2014, analyzed by Energy-Dispersive X-Ray Fluorescence Spectrometers (XRF)

[Reporting Limit = 50 mg/kg for Cadmium, 300 mg/kg for Bromine, and 500 mg/kg for others]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Chromium [mg/kg]	Total Mercury [mg/kg]	Total Bromine [mg/kg]
380	BL	BL	BL	BL	--
381	BL	BL	BL	BL	BL
382	BL	BL	BL	BL	BL
383	BL	BL	BL	BL	BL
384	BL	BL	Inconclusive ^(a)	BL	--
385	BL	BL	BL	BL	--
386	BL	BL	BL	BL	--
387	BL	BL	Inconclusive ^(a)	BL	--
388	BL	BL	BL	BL	--
389	BL	BL	Inconclusive ^(a)	BL	--
390	BL	BL	BL	BL	BL
391	BL	BL	BL	BL	--
392	BL	BL	BL	BL	BL
RoHS Requirement	100	1000	1000	1000	1000

Note 1. "mg/kg" denotes milligram per kilogram

2. "BL" denotes below the limit

3. "OL" denotes over the limit

4. "N/A" denotes Not Applicable

5. "(a)" denotes further confirmation test was conducted, results are listed in 3.2

6. "(b)" denotes further confirmation test was conducted, results are listed in 3.3

XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Br	$X < (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA
ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA
ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X > (150+3\sigma)$
Pb	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Hg	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Br	$X < (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X < (500-3\sigma)$	$X > (500-3\sigma)$	NA

3.2 Heavy Metals Content Test (Total Cadmium, Total Lead, Total Mercury, Hexavalent Chromium)

Test method: Analyzed by ICP-OES with reference to

EN 62321-4:2014 / A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017

(For Hexavalent Chromium)

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [mg/kg]	Hexavalent Chromium [ug/cm²]	Conclusion
004	--	--	--	--	Negative	Pass
006	--	--	--	--	Negative	Pass
010	--	--	--	--	Negative	Pass
025	--	--	--	--	Negative	Pass
026	<2.0*	--	--	--	Negative	Pass
028	--	--	--	--	Negative	Pass
031	70.6	28219.9	--	--	--	Pass ^(c)
041	--	--	--	--	Negative	Pass
049	--	--	--	--	Negative	Pass
050	--	--	--	--	Negative	Pass
051	--	--	--	--	Negative	Pass
053	--	--	--	--	Negative	Pass
054	--	--	--	--	Negative	Pass
055	--	--	--	--	Negative	Pass
056	--	--	--	--	Negative	Pass
057	--	457	--	--	--	Pass
059	--	--	--	--	Negative	Pass
060	--	--	--	--	Negative	Pass
RoHS Requirement	100	1000	--	1000	1000 [#]	--

Note 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "ug/cm²" denotes microgram per square centimeters

4. "[#]" denotes Limit for metal CrVI, according to EN 62321

Hexavalent Chromium [ug/cm²]	Conclusion
< 0.1	Pass
0.10 - 0.13	Inconclusive
>0.13	Positive

5. "**" denotes higher reporting limit due to insufficient sample.

6. "^" denotes report as total chromium.

-(c) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".

3.2 Heavy Metals Content Test (Total Cadmium, Total Lead, Total Mercury, Hexavalent Chromium)

Test method: Analyzed by ICP-OES with reference to

EN 62321-4:2014 / A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017

(For Hexavalent Chromium)

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [mg/kg]	Hexavalent Chromium [ug/cm²]	Conclusion
063	--	--	--	--	Negative	Pass
069	--	--	--	--	Negative	Pass
070	--	--	--	--	Negative	Pass
079	--	--	--	--	Negative	Pass
081	--	--	--	--	Negative	Pass
083	--	--	--	--	Negative	Pass
086	--	--	--	--	Negative	Pass
088	--	--	--	--	Negative	Pass
092	--	--	--	--	Negative	Pass
094	--	114.0	--	--	--	Pass
095	--	--	--	--	Negative	Pass
096	--	--	--	--	Negative	Pass
101	--	--	--	--	Negative	Pass
110	--	--	--	--	Negative	Pass
139	29.6	27751.4	--	--	--	Pass ^(c)
RoHS Requirement	100	1000	--	1000	1000 [#]	--

Note 1. "<" denotes less than.

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3. "ug/cm²" denotes microgram per square centimeters

4. "##" denotes Limit for metal CrVI, according to EN 62321

Hexavalent Chromium [ug/cm²]	Conclusion
< 0.1	Pass
0.10 - 0.13	Inconclusive
>0.13	Positive

5. "*" denotes higher reporting limit due to insufficient sample.

6. "^" denotes report as total chromium.

-(c)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".

3.2 Heavy Metals Content Test (Total Cadmium, Total Lead, Total Mercury, Hexavalent Chromium)

Test method: Analyzed by ICP-OES with reference to

EN 62321-4:2014 / A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017

(For Hexavalent Chromium)

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [mg/kg]	Hexavalent Chromium [ug/cm²]	Conclusion
141	--	--	--	--	Negative	Pass
144	--	--	--	--	Negative	Pass
146	--	--	--	--	Negative	Pass
149	--	--	--	--	Negative	Pass
150	--	--	--	--	Negative	Pass
157	<2.0*	550.5	--	--	--	Pass
162	--	--	--	--	Negative	Pass
163	--	--	--	--	Negative	Pass
165	--	--	--	--	Negative	Pass
169	<2.0*	--	--	--	--	Pass
174	--	1210	--	--	--	Pass ^(d)
175	--	864	--	--	--	Pass
176	<2.0*	--	--	--	--	Pass
201	--	--	--	--	Negative	Pass
203	<2.0*	--	--	--	--	Pass
204	<2.0*	--	--	--	--	Pass
208	--	<10.0	--	<10.0 [^]	--	Pass
209	--	--	--	<10.0 [^]	--	Pass
210	--	738	--	<10.0 [^]	--	Pass
211	<2.0*	--	--	--	--	Pass
RoHS Requirement	100	1000	--	1000	1000 [#]	--

Note 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "ug/cm²" denotes microgram per square centimeters

4. "[#]" denotes Limit for metal CrVI, according to EN 62321

Hexavalent Chromium [ug/cm²]	Conclusion
< 0.1	Pass
0.10 - 0.13	Inconclusive
>0.13	Positive

5. "^{**}" denotes higher reporting limit due to insufficient sample.

6. "[^]" denotes report as total chromium.

-(c) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".

-(d) denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(a) "lead in high melting temperature type solder(i. e. lead-based alloy containing 85% by weight or more lead)".

3.2 Heavy Metals Content Test (Total Cadmium, Total Lead, Total Mercury, Hexavalent Chromium)

Test method: Analyzed by ICP-OES with reference to

EN 62321-4:2014 / A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017

(For Hexavalent Chromium)

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [mg/kg]	Hexavalent Chromium [ug/cm²]	Conclusion
214	--	--	--	--	Negative	Pass
227	<2.0*	--	--	--	--	Pass
238	--	--	--	--	Negative	Pass
264	<2.0*	--	--	--	--	Pass
266	64.1	24381.2	--	--	--	Pass ^(c)
268	--	--	--	--	Negative	Pass
272	--	--	--	--	Negative	Pass
273	--	1370	--	--	--	Pass ^(d)
278	--	15909.8	--	--	Negative	Pass ^(c)
286	--	25328.4	--	--	--	Pass ^(c)
304	--	24305.6	--	--	--	Pass ^(c)
343	--	--	--	--	Negative	Pass
344	--	--	--	--	Negative	Pass
345	--	--	--	--	Negative	Pass
346	--	--	--	--	Negative	Pass
350	--	29660.6	--	--	--	Pass ^(c)
351	--	--	--	--	Negative	Pass
356	<2.0*	--	--	--	--	Pass
366	--	--	--	--	Negative	Pass
367	--	--	--	--	Negative	Pass
369	--	--	--	--	Negative	Pass
370	--	--	--	--	Negative	Pass
372	--	--	--	--	Negative	Pass
373	--	--	--	--	Negative	Pass
374	--	--	--	--	Negative	Pass
384	--	--	--	--	Negative	Pass
387	--	--	--	--	Negative	Pass
389	--	--	--	--	Negative	Pass
RoHS Requirement	100	1000	--	1000	1000 [#]	--

Note 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "ug/cm²" denotes microgram per square centimeters

4. "[#]" denotes Limit for metal CrVI, according to EN 62321



Hexavalent Chromium [ug/cm ²]	Conclusion
< 0.1	Pass
0.10 - 0.13	Inconclusive
>0.13	Positive

5. "*" denotes higher reporting limit due to insufficient sample.

6. "^" denotes report as total chromium.

-(c)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".

-(d)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(a) "lead in high melting temperature type solder(i. e. lead-based alloy containing 85% by weight or more lead)".



3.3 Brominated Flame Retardants (PBBs & PBDEs)

Test Method: With reference to EN 62321-6:2015, extraction with toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 5mg/kg]

Test Item		Results [mg/kg]			RoHS Requirement [mg/kg]
		Sample 020+057+062	Sample 093+114+115	Sample 116+138+151	
PBBs	Monobromobiphenyl	<5	<5	<5	Sum of PBBs < 1000
	Dibromobiphenyl	<5	<5	<5	
	Tribromobiphenyl	<5	<5	<5	
	Tetrabromobiphenyl	<5	<5	<5	
	Pentabromobiphenyl	<5	<5	<5	
	Hexabromobiphenyl	<5	<5	<5	
	Heptabromobiphenyl	<5	<5	<5	
	Octabromobiphenyl	<5	<5	<5	
	Nonabromobiphenyl	<5	<5	<5	
	Decabromobiphenyl	<5	<5	<5	
	Sum of detected PBBs	<50	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	<5	Sum of PBDEs < 1000
	Dibromodiphenyl ether	<5	<5	<5	
	Tribromodiphenyl ether	<5	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	<5	
	Pentabromodiphenyl ether	<5	<5	<5	
	Hexabromodiphenyl ether	<5	<5	<5	
	Heptabromodiphenyl ether	8	<5	<5	
	Octabromodiphenyl ether	12	11	<5	
	Nonabromodiphenyl ether	43	28	<5	
	Decabromodiphenyl ether	91	56	<5	
	Sum of detected PBDEs	154	95	<50	

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.3 Brominated Flame Retardants (PBBs & PBDEs)

Test Method: With reference to EN 62321-6:2015, extraction with toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 5mg/kg]

Test Item		Results [mg/kg]			RoHS Requirement [mg/kg]
		Sample 189+195	Sample 176	Sample 177+240+265	
PBBs	Monobromobiphenyl	<5	<5	<5	Sum of PBBs < 1000
	Dibromobiphenyl	<5	<5	<5	
	Tribromobiphenyl	<5	<5	<5	
	Tetrabromobiphenyl	<5	<5	<5	
	Pentabromobiphenyl	<5	<5	<5	
	Hexabromobiphenyl	<5	<5	<5	
	Heptabromobiphenyl	<5	<5	<5	
	Octabromobiphenyl	<5	<5	<5	
	Nonabromobiphenyl	<5	<5	<5	
	Decabromobiphenyl	<5	<5	<5	
	Sum of detected PBBs	<50	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	<5	Sum of PBDEs < 1000
	Dibromodiphenyl ether	<5	<5	<5	
	Tribromodiphenyl ether	<5	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	<5	
	Pentabromodiphenyl ether	<5	<5	<5	
	Hexabromodiphenyl ether	<5	<5	<5	
	Heptabromodiphenyl ether	<5	<5	<5	
	Octabromodiphenyl ether	6	<5	<5	
	Nonabromodiphenyl ether	11	<5	<5	
	Decabromodiphenyl ether	19	<5	<5	
	Sum of detected PBDEs	<50	<50	<50	

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.3 Brominated Flame Retardants (PBBs & PBDEs)

Test Method: With reference to EN 62321-6:2015, extraction with toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 5mg/kg]

Test Item		Results [mg/kg]			RoHS Requirement [mg/kg]
		Sample 237+275+285	Sample 274+279+283	Sample 287+310	
PBBs	Monobromobiphenyl	<5	<5	<5	Sum of PBBs < 1000
	Dibromobiphenyl	<5	<5	<5	
	Tribromobiphenyl	<5	<5	<5	
	Tetrabromobiphenyl	<5	<5	<5	
	Pentabromobiphenyl	<5	<5	<5	
	Hexabromobiphenyl	<5	<5	<5	
	Heptabromobiphenyl	<5	<5	<5	
	Octabromobiphenyl	<5	<5	<5	
	Nonabromobiphenyl	<5	<5	<5	
	Decabromobiphenyl	<5	<5	<5	
	Sum of detected PBBs	<50	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	<5	Sum of PBDEs < 1000
	Dibromodiphenyl ether	<5	<5	<5	
	Tribromodiphenyl ether	<5	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	<5	
	Pentabromodiphenyl ether	<5	<5	<5	
	Hexabromodiphenyl ether	<5	<5	<5	
	Heptabromodiphenyl ether	8	<5	<5	
	Octabromodiphenyl ether	10	<5	<5	
	Nonabromodiphenyl ether	30	<5	<5	
	Decabromodiphenyl ether	68	<5	<5	
	Sum of detected PBDEs	116	<50	<50	

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.3 Brominated Flame Retardants (PBBs & PBDEs)

Test Method: With reference to EN 62321-6:2015, extraction with toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 5mg/kg]

Test Item		Results [mg/kg]		RoHS Requirement [mg/kg]
		Sample 329	Sample 335+376	
PBBs	Monobromobiphenyl	<5	<5	Sum of PBBs < 1000
	Dibromobiphenyl	<5	<5	
	Tribromobiphenyl	<5	<5	
	Tetrabromobiphenyl	<5	<5	
	Pentabromobiphenyl	<5	<5	
	Hexabromobiphenyl	<5	<5	
	Heptabromobiphenyl	<5	<5	
	Octabromobiphenyl	<5	<5	
	Nonabromobiphenyl	<5	<5	
	Decabromobiphenyl	<5	<5	
	Sum of detected PBBs	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	Sum of PBDEs < 1000
	Dibromodiphenyl ether	<5	<5	
	Tribromodiphenyl ether	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	
	Pentabromodiphenyl ether	<5	<5	
	Hexabromodiphenyl ether	<5	<5	
	Heptabromodiphenyl ether	<5	<5	
	Octabromodiphenyl ether	<5	<5	
	Nonabromodiphenyl ether	<5	<5	
	Decabromodiphenyl ether	<5	<5	
	Sum of detected PBDEs	<50	<50	

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 001+009+011	Sample 005	Sample 007
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 008	Sample 013	Sample 018
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	136	552
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 020	Sample 023+033+161	Sample 027
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	407	<50	60.5
RoHS Requirement		Each < 1000		

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 029	Sample 030	Sample 035
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	258
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 036+037+038+039+040	Sample 042+045+061+062+067	Sample 044
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	89.3	113	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 068	Sample 071+077+078+084+091	Sample 085+323
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 089+117+118 +119+120	Sample 093+097+098 +099+102	Sample 103+104+105 +113+114
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	64.2	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 115	Sample 116	Sample 121+122+124 +125+126
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 123	Sample 127+128+129 +130+131	Sample 132+133+134 +135+136
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 138+142+143 +148+151	Sample 145	Sample 152+153+154 +155+159
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	149
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	88.2
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 167+198+199 +200+213	Sample 179+180+181 +182+183	Sample 184+188+221 +222+241
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	53.0
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 186+316+330 +333	Sample 189+192+193 +195+197	Sample 191
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

- Note 1. "<" denotes less than
2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 218+219+242 +243+244	Sample 225+226+237	Sample 236+250+253 +269+284
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	59.1	<50	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 245+287+288 +289+290	Sample 247+248+251 +252+254	Sample 249
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 255+270+271 +275+276	Sample 285+303+312 +317+320	Sample 292+293+294 +295+296
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

- Note 1. "<" denotes less than
2. "mg/kg" denotes milligram per kilogram

3.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

[Reporting Limit = 50mg/kg]

Test Item	CAS No.	Result [mg/kg]		
		Sample 297+299+300 +302+305	Sample 306+307+308 +309+310	Sample 314+315+352 +353+359
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	75.8	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]		
		Sample 321+325+337 +338+339	Sample 340+341+347 +349+355	Sample 360+361+378 +390
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50	<50
RoHS Requirement		Each < 1000		

Test Item	CAS No.	Result [mg/kg]	
		Sample 362+364+368+ 375+377	Sample 381+382+383+ 392
Di-iso-butyl Phthalate (DIBP)	84-69-5	<50	<50
Di-butyl Phthalate (DBP)	84-74-2	<50	<50
Butyl-benzyl Phthalate (BBP)	85-68-7	<50	<50
Di-(2-ethyl-hexyl) Phthalate (DEHP)	117-81-7	<50	<50
RoHS Requirement		Each < 1000	

Note 1. "<" denotes less than

2. "mg/kg" denotes milligram per kilogram

- END OF THE TEST REPORT --