



Test Report

Report No: BST190312499101CR-R1

Date: Mar.27, 2019

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Applicant :

Address :

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name : BLUETOOTH SPEAKER

Trade Name :

Sample Model : BT-132
BT-133, BT-134, BT-137, BT-138, Bluesound speaker

Sample Received Date : Mar.25, 2019

Testing Period : Mar.25, 2019 To Mar.27, 2019

Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.

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

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

Signed for and on behalf of

Tony Qian/ Approved Signatory

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Dongguan BST Testing Co., Ltd.

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Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Sample Description:

No.	Description	Name
1	Rubber	Black Rubber Pad
2	Plastic	Black Shell
3	Metal	Screw
4	Plastic	White Plastic Sheet
5	Battery	Battery
6	Plastic	Red Line Skin
7	Metal	Wire Core
8	Plastic	Black Line Skin
9	Rubber	Transparent Rubber
10	PCB	PCB
11	Resistance	Resistance
12	Capacitance	Capacitance
13	IC	IC
14	Triode	Triode
15	LED	LED
16	Crystals	Crystals
17	Metal	Enameled Wire

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No.	Description	Name	
18	Metal	Switch	
19	Metal	PCB Solder	
20	Metal	Basin	
21	Magnet	Horn	Magnet
22	Metal		Solder
23	Leather		White Leather
24	Metal		Voice Coil
25	Plastic		Silver Plastic Sheet
26	Rubber		Black Rubber
27	Metal	Black Metal	
28	Rubber	Black Rubber	

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Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	--
PBDEs	N.D.	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	62	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	--
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	N.D.	N.D.
PBDEs	N.D.	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	N.D.	N.D.
PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	91	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	--	--	--
PBDEs	--	--	--	--	--
Dibutyl Phthalate (DBP)	--	--	--	--	--
Butyl benzyl phthalate (BBP)	--	--	--	--	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	--	--	--
Diisobutyl phthalate (DIBP)	--	--	--	--	--

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Test Item(s)	No.21	No.22	No.23	No.24
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	N.D.	--
PBDEs	--	--	N.D.	--
Dibutyl Phthalate (DBP)	--	--	N.D.	--
Butyl benzyl phthalate (BBP)	--	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	N.D.	--
Diisobutyl phthalate (DIBP)	--	--	N.D.	--
Test Item(s)	No.25	No.26	No.27	No.28
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.
PBDEs	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.

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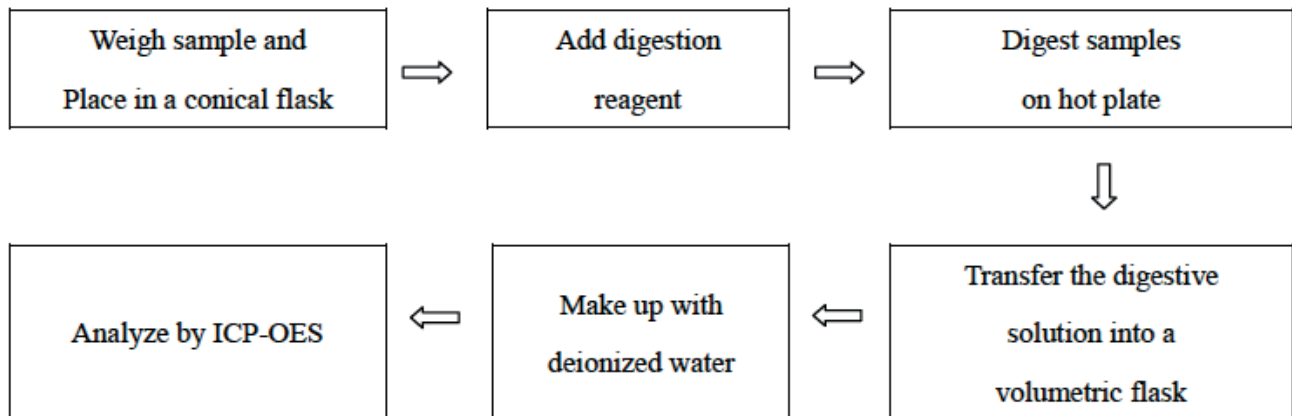
Date: Mar.27, 2019

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- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the $0.10 \mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above $0.13 \mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Test Process:

1. Test for Cd/Pb Content



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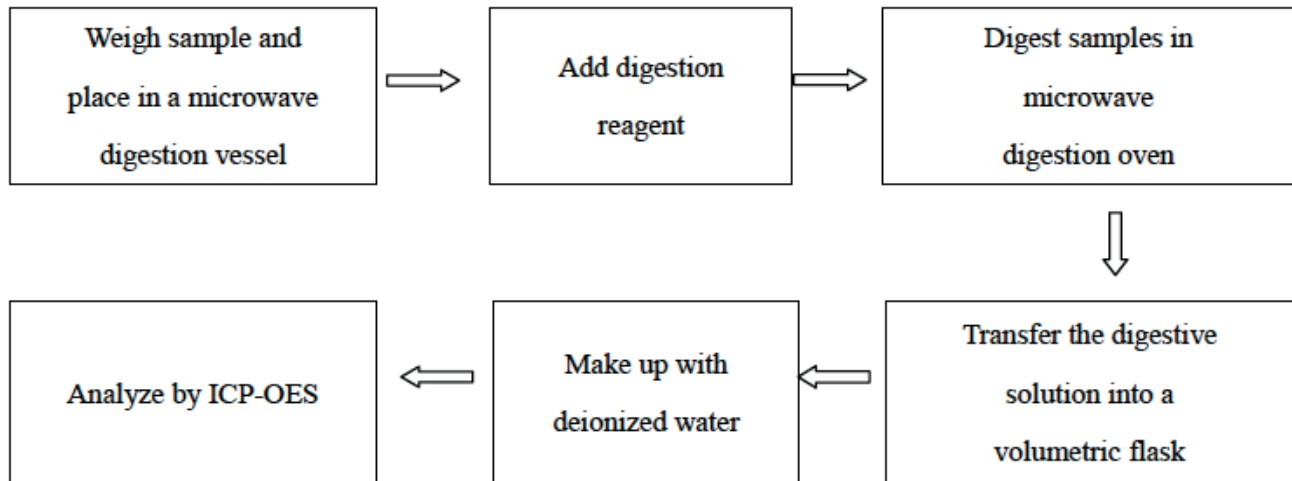
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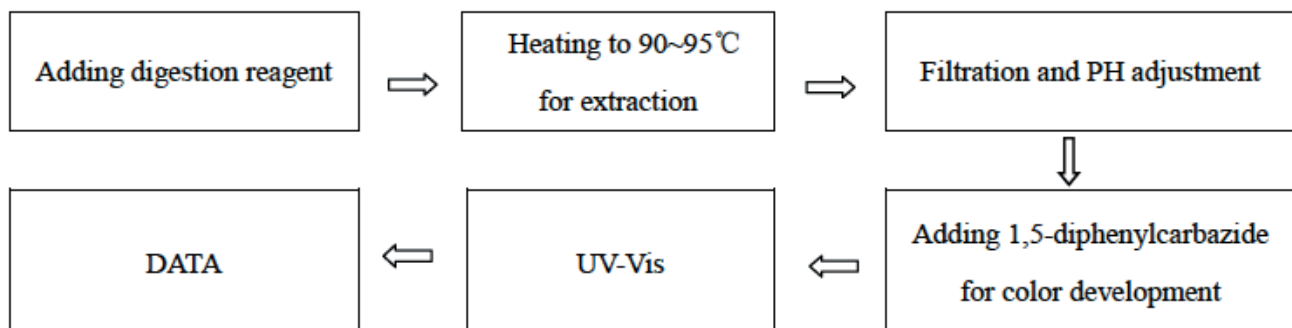
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2. Test for Hg Content

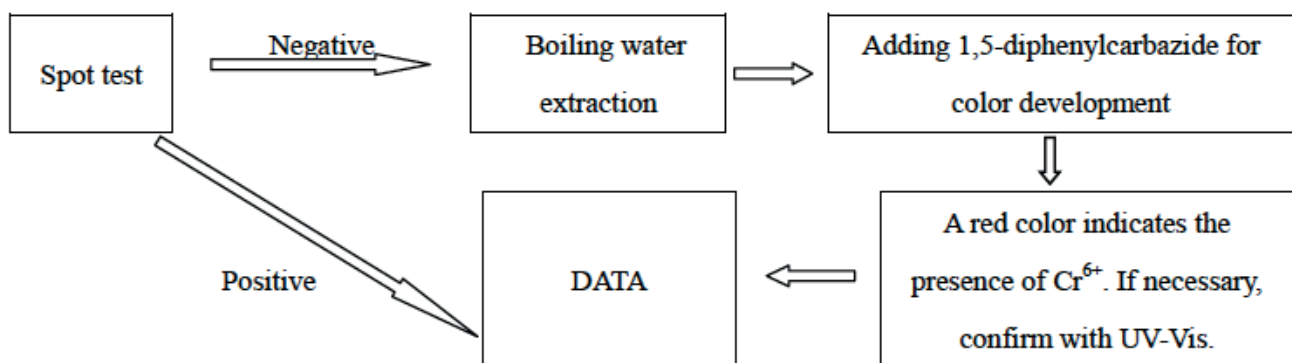


3. Test for Chromium (VI) Content

Nonmetal material



Metal material



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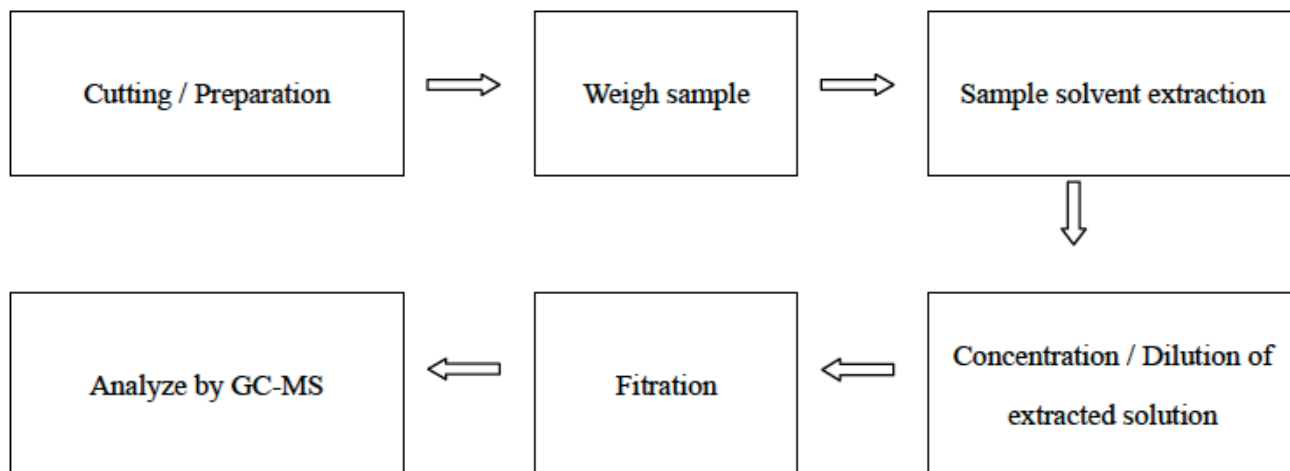
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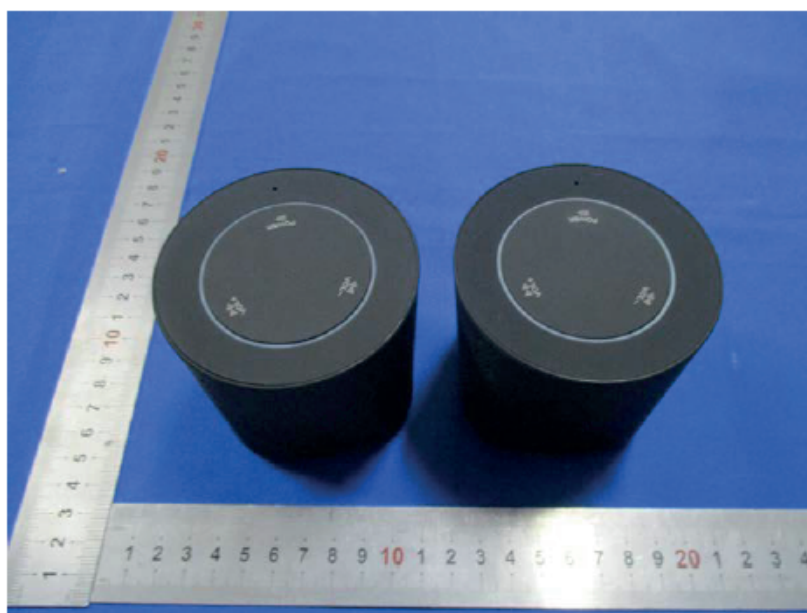
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4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



Sample Photo:



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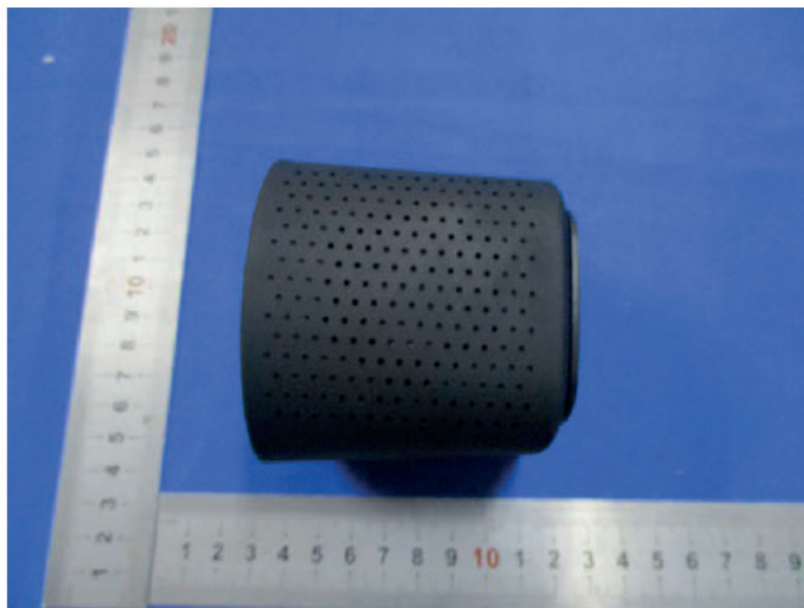
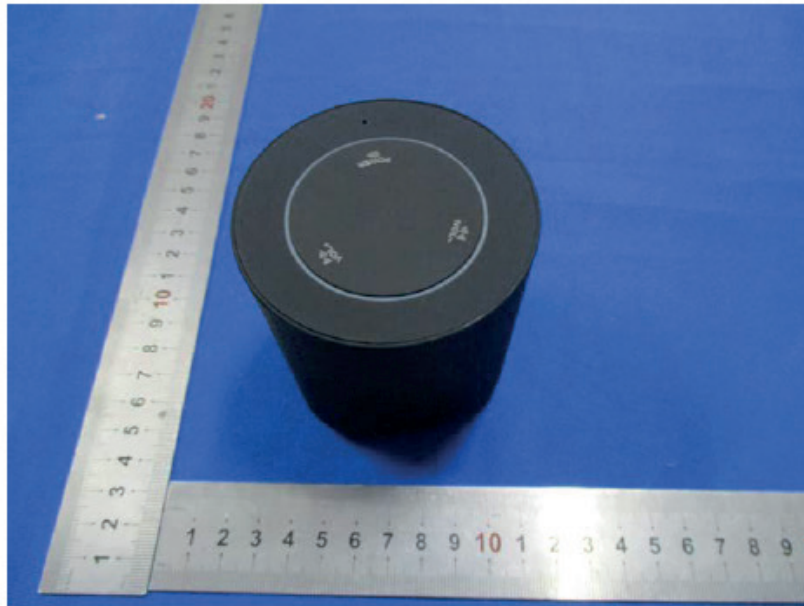


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