



Test Report No.: 68.413.24.0208.02

Rev.: 01

Dated: 2024-12-11

Applicant: SHENZHEN GREPOW BATTERY CO., LTD.

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Sample Description: Jump Starter

Model No.: J2250 PRO

Sample Received Date: 2024-10-09, 2024-10-21, 2024-11-27, Shenzhen

Test Period: From 2024-10-09 to 2024-10-24, From 2024-11-27 to 2024-12-03, Shenzhen

Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples

Test Results: Refer to following page(s)

Remark: The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:



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Project Handler

Scarlett Liang
Designated Reviewer

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Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, pass or fail verdicts are given based on the measured values without consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as pass or fail.

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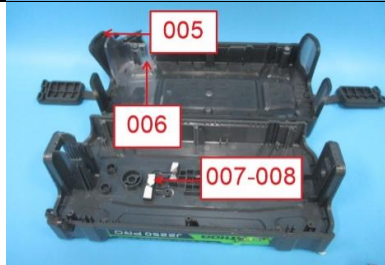
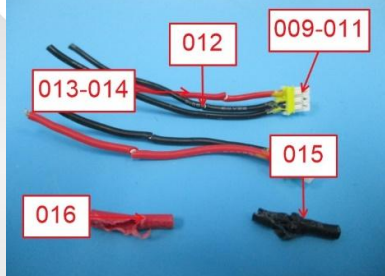


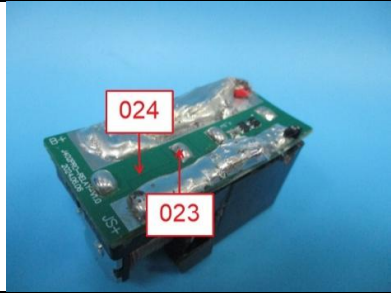
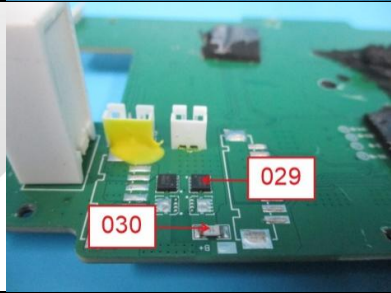
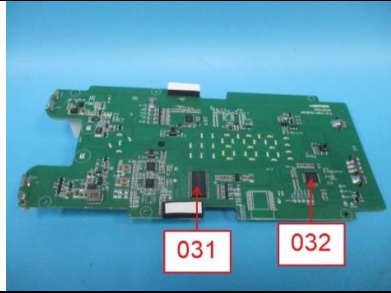
SUMMARY OF TEST RESULTS

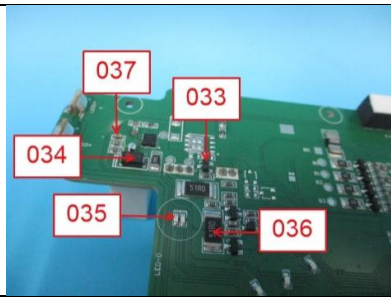
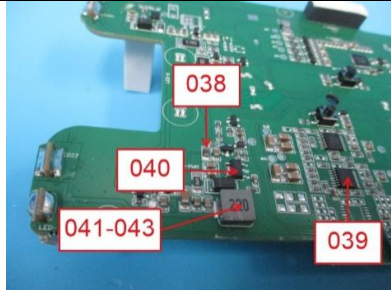
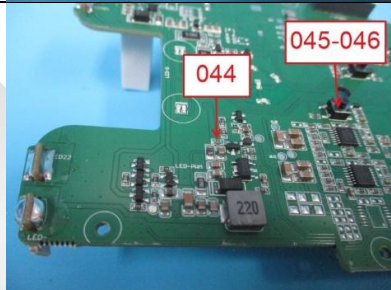
No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS	

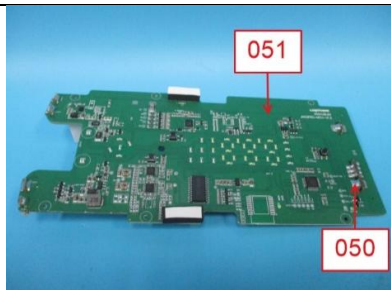
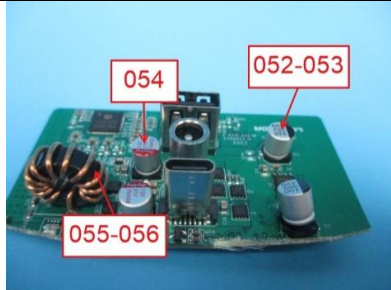
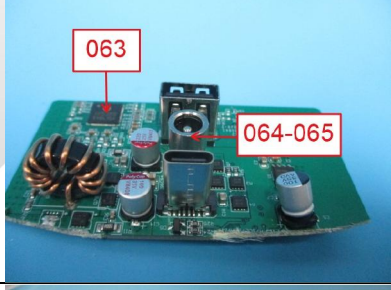


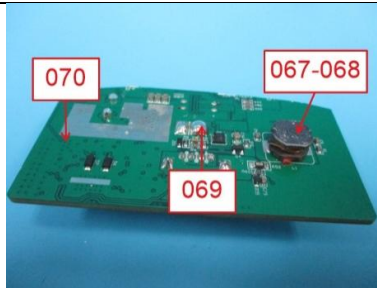
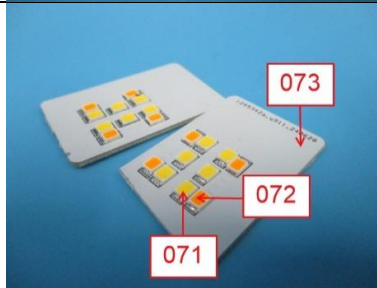
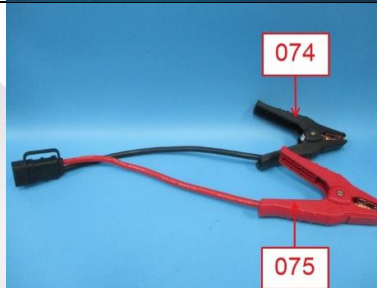
1. TESTED SUBJECT DESCRIPTION

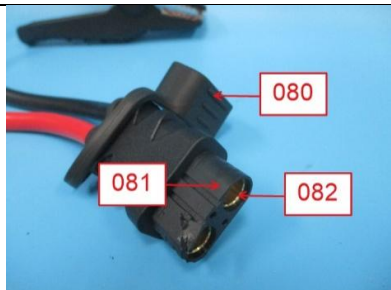
Test No.	Sample No.	Tested Material Description	Photo
T1	001	Grey plastic case	
T2	002	Black/white/red coated transparent plastic with adhesive	
T3	003	Black/green printed white paper sticker	
T4	004	Multi-color coated transparent/white plastic with adhesive	
T5	005	Black soft plastic housing	
T6	006	Transparent plastic plate	
T7	007	White foam with adhesive	
T8	008	Black foam with adhesive	
T9	009	White plastic case (Connector)	
T10	010	Silvery metal pin (Connector)	
T11	011	Beige glue	
T12	012	Black soft plastic wire jacket	
T13	013	Red soft plastic wire jacket	
T14	014	Silvery metal wire	
T15	015	White printed black soft plastic sleeve	
T16	016	Black printed red soft plastic sleeve	
T17	017	Black plastic case (Port)	
T18	018	Golden metal pin (Port)	
T19	019	Silvery metal solder (Port)	
T20	020	Grey printed black plastic shell (Relay)	
T21	021	Coppery/Silvery metal contact point (Relay)	
T22	022	Coppery metal plate (Relay)	

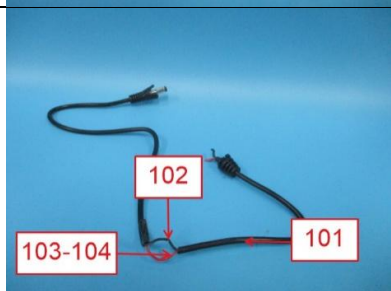
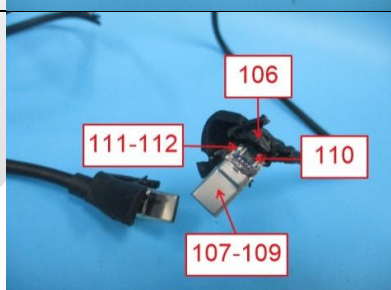
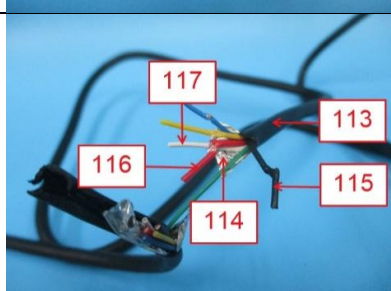
Test No.	Sample No.	Tested Material Description	Photo
T23	023	Silvery metal solder	
T24	024	Green PCB	
T25	025	White plastic case (Port)	
T26	026	Silvery metal pin (Port)	
T27	027	Black printed white ceramic	
T28	028	Silvery metal pin	
T29	029	Black body with pin (EC)	
T30	030	Green printed white body (SMD resistor)	
T31	031	Black body with pin (EC)	
T32	032	Black body with pin (EC)	

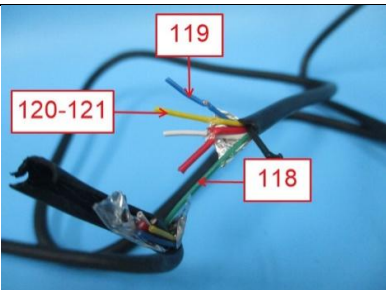
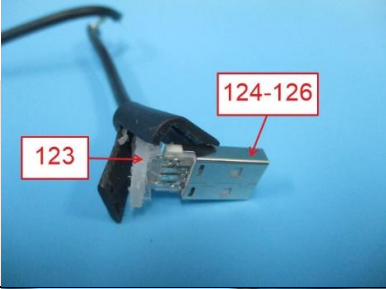
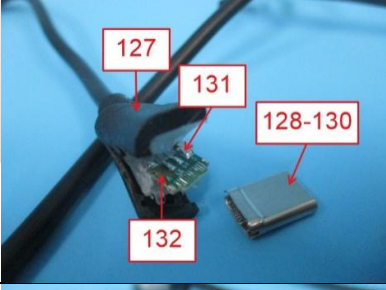
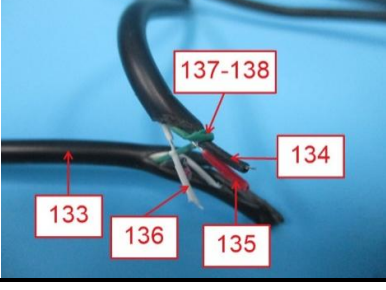
Test No.	Sample No.	Tested Material Description	Photo
T33	033	Black body with pin (EC)	
T34	034	Black body with pin (Diode)	
T35	035	Transparent white LED body	
T36	036	White printed black body (SMD resistor)	
T37	037	Brown/silvery body (SMD capacitor)	
T38	038	Black/silvery body (SMD capacitor)	
T39	039	Black body with pin (EC)	
T40	040	Black body with pin (EC)	
T41	041	Black printed grey magnet (Inductor)	
T42	042	Copper metal coil (Inductor)	
T43	043	Silvery metal holder (Inductor)	
T44	044	White printed green body (SMD resistor)	
T45	045	Black plastic (button)	
T46	046	Silvery metal (button)	
T47	047	Black body with pin (EC)	
T48	048	Black body with pin (EC)	
T49	049	Yellow LED body	

Test No.	Sample No.	Tested Material Description	Photo
T50	050	Silvery metal solder	
T51	051	Green PCB	
T52	052	Black printed silvery metal body (capacitor)	
T53	053	Black plastic holder (capacitor)	
T54	054	Red printed silvery metal body (capacitor)	
T55	055	Black coated black magnet (Inductor)	
T56	056	Copper metal coil (Inductor)	
T57	057	Silvery metal case (USB interface)	
T58	058	Black plastic inner (USB interface)	
T59	059	Silvery metal pin (USB interface)	
T60	060	Silvery metal case (C interface)	
T61	061	Black plastic inner (C interface)	
T62	062	Silvery metal pin (C interface)	
T63	063	Black body with pin (EC)	
T64	064	Silvery metal case (Port)	
T65	065	Silvery metal pin (Port)	
T66	066	Black plastic holder (Port)	

Test No.	Sample No.	Tested Material Description	Photo
T67	067	Black printed black magnet (Inductor)	
T68	068	Copper metal coil (Inductor)	
T69	069	Silvery metal solder	
T70	070	Green PCB	
T71	071	Yellow/white LED body	
T72	072	Orange/white LED body	
T73	073	Grey PCB	
T74	074	Black plastic case (Clamp)	
T75	075	Red plastic case (Clamp)	
T76	076	Copper metal plate (Clamp)	
T77	077	Silvery metal shaft (Clamp)	
T78	078	Silvery metal spring (Clamp)	
T79	079	Silvery metal solder (Clamp)	

Test No.	Sample No.	Tested Material Description	Photo
T80	080	Black soft plastic plug	
T81	081	Black plastic case (Plug)	
T82	082	Golden metal pin (Plug)	
T83	083	White printed black soft plastic wire jacket	
T84	084	White printed red soft plastic wire jacket	
T85	085	Silvery metal wire	
T86	086	Black plastic case	
T87	087	Silvery metal plate	
T88	088	Silvery metal solder	
T89	089	Silvery metal ring	
T90	090	Silvery metal thread	
T91	091	Silvery metal cap (Fuse)	
T92	092	Transparent glass (Fuse)	
T93	093	Silvery metal wire (Fuse)	
T94	094	Copper metal spring	

Test No.	Sample No.	Tested Material Description	Photo
T95	095	Black soft plastic housing (Plug)	
T96	096	Silvery metal case (Plug)	
T97	097	Silvery metal solder (Plug)	
T98	098	Black plastic holder (Plug)	
T99	099	Silvery metal pin (Plug)	
T100	100	Black soft plastic holder	
T101	101	White printed black soft plastic cable jacket	
T102	102	Black soft plastic wire jacket	
T103	103	Red soft plastic wire jacket	
T104	104	Silvery metal wire	
T105	105	Black soft plastic housing (C interface)	
T106	106	Black plastic holder (C interface)	
T107	107	Silvery metal case (C interface)	
T108	108	Black plastic inner (C interface)	
T109	109	Golden/silvery metal pin (C interface)	
T110	110	Black body with pin (C interface)	
T111	111	Silvery metal solder (C interface)	
T112	112	Blue PCB (C interface)	
T113	113	Black soft plastic cable jacket	
T114	114	Silvery plastic film	
T115	115	Black soft plastic wire jacket	
T116	116	Red soft plastic wire jacket	
T117	117	White soft plastic wire jacket	

Test No.	Sample No.	Tested Material Description	Photo
T118	118	Green soft plastic wire jacket	
T119	119	Blue soft plastic wire jacket	
T120	120	Yellow soft plastic wire jacket	
T121	121	Coppery metal wire	
T122	122	Black soft plastic housing (USB interface)	
T123	123	Translucent plastic holder (USB interface)	
T124	124	Silvery metal case (USB interface)	
T125	125	White plastic inner (USB interface)	
T126	126	Silvery metal pin (USB interface)	
T127	127	Black soft plastic housing (C interface)	
T128	128	Silvery metal case (C interface)	
T129	129	Black plastic inner (C interface)	
T130	130	Golden/silvery metal pin (C interface)	
T131	131	Silvery metal solder (C interface)	
T132	132	Green PCB (C interface)	
T133	133	White printed black soft plastic cable jacket	
T134	134	Black soft plastic wire jacket	
T135	135	Red soft plastic wire jacket	
T136	136	White soft plastic wire jacket	
T137	137	Green soft plastic wire jacket	
T138	138	Silvery metal wire	



Test No.	Sample No.	Tested Material Description	Photo
T139	139	Transparent brown plastic adhesive tape	
T140	140	Black coated silvery metal nut	
T141	141	Black coated silvery metal screw	
T142	142	Silvery metal screw	
T143	143	Black fabric sheet	
T144	144	Black fabric rope	
T145	145	Black fabric thread	





2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017. For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	BL	BL	BL	BL	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	BL	BL	BL	BL	BL
003	BL	BL	BL	BL	BL	BL	BL	BL	BL
004	BL	BL	BL	BL	BL	BL	BL	BL	BL
005	BL	BL	BL	BL	BL	BL	BL	BL	BL
006	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
007	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
008	BL	BL	BL	BL	BL	BL	BL	BL	BL
009	BL	BL	BL	BL	BL	BL	BL	BL	BL
010	BL	BL	BL	BL	NA	NA	NA	NA	NA
011	BL	BL	BL	BL	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	BL	BL	BL	BL	BL
013	BL	BL	BL	BL	BL	BL	BL	BL	BL
014	BL	BL	BL	BL	NA	NA	NA	NA	NA
015	BL	BL	BL	BL	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	BL	BL	BL	BL	BL
017	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
018	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
019	BL	BL	BL	BL	NA	NA	NA	NA	NA
020	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
021	BL	BL	BL	BL	NA	NA	NA	NA	NA
022	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
023	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
024	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
025	BL	BL	BL	BL	BL	BL	BL	BL	BL
026	BL	BL	BL	BL	NA	NA	NA	NA	NA
027	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
028	BL	BL	BL	BL	NA	NA	NA	NA	NA
029	BL	BL	BL	BL	BL	BL	BL	BL	BL
030	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
031	BL	BL	BL	BL	BL	BL	BL	BL	BL
032	BL	BL	BL	BL	BL	BL	BL	BL	BL
033	BL	BL	BL	BL	BL	BL	BL	BL	BL
034	BL	BL	BL	BL	BL	BL	BL	BL	BL
035	BL	BL	BL	BL	BL	BL	BL	BL	BL
036	BL	Inc. ^(a)	BL	OL ^(a)	BL	BL	BL	BL	BL
037	BL	BL	BL	BL	BL	BL	BL	BL	BL
038	BL	BL	BL	BL	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL	BL	BL	BL	BL
040	BL	BL	BL	BL	BL	BL	BL	BL	BL
041	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
042	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
043	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
044	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
045	BL	BL	BL	BL	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	NA	NA	NA	NA	NA
047	BL	BL	BL	BL	BL	BL	BL	BL	BL
048	BL	BL	BL	BL	BL	BL	BL	BL	BL
049	BL	BL	BL	BL	BL	BL	BL	BL	BL
050	BL	BL	BL	BL	NA	NA	NA	NA	NA
051	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
052	BL	BL	BL	BL	NA	NA	NA	NA	NA
053	BL	BL	BL	BL	BL	BL	BL	BL	BL
054	BL	BL	BL	BL	NA	NA	NA	NA	NA
055	BL	BL	BL	BL	NA	NA	NA	NA	NA
056	BL	BL	BL	BL	NA	NA	NA	NA	NA
057	BL	BL	BL	BL	NA	NA	NA	NA	NA
058	BL	BL	BL	BL	BL	BL	BL	BL	BL
059	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
060	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
061	BL	BL	BL	BL	BL	BL	BL	BL	BL
062	BL	BL	BL	BL	NA	NA	NA	NA	NA
063	BL	BL	BL	BL	BL	BL	BL	BL	BL
064	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
065	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
066	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
067	BL	BL	BL	BL	NA	NA	NA	NA	NA
068	BL	BL	BL	BL	NA	NA	NA	NA	NA
069	OL ^(a)	BL	BL	BL	NA	NA	NA	NA	NA
070	BL	BL	BL	BL	BL	BL	BL	BL	BL
071	BL	BL	BL	BL	BL	BL	BL	BL	BL
072	BL	BL	BL	BL	BL	BL	BL	BL	BL
073	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
074	BL	BL	BL	BL	BL	BL	BL	BL	BL
075	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
076	BL	BL	BL	BL	NA	NA	NA	NA	NA
077	BL	BL	BL	BL	NA	NA	NA	NA	NA
078	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
079	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
080	BL	BL	BL	BL	BL	BL	BL	BL	BL
081	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
082	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
083	BL	BL	BL	BL	BL	BL	BL	BL	BL
084	BL	BL	BL	BL	BL	BL	BL	BL	BL
085	BL	BL	BL	BL	NA	NA	NA	NA	NA
086	BL	BL	BL	BL	BL	BL	BL	BL	BL
087	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
088	BL	BL	BL	BL	NA	NA	NA	NA	NA
089	BL	BL	BL	BL	NA	NA	NA	NA	NA
090	BL	BL	BL	BL	NA	NA	NA	NA	NA
091	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
092	BL	BL	BL	BL	NA	NA	NA	NA	NA
093	BL	BL	BL	BL	NA	NA	NA	NA	NA
094	BL	BL	BL	BL	NA	NA	NA	NA	NA
095	BL	BL	BL	BL	BL	BL	BL	BL	BL
096	BL	BL	BL	BL	NA	NA	NA	NA	NA
097	BL	BL	BL	BL	NA	NA	NA	NA	NA
098	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
099	BL	BL	BL	BL	NA	NA	NA	NA	NA
100	BL	BL	BL	BL	BL	BL	BL	BL	BL
101	BL	BL	BL	BL	BL	BL	BL	BL	BL
102	BL	BL	BL	BL	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	BL	BL	BL	BL	BL
104	BL	BL	BL	BL	NA	NA	NA	NA	NA
105	BL	BL	BL	BL	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	BL	BL	BL	BL	BL
107	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
108	BL	BL	BL	BL	BL	BL	BL	BL	BL
109	BL	BL	BL	BL	NA	NA	NA	NA	NA
110	BL	BL	BL	BL	BL	BL	BL	BL	BL
111	BL	BL	BL	BL	NA	NA	NA	NA	NA
112	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
113	BL	BL	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	BL	BL	BL	BL	BL
116	BL	BL	BL	BL	BL	BL	BL	BL	BL
117	BL	BL	BL	BL	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	BL	BL	BL	BL	BL
119	BL	BL	BL	BL	BL	BL	BL	BL	BL
120	BL	BL	BL	BL	BL	BL	BL	BL	BL
121	BL	BL	BL	BL	NA	NA	NA	NA	NA
122	BL	BL	BL	BL	BL	BL	BL	BL	BL
123	BL	BL	BL	BL	BL	BL	BL	BL	BL



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
124	BL	BL	BL	BL	NA	NA	NA	NA	NA
125	BL	BL	BL	BL	BL	BL	BL	BL	BL
126	BL	BL	BL	BL	NA	NA	NA	NA	NA
127	BL	BL	BL	BL	BL	BL	BL	BL	BL
128	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
129	BL	BL	BL	BL	BL	BL	BL	BL	BL
130	BL	BL	BL	BL	NA	NA	NA	NA	NA
131	BL	BL	BL	BL	NA	NA	NA	NA	NA
132	BL	BL	BL	BL	BL	BL	BL	BL	BL
133	BL	BL	BL	BL	BL	BL	BL	BL	BL
134	BL	BL	BL	BL	BL	BL	BL	BL	BL
135	BL	BL	BL	BL	BL	BL	BL	BL	BL
136	BL	BL	BL	BL	BL	BL	BL	BL	BL
137	BL	BL	BL	BL	BL	BL	BL	BL	BL
138	BL	BL	BL	BL	NA	NA	NA	NA	NA
139	BL	BL	BL	BL	BL	BL	BL	BL	BL
140	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
141	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
142	BL	BL	BL	BL	NA	NA	NA	NA	NA
143	BL	BL	BL	BL	BL	BL	BL	BL	BL
144	BL	BL	BL	BL	BL	BL	BL	BL	BL
145	BL	BL	BL	BL	BL	BL	BL	BL	BL

Note:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2 and 2.3.



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

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Br	$X \leq (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X \geq (150+3\sigma)$
Pb	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Hg	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Br	$X \leq (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X \leq (500-3\sigma)$	$X > (500-3\sigma)$	NA

-Screening limits in mg/kg for regulated phthalates in various matrices

PHthalATES	BL	INCONCLUSIVE
DEHP	$X < 600$	$X \geq 600$
BBP	$X < 600$	$X \geq 600$
DBP	$X < 600$	$X \geq 600$
DIBP	$X < 600$	$X \geq 600$



2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet-visible spectrophotometer (UV-Vis).

[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 No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
018	--	--	--	--	2.95×10 ^{4(a)}
022	--	/	Negative	--	--
023	--	/	Negative	--	--
030	--	<10.0	/	--	--
036	--	<10.0	/	--	808.5
041	--	<10.0	/	--	--
042	--	/	Negative	--	--
043	--	/	Negative	--	--
044	--	<10.0	/	--	--
060	--	/	Negative	--	--
064	--	--	--	--	3.20×10 ^{4(a)}
065	--	--	--	--	3.23×10 ^{4(a)}
069	<2.0	--	--	--	--
078	--	/	Negative	--	--
079	--	/	Negative	--	--
082	--	--	--	--	2.68×10 ^{4(a)}
087	--	/	Negative	--	--
107	--	/	Negative	--	--
128	--	/	Negative	--	--
140	--	/	Negative	--	--
141	--	/	Negative	--	--
Unit	mg/kg	mg/kg	µg/cm²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative [#]	1000	1000

Note:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than



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- "Negative" denotes the absorbance value of sample is $< 0.10 \mu\text{g}/\text{cm}^2$, the sample is considered to be negative for Hexavalent Chromium.
- "##" According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- "(a)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".





2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]		RoHS Requirement [mg/kg]
		Sample 006+017+020	Sample 007	
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:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]		RoHS Requirement [mg/kg]
		Sample 024+051	Sample 066	
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:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]	RoHS Requirement [mg/kg]
		Sample 073+112	
PBBs	Monobromobiphenyl	<5	Sum of PBBs 1000
	Dibromobiphenyl	<5	
	Tribromobiphenyl	<5	
	Tetrabromobiphenyl	<5	
	Pentabromobiphenyl	<5	
	Hexabromobiphenyl	<5	
	Heptabromobiphenyl	<5	
	Octabromobiphenyl	<5	
	Nonabromobiphenyl	<5	
	Decabromobiphenyl	<5	
	Sum of detected PBBs	<50	
PBDEs	Monobromodiphenyl ether	<5	Sum of PBDEs 1000
	Dibromodiphenyl ether	<5	
	Tribromodiphenyl ether	<5	
	Tetrabromodiphenyl ether	<5	
	Pentabromodiphenyl ether	<5	
	Hexabromodiphenyl ether	<5	
	Heptabromodiphenyl ether	<5	
	Octabromodiphenyl ether	<5	
	Nonabromodiphenyl ether	<5	
	Decabromodiphenyl ether	<5	
	Sum of detected PBDEs	<50	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]		RoHS Requirement [mg/kg]
		Sample 075	Sample 081+098	
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:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than

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APPENDIX I:

Photos of submitted products



Jump Starter (J2250 PRO)

-----End of Report-----

