RF Exposure Evaluation Report

FCC ID : IHDT56AE7

EQUIPMENT: Mobile Cellular Phone

Brand Name: Motorola

Model Name : XT2205-1, XT2205-2

Applicant : Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

Report No.: FA240834A

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 D01v03r01

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in KDB 680106 D01v03r01 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Approved by: Si Zhang

Si Thang

Sporton International Inc. (Kunshan)

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

Sporton International Inc. (Kunshan) TEL: 86-512-57900158

FAX: 86-512-57900958 FCC ID: IHDT56AE7 Page Number : 1 of 6

Report Issued Date : Jun. 06, 2022

Cert #5145.02

Report Version : Rev. 01

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
Δn	nendix A. Test Setup Photo	

Sporton International Inc. (Kunshan)

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: IHDT56AE7 Page Number : 2 of 6
Report Issued Date : Jun. 06, 2022
Report Version : Rev. 01

Report No.: FA240834A

Revision History

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REPORT NO. VERSION		DESCRIPTION	ISSUED DATE				
FA240834A	Rev. 01	Initial issue of report	Jun. 06, 2022				

Sporton International Inc. (Kunshan)

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: IHDT56AE7 Page Number : 3 of 6
Report Issued Date : Jun. 06, 2022
Report Version : Rev. 01

Report No.: FA240834A

1. Description of Equipment Under Test (EUT)

Product Feature & Specification						
EUT Type	EUT Type Mobile Cellular Phone					
Brand Name	Motorola					
Model Name XT2205-1, XT2205-2						
FCC ID IHDT56AE7						
Frequency Range	110 kHz ~ 148 kHz					
Moudlation Type	ASK					
HW Version	DVT2					
SW Version	S2ST32.48					
EUT Stage	Identical Prototype					
Date of Test	May 13, 2022					

Report No.: FA240834A

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

Testing Laboratory							
Test Firm	Sporton International Inc.	Sporton International Inc. (Kunshan)					
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China						
rest Site Location	TEL: +86-512-57900158 FAX: +86-512-57900958						
Test Site No.	Sporton Site No.	p. FCC Designation No. FCC Test Firm Regist					
rest site No.	ES02-KS	314309					

 Sporton International Inc. (Kunshan)
 Page Number
 : 4 of 6

 TEL: 86-512-57900158
 Report Issued Date
 : Jun. 06, 2022

 FAX: 86-512-57900958
 Report Version
 : Rev. 01

FCC ID: IHDT56AE7

SPORTON LAB. RF Exposure Evaluation Report

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.

Report No.: FA240834A

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 Expos	ure	()
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 Gene	eral Population/Uncontrolled Ex	posure	
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

- (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.

: 5 of 6 Sporton International Inc. (Kunshan) Page Number Report Issued Date: Jun. 06, 2022 TEL: 86-512-57900158 FAX: 86-512-57900958 Report Version : Rev. 01

FCC ID: IHDT56AE7

^{* =} Plane-wave equivalent power density

4. Test Mode

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

Test Mode	Test Setup Configuration	Charging Current Condition		
TM1	Test w/ Client Device installed	< 1% Battery status		
TM2	Test w/ Client Device installed	50% Battery status		
TM3	Test w/ Client Device installed	Near 100% Battery status		

Report No.: FA240834A

5. Measurement Equipment

Instrument	Manufacturer	Model No.	Serial No.	Freq Rang	Last Cal.	Due Date
Electric and Magnetic field Probe-Analyzer	Narda S.T.S / PMM	EHP 200AC	170WX80309	3KHz~30MHz	Oct ,26, 2021	Oct ,25, 2022

6. RF Exposure Evaluation

- The device support Wireless Power Consortium with a maximum power transfer to the phone of 5W. In addition, the
 device can be used in reverse, as a transmitter to another wireless charging receiver. In this case, up to 5W (BPP)
 can be transmitted to the external 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 D01v03r01 is applied.
- 3. There is no mechanical / magnetic connection mechanism between client and smart phone (this application) so charging is only supported for desktop/tabletop use.
- 4. 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. The detailed setup photo please refer to Appendix A.
- 5. Per KDB 680106 D01v03r01 and 202010 TCBC workshop, RF exposure should be evaluation at 15 cm surrounding the device and 20 cm away from the surface from all coils. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 1.63 A/m and aggregate H-field strengths from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Position	H-Field Measurement (A/m)						
(Distance)	A (15cm)	B (15cm)	C (15cm)	D (15cm)	E (20cm)	F (20cm)	Limit (A/m)
TM1	<mark>0.0366</mark>	0.0153	0.0155	0.0361	0.0175	0.0141	
TM2	0.0347	0.0222	0.0272	0.0286	0.0257	0.0212	0.815
TM3	0.0307	0.0163	0.0203	0.0247	0.0201	0.0179	

Conclusion:

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

Test Engineer: Light Wang

 Sporton International Inc. (Kunshan)
 Page Number
 : 6 of 6

 TEL: 86-512-57900158
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