



# TEST REPORT

REPORT No.: **DTI201809276333A-2M**

Date: 2018-10-24

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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. : JZB012-xxxxyyywz,JZB010-xxxxyyywU,JZB110-xxxxyyywz,JZB310-xxxxyyywz,  
JZB210-xxxxyyywz

Sample Receiving Date : September 27, 2018

Testing Period : From September 27, 2018 to October19, 2018

Results : Please refer to next page(s).

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**Summary of Test Results:**


**TEST REQUEST**

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-iso-butyl 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)** .

**CONCLUSION**

**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	Silvery metal pin	BL	BL	BL	BL	BL
3	Black plastic shell	BL	BL	BL	BL	BL
4	Silvery metal pin	BL	BL	BL	BL	BL
5	Black plastic shell	BL	BL	BL	BL	BL
6	Silvery metal pin	BL	BL	BL	BL	BL
7	Black plastic shell	BL	BL	BL	BL	BL
8	Black Plastic Sleeve	BL	BL	BL	BL	BL
9	Black plastic part (envelopment)	BL	BL	BL	BL	BL
10	Silvery metal pin	BL	BL	BL	BL	BL
11	Black plastic sheet /white printing	BL	BL	BL	BL	BL
12	Yellow plastic tape	BL	BL	BL	BL	BL
13	Internal yellow plastic tape	BL	BL	BL	BL	BL
14	Black plastic baffle	BL	BL	BL	BL	BL
15	Black plastic part	BL	BL	BL	BL	BL
16	Yellow plastic (wire insulation)	BL	BL	BL	BL	BL
17	Black plastic sheet w/white printing	BL	BL	BL	BL	BL
18	Blue body	BL	BL	BL	BL	BL
19	Yellow metal shielded wire	BL	BL	BL	BL	BL
20	Red metal shielded wire	BL	BL	BL	BL	BL

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

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	White plastic part	BL	BL	BL	BL	BL
42	White plastic shell	BL	BL	BL	BL	BL
43	White plastic shell	BL	BL	BL	BL	BL
44	White plastic part	BL	BL	BL	BL	BL
45	Silvery metal pin	BL	BL	BL	BL	BL
46	White plastic part	BL	BL	BL	BL	BL
47	Silvery metal pin	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
Polybrominate ddiphenylethers (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
			30	
Hexavalent Chromium (Cr (VI)) (Metal material)	µg/cm <sup>2</sup>	0.05	Negative	#
Hexavalent Chromium (Cr (VI)) (Non-metal material)	mg/kg	2	/	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- Negative= Sample Cr(VI) concentration is less than 0.10 µg/cm<sup>2</sup>  
Positive = Sample Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>
- # =  
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 PBBs & PBDEs

Item	Unit	MDL	Results	Limit
			24	
<b>Polybrominated Biphenyls (PBBs)</b>				
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
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>				
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
<b>Conclusion</b>	/	/	<b>Pass</b>	/

Note:

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

\*\*\*\*\*



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

Item	Unit	MDL	Results					Limit
			1	3	5	7	8	
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
			9	11	12	13	14	
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
			15	16	17	18	21	
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>	/

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Item	Unit	MDL	Results					Limit
			23	24	25	26	27	
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	32	34	35	
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
			36	37	39	41	42	
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>	/

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Item	Unit	MDL	Results			Limit
			43	44	46	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</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.
- Modify the image: in the original report, 8, 11, 12, 13, 18 and 19 points were updated according to the new image of the same material.

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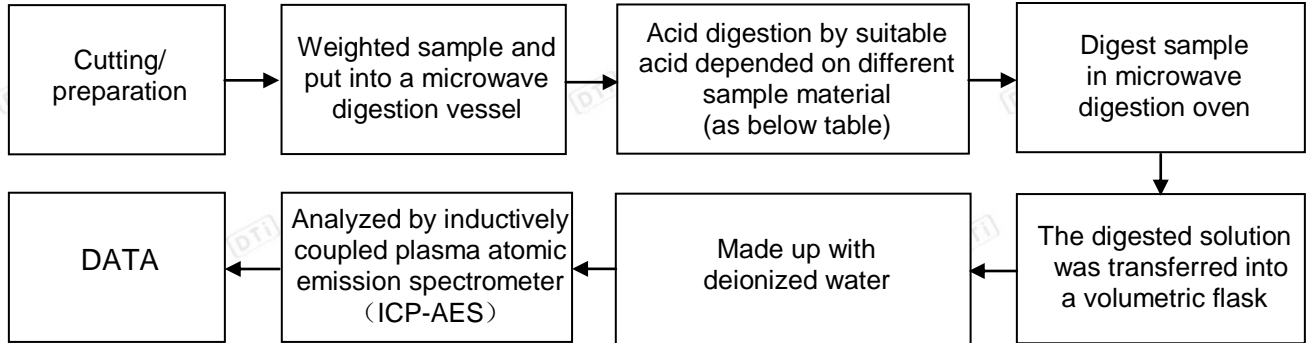
5/F, 1st Tower of Gaoxinqi High-tech Zone, 67th Zone, Liuxian 1st Road, Bao'an, Shenzhen, Guangdong, China  
中国广东省深圳市宝安区留仙一路67区高新奇战略新兴产业园二期1号楼5楼  
Tel: +86-755-66683088 Fax: +86-755-66683099

## Appendix I

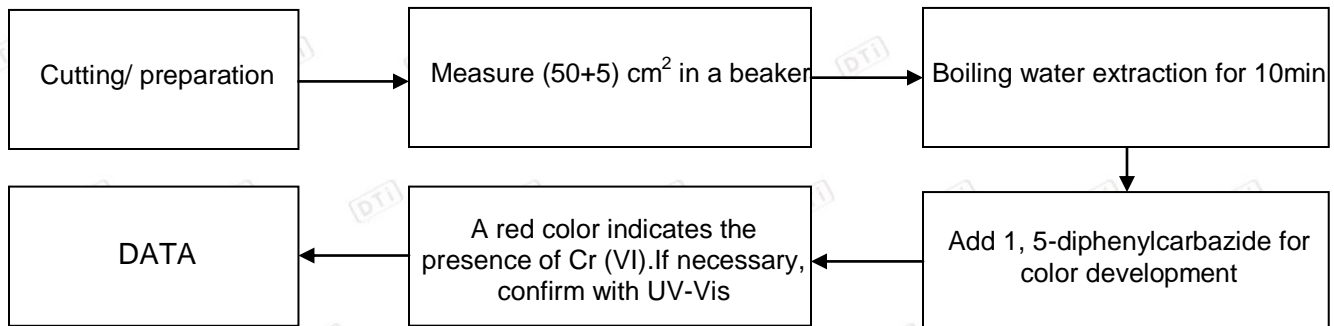
### Test Flow chart

#### 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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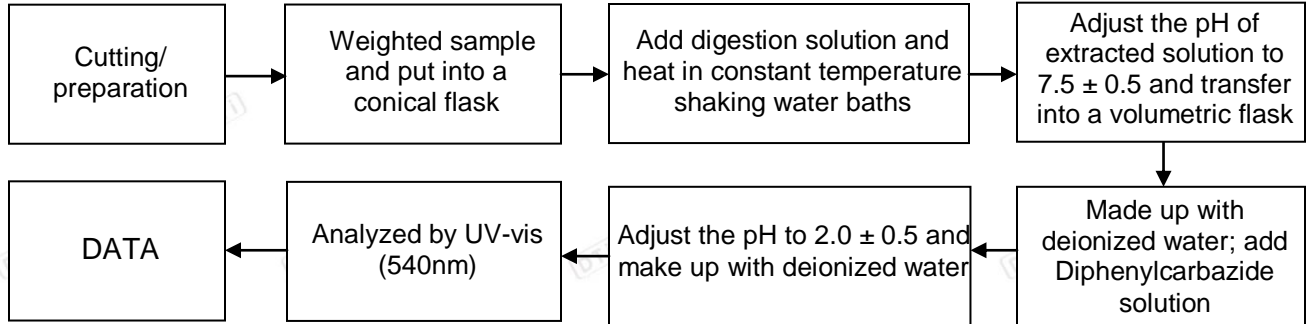
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REPORT No.: DTI201809276333A-2M

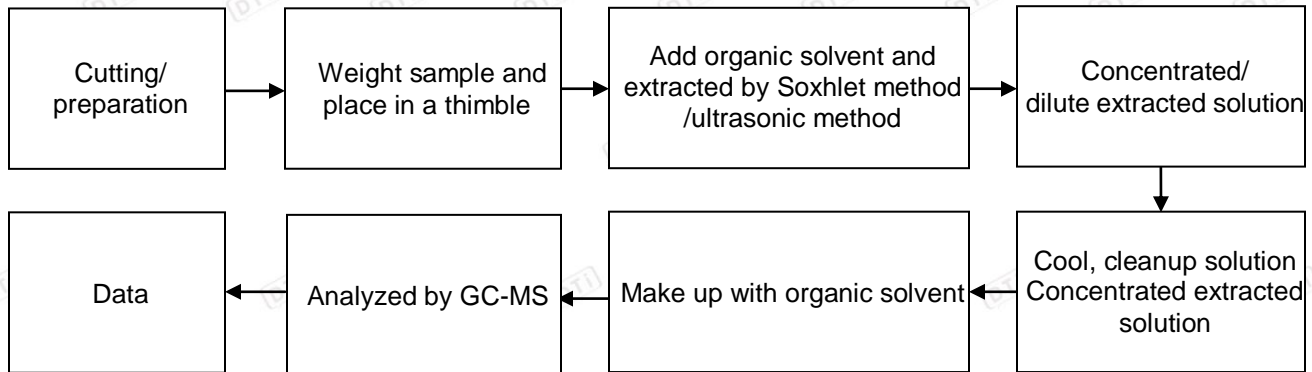
Date: 2018-10-24

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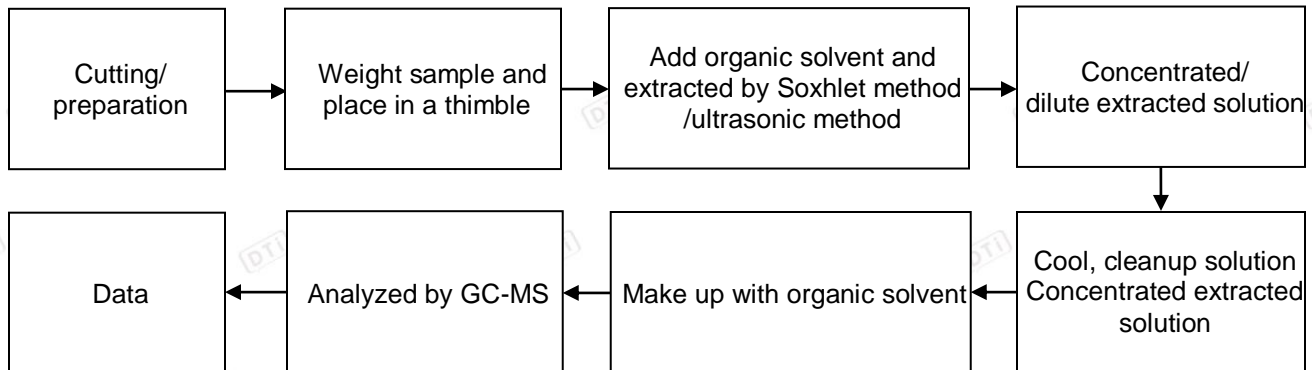
### 3. Test Flowchart for Cr<sup>6+</sup> content (Non-metal material)



### 4. Test Flowchart for PBBs & PBDEs content



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



\*\*\*\*\*



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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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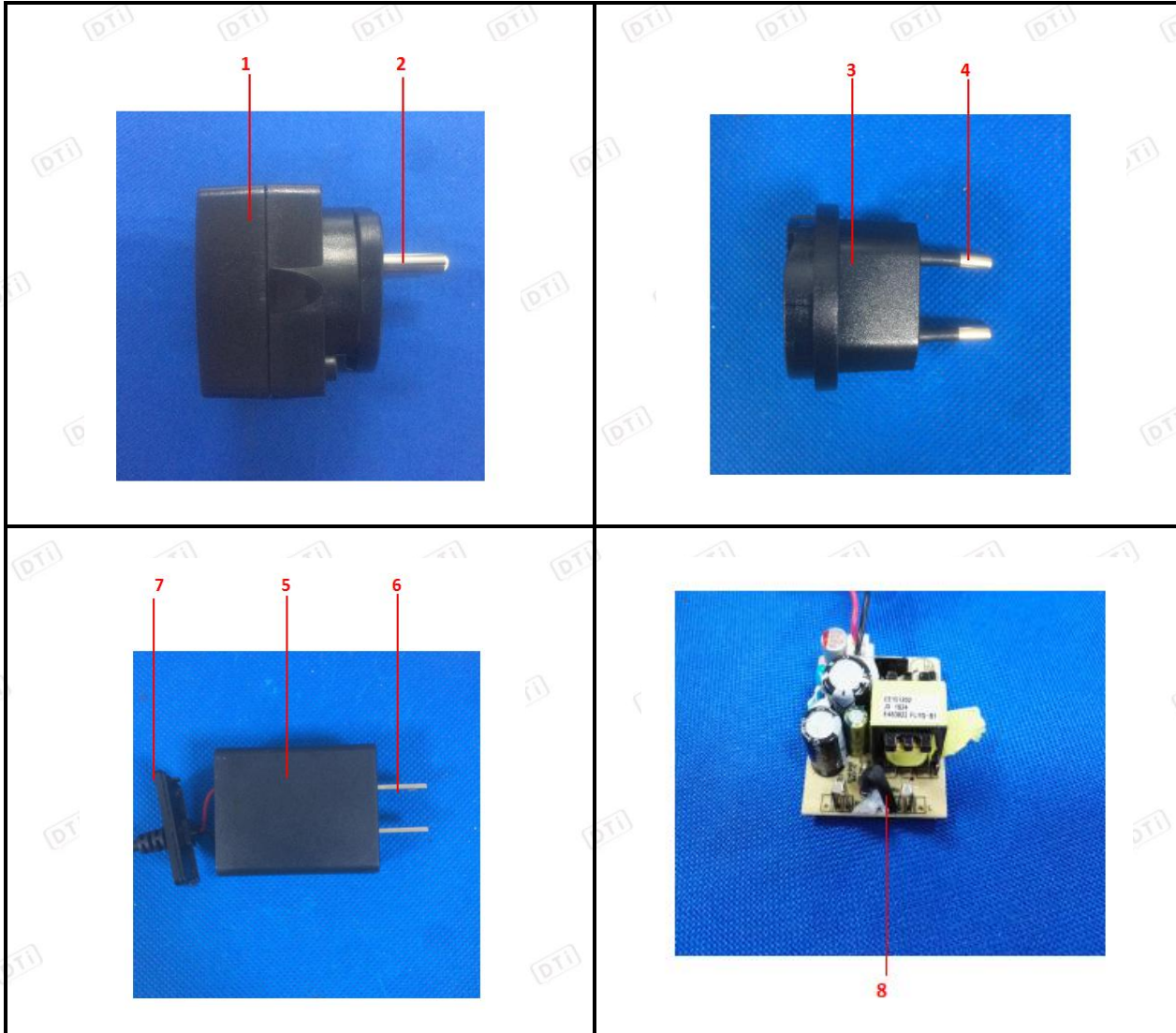


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## Appendix II

### Photograph of Sample



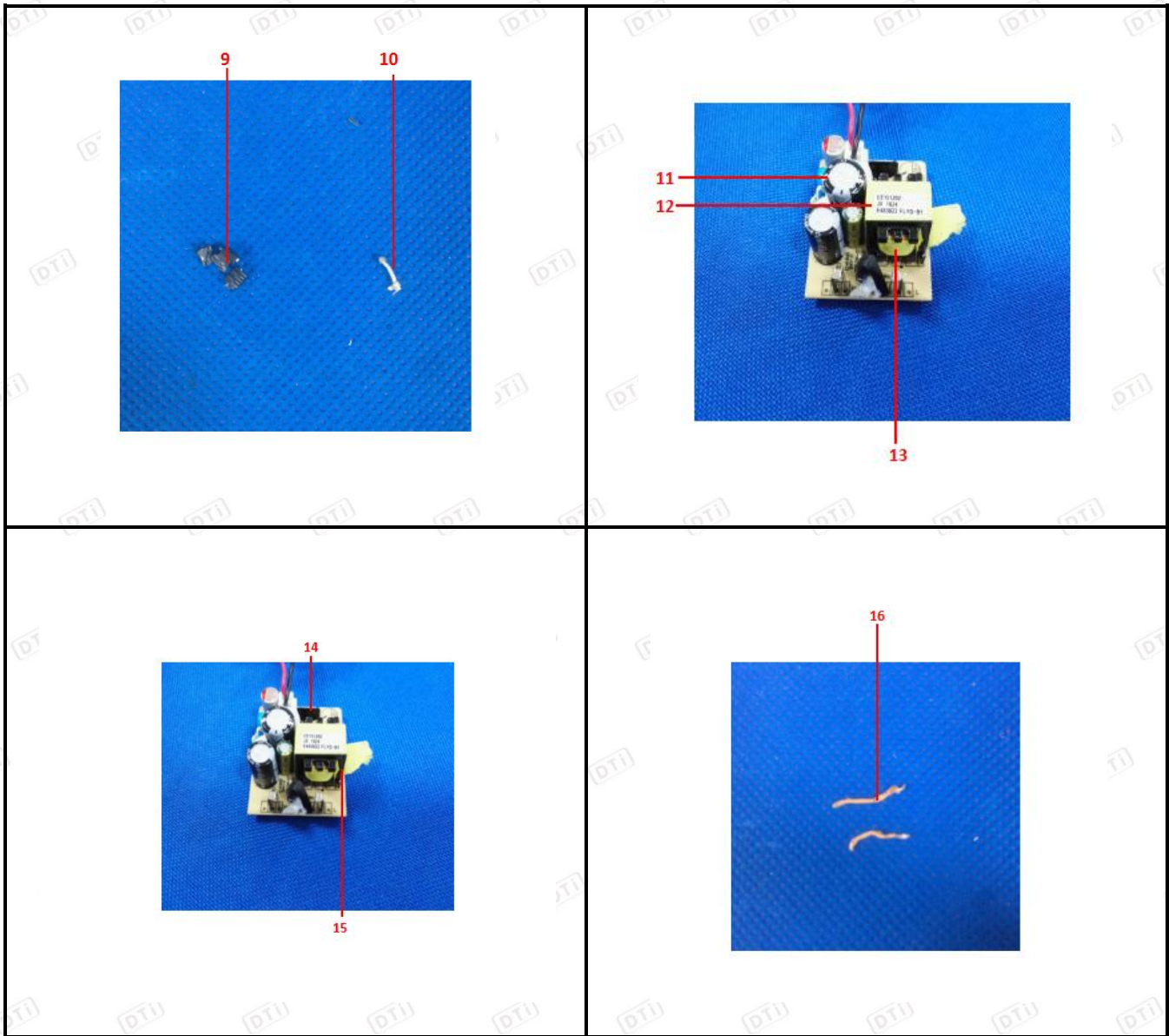
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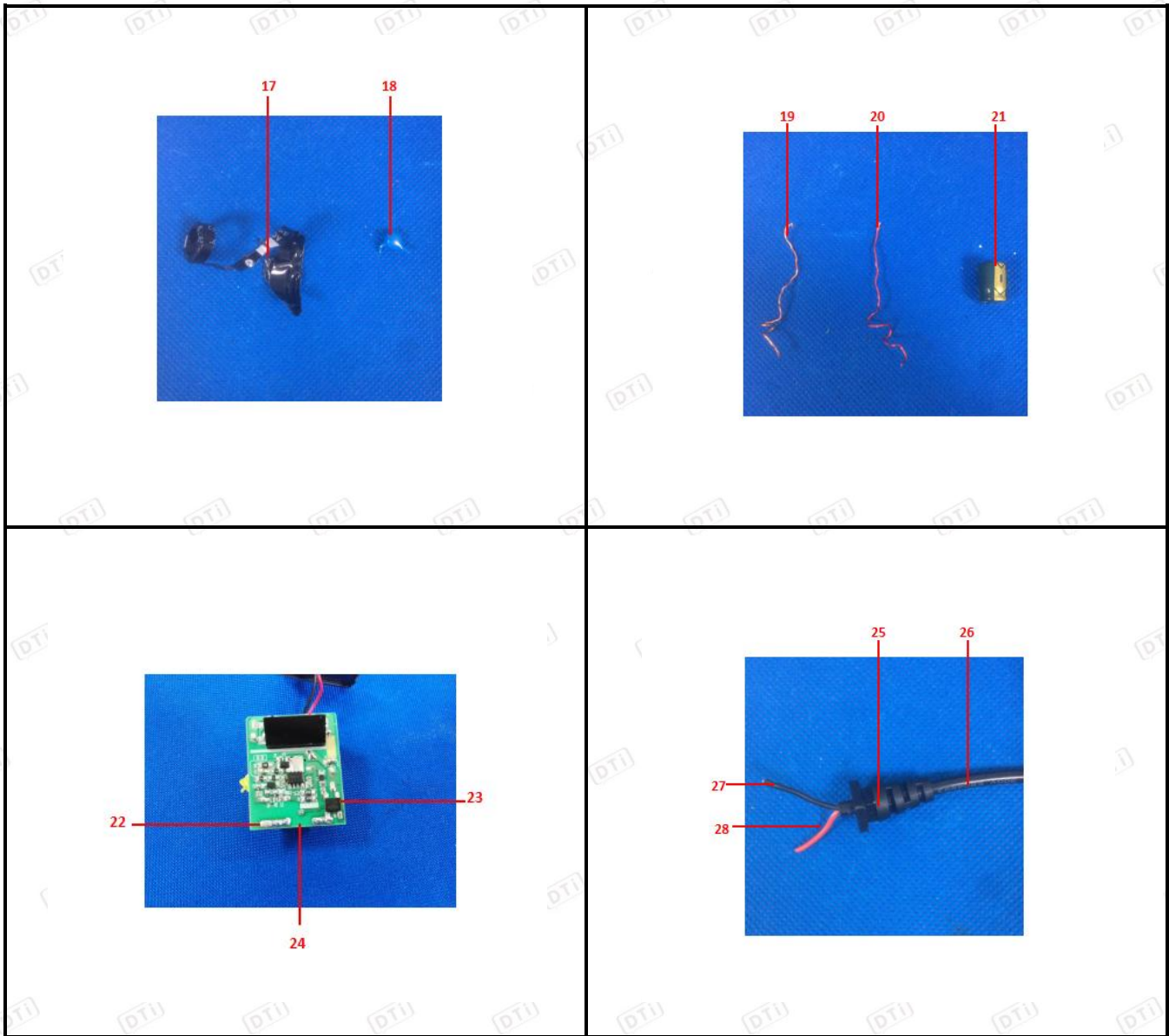


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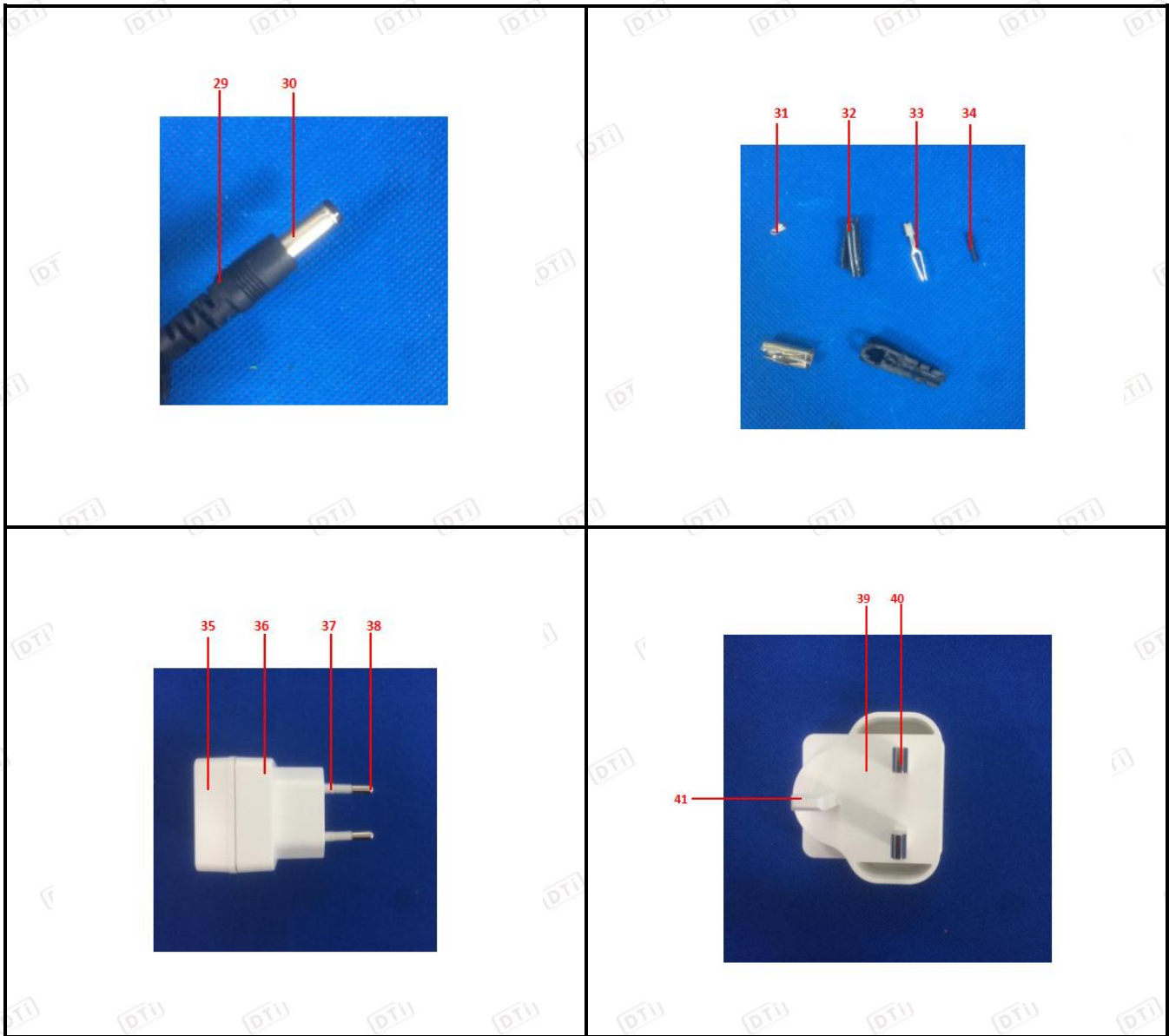


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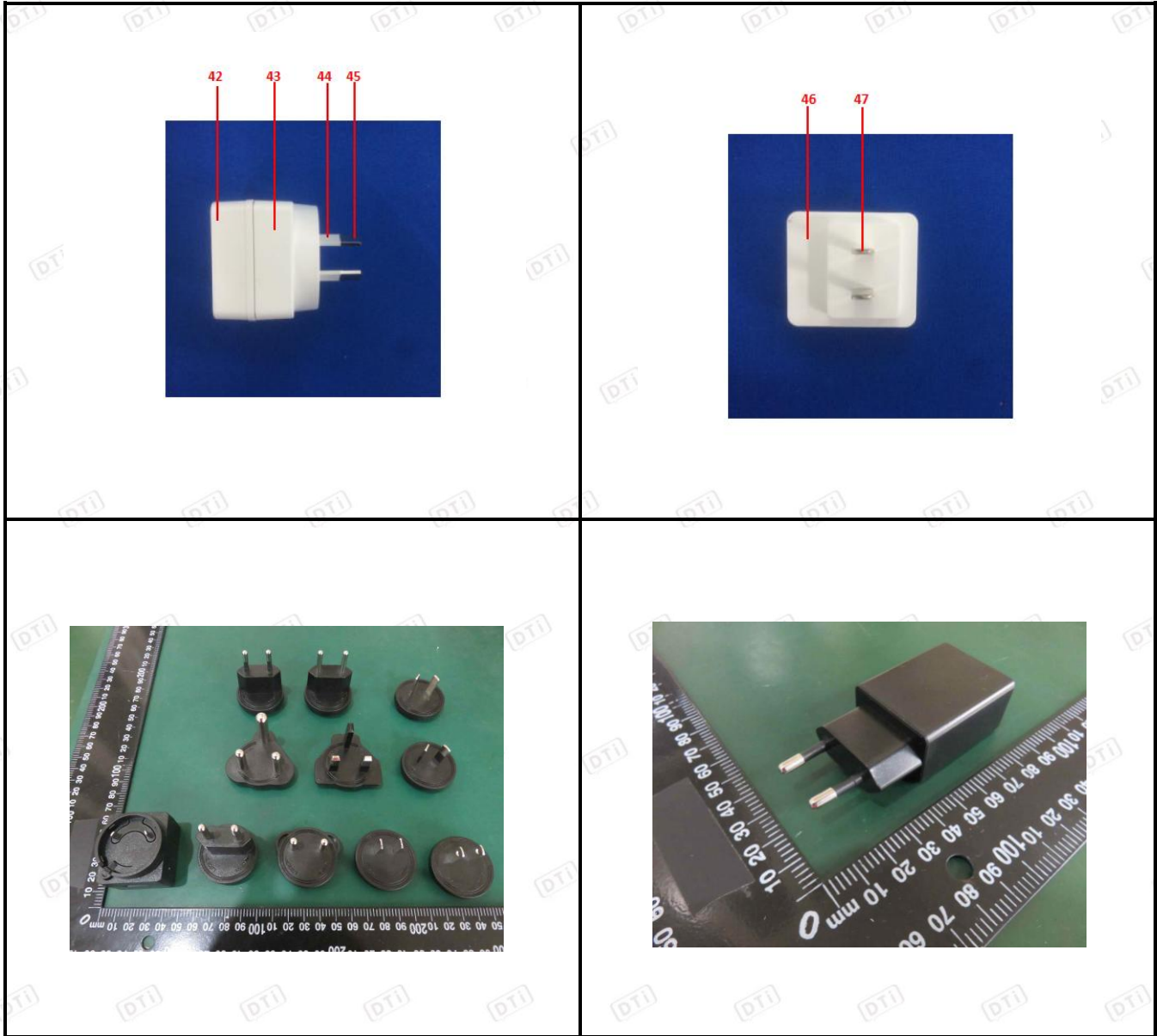


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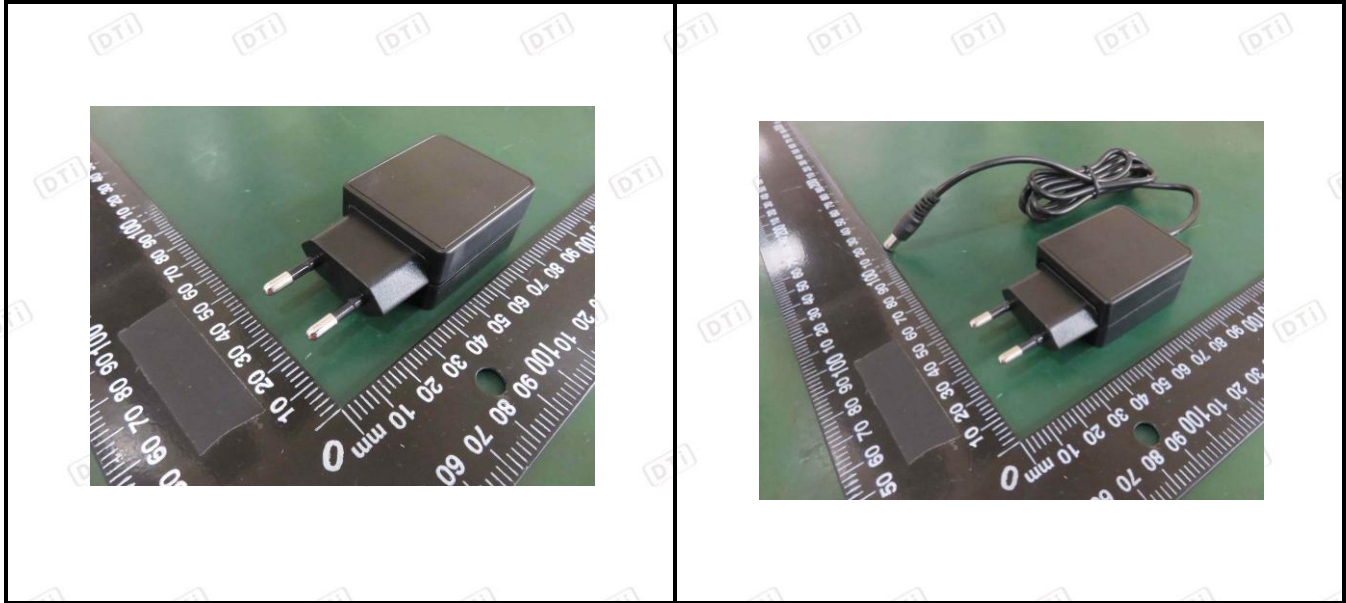


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DTI authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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