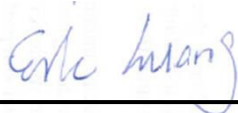


# RF Exposure Evaluation Report

**APPLICANT** : Zebra Technologies Corporation  
**EQUIPMENT** : Digital Scanner  
**BRAND NAME** : Zebra  
**MODEL NAME** : DS3678  
**FCC ID** : UZ7DS3678  
**STANDARD** : 47 CFR Part 2.1093  
FCC KDB 447498 D01 v06

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)





### 1. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

Applicant	
Company Name	Zebra Technologies Corporation
Address	1 Zebra Plaza, Holtsville, NY 11742-1300, USA

Manufacturer	
Company Name	Zebra Technologies Corporation
Address	1 Zebra Plaza, Holtsville, NY 11742-1300, USA

### 2. General Information

#### 2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	Digital Scanner
Brand Name	Zebra
Model Name	DS3678
FCC ID	UZ7DS3678
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	· Bluetooth EDR/LE
Antenna Type	SMD Antenna
HW Version	Rev A
SW Version	Rev A
MFD SR	19MAR16
MFD HD	21MAR16
MFD HP	08MAR16
DUT Stage	Identical Prototype

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

**3. Maximum RF output power among production units**

Mode / Band	Average Power (dBm)			
	EDR			LE (GFSK)
	1Mbps	2Mbps	3Mbps	
Bluetooth	6.5	6.5	6.5	6.5

**4. RF Exposure Evaluation**

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
6.5	4.00	5	2.48	1.26

**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 ≤ 7.5 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

**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 1.26 which is ≤ 3.0, SAR testing is not required.