



## Test Report

Report No.: CX/2014/60218

Date: 2014/07/11

NUUO INC.  
B1, NO. 207-1, SEC. 3, BEIXIN RD., XINDIAN DIST., NEW TAIPEI CITY 231,  
TAIWAN (R. O. C.)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : NUUO INC.  
Sample Description : NVRsolo  
Style/Item No. : NS-2040 (NS-2XXX, NVS-2XXX, NS-2XX0, NVS-2XX0, X=EVEN NUMBER)  
Sample Receiving Date : 2014/06/27  
Testing Period : 2014/06/27 to 2014/07/11


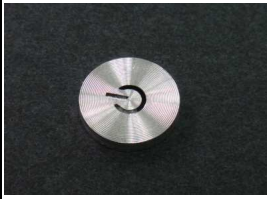

=====  
**Test Result(s)** : Please refer to next page(s).



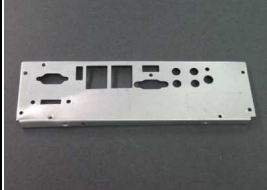




**Conclusion** : Based upon the performed tests on submitted samples, the test results comply with the limits of RoHS Directive 2011/65/EU (Directive 2002/95/EC being recast by Directive 2011/65/EU).

  
  
Ellis Wei, Ph.D. Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

### 1. Material Fraction Composition

Table 1 The results of XRF screening and chemical test (Unit: mg/kg)

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.1 SILVERY METALLIC SCREW		Metals	Pb	751	---	31	---	
					Cd	n.d.		---		
					Hg	n.d.		---		
					Cr	n.d.				
					Br	n.d.				
					Cr(VI)			---		
					PBB			---		
					PBDE			---		
					1.2 SILVERY METALLIC BUTTON			Metals		
	Cd	n.d.	---							
	Hg	n.d.	---							
	Cr	n.d.								
	Br	n.d.								
	Cr(VI)		---							
	PBB		---							
	PBDE		---							
	1.3 RED PLASTIC BUTTON		Polymers	Pb			n.d.		---	---
				Cd	n.d.	---				
Hg				n.d.	---					
Cr				n.d.						
Br				n.d.						
Cr(VI)					---					
PBB					---					
PBDE					---					

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.4	BLACK METALLIC FRAME 	Metals	Pb	n.d.		---	---	
					Cd	n.d.				
					Hg	n.d.				
					Cr	151				
					Br	n.d.				
					Cr(VI)					
					PBB					
					PBDE					
		1.5	SILVERY METALLIC FRAME 	Metals	Pb	n.d.		Negative	---	---
					Cd	n.d.				
					Hg	n.d.				
					Cr	1360				
					Br	n.d.				
					Cr(VI)					
					PBB					
					PBDE					
	1.6	SILVERY METALLIC FRAME WITH BLACK PRINT 	Metals	Pb	n.d.		---	---	---	
				Cd	n.d.					
				Hg	n.d.					
				Cr	n.d.					
				Br	n.d.					
				Cr(VI)						
				PBB						
				PBDE						
	1.7	SILVERY METALLIC FRAME WITH BLACK PRINT 	Metals	Pb	n.d.		---	---	---	
				Cd	n.d.					
				Hg	n.d.					
				Cr	n.d.					
				Br	n.d.					
				Cr(VI)						
				PBB						
				PBDE						



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Test Item :	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method
	Category Element	Polymers	Composite Material	Metals		
XRF (X-ray fluorescence)	Pb	50	100	100	500	With reference to IEC 62321-3-1: 2013
	Cd	50	50	50	50	
	Hg	50	100	100	500	
	Cr	50	100	100	500	
	Br	50	100	n.a.	250	

Test Item (s):	Test method	MDL (mg/kg)	Facilities
Cr(VI)	With reference to IEC 62321: 2008 (For Polymers and Electronics)	2	UV
	With reference to IEC 62321: 2008 (For Coatings on Metals)	-*	-
Pb/Cd	With reference to IEC 62321-5: 2013	2	ICP-AES
Hg	With reference to IEC 62321-4: 2013	2	ICP-AES

Test Item (s):	Unit	Method	MDL (mg/kg)	
<b>PBBs</b>				
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008. Determination of PBB and PBDE by GC/MS.	5	
Dibromobiphenyl	mg/kg		5	
Tribromobiphenyl	mg/kg		5	
Tetrabromobiphenyl	mg/kg		5	
Pentabromobiphenyl	mg/kg		5	
Hexabromobiphenyl	mg/kg		5	
Heptabromobiphenyl	mg/kg		5	
Octabromobiphenyl	mg/kg		5	
Nonabromobiphenyl	mg/kg		5	
Decabromobiphenyl	mg/kg		5	
<b>PBDEs</b>				
Monobromodiphenyl ether	mg/kg		5	
Dibromodiphenyl ether	mg/kg		5	
Tribromodiphenyl ether	mg/kg		5	
Tetrabromodiphenyl ether	mg/kg	5		
Pentabromodiphenyl ether	mg/kg	5		
Hexabromodiphenyl ether	mg/kg	5		
Heptabromodiphenyl ether	mg/kg	5		
Octabromodiphenyl ether	mg/kg	5		
Nonabromodiphenyl ether	mg/kg	5		
Decabromodiphenyl ether	mg/kg	5		

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1. mg/kg = ppm
2. n.d. = not detected or lower than MDL
3. MDL = Method detection limit
4. "---" = not conducted
5. n.a. = not applicable
6. \_\*:

### Spot-test:

Negative = Absence of Cr(VI) coating,

Positive = Presence of Cr(VI) coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

### Boiling-water-extraction:

Negative = Absence of Cr(VI) coating

Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.

7. The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer.
8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample will be conducted chemical test directly.
9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.

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