

TEST REPORT

Report No.: BCTC2101367830-2E

Applicant: Fortyfour group LLC

Product Name: BT Speaker Plus Wireless Charging

Model/Type Ref.: Temblor

Tested Date: 2021-01-15 to 2021-02-03

Issued Date: 2021-02-04

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AWVU-TEMBLOR

Product Name: BT Speaker Plus Wireless Charging
Trademark: N/A
Model/Type Ref.: Temblor
Prepared For: Fortyfour group LLC
Address: 600 San Ramon Valley Blvd Suite 200 Danville CA 94526
Manufacturer: Fortyfour group LLC
Address: 600 San Ramon Valley Blvd Suite 200 Danville CA 94526
Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan
1st Road, Tangwei, Fuhai Subdistrict, Bao'an District,
Shenzhen, Guangdong, China
Sample Received Date: 2021-01-14
Sample tested Date: 2021-01-15 to 2021-02-03
Issue Date: 2021-02-04
Report No.: BCTC2101367830-2E
Test Standards FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results PASS

Tested by:



Eric Yang/Project Handler

Approved by:



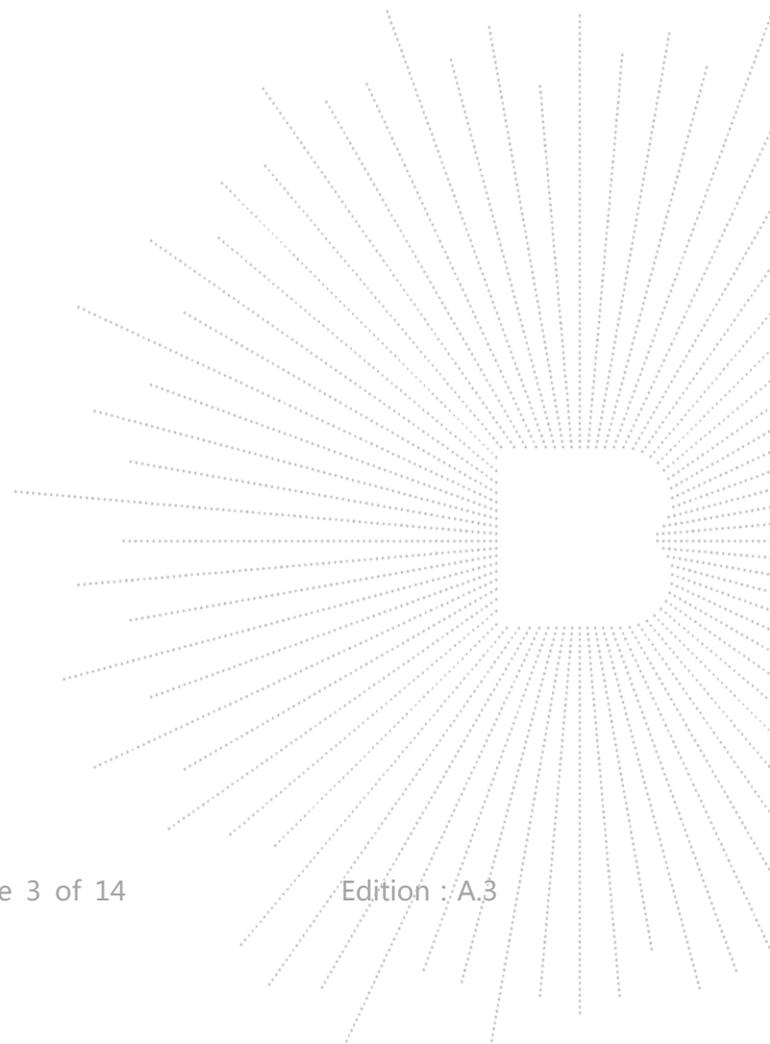
Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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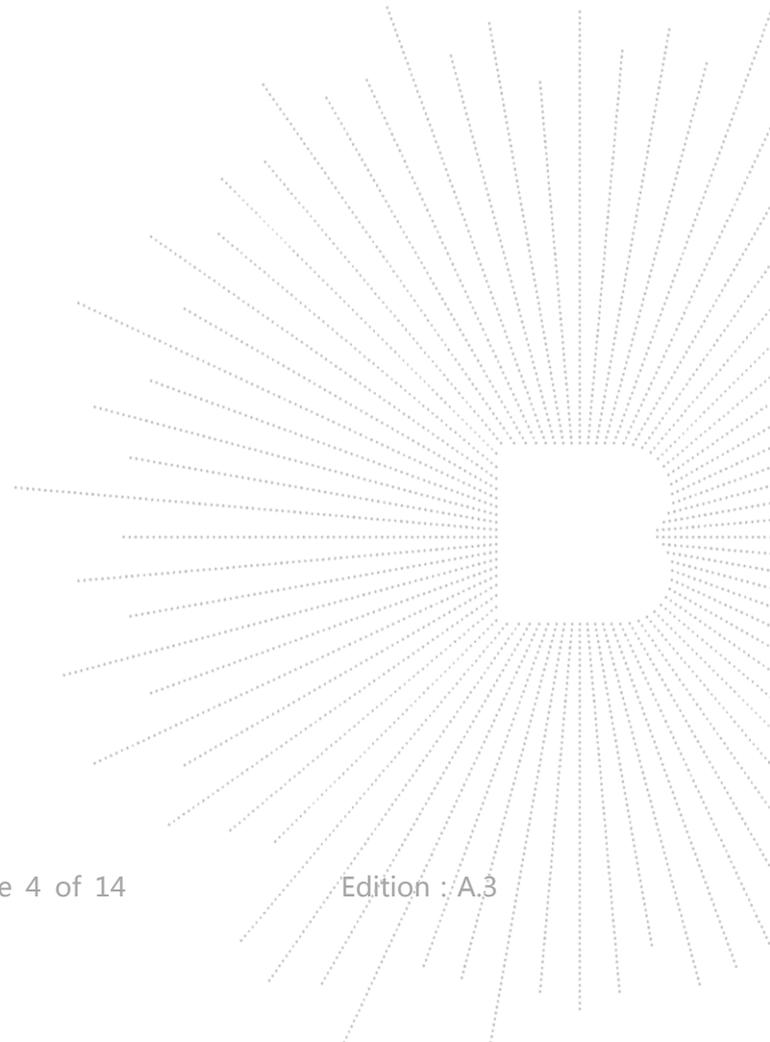
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(Note: N/A means not applicable)



1. VERSION

Report No.	Issue Date	Description	Approved
BCTC2101367830-2E	2021-02-04	Original	Valid



2. PRODUCT INFORMATION

2.1 Product Information

Model/Type Ref.: Temblor
 Model differences: N/A
 Product Description: BT Speaker Plus Wireless Charging
 Operation Frequency: 115kHz-220kHz
 Antenna installation: loop coil antenna
 Ratings: DC 3.7V From Battery
 DC 5V/2A From adapter
 Wireless charging:5W

2.2 Support Equipment

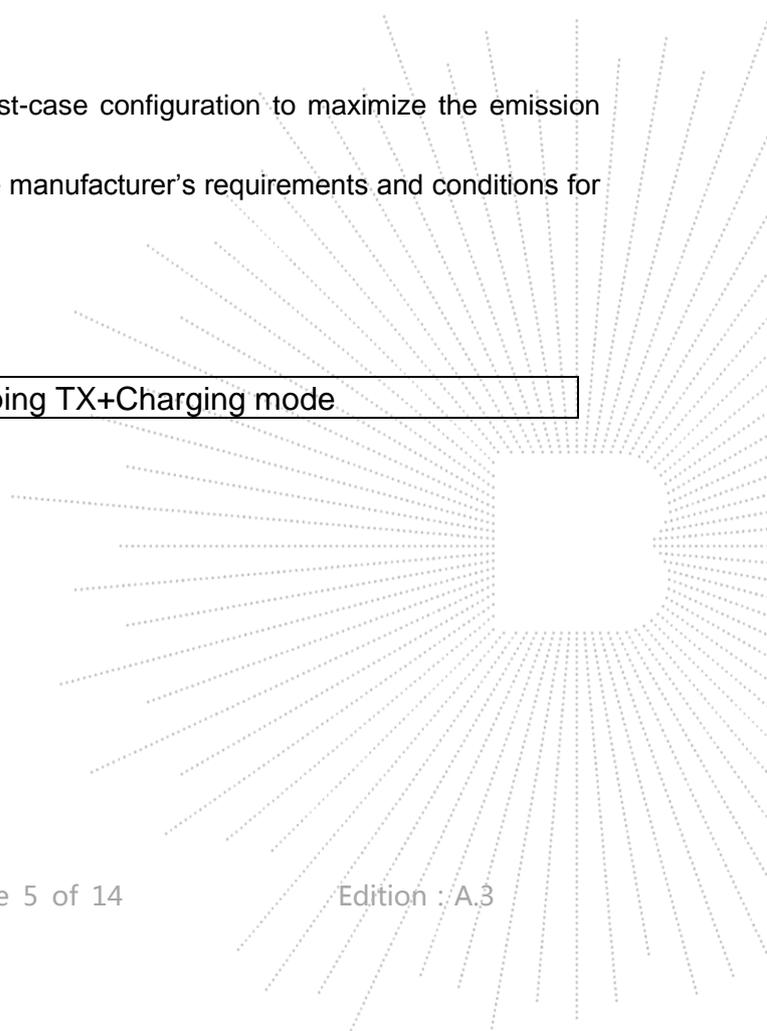
Device Type	Brand	Model	Series No.	Data Cable	Remark
Mobile phone	iphone	iphone8P	N/A	N/A	Auxiliary

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

Test Modes	keeping TX+Charging mode
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3. TEST FACILITY AND TEST INSTRUMENT USED

3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

3.2 Test Instrument Used

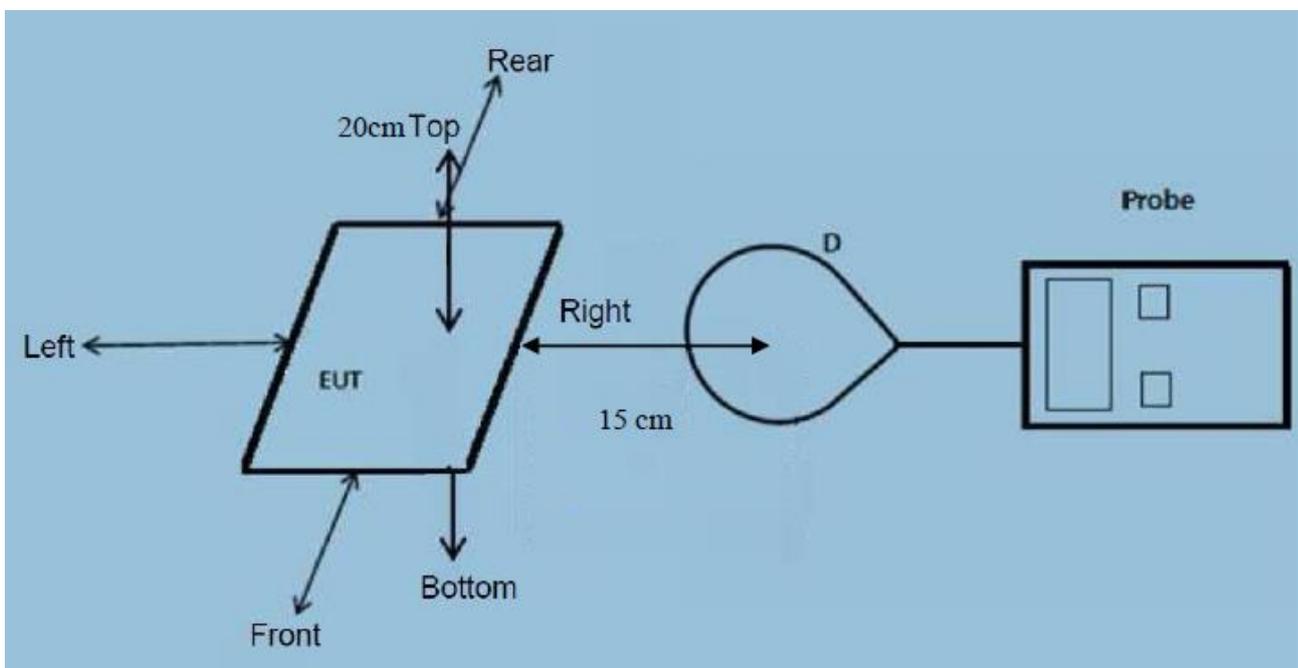
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Exposure Level Tester	Narda	ELT-400	N-0231	Jul. 15, 2020	Jul. 14, 2021
Magnetic field probe 100cm2	Narda	B-Field Probe 100cm2	M0675	Jul. 15, 2020	Jul. 14, 2021
843 Chamber	ETS	843	84301	Aug. 27, 2020	Aug. 26, 2023

4. METHOD OF MEASUREMENT

4.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

4.2 Block Diagram Of Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

4.3 Limit

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

4.4 Test procedure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

4.5 Equipment Approval Considerations

The EUT does comply with item 5(b) of KDB 680106 D01v03

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 115-220KHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

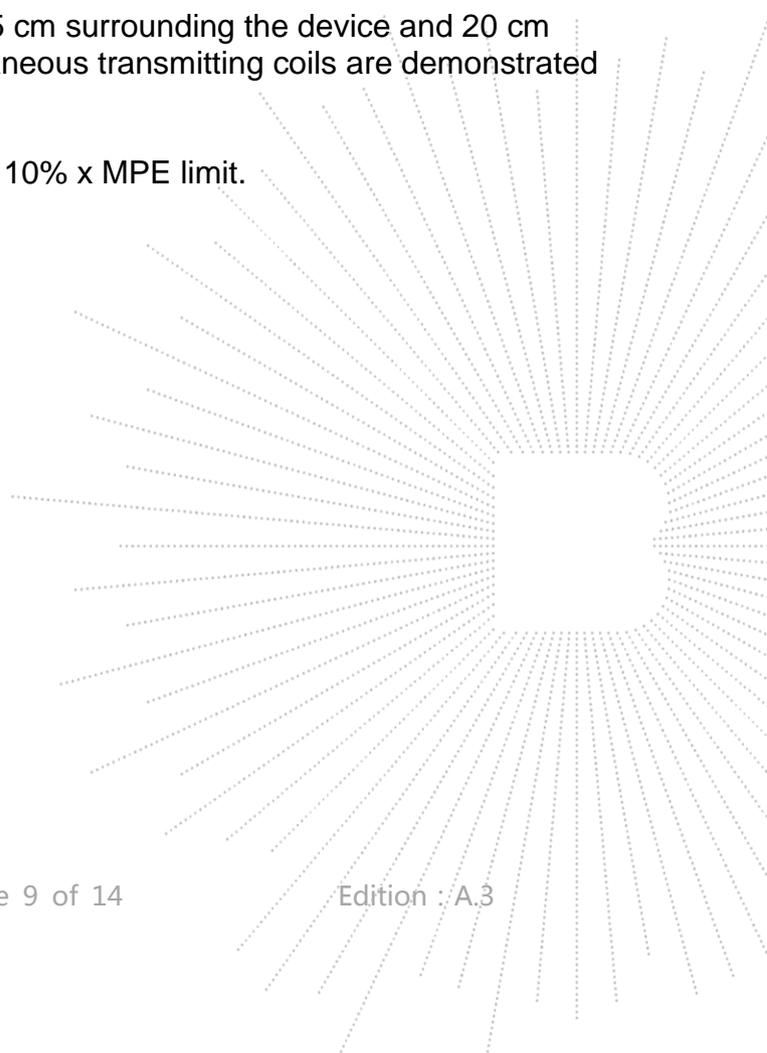
Yes, client device is placed directly in contact with the transmitter.

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, the EUT is a Mobile exposure device.

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT field strength levels are 10% x MPE limit.



4.6 E and H field Strength

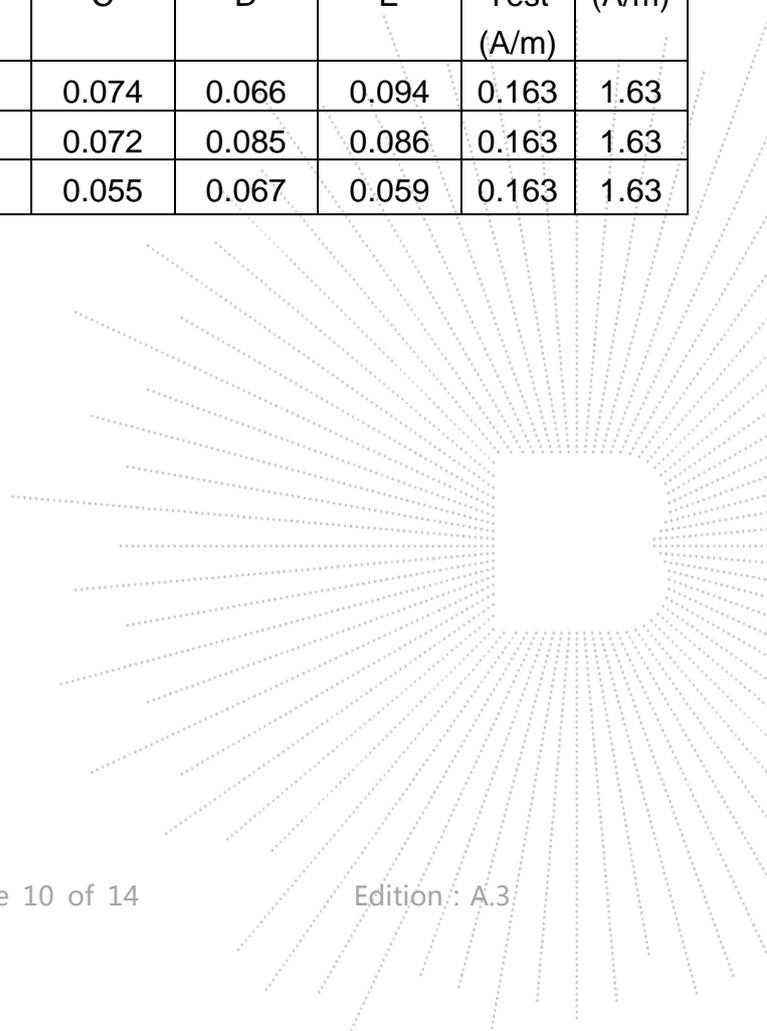
(The worst data)

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

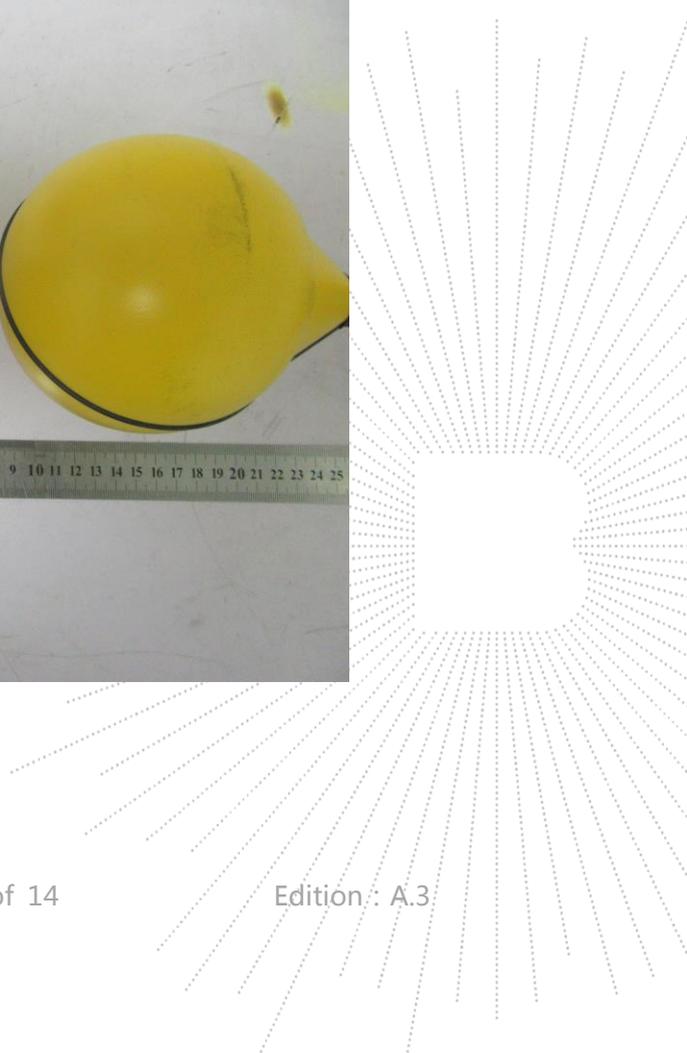
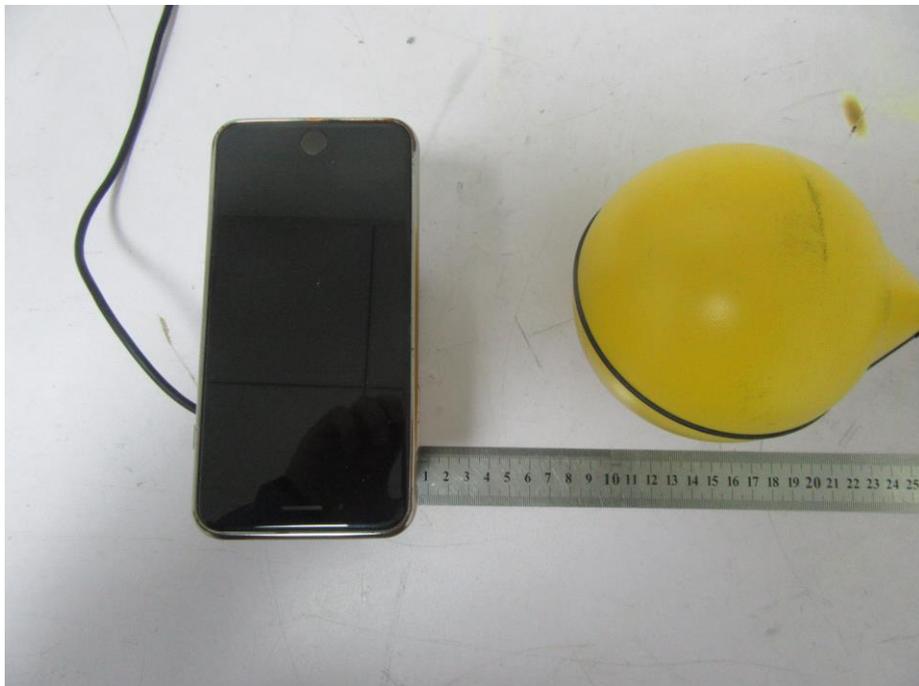
Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	10% Limits Test (V/m)	Limits Test (V/m)
1%	0.115-0.220	0.62	0.78	0.74	0.67	0.65	61.4	614
50%	0.115-0.220	0.64	0.64	0.62	0.54	0.59	61.4	614
99%	0.115-0.220	0.56	0.63	0.64	0.53	0.61	61.4	614

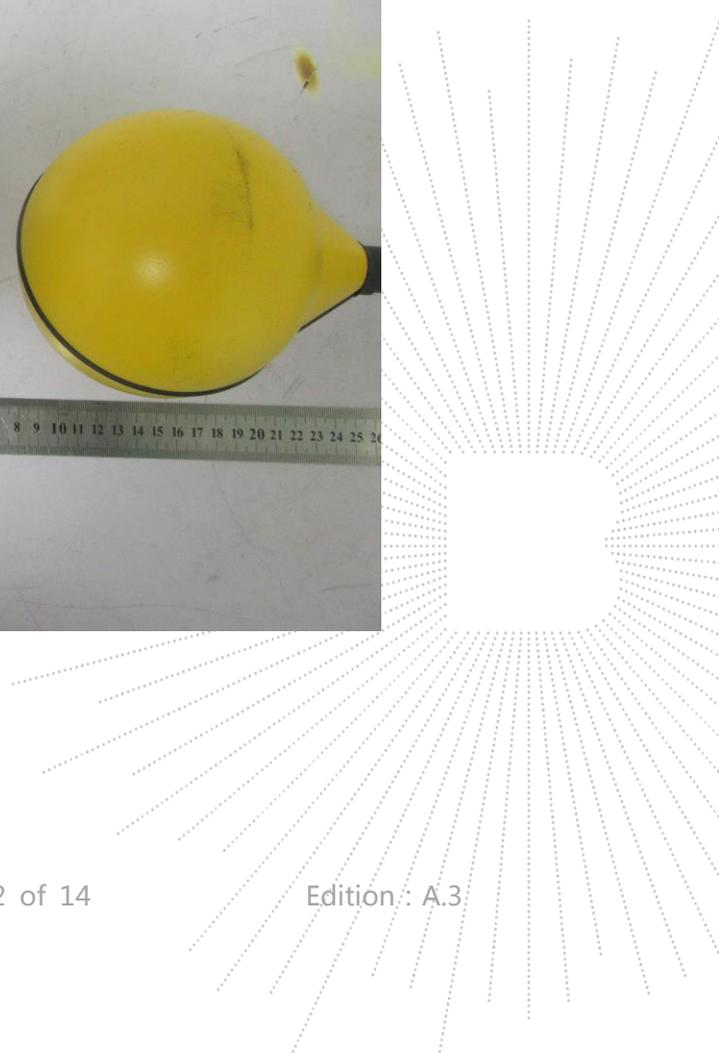
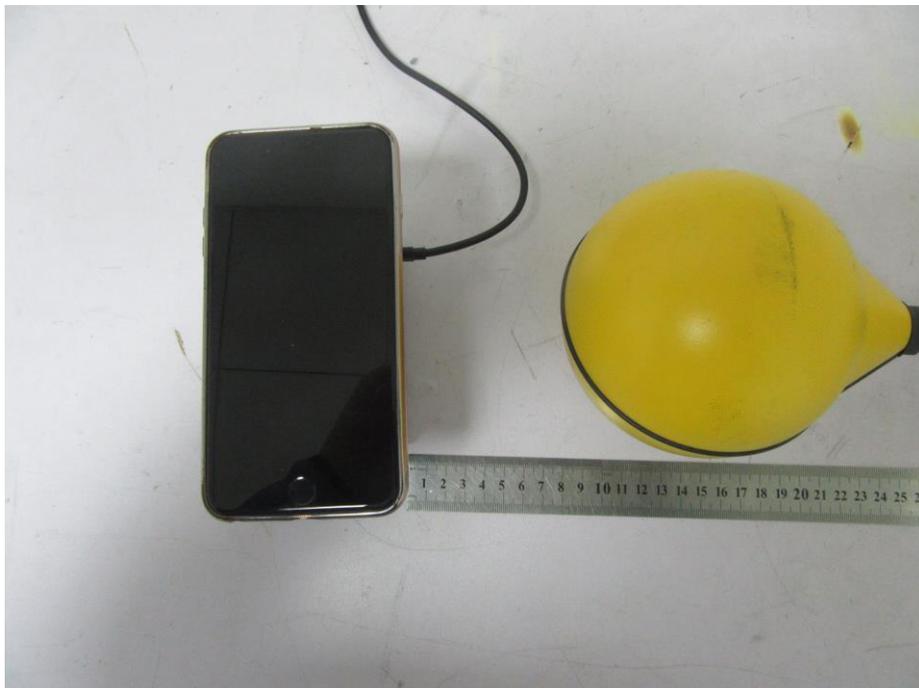
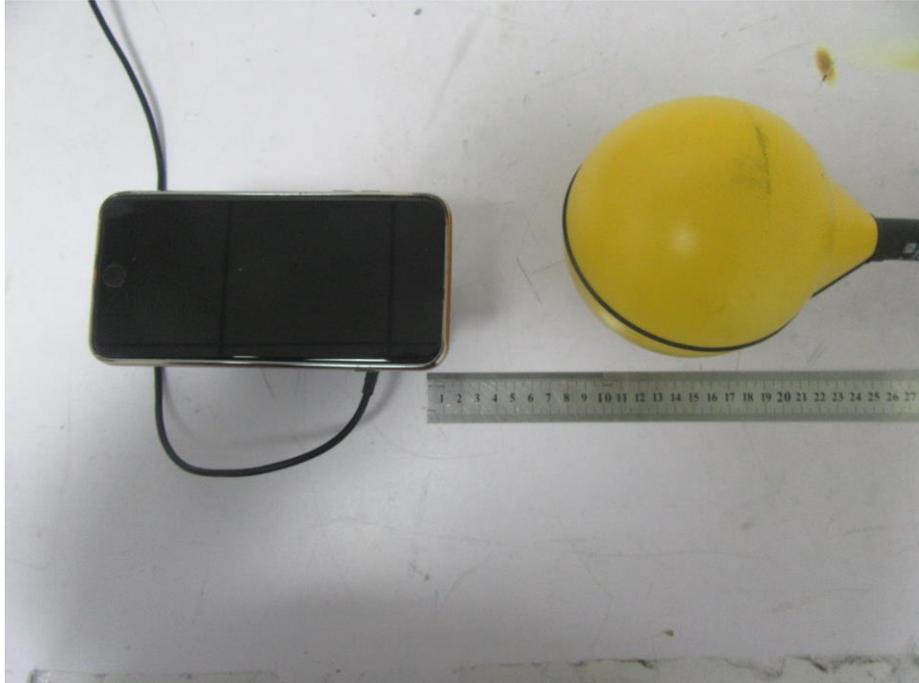
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

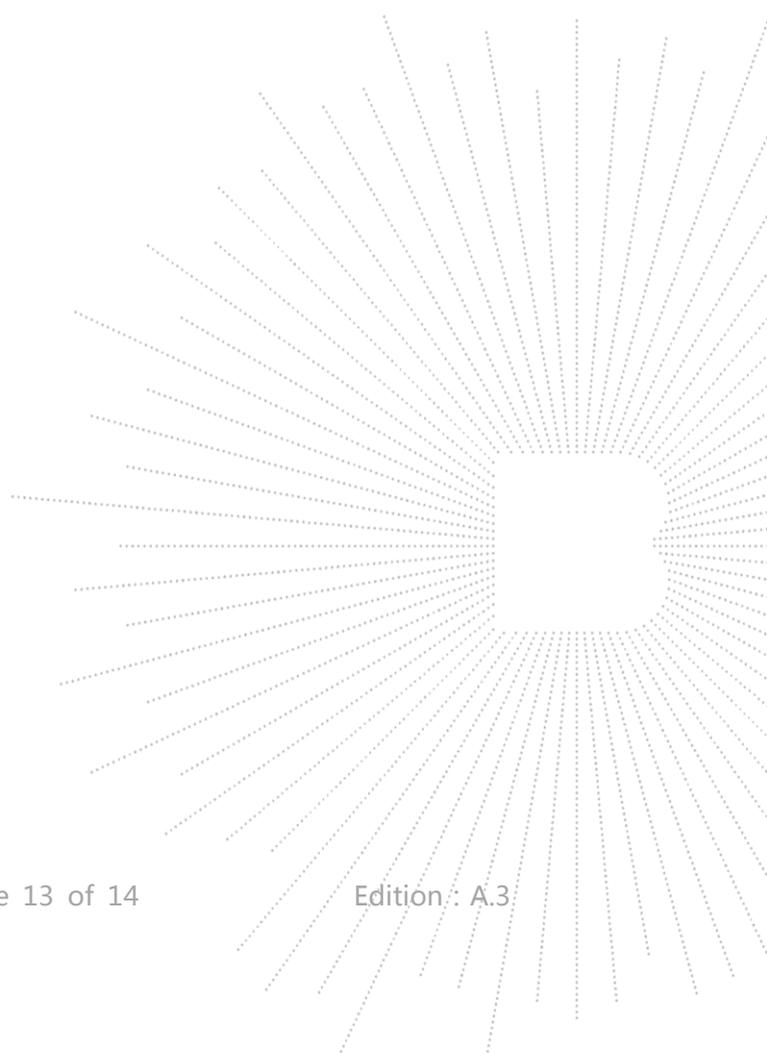
Battery level	Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	10% Limits Test (A/m)	Limits Test (A/m)
1%	0.115-0.220	0.064	0.105	0.074	0.066	0.094	0.163	1.63
50%	0.115-0.220	0.052	0.057	0.072	0.085	0.086	0.163	1.63
99%	0.115-0.220	0.039	0.066	0.055	0.067	0.059	0.163	1.63



5. PHOTOGRAPHS OF TEST SET-UP







STATEMENT

- 1.The equipment lists are traceable to the national reference standards.
- 2.The test report can not be partially copied unless prior written approval is issued from our lab.
- 3.The test report is invalid without stamp of laboratory.
- 4.The test report is invalid without signature of person(s) testing and authorizing.
- 5.The test process and test result is only related to the Unit Under Test.
- 6.The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7.If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

