



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT1941-4, XT1941-1
FCC ID : IHDT56XK2
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

This is a data re-used report which is only valid together with the original test report. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures 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.

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

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APPENDIX A. REFERENCE REPORT



REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|--------------|---------|-------------------------|---------------|
| FR860402-01A | Rev. 01 | Initial issue of report | Jul. 30, 2018 |
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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 | XT1941-4, XT1941-1 |
| FCC ID | IHDT56XK2 |
| EUT supports Radios application | GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/ HSPA+(16QAM is not supported)/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 Bluetooth BR/EDR/LE |
| HW Version | DVT1B |
| SW Version | fastboot_deen_oem_userdebug_8.1.0_OPK28.26_f325_intcfg -test-keys_oem |
| EUT Stage | Identical Prototype |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| Tx/Rx Frequency Range | 2402 MHz ~ 2480 MHz |
| Number of Channels | 79 |
| Carrier Frequency of Each Channel | 2402+n*1 MHz; n=0~78 |
| Antenna Type / Gain | IFA Antenna with gain -6.0 dBi |
| Type of Modulation | Bluetooth BR (1Mbps) : GFSK Bluetooth EDR (2Mbps) : $\pi/4$ -DQPSK Bluetooth EDR (3Mbps) : 8-DPSK |

1.5 Modification of EUT

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



1.6 Re-use of Measured Data

1.6.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT1941-4, XT1941-1, FCC ID: IHDT56XK2) is electrically identical to the reference device (Model: XT1941-5, XT1941-3, FCC ID: IHDT56XK1) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

1.6.2 Difference Section

For details concerning the similarity with respect to component placement, mechanical/electrical design etc., please refer to the Product Equality Declaration.

The re-used RF data includes the following bands provided in Appendix A (Sporton RF Report No. FR860402A for the reference device Model: XT1941-5, XT1941-3, FCC ID: IHDT56XK1).

1.6.3 Reference detail Section:

| Equipment Class | Reference FCC ID | Folder Test | Report Title/Section |
|-----------------|------------------|--------------------|-------------------------|
| DSS (BR/EDR) | IHDT56XK1 | Part15C(FR860402A) | All sections applicable |
| DTS (BLE) | IHDT56XK1 | Part15C(FR860402B) | All sections applicable |
| DTS (WLAN) | IHDT56XK1 | Part15C(FR860402C) | All sections applicable |

**1.6.4 Spot Check Verification Data Section**

In order to confirm hardware similarity of the subject device with the reference device, spot check measurements were performed on the subject device for the radiated spurious emission, the test result were consistent with FCC ID: IHDT56XK1.

Assertions concerning the similarity of these devices are based on representations by the applicant. The applicant accepts full responsibility for the validity of the similarity claim, and for the determination that verification test data are sufficient to support it.

| Test Item | Mode | IHDT56XK1 Worst Result | IHDT56XK2 Worst Result | Difference (dB) |
|--|--------------------|---------------------------|---------------------------|-----------------|
| Radiated Spurious Emission (Band Edge. Harmonic) (dBuV/m) | BT2.0 _Tx_Ch78 | 27.7 | 25.45 | 2.25 |
| | BT4.2 _Tx_Ch39 | 32.62 | 26.45 | 6.17 |
| | 11g _Tx_Ch11 | 50.97 | 47.62 | 3.35 |
| | 11a _Tx_Ch36 | 50.72 | 49.56 | 1.16 |
| | 11a(n40) _Tx_Ch151 | 35.18 | 33.35 | 1.83 |
| | NFC | 33.20 | 31.96 | 1.24 |



Appendix A. Reference Report

Please refer to Sporton report number FR860402A which is issued separately.