

Applicant: Huizhou jinghao Medical Technology Co., Ltd.

Address: Floor 6, Huicheng Industry Building, No.9 Huifeng Dong'er Road, Zhongkai

High-tech Zone, Huizhou City, Guangdong Province, China

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

Sample Name : Hearing AIDS and Charging boxes

Sample Model : JH-D26(HA-70)

Trademark : N/A

Manufacturer : Huizhou jinghao Medical Technology Co., Ltd.

Address : Floor 6, Huicheng Industry Building, No. 9 Huifeng Dong'er Road, Zhongkai

High-tech Zone, Huizhou City, Guangdong Province, China

Sample Received Date : Oct. 31, 2019

Testing Period : Oct. 31, 2019 to Nov. 11, 2019

Test Method : 1.Screening test method: IEC62321-3-1:2013/XRF

2.Wet chemical test method

Lead(Pb): IEC62321-5:2013/ICP-OES

Cadmium(Cd): IEC62321-5:2013/ICP-OES

Mercury(Hg): IEC62321-4:2013+A1: 2017/ICP-OES

Hexavalent Chromium(CrVI): IEC62321-7-1:2015/UV-VIS and

IEC62321-7-2:2017/UV-VIS

Polybrominated Biphenyls (PBBs):IEC62321-6:2015 /GC-MS

Polybrominated Biphenyl Ethers(PBDEs): IEC62321-6:2015 /GC-MS

3. Phthalates: IEC62321-8:2017 /GC-MS

Test Results : Refer to the next page(s).

Test Requested	Conclusion
{1}RoHS Directive 2011/65/EU Annex II – Lead(Pb), Cadmium(Cd),	PASS
Mercury(Hg), Hexavalent Chromium(CrVI), Polybrominated Biphenyls (PBBs),	
Polybrominated Biphenyl Ethers(PBDEs)	
{2} RoHS Directive (EU)2015/863 amending Annex II - Dibutyl phthalate (DBP), Butyl	PASS
benzyl phthalate(BBP), Bis-(2-ethylhexyl)phthalate(DEHP), Di-iso-butyl	
ortho-phthalate(DIBP)	

Report No.: NCT19044324XR1-1 Page 1 of 7



Test by: Inspected by:

Approved by:

Date: Nov. 11, 2019

{1} Pb ... Cd., Hg., CrVI., PBBs., PBDEs Test Results:

Part No.	Results	Cd	Pb	Hg	Cr ⁶⁺	PBBs	PBDE s	Conclusion on RoHS
	EDXRF	BL	BL	BL	BL	BL	BL	
1	Wet Chemical Testing	سر				7-	7-1	Comply
2	EDXRF	BL	BL	BL	BL	BL	BL	-
2	Wet Chemical Testing			7.3	<u> </u>		6	Comply
	EDXRF	BL	BL	BL	BL	BL	BL	11-
3	Wet Chemical Testing	/	/				1/	Comply
	EDXRF	BL	BL	BL	BL	BL	BL	
4	Wet Chemical Testing		\		:		4	Comply
	EDXRF	BL	BL	BL	BL	BL	BL .	1
5	Wet Chemical Testing	1	λ_{-}	1	Ar		7-7	Comply
	EDXRF	BL	BL	BL	BL	BL	BL	
6	Wet Chemical Testing	10	2-0	08		(F.)	Q	Comply
-	EDXRF	BL	BL	BL	BL	BL	BL	/
7	Wet Chemical Testing	- "			3	5	//	Comply
0	EDXRF	BL	BL	BL	BL	BL	BL	_
8	Wet Chemical Testing				55 /1			Comply
•	EDXRF	BL	BL	BL	BL	BL	BL	
9	Wet Chemical Testing							Comply
40	EDXRF	BL	BL	BL	BL	BL	BL	
10	Wet Chemical Testing				:			Comply
4.4	EDXRF	BL	BL	BL	BL	BL	BL	
11	Wet Chemical Testing							Comply

Report No.: NCT19044324XR1-1

Page 2 of 7 Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn



Part No.	Results	Cd	Pb	Hg	Cr ⁶⁺	PBBs	PBDE s	Conclusion on RoHS
12	EDXRF	BL	BL	BL	BL	BL	BL	
	Wet Chemical Testing				:			Comply
2000	EDXRF	BL	BL	BL	BL	BL	BL	
13	Wet Chemical Testing							Comply
	EDXRF	BL	BL	BL	BL	BL	BL	
14	Wet Chemical Testing	= +	in	a- 7	-		-	Comply
15	EDXRF	BL	BL	BL	BLC	BL	BL	
	Wet Chemical Testing					1/0	-/	Comply
	EDXRF	BL	BL	BL	BL	BL	BL	-
16	Wet Chemical Testing					7-	0	Comply
	EDXRF	BL	BL	BL	BL	BL	BL	\\-
17	Wet Chemical Testing	-4	/		<u> </u>		7-7	Comply
40	EDXRF	BL	BL	BL	BL	BL	BL	
18	Wet Chemical Testing		\	(-)		Nº Jo	7-0	Comply
19	EDXRF	BL	BL	BL	BL	BL	BL	_
	Wet Chemical Testing			-	<u> </u>	N	4-1-	Comply

Report No.: NCT19044324XR1-1 Page 3 of 7
Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn



Remark:

- (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr6+.
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb,Hg), UV-VIS (for CrVI) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (Unit: mg/kg)

Element	Polymer	Metal	Composite Materials		
Cd	BL≤(70-3σ) <x<(130+30σ)≤ol< td=""><td colspan="3">LOD<x<(150+30σ)≤ol< td=""></x<(150+30σ)≤ol<></td></x<(130+30σ)≤ol<>	LOD <x<(150+30σ)≤ol< td=""></x<(150+30σ)≤ol<>			
Pb	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(500-3σ) <x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<>		
Hg	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(700-3σ) <x<(1300+30σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<></td></x<(1300+30σ)≤ol<>	BL≤(500-3σ) <x<(1300+30σ)≤ol< td=""></x<(1300+30σ)≤ol<>		
Br	BL≤(300-3σ) <x< td=""><td></td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>		BL≤(250-3σ) <x< td=""></x<>		
Cr	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<>		

- (c) BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection,
- (d)The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition
- (e) mg/kg = ppm = 0.0001%, N.D. = not detected (<MDL), --- = not conducted
- (f) Unit and Method Detection Limit (MDL) in wet chemical test:

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr6+ for polymer & composite sample is 2 mg/kg.

(g) According to IEC 62321:2008, result on Cr6+ for metal sample is shown as Positive/Negative. Positive = Presence of Cr6+ coating, Negative = Absence of Cr6+ coating.

Report No.: NCT19044324XR1-1 Page 4 of 7

Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn



{2} Phthalates Test Results

Test Method: Refer to EN14372:2004 and use GC-MS to perform the test

Test Item	CAS No.	Test Method / Instrument	MDL (%)	Limit (%)
Dibutyl phthalate (DBP)	84-74-2	IEC 62321-8:2017 / GC-MS	0.005	0.1
Butyl benzyl phthalate (BBP)	85-68-7	IEC 62321-8:2017 / GC-MS	0.005	0.1
Bis-(2-ethylhexyl)phthal ate (DEHP)	117-81-7	IEC 62321-8:2017 / GC-MS	0.005	0.1
Di-iso-butyl ortho-phthalate (DIBP)	84-69-5	IEC 62321-8:2017 / GC-MS	0.005	0.1

Test Item	CAS No.		Result (%)					
5 01/2		1	2	3	6	8	9	10
Dibutyl phthalate (DBP)	84-74-2	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Butyl benzyl phthalate(BBP)	85-68-7	N.D	N.D	N.D	N.D	N.D.	N.D	N.D
Bis-(2-ethylhexyl) phthalate (DEHP)	117-81-7	N.D	N.D	N.D	N.D	N.D	N.D	N.D
Di-iso-butyl ortho-phthalate (DIBP)	84-69-5	N.D	N.D	N.D	N.D	N.D	N.D	N.D

Note:

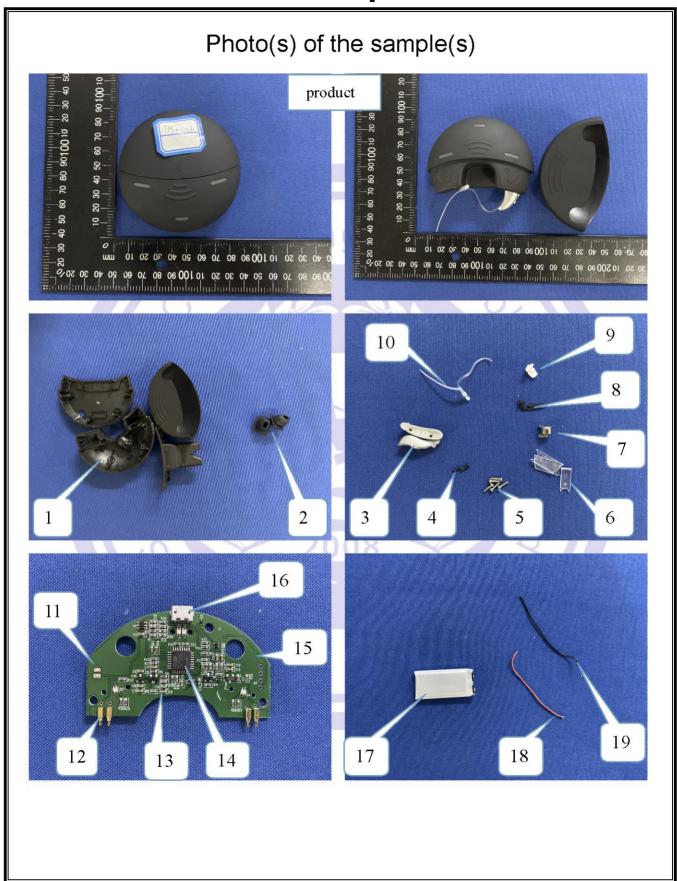
(1) 1 mg/kg = 1 ppm = 0.0001%

(2) N.D. = Not Detected (less than MDL)

(3) MDL = Method Detection Limit

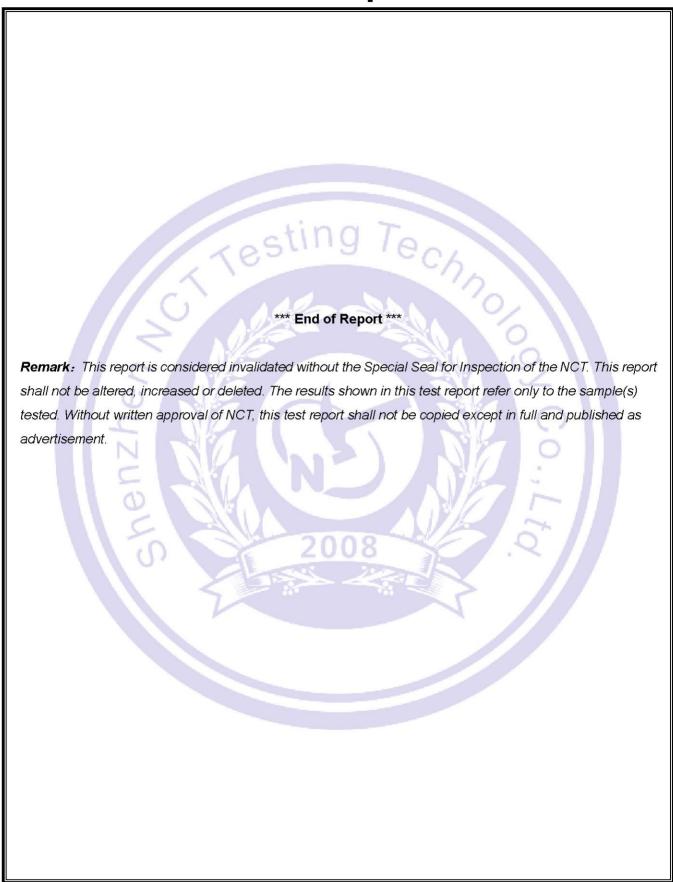
Report No.: NCT19044324XR1-1 Page 5 of 7
Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn





Report No.: NCT19044324XR1-1 Page 6 of 7
Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn





Report No.: NCT19044324XR1-1 Page 7 of 7

Hotline: 400-8868-419 Tel: 86-755- 27790922 http://www.nct-testing.cn