

FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2305-1
FCC ID : IHDT56AL5
STANDARD : FCC 47 CFR Part 25
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown 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.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG322305-04	Rev. 01	Initial issue of report	Apr. 08, 2025

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2305-1
FCC ID	IHDT56AL5
HW Version	DVT2
SW Version	T2TT33.40
EUT Stage	Identical Prototype

1.4 Specification of Accessory

Specification of Accessory				
AC Adapter 1	Brand Name	Motorola (Chenyang)	Model Name	MC-681N
AC Adapter 2	Brand Name	Motorola (Acbel)	Model Name	MC-681N
Battery	Brand Name	Motorola (Amperex)	Model Name	PG44
USB Cable 1	Brand Name	Motorola (Saibao)	Model Name	SC18D86731
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	SC18D71644

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, Part 22H, Part 24E, Part 27 and Part 90R
- ♦ FCC KDB 273109 D02 Part 25 SCS and SMRS-Bands v01r01

Remark: All the test items were validated in accordance with the standards without any modification during the testing.

2 Supplemental Coverage from Space (SCS)

Under section § 25.109 (f) of the FCC rules Space and SCS earth stations providing SCS are subject to technical rules in parts 2, 22, 24 and 27 of this chapter based on the operating frequency band. Section § 25.204 (g) specifies that earth stations providing SCS pursuant to §§ 25.125 and 25.115 shall comply with the power requirements and out-of-band emission limits corresponding to device's operating in parts 22, 24, or 27 of this chapter (e.g., §§ 22.913, 24.232, 27.50), as required for their operating frequencies.

The table below identifies the SCS frequencies available for use and, for each band, the applicable FCC Part 22, 24, 27, and 90R technical requirements, the air interfaces supported by the device for SCS use and, in the final column, the reference to the test report containing the relevant test data showing compliance with the technical requirements.

The bands available for SCS and the bans supported by the devise in the scope of this report are:

	Frequency (MHz)		Rule Part	3GPP Band	Supported	Reference test report showing compliance with 25.204(g)
Band	DL	UL				
600MHz	617-652	663-698	27	71/n71	Yes	FG322305C FG322305D FG322305J FG322305L
700MHz	729-746	699-716	27	12/n12 17	Yes	
	746-756	777-787	27	13	Yes	
	758-768	788-798	90R	14/n14	Yes	
	805-806				No	
800MHz	869-894	824-849	22H	WCDMA 5 5/n5 26/n26	Yes	FG322305A FG322305B FG322305J
Broadband PCS	1930-1995	1850-1915	24E	WCDMA 2 2/n2 25/n25	Yes	
Note: Test reports are for reference model FCC ID IHDT56AL5. The data is in the test report FG322305A (3G), FG322305B & FG322305C & FG322305D (LTE) and FG322305J & FG322305L (5G NR).						

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