



Pony Testing International Group

Test Report

NO.: MLC4FSDU72829744a

Date: Feb 15, 2017

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Applicant:

Address:

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: Lithium ion Battery

Sample Received Date: Jan 12, 2017

Testing Period: Jan 12, 2017 TO Feb 15, 2017

Reference Requested: RoHS Directive 2011/65/EU & (EU)2015/863 Annex II

Reference Method:

- 1.Review was performed for the samples disjonted from the submitted articles and the ralated test reports submitted by the Applicant
- 2.Tests was performed for the samples indicated by the photos in the report products.
 - (1) IEC 62321-3-1:2013,Screening by XRF Spectroscopy
 - (2) Wet Chemical Test Method

IEC 62321-5 Edition 1.0:2013,Lead Analysis is performed by AAS

Test Result: Please refer to next page(s)

Approved by:

Code: qxi87z



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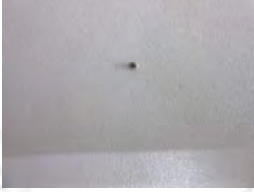
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Test Result (Unit: mg/kg)

Sample No.	Part Name	EDXRF		Chemical Testing		
		Test Item	Results ⁽¹⁾	Test Item	Result ⁽²⁾	Limit
U72829744-1 	Yellow tape	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	463	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-2 	Skin black line	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-3 	Skin red line	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-4 	Wire core	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000
U72829744-5 	SMD capacitors	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000



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Test Result (Unit: mg/kg)

Sample No.	Part Name	EDXRF		Chemical Testing		
		Test Item	Results ⁽¹⁾	Test Item	Result ⁽²⁾	Limit
U72829744-6 	U	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-8 	wafer	Pb	44.7	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000
U72829744-9 	PCB	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	69.6	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-10 	Battery sheath	Pb	11.4	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	122	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-11 	insulating tape	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000



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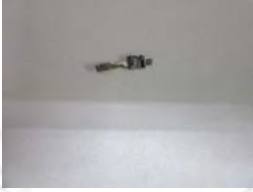
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Test Result (Unit: mg/kg)

Sample No.	Part Name	EDXRF		Chemical Testing		
		Test Item	Results ⁽¹⁾	Test Item	Result ⁽²⁾	Limit
U72829744-12 	Green tape	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-13 	positive plate	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000
U72829744-14 	aluminium foil	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000
U72829744-15 	Aluminum foil powder	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	20.5	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000
U72829744-16 	negative plate	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000



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Test Result (Unit: mg/kg)

Sample No.	Part Name	EDXRF		Chemical Testing		
		Test Item	Results ⁽¹⁾	Test Item	Result ⁽²⁾	Limit
U72829744-17 	copper foil	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	/	PBBs	/	1000
				PBDEs	/	1000
U72829744-18 	copper foil powder	Pb	N.D.	Pb	/	1000
		Cd	N.D.	Cd	/	100
		Hg	N.D.	Hg	/	1000
		Cr	N.D.	Cr ⁶⁺	/	1000
		Br	N.D.	PBBs	/	1000
				PBDEs	/	1000



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Remark

- (1) (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, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit:mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	—	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- (c) OL=Over Limit, BL=Below 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
 (2) (a) mg/kg=ppm=0.0001%, N.D.= not detected(<MDL), —= not conducted, /= not available.
 (b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb
Units	mg/kg
MDL	1

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr⁶⁺ for polymer & composite sample is 1 mg/kg.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr^{VI} represent status of the sample at the time of testing.

- (3) The original report which report No. is MLC4FSDU72829744 be replaced by this report, and it will be canceled immediately and doesn't have any legal validity. Please compliance with this report. Feb 24, 2017



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Measurement Flow-chart Of Chemical Testing

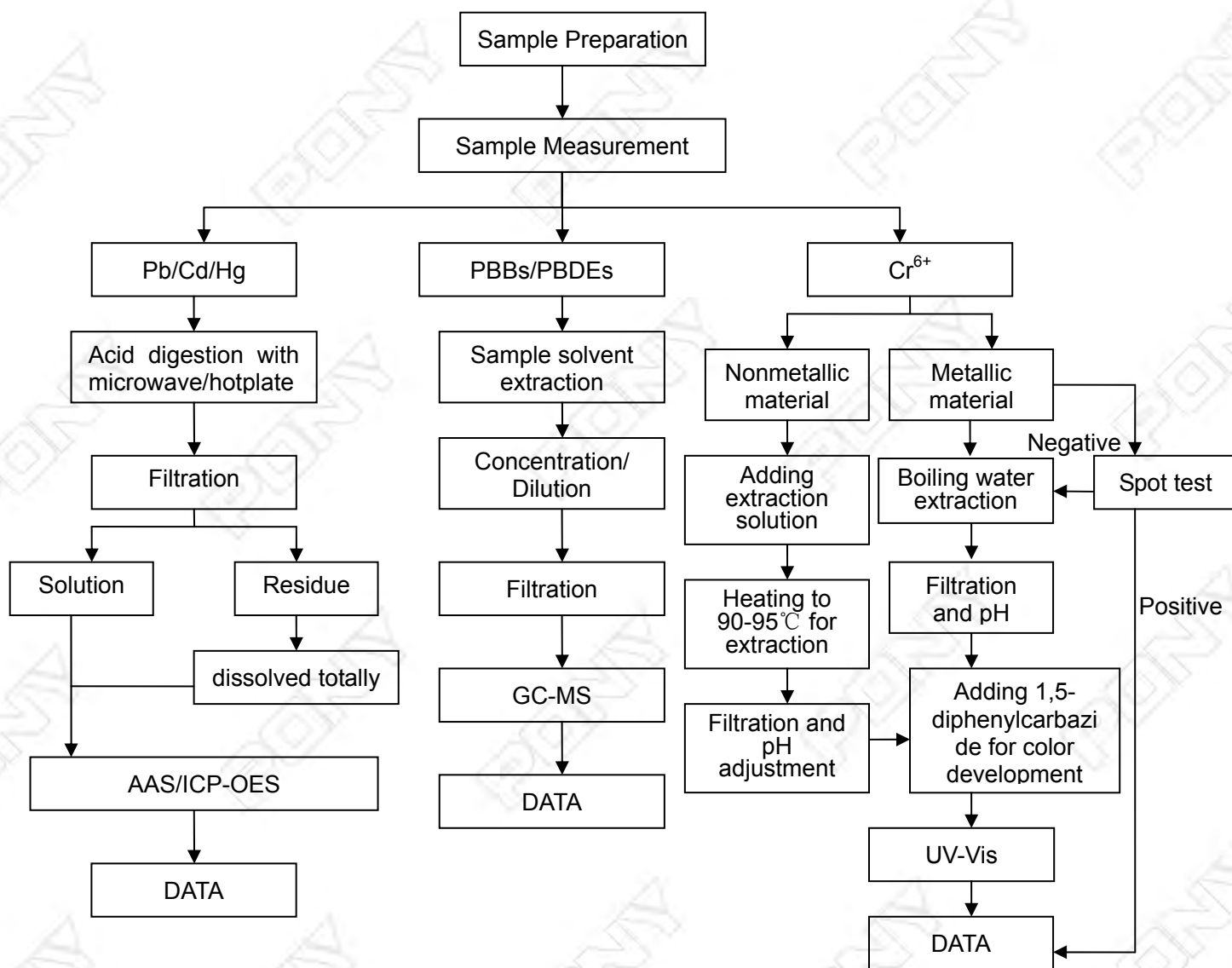
Tested by: Li Chuhua

Checked by: Yang Xin

Person in charge of the lab by: Zhao Yanyuan

These Samples Were Dissolved Totally By Pre-conditioning Method According To Below Flow Chart.

(Cr⁶⁺ And PBBs/PBDEs Test Method Excluded)



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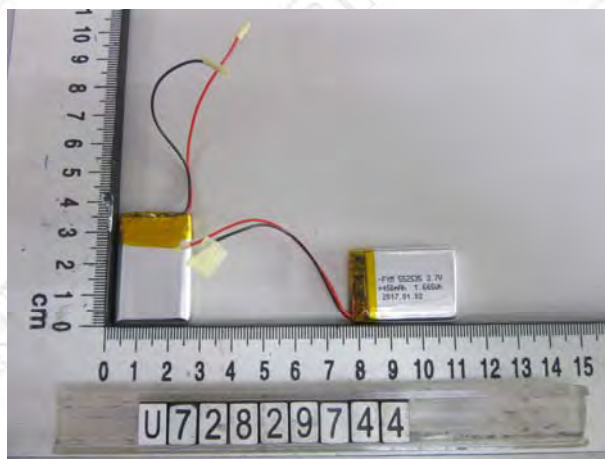
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Sample No. & Photo:



Pony authenticate the photo on original report only

End of Report



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