

FCC KDB 680106 TEST REPORT
for
SUB AirCharge LCD/LED Water Proof Scale
Model No.: SUB/SUBe
FCC ID: 2BFJV000001

of

Applicant: EXCELL PRECISION CO., LTD..
Address: 6F., No. 127, Lane 235, Baoqiao Road, Xindian District,
New Taipei City 23145, Taiwan

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A



Report No.: W6M22309-22961- KDB680106

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: wts@wts-lab.com



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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.

Tester:

May 28, 2024

Sora Kuo

Sora

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

May 28, 2024

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6613-0228

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,
Taipei City 114, Taiwan (R.O.C.)
Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1477, TW1072

Industry Canada filed test laboratory Reg. No.: 20037, 5107A

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name:	./.
Accredited number:	./.
Street:	./.
Town:	./.
Country:	./.

1.3 Details of approval holder

Name:	EXCELL PRECISION CO., LTD.
Street:	6F., No. 127, Lane 235, Baoqiao Road, Xindian District,
Town:	New Taipei City 23145,
Country:	Taiwan



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1.4 Application details

Date of receipt of test item: September 15, 2023

Date of test: from September 18, 2023 to February 07, 2024

1.5 General information of Test item

Type of test item: SUB AirCharge LCD/LED Water Proof Scale

Model number: SUB/SUBe

Multi-listing model number: ./.

Brand name: EXCELL

Transmitting frequency: 128 kHz

Power supply: Adaptor(I/P: 100-240V-50/60Hz 0.5A Max
O/P: 12.0V=1.5A 18.0W)
Battery 3.7Vd.c.

Sample no.: #01

Manufacturer: (if different from Approval Holder)

Name: ./.

Street: ./.

Town: ./.

Country: ./.

1.6 Test standards

Technical standard : 680106 D01 Wireless Power Transfer v04



FCC ID: 2BFJV000001

2 Technical test

2.1 Summary of test results

☒

or

1

2.2 Test environment

Details of power supply	Adaptor(I/P: 100-240V-50/60Hz 0.5A Max O/P: 12.0V=1.5A 18.0W) Battery 3.7Vd.c.
-------------------------	--

$$\max : -- V$$

Test item Name	Measurement Uncertainty
Estimation Result of Uncertainty of Nerve Stimulation (NS)	Expanded Uncertainty : 1.61 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.

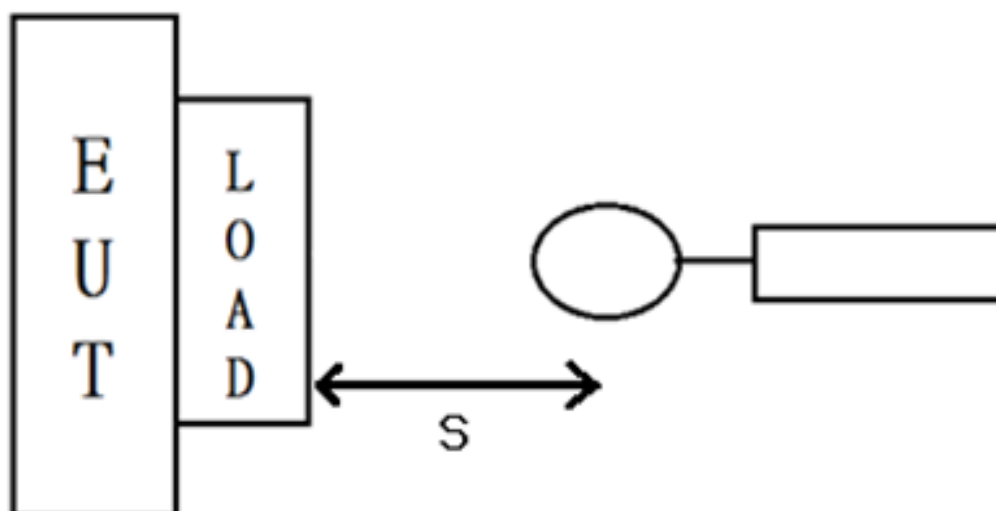
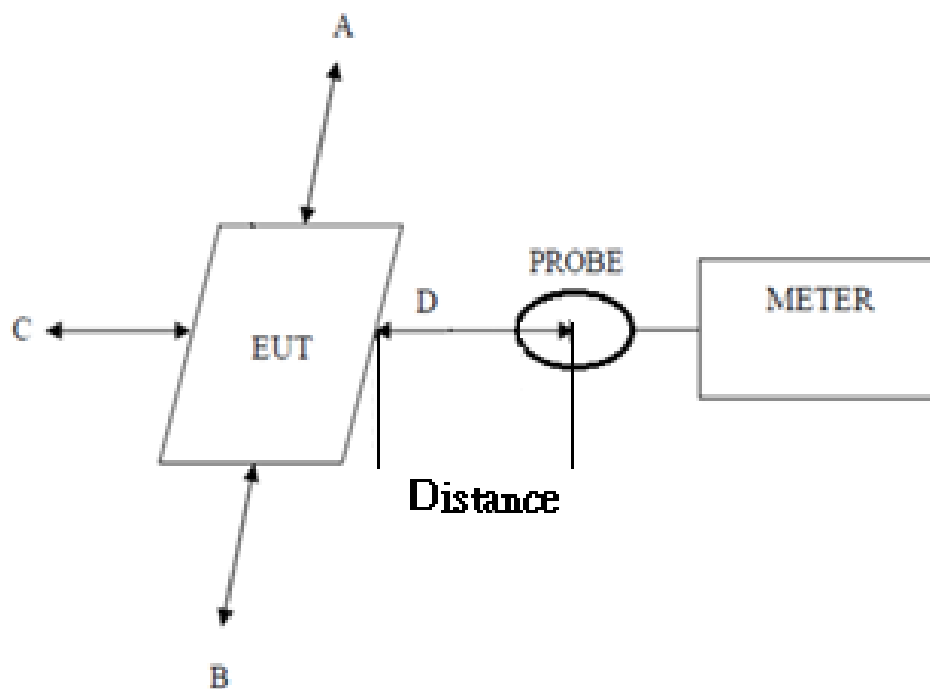
2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-RF 002	Broadband Field Meter Temperature Humidity	NBM-520	D-0651	Narda	2023/6/13	2024/6/12

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3 Test Setup





Worldwide Testing Services(Taiwan) Co., Ltd.

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Test Result:

Test date: February 07, 2024

Temperature: 16.8 °C

Humidity: 59.9 %

Tester: Sora

Measure E-Field Strength								
Distance(cm)	TYPE	Result(V/m)						Limit(V/m)
		TOP	BOTTOM	LEFT	RIGHT	FRONT	BACK	
8	Measure	1.162	1.229	1.145	1.164	1.193	1.094	614
10	Measure	0.963	0.961	0.811	0.895	1.014	0.959	614
12	Measure	0.924	0.875	0.791	0.74	0.739	0.734	614
14	Measure	0.658	0.685	0.64	0.671	0.687	0.668	614
16	Measure	0.547	0.596	0.517	0.52	0.644	0.623	614
18	Measure	0.483	0.559	0.422	0.439	0.56	0.488	614
20	Measure	0.352	0.392	0.416	0.425	0.518	0.446	614

Distance(cm)	Result(A/m)																		Limit(A/m)
	TOP			BOTTOM			LEFT			RIGHT			FRONT			BACK			
	Measure	Estimate	validation(%)	Measure	Estimate	validation(%)	Measure	Estimate	validation(%)	Measure	Estimate	validation(%)	Measure	Estimate	validation(%)	Measure	Estimate	validation(%)	
8	0.0814	0.1149	-29.16%	0.7921	1.12	-29.28%	0.1969	0.1731	13.75%	0.2014	0.1743	15.55%	0.736	0.6593	11.63%	0.0813	0.0804	1.12%	1.63
10	0.0642	0.0718	-10.58%	0.6271	0.8925	-29.74%	0.1443	0.1205	19.75%	0.1453	0.1209	20.18%	0.434	0.401	8.23%	0.0681	0.0612	11.27%	1.63
12	0.0441	--	--	0.5479	--	--	0.1033	--	--	0.1037	--	--	0.3476	--	--	0.0531	--	--	1.63

Measure/calculate H-Field Strength								
Distance(cm)	TYPE	Result(A/m)						Limit(A/m)
		TOP	BOTTOM	LEFT	RIGHT	FRONT	BACK	
0	calculate	0.9893	1.5873	0.9845	1.007	1.435	0.2981	1.63
2	calculate	0.7142	1.4359	0.4922	0.5035	1.293	0.1788	1.63
4	calculate	0.42	1.2143	0.3281	0.3356	1.156	0.1277	1.63
6	calculate	0.1666	0.9142	0.2461	0.2517	0.8995	0.0993	1.63
8	Measure	0.0814	0.7921	0.1969	0.2014	0.736	0.0813	1.63
10	Measure	0.0642	0.6271	0.1443	0.1453	0.434	0.0681	1.63
12	Measure	0.0441	0.5479	0.1033	0.1037	0.3476	0.0531	1.63
14	Measure	0.0398	0.5071	0.0787	0.0661	0.2418	0.0412	1.63
16	Measure	0.036	0.3544	0.0574	0.0486	0.1152	0.0327	1.63
18	Measure	0.0283	0.2557	0.0445	0.0392	0.088	0.0251	1.63
20	Measure	0.02	0.179	0.0352	0.0269	0.0656	0.0207	1.63



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Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30
F=frequency in MHz *=Plane-wave equivalent power density RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).				

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. 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. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. Below 100 kHz, applicable reference levels for maximum instantaneous exposure field strengths are defined in clause 3.a).(2).

Test equipment used: ETSTW-RF 002