

TEST REPORT RADIO FREQUENCY FOR WIRELESS POWER TRANSFER

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Standard/According to	KDB 680106 D01 Wireless Power Transfer v04		
Template version	V2.0		
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Address	Room 201, 302, 401 of A4 Building, Block A, Fangxing Science and Technology Park, No. 13 of Baonan Road, Longgang District, Shenzhen, China		
Trade Mark	N/A		
Product description	Magnetic Wireless Charger		
Model/Type reference	MQ07		
Ratings	Input: 5Vdc, 3A; 9Vdc, 3A; 12Vdc, 2.5A; 15Vdc, 2A Output: 25W Max		
FCC ID	2AFP2-MQ07		
Test result	Pass		

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2. If the report without tester's signature, auditor's signature, approver's signature and inspection seal, the report is invalid.
3. The test results are valid only for the tested samples.
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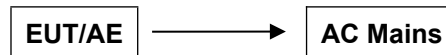
1. General test information

1.1. Description of EUT

Details of technical specification refer to the description in follows:

Test model number	MQ07
Model different	/
Frequency range (Hz)	115K-205K,360K
Modulation technique	ASK
Antenna type	Coil Antenna
Antenna gain	0 dBi
Temperature range (°C)	-20 ~ 80
Hardware version	V1.0
Software version	V1.0

Block diagram EUT configuration for test



1.2. Test modes

Mode	Test Status
1	AC Mains + Mobile phone charging mode for output 5W (111K-148K Hz)
2	AC Mains + Mobile phone charging mode for output 7.5W (111K-148KHz)
3	AC Mains + Mobile phone charging mode for output 10W (111K-148KHz)
4	AC Mains + Mobile phone charging mode for output 15W (360KHz)
5	AC Mains + Mobile phone charging mode for output 25W (360KHz)
6	AC Mains + standby mode

Remark:

The aforementioned testing modes were all conducted under battery Status $\leq 1\%$ (full load), battery Status $\approx 50\%$ (half load), and battery Status $\geq 99\%$ (no load) conditions.

After testing, it was found that the test data under battery Status $\leq 1\%$ (full load) condition is the worst-case.

The report reflecting only the worst-case test data.

When the equipment starts to working, after detecting the handshake protocol of the load, the equipment's handshake protocol starts from a low-power operating frequency and detects up to a high-power operating frequency, then initiates high-power output. Therefore, the phenomenon of both low-power operating frequencies and high-power operating frequencies coexisting occurs.

1.3. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range (°C)	15-35
Humidity range (%)	30-75
Pressure range (kPa)	85-105

1.4. Test environment conditions

Item	Equipment	Mfr/Brand	Model / Type	Series No.	Note
1	Load	Apple	Iphone 17	--	Wireless charging of phone: 5W, 7.5W, 15W, 25W
2	Load	Apple	AirPods	--	Wireless charging of earbuds: 2.5W, 5W
3	Load	Apple	Apple Watch Series 10	--	Wireless charging of watch: Max. 5W
4	Load	YBT	P V3.1-Qi2.2/MPP	--	Wireless charging of phone: 5W, 7.5W, 10W, 15W, 25W
5	Load	YBT	E V1.0	--	Wireless charging of earbuds: 2.5W, 3W, 5W
6	Load	YBT	W V2.04	--	Wireless charging of watch: Max. 5W
7	HUAWEI Super Charge	Huawei	HW-2005C02	--	Input: 100-240Vac, 50/60Hz, 2.4A Output: USB-C 5Vdc, 3A; 9Vdc, 3A; 10Vdc, 4A; 11Vdc, 6A; 12Vdc, 3A; 15Vdc, 3A; 20Vdc, 5A; USB-A 5Vdc, 2A; 10Vdc, 4A; 11Vdc, 6A; 20Vdc, 5A

Remark:

The test utilized HUAWEI Super Charge, and the input voltage of HUAWEI Super Charge was 120Vac, 60Hz.

2. RF exposure test

2.1 Measuring standard

KDB 680106 D01 Wireless Power Transfer v04

47 CFR Part 2.1091

2.2 Measurement uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	E-field	$\pm 0.97\%$
2	H-field	$\pm 0.74\%$
3	Temperature	$\pm 0.5^{\circ}\text{C}$
4	Humidity	$\pm 2\%$
Decision Rule		
☒ Uncertainty is not included		
☐ Uncertainty is includedS		

2.3 Test procedure

The RF exposure test was performed in anechoic chamber.

The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.

The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.

The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

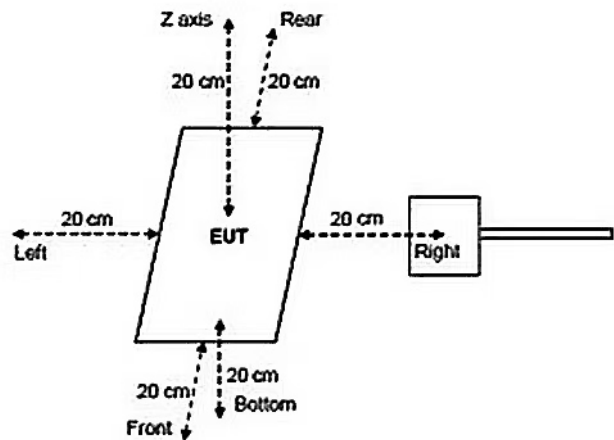
2.4 Limits

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(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).				

2.5 Test setup



2.6 Test equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D + E3D V2	3127	2026-09-08
2	Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV 2	3121	2026-09-08
3	Near-field Electric and Electric Field Sensor System	Narda	EHP-400	4772	2026-09-08

2.7 Test result

Test Mode	3	Remark	/			Result	PASS
H-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.02	0.03	0.02	0.03	0.03	0.02	0.815	1.63

Test Mode	5	Remark	/			Result	PASS
H-Filed Strength at 20 cm from the edges surrounding the EUT							
Top (A/m)	Bottom (A/m)	Left (A/m)	Right (A/m)	Front (A/m)	Rear (A/m)	50% Limits (A/m)	Limits (A/m)
0.02	0.03	0.03	0.02	0.04	0.03	0.815	1.63