



FCC ID: 2A92I-AST-WR254

RF Exposure Evaluation

1 Requirement

§1.1310: 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), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1091 of this chapter.

Table 1 to §1.1310(e)(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)
(i) Limits for Occupational/Controlled Exposure				
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
1500-100000			5	<6
(ii) 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
1500-100000			1.0	<30

f = frequency in MHz

* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

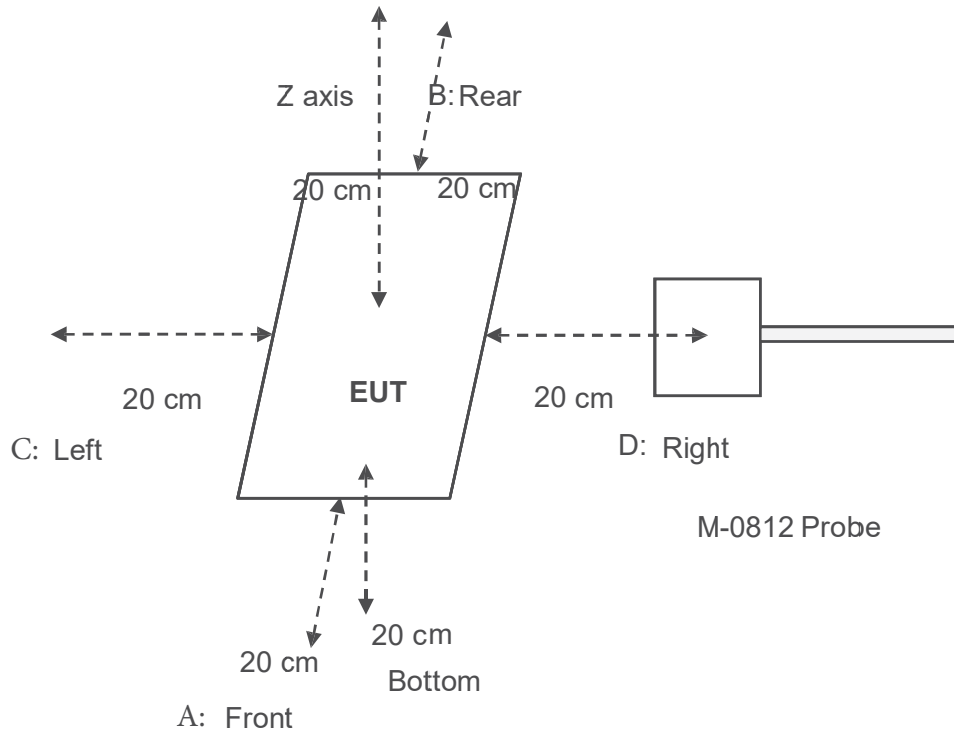
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2 Test setup



3 Test Procedures

- The RF exposure test was performed in anechoic chamber.
- E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").
- The highest emission level was recorded and compared with limit.
- The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.



4 Equipment Approval Considerations

Requirement	Device
1. The power transfer frequency is below 1 MHz	Yes. The operating frequencies are: 111.5 kHz – 205 kHz
2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes. The maximum output power is: 15W
3. A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)	Yes. The client device is placed directly in contact with the transmitter.
4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).	Yes. Mobile exposure conditions only.
5. The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.	Yes. See the test result in Clause 6
6. For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.	Yes. The EUT has a radiating structure and all scenarios have been tested.

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5 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
EMF Meter	NARDA	ELT-400	N-0356	Sep 27, 2024	Sep 26, 2025
EMF probe	NARDA	B-Field Probe	M-0812	Sep 27, 2024	Sep 26, 2025

6. Peripherals

Test Equipment	Manufacturer	Model No.	SN.
Mobile Phone	HUAWEI	GT3	--

7 Test Result

Test Result for Test setup A:

Note: Frequency Range 0.1115-0.205 (MHz); <5%, 50 %, > 90% load all have been tested, Only worse case Max load (>90%) is reported.

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Mode: Wireless Output (Phone:15W)

E-Filed Strength at (20 cm from edges A, B, C, D and Z axis) surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.1115-0.205	2.15	1.93	1.89	1.98	614

E-Filed Strength at 20 cm from the Z axis of the EUT (V/m)

Frequency Range (MHz)	Test Position Z	Limits (V/m)
0.1115-0.205	1.84	614

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.1115-0.205	0.62	0.43	0.41	0.38	1.63

H-Filed Strength at 20 cm from the Z axis of the EUT (A/m)

Frequency Range (MHz)	Test Position Z	Limits (A/m)
0.1115-0.205	0.33	1.63

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Mode: Wireless Output (AirPod: 3W)

E-Filed Strength at (20 cm from edges A, B, C, D and Z axis) surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.1115-0.205	1.26	1.12	1.03	1.15	614

E-Filed Strength at 20 cm from the Z axis of the EUT (V/m)

Frequency Range (MHz)	Test Position Z	Limits (V/m)
0.1115-0.205	0.98	614

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.1115-0.205	0.35	0.22	0.15	0.22	1.63

H-Filed Strength at 20 cm from the Z axis of the EUT (A/m)

Frequency Range (MHz)	Test Position Z	Limits (A/m)
0.1115-0.205	0.16	1.63

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Mode: Wireless Output (Watch: 2W)

E-Filed Strength at (20 cm from edges A, B, C, D and Z axis) surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.1115-0.205	1.03	0.89	0.85	0.92	614

E-Filed Strength at 20 cm from the Z axis of the EUT (V/m)

Frequency Range (MHz)	Test Position Z	Limits (V/m)
0.1115-0.205	0.79	614

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.1115-0.205	0.21	0.15	0.09	0.16	1.63

H-Filed Strength at 20 cm from the Z axis of the EUT (A/m)

Frequency Range (MHz)	Test Position Z	Limits (A/m)
0.1115-0.205	0.09	1.63

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Mode: Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W)

E-Filed Strength at (20 cm from edges A, B, C, D and Z axis) surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (V/m)
0.1115-0.205	2.69	2.51	2.43	2.58	614

E-Filed Strength at 20 cm from the Z axis of the EUT (V/m)

Frequency Range (MHz)	Test Position Z	Limits (V/m)
0.1115-0.205	2.46	614

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.1115-0.205	0.81	0.72	0.68	0.75	1.63

H-Filed Strength at 20 cm from the Z axis of the EUT (A/m)

Frequency Range (MHz)	Test Position Z	Limits (A/m)
0.1115-0.205	0.70	1.63

Remark: All wireless outputs were tested. In the report, only the worst case was recorded and Wireless Output (Phone:15W+AirPod: 3W+Watch: 2W) was the worst case

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8.0 Test Setup Photo



Test Data: August 06, 2024
Review Data: March 27, 2025

Test Engineer:

Andy Xing

Reviewer:

Perry Tang



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