

RF Exposure Report

(Part 0: SAR Char Evaluation)

APPLICANT : Zebra Technologies Corporation
EQUIPMENT : Enterprise Tablet
BRAND NAME : Zebra
MODEL NAME : ET4015B
FCC ID : UZ7ET4015B
STANDARD : FCC 47 CFR PART 2 (2.1093)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB 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 Inc. (Kunshan), the test report shall not be reproduced except in full.



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History of this test report

Report No.	Version	Description	Issued Date
FA550911-07C	01	Initial issue of report	Mar. 06, 2026

1. Introduction

The RF exposure limit is defined based on time-averaged RF exposure. The product implements Qualcomm Smart Transmit feature which controls the instantaneous transmitting power for WLAN/BT/RFID transmitter to ensure the product in compliance with RF exposure limit over a defined time window. To control and manage transmitting power in real time and to ensure at all times the time-averaged RF exposure is compliant to the regulation requirement. Smart Transmit cannot operate without SAR characterization at the device level, beforehand.

This report describes the procedures for the SAR char generation, and the parameters obtained from SAR characterization (referred to as SAR char, respectively) will be used as input for Smart Transmit. Both SAR char will be entered via the Embedded File System (EFS) version 22.1 to enable the Smart Transmit GEN1 Feature.

Terminologies in this report

P_{limit}	The time-averaged RF power which corresponds to SAR_design_target.
P_{max}	Maximum target power level
SAR_design_target:	The design target for SAR compliance. It should be less than regulatory power density limit to account for all device design related uncertainty.
SAR char	P_{limit} for all the technologies/bands for all applicable DSI



2. Product Description

Product Feature & Specification	
Equipment Name	Enterprise Tablet
Brand Name	Zebra
Model Name	ET4015B
FCC ID	UZ7ET4015B
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz RFID: 902.75 MHz ~ 927.25 MHz
Mode	WLAN 2.4GHz 802.11b/g/n HT20 WLAN 2.4GHz 802.11ac/ax VHT20/HE20 WLAN 2.4GHz 802.11be EHT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax/be HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE /CS ASK/GFSK NFC: ASK RFID: ASK

3. SAR Characterization

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at WLAN/BT/RFID bands. It will then be used as input for Smart Transmit to control and manage RF exposure for WLAN/BT/RFID bands.

3.1 SAR design target and uncertainty

SAR design Target :

Exposure Condition	Measure Distance	SAR (W/kg)	
		WLAN/BT	RFID
Body (1g)	0 mm	0.85	0.95

Uncertainty:

Item		Uncertainty dB (k=2)
Total uncertainty	RFID	1.0
	WLAN/BT	1.5

To account for total uncertainty, SAR_design_target should be determined as:

$$SAR_{design_target} < SAR_{regulatory_limit} \times 10^{\frac{-total\ uncertainty}{10}}$$

3.2 SAR Char Table

SAR char must be generated to cover all radio configurations and usage scenarios that the wireless device supports for operating at WLAN/BT/RFID bands. It will then be used as input for Smart Transmit to control and manage RF exposure for WLAN/BT/RFID bands.

<P_{limit} for supported technologies and bands (P_{limit} in EFS file)>

Band	Antenna	Sensor on DSI3	Sensor off DSI0	Pmax*
WLAN2.4GHz	Ant 6	16.5	22.0	22.0
WLAN2.4GHz	Ant 7	15.0	21.0	21.0
WLAN2.4GHz	Ant 6+7	15.0	21.0	24.5
Bluetooth	Ant 6	16.0	16.0	7.7
Bluetooth	Ant 7	17.1	17.1	7.7
WLAN5.2GHz	Ant 6	11.5	18.0	18.0
WLAN5.2GHz	Ant 7	12.5	18.0	18.0
WLAN5.2GHz	Ant 6+7	11.5	18.0	21.0
WLAN5.3GHz	Ant 6	11.0	18.5	18.5
WLAN5.3GHz	Ant 7	12.0	18.0	18.0
WLAN5.3GHz	Ant 6+7	11.0	18.0	21.0
WLAN5.5GHz	Ant 6	10.0	18.5	18.5
WLAN5.5GHz	Ant 7	10.0	18.0	18.0
WLAN5.5GHz	Ant 6+7	10.0	18.0	21.0
WLAN5.8GHz	Ant 6	14.0	18.0	18.0
WLAN5.8GHz	Ant 7	12.0	18.0	18.0
WLAN5.8GHz	Ant 6+7	12.0	18.0	21.0
WLAN6E B5	Ant 6	11.0	18.5	18.5
WLAN6E B5	Ant 7	11.0	18.5	18.5

WLAN6E B5	Ant 6+7	11.0	18.5	21.5
WLAN6E B6	Ant 6	10.5	16.5	16.5
WLAN6E B6	Ant 7	10.5	16.5	17.5
WLAN6E B6	Ant 6+7	10.5	16.5	20.0
WLAN6E B7	Ant 6	10.0	18.0	18.5
WLAN6E B7	Ant 7	10.5	18.0	18.0
WLAN6E B7	Ant 6+7	10.0	18.0	21.5
WLAN6E B8	Ant 6	10.0	16.0	16.0
WLAN6E B8	Ant 7	11.0	16.0	16.5
WLAN6E B8	Ant 6+7	10.0	16.0	19.0
WLAN6E B5 VLP	Ant 6	11.0	18.5	8.5
WLAN6E B5 VLP	Ant 7	11.0	18.5	8.5
WLAN6E B5 VLP	Ant 6+7	11.0	18.5	11.5
WLAN6E B6 VLP	Ant 6	10.5	16.5	9.0
WLAN6E B6 VLP	Ant 7	10.5	16.5	10.0
WLAN6E B6 VLP	Ant 6+7	10.5	16.5	12.5
WLAN6E B7 VLP	Ant 6	10.0	18.0	9.0
WLAN6E B7 VLP	Ant 7	10.5	18.0	9.0
WLAN6E B7 VLP	Ant 6+7	10.0	18.0	12.0
WLAN6E B8 VLP	Ant 6	10.0	16.0	9.5
WLAN6E B8 VLP	Ant 7	11.0	16.0	10.0
WLAN6E B8 VLP	Ant 6+7	10.0	16.0	12.5
RFID	Ant 8	20.0	25.0	25.0

Note: 1) *P_{max} is used for RF tune up procedure. The maximum allowed output power is equal to P_{max} +total uncertainty.

2) All P_{limit} power levels entered in the Table correspond to average power levels after accounting for duty cycle (for e.g., RFID/WLAN/BT).

3) The max allowed output power is the P_{limit} + Total uncertainty, and if P_{limit} is higher than P_{max}, the device output power will be P_{max} instead.

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