RF Exposure Evaluation Report

FCC ID : UZ7DS8178A

Equipment : Digital Scanner

Brand Name : Zebra

Model Name : DS8178A

Applicant : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Manufacturer : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Standard : 47 CFR Part 2.1093

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part 2.1093 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full

Approved by: Cona Huang / Deputy Manager





Report No. : FA320318-01

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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Report Issued Date : Mar. 22, 2023

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA320318-01	Rev. 01	Initial issue of report	Mar. 22, 2023

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1. General Information

1.1 <u>Description of Device Under Test (DUT)</u>

Product Feature & Specification						
DUT Type	Digital Scanner					
Brand Name	Zebra					
Model Name	DS8178A					
FCC ID	UZ7DS8178A					
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz					
Mode	Bluetooth LE					
HW Version	DV					
MFD	12DEC22					
DUT Stage	Identical Prototype					

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2. Maximum RF output power among production units

Mode	Average Power (dBm)	
	LE	
	1Mbps	
Bluetooth	4.78	

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3. RF Exposure Evaluation

Bluetooth	mW	Separation	Frequency	Exclusion
Max Power (dBm)		Distance (mm)	(GHz)	Thresholds
4.78	3.01	5	2.48	0.95

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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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 0.95 which is <= 3, SAR testing is not required.

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