

Test Report

No. 201404756R

Date: Apr. 19, 2014

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Applicant : Secukey Technology Co., Ltd.
Address : 3/F, Building 8, Xintang Industrial Park, Fuyong, Bao'an District,
Shenzhen, China

Report on the submitted sample said to be

Sample name : Mini Control Board

Type /model : Sboard

Manufacturer : Secukey Technology Co., Ltd.

Sample received date : Apr. 14, 2014

Testing period : Apr. 14, 2014 to Apr. 19, 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.

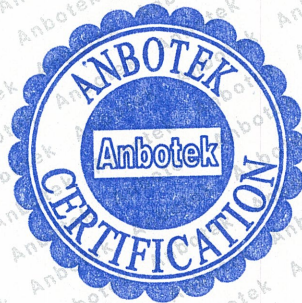
Test Result(s): Please refer to the following page(s).

Signed for and on behalf of Shenzhen Anbotek Compliance Laboratory Limited

Reported by Sanying Lai

Inspected by Sahan Chen

Approved by Lin Zhang
Technical Manager



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Shenzhen Anbotek Compliance Laboratory Limited

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Test Results(s):

Mini Control Board

Sample No.	Sample Description	Tested Items	XRF Screening Test	Conclusion
1	Copper wire	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
2	Black plastic and white printing	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
3	Black 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	BL	
5	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
6	Brown 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	Conclusion
7	Nattier blue plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
8	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
9	Brown capacitance	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
10	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
11	Dark green plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
12	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test	Conclusion
13	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
14	Red 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	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
17	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
18	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test	Conclusion
19	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
20	Blue PCB board	Pb	BL	PASS
		Cd	BL	
		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.

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 62321:2008 Ed.1 Sec.6&Annex D.

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Element	Limit of IEC 62321:2008 Ed.1 Sec.6&Annex D (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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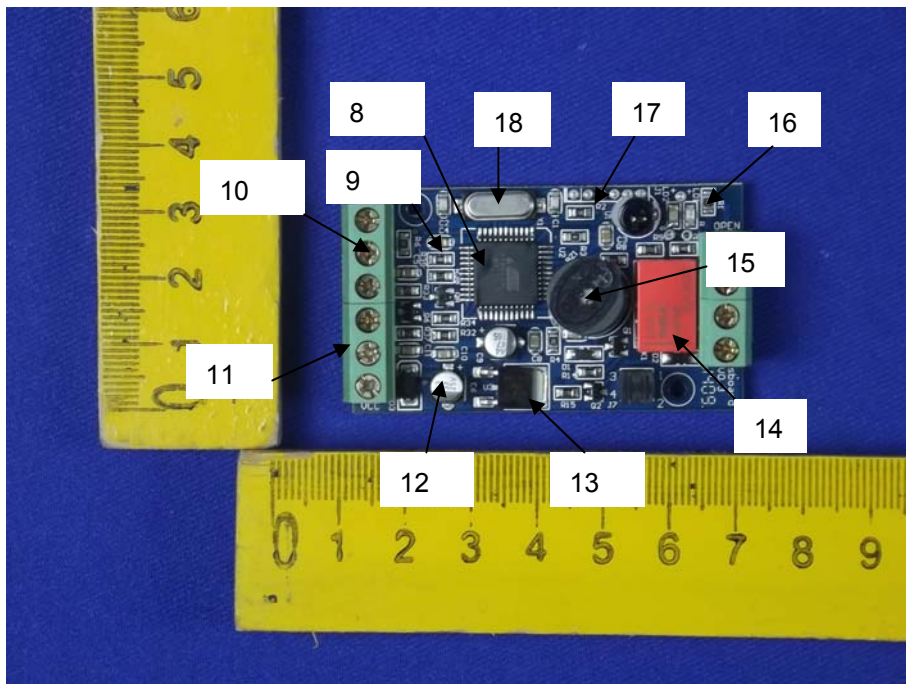
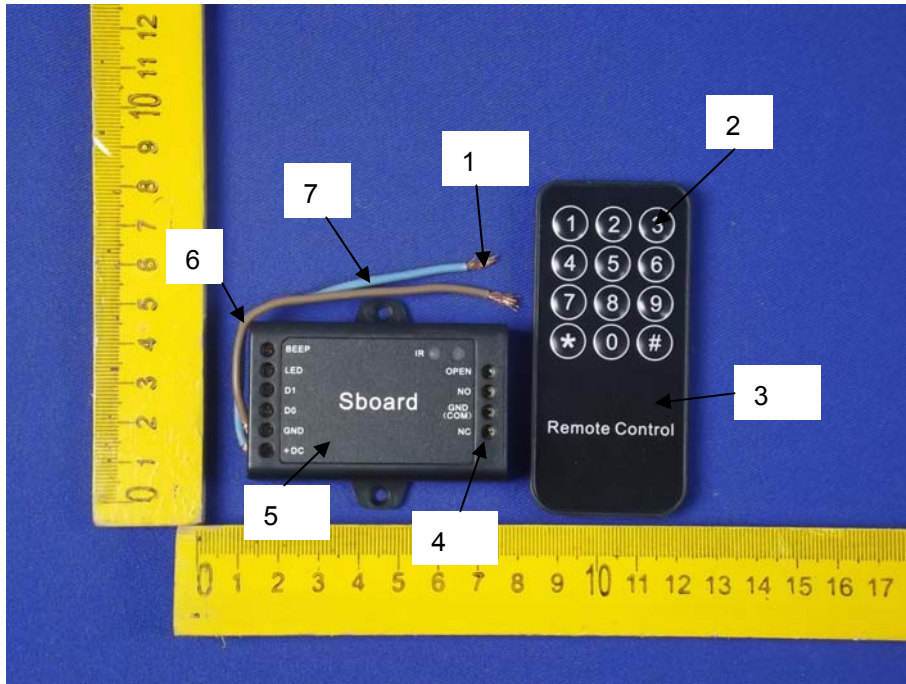
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Photo(s) of the tested component(s)



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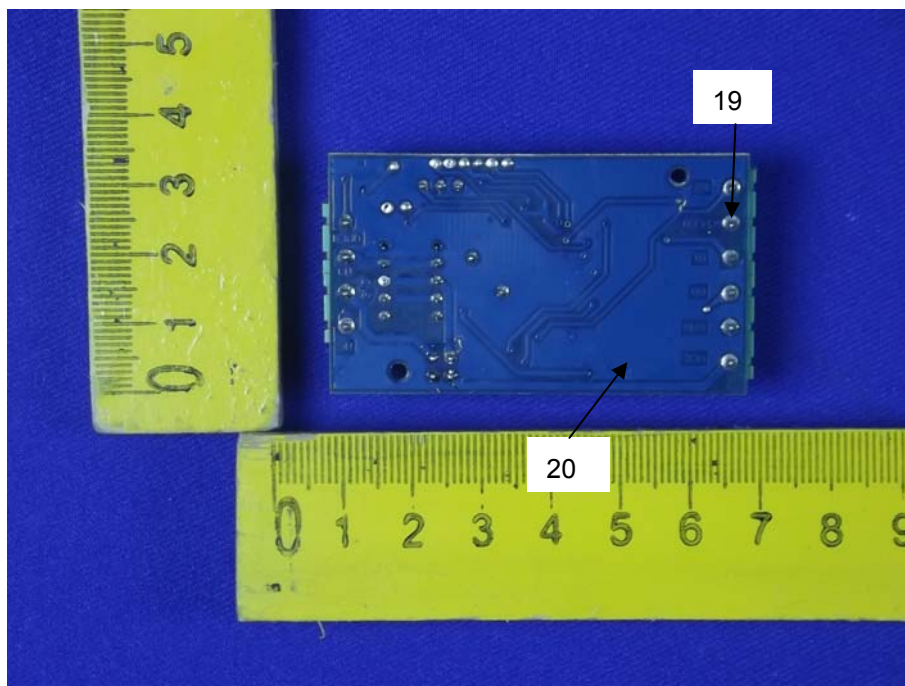
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**** End of Report ****

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