TEST REPORT

Report No.: DL-20230203016R

Applicant: SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD.

Address: 201, No.8 Building, Jinfanghua Electricity Industrial park, Bantian St., Longgang

Dist., Shenzhen, China

Manufacturer: Dongguan JOYROOM Electronic Technology Co., Ltd

Address: 4-6Floor, No.2 Assembly building, Long Bu road, Longbeiling, Tangxia, Dongguan

Product Name: Digital Display Car Charger

Trade Mark: JOYROOM

Model Number: JR-CCD02

Series Model No.: JR-CCD01

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoging Road, Baolong Industrial Zone,

Baolong Street, Longgang District, Shenzhen, Guangdong, China

Date of Receipt: Feb.03, 2023

Date of Test: Feb.03, 2023 - Feb.07, 2023

Date of Report: Feb.07, 2023

Test Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Test Standard: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion:

As requested by applicant, the submitted sample was were tested, with is listed as specimen description in the following page. the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Prepared (Engineer): Cheney Wei

Approved (Manager): Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products it is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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Version

Version No.	Date	Description
00 00	Feb.07, 2023	Original

Report No.: DL-20230203016R

Remark:

- (1) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There are the results on total Cr while test items on restricted substances Cr(VI)
- (2) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg),UV-Vis (for Cr(VI) and GC-MS (for PBBs,PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit:mg/kg)

Element	Polymer Materials	Metal Materials	Composite Materials
Cd	BL≤70-3σ <x<130+3σ≤ol< td=""><td>BL≤70-3σ<x<130+3σ≤ol< td=""><td>BL≤50-3σ<x<150+3σ≤ol< td=""></x<150+3σ≤ol<></td></x<130+3σ≤ol<></td></x<130+3σ≤ol<>	BL≤70-3σ <x<130+3σ≤ol< td=""><td>BL≤50-3σ<x<150+3σ≤ol< td=""></x<150+3σ≤ol<></td></x<130+3σ≤ol<>	BL≤50-3σ <x<150+3σ≤ol< td=""></x<150+3σ≤ol<>
S Db	BL≤700-3σ <x<< td=""><td>BL≤700-3σ<x<< td=""><td>BL≤500-3σ<x<< td=""></x<<></td></x<<></td></x<<>	BL≤700-3σ <x<< td=""><td>BL≤500-3σ<x<< td=""></x<<></td></x<<>	BL≤500-3σ <x<< td=""></x<<>
Pb	1300+3σ≤OL	1300+3σ≤OL	1500+3σ≤OL
(L)	BL≤700-3σ <x<< td=""><td>BL≤700-3σ<x<< td=""><td>BL≤500-3σ<x<< td=""></x<<></td></x<<></td></x<<>	BL≤700-3σ <x<< td=""><td>BL≤500-3σ<x<< td=""></x<<></td></x<<>	BL≤500-3σ <x<< td=""></x<<>
Hg	1300+3σ≤OL	1300+3σ≤OL	1500+3σ≤OL
Br	BL≤300-3σ <x< td=""><td>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	BL≤250-3σ <x< td=""></x<>
Cr	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>

- (a) BL=Below Limit, OL=Over Limit, X=Inconclusive, LOD=Limit of Detection,---=Not regulated.
- (b)The XRF screening test for RoHS elements- the reading may be different to actual content in the sample be of non-uniformity composition
- (3) Chemical Method
- ① With reference to IEC 62321-5:2013, determination of Cadmium, Lead by ICP-OES.
- ② With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.
- ③ With reference to IEC 62321-7-1:2015 ♣ IEC 62321-7-2:2017, determination of Hexavalent Chromium by Colorimetric method using UV-Vis.
- ④ With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.
- (5) With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.
- (4) (a) mg/kg=0.0001%,MDL=MDL=Method Detection Limit,(c)ND=Not Detected(<MDL),
 - ---=Not Regulated
 - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg						
MDL	10	10	10	100	100	100	100

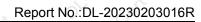
The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI) for polymer and composite sample is 10 mg/kg

MDL of Cr(VI) for metal sample is 0.10ug/cm²

- (c) ▼=Metal sample
- a. The sample is negative for Cr⁶⁺ if Cr⁶⁺ is N.D. (below the limit 0.10ug/cm²⁾. The coating is considered a non Cr⁶⁺ based coating.
- b. The sample positive for Cr⁶⁺ if the Cr⁶⁺ concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr⁶⁺.
- c.The result between 0.10ug/cm² and 0.13ug/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.

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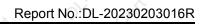




Tested Sample/Part Description:

Speci	imen No.	Component Description(s)	Style
	01	Silver metal	Co. x - O.
	02	Black plastic	(CON X- O
	03	Silver plastic	ON CON-
	O4	Black plastic	O, Go, X
	05	Silver metal pin	er Or - Cer
	06	Patch capacitance	, cor
	07	Black triode	or est - or
	08		
	09	Patch resistance	Di
	10	Green PCB	
	11.	Silver solder	Cert Original Control
	12	Silver spring	Cor - V
	13	Red metal conductor	Or Cor-
	14	Silver metal	Or Car
	15	Silver metal pin	ek Or-Cor
	16	Silver metal	
	17	Black rubber heat shrink tube	1,0° 2,1 - 01
	18	Yellow metal conductor	
	19	Black ceramic	OV. Co.
	20	Silver metal	
	21	Silver metal pin	Cet V
	22	Patch element	Cott
	23	Patch capacitance	Oli Cert - O.
	24		Olice Gent
	25	Silver solder	x or - cor
	26	Green PCB	
	27	Silver metal	7. Co, x - 4/2
	28	Black plastic	D. Co. Y
	29	Green PCB	O, Co,
	30	Silver solder	· Ox -Cox

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Test Results:

The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
χ <	Pb	BL	O		· O.
3	Cd	BL	<u> </u>	O. Co.	. <
- O.	Hg	O BL		x - 0 ^V	cert.
01	Cr(Cr ⁶⁺)	BL	<u>, D</u>	Pass	
, Co	Br(PBBs&PBDEs)	<u>Y</u> , 9	× >	- ex	, Co
\Diamond	DBP,BBP,DEHP,DIBP	× 0	CO	, O	O, Co,
0	Pb	BL	V - 2 ²	Y ,00° ,	0
	Cd	BL	· · · · · · · · · · · · · · · · · · ·	Or Coll	· ·
	Hg	BL ₂	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		S. O.
⊘`02 ×	Cr(Cr ⁶⁺)	BL		Pass	
	Br(PBBs&PBDEs)	BL Ø		A OV	CONT
	DBP,BBP,DEHP,DIBP	0	N.D.	, Co.	or con
7	Pb	BL	, O	COST	
	Cd	BL O	Ç®` ;	OV -oth	, Ce
X <	Hg	BL.	Or -or	¥ 50°	
03	Cr(Cr ⁶⁺)	BL	~	Pass	1
	Br(PBBs&PBDEs)	O BL		× OV	C.O.
V. X	DBP,BBP,DEHP,DIBP	<u> </u>	N.D.	S	
), Če,	Pb	BL	, O	- 0/2	,00
	Cd	≿ BL ◇	×	V. X	Or Col
	Hg	BL		O. Co.	
04	Cr(Cr ⁶⁺)	BL	, , , , , , , , , , , , , , , ,	Pass	Y
	Br(PBBs&PBDEs)	OL	N.D.		Y O'
C _o ,	DBP,BBP,DEHP,DIBP	<u>0</u>	N.D.	. ,	×
C.O.	Pb	BL O	~	X O	C. C.
	Cd	BL	V		or - or
V O	× Hg V	BL	O x O	COL	V
05	Cr(Cr ⁶⁺)	BL 🔍	C ^O	Pass	Q*1 Ge
x <	Br(PBBs&PBDEs)	- 	~ <u>~ e</u> ř	,00	OV.
	DBP,BBP,DEHP,DIBP	00		O, Ce,	
-05	Pb	BL.	<u> </u>	× OV	- et
, X	Cd C	BL	& <u>-0</u> 3	3	
) Col	Hg	BL	y 0	0,	, Co., "
06	Cr(Cr ⁶⁺)	BL O	V	Pass	Or I cell
	Br(PBBs&PBDEs)	BL		Col	
	DBP,BBP,DEHP,DIBP	- OT	N.D.	or con	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
8	Pb	BL			-K 0
O	Cd	BL	<u></u>	·	ν.
	Hg	BL O	C	× 0	Cer
07	Cr(Cr ⁶⁺)	BL	O	Pass	1 /
	Br(PBBs&PBDEs)	BL	, OV	- ex	,,00
	DBP,BBP,DEHP,DIBP	O	N.D.	~ · · · · · · · · · · · · · · · · · · ·	Q C3
	יטוטוי, דו ושט, וטט, וטט	-0`	IN.D.	O. O.	

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Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
	Pb C	BL	/	,Co,	0 (
	Cd	⊘ BL	x	Or Col	
× 00	○ Hg	BL	O, Go,		. ~
08	Cr(Cr ⁶⁺)	BL	OV con	Pass	\ \ \ \ \ \
	Br(PBBs&PBDEs)	BLO		X O	Co
	DBP,BBP,DEHP,DIBP	o r	N.D.	× 0	C. O. T.
	Pb	BL	× ×	Co	
	Cd C	BL	. × <	o' cet	Ç
	Hg	∂BL	D 082		Or
09	Cr(Cr ⁶⁺)	S BL x	OL cet	Pass	× / 0
	Br(PBBs&PBDEs)	BL		, O'	
	DBP,BBP,DEHP,DIBP	√ <u></u> - 8	N.D.	, OV	-ot
-00	Pb	BL	× V	COS Y	~ ~
	Cd	BL	Ce, V	- ot	O. Co.
	Hg	⇒ BL	, V	S X	OV 69
10	Cr(Cr ⁶⁺)	BL		Pass	1
	Br(PBBs&PBDEs)	OL	N.D.	O	
	DBP,BBP,DEHP,DIBP	OL of	N.D.		1
Ò _{o.}	Pb	BL	N.D.		,Co x
	Cd	BL		× 0	Cec
	Hg	BL BL	- ox	So, ×	OV - er
11	Cr(Cr ⁶⁺)	BL	~ · · · · · · · · · · · · · · · · · · ·	Pass	1
	Br(PBBs&PBDEs)	DL .	Ò, Č <u>o,</u>	OV' -OK	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	DBP,BBP,DEHP,DIBP	~~~ ×	Or - Cor	7,00	× 0
.0		BL		- O'	· Ø`
	Pb			X O	COL
	Cd	BL		Ce)	N' gir
12 🔎	Hg Cr(Cr6t)	BL	,C° ,	Pass	P
	Cr(Cr ⁶⁺)	BL O	Col		O, C
	Br(PBBs&PBDEs)	~	OV COX	, Ço	
	DBP,BBP,DEHP,DIBP	CBI		- O O	
	Pb	BL	V ,C	× OV	- OK
	Cd	BLO	. TO 6	2	
130	Hg	BL	o	Pass	SI .
	Cr(Cr ⁶⁺)	BL O	Cer	\(\frac{1}{2}\)	Or con
	Br(PBBs&PBDEs)	·	N' OF	Co,	0
	DBP,BBP,DEHP,DIBP		Υ <u>΄΄</u>	or ex	V
	Pb	BL	OrCor		City Or
	Cd	BL	, oth	, ,	X
14	Hg	SBL S	<u> </u>	Pass	C 1
0	Cr(Cr ⁶⁺)	BL		Y	or cet
	Br(PBBs&PBDEs)		, O	Cert	
	DBP,BBP,DEHP,DIBP	× \(\rangle\)	Co	15 X	O. C.

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Shenzhen DL Testing Technology Co., Ltd.

Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
	Pb Pb	BL	/	Ç	O ^V - c ^g
	Cd	BL	x	Or Cell	
× <	Hg	BĽ	O, C o,		
15	Cr(Cr ⁶⁺)	BL	O ^V ce ^t	Pass	_ / <
Col	Br(PBBs&PBDEs)	O Col		× 0,	Co
DY COR	DBP,BBP,DEHP,DIBP	O Y	<u> </u>	x. 0	- et
	Pb O	BL		Co	N at
	Cd C	BL		V COX	, Ço
	Hg	∛BL			\Diamond_{\wedge} (
16	Cr(Cr ⁶⁺)	S BL ∗	OV ext	Pass	×
COCC	Br(PBBs&PBDEs)		1		S. C.
- 01	DBP,BBP,DEHP,DIBP	0× 6		× OV	- ex
	Pb Pb	BL	O	300	
, o	Cd	BL	, N	- OK	,,,
	Hg	∴ BL	Cer	~ · ·	O, Ce
17	Cr(Cr ⁶⁺)	© BL	OVoth	Pass	
	Br(PBBs&PBDEs)	BL	× 50°	Q CO	
- C.X	DBP,BBP,DEHP,DIBP	0 or	N.D.		- of
, C	Pb C	BL	2 -D C		<i>S S</i>
), Co,	Cd	BL	§ OV	- 0x	Ò,
Q\	Hg	≿ BL ♡	×	,	Or Col
18	Cr(Cr ⁶⁺)	BL		Pass	
	Br(PBBs&PBDEs)	c 0	×	Or con	V
A. A.	DBP,BBP,DEHP,DIBP	i ^t	O,C ₀ ,	07.	ex O
	Pb	BL	CONTRACTOR		
Co	Cd	BL O	0	O'T	Co.
O	Hg	BL	·	<u>_</u> x	or con
19	Cr(Cr ⁶⁺)	BL	× 0°	Pass	
	Br(PBBs&PBDEs)	-0'	x	Or con	,00
X .	DBP,BBP,DEHP,DIBP	<u> </u>	Q, ^Q ₀ ,		
X	Pb	BL	OV OK	7 0	× 0
Col	Cd	BLO	-		Co.
N no col	Hg	BL	<u> </u>	×- 0	COL
20	Cr(Cr ⁶⁺)	BL	, — O _V	Pass	
	Br(PBBs&PBDEs)	· \		i coit	,00
\bigcirc	DBP,BBP,DEHP,DIBP	×	O, Co,	OV. OK.	O, (
×	Pb	BL	~~~.er	7 ,00	× 0×
cer	Cd	BL	, , , , , , , , , , , , , , , , , , , 	O, C	0
-eit	Hg	BL	<u> </u>	x = 0\(^2\)	cor.
21	Cr(Cr ⁶⁺)	BL	~ O	Pass	
O. C.	Br(PBBs&PBDEs)		, ov	- ex	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	DBP,BBP,DEHP,DIBP	× 0	(CE		Or Ce

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Shenzhen DL Testing Technology Co., Ltd. Report No.: DL-20230203016R Results of X-ray Conclusion Sample Part No. Element Screening chemical test on RoHS EU Resubmitted Pb BLCd BL Hg BĽ 22 **Pass** Cr(Cr6+) ΒL Br(PBBs&PBDEs) BLDBP,BBP,DEHP,DIBP N.D. Pb BLCd BL Hg BL 23 Pass Cr(Cr6+) BL Br(PBBs&PBDEs) BL DBP,BBP,DEHP,DIBP N.D. Pb BL Cd BL Hg BL 24 Pass Cr(Cr6+) BL Br(PBBs&PBDEs) BL DBP,BBP,DEHP,DIBP N.D. Pb BL Cd BL Hg BL25 Pass Cr(Cr6+) BLBr(PBBs&PBDEs) DBP,BBP,DEHP,DIBP Pb BL Cd BL Hg BL 26 **Pass** Cr(Cr⁶⁺) BLBr(PBBs&PBDEs) OL N.D.× DBP,BBP,DEHP,DIBP N.D. Pb BL Cd BL Hg BL 270 Pass Cr(Cr6+) N.D. OL Br(PBBs&PBDEs) DBP,BBP,DEHP,DIBP Pb BL Cd BL Hg BL 28 **Pass** Cr(Cr6+) BL Br(PBBs&PBDEs) BL

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N.D.

DBP,BBP,DEHP,DIBP



	Shenzhen DL Testing Technological	ogy Co., Ltd. X-ray	Results of	Conclusion	L-20230203016 Sample
Part No.	Element	Screening	chemical test	on RoHS EU	Resubmitted
	Pb C	BL O	/	, O	0,
	Cd C	BL Š		Or Col	0
20	Hg O	BL	e e	Door 6	,
29	Cr(Cr ⁶⁺)	BL	0 cor	Pass	
	Br(PBBs&PBDEs)	OL	N.D.	× 0,	Co. *
	DBP,BBP,DEHP,DIBP	\Rightarrow	N.D.	× 0	COL
	Pb C	BL V	V	Ç	0 - 0 ¹
	Cd C	BL	<	y cer	V
00	Hg	BL	O, Co,		\Diamond
30	Cr(Cr ⁶⁺)	BL	~ ce ^k	Pass	
	Br(PBBs&PBDEs)) - er	- A	, O _Y C	© I
	DBP,BBP,DEHP,DIBP	0× 0	<u> </u>	× OV	- OK

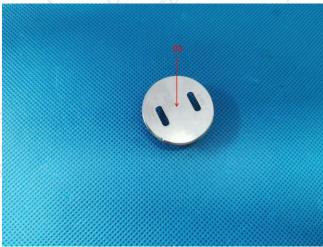
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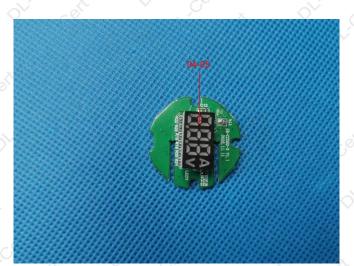


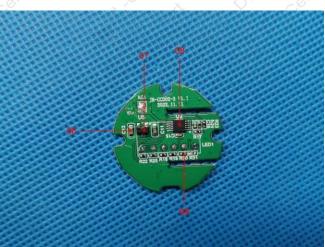
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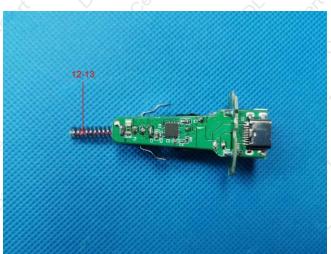


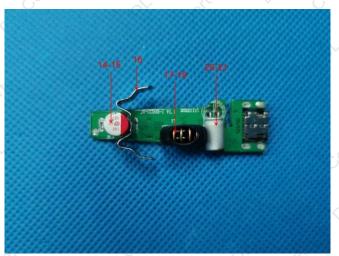


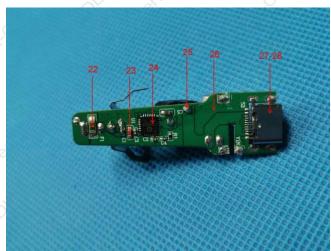


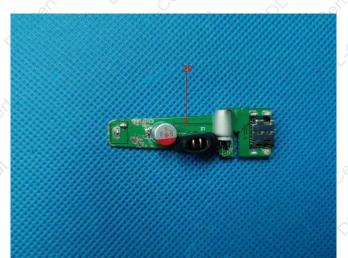


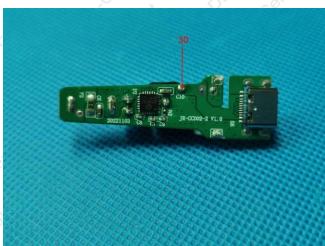


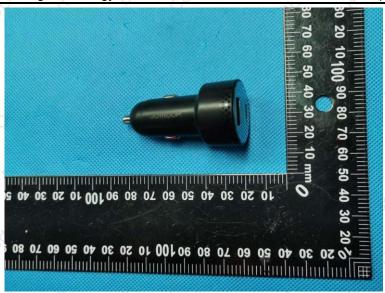












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