

RF Exposure Report

For

Shenzhen Semetor Electronics Co., LTD **Applicant Name:**

B3, 3th floor, guanglong building, No.162, pingxin north road,

hehua community, pinghu street, longgang district, shenzhen city, Address:

guangdong

EUT Name: MUTI-FUNCTION WIRELESS CHARGER

Brand Name:

COLSUR

Model Number: S05

Issued By

BTF Testing Lab (Shenzhen) Co., Ltd. **Company Name:**

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF240313R00305

Test Standards: 47 CFR Part 1 Subpart I Section 1.1310

FCC ID: 2AYRH-S05

Test Conclusion: Pass

2024-03-15 to 2024-04-25 Test Date:

Date of Issue: 2024-04-25

Prepared By:

Ace the

Ace Xie / Date:

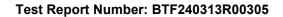
2024-04

Approved By:

Ryan.CJ / E

2024-04-25 Date:

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History					
Version Issue Date Revisions Content					
R_V0	2024-04-25	Original			
Note: Once the revision has been made, then previous versions reports are invalid					

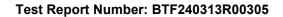




Table of Contents

1. Introduction	
1.1 Identification of Testing Laboratory	4
1.2 Identification of the Responsible Testing Location	4
1.3 Laboratory Condition	4
1.4 Announcement	
2. Product Information	5
2.1 Application Information	5
2.2 Manufacturer Information	5
2.3 Factory Information	5
2.4 General Description of Equipment under Test (EUT)	5
3. Test Requirement	5
3.1 Assessment Result	8
3.2 Test Set-up Photo	9



Test Report Number: BTF240313R00305

1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.		
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China		
Phone Number:	+86-0755-23146130		
Fax Number:	+86-0755-23146130		

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
FCC Registration Number: 518915		
Designation Number:	CN1330	

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.



Test Report Number: BTF240313R00305

2. Product Information

2.1 Application Information

Company Name:	Shenzhen Semetor Electronics Co., LTD
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, guangdong

2.2 Manufacturer Information

Company Name:	Shenzhen Semetor Electronics Co., LTD
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, guangdong

2.3 Factory Information

Company Name:	Shenzhen Semetor Electronics Co., LTD
Address:	B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community, pinghu street, longgang district, shenzhen city, guangdong

2.4 General Description of Equipment under Test (EUT)

EUT Name:	MUTI-FUNCTION WIRELESS CHARGER
Under Test Model Name	S05

3. Test Requirement



Test Report Number: BTF240313R00305

KDB 680106 D01 RF Exposure Wireless Charging App v03

Human exposure to RF Low frequency emissions from portable devices (47 CFR § 2.1093) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density. According to the item 5.2 of KDB 680106 D01v03:

TCB Workshop and combine the actual situation of the EUT, For the portable wireless charger, RF exposure evaluation should be made from all sides(six sides) of EUT, with the 0cm to 20cm measured from the center of the probe to the edge of the EUT, in 2cm minimum increment.

E and H field strength measurements or numerical modelling may be used to demonstrate compliance.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
50 V.50	(A) Limits for C	Occupational/Controlled Exp	osure	1010 silv
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
300-1,500			f/300	6
1,500-100,000	1 1111 12 111	100 Day 2011	5	6
	(B) Limits for Gene	ral 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
300-1,500			f/1500	30
1,500-100,000	2		1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

Test Equipment List

-	te adaily mont and					
Test Equipment Manuf		Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
	Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11001	2024.3.29	2025.3.28

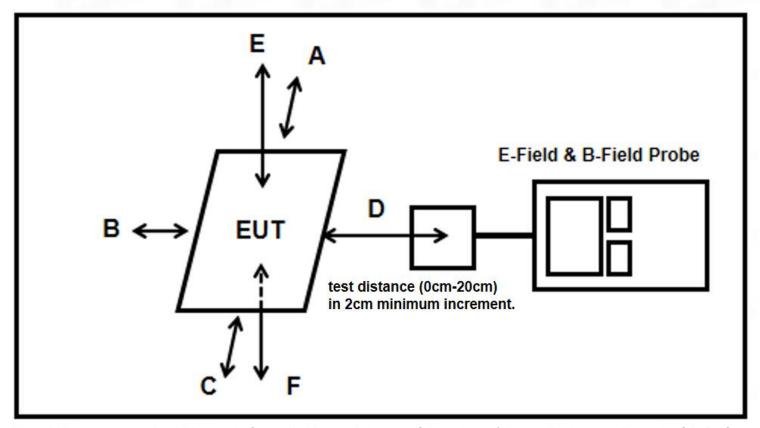
Test Mode

Test mode	Description	
	Mode 1: AC/DC Adapter + EUT + Wireless load (Full Load)	
	Mode 2: AC/DC Adapter + EUT + Wireless load (Half Load)	
ANT1	Mode 3: AC/DC Adapter + EUT + Wireless load (Null Load)	
	Mode 4: EUT + Wireless load (Full Load)	
	Mode 5: EUT + Wireless load (Half Load)	
	Mode 6: EUT + Wireless load (Null Load)	
No Loads	AC/DC Adapter + EUT(Null Load)	



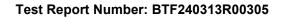


Test Setup



Note: Measurements should be made from all sides and the top of the primary/client pair, the test distance of A, B, C, D, E, F side is 0cm to 20cm.

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- 3) The EUT was measured according to the dictates of KDB 680106 D01 v03.





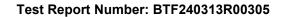
3.1 Assessment Result

Note: All the mode have been tested, and only the worst case of mode are in the report.

Magnetic Field Strength Measurement

Test Position	Distance (cm)	Measured Value(A/m)	Limit(A/m)
Тор	20	0.1507	1.63
Bottom	20	0.1032	1.63
Front	20	0.3219	1.63
Rear	20	0.9615	1.63
Left	20	0.9741	1.63
Right	20	1.1023	1.63

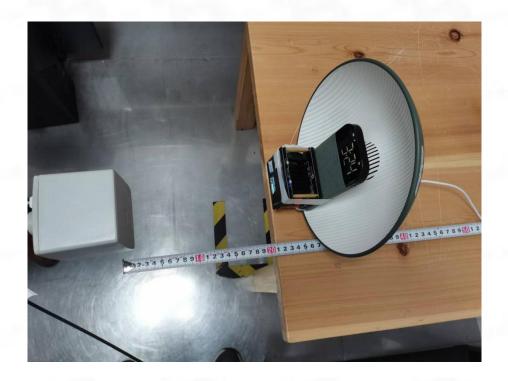
Test Position	Distance (cm)	Measured Value(V/m)	Limit(V/m)
Тор	20	1.6846	614
Bottom	20	0.2598	614
Front	20	0.0785	614
Rear	20	0.0539	614
Left	20	0.0541	614
Right	20	0.1241	614

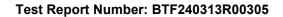




3.2 Test Set-up Photo



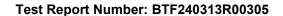




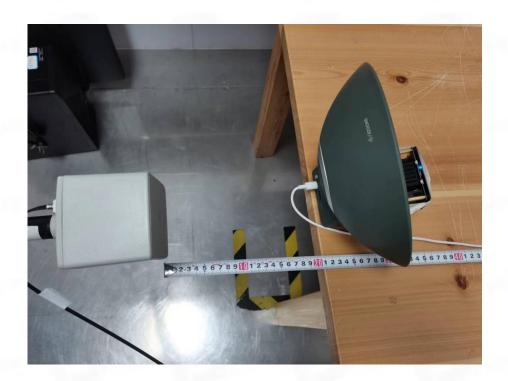


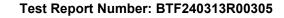
















BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

www.btf-lab.com

-- END OF REPORT--