RF TEST REPORT



Report No.: FCC_IC_RF_SL18102402-ZBR-062_Co-Location_Rev1.0 Supersede Report No.: FCC_IC_RF_SL18102402-ZBR-062_Co-Location

Applicant	•••	Zebra Technologies Corporation		
Host Product Name		Thermal Printer		
Module Model No.		ZQ3BT M6e-MicroTT		
Test Standard	:	FCC 15.225, 15.247,15.249 RSS 247 Issue 2, RSS-210 Issue 9: 2016		
Test Method	:	FCC 15.225, 15.247 ANSI C63.10 2013 RSS Gen Issue 5 2014		
FCC ID	:	I28-ZBRZQ3BT I28-RFIDM6EMTT		
IC		3798B-ZBRZQ3BT RFIDM6EMTT		
Dates of test		12/10/2018 – 12/20/2018		
Issue Date	•••	12/27/2018		
Test Result		🛛 Pass 🔹 🗆 Fail		
Equipment complied w	vith	the specification [X]		
Equipment did not cor	npl	y with the specification []		

This Test Report is Issued Under the Authority of:	
Shuo	a
Shuo Zhang	Chen Ge
RF Test Engineer	Engineer Reviewer
	e reproduced in full only rt is applicable to the tested sample only

Issued By: SIEMIC Laboratories 775 Montague Expressway, Milpitas, CA 95035



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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	EMC, RF/Wireless, Telecom, Safety
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

Accreditations for Conformity Assessment

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & RED Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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Report Revision History 1

Report No.	Report Version	Description	Issue Date
FCC_IC_RF_SL18012901-ZBR-003_Co-Location	None	Original	12/20/2018
FCC_IC_RF_SL18102402-ZBR-062_Co-Location_Rev1.0	1.0	Update EUT info	12/27/2018

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2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company:	Zebra Technologies Corporation
Host Product:	ZT610, ZT620
Module(s) Model:	ZQ3BT
	M6e-MicroTT

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	• •	Zebra Technologies Corporation
Applicant Address	•••	3 Overlook Point Lincolnshire, IL 60069, USA
Manufacturer Name	:	Zebra Technologies Corporation
Manufacturer Address	:	3 Overlook Point Lincolnshire, IL 60069, USA

4 <u>Test site information</u>

Lab performing tests	:	SIEMIC Laboratories
Lab Address	:	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	:	881796
IC Test Site No.	:	4842D-2
VCCI Test Site No.	:	A0133

5 Modification

Index	ltem	Item Description	
-	-	-	-
-	-	-	-

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6 EUT Information

6.1 EUT Description

Host Product Name	Thermal Printer
Host Model No.	ZT610, ZT620
Trade Name	Zebra Technologies Corporation
Serial No.	76J184300386, 76J184400121
Input Power	1100-240V, 50-60Hz
Power Adapter Manu/Model	N/A, internal PSU
Power Adapter SN	N/A, internal PSU
Product Hardware version	N/A
Date of EUT received	12/01/2018
Equipment Class/ Category	DTS, DSS
Port/Connectors	USB, USB host x2, Gig-Ethernet, RS232, Parallel
Remark	Only model ZT620 is tested as worst case. ZT610 and ZT620 have the same internal power supply and control PCB

6.2 Radio Description

Specifications for Radio:

Bluetooth LE:

Radio Type	Bluetooth LE
Operating Frequency	2402MHz-2480MHz
Modulation	DSSS (LE)
Channel Spacing	2MHz
Antenna Type	Chip
Antenna Gain	1.69 dBi
Antenna Connector Type	N/A
Note	N/A

BT Radio:

Radio Type	Bluetooth (Ver4.0+EDR)
Operating Frequency	2402MHz-2480MHz
Modulation	FHSS (BDR, EDR)
Channel Spacing	1MHz (BDR, EDR)
Antenna Type	Chip
Antenna Gain	1.69 dBi
Antenna Connector Type	-

RFID:

Radio Type	UHF RFID
Operating Frequency	902.75-927.25 MHz
Modulation	ASK
Antenna Type	Loop/Coil
Antenna Gain	-36dBi
Channel Separation	500 KHz
Number of Channels	50

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7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description			Manufacturer	Note
1	Laptop	ThinkPad T420s	N/A	Lenovo	-

7.2 Cabling Description

Connection Start		Connection Stop		Length / shielding Info		Nata	
Name	From	I/O Port	То	I/O Port	Length (m)	Shielding	Note
USB	EUT	I/O Port	Laptop	USB	2	Unshielded	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Zebra Toolbox	Set the EUT to transmit continuously in different test mode

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8 Test Summary

Test Item	Test standard		Test Method/Procedure	Pass / Fail
Antenna Requirement	FCC IC	15.203 -	ANSI C63.10 – 2013 558074 D01 DTS Meas Guidance v05	⊠ Pass □ N/A
	FCC	15.225(a)	ANSI C63.10 2013	□ Pass
AC Conducted Emissions Voltage	IC	RSS Gen (7.2.2)	RSS Gen. 8.8	🖾 N/A

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Radiated Spurious Emission	FCC	_	FCC	RSS Gen Issue 5: 2018	⊠ Pass
	IC		IC	100 001 13300 3. 2010	□ N/A
Frequency Stability	FCC	-	FCC	-	□ Pass
Trequency Stability	IC	-	IC	-	⊠ N/A
Occupied Bandwidth	FCC	-	FCC	-	□ Pass
	IC	-	IC	-	⊠ N/A
Remark	1. 2. 3.	 All measurement uncertainties are not taken into consideration for all presented test result. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual. Only Radiated Spurious Emission for colocation has been tested for this report 			maintained ed in the user's

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Measurement Uncertainty 9

Emissions						
Test Item	Frequency Range	Description	Uncertainty			
AC Conducted Emissions	150KHz – 30MHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±3.5dB			
RF conducted measurement	150KHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2	±0.95dB			
Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB			
Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	±6dB			

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10 Measurements, examination and derived results

10.1 Antenna Requirement

Spec	Requirement	Applicable
§15.203	 An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. Antenna requirement must meet at least one of the following: a) Antenna must be permanently attached to the device. b) The antenna must use a unique type of connector to attach to the device. c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device. 	
Remark	The Bluetooth Module uses a Chip antenna that is permanently attached to the board which me requirement. The UHF RFID Module uses a Loop/Coil antenna that is integrated to the board w requirement.	
Result	⊠ PASS □ FAIL	

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10.2 Radiated Measurements

10.2.1 Radiated Measurements 30MHz to 1GHz

Requirement(s):

	Requirement			Applicable
47 CFR §15.225 RSS-210 (B.6)	Operation wit (a) The field strength of any en not exceed 15 (b) Within the bands 13.410 strength of any emissions sh (c) Within the bands 13.110 strength of any emissions sh (d) The field strength of any en MHz band shall not exceed Frequency range (MI <u>30 – 88</u> <u>88 – 216</u> <u>216 960</u> Above 960	-13.567 MHz shall ers. 10 MHz, the field eter at 30 meters. 10 MHz the field eter at 30 meters. he 13.110-14.010		
Test Setup	Ratio Absorbing Mater	Semi Anechoic Chamber		
Procedure	 The test was carried out a Maximization of the emiss polarization, and adjusting a. Vertical or horiz rotation of the E b. The EUT was th c. Finally, the ante 3. A Quasi-peak measurement 	n and allowed to warm up to its n t the selected frequency points c ions, was carried out by rotating the antenna height in the follow ontal polarisation (whichever gav UT) was chosen. Hen rotated to the direction that g enna height was adjusted to the h ent was then made for that freque ted for the next frequency point,	btained from the EUT char the EUT, changing the ant ing manner: re the higher emission leve ave the maximum emission leight that gave the maximi ency point.	enna I over a full n. um emission.
Test Date	12/10/2018 – 12/19/2018	Environmental conditions	Temperature Relative Humidity Atmospheric Pressure	20.1°C 36% 1026mbar
Remark	•			
Result	🛛 Pass 🛛 Fail			
Result				
	See below)			

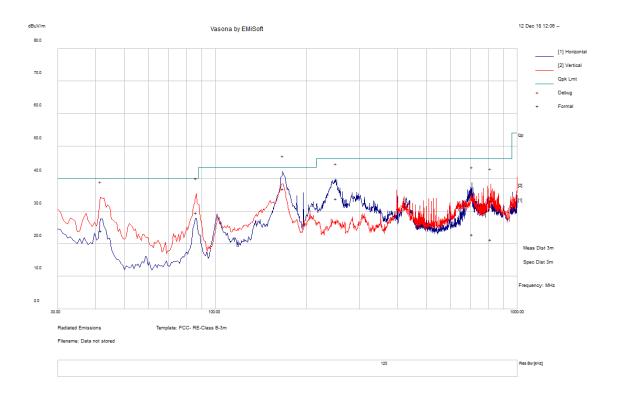
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Test specification:	Radiated Emissions	adiated Emissions				
Mains Power:	120VAC, 60Hz					
Tested by:	Shuo Zhang		Result:	⊠ Pass □ Fail		
Test Date:	12/12/2018					
Remarks:	UHF and BT transmit simultaneously	UHF and BT transmit simultaneously				





f=30MHz -	1000MHz	Measurements
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Frequency MHz	Raw dBµV/m	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
167.23	48.11	12.33	-23.6	36.84	Quasi Max	Н	143	253	43.5	-6.66	Pass
86.39	45.55	11.75	-27.7	29.6	Quasi Max	V	101	206	40	-10.4	Pass
41.76	34.26	11.34	-21.53	24.07	Quasi Max	V	100	188	40	-15.93	Pass
250.78	45.35	12.93	-24.41	33.87	Quasi Max	Н	107	233	46	-12.13	Pass
707.31	22.89	15.19	-15.17	22.91	Quasi Max	Н	161	242	46	-23.09	Pass
815.74	20.14	15.51	-14.27	21.39	Quasi Max	V	345	257	46	-24.61	Pass

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10.2.2 Radiated Spurious Emissions between 1GHz-25GHz

Requirement(s):

For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required □ 20 dB down ⊠ 30 dB down or restricted band, emission must also comply with the radiated emission limits specified in 15.209	
or restricted band, emission must also comply with the radiated emission limits specified in 15.209	
dio Absorbing Material	
EUT 1.5m Ground Plane	Spectrum Analyzer
 a. Vertical or horizontal polarisation (whichever gave the higher emission rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emi finally, the antenna height was adjusted to the height that gave the maximum emited and the maximum emited and the second secon	characterisation. e antenna polarizatior level over a full ssion. aximum emission.
	ated. The results
	The EUT was switched on and allowed to warm up to its normal operating condit The test was carried out at the selected frequency points obtained from the EUT Maximization of the emissions, was carried out by rotating the EUT, changing the and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emit c. Finally, the antenna height was adjusted to the height that gave the maximum An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency

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Test specification:	Radiated Emissions	Radiated Emissions					
Mains Power:	120VAC, 60Hz						
Tested by:	Shuo Zhang	Result:	⊠ Pass □ Fail				
Test Date:	12/12/2018						
Remarks:	UHF and BT transmit simultaneously	UHF and BT transmit simultaneously					

Frequency MHz	Raw dBµV/m	Cable Loss	AF dB	Level dBµV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBµV/m	Margin dB	Pass /Fail
4803.64	55.59	4.1	-0.93	58.77	Peak Max	Н	103	54	74	-15.23	Pass
8818.23	41.25	5.62	-0.15	46.73	Peak Max	V	101	144	74	-27.27	Pass
1593.34	47.43	2.43	-6.04	43.83	Peak Max	V	137	270	74	-30.17	Pass
4803.64	48.76	4.1	-0.93	51.93	Average Max	Н	103	54	54	-2.07	Pass
8818.23	27.5	5.62	-0.15	32.98	Average Max	V	101	144	54	-21.02	Pass
1593.34	32.1	2.43	-6.04	28.49	Average Max	V	137	270	54	-25.51	Pass

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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions						
Keysight EXA 44GHz Spectrum Analyzer	N9030B(PXA)	MY57140374	09/06/2018	1 Year	09/06/2019	>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	03/09/2018	1 Year	03/09/2019	٢
Horn Antenna (1GHz~26GHz)	3115	100059	11/09/2018	1 Year	11/09/2019	١
Horn Antenna (18GHz~40GHz)	PA-840	181251	06/23/2018	1 Year	06/23/2019	>
Preamplifier (100KHz-7GHz)	LPA-6-30	11170602	05/09/2018	1 Year	05/09/2019	۲
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	08/16/2018	1 Year	08/16/2019	۲

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Annex A. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)	Ā	Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration	Ā	3 meter site
IC Site Registration	A	10 meter site
EU NB	R	Radio Equipment: EN45011: EN ISO/IEC 17065
	B	Electromagnetic Compatibility: EN45011 – EN ISO/IEC 17065
Singapore iDA CB(Certification Body)	đđ	Phase I, Phase II
Vietnam MIC CAB Accreditation	A	Please see the document for the detailed scope
Hong Kong OFCA	A	(Phase II) OFCA Foreign Certification Body for Radio and Telecom
	Ā	(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB	A	Radio: Scope A – All Radio Standard Specification in Category I
	A	Telecom: CS-03 Part I, II, V, VI, VII, VIII

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Japan Recognized Certification Body Designation	ād	Radio : A1. Terminal equipment for purpose of calling Telecom : B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law
		 EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS
Korea CAB Accreditation		Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68
		Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4
Taiwan NCC CAB Recognition	Z	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition	A	CNS 13438
Japan VCCI	R	R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition	B	EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4
		Radiocommunications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771
		Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1
Australia NATA Recognition	Z	AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016,AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2

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