

# Test Report

Report No.: U01503200323051E

Query Password: QW5143

Date: Mar. 27, 2020

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Applicant:

Contact information:

The following sample(s) was (were) submitted and identified by client as:

Sample Description : 5W wireless charging cork mousepad and stand  
Style/Item No. : P308.089  
Sample Received Date : Mar. 23, 2020  
Testing Period : From Mar. 23, 2020 to Mar. 27, 2020  
Test Request : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

Signed for and on behalf of Shen Zhen UONE Test Co., LTD.

Prepared by



Marcia Deng

Checked by



Nora Deng

Approved by



Pascal Shi

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## Summary of Test Results:

### TEST REQUEST

RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU) 2015/863

To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),

(1) Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)  
content by screening test and chemical test

**PASS**

(2) To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test

**PASS**

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### CONCLUSION

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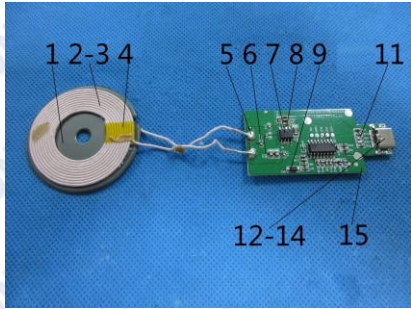
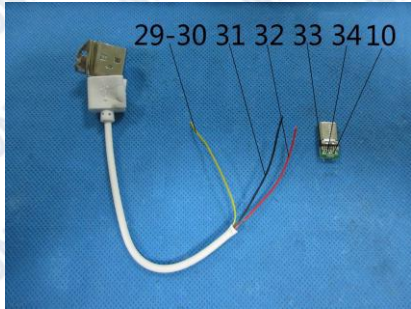
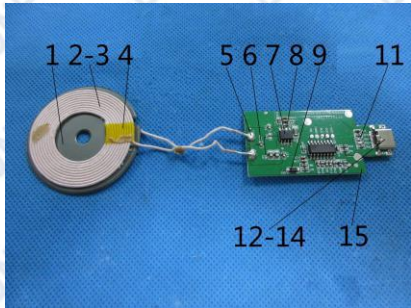
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## Test Material List

Material No.	Description (Location)	Photo(s) of tested materials
1	Black magnetic sheet	
2	Pink fiber silk	
3	Copper metal(wire)	
4	Yellow transparent packaging tape	
5	Silvery metal(solder)	
6	Yellow body(capacitor)	
7	Black body(IC)	
8	Black body(resistor)	
9	Black body(diode)	
10	Black body(resistor)	
11	White body(LED)	
12	Silvery metal(shell)	
13	Copper metal(pin)	
14	Black plastic(pin fixer)	
15	Green PCB	

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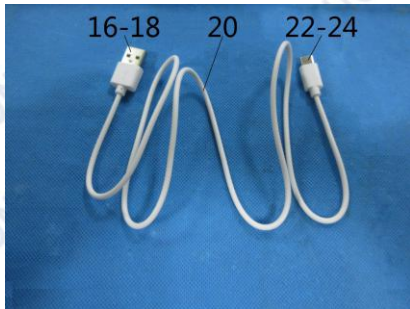
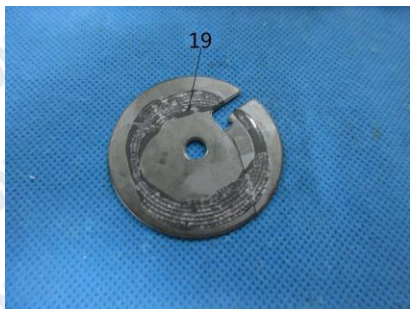
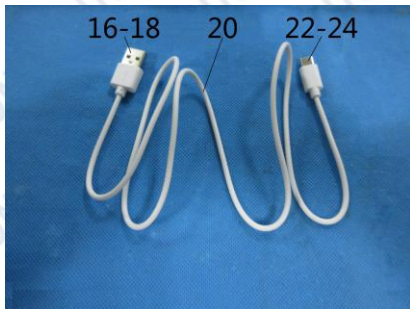

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Material No.	Description (Location)	Photo(s) of tested materials
16	Silvery metal(shell)	
17	Copper metal(pin)	
18	White plastic(pin fixer)	
19	Transparent hot melt adhesive	
20	White plastic(wire jacket)	
21	Silvery magnet	

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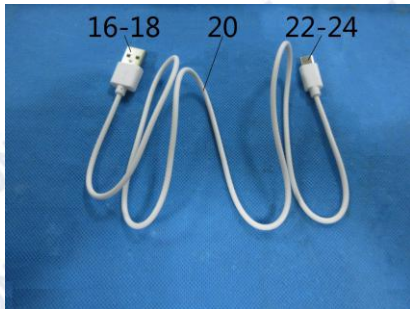
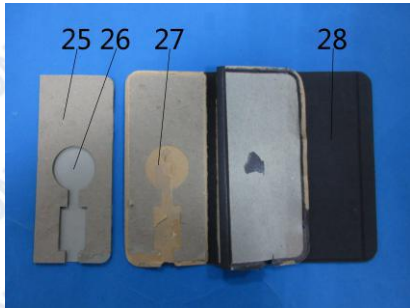
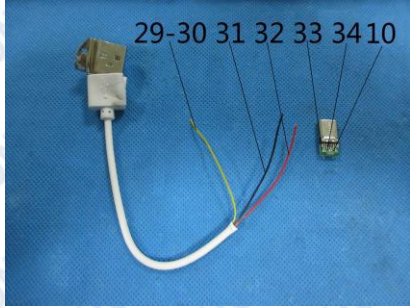
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Material No.	Description (Location)	Photo(s) of tested materials
22	Silvery metal(shell)	
23	Copper metal(pin)	
24	Grey black plastic(pin fixer)	
25	Grey paper	
26	Grey white paper	
27	Yellow paper	
28	Black lint	
29	Yellow plastic(wire jacket)	
30	Copper metal(wire)	
31	Black plastic(wire jacket)	
32	Red plastic(wire jacket)	
33	Green PCB	
34	Silvery metal(solder)	

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**Test Result(s):****(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)****Test Method:** IEC62321-3-1: 2013, IEC62321-4: 2013+A1:2017, IEC62321-5: 2013, IEC62321-6: 2015, IEC62321-7-1:2015, IEC 62321-7-2: 2017, analyzed by EDXRF & ICP-OES & GC-MS & UV-Vis.

No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	BL	—	—	PASS
2	BL	BL	BL	BL	BL	—	—	PASS
3	BL	BL	BL	BL	NA	—	—	PASS
4	BL	BL	BL	BL	BL	—	—	PASS
5	BL	BL	BL	BL	NA	—	—	PASS
6	BL	BL	BL	BL	BL	—	—	PASS
7	BL	BL	BL	BL	BL	—	—	PASS
8	BL	BL	BL	BL	BL	—	—	PASS
9	BL	BL	BL	BL	BL	—	—	PASS
10	BL	BL	BL	BL	BL	—	—	PASS
11	BL	BL	BL	BL	BL	—	—	PASS
12	BL	BL	BL	BL	NA	—	—	PASS
13	BL	BL	BL	BL	NA	—	—	PASS
14	BL	BL	BL	BL	BL	—	—	PASS
15	BL	BL	BL	BL	BL	—	—	PASS
16	BL	BL	BL	BL	NA	—	—	PASS
17	BL	BL	BL	BL	NA	—	—	PASS
18	BL	BL	BL	BL	BL	—	—	PASS
19	BL	BL	BL	BL	BL	—	—	PASS
20	BL	BL	BL	BL	BL	—	—	PASS
21	BL	BL	BL	BL	BL	—	—	PASS
22	BL	BL	BL	BL	NA	—	—	PASS
23	BL	BL	BL	BL	NA	—	—	PASS

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No.	EDXRF Result <sup>(1)</sup>					Chemical Result <sup>(2)</sup> (mg/kg)	Remark <sup>(3)</sup>	Conclusion
	Pb	Cd	Hg	Cr	Br			
24	BL	BL	BL	BL	BL	—	—	PASS
25	BL	BL	BL	BL	BL	—	—	PASS
26	BL	BL	BL	BL	BL	—	—	PASS
27	BL	BL	BL	BL	BL	—	—	PASS
28	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
29	BL	BL	BL	BL	BL	—	—	PASS
30	BL	BL	BL	BL	NA	—	—	PASS
31	BL	BL	BL	BL	BL	—	—	PASS
32	BL	BL	BL	BL	BL	—	—	PASS
33	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	—	PASS
34	BL	BL	BL	BL	NA	—	—	PASS

## Remark:

- (1) ①Results are obtained by EDXRF for primary screening, and further wet 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 an inconclusive result was found (as "X" in below table) (unit: mg/kg).
- ②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.
- ③The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

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Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

② Unit and RL (Report limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	5	5

③ According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

Storage condition 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.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

## (2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
8	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	PASS

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Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				Conclusion
10	N.D.	N.D.	N.D.	N.D.	
11	N.D.	N.D.	N.D.	N.D.	
14	N.D.	N.D.	N.D.	N.D.	
15	N.D.	N.D.	N.D.	N.D.	
18	N.D.	N.D.	N.D.	N.D.	
19	N.D.	N.D.	N.D.	N.D.	
20	N.D.	N.D.	N.D.	N.D.	
21	N.D.	N.D.	N.D.	N.D.	
24	N.D.	N.D.	N.D.	N.D.	
25	N.D.	N.D.	N.D.	N.D.	
26	N.D.	N.D.	N.D.	N.D.	
27	N.D.	N.D.	N.D.	N.D.	
28	N.D.	N.D.	N.D.	N.D.	
29	N.D.	N.D.	N.D.	N.D.	
31	N.D.	N.D.	N.D.	N.D.	
32	N.D.	N.D.	N.D.	N.D.	
33	N.D.	N.D.	N.D.	N.D.	

- Note:**
1. mg/kg = milligram per kilogram (ppm).
  2. RL = report limit.
  3. N.D.=not detected(less than RL).

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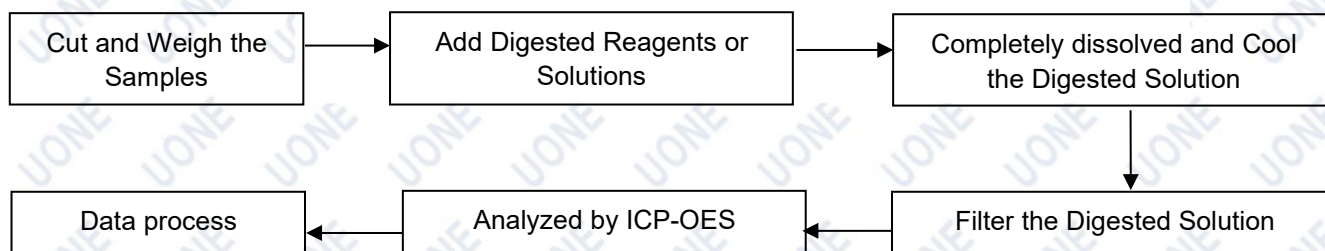
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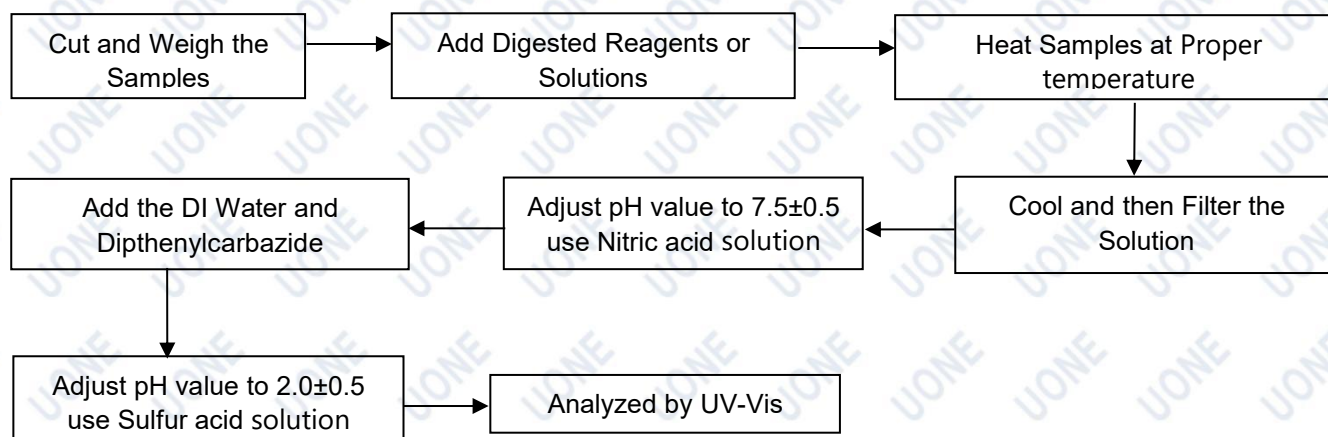
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## Test Process Flow

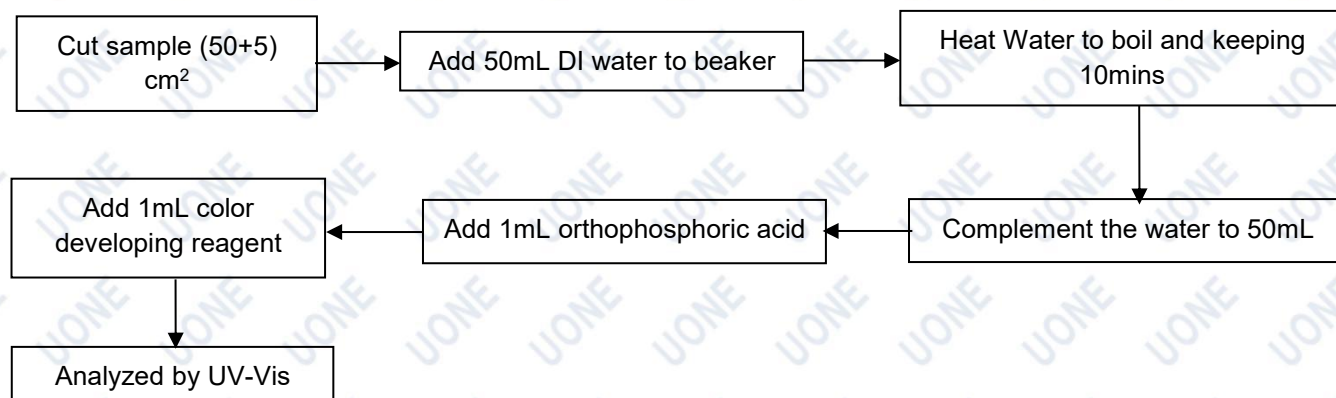
### 1. Lead, Cadmium, Mercury



### 2. Hexavalent Chromium (Non-metal)



### Hexavalent Chromium (Metal)



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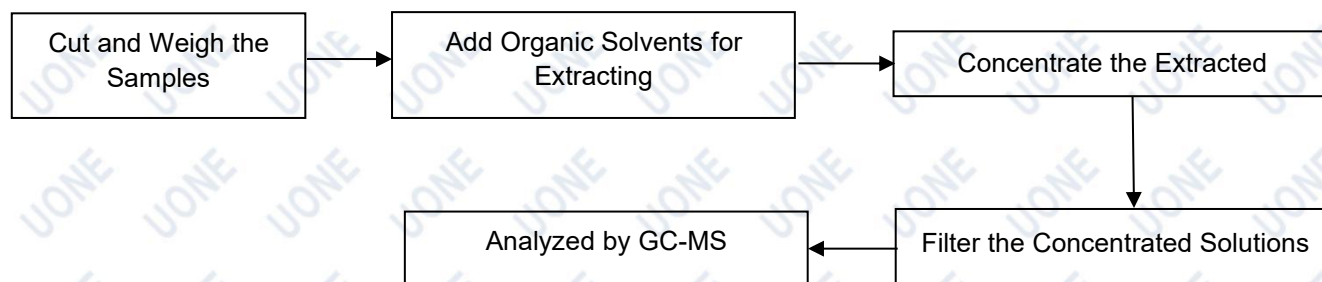
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**Test Process Flow (Continued):**

## 3. PBBs &amp; PBDEs, Phthalates



Remark: The test result(s) is(are) copied from the test report No. U01501191219049E, dated Dec. 25, 2019.

**Photo(s) of Sample:****\*\*\*End of Report\*\*\***

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