

FCC RF Exposure Report No. ARSO00118/2

performed in accordance with

FCC Rules: Code of Federal Regulations (CFR) no. 47 Part 2.1091

PRODUCT	WIRELESS CHARGING TRANSMITTER	
MODEL(s) TESTED	Qi1001	
FCC ID	2AD9NQI1001	
TRADE MARK(s)	QINSIDE	

Tested by	Emanuela Franchina	
Approved by	Roberto Colombo [Laboratory manager]	

Revision Sheet

Release No.	Date	Revision Description		
Rev. 0	2015-01-09	First edition		
Rev. 1	2015-02-17	Grantee Code modified		



1. REFERENCE DOCUMENT

DOCUMENT		DATE	TITLE	
	47 CFR Part 2.1091	2014	Radiofrequency radiation exposure evaluation: mobile devices	
	47 CFR Part 1.1307(b)(1)	2014	Radiofrequency radiation exposure evaluation: mobile devicesActions that may have a significant environmental effor which Environmental Assessments (EAs) must be prepared	
	47 CFR Part 1.1310	2014 Radiofrequency radiation exposure limits		
	680106 D01	2013	RF Exposure Wireless Charging Apps v02	

3. REQUIREMENTS

POSSIBLE TEST CASE VERDICTS			
Test object does meet the requirement PASS			
Test object does not meet the requirement	FAIL		
Test case does not apply to the test object	N.A.		



4. TEST METHOD AND RESULTS

4.1 RF EXPOSURE

KDB 680106 D01(3)(3):

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 10 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 10 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.

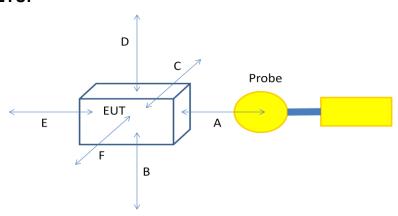
4.2 LIMITS

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/cm²)	Averaging Time E ² , H ² or S (minutes)
0.3 ~ 3.0	614	1.63	(100)*	30
3.0 ~ 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 ~ 100000	-	-	1.0	30

Note: f is the frequency in MHz. *Plane-wave equipment power density.

4.3 TEST SETUP





4.4 MEASUREMENT CONDITION

During the test the EUT was placed on a non-conductive table top inside a 3m semi anechoic chamber. Maximun E-field and B-field were measured at 10cm from each side of the EUT. The EUT was setup on the charging mode with the maximum load connected and then tested.

4.5 TEST RESULTS

Electric field strength measurement

Measured position	Distance (cm)	Measured value (V/m)	Limit (V/m)
Α	10	0.23	614
В 10		0.22	614
С	10	0.22	614
D	10	0.21	614
Е	10	0.23	614
F	10	0.22	614

Magnetic field strength measurement

Measured position	Distance	Measured value	Limit	
	(cm)	(A/m)	(A/m)	
А	10	0.012	1.63	
B 10		0.013	1.63	
C 10		0.011	1.63	
D	10	0.012	1.63	
Е	10	0.013	1.63	
F	10	0.012	1.63	

4.6 EQUIPMENT LIST

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
3m Semi- Anechoic Chambre	SIDT EUROPE	-1-	IMQ No. P-01709	1	
B-Field probe E-Field probe	Narda Safety Test Solution	EHP200	IMQ No. S-04953	12-2013	12-2015
Caliper	Mitutoyo	CD-15CPX	IMQ No. S-		



4.6 PHOTOGRAPHIC DOCUMENTATION

TEST SETUP

