

TEST REPORT

- APPLICANT** :
- ADDRESS** :
- SAMPLE DESCRIPTION** : shaver
- ITEM NO.** : RSCX-317/ RSCX-311/ RSCX-368/ RSCX-368A/ RSCX-310/
RSCX-358/ RSCX-312/
RSCX-313/315/316/318/319/328/338/378/388/398/RSCW-218/RSCW-228/R
SCW-238/
RSCW-258/268/278/288/298/RSCX-211/RSCW-108
- SAMPLE RECEIVED DATE** : 21-Jun-2018
- TURN AROUND TIME** : 21-Jun-2018 to 28-Jun-2018
- TEST SPECIFICATION** : Total concentration of Lead, Cadmium, Mercury, Chromium VI, Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in Electrical and Electronic Equipment in accordance with EC Directive 2011/65/EU (RoHS)
- CONCLUSION** : Based on the analysis on the selected of the submitted sample(s), the test results do comply with the concentration limits as specified in Annex II to Directive 2011/65/EU.

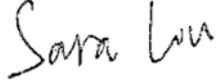
Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to hz.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of

Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou Branch



Sara Liu
Quality Supervisor

TEST SAMPLE PHOTO



EFHZ18061474-CG-01

TO BE CONTINUED

COMPONENT PHOTO(S)



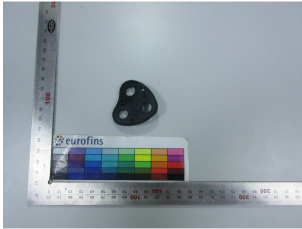
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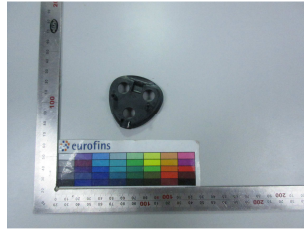
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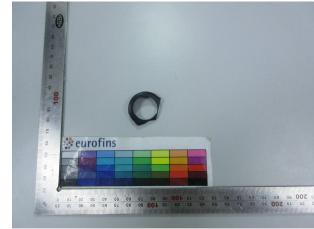
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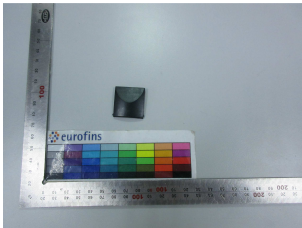
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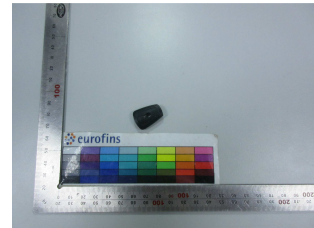
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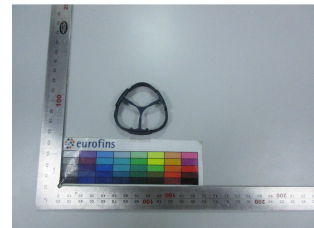
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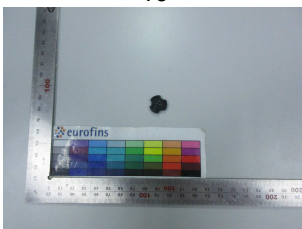
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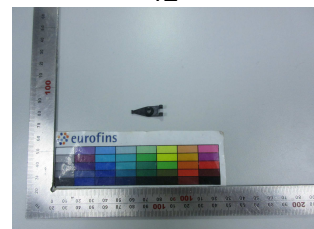
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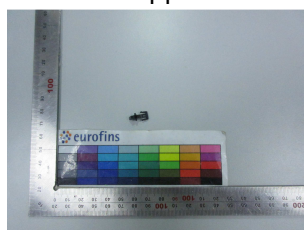
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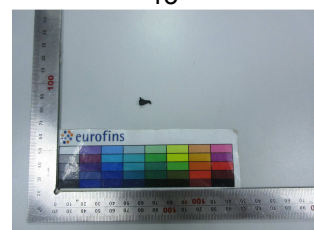
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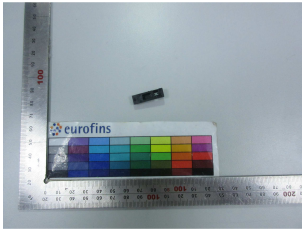
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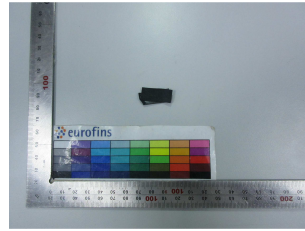
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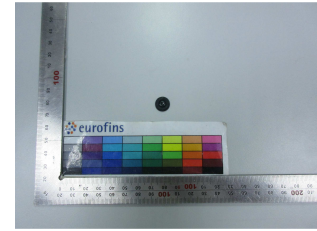
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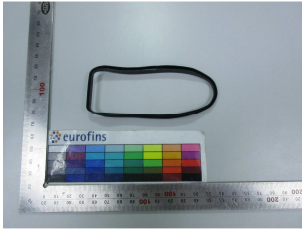
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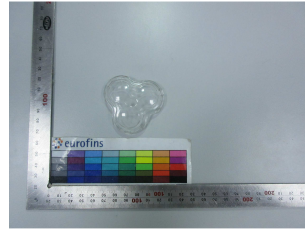
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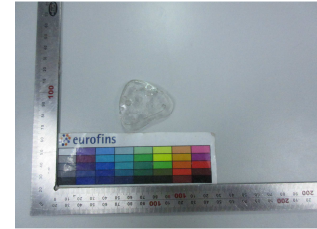
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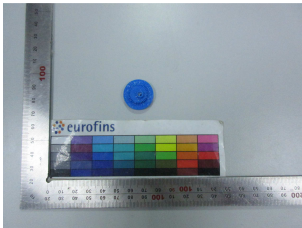
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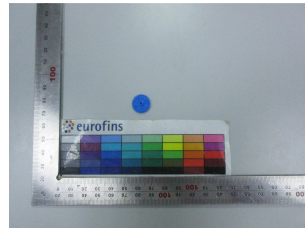
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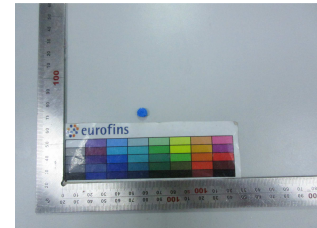
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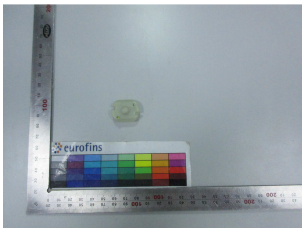
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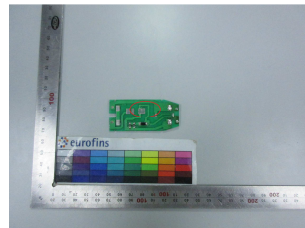
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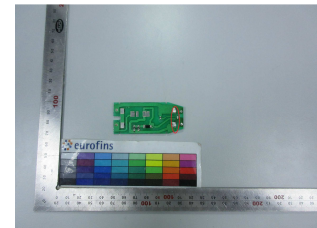
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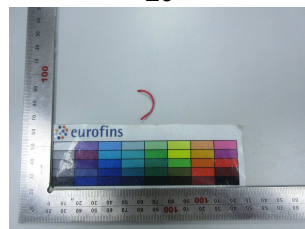
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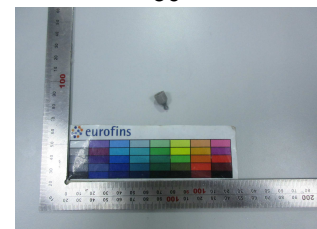
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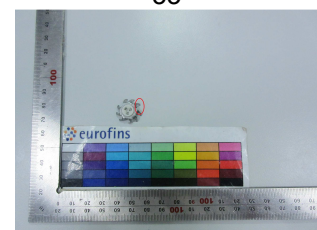
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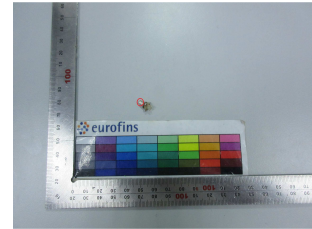
COMPONENT PHOTO(S)



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TO BE CONTINUED

TEST RESULT

A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
1	Black plastic block 1	ND	ND	ND	ND	ND
2	Black plastic block 2	ND	ND	ND	ND	ND
3	Black plastic block 3	ND	ND	ND	ND	ND
4	Black plastic block 4	ND	ND	ND	173	ND
5	Black plastic block 5	ND	ND	ND	ND	ND
6	Black plastic block 6	ND	ND	ND	ND	ND
7	Black plastic block 7	ND	ND	ND	ND	ND
8	Black plastic block 8	ND	ND	ND	ND	ND
9	Black plastic block 9	ND	ND	ND	ND	ND
10	Black plastic block 10	ND	ND	ND	ND	ND
11	Dark blue plastic block 1	ND	ND	ND	ND	ND
12	Dark blue plastic block 2	ND	ND	ND	ND	ND
13	Black plastic block 11	ND	ND	ND	ND	ND
14	Black plastic block 12	ND	ND	ND	ND	ND
15	Black plastic block 13	ND	ND	ND	ND	ND
16	Black plastic block 14	ND	ND	ND	ND	ND
17	Black plastic block 15	ND	ND	ND	ND	ND
18	Black plastic block 16	ND	ND	ND	ND	ND
19	Black plastic block 17	ND	ND	ND	142	ND
20	Black sponge glue	ND	ND	ND	ND	ND
21	Black rubber block	ND	ND	ND	ND	ND
22	Black rubber ring	ND	ND	ND	215	ND
23	Transparent plastic block 1	ND	ND	ND	ND	ND
24	Transparent plastic block 2	ND	ND	ND	ND	ND
25	Blue plastic gear 1	ND	ND	ND	ND	ND
26	Blue plastic gear 2	ND	ND	ND	ND	ND
27	Blue plastic gear 3	ND	ND	ND	ND	ND
28	Ivory plastic block 1	ND	ND	ND	ND	ND
29	Circuit board	ND	ND	ND	118	NC
30	Silver metal solder tin	ND	ND	ND	NC	NA
31	Yellow rubber wire sheath	ND	ND	ND	150	ND
32	Red rubber wire sheath	ND	ND	ND	ND	ND
33	Grey plastic block 1	ND	ND	ND	ND	ND
34	Grey plastic block 2	ND	ND	ND	ND	ND
35	Ivory plastic block 2	ND	ND	ND	120	ND
36	Silver metal block 1	ND	ND	ND	NC	NA
37	Ivory plastic block 3	ND	ND	ND	505	ND

TEST RESULT

A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
38	Red substrate	ND	ND	ND	NC	NA
39	Silver metal block 2	ND	ND	ND	NC	NA
40	Silver metal wire	ND	ND	ND	NC	NA

Abbreviation:	Pb	denotes Lead
	Cd	denotes Cadmium
	Hg	denotes Mercury
	Cr	denotes Chromium
	Cr(VI)	denotes Chromium(VI)
	Br	denotes Bromine
	PBBs	denotes Total Polybrominated Biphenyls
	PBDEs	denotes Total Polybrominated Diphenyl Ethers
	NA	denotes Not Applicable
	ND	denotes Not Detected (Cd<10mg/kg, Pb/ Hg/ Cr<100mg/kg, Br<300mg/kg)
	NC	denotes Not Conclusive

XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material
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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

TO BE CONTINUED

TEST RESULT

B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013 Ed.1	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1	UV-Vis	0.01 $\mu\text{g}/\text{cm}^2$
	IEC62321-7-2:2017		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed.1	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Boiling-water-extraction for Cr(VI) (*1)
30	Negative
36	Negative
38	Negative
39	Negative
40	Negative

Remark:

(*1) The screening result of Chromium(VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$.The coating is considered a non-Cr(VI) based coating.

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
29	-	-	-	-	ND	ND

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = ppm = parts per million

$\mu\text{g}/\text{cm}^2$ = micrograms per square centimeter

*** END OF THE REPORT ***