

PRE-INSPECTION REPORT

GENERAL INFORMATION		PRODUCT PHOTO	
Project number	Swi354190_2010		
Description of product	TWS In-ear Headphone		
Model number	STWSK 3 A1		
Customer	LIDL		
Supplier	Shenzhen Swetz Sound		
Inspection place	No.18 Xiantiao Road, Longgang Central, Shenzhen		
Requested lot quantity	124 units		
Actual quantity	80 units		
INSPECTION PLAN			
Type of inspection	☒ Pre-EUG ☐ Pre-PSI ☐ Spare units/parts PSI ☐ Re-PSI	Lot/batch size	80 units
		Sampling size	80 units
Inspection standard	ISO 2859-1, Single; Normal, Inspection Level: L-II, S-2;		
Sampling plan	AQL Level: Critical 0 ; Maj. 1.5; Min. 4.0		
Inspection guideline	Version V1.0	Drafted by: Terry Fu	
	Date: xxxxxx	Reviewed by: Jane Wong	

QUANTITY STATUS					
Country Block	Silver	Blue	Green	Red	/
Requested qty	31	31	31	31	/
Finished qty	20	20	20	20	/
Unpacked qty	31	31	31	31	/
Sampling qty	20	20	20	20	/

INSPECTION RESULTS:					☐ PASS	☒ FAIL	☐ PENDING
Summary							
AQL (function, cosmetics, workmanship, basic safety)				Pass	Fail	Pending	N/A
L-II	Critical	Major	Minor	☐	☒	----	☐
Acc/Re	0	3/4	7/8				
Actual found	0	0	18				
CDF/Critical components check/ rating plate				☒	☐	----	☐
Data measurements / on-site testing/ performance/silkscreen testing				☒	☐	☐	☐
Internal check							
S2	Critical	Major	Minor	☒	☐	----	☐
Acc/Re	0	0/1	0/1				
Actual found	0	0	0				
Packaging (Carton/GB/IM/cutting protection)				☐	☐	☐	☒
Drop test according to DIN EN22248				☐	☐	☐	☒
Remarks/ Observation				----	☒	☐	☐

Inspected by: Peggy Zhong / Terry Fu

Reviewed by: Jane Wong

Date of inspection: xxxxxx

A. MASTER CHECKLIST

A.1 Sample size

Sample size		
Inspection quantity	80	units
Sampling size L-II (for function/cosmetics/workmanship/basic safety)	80	units
Sampling size S-2 (Internal construction check, dismantling of sample)	5	units

A.2 Function/cosmetics/workmanship/basic safety (sampling Level-II)

Categories	Inspection Items	Defective description	Cri	Maj	Min
1. Safety Test	a) Hi-pot test	N/A			
	b) Earth continuity test for class I items (less than 0.1Ω, at 25 A)	N/A			
	c) Others	N/A			
2. Marking	a) Marking is reliable, damaged or loose off	P			
	b) Others	N/A			
3. Function	a) On/Off, or speed, or light control switch	P			
	b) Abnormal noise, or vibration	P			
	c) Intermittent function	P			
	d) Others	N/A			
4. Wattage (heating appliance only)	a) Less than or more than specified limit	P			
	b) Others	N/A			
5. Cosmetic Appearance	a) Dirty mark /scratch mark / poor finishing /silk screening / mould mark / flash or dent on unit	P			
	b) Mixed Colour, Mildew, Corrosion	P			
	c) Printing on product	P			
	d) Body deformed, crack, damage	P			
	e) Switches / control / knobs / screw etc	_The knob is lower than the surface of the housing _The knob is higher than the surface of the housing			5 3
	f) Plug / Supply Cord (defect)	P			
	g) Foreign material inside	P			
	h) Front, Back, Side Housing (gap/ not tight/ not align)	_The knob is not in center and the gap in not uniform _The gap on housing of earphone is too large _The housing of earphone had steps			5 3 2
	i) Unit wobbling	P			
	j) Others	N/A			
6. Accessory	a) Remote control provided	N/A			
	b) Missing or damage of parts / components/ instruction manual /	P			

	warrantee card / instruction leaflet / supply cord / others				
	c) Accessories are available as described in the instruction manual	N/A			
	d) Others	N/A			
7. Packing	a) Wrong Packing				
	b) Gift box / Polybag / Carton Box (damage), Printing on six faces (wrong/poor)	N/A			
	c) Others	N/A			
Total found			0	0	19

A.3 Internal construction check (sampling level S-2)

Categories	Inspection Items	Defective Description	Cri	Maj	Min
Internal construction (visual check)	a) Symbol are not corrective (Live / Neutral / Earthing)	P			
	b) Cold solder joint, bad soldering	P			
	c) Parts (switch, motor, control etc.) not proper fixed	P			
	d) Strain relief insufficient, wrong assembly	P			
	e) Earthing/cord/fuse screw fixing torque	P			
	f) Grommet of internal wiring	P			
	g) Foreign material inside	P			
	h) Others	N/A			
Total found			0	0	0

A.4 UNIT COLOUR & TEXTURE CHECK

Check with approved sample or reference sample	
N/A	N/A
Remarks: Factory can't provide approved sample for check.	

A.5 RATING PLATE CHECK

		Pass	Fail	n/a
a,	CE symbol (height min.5mm), GS logo (UK/CH plug no GS)	☒	☐	☐
b,	Trade mark as per approved artwork	☒	☐	☐
c,	Technical parameters (Voltage, Wattage, IP...), refer to certificate/CDF	☒	☐	☐
d,	WEEE mark (with underline, height min 7mm)	☒	☐	☐
e,	Rubbing test (15s with a cloth soaked with N-hexane)	☐	☐	☒
f,	Importer name and address (or on product, if it's not possible to put on product or rating label it shall be mentioned on packaging)	☒	☐	☐
g,	Others	---	☐	☒
Approved rating plate artwork		Actual rating plate photo		

SILVERCREST® STWSK 3 A1 IAN: 354190_2010 5V==500mA Li-Polymer Battery 3.7V 350mAh 1.295Wh HOYER HANDEL GMBH TASKÖPRÜSTRASSE 3 22761 HAMBURG GERMANY MANUFACTURED: 04/2021 CE WEEE: SILVERCREST®		SILVERCREST® STWSK 3 A1 IAN: 354190_2010 6V==500mA Li-Polymer Battery 3.7V 350mAh 1.295Wh HOYER HANDEL GMBH TASKÖPRÜSTRASSE 3 22761 HAMBURG GERMANY MANUFACTURED: 04/2021 CE WEEE: SILVERCREST®
CE WEEE: SILVERCREST® 5.5mm 7.2mm	SILVERCREST® STWSK 3 A1 IAN: 354190_2010 5V==500mA Li-Polymer Battery 3.7V 350mAh 1.295Wh HOYER HANDEL GMBH TASKÖPRÜSTRASSE 3 22761 HAMBURG GERMANY MANUFACTURED: 04/2021 CE WEEE: SILVERCREST® 32.5mm	13.1mm
L 354190_2010 8mm 3mm	R 354190_2010 8mm 3mm	
Remarks:		

A.6 COMPONENT CHECK - CDF

Critical component check according to safety document

5.0 chipset JielLi AD6976D JL BP04246-76D4	Li-polymer battery: XD602530 3.7V 350mAh Dongguan Xunda	Li-polymer battery: XD501015 3.7V 50mAh Dongguan Xunda
Remarks: Factory can't provide CDF files for check.		

A.7 SILKSCREEN / PRINTING TEST

Rubbing test(15s with a cloth soaked with different agents)		Pass	Fail	Pending	n/a
a,	Rubbing test with vegetable oil (in hot condition if applicable)	☐	☐	☐	☒
b,	Rubbing test after 12h with vegetable oil	☐	☐	☐	☒
c,	Rubbing test with wash-up agent	☐	☐	☐	☒
d,	Rubbing test with 75% alcohol	☐	☒	☐	☐

e,	Rubbing test with N-hexane (for IEC symbols only)	☐	☐	☐	☒
f,	3M tape testing	☒	☐	☐	☐
g,	Finger nail scratch	☐	☐	☐	☒

Remarks:



A.8 WEIGHT / DIMENSION

Weight & Dimension					
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Charging case weight: 40g -/+5% (38.0-42.0g) -/+10%(36.0-44.0g)	37.6	37.6	37.4	37.5	37.3
In-ear headphone each weight: 5g -/+5% (4.75-5.25g) -/+10%(4.50-5.50g)	4.6	4.6	4.8	4.6	4.7
USB-C cable weight: 12g -/+5% (11.4-12.6g) -/+10%(10.8-13.2g)	12.6	12.6	12.4	12.6	12.5
Charging case size: 72*33*33mm	72*33*33				
Earphone without silicon tip:19*25*23	22*21*24				
Remarks: The weight of charging case and headphone was exceed -5% of spec.					

A.9 USB-C CABLE LENGTH

plug and cable guard excluded					
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
USB-C cable length: 60cm -0/+5% (60-63cm)	61.0	61.0	60.5	61.0	60.5
Remarks:					

A.10 TECHNICAL DATA MEASUREMENT

		Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Charging box	Charging box default voltage > 3.8V /≥3LED	3.80	3.81	3.85	3.82	3.86
	Static current test: Ref: 10uA	8.8	8.9	7.9	7.8	8.8
	Input current test: Ref: 240mA	72	135	142	69	89
	Output current test: Ref: 130mA	123	130	125	113	108

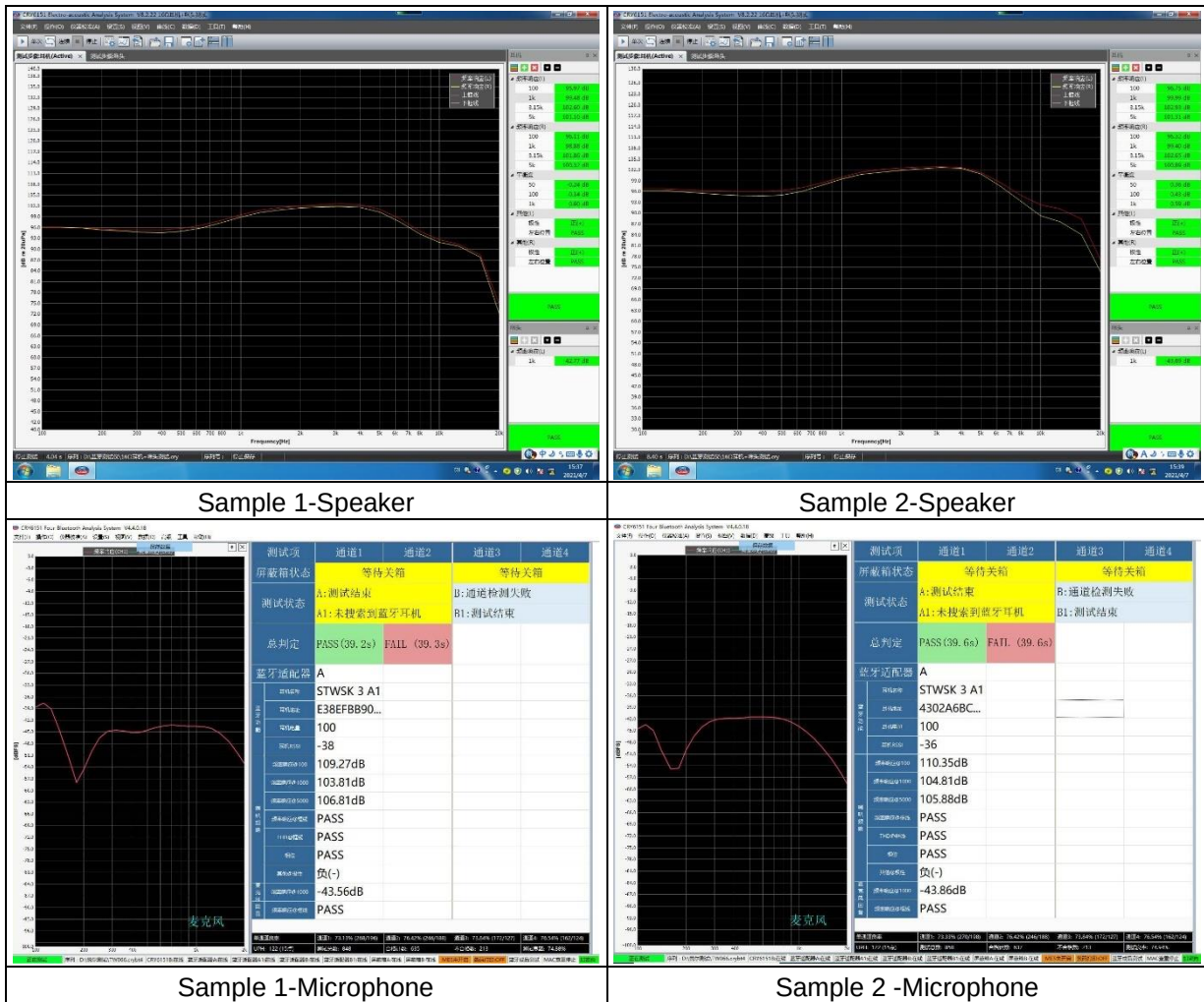
	Charging time test: Ref: < 180 minutes	151	149	146	/	/
	Battery voltage of full charged_4.20V	4.20	4.19	4.20	/	/
	Low battery alarm test: Ref: < 3.3V	3.2	3.2	3.2	3.2	3.2
	Over discharge protection test: Ref: < 3.0V	3.0	3.0	3.0	3.0	3.0
	Battery pack capacity test (Loading 0.2C >350mAh)	427	424	433	/	/
Earphone	Earphone default voltage $\geq 3.80V$	4.0	3.9	4.0	4.0	3.8
	Static current test: Ref: 6uA	6	6	6	6	6
	Standby current test: Ref: 1.5mA	3.6	3.0	2.1	1.8	1.6
	Working current test at 1K 0db: Ref: 8mA	6.2	5.9	6.0	5.9	6.0
	Charging current test: Ref: 40mA	14	21	19	25	28
	Charging time test: Ref: <90 minutes	86	76	75	/	/
	Battery voltage of full charged_4.20V	4.20	4.20	4.19	/	/
	Low battery alarm test: Ref: <3.4V	3.2	3.2	3.2	3.2	3.2
	Over discharge protection test: Ref: < 3.1V	3.03	3.05	3.04	3.03	3.05
	Battery pack capacity test (Loading 0.2C >50mAh)	56	53	54	/	/
Remarks:						

A.11 CHECKLIST AND PERFORMANCE FOR UNIT

A.11.1 Visual appearance and processing		
	Inspection items	Results / remarks
Visual appearance and Processing	a. Dirty mark/ scratch mark / poor finishing / silk screening / mould mark / flash or dent on unit	Refer to A.2
	b. Mixed Colour, Mildews, Rust	Refer to A.2
	c. Printing on product: reliable	Refer to A.2
	d. Body deformed, crack, damage	Refer to A.2
	e. Switches / control /knobs / screw etc.	Refer to A.2
	f. Plug / supply cord (loosen / broken)	Refer to A.2
	g. Foreign material inside	Refer to A.2
	h. Front, back, side housing (gap / not tight / not align)	Refer to A.2
	i. Missing or damage of the parts / components	Refer to A.2
	Other	N/A
A.11.2 Function/operation and handling		
	Inspection items	Results / remarks
	a. AUTO ON / OFF technology	Pass

Function & Operation	(when the earphones are taken out of the charger case, they are automatically switched on and when they are put into the charger case, they are switched off)	
	b. Control panel: (Mono mode_ L or R earphone) - On / Off (left or right key: press long3-5s) - Play / Pause (left or right key: press x 1) - Next (left or right key: press long 2s) - Answer call (left or right key: press x 1) - Reject call (left or right key: long press 2s) - Redial (left or right key: press 2x)	Pass
	c. Control panel: (Stereo mode_ L&R earphone) - On (left & right key: press long3-5s) - Off (left or right key: press long3-5s) - Play / Pause (left or right key: press x 1) - Previous (left key: press long 2s) - Next (right key: press long 2s) - Answer call (left or right key: press x 1) - Reject call (left or right key: long press 2s) - Redial (left or right key: press 2x)	Pass
	d. Charging box LED indication: -LED light on 5s when charging or open the cover	Pass
	e. Earphone LED indication: -Charging_ red LED lights on -Pairing_ red & white LED flashes fast -Paired_ white LED flash slow -Full charged_ white LED flashes 3s -Low battery_ red LED flashes slow	Pass
	f. Bluetooth device name: STWSK 3 A1	Pass
	g. Bluetooth operating distance: >10M	
	h. Reconnection when out of range of range and returns within rang	Pass
	i. Reconnection when off/on (Earphone)	Pass
	j. Pairing when off/on (Phone)	Pass
	k. Auto standby time check: 5minutes	Pass
	others	N/A
Handling	a. Open the lid smoothly, with obvious magnetic force / no abnormal noise	Pass
	b. Earphone taken out or put into are easy, with obvious magnetic force	Pass
	c. The Type C plug needs to be fully insertable in the Type-C socket, stable and reliable	Pass
	others	
A.11.3 Safety and internal construction check		
	Inspection items	Results / remarks
Safety check 100% unit check unless specified	a. Charging overcurrent protection test (Charging box:5V 300mA) (Earphone: 40mA) Samples: 3pcs	Charging box: Pass Earphone: Pass
	b. Charging overvoltage protection test (Stop charging when >6V) Samples: 3pcs	Charging box: Pass Earphone: Pass
	c. Battery charging current test < 1C	Charging box: Pass

	Samples: 3pcs	Earphone: Pass
	d. Charging short circuit test Samples: 3pcs	Charging box: Pass Earphone: Pass
	e. Overcharge protection test Samples: 3pcs	Charging box: Pass Earphone: Pass
	f. Discharge short circuit test Samples: 3pcs	Charging box: Pass Earphone: Pass
	g. Over discharge protection test Samples: 3pcs	Charging box: Pass Earphone: Pass
	h. Protection deep discharge battery can't recharge (2V) _Actual <1.2V Samples: 2pcs	Charging box: Pass Earphone: Pass
	i. NTC protection test (0°C < charging temperature < 45°C) (-10°C < discharge temperature < 60°C) Samples: 3pcs	Charging box: Pass Earphone: Pass
	j. Drop test of whole unit_100cm/5times Samples: 3pcs	Pass
	k. Drop test of earphone_180cm/10times Samples: 3pcs	Pass
	l. IPX4 waterproof test Samples: 3pcs	Not support this feature.
Internal construction check According to S-2 unless specified	m. Internal wirings Wireways shall be smooth and free from sharp edges / movable parts / wirings welding point should be add glue fixed.	Pass
	n. Soldering joints: No cold solder, missing solder, solder spatter and lead protrusion too long	Pass
	o. Battery pack appearance intact, no damage / no deformation and bulging. Best before date of battery: Min. 3 years after shipment	Pass
	p. Material check (only check marking on the part surface) Charging box: ABS + PC Earphone: ABS + PC	No marking
	others	N/A
A.11.4 Performance test		
Test item		results
L/R Speaker sensitivity test		Reference only
Microphone sensitivity test		Reference only



B.1 PACKAGING CHECK

carton, giftbox, IM, flyer, polybag, polyfoam, egg tray etc.

		Pass	Fail	Pending	n/a
a,	Carton: paper, printing quality and shipping mark check according to released sample and artwork, EAN code scannable, weight and dimension correct	☐	☐	☐	☒
b,	GB: colour, paper and printing quality check according to released sample and artwork, EAN code, transparent round sticker applied for GB sealing	☐	☐	☐	☒
c,	GB: technical data, compliance logo and symbols check	☐	☐	☐	☒
d,	Cutting protection existing at top/bottom (Lidl order needed, or option)	☐	☐	☐	☒
e,	IM, flyer: paper and printing quality check according to released sample and artwork	☐	☐	☐	☒
f,	IM, flyer: technical data, compliance logo and symbols check	☐	☐	☐	☒
g,	Polybag: material ID, recycle mark, warnings and suffocation hole.	☐	☐	☐	☒
h,	Correct packing way followed, no damage and inside no loose	☐	☐	☐	☒
i,	Others	----	☐	☐	☒
Remarks:		Silver-4055334234498 / Blue-4055334234504 / Green-4055334234511 / Red-4055334234528			

B.2 DROP TEST (according to DIN EN22248)

Pilot test once/MP test twice if no failure		☐ Pass ☐ Fail ☐ Pending ☒ n/a	
up to 9kg,76cm up to 18kg,61cm up to 25kg,46cm	one corner three edges six faces	Tested height	full carton/sales packing weight
			full GB weight:
			unit per carton
Tested quantity	Summary OK unit: NG unit:	Mechanical	☐ Pass ☐ Fail ☐ Pending ☐ n/a
		Hi-pot	☐ Pass ☐ Fail ☐ n/a
		Function	☐ Pass ☐ Fail ☐ Pending ☐ n/a
		Packaging	☐ Pass ☐ Fail ☐ Pending ☐ n/a
N/A		N/A	
Remarks:			

C.1 REMARKS / OBSERVATION

1. Factory cannot provide approved sample and CDF file for check. 2. The weight of charging case and headphone was exceed -5% of spec. 3. The Logo of the charging box can be erased with alcohol, and the screen printing of ® is not clear. 4. Requested lot quantity is 124 units, factory was finished 80 units. 5. The earphone does not support IPX4 waterproof.
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C.2 SERIAL NUMBER OF INSPECTED UNITS

No serial number for this lot shipment
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D. PHOTO DOCUMENTATION

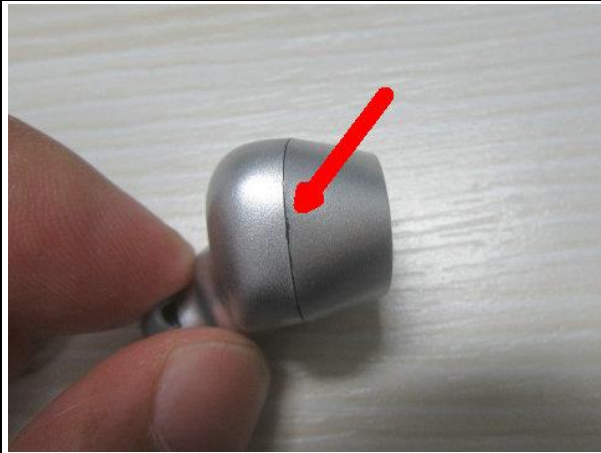
D.1 Photo of defectives	
	
The knob is not in center and the gap is not uniform - 5pcs	The knob is not in center and the gap is not uniform - 5pcs



The knob is lower than the surface of the housing
- 5pcs



The knob is higher than the surface of the housing
- 3pcs



The gap on housing of earphone is too large
- 3pcs



The housing of earphone had steps - 2pcs

D.2 Photo of warehouse, packaging and unit



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



Unit details



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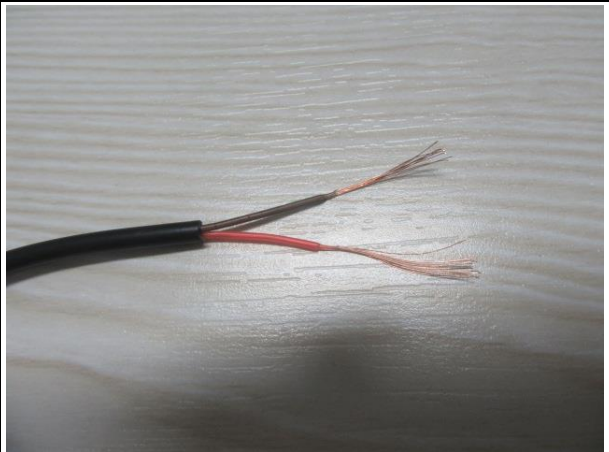
Unit details



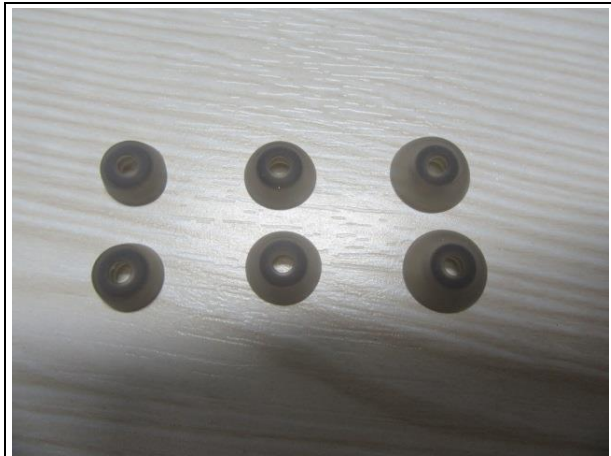
Unit details



Unit details



Unit details

	
Ear cushions	Ear cushions assembly test
	NIL
Ear cushions assembly test	N/A
D.3 Photo of testing, measurements (silkscreen, weight, data, performance etc..)	
	
CE mark height check	WEEE mark height check



Unit size check



Unit size check



Unit size check



Earphone size check



Earphone size check



Earphone size check



USB cable length check



USB cable length check



Weight check



Weight check



Weight check



3M tape test



3M tape test



3M tape test



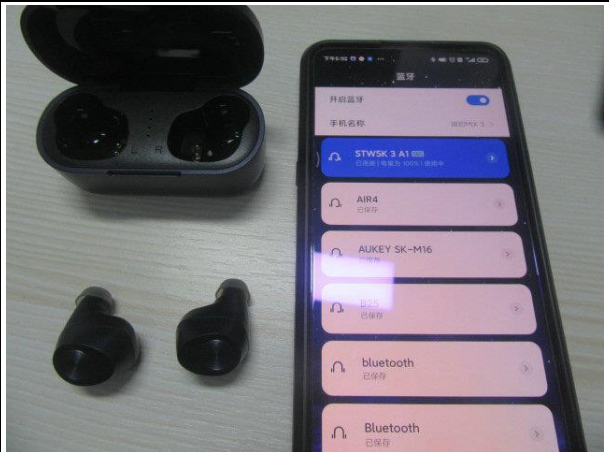
Rubbing test with alcohol



Function test



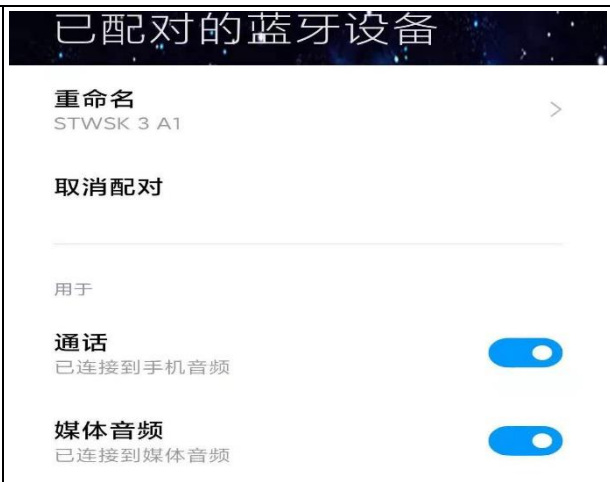
Function test



Function test



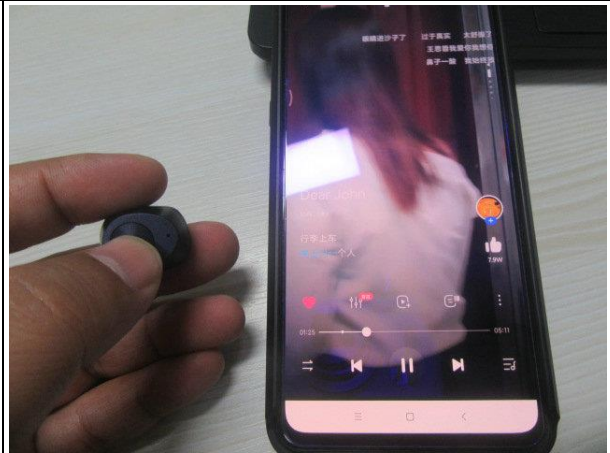
Function test



Function test



Function test



Function test



Function test



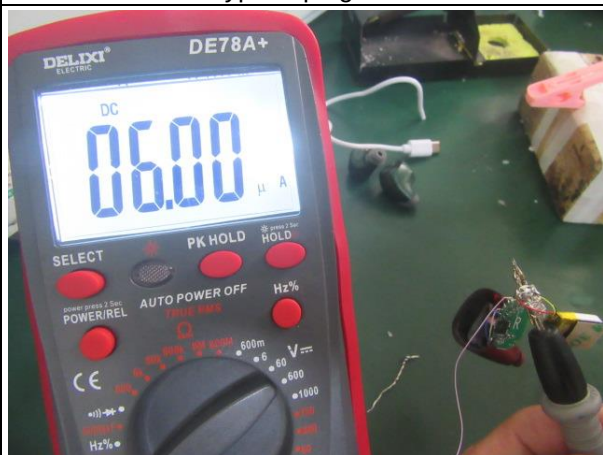
Bluetooth operating distance test



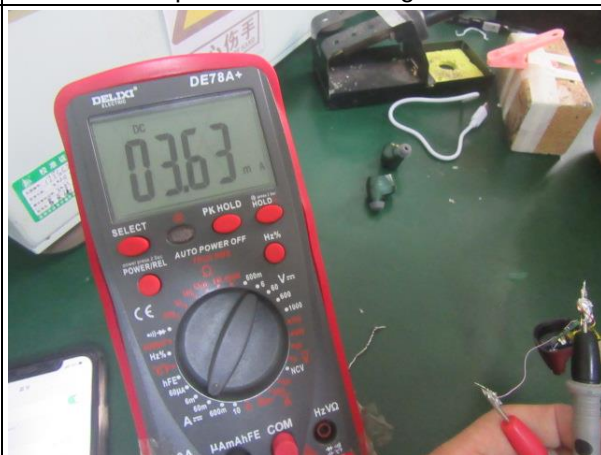
Type-C plug test



Earphone default voltage test



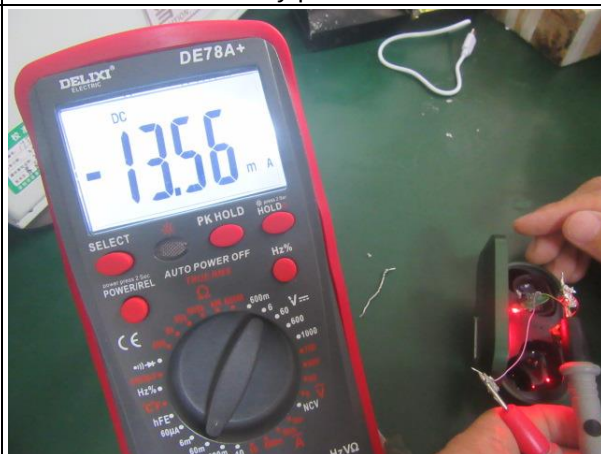
Static current test



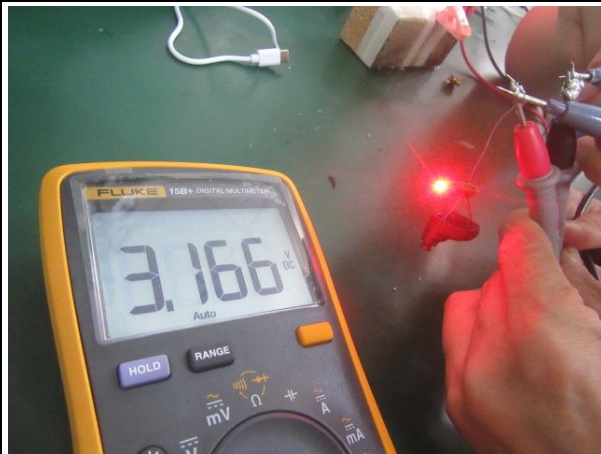
Standby power test



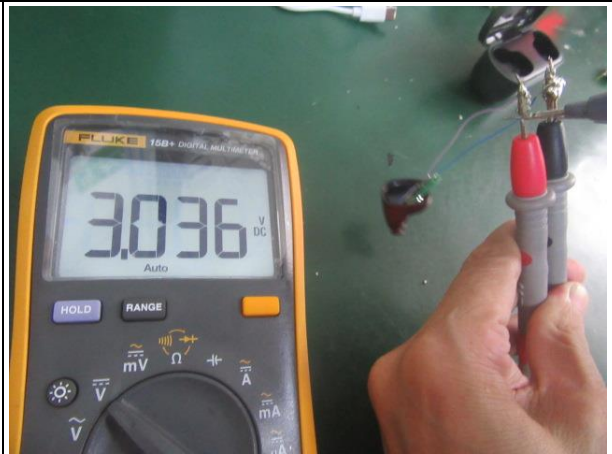
Working current test



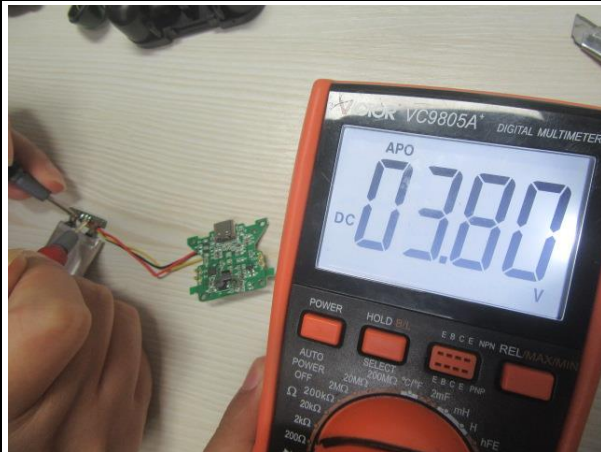
Charging current test



Low battery alarm test



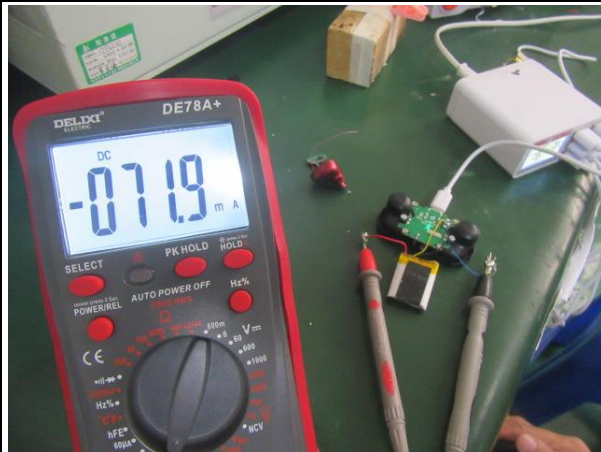
Over discharger protection test



Charging box default voltage test



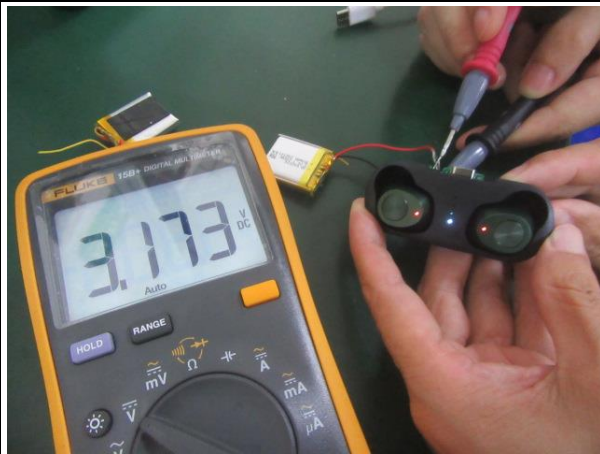
Static current test



Input current test



Output current test



Low battery alarm test



Over discharge protection test



Drop test of whole unit-100cm/5times



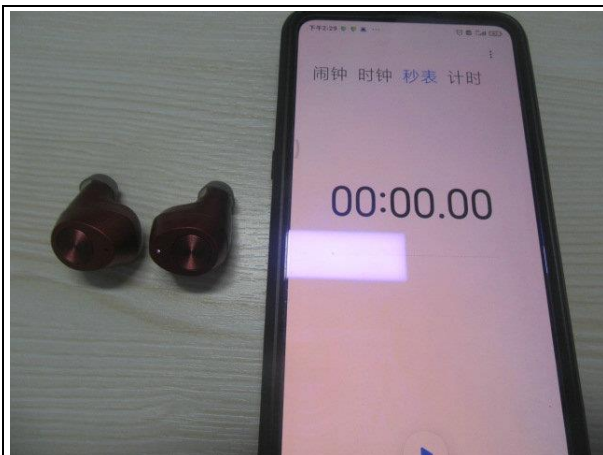
Drop test of whole unit-100cm/5times



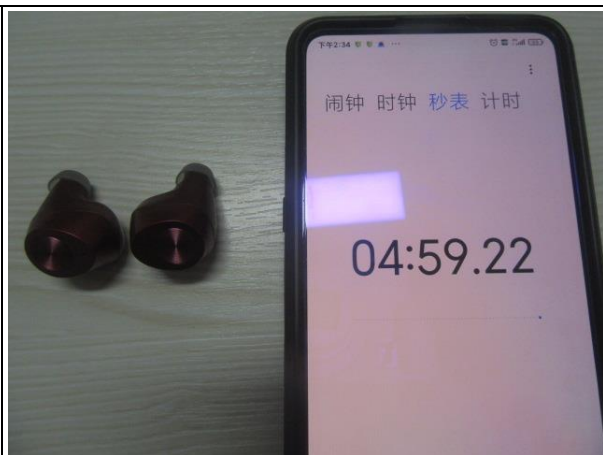
Drop test of earphone -180cm/10times



Drop test of earphone -180cm/10times



Auto power off time test



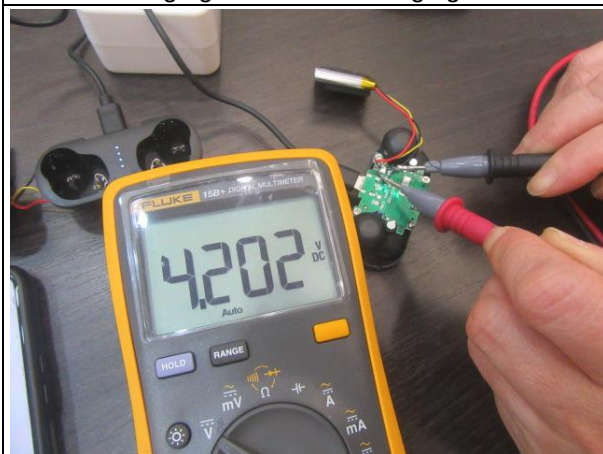
Auto power off time test



Charging time test of charging box



Charging time test of charging box



Battery voltage of full charged



Charging time test of earphone



Charging time test of earphone



Battery voltage of full charged



Battery capacity test

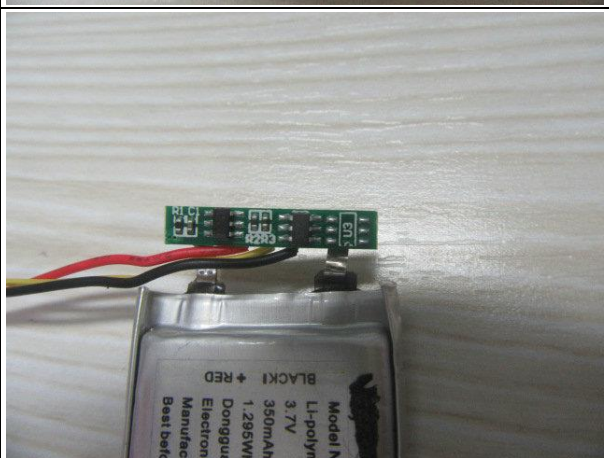
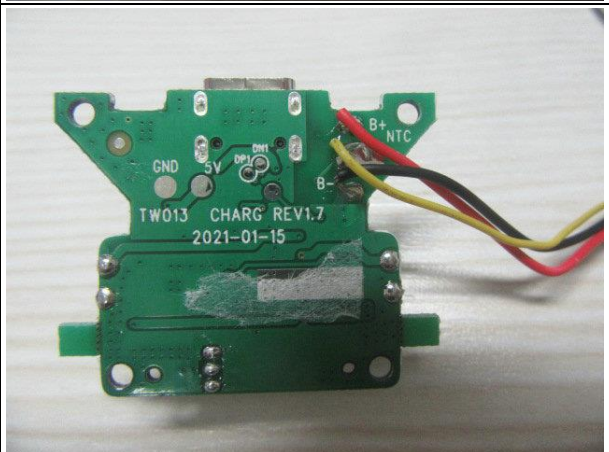
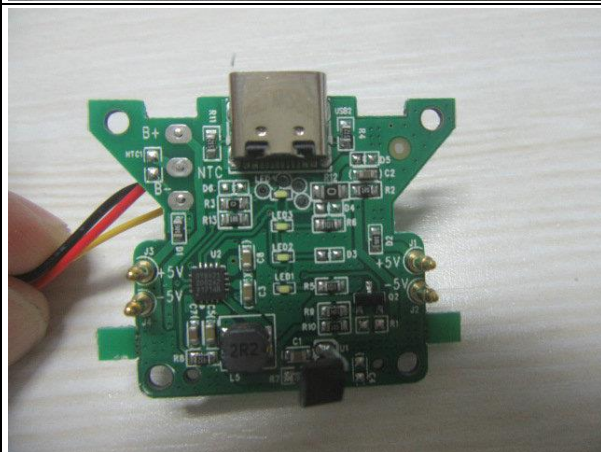
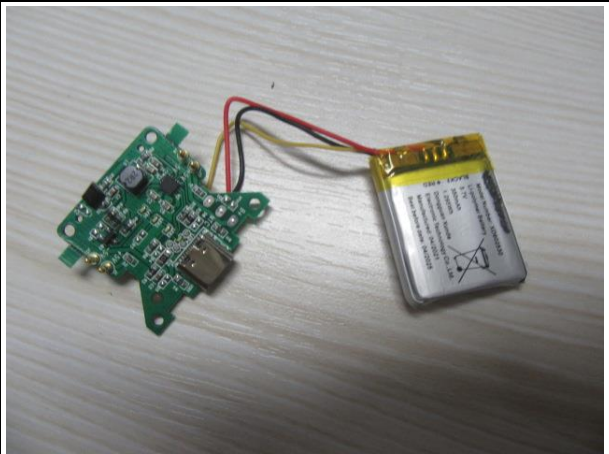
序号	循环号	工步	电流	电压	容量	时间
274	1	恒流放电	175.409	2.808	426.72	8760
275	1	恒流放电	175.409	2.744	427.55	8777
序号	循环号	工步	电流	电压	容量	时间
295	1	恒流放电	174.293	2.753	433.7	8940
296	1	恒流放电	174.851	2.736	433.8	8942

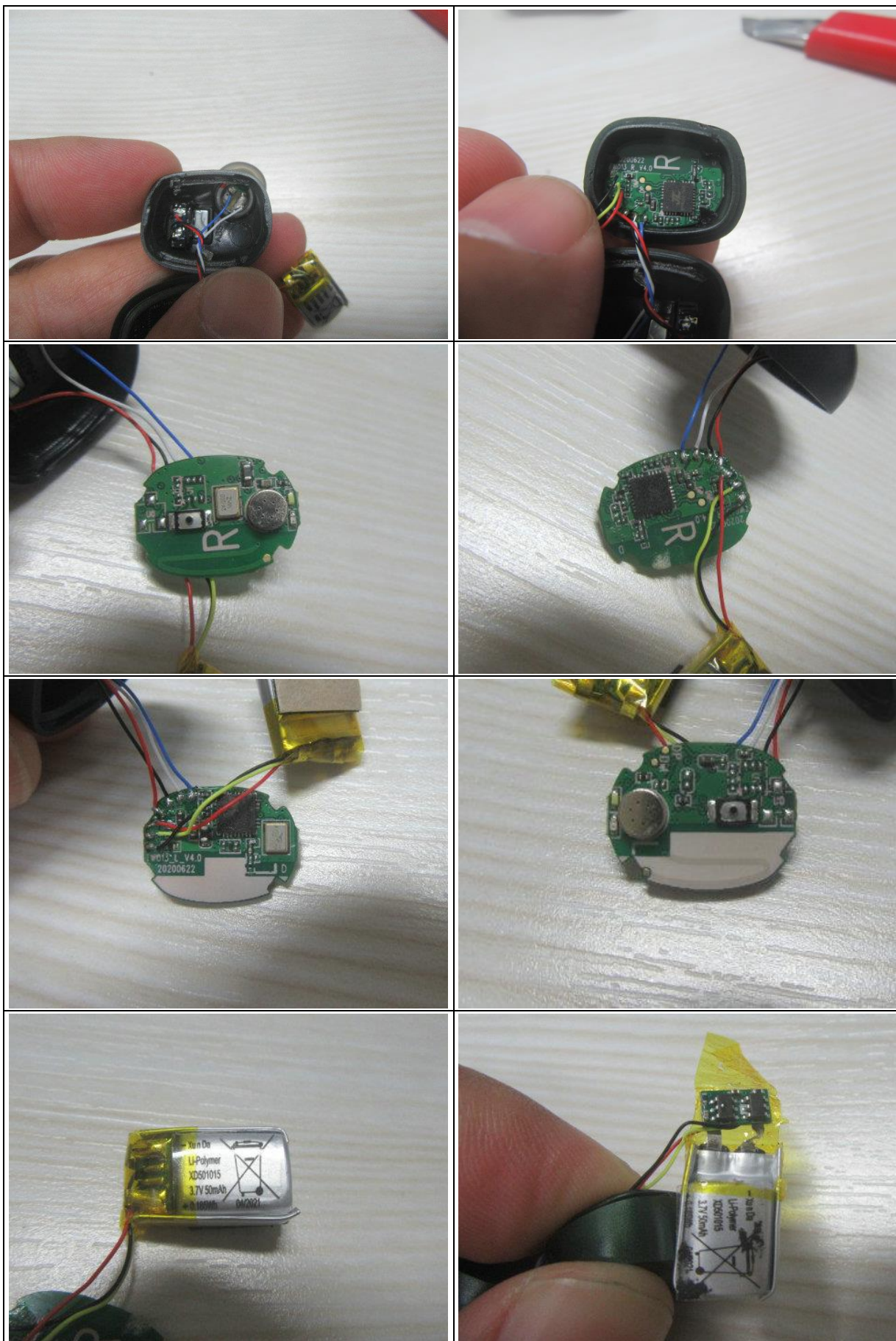
Charging box battery capacity test

序号	循环号	工步	电流	电压	容量	时间
187	1	恒流放电	24.554	2.945	56.47	8280
188	1	恒流放电	24.74	2.741	56.58	8296
序号	循环号	工步	电流	电压	容量	时间
187	1	恒流放电	25.298	2.998	52.84	7620
188	1	恒流放电	25.298	2.705	53.02	7646

Earphone battery capacity test

D.4 Photo of internal construction check





D.5 Draft defective record



DEFECTIVES IN INSPECTION 检验不良品统计

Project number / product 项目号码/ 产品

No.	
1	按键不居中 - 5PU
2	按键低 - 5PU
3	按键高 - 3PU
4	耳机外壳缝隙大 - 3PU
5	耳机外壳断差 - 2PU
6	
7	

QC IN CHINA Inspector

Remarks:

- ① 完成 80PU, 全检 80PU
- ② 充电盒 logo 能用酒精擦掉, 因此刷不清楚.
- ③ 2T 不能提颜色样板作对比.
- ④ 充电盒和耳机重量低于 -5% 范围.
- ⑤ 2T 不能提供 IPX 防水检查.

TGI Inspector

Supplier/Manufacturer

Jerry Fu

China

Date: Apr 07, 2021

Date

Unit 601-604, 8th Floor, Hilder Centre, 2 Queen's Road East, Hong Kong

END