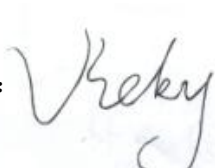


# TEST REPORT

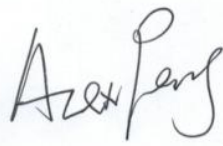
Customer information	Client	Paul Stricker SA
	Address	Núcleo Industrial de Murtede, Lote 5, 3060-372 Murtede - Portugal
Sample information	Name of sample	Bluetooth Speaker
	Test Model No.	97256
	Trade mark	N/A
	Manufacturer	[REDACTED]
	Address	[REDACTED]
Test information	Sample received	July 21, 2020
	Testing date	July 21, 2020 to July 29, 2020
	Test sort	Commission Test
	Requested/item	(1) RoHS directive 2011/65/EU (2) DIBP, DEHP, BBP, DBP
	Standard/ Foundation	(1) With reference to IEC 62321-3-1:2013, scanning by XRF Spectroscopy Chemical test method: With reference to IEC 62321-5:2013, determination of Cadmium, lead by ICP With reference to IEC 62321-4:2013+AMD1:2017, determination of Mercury by ICP With reference to IEC 62321:2008&IEC 62321-7-1:2015, determination of Hexavalent Chromium by Colorimetric method. With reference to IEC 62321-6:2015 determination of PBBs and PBDEs by GC-MS (2) With reference to EPA 3550C:2007&EPA 8270D:2007, and analysis was performed by GC-MS.
	Conclusion	(1) The tested sample complied with RoHS directive (2011/65/EU). (2) The tested part of submitted sample complied with directive (EU)2015/863
Remark	----	

Tested By:



Date: 2020/07/29

Checked By:



Date: 2020/07/29

Approved By:



Date: 2020/07/29

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Test result: 1. Structural parts

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
1	Black plastic sheet	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
2	White plastic cap	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
3	Wood body	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
4	White metal net	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
5	PCB board	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
6	Silver metal slot	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
7	Silver metal button	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
8	USB metal port	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
9	USB plastic port	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
10	IC	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
11	IC feet	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
12	Chip resistor	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
13	Chip resistor	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
14	Silver metal cap	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
15	Silver metal frame	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
16	Black plastic button	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
17	Silver metal wire	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
18	IC	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
19	CHIP RESISTOR	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
20	Silver metal slot	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
21	Red wire skin	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
22	Black wire skin	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P
23	Silver metal wire	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
24	Golden plastic tape	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	P	/	<1000	P
		PBDEs	P	/	<1000	P

No.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of Testing (mg/kg)	Chemical testing limit (mg/kg)	Conclusion (P/F)
25	Silver metal magnet	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
26	Black metal magnet	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/
27	Solder	Cd	P	/	<100	P
		Cr(VI)	P	/	<1000	P
		Hg	P	/	<1000	P
		Pb	P	/	<1000	P
		PBBs	/	/	<1000	/
		PBDEs	/	/	<1000	/

## Remark:

- 1 It is the result on total Br while test PBBs and PBDEs by EDXRF. It is the result on total Cr while test Hexavalent Chromium by EDXRF.
- 2 Results are obtained by EDXRF for primary screening, and chemical testing by ICP (for Cd, Pb, Hg),UV-VIS (Cr(VI)) and GCMS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value With reference to IEC 62321:2008 (unit:mg/kg)
- 3.

Element	Polymer	Metal	Composite Materials
Cd	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 70-3\sigma < D < 130+3\sigma \leq F$	$P \leq 50-3\sigma < D < 150+3\sigma \leq F$
Pb	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Hg	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 700-3\sigma < D < 1300+3\sigma \leq F$	$P \leq 500-3\sigma < D < 1500+3\sigma \leq F$
Br	$P \leq 300-3\sigma < D$	----	$P \leq 250-3\sigma < D$
Cr	$P \leq 700-3\sigma < D$	$P \leq 700-3\sigma < D$	$P \leq 500-3\sigma < D$

P = PASS; F = FAIL; D = DETECTED;

4. mg/kg = ppm; N.D. = NOT DETECTED (<MDL) Pb, Cd, Hg,Cr(VI): 2mg/kg; PBBs, PBDEs: 5mg/kg
5. With reference to IEC 62321:-7-1:2015, result on Cr (VI) for metal sample is shown as Positive/Negative.  
Positive = Presence of Cr(VI) coating, Negative = Absence of Cr(VI) coating
- 6 \*According to Annex III of European Council Directive 2011/65/EU, Lead in copper alloy containing up to 4% lead by weight.
- 7 \*\*According to Annex III of European Council Directive 201 1/65/EU, Lead in steel alloy containing up to 0.35% lead by weight.
- 8 #According to Annex III of European Council Directive 201 1/65/EU, Cadmium and its compounds in electrical contacts is exempted.

## (3) DEHP, BBP, DBP, DIBP

ITEM \ SAMPLE No.	SAMPLE CONCENTRATION (mg/kg)					MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	1	2	3	5	9		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

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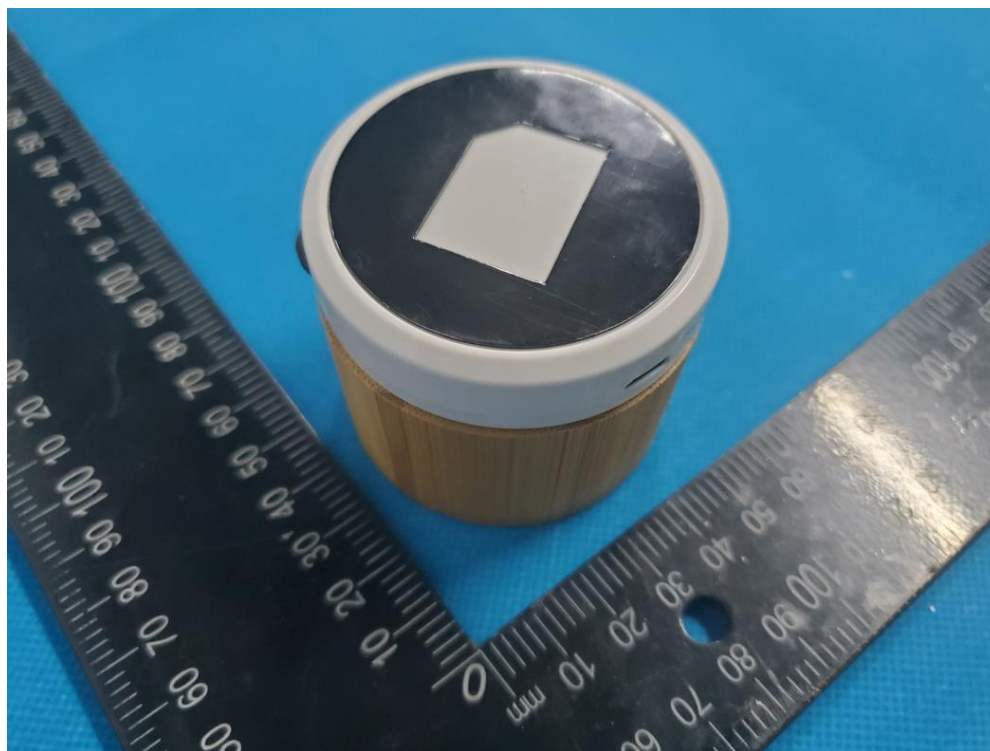
<div> <div>SAMPLE No.</div> <div>ITEM</div> </div>	SAMPLE CONCENTRATION (mg/kg)					MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	10	12	13	16	18		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	N.D.	30	1000

<div> <div>SAMPLE No.</div> <div>ITEM</div> </div>	SAMPLE CONCENTRATION (mg/kg)				MDL (mg/kg)	REQUIRED LIMIT (mg/kg)
	19	21	22	24		
Di-2-ethylhexyl phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.	30	1000
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Benzylbutyl phthalate (BBP)	N.D.	N.D.	N.D.	N.D.	30	1000
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	N.D.	30	1000

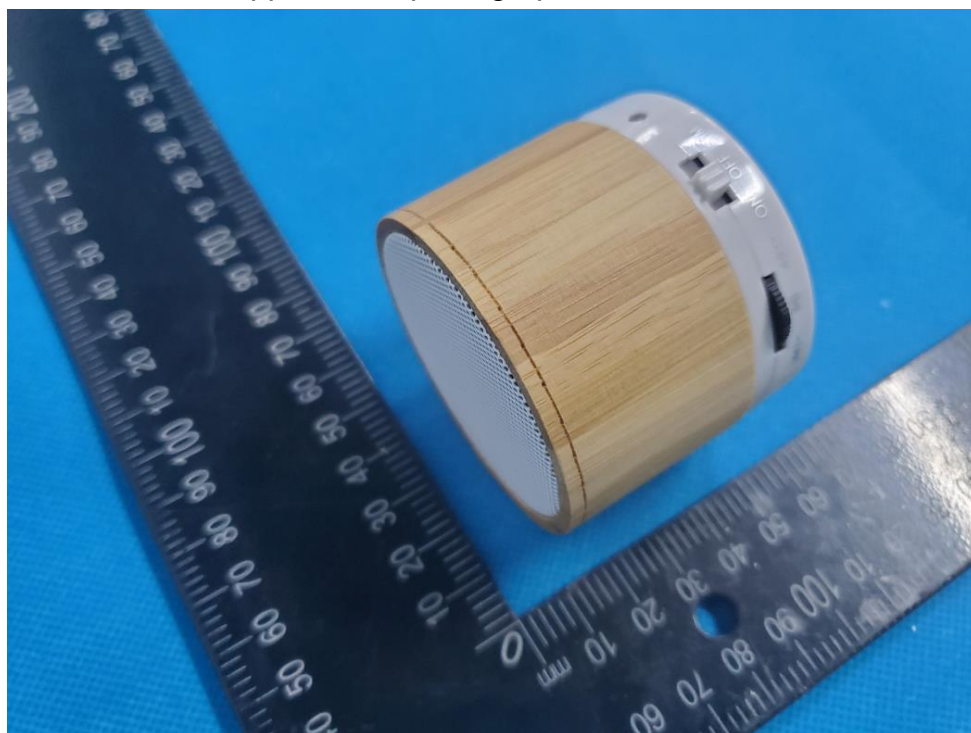
Note: MDL = Method Detection Limit, N.D.=not detected (<Method Detection Limit).



Appearance photograph of EUT



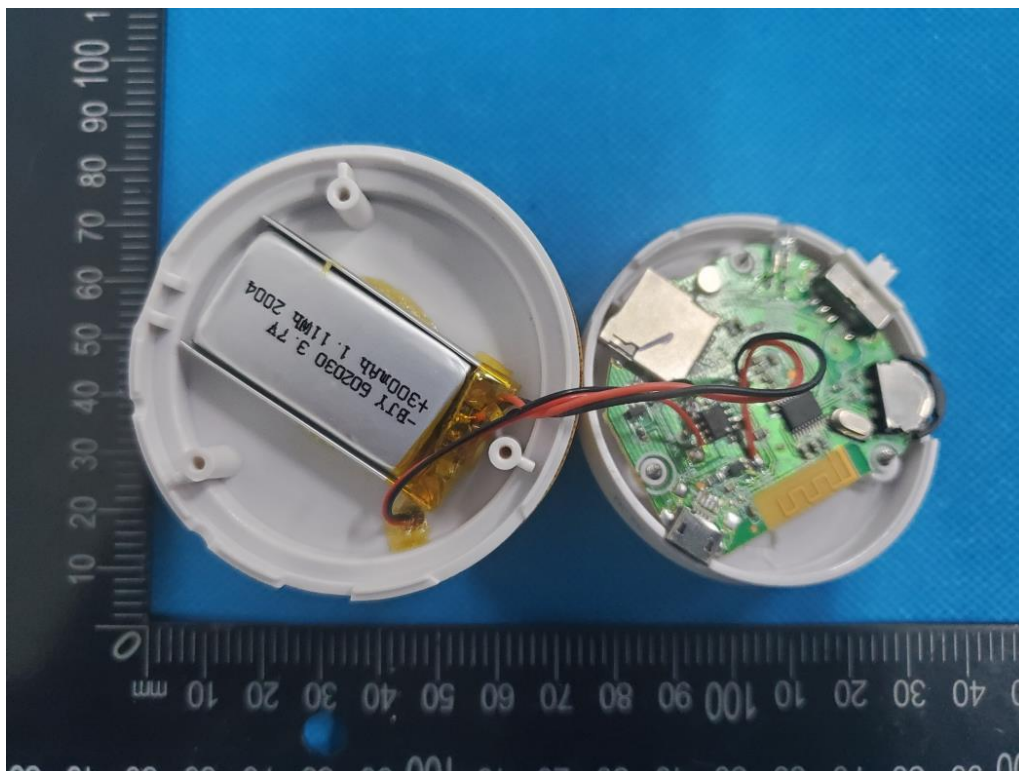
Appearance photograph of EUT



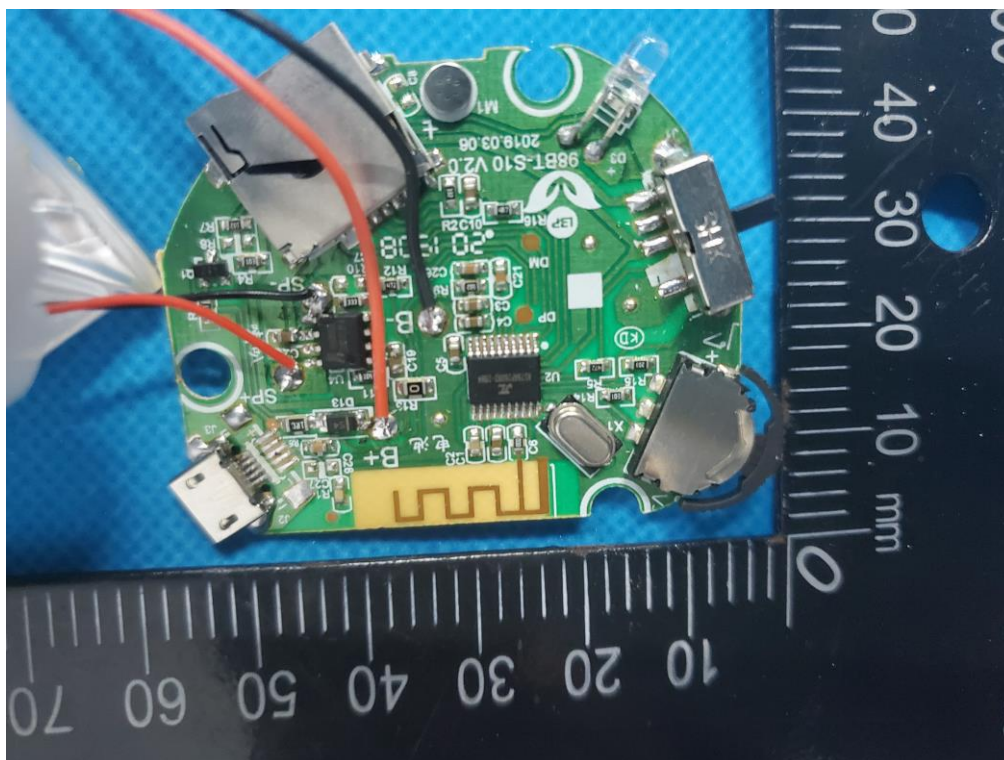
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Appearance photograph of EUT



Appearance photograph of EUT

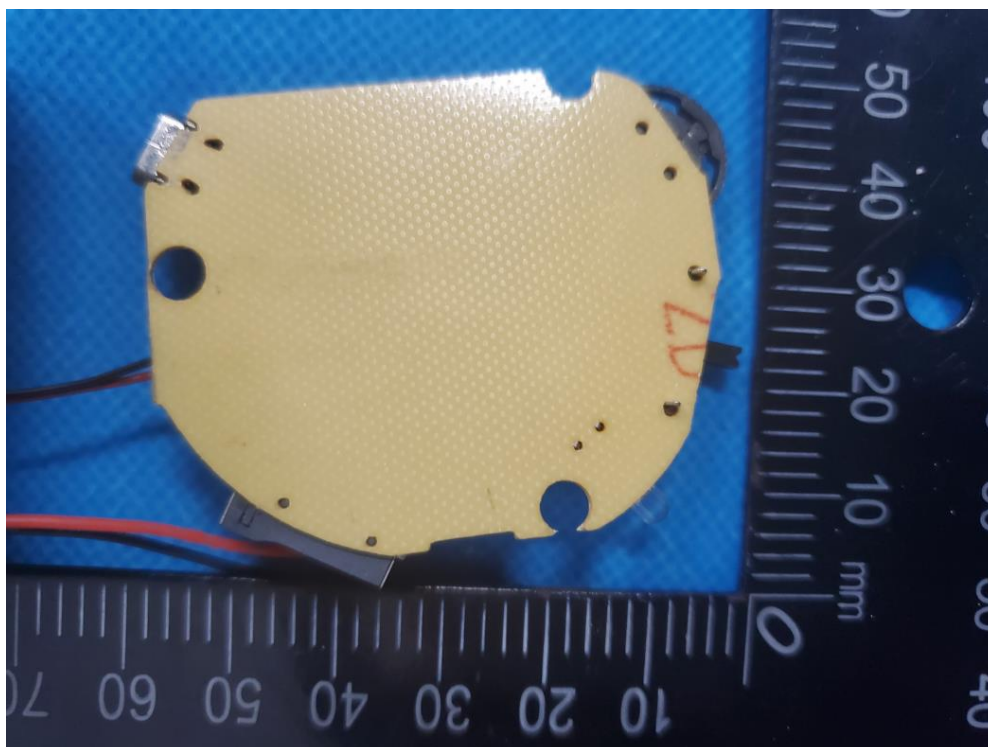


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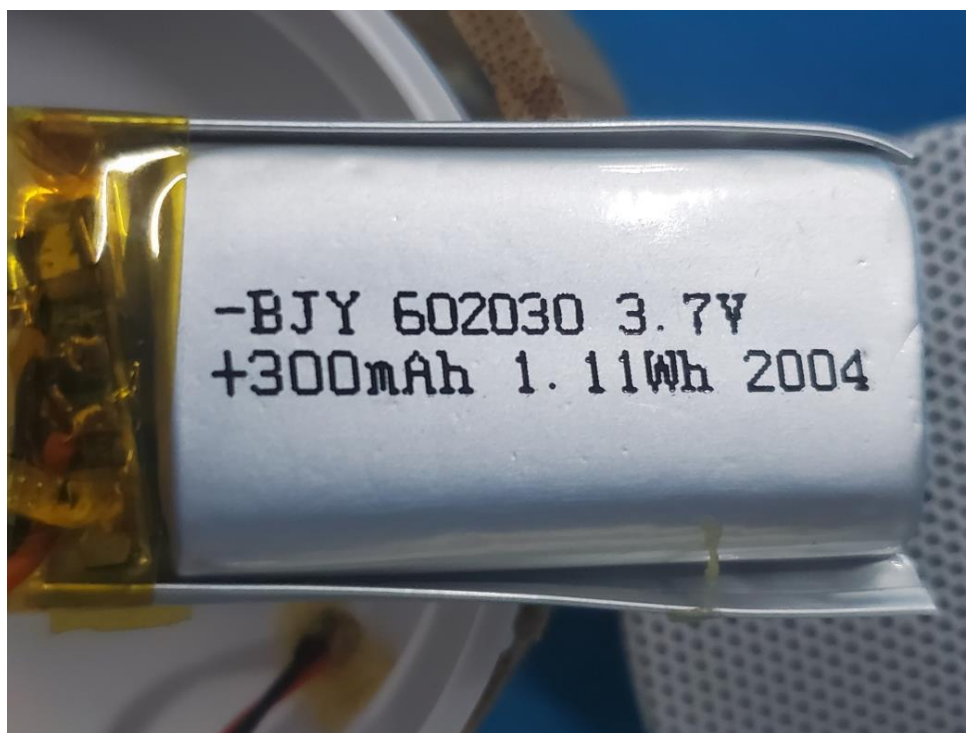
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### Appearance photograph of EUT



### List of apparatus

No.	Name	Model	Calibration Valid Date	USE(√)
1	ICP-OES	VISTA-MPX	2020/10/28	√
2	GC-MS	5975i	2020/10/16	√
3	UV-Vis	Lambda 25	2020/10/16	√
4	XRF	EDX3000B	2020/10/22	√

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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