



# RF Exposure Evaluation Report

FCC ID : IHDT56YJ2  
EQUIPMENT : Mobile Cellular Phone  
BRAND NAME : Motorola  
APPLICANT : Motorola Mobility, LLC  
222 W Merchandise Mart Plaza, Suite  
1800, Chicago, IL 60654, United States  
STANDARD : FCC CFR 47 part 1, 1.1307(b) and 1.1310  
KDB 680106 D01v03

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Approved by: Cona Huang / Deputy Manager

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**Revision History**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA9D0635-01B	Rev. 01	Initial issue of report	Mar. 20, 2020



1. Description of Equipment Under Test (EUT)

Table with 2 columns: Feature Name and Specification. Rows include EUT Type (Mobile Cellular Phone), Brand Name (Motorola), FCC ID (IHDT56YJ2), Frequency Range (100KHz ~ 205 KHz), Modulation Type (ASK), Antenna Type (Wire), EUT Stage (Production Unit), and Date of Test (Mar. 03, 2020).

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.

Table with 5 columns: Frequency range (MHz), Electric field strength (V/m), Magnetic field strength (A/m), Power density (mW/cm²), and Averaging time (minutes). It is divided into two sections: (A) Limits for Occupational/Controlled Exposure and (B) Limits for General Population/Uncontrolled Exposure.

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. Test Mode

This device has been tested in the following charging conditions as below:

Table with 3 columns: Test Mode, Test Setup Configuration, Charging Current Condition. Rows include TM1, TM2, and TM3.

4. Measurement Equipment

Table with 7 columns: Instrument, Manufacturer, Model No., Serial No., Freq Rang, Last Cal., Due Date. Row includes Electric and Magnetic field Probe-Analyzey.

5. RF Exposure Evaluation

- 1. The device support Wireless Power Consortium (WPC or commonly referred to as Qi) standard EPP (Extended Power Profile) as a receiver...
2. According to 201910 TCBC workshop, for portable devices that do not physically attach to phone, desktop WPT testing guidance from FCC KDB 680106 D01v03.
3. The equipment under test was placed on a wooden desk inside of shield room.
4. Per KDB 680106 D01v03, RF exposure evaluation should be conducted assuming a user separation distance of 10 cm.

Table with 8 columns: Position (Distance 10cm), A, B, C, D, E, F, 50% of limit. Rows include TM1, TM2, and TM3.

Conclusion:

The field strength limit refers to Part 1.1310 and the test result of exposure evaluation is compliant with 50% of the MPE limit. (H-field: 0.815A/m).