FCC Part 96.47 TEST REPORT

FCC ID	:	**UZ7MC345B**
Equipment	:	**Mobile Computer**
Brand Name	:	**ZEBRA**
Model Name	:	**MC345B**
Applicant	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Manufacturer	:	**Zebra Technologies Corporation** **3 Overlook Point, Lincolnshire, IL 60069 USA**
Standard	:	**FCC Part 96.47**
RF Interface	:	**NR n78**

The product was received on Oct. 25, 2024, and testing was performed from Nov. 21, 2024 to Nov. 21, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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 from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

Sporton International Inc. Wensan Laboratory
No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C)

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History of this test report

Report No.	Version	Description	Issue Date
FG4O2225E	01	Initial issue of report	Feb. 13, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3	96.47	End User Device additional requirement	Pass	-

Conformity Assessment Condition:
The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng

Report Producer: Lucy Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Computer
Brand Name	ZEBRA
Model Name	MC345B
FCC ID	UZ7MC345B
Sample 1	SKU 12 (Brick+SE5800+29 Keypad)
Sample 2	SKU 4 (Brick+SE5500+47 Keypad)
Sample 3	SKU 1 (Gun+SE4770+38 Keypad)
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	EV
SW Version	14-10-10.00-UG-U00-PRD-NEM-04
MFD	14SEP24
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer.
2. All the tests performed with Sample 1 and Battery 1 Standard Battery (7000mAh).

Stage	**MC34 WWAN SKU list**						
Configuration	**SKU1**	**SKU2**	**SKU4**	**SKU5**	**SKU7**	**SKU8**	**SKU12**
WW/WL	WWAN	WWAN	WWAN	WWAN	WWAN	WWAN	WWAN
Form Factor	FA	FA	FA	FA	FA	FA	FA
SKU	Prem	Prem	Prem	Prem+	Prem+	Prem+	Prem+
Brick / Gun	Gun	Gun	Brick	Gun	Gun	Brick	Brick
DDR size	6GB	6GB	6GB	6GB	6GB	6GB	6GB
UFS size	64GB	64GB	64GB	128GB	128GB	128GB	128GB
Scan engine	SE4770	SE5800	SE5500	SE5500	SE5800	SE5800	SE5800
FF Camera	None	None	None	5MP (PN)	5MP (PN)	5MP (PN)	5MP (PN)
RF Camera				13MP (PN)	13MP (PN)	13MP (PN)	13MP (PN)
Keypad	38	38	47	38	47	38	29
Battery	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh	7000mAh
Region (ROW or NA)	RW	RW	RW	RW	RW	RW	RW

Specification of Accessories				
Adapter 1 USB Wall Charger	**Brand Name**	Zebra	**Model Number**	PWR-WUA5V12W0US
Battery 1 Standard Battery (7000mAh)	**Brand Name**	Zebra	**Model Number**	BT-000375
Battery 2 Standard Battery (7000mAh)	**Brand Name**	Zebra	**Model Number**	BT-000375
Battery 3 BLE Battery (7000mAh)	**Brand Name**	Zebra	**Model Number**	BT-000444
Battery 4 BLE Battery (7000mAh)	**Brand Name**	Zebra	**Model Number**	BT-000375B
Type C USB Cable	**Brand Name**	Zebra	**Model Number**	CBL-TC5X-USBC2A-01
USB Cable Cup	**Brand Name**	Zebra	**Model Number**	CBL-MC33-USBCHG-01
Soft Holster for Gun Type	**Brand Name**	Zebra	**Model Number**	SG-MC3021212-01R
Soft Holster for Brick Type	**Brand Name**	Zebra	**Model Number**	SG-MC3X-SHLSTB-01
USB-C PTT Headset	**Brand Name**	Zebra	**Model Number**	HDST-USBC-PTT1-01
USB-C to 3.5mm adapter	**Brand Name**	Zebra	**Model Number**	ADP-USBC-35MM1-01
3.5mm To Quick Disconnect (QD) Adapter Cable	**Brand Name**	Zebra	**Model Number**	ADP-35M-QDCBL1-01
3.5mm PTT Headset	**Brand Name**	Zebra	**Model Number**	HDST-35MM-PTT1-01
3.5mm PTT HS2100 Headset	**Brand Name**	Zebra	**Model Number**	HS2100
Quick Disconnect (QD) Cable	**Brand Name**	Zebra	**Model Number**	CBL-HS2100-QDC1-01

Supported Unit Used in Test Configuration and System				
Bluetooth Headset	**Brand Name**	Zebra	**Model Number**	HS3100

1.2 Modification of EUT

No modifications are made to the EUT during the entire test sessions.

1.3 Testing Laboratory

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	TH05-HY
Test Engineer	Alston Tsai
Temperature	23 ~ 24 ℃
Relative Humidity	45 ~ 51 %

FCC designation No.: TW3786

1.4 Applicable Standards

- FCC Part 96.47
- FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification

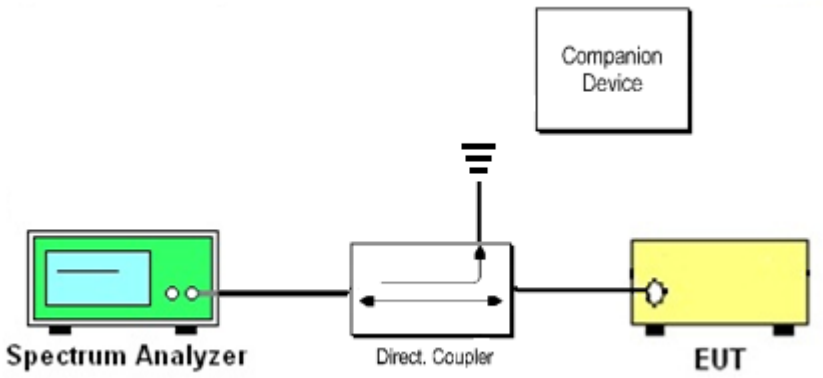
Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.

2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Connection Diagram of Test System



The companion device is a certified NR CBSD (FCC ID: PIDAS2900)

3 End User Device additional requirement

3.1 Test Requirement

FCC Part 96.47

(a) End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

(1) An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

3.2 Test Procedure

The following procedure is following in accordance with WINNF-TS-0122-V1.0.2 CBRS CBSD Test Specification, using the certified Airspan NR CBSD (FCC ID: PIDAS2900) as companion device to present compliance with Part 96.47 requirement for End User Device (EUD):

1. Configure SAS granted CBSD to operate at frequency 3550-3600 MHz and power level 10 dBm/MHz
2. Enable CBSD service from Airspan ACP management
3. Check EUD Tx Frequency and power
4. Disable CBSD service from Airspan ACP management
    a. Check if EUD stops transmission within 10 seconds.

5. Configure SAS granted CBSD to operate at frequency 3600-3700 MHz and power level 20 dBm/MHz
6. Enable CBSD service from Airspan ACP management
7. Check EUD Tx Frequency and power
8. Disable CBSD service from Airspan ACP management
    a. Check if EUD stops transmission within 10 seconds.

3.3 Test Result

[Step 1] Configure SAS granted CBSD to operate at frequency 3550-3600 MHz and power level 10 dBm/MHz
[Step 3] Check EUD Tx Frequency and power

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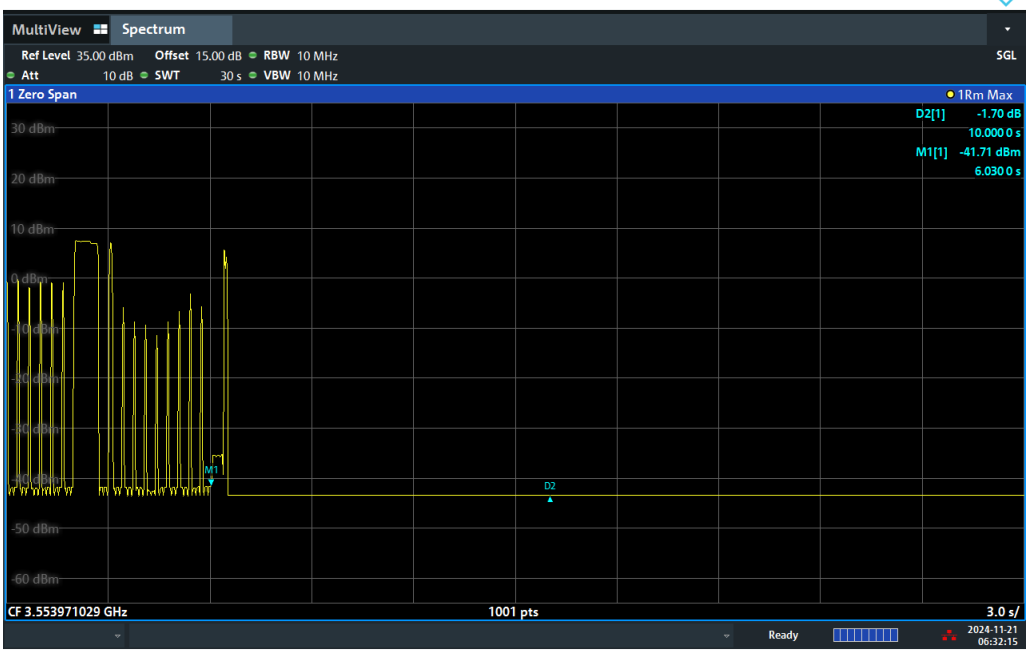
[Step 4.a.] EUD stops transmission within 10 seconds right after receiving instructions from its associated CBSD.



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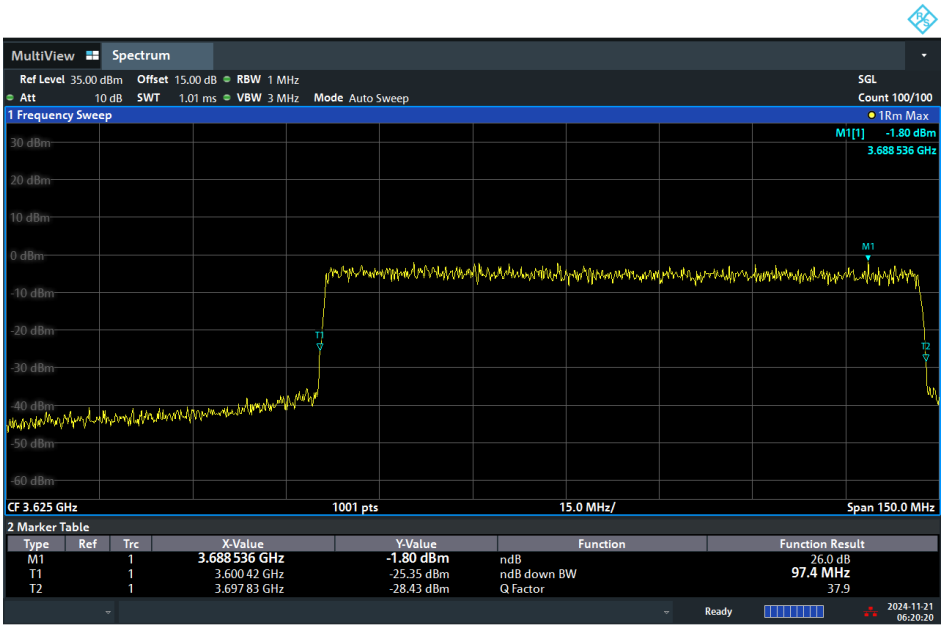
[Step 5] Configure SAS granted CBSD to operate at frequency 3600-3700 MHz & power level 20 dBm/MHz
[Step 7] Check EUD Tx Frequency and power



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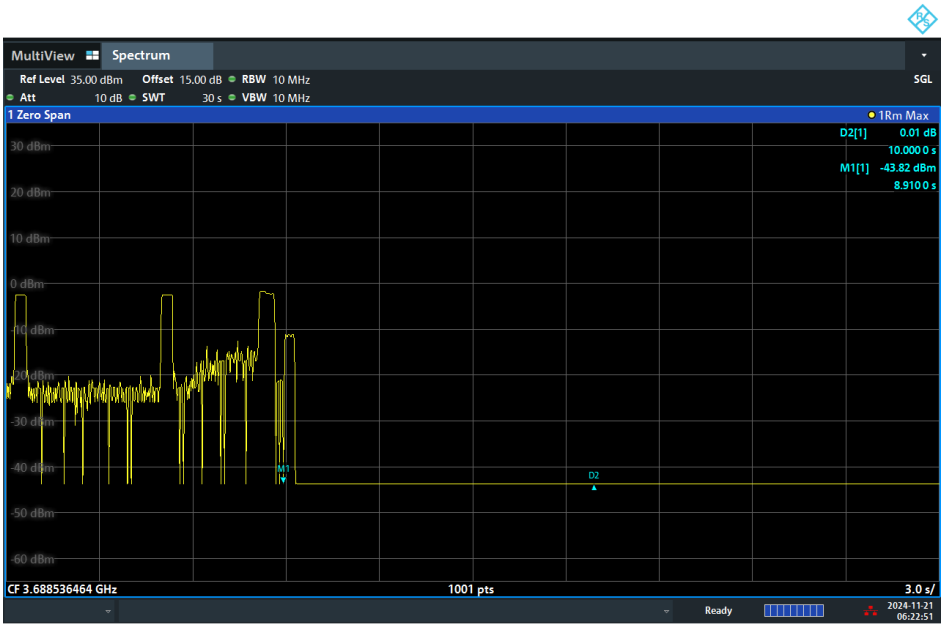
[Step 8.a.] After changing the frequency and power level, The EUD discontinues operating, changes frequencies, or changes its operational power level within 10 seconds right after receiving instructions from its associated CBSD. Test result is a PASS.



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4 Measuring Equipment List

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV3044	101433	10Hz~44GHz	Nov. 12, 2024	Nov. 21, 2024	Nov. 11, 2025	Conducted (TH05-HY)