

RF Exposure Evaluation Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : moto tag
BRAND NAME : Motorola
MODEL NAME : XT2561-1
FCC ID : IHDT6AB8
STANDARD : 47 CFR PART 2.1093
FCC KDB 447498 D01 v06

The product evaluation date was started from Oct. 29, 2025 and completed on Oct. 29, 2025. We, Sporton International Inc. (Shenzhen), would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093 and FCC KDB 447498 D01 v06, and pass the limit. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Hank Huang



Approved by: Hank Huang

Sporton International Inc. (Shenzhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA580714	Rev. 01	Initial issue of report	Nov. 06, 2025



1. Administration Data

1.1. Testing Laboratory

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Testing Laboratory			
Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	SAR01-SZ	CN1256	421272

Applicant	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

Manufacturer	
Company Name	Motorola Mobility LLC
Address	222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

2. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	moto tag
Brand Name	Motorola
Model Name	XT2561-1
FCC ID	IHDT6AB8
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz Bluetooth LE CS GFSK: 2404 MHz ~ 2478 MHz Bluetooth LE CS ASK: 2404 MHz ~ 2478 MHz UWB: 6489.6MHz & 7987.2MHz
Mode	Bluetooth LE/ASK/GFSK UWB: BPM-BPSK
Antenna Type	Bluetooth: Monopole Antenna UWB: PIFA Antenna
Antenna Gain	Bluetooth: -0.70 dBi UWB: 1.0 dBi for 6489.6MHz and 1.0 dBi for 7987.2MHz
HW Version	DVT2
SW Version	1.12.0
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. - The UWB output power is less than 1mW and exempt from power density testing. - The device supports frequency range of Bluetooth LE data rate 2Mbps and BLE channel sounding is 2404MHz ~ 2478MHz. - There are two samples, the differences could be referred to the Product Equality Declaration which is exhibit separately, and the differences do not affect the MPE analysis results.	

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.
- The maximum RF output tune up power, antenna gain also the safe distance used for evaluate RF exposure were declared by manufacturer.

3. Maximum RF Tune Up power among production units

<Bluetooth>

Mode	Maximum Average Power (dBm)
Bluetooth LE /ASK/GFSK	9.7

4. RF Exposure Evaluation

Mode	Maximum Average Power (dBm)
Bluetooth LE /ASK/GFSK	9.7

Note:

- Per KDB 447498 D01v06 the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - f(GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

Bluetooth Max Power (dBm)	Separation Distance (mm)	Frequency (GHz)	exclusion thresholds
9.7	< 5	2.48	2.9

- According to the EUT characteristic, UWB and Bluetooth can transmit simultaneously. The simultaneous transmission analysis, considering UWB power is very smaller and no risk, the contribution of UWB to the total TER can be neglected.

Conclusion:

Per KDB 447498 D01v06, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 2.9 which is ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g SAR, 1-g SAR and extremity SAR testing is not required, and complied with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for 1g SAR) specified in FCC 47 CFR part 2 (2.1093).

-----THE END-----