Test Report

Applicant:	Nedis BV
Address:	De Tweeling28, 5215 MC's-Hertogenbosch, The Netherlands
Test site:	1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

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

Sample Name	:	Please refer to following page(s).
Test model No.	:	Please refer to following page(s).
Series model	:	Please refer to following page(s).
Difference between test model and series model	:	Please refer to following page(s).
Brand	:	Please refer to following page(s).
Manufacturers	:	Full Strike Ltd.
Address	:	2801 International Technology Building,Shennan Road, Futian Dist., Shenzhen, 518033 PRC
Sample Received Date:	:	May 17, 2019
Testing Period	:	May 17, 2019 to Jul.10, 2019

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

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

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

Approved by:

Liulinwen, Lewis

Technical Director

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Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

Sample Name	Cable/Adapter			
		Full strike article no.		
		COM009-19		
		VCG629/10M		
		COM009-11		
		COM009-12		
		COM009-13		
		COM009-14		
		COM009-15		
		COM009-16		
		COM009-17		
		COM009-18		
		COM009-20		
		COM010-11		
		COM011-11		
		COM011-12		
		COM011-13		
		COM011-14		
		COM011-15		
		COM011-16		
		COM011-17		
		COM011-18		
		COM011-19		
		COM011-20		
		COM011-21		
		COM010-12		
		COM012-11		
		COM012-12		
		COM008/10M		
		COM008/5M		
		COM007/2m		
		VCG-603/1M		
		VCG-603/10M		
		VCG-603/1.5M		
		VCG-603/2M		
		VCG-603/3M		
		VCG-603/5M		
		VCG629/1M		

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Test Report

Report No.: AGC07922190501-007 Date: Jul.12, 2019

		VCG629/2M		
		VCG629/3M		
		VCG629/5M		
		VCG291B/1M		
		VCG291B/2M		
		RCAB04/1M		
		RCAB04/10M		
		RCAB04/1.5M		
		RCAB04/2M		
		RCAB04/3M		
		RCAB04/5M		
		RCA0304/10M		
		RCA0304/2M		
		RCA0304/5M		
		VCG-603C/1M		
		VCG-603C/2M		
		VCG629/1M		
		VCG629/10M		
		VCG629/2M		
		VCG629/3M		
		VCG629/5M		
		VCG291B/1M		
		VCG291B/2M		
Differences description	As declared by client, Series models and EUT are identical with same materials except appearance and length; Fullstrike model number,Nedis model number, Distrelec model number and TOK model number are identical except brand.			

Test Requested:	**Conclusion**
1.As specified by client, to determine the Pb, Cd, Hg, Cr^{6+}, 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.	**Pass**
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.	**Pass**

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Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) :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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr^{6+})	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr^{6+})	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Results:

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

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	White handle(VGA plug)	BL	BL	BL	BL	BL
2	Milk white inner glue(VGA plug)	BL	BL	BL	BL	BL
3	Tin solder(VGA plug)	BL	BL	BL	BL	-
4	Contact pin(VGA plug)	BL	BL	BL	BL	-
5	Blue plastic plug(VGA plug)	BL	BL	BL	BL	X*
6	Silver metal frame(VGA plug)	BL	BL	BL	BL	-
7	Silver metal screw(VGA plug)	BL	BL	BL	BL	-
8	White plastic screw handle(VGA plug)	BL	BL	BL	BL	BL
9	White outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
10	Pink wire jacket(Wire rod)	BL	BL	BL	BL	BL
11	Brown wire jacket(Wire rod)	BL	BL	BL	BL	BL
12	Black wire jacket(Wire rod)	BL	BL	BL	BL	BL
13	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL
14	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
15	Orange wire jacket(Wire rod)	BL	BL	BL	BL	BL
16	Yellow wire jacket(Wire rod)	BL	BL	BL	BL	BL
17	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL
18	Blue wire jacket(Wire rod)	BL	BL	BL	BL	BL
19	Purple wire jacket(Wire rod)	BL	BL	BL	BL	BL
20	Gray wire jacket(Wire rod)	BL	BL	BL	BL	BL
21	Metal wire core(Wire rod)	BL	BL	BL	BL	-
22	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
3.5 RCA Audio Line (CAGB22050BK100)						
23	Black handle(Audio plug)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
24	Tin solder(Audio plug)	BL	BL	BL	BL	-
25	Grounding metal(Audio plug)	BL	OL*	BL	BL	-
26	Black plastic(Audio plug)	BL	BL	BL	BL	BL
27	Right Vocal Tract Metal(Audio plug)	BL	BL	BL	BL	-
28	Left vocal tract metal(Audio plug)	BL	BL	BL	BL	-
29	Black handle(Audio interface)	BL	BL	BL	BL	BL
30	Tin solder(Audio interface)	BL	BL	BL	BL	-
31	Silver metal sheet(Audio interface)	BL	BL	BL	BL	-
32	White plastic plug(Audio interface)	BL	BL	BL	BL	BL
33	Silvery metal ring(Audio interface)	BL	BL	BL	BL	-
34	Black outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
35	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
36	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
37	Wire core(Wire rod)	BL	BL	BL	BL	-

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

Note: BL= Below Limit
OL= Over limited
X= Inconclusive
"-"= 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 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 Pb

Test Item(s)	Unit	Result(s)
		25
Lead(Pb)	mg/kg	34147*

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

MDL = Method Detection Limit

* 1= As claimed by the material declaration submitted by the client, the materials of the sample No.25 is copper alloy, according to the RoHS 2011/65 / EU, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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2) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)	Limit
		5	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	5	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	
Tribromobiphenyl	5	N.D.	
Tetrabromobiphenyl	5	N.D.	
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	
Heptabromobiphenyl	5	N.D.	
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	
Decabromodiphenyl	5	N.D.	
Total content	/	N.D.	
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	
Hexabromodiphenyl ether	5	N.D.	
Heptabromodiphenyl ether	5	N.D.	
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	
Decabromodiphenyl ether	5	N.D.	
Total content	/	N.D.	
Conclusion	/	**Pass**	/

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

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3.Test result of DBP, BBP, DEHP, DIBP content

Test Method: IEC 62321-8:2017; Equipment: GC-MS

Substance		MDL	Limit
DIBP	Di-iso-butyl phthalate	50 mg/kg	1000 mg/kg
DBP	Dibutyl phthalate	50 mg/kg	1000 mg/kg
BBP	Butylbenzyl phthalate	50 mg/kg	1000 mg/kg
DEHP	Di-(2-ethylhexyl) Phthalate	50 mg/kg	1000 mg/kg

Unit: mg/kg

Test item / Seq. No.	DIBP	DBP	BBP	DEHP	Conclusion
1	N.D.	N.D.	N.D.	N.D.	Pass
2	N.D.	N.D.	N.D.	N.D.	Pass
5	N.D.	N.D.	N.D.	N.D.	Pass
8	N.D.	N.D.	N.D.	N.D.	Pass
9	N.D.	N.D.	N.D.	N.D.	Pass
10	N.D.	N.D.	N.D.	N.D.	Pass
11	N.D.	N.D.	N.D.	N.D.	Pass
12	N.D.	N.D.	N.D.	N.D.	Pass
13	N.D.	N.D.	N.D.	N.D.	Pass
14	N.D.	N.D.	N.D.	N.D.	Pass
15	N.D.	N.D.	N.D.	N.D.	Pass
16	N.D.	N.D.	N.D.	N.D.	Pass
17	N.D.	N.D.	N.D.	N.D.	Pass
18	N.D.	N.D.	N.D.	N.D.	Pass
19	N.D.	N.D.	N.D.	N.D.	Pass
20	N.D.	N.D.	N.D.	N.D.	Pass
22	N.D.	N.D.	N.D.	N.D.	Pass
23	N.D.	N.D.	N.D.	N.D.	Pass
26	N.D.	N.D.	N.D.	N.D.	Pass

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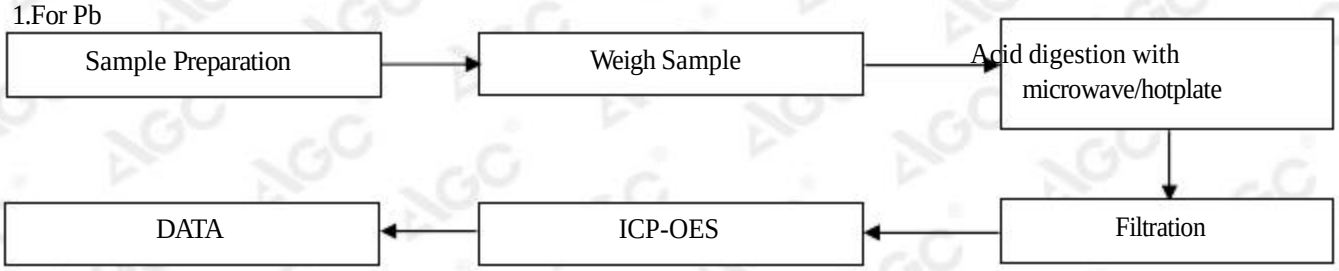
Test item / Seq. No.	DIBP	DBP	BBP	DEHP	Conclusion
29	N.D.	N.D.	N.D.	N.D.	Pass
32	N.D.	N.D.	N.D.	N.D.	Pass
34	N.D.	N.D.	N.D.	N.D.	Pass
35	N.D.	N.D.	N.D.	N.D.	Pass
36	N.D.	N.D.	N.D.	N.D.	Pass

Note: 1. MDL＝Method Detection Limit

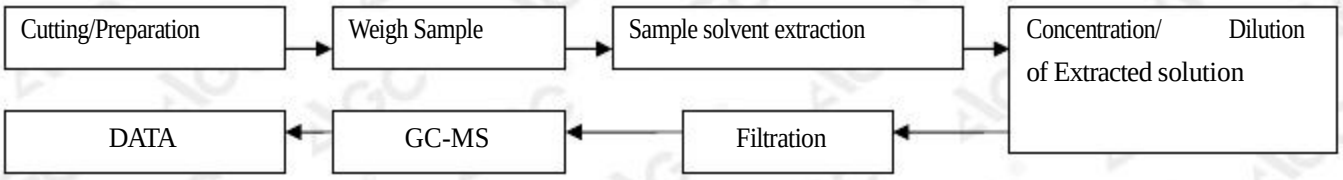
2. N.D.=Not Detected(less than method detection limit)

Test Flow Chart

1.For Pb



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



Test result on specimen No.24,No.35 and No.36 were resubmitted sample on Jun.20,2019.

Test result on specimen No.34 was resubmitted sample on Jul.04,2019.

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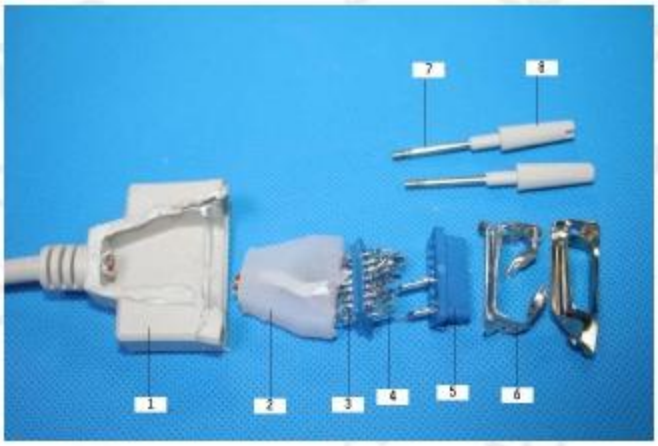
The photo of the sample



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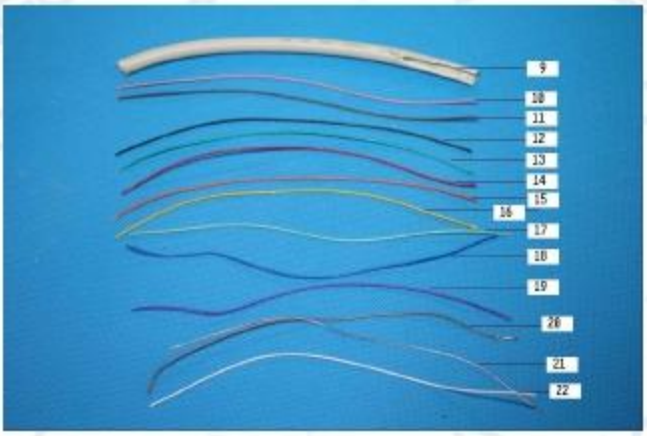

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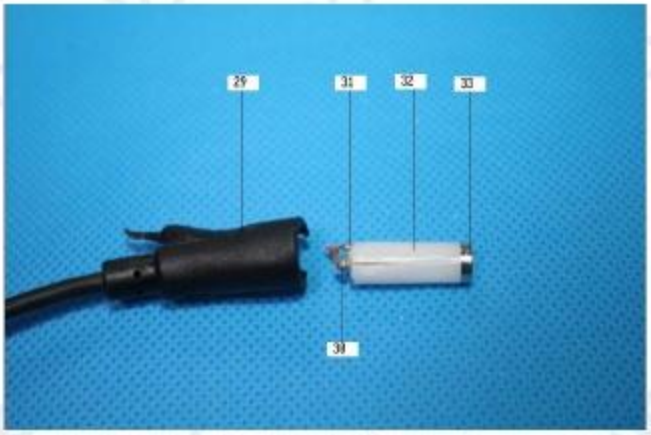

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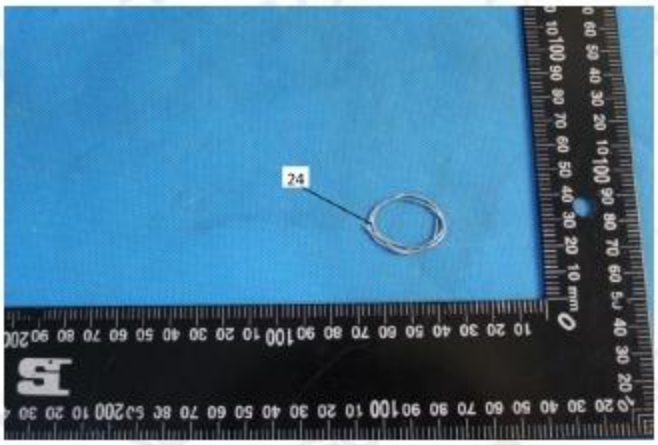

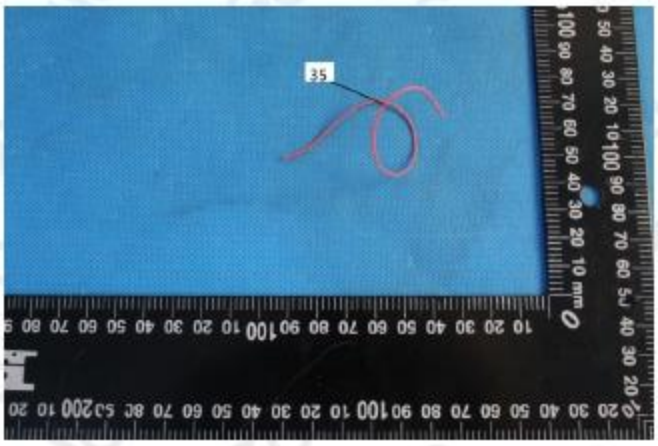

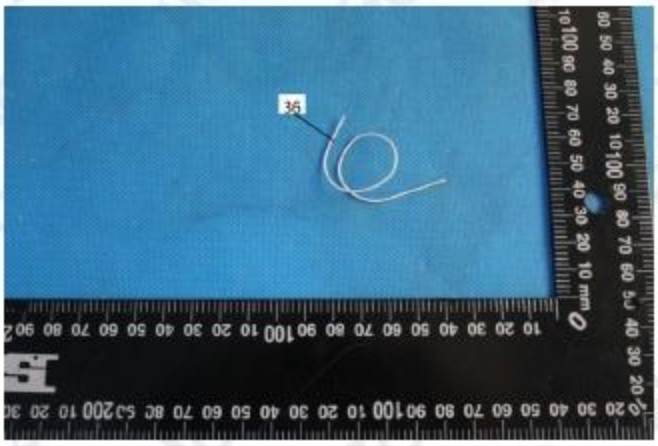

301-16-445 CAGB22050BK100

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AGC authenticate the photo only on original report

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