



SPOT CHECK EVALUATION

FCC ID : UZ7TC78B1
Equipment : Touch computer
Brand Name : Zebra
Model Name : TC78B1
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart C §15.247
FCC Part 15 Subpart E §15.407

The product was received on Feb. 21, 2022 and testing was performed from Mar. 22, 2022 to Apr. 01, 2022. 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 spot check report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

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History of this test report

Version	Description	Issued Date
01	Initial issue of report	Oct. 24, 2022



1. Introduction Section

The FCC ID: UZ7TC78A1 (original model) and FCC ID: UZ7TC78B1 (variant model) are HW identical, the main differences exist per SKUs are related to RF Bands supported. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS) and FCC Part 15E (equipment class: NII) reuse the original model's result and do spot-check, following the FCC KDB 484596 D01 v01.

The applicant takes full responsibility that the test data as referenced in this report represent compliance for this FCC ID (FCC ID: UZ7TC78B1).

2. Difference Section

The difference between FCC ID: UZ7TC78A1 and FCC ID: UZ7TC78B1 is the performance for cellular bands.
The details of similarity and difference can be found as follow.

UZ7TC78A1

LTE
B2/B4/B25/B66
B5/B26
B12/B13/B14/B17/B71
B7/B38/B41
B48

WCDMA
B2/B4
B5 GSM850/1900

NR5G
N2/N25/N66
N5/N26
N12/N13/N14/N17/N71
N7/N38/N41
N48
N77/N78

UZ7TC78B1

LTE
B1/B3
B2/B66/B39
B4
B5/B8/B20
B7
B17/B28/B71
B38/B40/B41
B42
B43

WCDMA
B1
B2/B4
GSM850/900 1800/1900
B5/B8

NR5G
N1/N3
N2/N66
N5/N8/N20
N7
N28/N71
N38/N40/N41
N77/N78



3. Spot Check Verification Data Section

Conducted power test and radiated spurious emission test against the variant model based on the worst-case condition from the original model was performed in this filing and the verification test results Similar to the original FCC ID. Detail spot check test result can be found in the variant model report, please refer to detail section table in section 4.

Based on the same WLAN Chipset, the same conducted power of FCC ID: UZ7TC78A1 was used for the following verification

Summary of the spot check:

Test Item	Mode	UZ7TC78A1 Worst Result	UZ7TC78B1 Worst Result	Difference (dB)
Conducted Power (dBm)	BT-DH1	5.25	4.39	-0.86
	BLE5.0 (2Mbps)	3.4	3.1	-0.3
	WLAN 2.4G (MIMO)	21.56	21.26	-0.3
	WLAN 5G B1-3 (MIMO)	20.27	19.31	-0.96
	WLAN 5G B4 (MIMO)	20.26	20.31	0.05
	WLAN 6E B5-B8 (MIMO)	17.17	16.27	-0.9
Radiated Spurious Emission (dBuV/m)	BT-3DH1	47.06	48.11	1.05
	BLE5.0 (2Mbps)	57.18	56.21	-0.97
	WLAN 2.4G (MIMO)	67.87	67.48	-0.39
	WLAN 5G B1-3 (MIMO)	64.56	65.15	0.59
	WLAN 5G B4 (MIMO)	66.94	65.31	-1.63
	WLAN 6E B5-B8 (MIMO)	67.02	66.86	-0.16

Conclusion:

The spot check emission level is not degraded more than 3dB, and the margin to the limit is greater than 1.5dB, data referencing is justified according to the guidance in the KDB inquiry.



4. Reference detail Section

Rule Part	Equipment Class	Wireless Technology	Frequency Band (MHz)	Reference FCC ID (Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)
15C	DTS	Bluetooth-LE Wi-Fi	2400~2483.5	UZ7TC78A1	Original Grant	FR271554B FR271554C	UZ7TC78B1
	DSS	Bluetooth	2400~2483.5	UZ7TC78A1	Original Grant	FR271554A	UZ7TC78B1
15E	NII	Wi-Fi	5150~5250 5250~5350 5470~5725 5725~5850 5945~6425 6425~6525 6525~6875 6875~7125	UZ7TC78A1	Original Grant	FR271554E FR271554F FR271554G	UZ7TC78B1

END of this report