

RF Exposure Report

FCC ID : 2AG0Z-M7K
Equipment : Charging Dock
Brand Name :  Meta
Model Name : M7K
Applicant : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Manufacturer : Meta Platforms Technologies, LLC
1 Hacker Way, Menlo Park, CA 94025, USA
Standard : FCC CFR 47 part 2.1091

The product was received on Feb. 26, 2024 and testing was started from Feb. 26, 2024 and completed on Mar. 07, 2024. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1091 and has been pass the FCC requirement.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA410219-01	Rev. 01	Initial issue of report	Mar. 14, 2024

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	Charging Dock
Brand Name	Meta
Model Name	M7K
FCC ID	2AG0Z-M7K
Frequency Range	126.423KHz ~ 128.977KHz
Modulation Type	ASK
HW Version	EVT
Remark: - The device supports two samples. For RF exposure, since the difference between sample 1 and sample 2 does not affect the RF performance, so selected sample 1 to perform the testing. - The client device supports five optional batteries, and the five batteries are same design but only for different build requirement. RF exposure only select either one client battery option to perform testing and shown in the report.	

2. RF Exposure Limit Introduction

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental 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 § 2.1093 of this chapter.

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 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
300-1,500			f/300	6
1,500-100,000			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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz

* = Plane-wave equivalent power density

(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. Limits for occupational/controlled exposure also apply in situations when a person is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure. The phrase fully aware in the context of applying these exposure limits means that an exposed person has received written and/or verbal information fully explaining the potential for RF exposure resulting from his or her employment. With the exception of transient persons, this phrase also means that an exposed person has received appropriate training regarding work practices relating to controlling or mitigating his or her exposure. Such training is not required for transient persons, but they must receive written and/or verbal information and notification (for example, using signs) concerning their exposure potential and appropriate means available to mitigate their exposure. The phrase exercise control means that an exposed person is allowed to and knows how to reduce or avoid exposure by administrative or engineering controls and work practices, such as use of personal protective equipment or time averaging of exposure.

(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.

3. KDB 680106 D01 EQUIPMENT APPROVAL CONSIDERATIONS

Requirement	Devices
(1) Power transfer frequency is less than 1 MHz.	Operating Frequency is less than 1MHz
(2) Output power from each primary coil is less than or equal to 15 watts.	The maximum power from each primary is 2.5Watts
(3) The system may consist of more than one source primary coil, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	The device supports two primary coils and provides charging for two compatible clients
(4) Client device is placed directly in contact with the transmitter.	The client device is placed directly in contact with the WPT source.
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	This is a desktop WPT source mobile condition is applied
(6) The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than MPE limit.	The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the device is less than MPE limit

4. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Freq. Range	Last Cal.	Due Date
Electric and Magnetic field Probe-Analyzer	Narda S.T.S / PMM	EHP 200AC	170WX80309	3KHz~30MHz	Nov. 03, 2023	Nov. 02, 2024

5. RF Exposure Evaluation

General Note:

1. This is desktop/tabletop use device, and support Wireless Power Consortium standard, the charging start when the client device direct connect WPT source.
2. Per KDB 680106 D01v04 , RF exposure evaluation field strengths anywhere at or beyond 20 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit. 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.
3. Therefore, the equipment under test was placed on a non-conductive table inside of shield room. Then scan was performed of device front, back, and each edges to found the worst value, detail setup photo refer to appendix A.
4. For WPT evaluation was performed with client with < 15% battery state, equal 50% and > 85% battery state will verify worst configuration found from 15% state.
5. The evaluated the field strength in the scenario which device-being-charged is removed suddenly, the test was performed for the worst test mode and worst position (measurement probe pointing towards the charging coil)

Position	Test Distance (mm)	Test Mode	Measured Hinc (A/m)	Measured Einc (V/m)	Hinc Limit (A/m)	Einc Limit (V/m)	Hinc Result	Einc Result
Top Surface	200	<15%	0.1794	0.623	1.63	614	Pass	Pass
Top Side	200	<15%	0.1908	0.5224	1.63	614	Pass	Pass
Bottom Side	200	<15%	0.1898	0.516	1.63	614	Pass	Pass
Left Side	200	<15%	0.1794	0.4846	1.63	614	Pass	Pass
Right Side	200	<15%	0.1849	0.6421	1.63	614	Pass	Pass
Top Side	200	=50%	0.182	0.462	1.63	614	Pass	Pass
Right Side	200	=50%	0.158	0.589	1.63	614	Pass	Pass
Top Side	200	>85%	0.17	0.509	1.63	614	Pass	Pass
Right Side	200	>85%	0.183	0.635	1.63	614	Pass	Pass

Conclusion:

The field strength limit refers to Part 1.1310 and the test result of exposure evaluation is compliance with MPE limit.