

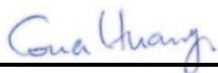
RF EXPOSURE EVALUATION REPORT

FCC ID : UZ7RE40
Equipment : RFID Module
Brand Name : ZEBRA
Model Name : RE40
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL
60069 USA
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 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



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Table of Contents

1. DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
2. MAXIMUM RF OUTPUT POWER AMONG PRODUCTION UNITS	4
3. RF EXPOSURE LIMIT INTRODUCTION	5
4. RADIO FREQUENCY RADIATION EXPOSURE EVALUATION	6



History of this test report

Report No.	Version	Description	Issued Date
FA5O1526-02	Rev. 01	Initial issue of report	Apr. 13, 2026

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	RFID Module
Brand Name	ZEBRA
Model Name	RE40
FCC ID	UZ7RE40
Wireless Technology and Frequency Range	RFID: 902 MHz ~ 928 MHz
Mode	ASK
HW Version	V21
SW Version	CAAFBS00-001-R07BN

Host Information	
Brand Name	Zebra
Model Name	ZD621
MFD	13JAN26
Integrated WWAN Module	Brand Name: Quectel Model Name: EC25-AF FCC ID: XMR201808EC25AF
Integrated BT Module	Brand Name: Zebra Model Name: EYSNSNZWWZ1 FCC ID: I28-EYSNSNZWWZ1

Reviewed by: Jason Wang**Report Producer: Daisy Peng****2. Maximum RF output power among production units**

Band		Maximum Power (dBm)
RFID	900	27.0



3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

**4. Radio Frequency Radiation Exposure Evaluation**

Band	Maximum Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
RFID 900MHz	27.00	-28.00	-1.0	0.79	0.0001	0.601	0.0002

RFID Power Density / Limit Ratio	BT Ratio	Summed Ratio of RFID+BT
0.0002	0.00013	0.0033

Note:

1. The WWAN antenna is away RFID/BT ant 20cm, Sim-Tx consideration is not necessary.
2. The BT max Ratio was according to RF report no.: R20091414-247, FCC ID: I28-EYSNSNZWWZ1
3. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)]
4. Based on the EIRP performance listed in the table above, the aggregated (power density/limit) is smaller than 1, and MPE of the 2 collocated transmitters is compliant.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.