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Applicant: Next Thing Co.

Address:

Report on the submitted sample(s) said to be:

Sample Name: CHIP PRO

Sample Model: 100456

Country of Origin: P.R.C

Manufacturer: Next Thing Co.

Sample Received Date: Oct.19,2016

Testing Period: Oct.19,2016 to Nov.22,2016

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

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

Tested by: Felix.Li

Liwenlong, Felix.Li

Figure Com

Test Engineer Laboratory Manager

Liulinwen, Lewis

Technical Director



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Jiangyuncheng, Jason

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Test Requested:

1.As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

2.As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321:2008 Ed 1.0 Annex C	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321:2008 Ed 1.0 Annex B	UV-Vis	/
PBBs/PBDEs	IEC 62321:2008 Ed 1.0 Annex A	GC-MS	5 mg/kg

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Test Results:

1. For the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content

EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.			Re	sults(mg/l	kg)	
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
1	Metal cover	BL	BL	BL	BL	G#
2	Patch inductor	BL	BL	BL	BL	BL
3	Patch inductor(2R2)	BL	BL	BL	BL	BL
4	Patch crystal	BL	BL	BL	BL	BL
5	Patch capacitor	BL	BL	BL	BL	BL
6	Patch Antenna	BL	BL	BL	BL	BL
7	Metal ring(Antenna pedestal)	BL	BL	BL	BL	G # 10
8	White plastic seat(Antenna pedestal)	BL	BL	BL	BL	BL
9	Patch LED	BL	BL	BL	BL	BL
10	Patch triode	BL	BL	BL	BL	BL
11	Patch IC(CR8)	BL	BL	BL	BL	BL
12	Patch IC(AxP209)	BL	BL	BL	BL	BL
13	Patch resistor(Bluetooth board)	BL	BL	BL	BL	BL
14	Patch capacitor(Bluetooth board)	BL	BL	BL	BL	BL
15	Patch IC(Bluetooth board)	BL	BL	BL	BL	BL
16	Patch crystal(Bluetooth board)	BL	BL	BL	BL	BL
17	Module PCB board(Bluetooth board)	BL	BL	BL	BL	X*
18	IC Ontology(16299AE)	BL	BL	BL	BL	BL
19	Pin(16299AE)	BL	BL	BL	BL	E The Com
20	Patch IC	BL	BL	BL	BL	BL
21	Solder resistance(PCB board)	BL	BL	BL	BL	BL
22	Substrate(PCB board)	BL	BL	BL	BL	X*
23	Copper foil(PCB board)	BL	BL	BL	BL	C- Mark
24	Tin solder(PCB board)	BL	BL	BL	BL	-

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Seq.	T (I D (()	# 3N	Re	sults(mg/	kg)	F N Global Con
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
25	Metal shell(Android plug)	BL	BL	BL	BL	-
26	Black inner glue(Android plug)	BL	BL	BL	BL	BL
27	Pin(Android plug)	BL	BL	BL	BL	G
28	Black plastic button(Light touch switch)	BL	BL	BL	BL	BL
29	Metal shell(Light touch switch)	BL	BL	BL	X*	The Manual of the State of the
30	Brown adhesive tape(Light touch switch)	BL	BL	BL	BL	BL
31	Shrapnel(Light touch switch)	BL	BL	BL	X*	
32	Black plastic seat(Light touch switch)	BL	BL	BL	BL	BL
33	Pin(Light touch switch)	BL	BL	BL	BL	G Filestation

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>- 1</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	- 1	BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

OL= Over limited X= Inconclusive

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[&]quot;-"= Not regulated

^{*=} Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.



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Remark:

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. The Test Results of Chemical Method:

1)The Test Results of metal Cr⁶⁺

T 14 (.)	MDI	Resi	ult(s)	T **4
Test Item(s)	MDL	29	31	Limit
Metal Hexavalent Chromium (Cr ⁶⁺)	**	Negative	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- ** = Spot-test:

Negative = Absence of Cr(VI) coating/ surface layer

Positive = Presence of Cr(VI) coating/ surface layer

(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/ surface layer

The detected concentration in boiling- water-extraction solution is less than 0.02 mg/kg with 50cm² sample surface areas.

Positive = Presence of Cr(VI) coating/ surface layer

The detected concentration in boiling- water-extraction solution is equal or greater than 0.02 mg/kg with 50cm² sample surface areas.

- #=

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.

Positive indicates the presence of Cr(VI) on the tested areas.

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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2) The Test Results of PBBs & PBDEs

Unit:mg/kg

The second secon	MDI	Res	ult(s)	GU
Item(s)	MDL	17	22	Limit
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.	N.D.	E station of Clothan
Dibromobiphenyl	5	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	173
Tetrabromobiphenyl	5	N.D.	N.D.	The Table
Pentabromobiphenyl	5	N.D.	N.D.	CT Million DDD
Hexabromobiphenyl	Compliance 5	N.D.	N.D.	Total PBBs Content <1000
Heptabromobiphenyl	5	N.D.	N.D.	Content \1000
Octabromobiphenyl	5	N.D.	N.D.	THE THE
Nonabromodiphenyl	5	N.D.	N.D.	20°
Decabromodiphenyl	5	N.D.	N.D.	
Total content	Allestanta /	N.D.	N.D.	in the second
Polybrominated Diphenylethers (PBDE	Cs)			
Monobromodiphenyl ether	5	N.D.	N.D.	The philot of Glob
Dibromodiphenyl ether	5	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	-31
Tetrabromodiphenyl ether	5	N.D.	N.D.	E TO
Pentabromodiphenyl ether	5 minutes	N.D.	N.D.	TALINDDE
Hexabromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content < 1000
Heptabromodiphenyl ether	5	N.D.	N.D.	Content \1000
Octabromodiphenyl ether	5	N.D.	N.D.	The Computer of
Nonabromodiphenyl ether	5	N.D.	N.D.	Magazina of Car
Decabromodiphenyl ether	5	N.D.	N.D.	10
Total content	391	N.D.	N.D.	*
Conclusion	/	Pass	Pass	_ /= 3/h

Note: N.D. = Not Detected or less than MDL

mg/kg = ppm= parts per million MDL = Method Detection Limit

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2. For the DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Test Item(s)	Test Method/	MDI		Result(s)				T ::4
	Equipment	MDL	2	3	4	5	6	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	e (DBP) Refer to EN 14372:2004 GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		97	Pass	Pass	Pass	Pass	Pass	1

Unit: mg/kg

The Thomas of the state of the	Test Method/	MDI	Allesto	N.C	Result(s)			I imit
Test Item(s)	Equipment	MDL	8	9	10	11	12	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	The transferred	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)	Refer to	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	EN 14372:2004	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		To Marie	Pass	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

The state of the s	Test Method/	MDI		Result(s)				T ::4
Test Item(s)	Equipment	MDL	13	14	15	16	17	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	EN 14372:2004	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	The state of the s	97	Pass	Pass	Pass	Pass	Pass	1

Unit: mg/kg

The state of the s	Test Method/	N.D.I	Alleste	\C	Result(s)		Limit
Test Item(s)	Equipment	MDL	18	20	21	22	26	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to EN 14372:2004	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		To Marie	Pass	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

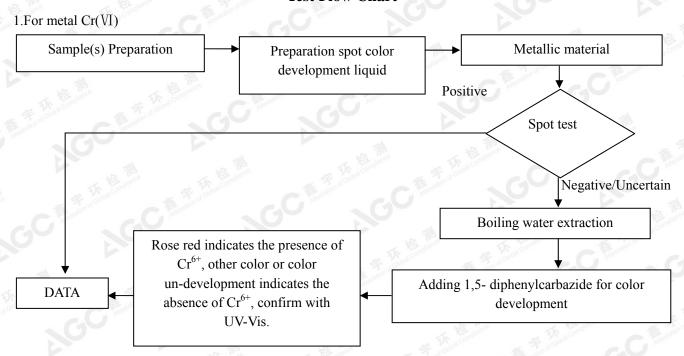
The Calledon of the Calledon	Test Method/) m	CO	Result(s)	Limit	
Test Item(s)	Equipment	MDL	28	30	32	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to	100	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)	EN 14372:2004	100	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)	GC-MS	100	N.D.	N.D.	N.D.	1000
Conclusion	Co just		Pass	Pass	Pass	1

1. MDL=Method Detection Limit Note:

2. N.D.=Not Detected(less than method detection limit)

3. mg/kg = ppm=parts per million

Test Flow Chart

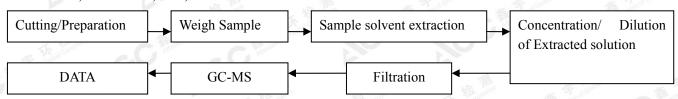


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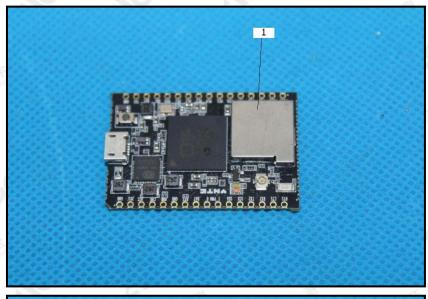


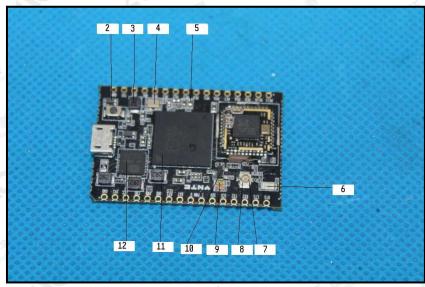
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2.For PBBs,PBDEs DBP, BBP, DEHP and DIBP



The photo of the sample

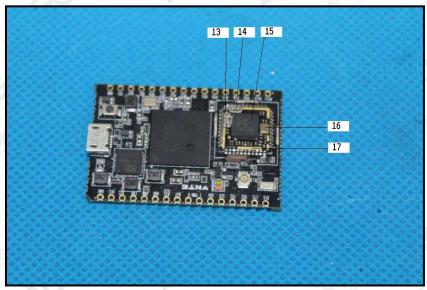




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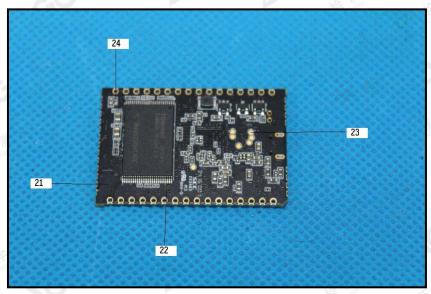


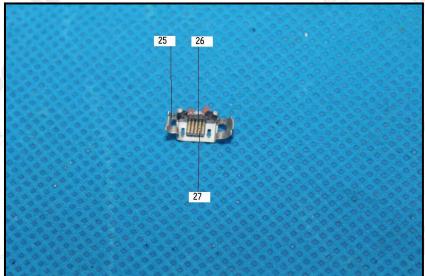
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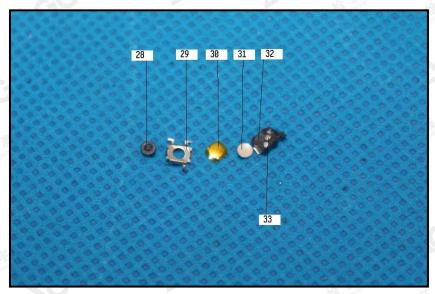


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