

TEST REPORT

REPORT No.: R2SH171013F0466E

Date: November 1, 2017

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Report on the submitted samples said to be:

Sample Name : Music Backpack Speaker
Style/Item No. :
Country of Origin : China
Sample Receiving Date : October 13, 2017
Testing Period : From October 13, 2017 to November 1, 2017
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A RoHS Directive 2011/65/EU and its amendment directives –XRF screening test and Wet
Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs
content)

Pass

Signed for and on behalf of
BACL

Checked by: Jane Xu
Jane Xu
Technical Supervisor

Approved by: William Wei
William Wei
Laboratory Manager

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Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black soft plastic(shell, plug, USB cable)	BL	BL	BL	BL	BL
2	Silvery metal(shell, plug, USB cable)	BL	BL	BL	BL	---
3*	White plastic(pin holder, plug, USB cable)	BL	BL	BL	BL	IN
4	Silvery metal(pin, plug, USB cable)	BL	BL	BL	BL	---
5	Silvery solder(pin, plug, USB cable)	BL	BL	BL	BL	---
6	Black soft plastic(shell, micro plug, USB cable)	BL	BL	BL	BL	BL
7	Silvery metal(shell, micro plug, USB cable)	BL	BL	BL	BL	---
8*	Dull grey plastic(pin holder, micro plug, USB cable)	BL	BL	BL	BL	IN
9	Silvery metal with golden plating(pin, micro plug, USB cable)	BL	BL	BL	BL	---
10	Silvery solder(pin, micro plug, USB cable)	BL	BL	BL	BL	---
11	Silvery metal(pin, micro plug, USB cable)	BL	BL	BL	BL	---
12*	Black plastic(pin holder, micro plug, USB cable)	BL	BL	BL	BL	IN
13	Black soft plastic(cable jacket, USB cable)	BL	BL	BL	BL	BL
14	White soft plastic(wire jacket, USB cable)	BL	BL	BL	BL	BL
15	Pink soft plastic(wire jacket, USB cable)	BL	BL	BL	BL	BL
16	Coppery metal(wire, USB cable)	BL	BL	BL	BL	---
17	Black plastic(shell, Backpack Speaker)	BL	BL	BL	BL	BL
18	Silvery metal(screw, Backpack Speaker)	BL	BL	BL	BL	---
19	Black soft plastic(cover, screw, Backpack Speaker)	BL	BL	BL	BL	BL
20	Translucent/black plastic(shell, Backpack Speaker)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	White plastic(LED cover, Backpack Speaker)	BL	BL	BL	BL	BL
22	Black soft plastic(USB cover, shell, Backpack Speaker)	BL	BL	BL	BL	BL
23	Black soft plastic(button, shell, Backpack Speaker)	BL	BL	BL	BL	BL
24*	Beige plastic(shell, terminal socket, PCB)	BL	BL	BL	BL	IN
25	Silvery metal(pin, terminal socket, PCB)	BL	BL	BL	BL	---
26	Transparent/white body(LED, PCB)	BL	BL	BL	BL	BL
27*	Green PCB(Backpack Speaker)	BL	BL	BL	BL	IN
28	Silvery solder(PCB, Backpack Speaker)	BL	BL	BL	BL	---
29	Silvery metal with black coating(net, speaker, Backpack Speaker)	BL	BL	BL	BL	---
30	Milky paper(coil base, speaker)	BL	BL	BL	BL	BL
31	Silvery solder(plate, speaker)	BL	BL	BL	BL	---
32	Silvery metal(wire, speaker)	BL	BL	BL	BL	---
33	White fiber(inner, wire, speaker)	BL	BL	BL	BL	BL
34	Silvery metal(fixer, coil base, speaker)	BL	BL	BL	BL	---
35	Black soft plastic(ring, speaker)	BL	BL	BL	BL	BL
36	Black soft glue(ring, speaker)	BL	BL	BL	BL	BL
37	Black plastic(film, speaker)	BL	BL	BL	BL	BL
38	Coppery metal(coil, speaker)	BL	BL	BL	BL	---
39	Brown paper(bobbin, speaker)	BL	BL	BL	BL	BL
40	Lt black plastic(film, speaker)	BL	BL	BL	BL	BL
41	Black fabric(net, speaker)	BL	BL	BL	BL	BL
42	Silvery metal with black printing(magnet housing, speaker)	BL	BL	BL	BL	---
43	Silvery magnet(core, speaker)	BL	BL	BL	BL	BL
44	Silvery metal(plate, speaker)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
45	Coppery metal with blue coating(wire, speaker)	BL	BL	BL	BL	---
46	Coppery metal with red coating(wire, speaker)	BL	BL	BL	BL	---
47	White fiber(inner, wire, speaker)	BL	BL	BL	BL	BL
48	Black soft plastic(sleeve, MIC, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
49	Black adhesive plastic(sticker, MIC)	BL	BL	BL	BL	BL
50	White plastic(ring, MIC)	BL	BL	BL	BL	BL
51	Golden metal(shell, MIC)	BL	BL	BL	BL	---
52	Silvery metal(ring, MIC)	BL	BL	BL	BL	---
53	Pink plastic(ring, MIC)	BL	BL	BL	BL	BL
54	Silvery metal(film fixer, MIC)	BL	BL	BL	BL	---
55	Grey metal(film, MIC)	BL	BL	BL	BL	---
56	Silvery metal(plate, MIC)	BL	BL	BL	BL	---
57	Black body(triode, PCB, MIC)	BL	BL	BL	BL	BL
58	Black body(resistor, PCB, MIC)	BL	BL	BL	BL	BL
59	Grey body(capacitor, PCB, MIC)	BL	BL	BL	BL	BL
60*	Green PCB(MIC)	BL	BL	BL	BL	IN
61	Silvery solder(PCB, MIC)	BL	BL	BL	BL	---
62	Red soft plastic(wire jacket, MIC)	BL	BL	BL	BL	BL
63	Black soft plastic(wire jacket, MIC)	BL	BL	BL	BL	BL
64	Silvery metal(wire, MIC)	BL	BL	BL	BL	---
65	White plastic(terminal tube, wire, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
66	Silvery metal(terminal, wire, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
67	Red soft plastic(wire jacket, wire, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
68	Silvery metal(wire, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
69	Beige plastic(shell, terminal socket, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
70	Silvery metal(pin, terminal socket, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
71	Silvery metal(screw, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
72	Silvery metal(shell, USB socket, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
73	Black plastic(pin holder, USB socket, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
74	Golden plated silvery metal(pin, USB socket, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
75	Black plastic(button, switch"S2", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
76	Silvery metal(fixer, switch"S2", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
77	Silvery metal(foil, switch"S2", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
78	Black plastic(connector holder, switch"S2", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
79	Silvery metal(connector, switch"S2", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---
80	Transparent body(LED, PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
81	Silvery body(crystal"Y1", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
82	Black plastic(base, crystal"Y1", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
83	Black body(IC"U1", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
84	Black body(triode"Q1", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
85	Black body(diode"D1", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
86	Black body with white printing(resistor"R23", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
87	Black body(resistor"R11", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
88	Brown body(capacitor"C15", PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	BL
89*	Green PCB(PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	IN
90	Silvery solder(PCB"X09199-AC6905B-V1.0")	BL	BL	BL	BL	---

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Remark:

(1)

--- = Not Conducted

* = Results were obtained by XRF for primary screening, 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 below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$LOD < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	---	$BL \leq 250 - 3\sigma < X$

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

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(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(3) 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
Polybrominate ddiphenylethers (PBDEs)	1000

(4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.

(5) Photo appendix is included.

Disclaimers:

This XRF Screening 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 screening 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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Wet Chemical Testing:

Test method:

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			3	8	12	24	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results			Limit
			27	60	89	
Polybrominated Biphenyls						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

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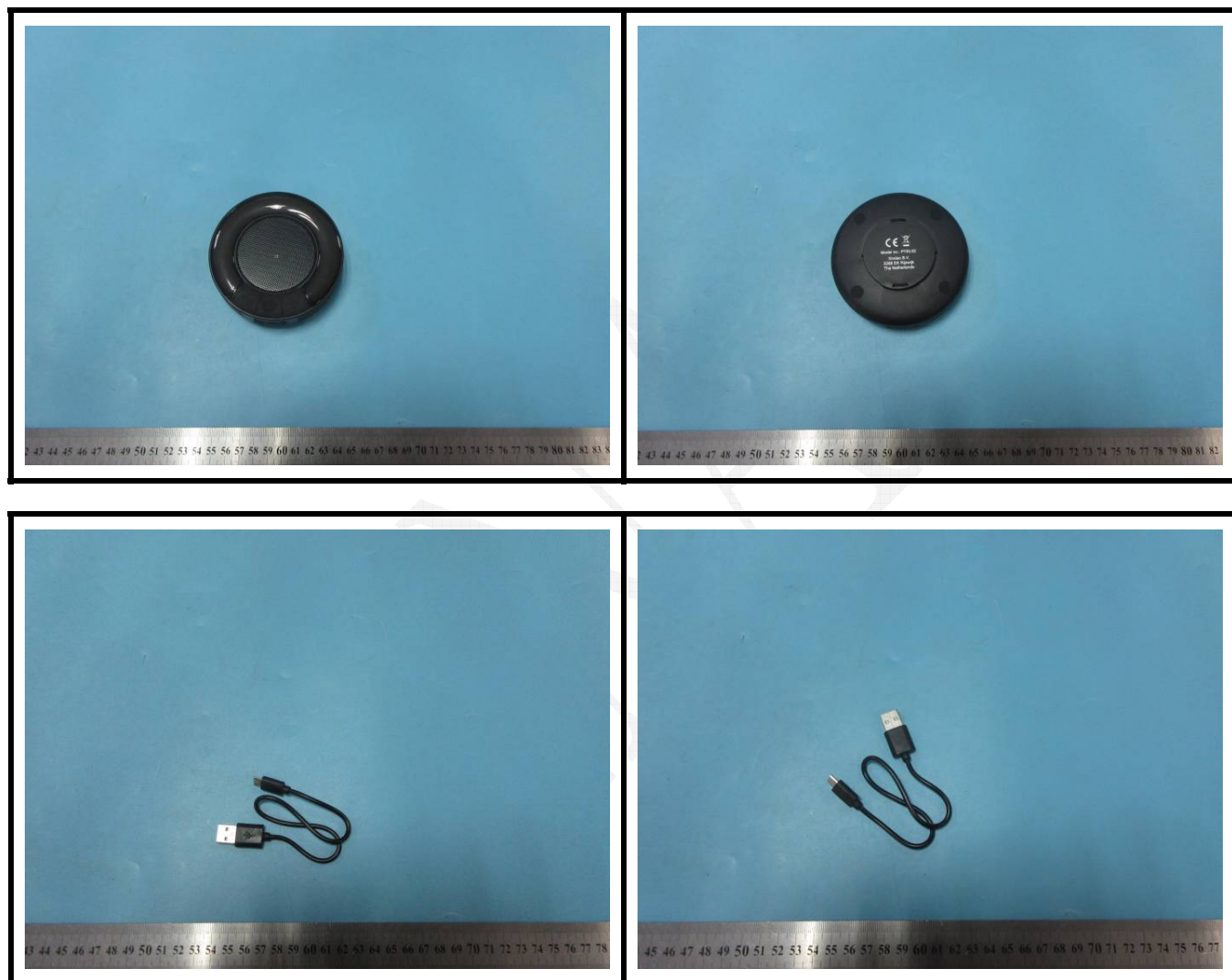
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Photograph of Sample



BACL authenticate the photo on original report only

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