

Test Report

No. R011408196R

Date: Aug. 22, 2014

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Applicant : Wintop Electronics Co., Limited
Address : Unit 04 7/F, Bright Way Tower 33, Mong Kok RD KL, HONGKONG

Report on the submitted sample said to be

Sample name : 2.4GHz Wireless Optical Mouse
Type /model : WM-798
Manufacturer : Shenzhen Wintop Electronics Co., Limited
Address : Huaguan Industrial Park, Xinhe Road, Baolai Industrial District,
Shangmugu, Pinghu Town, Longgang District, Shenzhen City, 518000,
China
Sample received date : Aug. 20, 2014
Testing period : Aug. 20, 2014 to Aug. 22, 2014
Test requested : As specified by client, according to the ROHS directive 2011/65/EU, to
screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and
Bromine(Br) in the submitted sample(s) by XRF.

Test Result(s): Please refer to the following page(s).

Signed for and on behalf of Shenzhen Anbotek Compliance Laboratory Limited

Tested by Willow Liu Inspected by Lin Zhang Approved by Sahen Chen

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Test Results(s):

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
1	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
2	Grey plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
3	Orange plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
4	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
5	Red PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
6	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
7	Silver spring	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
8	Black PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
9	Silver screw	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
10	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
11	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
12	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
13	Black rubber	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
14	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
15	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
16	Transparent plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
17	Orange capacitor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
18	Electrolytic capacitor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
19	White LED	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
20	Blue PCB board	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
21	Silver metal	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	/	
22	Black IC	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
23	Yellow resistor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
24	Black plastic	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
25	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
26	Silver metal pin	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
27	Switch	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
28	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
29	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
30	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
31	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
32	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
33	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
34	Green PCB board	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-BL = Under the XRF screening limit

-X= The symbol "X" marks the region where further investigation is necessary.

-OL = Further chemical test will be conducted while the result is above the screening limit.

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

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Remark:

- The screening results are only used for reference.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

Test Method:

Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

Element	Limit of IEC 62321-3-1:2013. (unit: mg/kg)		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10 mg/kg	50 mg/kg
Br	$BL \leq (300-3\sigma) < X$	$BL \leq (250-3\sigma) < X$	10 mg/kg	50 mg/kg

Note:

- BL = Under the XRF screening limit.
- OL = Further chemical test will be conducted while result is above the screening limit.
- X= The symbol "X" marks the region where further investigation is necessary.
- 3 σ = The reproducibility of analytical instruments.
- LOD= Detection limit

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Photograph of Sample



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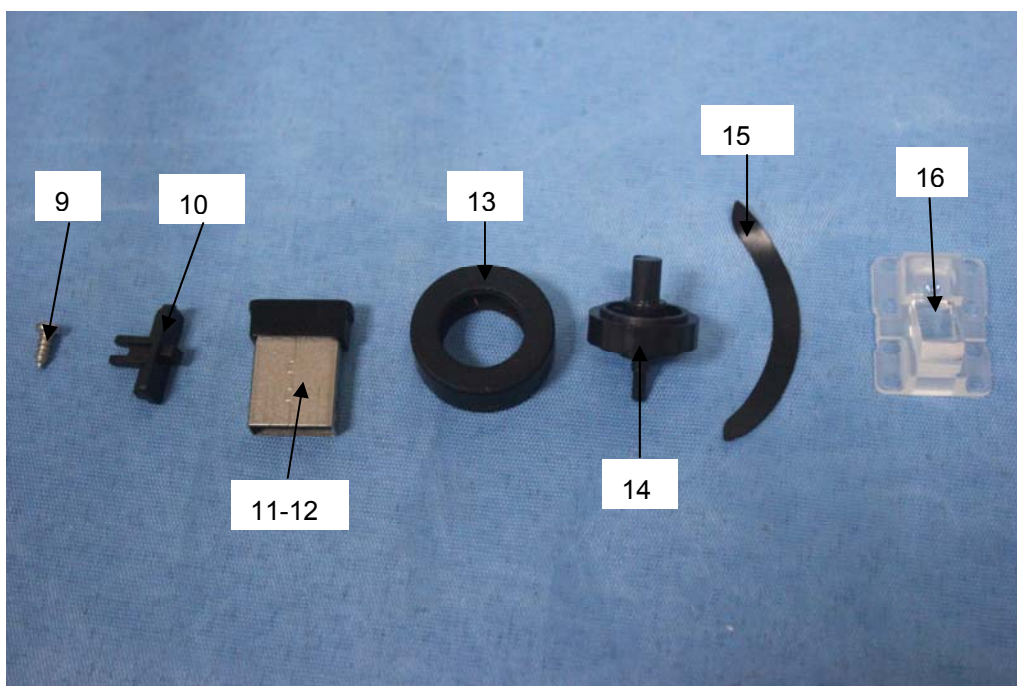
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Photo(s) of the tested component(s)



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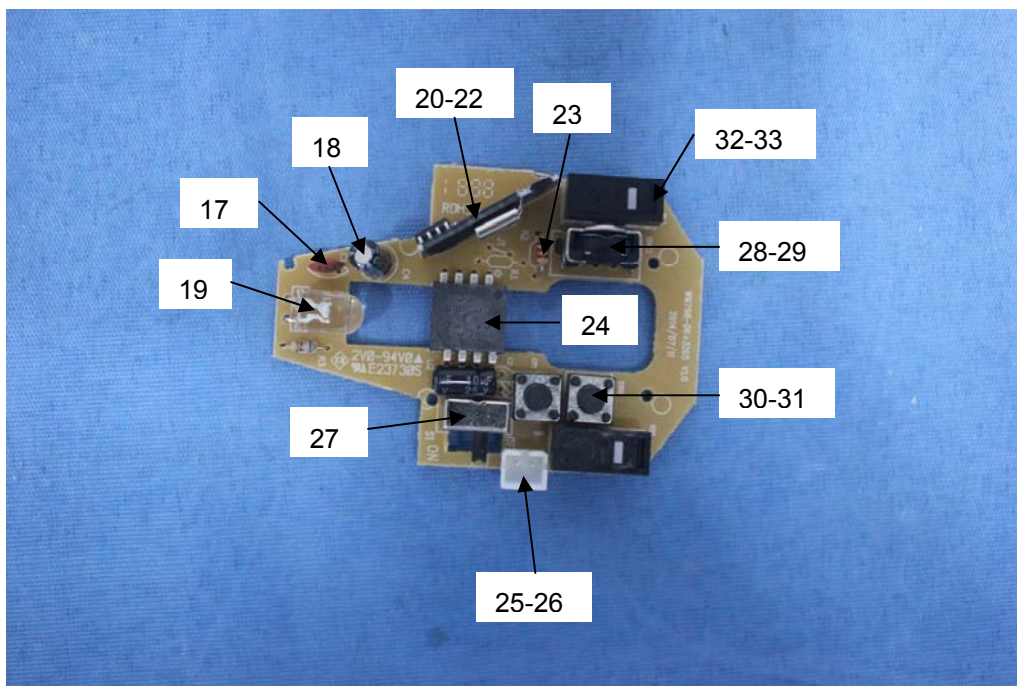
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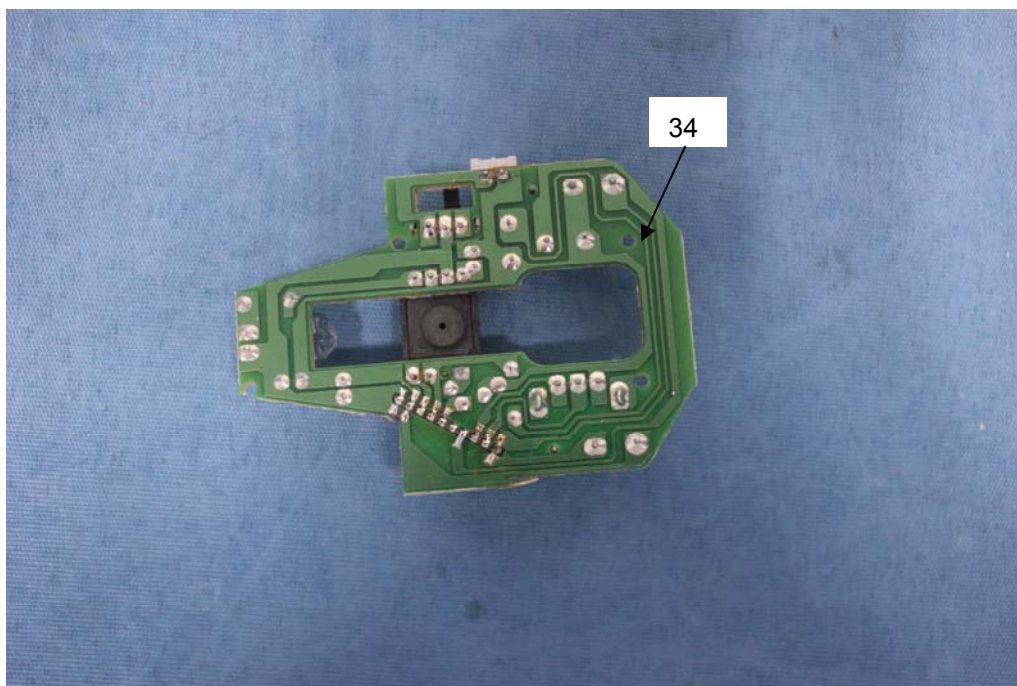
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