



Spot Check Evaluation

APPLICANT : Bullitt Group
EQUIPMENT : Rugged Smart Phone
BRAND NAME : Motorola
MODEL NAME : XT2083-9
FCC ID : ZL5MDFE
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(M)
47 CFR Part 15 Subpart C §15.225
47 CFR Part 15 Subpart C §15.247
47 CFR Part 15 Subpart E §15.407

We, Sporton International (ShenZhen) Inc., 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 of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055
People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
112510	Rev. 01	Initial issue of report	Apr. 19, 2021

1 General Description

1.1 Applicant

Bullitt Group

One Valpy Valpy Street, Reading, United Kingdom, RG1 1AR

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Rugged Smart Phone
Brand Name	Motorola
Model Name	XT2083-9
FCC ID	ZL5MDFE
EUT supports Radios application	GSM/WCDMA/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver and GNSS
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Specification of Accessory

Specification of Accessory				
AC Adapter(US)	Brand Name	Motorola (Chenyang)	Model Name	MC-201
Battery	Brand Name	Motorola (Sunwoda)	Model Name	JK50
Earphone	Brand Name	Motorola (Juwei)	Model Name	JWEP1123-T03
USB Cable	Brand Name	Motorola (Yihuaxing)	Model Name	T365-008

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



2 Re-use of Measured Data

2.1 Introduction Section

This application re-uses data collected on a similar device. The subject device of this application (Model: XT2083-9, FCC ID: ZL5MDFE) is electrically identical to the reference device (Model: XT2083-8, FCC ID: ZL5MDFL) for the portions of the circuitry corresponding to the data being re-used. Based on their similarity, the FCC Part 15C (equipment class: DTS, DSS, DXX) and FCC Part 15E (equipment class: NII) and FCC Part 22, 24, 27 (equipment class: PCE) 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: ZL5MDFE .

2.2 Model Difference Information

The **main** difference between FCC ID: ZL5MDFL and FCC ID: ZL5MDFE is as below:

- Add LTE Band 26/41.
- Antenna / PCB Layout / PCB comment / LCD / Speaker difference.

Other differences and all the details of similarity and difference can be found in the confidential documents.

**2.3 Reference detail Section:**

Rule Part	Equipment Class	Frequency Band (MHz)	Reference FCC ID(Parent)	Type Grant/ Permissive Change	Reference Title	FCC ID Filling (Variant)	Report Title/Section
15C	DSS (BR/EDR)	2400~2483.5	ZL5MDFL	Original Grant	FR112011A	ZL5MDFE	All sections applicable
	DTS (BLE)	2400~2483.5	ZL5MDFL	Original Grant	FR112011B	ZL5MDFE	All sections applicable
	DTS (WLAN)	2400~2483.5	ZL5MDFL	Original Grant	FR112011C	ZL5MDFE	All sections applicable
	DXX (NFC)	13.56	ZL5MDFL	Original Grant	FR112011D	ZL5MDFE	All sections applicable
15E	U-NII-1	5150~5250	ZL5MDFL	Original Grant	FR112011E	ZL5MDFE	All sections applicable
	U-NII-2A	5250~5350	ZL5MDFL	Original Grant	FR112011E	ZL5MDFE	All sections applicable
	U-NII-2C	5470~5725	ZL5MDFL	Original Grant	FR112011E	ZL5MDFE	All sections applicable
	U-NII-3	5725~5850	ZL5MDFL	Original Grant	FR112011F	ZL5MDFE	All sections applicable
	DFS	5250~5350 5470~5725	ZL5MDFL	Original Grant	FZ112011	ZL5MDFE	All sections applicable
22, 24, 27	PCE (GSM)	GSM 850/1900	ZL5MDFL	Original Grant	FG112011A	ZL5MDFE	All sections applicable
	PCE (WCDMA)	Band II, V	ZL5MDFL	Original Grant	FG112011A	ZL5MDFE	All sections applicable
	PCE (LTE)	B2/5/7	ZL5MDFL	Original Grant	FG112011B	ZL5MDFE	All sections applicable



2.4 Spot Check Verification Data Section

Conducted power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model

Summary for power spot check for each rule entry and technology is listed as below:

Test Item	Mode	ZL5MDFL Parent Worst Result	ZL5MDFE Variant Check Result	Difference (dB)
Conducted Power (dBm)	BT-1Mbps CH39	11.1	9.8	-1.3
	BLE4.2(1Mbps) CH39	6.9	4.4	-2.5
	WLAN 2.4GHz 802.11b CH06	17.2	17.1	-0.1
	WLAN 2.4GHz 802.11g CH06	18.1	18	-0.1
	WLAN 2.4GHz 802.11 n HT20 CH06	17.6	17.5	-0.1
	WLAN 5GHz 802.11a CH36	17.93	17.75	-0.18
	WLAN 5GHz 802.11n HT20 CH48	16.99	16.65	-0.34
	WLAN 5GHz 802.11n HT40 CH134	15.99	15.79	-0.2
	WLAN 5GHz 802.11ac VHT20 CH140	16.89	16.75	-0.14
	WLAN 5GHz 802.11ac VHT40 CH134	15.83	15.65	-0.18
	WLAN 5GHz 802.11ac VHT80 CH122	16.11	15.85	-0.26
	WWAN GSM 850	32.85	32.82	-0.03
	WWAN GSM 1900	29.95	29.95	0
	WWAN WCDMA Band II	23.67	23.42	-0.25
	WWAN WCDMA Band V	23.41	23.08	-0.33
	WWAN LTE Band 2	23.67	23.38	-0.29
	WWAN LTE Band 5	23.54	23.38	-0.16
	WWAN LTE Band 7	23.78	23.75	-0.03

**Conclusion:**

Conducted power test against the variant model based on the worst-case condition from the original model was performed in this filing to demonstrate the test data from original model remains representative for the variant model.

Based on the spot check test result, the test data from the original model is representative for the variant model. The power level spot check are shown within expected level compliant to limit line.

We are using power measurement from the original parent model reports to list on the grant.

The same DFS detection is used in the variant. Hence, there is no spot check data for DFS.

We confirm that the test data reuse policy of FCC KDB 484596 D01 Referencing Test Data v01 has been followed and the test data as referenced from the parent model report represents compliance with new FCC ID.

-THE END-