

## **Test Report**

Applicant: DONGGUAN LIDEA ELECTRONICS CO., LTD. Address: Room 901, Building 2, No. 30 Fumin South Third Road, Baopi, Dalang Town, Dongguan City, Guangdong Province, P.R. China Report on the submitted sample(s) said to be: Sample Name :Button Lithium-ion Cell :LIR1254、LIR640、LIR654、LIR7840、LIR7854、LIR840、LIR854、LIR940、 Sample Model LIR1040、LIR1045、LIR1054、LIR1140、LIR1154、LIR1240、LIR1254、 LIR1454、LIR1654; LDA5254、LDA5840、LDA5853、LDA5854、LDA58100、LDA58135、LDA640、 LDA650、LDA654、LDA65180、LDA740、LDA7840、LDA7854、LDA78100、 15.35 LDA78130、LDA78150; LDA78200、LDA78220、LDA840、LDA854、LDA8558、LDA870、LDA940、 LDA954、LDA9540、LDA1040、LDA1045、LDA1054、LDA1070、LDA1140、 LDA1154、LDA11100; LDA1240、LDA1254、LDA12100、LDA1454、LDA1654、LIR1220、LIR1620、 LIR1632、LIR2016、LIR2025、LIR2032、LIR2040、LIR2050、LIR2430、 LIR2440、LIR2450、LIR2477、LIR3032、LIR3048 Trademark :N/A :DONGGUAN LIDEA ELECTRONICS CO., LTD. Manufacturer :Room 901, Building 2, No. 30 Fumin South Third Road, Baopi, Dalang Address Town, Dongguan City, Guangdong Province, P.R. China Sample Received Date : Dec.13, 2024 Testing Period : Dec.16, 2024 to Dec. 25, 2024 Test Method : 1.Screening test method: IEC62321-3-1:2013/XRF 2.Wet chemical test method Lead(Pb): IEC62321-5:2013/ICP-OES 1536 Cadmium(Cd): IEC62321-5:2013/ICP-OES Mercury(Hg): IEC62321-4:2013+A1: 2017/ICP-OES Hexavalent Chromium(CrVI): IEC62321-7-1:2015/UV-VIS and IEC62321-7-2:2017/UV-VIS Polybrominated Biphenyls (PBBs):IEC62321-6:2015 /GC-MS Polybrominated Biphenyl Ethers(PBDEs): IEC62321-6:2015 /GC-MS 3. Phthalates: IEC62321-8:2017 /GC-MS **Test Results** : Refer to the next page(s). Report No.:NCJC240501584RR1-1 Page 1 of 7

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#### {1} Pb 、 Cd、 Hg、 CrVI、 PBBs、 PBDEs Test Results:

Part No.	Results	Cd	Pb	Hg	Cr <sup>6+</sup>	PBBs	PBDE s	Conclusion on RoHS
15	EDXRF	BL	BL	BL	BL	BL	BL	76,5
	Wet Chemical Testing	6	1				6	Comply

#### Remark:

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr6+.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb,Hg), UV-VIS (for CrVI) 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	Metal	Composite Materials
Cd	BL≤(70-3σ) <x<(130+30σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+30σ)≤ol< td=""><td>LOD<x<(150+30σ)≤ol< td=""></x<(150+30σ)≤ol<></td></x<(130+30σ)≤ol<></td></x<(130+30σ)≤ol<>	BL≤(70-3σ) <x<(130+30σ)≤ol< td=""><td>LOD<x<(150+30σ)≤ol< td=""></x<(150+30σ)≤ol<></td></x<(130+30σ)≤ol<>	LOD <x<(150+30σ)≤ol< td=""></x<(150+30σ)≤ol<>
Pb	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(500-3σ) <x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(500-3σ) <x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<>
Br	BL≤(300-3σ)<Χ	- 251	<sup>™</sup> BL≤(250-3σ) <x< td=""></x<>
Cr	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ
	125-0		

(c) BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection,

(d)The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition

(e) mg/kg = ppm = 0.0001%, N.D. = not detected (<MDL), --- = not conducted

(f) Unit and Method Detection Limit (MDL) in wet chemical test:

Test Items	Pb	Cd	Hg
Units	mg/kg	🐓 mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr6+ for polymer & composite sample is 2 mg/kg.

(g) According to IEC 62321:2008, result on Cr6+ for metal sample is shown as Positive/Negative.

Positive = Presence of Cr6+ coating, Negative = Absence of Cr6+ coating.

### {2} Phthalates Test Results

Test Method: Refer to EN14372:2004 and use GC-MS to perform the test

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Test Item	CAS No.	Test Method / Instrument	MDL (%)	Limit (%)
Dibutyl phthalate (DBP)	84-74-2	IEC 62321-8:2017 / GC-MS	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	IEC 62321-8:2017 / GC-MS	0.005	0.1
Bis-(2-ethylhexyl)phthal ate (DEHP)	117-81-7	IEC 62321-8:2017 / GC-MS	0.005	0.1
Di-iso-butyl ortho-phthalate (DIBP)	84-69-5	IEC 62321-8:2017 / GC-MS	0.005	0.1
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