FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2045-2

FCC ID : IHDT56YK3

STANDARD : 47 CFR Part 15 Subpart C §15.247
CLASSIFICATION : (DSS) Spread Spectrum Transmitter

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.

Reviewed by: Jason Jia / Supervisor

JasonJia

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

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

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56YK3 Page Number : 1 of 6
Report Issued Date : Dec. 23, 2019
Report Version : Rev. 01

Cert #5145.02

Report No.: FR9O2103-01A

Report Template No.: BU5-FR15CBT Version 2.0

TABLE OF CONTENTS

| 1 | GENERAL DESCRIPTION | | 4 |
|---|---------------------|-----------------------------------------------|---|
| - | | | |
| | 1.1 | Applicant | 4 |
| | 1.2 | Manufacturer | 4 |
| | 1.3 | Product Feature of Equipment Under Test | 4 |
| | 1.4 | Product Specification of Equipment Under Test | 4 |
| | 1.5 | Modification of EUT | 4 |
| | 1.6 | Re-use of Measured Data | 5 |

APPENDIX A. REFERENCE REPORT

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56YK3 Page Number : 2 of 6
Report Issued Date : Dec. 23, 2019
Report Version : Rev. 01

Report Template No.: BU5-FR15CBT Version 2.0

Report No. : FR9O2103-01A

REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|--------------|---------|-------------------------|---------------|
| FR9O2103-01A | Rev. 01 | Initial issue of report | Dec. 23, 2019 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56YK3 Page Number : 3 of 6
Report Issued Date : Dec. 23, 2019
Report Version : Rev. 01

Report No. : FR9O2103-01A

Report Template No.: BU5-FR15CBT Version 2.0

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 | XT2045-2 | | |
| FCC ID | IHDT56YK3 | | |
| EUT supports Radios application | GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE GNSS/FM Receiver | | |
| HW Version | DVT2 | | |
| SW Version | QPJ30.63 | | |
| EUT Stage | Identical Prototype | | |

Report No.: FR9O2103-01A

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 | PIFA Antenna type with gain -5.00 dBi | | |
| | Bluetooth BR (1Mbps) : GFSK | | |
| Type of Modulation | Bluetooth EDR (2Mbps) : π /4-DQPSK | | |
| | Bluetooth EDR (3Mbps) : 8-DPSK | | |

1.5 Modification of EUT

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

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

 TEL: +86-512-57900158
 Report Issued Date
 : Dec. 23, 2019

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

FCC ID : IHDT56YK3 Report Template No.: BU5-FR15CBT Version 2.0

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: XT2045-2, FCC ID: IHDT56YK3) is electrically identical to the reference device (Model: XT2045-1, FCC ID: IHDT56YK2) for the portions of the circuitry corresponding to the data being re-used, as treated by KDB Publication 484596 D01.

Report No.: FR9O2103-01A

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. FR9O2103A for the reference device Model: XT2045-1, FCC ID: IHDT56YK2).

1.6.3 Reference detail Section:

| Equipment Class | Reference FCC ID | Folder Test | Report Title/Section |
|-----------------|------------------|--------------------|-------------------------|
| DSS (BR/EDR) | IHDT56YK2 | Part15C(FR9O2103A) | All sections applicable |
| DTS (BLE) | IHDT56YK2 | Part15C(FR9O2103B) | All sections applicable |
| DTS (WLAN) | IHDT56YK2 | Part15C(FR9O2103C) | All sections applicable |

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

 TEL: +86-512-57900158
 Report Issued Date
 : Dec. 23, 2019

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

FCC ID : IHDT56YK3 Report Template No.: BU5-FR15CBT Version 2.0

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 following test items, the test result were consistent with FCC ID: IHDT56YK2.

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 | IHDT56YK2 Worst Result | IHDT56YK3 Worst Result | Difference (dB) |
|-------------------|------------------|---------------------------|---------------------------|-----------------|
| | BT (BR/EDR) | 7.71 | 7.42 | 0.29 |
| Peak Conducted | BT (LE) | 2.52 | 2.36 | 0.16 |
| Power | 11b, 2.4GHz | 21.29 | 20.68 | 0.61 |
| (dBm) | 11g, 2.4GHz | 21.59 | 20.19 | 1.40 |
| (| 11n HT20, 2,4GHz | 21.14 | 19.63 | 1.51 |

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56YK3 Page Number : 6 of 6
Report Issued Date : Dec. 23, 2019
Report Version : Rev. 01

Report No.: FR9O2103-01A

Report Template No.: BU5-FR15CBT Version 2.0

Appendix A. Reference Report

Please refer to Sporton report number FR9O2103A which is issued separately.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56YK3 Page Number : A1 of A1
Report Issued Date : Dec. 23, 2019
Report Version : Rev. 01

Report Template No.: BU5-FR15CWL Version 2.0

Report No.: FR9O2103-01A