



RF Exposure Evaluation Report

FCC ID : IHDT56AB1
EQUIPMENT : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2201-1
Applicant : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
STANDARD : FCC CFR 47 part 1, 1.1307(b) and 1.1310
KDB 680106 D01v03

We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in KDB 680106 D01v03 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Reviewed by: Nick Hu / Supervisor

Approved by: Kat Yin / Manager



Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



Table of Contents

1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2. ADMINISTRATION DATA	4
3. RF EXPOSURE LIMIT INTRODUCTION	5
4. TEST MODE	6
5. MEASUREMENT EQUIPMENT.....	6
6. RF EXPOSURE EVALUATION	6
Appendix A. Test Setup Photo	



Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA192317A	Rev. 01	Initial issue of report	Dec. 13, 2021



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), Model Name (XT2201-1), FCC ID (IHDT56AB1), Frequency Range (110KHz ~ 148 KHz), Modulation Type (ASK), HW Version (DVT2), SW Version (SSH32.79), EUT Stage (Identical Prototype), and Date of Test (Nov. 12, 2021).

Declaration of Conformity: The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. Comments and Explanations: The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

2. Administration Data

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Table with 4 columns: Test Firm, Test Site Location, and Test Site No. (with sub-columns for Sporton Site No., FCC Designation No., and FCC Test Firm Registration No.).



3. 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.



4. 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.

5. 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-Analyzer.

6. 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 202010 TCBC workshop, for portable devices that do not physically attach to phone, desktop WPT testing guidance from FCC KDB 680106 D01v03 is applied.
3. The equipment under test was placed on a wooden desk inside of shield room. The isotropic field probe was used to measure the field strength for 6 EUT surfaces...
4. Per KDB 680106 D01v03, RF exposure should be evaluation at 10 cm for all positions.

Table with 8 columns: position Distance 10cm, A, B, C, D, E, F, 50% of MPE Limit. Row 1 (TM1) has value 0.3885 in column C.

Conclusion:

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

Test Engineer : Henry Wang