



# TEST REPORT

REPORT No.: **DTI201809276333A-1**

Date: 2018-10-19

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Applicant Company Name: **Shenzhen Jiuzhou Power Technology Co., Ltd**

Applicant Company Address: **4/F First Block, Jinmeiwei First Industrial park, West of Xingye Road, Heyi Shajing Town, Baoan District, Shenzhen, Guangdong 518104 CHINA**

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

Sample Name : AC/DC ADAPTER  
Model No. : JZB024-xxxxyyD, JZB024-xxxxyyX, JZB024-xxxxyyW  
Sample Receiving Date : September 27, 2018  
Testing Period : From September 27, 2018 to October 19, 2018  
Results : Please refer to next page(s).

## Summary of Test Results:

### TEST REQUEST

### CONCLUSION

A As specified by client, to determine Lead, Cadmium, Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl ethers (PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzylbutyl Phthalate (BBP), Dibutyl Phthalate (DBP) & Di-isobutyl ortho-phthalate (DIBP) contents in the submitted sample in accordance with Directive 2011/65/EU and its amendment directives 2015/863/EU (RoHS 2.0).

Pass

Signed for and on behalf of  
DTI

Approved by:

lab manager



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## Results:

### 1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black plastic shell	BL	BL	BL	BL	BL
2	Black plastic shell	BL	BL	BL	BL	BL
3	Black plastic part	BL	BL	BL	BL	BL
4	Black plastic part	BL	BL	BL	BL	BL
5	Silvery metal pin	X	BL	BL	BL	BL
6	Black plastic sheet	BL	BL	BL	BL	BL
7	Blue plastic (wire insulation)	BL	BL	BL	BL	BL
8	Red plastic (wire insulation)	BL	BL	BL	BL	BL
9	Black plastic shell	BL	BL	BL	BL	BL
10	Black plastic part (envelopment)	BL	BL	BL	BL	BL
11	Silvery metal pin	BL	BL	BL	BL	BL
12	Black plastic sheet w/white printing	BL	BL	BL	BL	BL
13	Yellow plastic tape	BL	BL	BL	BL	BL
14	Black plastic part	BL	BL	BL	BL	BL
15	Silvery metal sheet	BL	BL	BL	BL	BL
16	Silvery metal screw	BL	BL	BL	BL	BL
17	Black body	BL	BL	BL	BL	BL
18	Silvery metal pin	BL	BL	BL	BL	BL
19	Yellow plastic tape	BL	BL	BL	BL	BL
20	Black plastic part	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Yellow plastic (wire insulation)	BL	BL	BL	BL	BL
22	Black plastic sheet w/white printing	BL	BL	BL	BL	BL
23	Blue body	BL	BL	BL	BL	BL
24	Green body	BL	BL	BL	BL	BL
25	Green coating	BL	BL	BL	BL	BL
26	Metal wire	BL	BL	BL	BL	BL
27	Metal wire	BL	BL	BL	BL	BL
28	Green plastic sheet w/white printing	BL	BL	BL	BL	BL
29	Black body	BL	BL	BL	BL	BL
30	Silvery metal solder	BL	BL	BL	BL	BL
31	Green "PCB"	BL	BL	BL	BL	X
32	Black plastic part	BL	BL	BL	BL	BL
33	Black plastic (cable jacket)	BL	BL	BL	BL	BL
34	Black plastic (wire insulation)	BL	BL	BL	BL	BL
35	Red plastic (wire insulation)	BL	BL	BL	BL	BL
36	Black plastic part	BL	BL	BL	BL	BL
37	Silvery metal tube	BL	BL	BL	X	BL
38	Silvery metal solder	BL	BL	BL	BL	BL
39	Black plastic tube	BL	BL	BL	BL	BL
40	Silvery metal pin	BL	BL	BL	BL	BL
41	Black plastic tube	BL	BL	BL	BL	BL

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Remark:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit  
OL = Over Limit  
X = Inconclusive

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

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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	≤100
Lead (Pb)	≤1000
Mercury (Hg)	≤1000
Hexavalent Chromium (Cr(VI))	≤1000
Polybrominated biphenyls (PBBs)	≤1000
Polybrominated diphenylethers (PBDEs)	≤1000

(4) Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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## 2、 The Test Results of Chemical Method:

### Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-4:2013 and IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

DEHP, BBP, DBP&DIBP content:

With reference to CPSC-CH-C1001-09.3 by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of Cr (VI)

Item	Unit	MDL	Results	Limit
			37	
Hexavalent Chromium (Cr (VI)) (Metal material)	$\mu\text{g}/\text{cm}^2$	0.05	Negative	#
Hexavalent Chromium (Cr (VI)) (Non-metal material)	mg/kg	2	/	$\leq 1000$
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- Negative = Sample Cr(VI) concentration is less than  $0.10 \mu\text{g}/\text{cm}^2$   
Positive = Sample Cr(VI) concentration is greater than  $0.13 \mu\text{g}/\text{cm}^2$
- # =  
Positive indicates the presence of Cr(VI) on the tested areas and the test results are considered to be incompatible with Directive 2011/65/EU (RoHS 2.0) requirement.  
Negative indicates the absence of Cr(VI) on the tested areas and the test results are considered to be consistent with Directive 2011/65/EU (RoHS 2.0) requirement.
- mg/kg = ppm

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2) The test results of Pb

Item	Unit	MDL	Results	Limit
			5*	
Lead(Pb)	mg/kg	2	37500	≤40000
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- \* According to the declaration from the client,  
Lead (Pb) in No.5, are exempted by EU RoHS directive 2011/65/EU based on  
[ANNEX III 6(c)]: Copper alloy containing up to 4 % lead by weight

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## 3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results	Limit
			31	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	mg/kg	5	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	/
Total content	mg/kg	/	N.D.	≤1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)				
Monobromodiphenyl ether	mg/kg	5	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	/
Total content	mg/kg	/	N.D.	≤1000
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit

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4) The test results of DEHP, BBP, DBP & DIBP

Item	Unit	MDL	Results					Limit
			1	2	3	4	6	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			7	8	9	10	12	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			13	14	17	19	20	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results					Limit
			21	22	23	24	25	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			28	29	31	32	33	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			34	35	36	39	41	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

**Note:**

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Flow chart appendix is included.
- Photo appendix is included.



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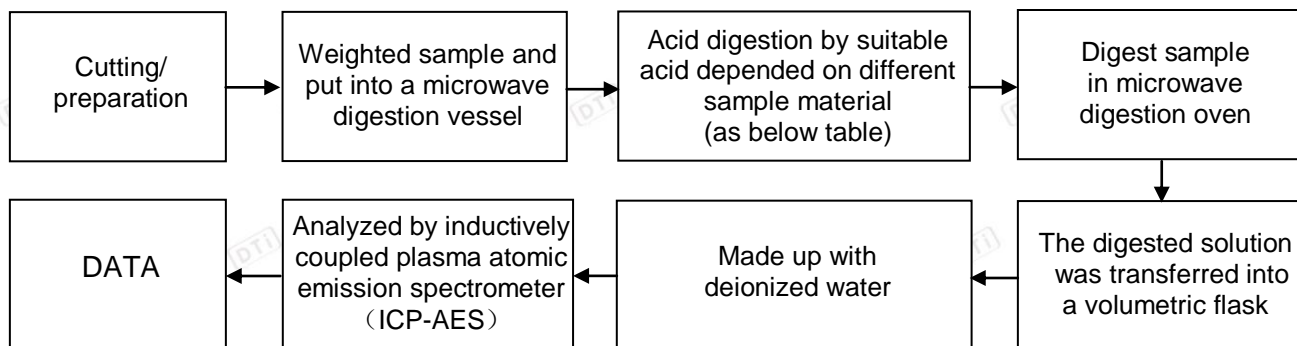
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## Appendix I

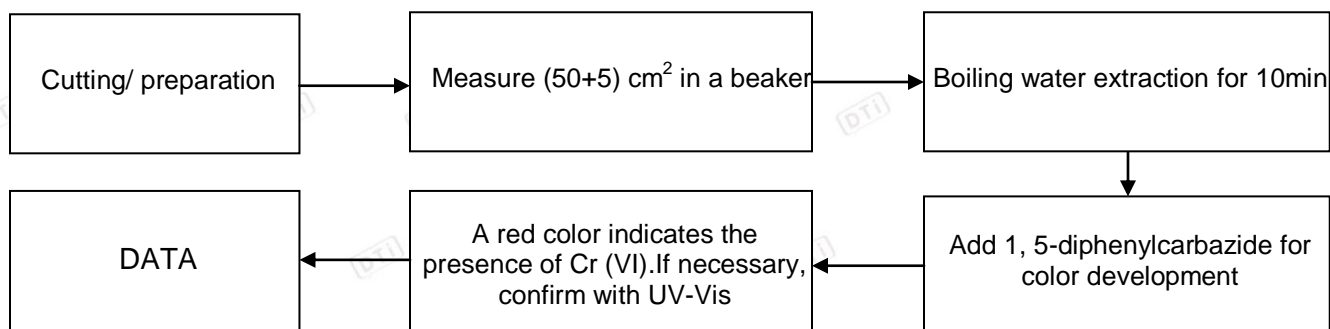
### Test Flow chart

#### 1. Test Flowchart for Cd / Pb /Hg content

These samples were dissolved totally by pre-conditioning method according to below flow chart.



#### 2. Test Flowchart for Cr<sup>6+</sup> content (Metal material)



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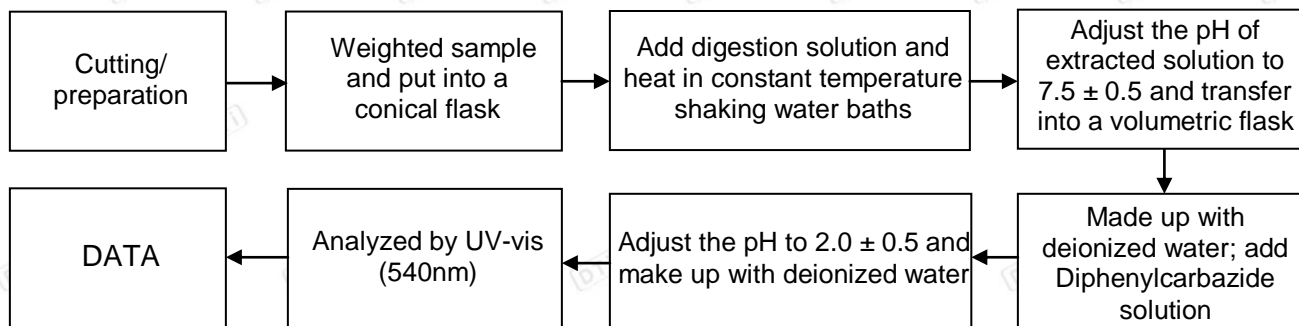
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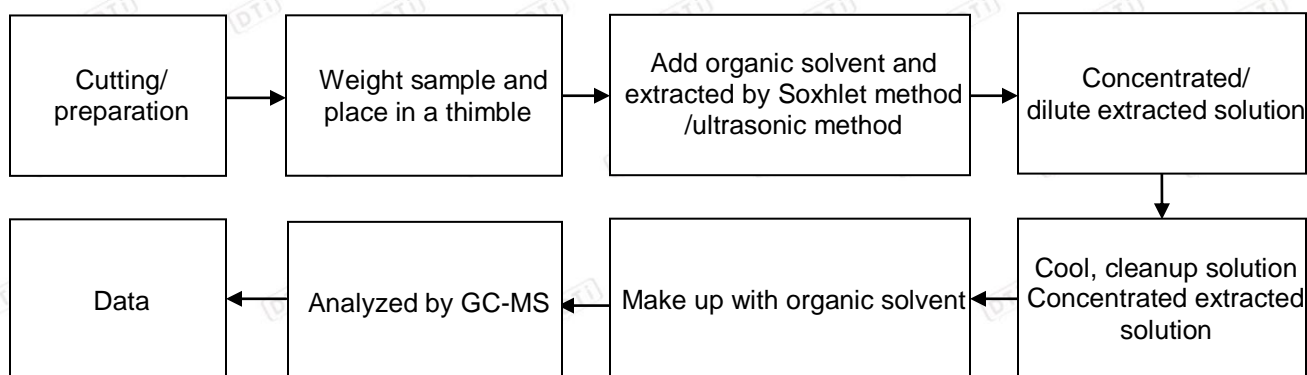
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## 3. Test Flowchart for $\text{Cr}^{6+}$ content (Non-metal material)



## 4. Test Flowchart for PBBs & PBDEs content



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## 5. Test Flowchart for DEHP, BBP, DBP & DIBP content

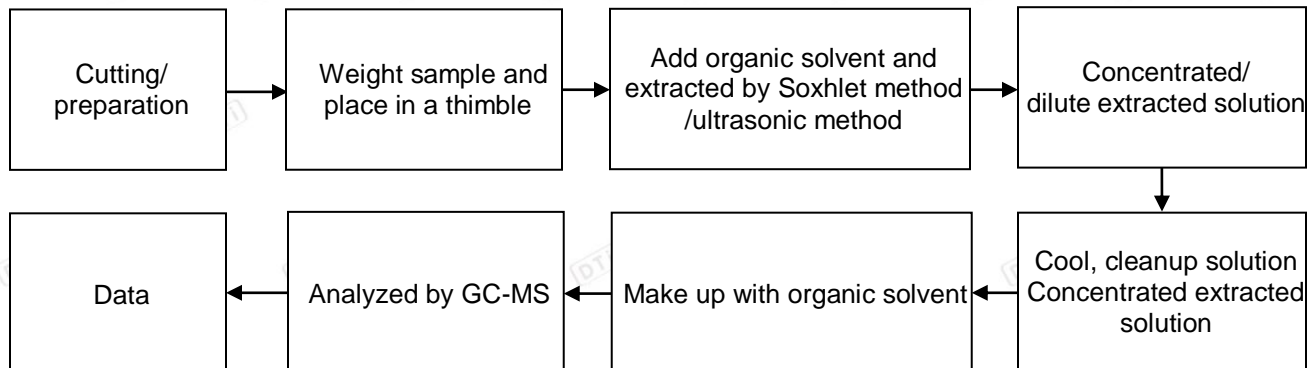


Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

\*\*\*\*\*



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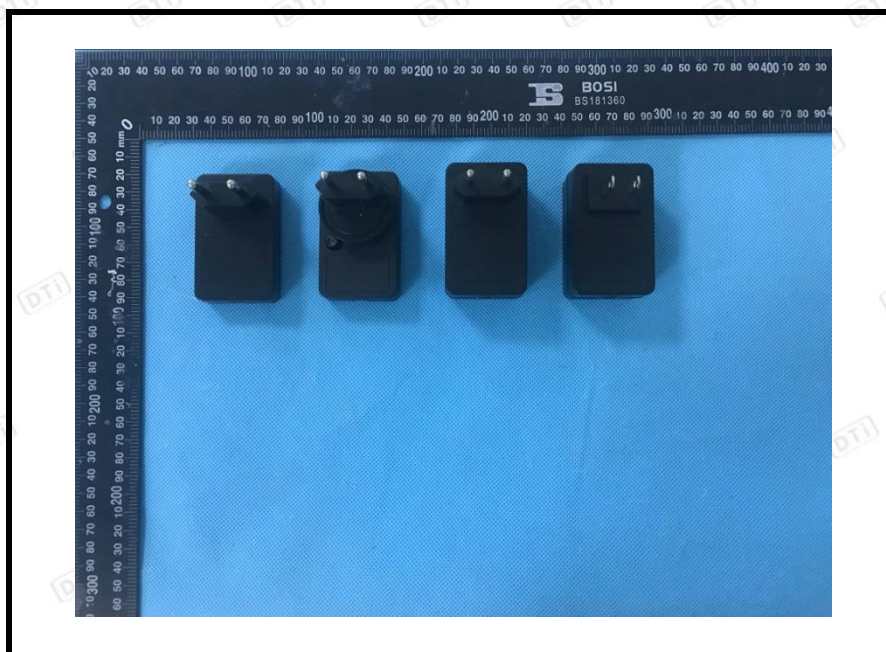
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## Appendix II

Photograph of Sample



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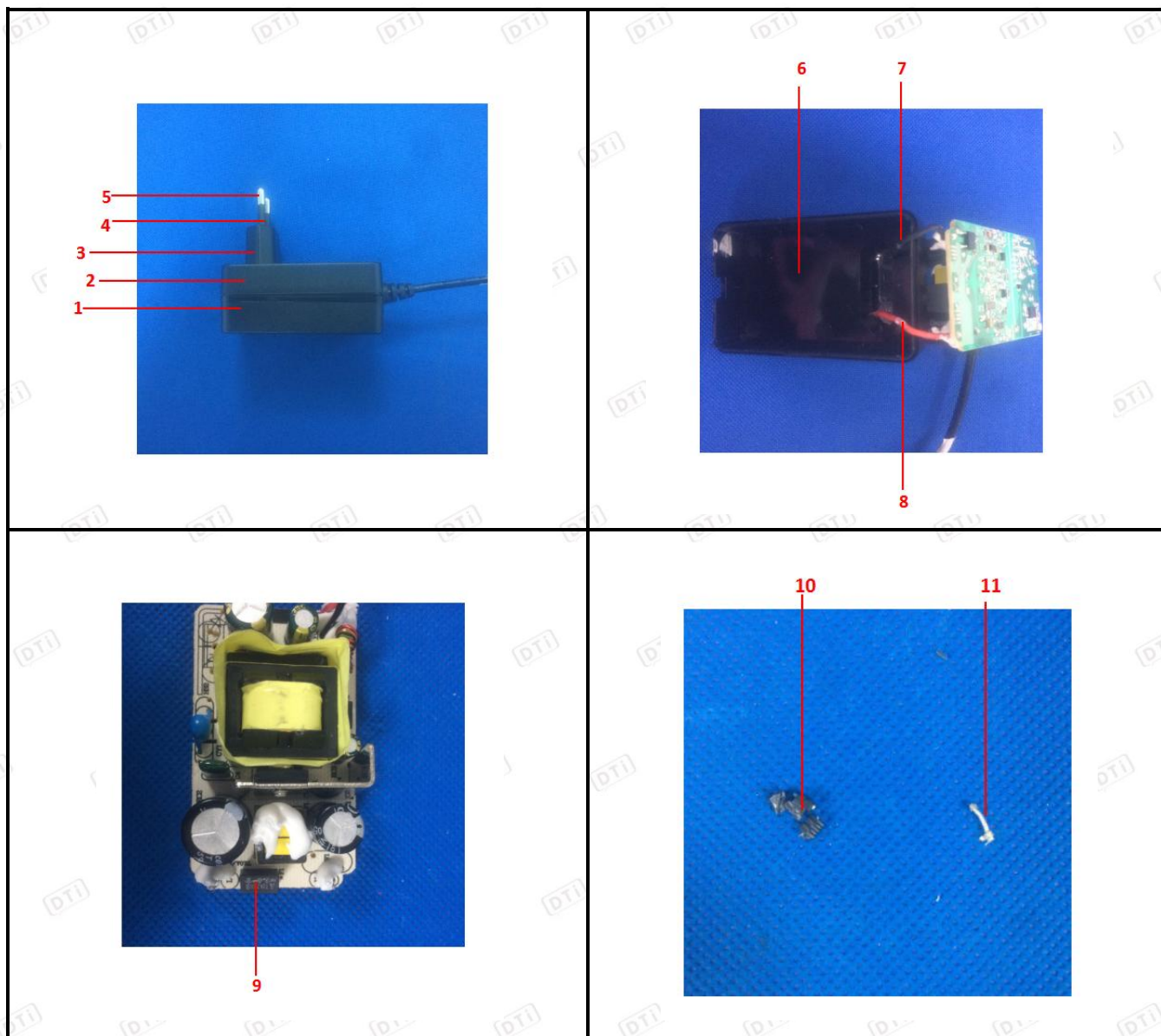


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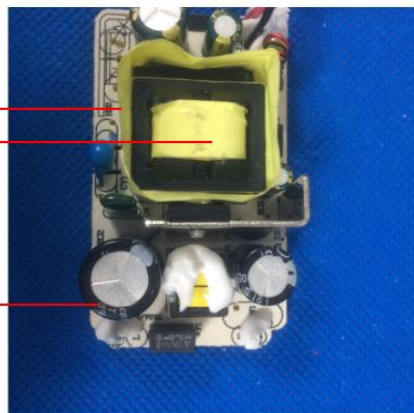
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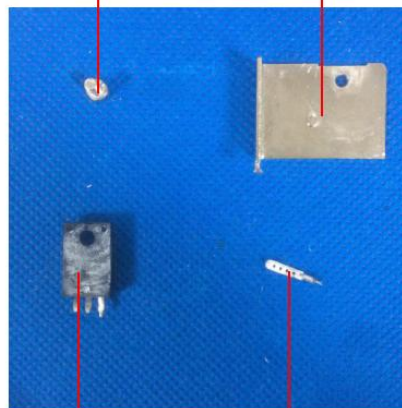


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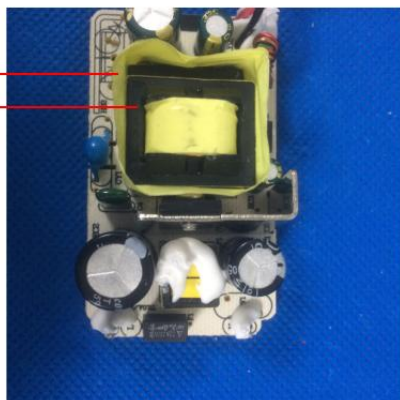
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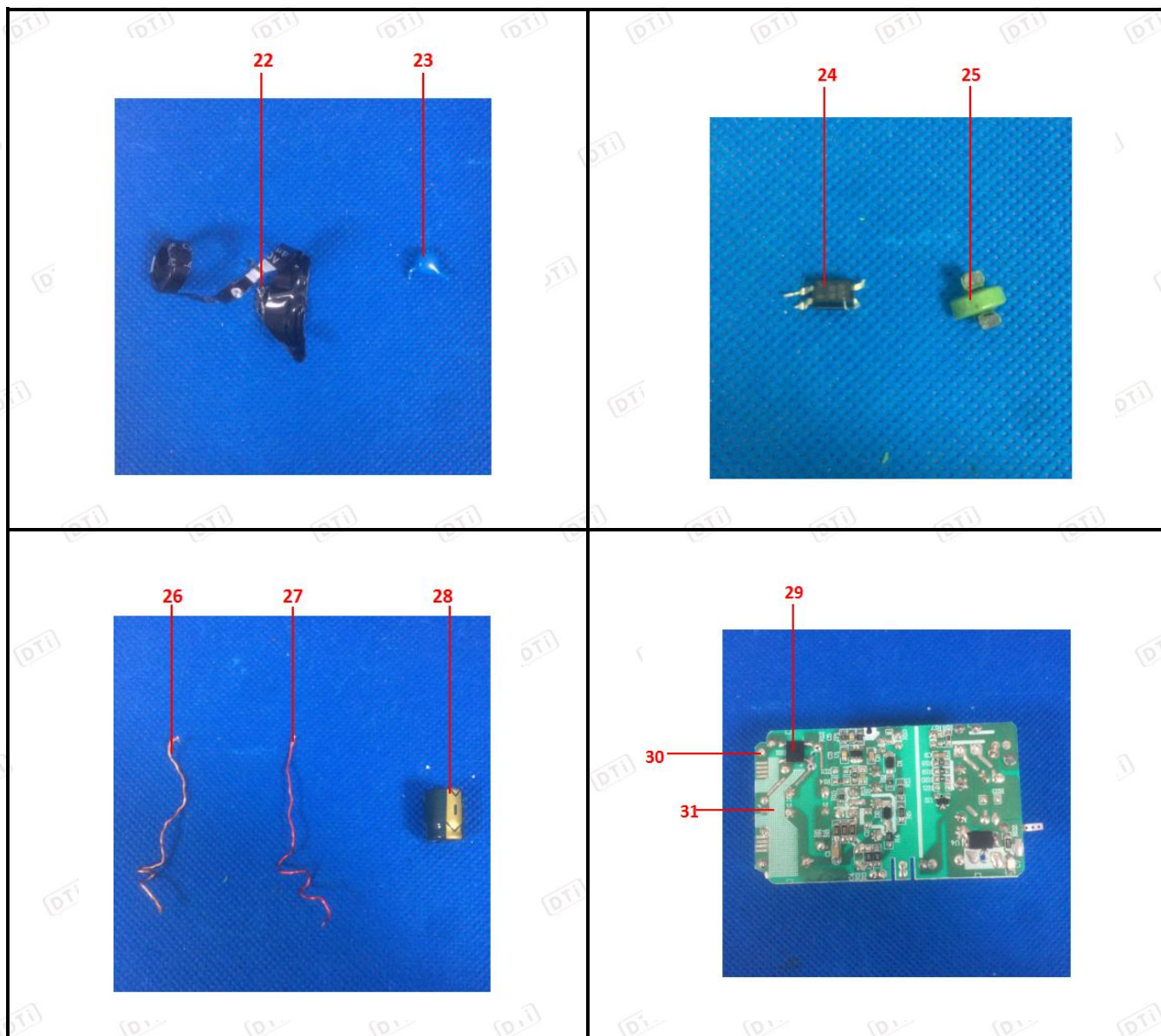


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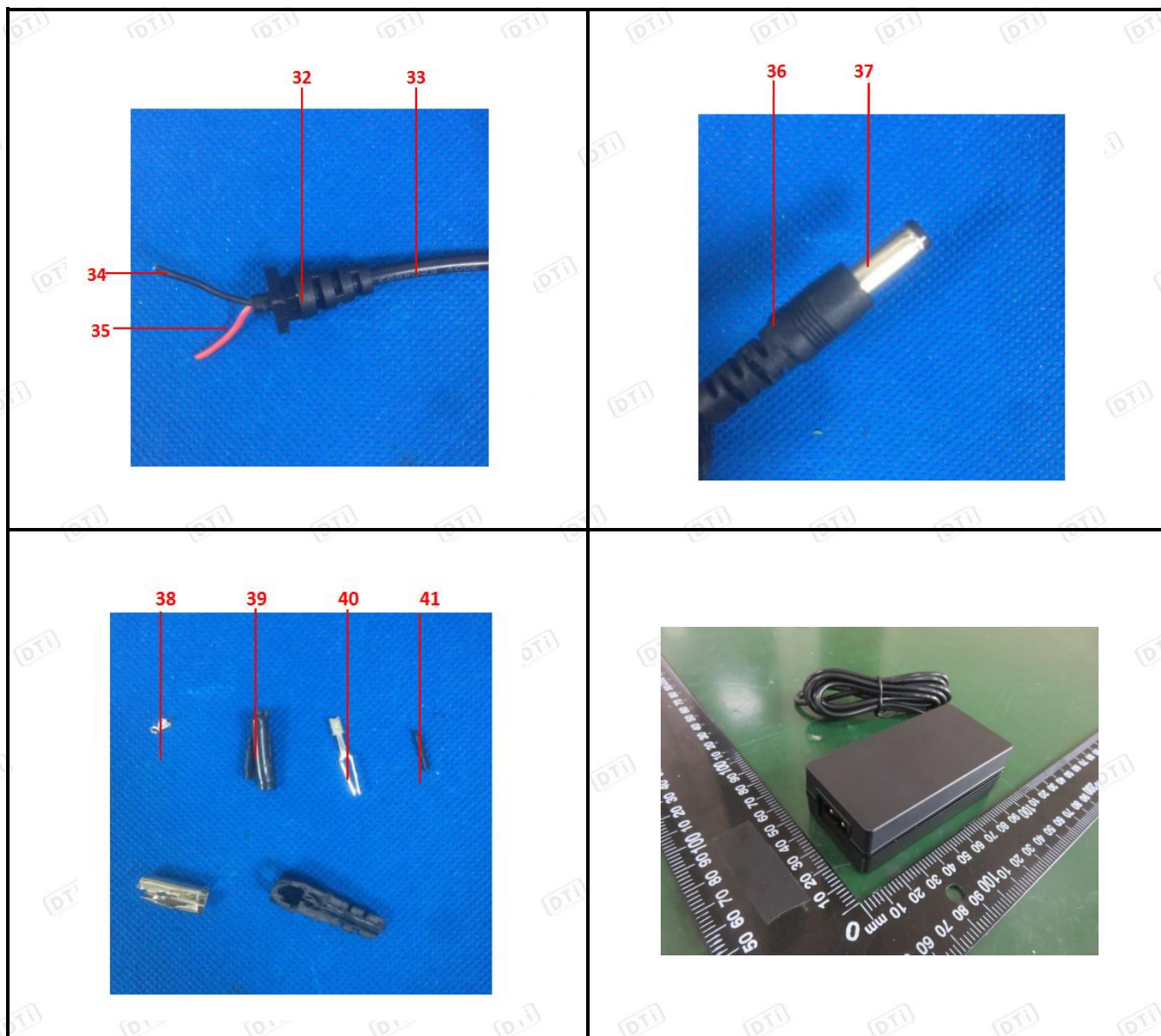


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