

Shenzhen ETR Standard Technology Co., Ltd.

Report No.: ET-ROHS16125402

Page: 1 of 9

2mg/kg

2mg/kg

CONSOLIDATED TEST REPORT

Applicant: Guangzhou FriendlyElec Technology Co., Limited

Room 4313, Block B, China Shine Plaza, No. 9 Lin He Xi Road, Address:

Tianhe District, Guangzhou, Guangdong, PR China

EUT Name: NanoPi NEO Air

Model No. NanoPi NEO Air

Brand Name: N/A

Issue Date: 2016-12-29

> With reference to IEC 62321 Ed 1.0: 2013 MDL

Determination of Lead (Pb) by ICP- OES 2mg/kg

Test Method (If tested):

Determination of Cadmium (Cd) by ICP- OES

Determination of Mercury (Hg) by ICP-OES

Determination of Chromium (Cr⁶⁺) by UV-VIS 2mg/kg

Determination of PBBs / PBDEs by GC-MS 5mg/kg

Directive: 2011/65/EU

Based on the performed test on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent Chromium Cr(VI), PBBs and PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC and

Remark:

the tested submitted sample complied with the requirements of Directive

2006/66/EC.



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Page: 2 of 9

1 General Information

1.1 Client Information

Applicant : Guangzhou FriendlyElec Technology Co., Limited

Address Room 4313, Block B, China Shine Plaza, No. 9 Lin He Xi Road,

Tianhe District, Guangzhou, Guangdong, PR China

Manufacturer : Guangzhou FriendlyElec Technology Co., Limited

Address Room 4313, Block B, China Shine Plaza, No. 9 Lin He Xi Road,

Tianhe District, Guangzhou, Guangdong, PR China

EUT Name : NanoPi NEO Air Model No. : NanoPi NEO Air

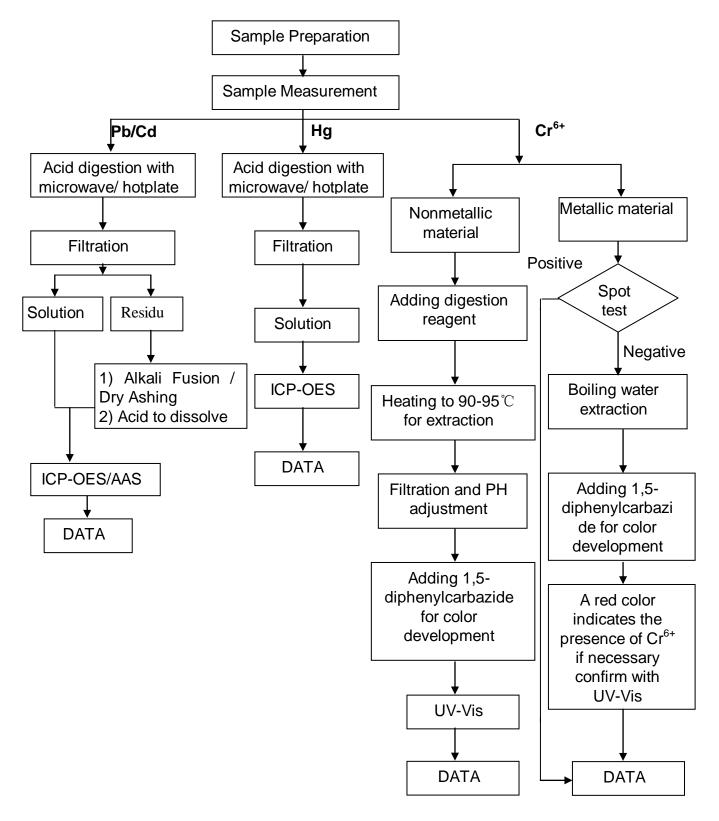
1.2 Test Facility

The testing report were performed by the Shenzhen ETR Standard Technology Co., Ltd., in their facilities located at 5/F, Bldg. A, The Third Industrial Zone Zhuao, No.1 Road Gushu, Xixiang Street, Bao'an District, Shenzhen, China.

Page: 3 of 9

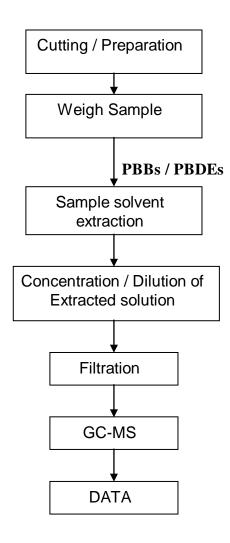
2 Test Flow:

2.1 To Determine Lead/Cadmium/Mercury/ Hexavalent Chromium Content:



Page: 4 of 9

2.2 To Determine PBBs/PBDEs Content:



Page: 5 of 9

3 Test Result:

		Form of ev			
No.	Part Of Sample	Test Laboratory	Report No.	Verdict	
1	Shell	SGS	SHAEC1605782313	Pass	
2	Switch Button	SGS	GZ1211302178/CHEM	Pass	
3	РСВ	SGS	SHAEC1600081702	Pass	
4	Plug-resistance	SGS	SHACE1522698102	Pass	
5	Chip Resistor	SGS	CANEC1308548701	Pass	
6	Chip Capacitors	SGS	KA/2015/10621	Pass	
7	Inductance	SGS	CANEC1301261603	Pass	
8	Crystal	SGS	CE/2014/B0138	Pass	
9	SMD crystal	SGS	CANEC1304692601	Pass	
10	SMD diode	SGS	SHAEC1321669505	Pass	
11	Wire	SGS	CANEC1400341301	Pass	
12	Display Glass	SGS	TSNEC1400701202	Pass	
13	Protective Film	SGS	CANEC1421657002	Pass	
14	Ink	SGS	SHAEC1502300801	Pass	
15	Screw	SGS	CANEC1401667501	Pass	
16	USB interface steel section	SGS	CANEC1408645401	Pass	
17	Solder	SGS	CANEC1407966506	Pass	
18	Copper wire	SGS	JP/2014/041480	Pass	

Page: 6 of 9

3.1) Test Result: Heavy Metals (Pb, Cd, Cr6+, Hg) Tests

Element	Pb	Cd	Cr ⁶⁺	Hg
Limit:	1000(mg/kg)	100(mg/kg)	1000(mg/kg)	1000(mg/kg)
1	N.D.	N.D.	N.D.	N.D.
2	N.D.	N.D.	N.D.	N.D.
3	N.D.	N.D.	N.D.	N.D.
4	N.D.	N.D.	N.D.	N.D.
5	N.D.	N.D.	N.D.	N.D.
6	N.D.	N.D.	N.D.	N.D.
7	N.D.	N.D.	N.D.	N.D.
8	N.D.	N.D.	N.D.	N.D.
9	N.D.	N.D.	N.D.	N.D.
10	N.D.	N.D.	N.D.	N.D.
11	N.D.	N.D.	N.D.	N.D.
12	N.D.	N.D.	N.D.	N.D.
13	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.
16	N.D.	N.D.	N.D.	N.D.
17	N.D.	N.D.	N.D.	N.D.
18	N.D.	N.D.	N.D.	N.D.

^{◆ &}quot;N.D." means "Not Detected", method detection limit = 2mg/kg.

^{• &}quot; * " means be exempted from RoHS Directive.

Page: 7 of 9

3.2) Test Result: Brominated Flame Retardants (PBBs&PBDEs) Tests

PBBs	1	2	3	4	5	6	7
Monobromobiphenyl	N.D.						
Dibromobiphenyl	N.D.						
Tribromobiphenyl	N.D.						
Tetrabromobiphenyl	N.D.						
Pentabromoniphenyl	N.D.						
Hexqbromobiphenyl	N.D.						
Heptabromobiphenyl	N.D.						
Octabromobiphenyl	N.D.						
Nonabromobiphenyl	N.D.						
Decabromobiphenyl	N.D.						
Sum of PBBs	N.D.						
PBDEs	1	2	3	4	5	6	7
Monobromodiphenyl Ether	N.D.						
Dibromodiphenyl Ether	N.D.						
Tribromodiphenyl Ether	N.D.						
Tetrabromodiphenyl Ether	N.D.						
Pentabromoniphenyl Ether	N.D.						
Hexabromodiphenyl Ether	N.D.						
Heptabromodiphenyl Ether	N.D.						
Octabromodiphenyl Ether	N.D.						
Nonabromodiphenyl Ether	N.D.						
Decabromodiphenyl Ether	N.D.						
Sum of PBDEs	N.D.						

Page: 8 of 9

PBBs	8	9	10	11	12	13	14
Monobromobiphenyl	N.D.						
Dibromobiphenyl	N.D.						
Tribromobiphenyl	N.D.						
Tetrabromobiphenyl	N.D.						
Pentabromoniphenyl	N.D.						
Hexqbromobiphenyl	N.D.						
Heptabromobiphenyl	N.D.						
Octabromobiphenyl	N.D.						
Nonabromobiphenyl	N.D.						
Decabromobiphenyl	N.D.						
Sum of PBBs	N.D.						
PBDEs	8	9	10	11	12	13	14
Monobromodiphenyl Ether	N.D.						
Dibromodiphenyl Ether	N.D.						
Tribromodiphenyl Ether	N.D.						
Tetrabromodiphenyl Ether	N.D.						
Pentabromoniphenyl Ether	N.D.						
Hexabromodiphenyl Ether	N.D.						
Heptabromodiphenyl Ether	N.D.						
Octabromodiphenyl Ether	N.D.						
Nonabromodiphenyl Ether	N.D.						
Decabromodiphenyl Ether	N.D.						
Sum of PBDEs	N.D.						

[◆] PBBs Limit = 1000 ppm, PBDEs Limit = 1000 ppm.

^{• &}quot;N.D." means "Not Detected", method detection limit = 5mg/kg.

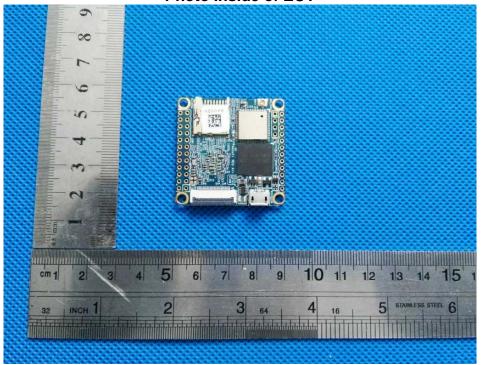
Page: 9 of 9

4 Photographs - Constructional Details





Photo Inside of EUT



END OF REPORT