

RF TEST REPORT



Report No.: FCC_IC_RF_SL18020601-ZBR-003A2_Co-Location_Rev1.0
Supersede Report No.: FCC_IC_RF_SL18020601-ZBR-003A2_Co-Location

Applicant	:	Zebra Technologies Corporation
Host Product Name	:	Card Printer
Host Product Model	:	ZC100, ZC150, ZC300, ZC350
Module Model No.	:	ZQ3BT, M6e-Micro, WYSBHVXGXG
FCC Test Standard	:	15.247, 15.407
IC Test Standard	:	RSS-247 Issue 2, RSS-210 Issue 9
Test Method	:	ANSI C63.10 2013 RSS-Gen Issue 5 2018 KDB 558074 D01 15.247 Meas Guidance v05
FCC ID	:	I28-ZBRZQ3BT, I28-RFIDM6EM, I28MD-FXLAN11AC
IC	:	3798B-ZBRZQ3BT, 3798B-RFIDM6EM, 3798B-FXLAN11AC
Dates of test	:	01/28/2019 – 01/30/2019
Issue Date	:	02/27/2019
Test Result	:	☒ Pass ☐ Fail
Equipment complied with the specification		[X]
Equipment did not comply with the specification		[]

This Test Report is Issued Under the Authority of:

Shuo Zhang	Chen Ge
RF Test Engineer	Engineer Reviewer
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only	

Issued By:
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Laboratory Introduction

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Accreditations for Conformity Assessment

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/RRR, 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 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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1 Report Revision History

Report No.	Report	Description	Issue Date
FCC_IC_RF_SL18020601-ZBR-003A2_Co-Location	None	Original	01/31/2019
FCC_IC_RF_SL18020601-ZBR-003A2_Co-Location_Rev1.0	1.0	Update EUT Radio info	02/27/2019

2 Executive Summary

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

Company: Zebra Technologies Corporation
Host Product: ZC100, ZC150, ZC300, ZC350
Module(s) Model: ZQ3BT, M6e-Micro, WYSBHVXG

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page. This test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the modules in specified Hosts.

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 Test site information

Lab performing tests	:	SIEMIC Laboratories
Lab Address	:	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	:	540430
IC Test Site No.	:	4842D-2
VCCI Test Site No.	:	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-
-	-	-	-

6 EUT Information

6.1 EUT Description

Host Product Name	Card Printer
Host Model No.	ZC100, ZC150, ZC300, ZC350
Trade Name	Zebra Technologies Corporation
Serial No.	C3J183200714
Input Power	24VDC
Power Adapter Manu/Model	N/A
Power Adapter SN	N/A
Product Hardware version	N/A
Date of EUT received	12/01/2018
Equipment Class/ Category	DTS, DSS, UNII
Port/Connectors	USB, RJ45
Remark	N/A

6.2 Radio Description

The host EUT contains 3 modules as specified.

Specifications for ZQ3BT Radio:

Module Model No: ZQ3BT

Radio Type	BT/LE		Report Reference
Operating Frequency (MHz)	2402-2480		
Modulation	GFSK	GFSK, $\pi/4$ -DQPSK	
Channel Spacing	2MHz	1MHz	
Number of Channels	40	79	
Antenna Type	Chip		
Antenna Gain	1.69 dBi		
Max conducted power	7.09 dBm		FCC IC_SL17060501-ZBR-021_DSS_Rev2.0
Note			

Module Model No.: WYSBHVXG (AC Radio)

Radio Type	BT		2.4GHz		5GHz		
Operating Frequency (MHz)	2402-2480		2412-2462	2422-2462	5180-5240, 5260-5320 5500-5700, 5745-5825	5190-5230, 5270-5310 5510-5670, 5755-5795	5210, 5290, 5530 5610, 5690, 5775
Modulation	GFSK, $\pi/4$ -DQPSK		DSSS (CCK, DQPSK, DBPSK) OFDM-CCK (BPSK, QPSK, 16QAM, 64QAM)		OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Channel Spacing	2 MHz	1 MHz	20 MHz	40 MHz	20 MHz	40 MHz	80 MHz
Number of Channels	40	79	11	7	22	10	6
Antenna Type	Patch Antenna						
Antenna Gain	3.66 dBi		3.19 dBi				
					Report Reference		
Max conducted power (BT-BLE)	8.43 dBm				FCC_RF_SL15072901-ZBR-024_DTS Rev.2.0 (BLE)		
Max conducted power (BT-BDR/EDR)	10.265 dBm				FCC_RF_SL15072901-ZBR-024_DSS Rev. 3.0 (BT)		
Max conducted power (2.4GHz)	16.77 dBm				FCC_IC_RF_SL15072901-ZBR-024_DTS_2.4G Rev. 2.0		
Max conducted power (5GHz)	13.95 dBm				FCC_RF_SL15072901-ZBR-024_UNII Rev. 2.0		
Note	2.4GHz and 5GHz Radio does not transmit simultaneously						

M6e-Micro:

Radio Type	UHF RFID	Page/Report Reference
Operating Frequency (MHz)	902.75-927.75	
Modulation	ASK	
Channel Spacing	5000 kHz	
Number of Channels	50	
Antenna Type	Loop/Coil	
Antenna Gain	3 dBi	
Antenna Connector Type	U.FL Connector	
Max conducted power	28.01 dBm	SL13080801-ZBR-047-RFID-FCC_Rev1.0
Note	M6e-Micro transmits simultaneously transmit with either ZQ3BT or WYSBHVXGX.	

Host EUT Configuration:

- **ZC100:** optional WYSBHVXGX radio module
- **ZC150:** std LCD, ZQ3BT radio module, and flipper, optional WYSBHVXGX radio module
- **ZC300:** std LCD, ZQ3BT radio module, flipper, ZCLFHF radio module, and optional WYSBHVXGX radio module
- **ZC350:** std LCD, ZQ3BT radio module, flipper, ZCLFHF radio module, M6e-Micro radio module, and optional WYSBHVXGX radio module

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

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

7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
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

8 Test Summary

Test Item	Test standard		Test Method/Procedure	Pass / Fail
Antenna Requirement	FCC	15.203	ANSI C63.10 – 2013 558074 D01 DTS Meas Guidance v05	☒ Pass
	IC	-		☐ N/A
AC Conducted Emissions Voltage	FCC	15.207(a)	ANSI C63.10 2013 RSS Gen. 8.9	☐ Pass
	IC	RSS Gen 8.8		☒ N/A

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Radiated Spurious Emission	FCC	15.209	FCC	ANSI C63.10 2013	☒ Pass
	IC	RSS-GEN 8.9	IC	ANSI C63.10 2013	☐ N/A
Frequency Stability	FCC	-	FCC	-	☐ Pass
	IC	-	IC	-	☒ N/A
Occupied Bandwidth	FCC	-	FCC	-	☐ Pass
	IC	-	IC	-	☒ N/A
Remark	- 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.				

9 Measurement Uncertainty

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

10 Measurements, examination and derived results

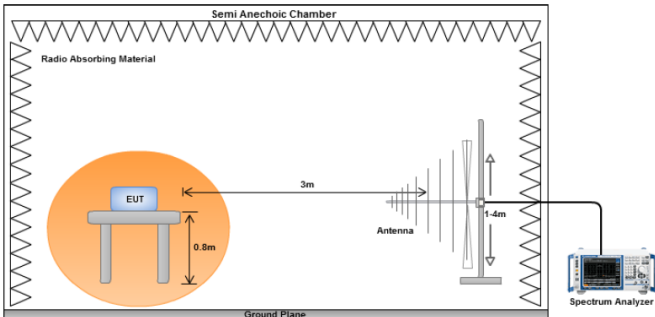
10.1 Antenna Requirement

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 meets the requirement. The UHF RFID Module uses a Loop/Coil antenna that is integrated to the board which meets the requirement. The AC radio uses an u.fl connector for antenna connection which meet the requirement.	
Result	☒ PASS ☐ FAIL	

10.2 Radiated Measurements

10.2.1 Radiated Measurements 30MHz to 1GHz

Requirement(s):

Spec	Requirement	Applicable										
47 CFR §15.225 RSS-210 (B.6)	Operation within the band 13.110–14.010 MHz: (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters. (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209. <table><thead><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr></thead><tbody><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></tbody></table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)											
30 – 88	100											
88 – 216	150											
216 960	200											
Above 960	500											
Test Setup												
Procedure	1. The EUT was switched on and allowed to warm up to its normal operating condition. 2. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. b. The EUT was then rotated to the direction that gave the maximum emission. c. Finally, the antenna height was adjusted to the height that gave the maximum emission. 3. A Quasi-peak measurement was then made for that frequency point. 4. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.											
Test Date	01/28/2019 – 01/30/2019	Environmental conditions Temperature20.1°C Relative Humidity36% Atmospheric Pressure1026mbar										
Remark	-											
Result	☒ Pass ☐ Fail											

Test Data ☒ Yes (See below) ☐ N/A

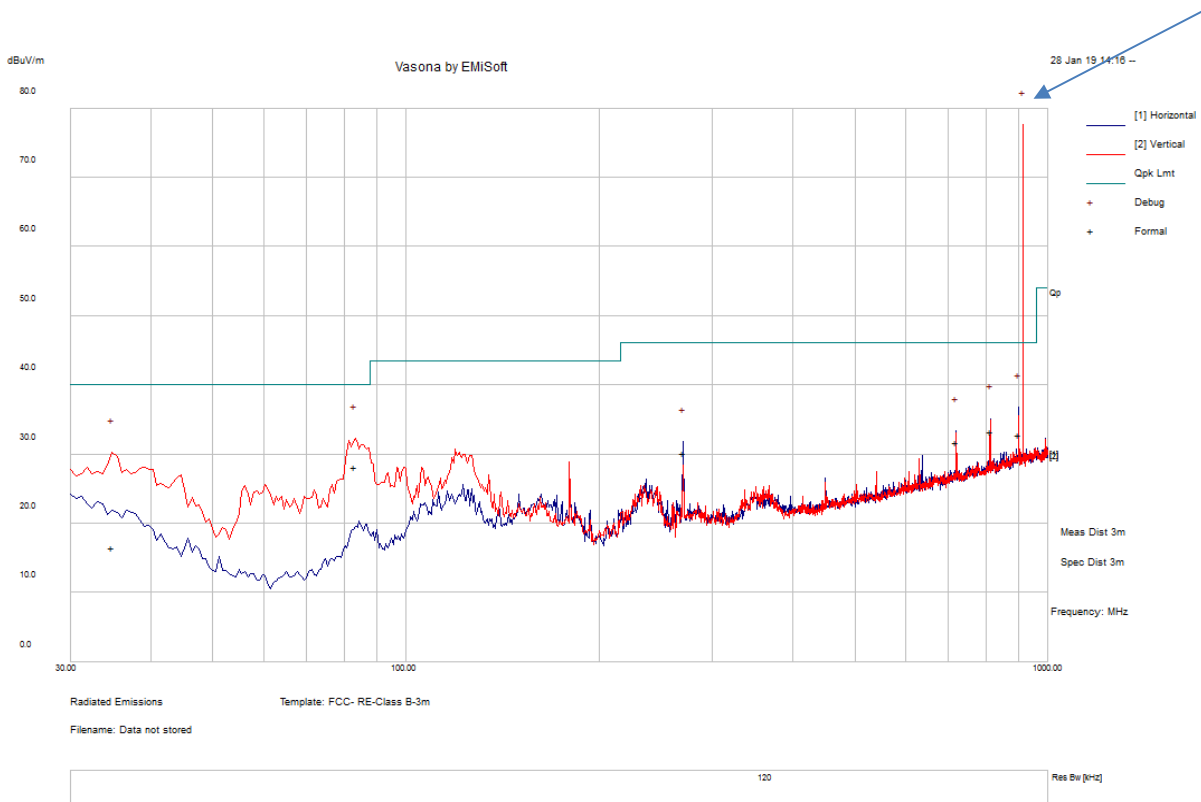
Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Shuo Zhang at 10-meter chamber.

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and BT radio transmit simultaneously			

f=30MHz – 1000MHz plot and 3-meter distance

UHF fundamental

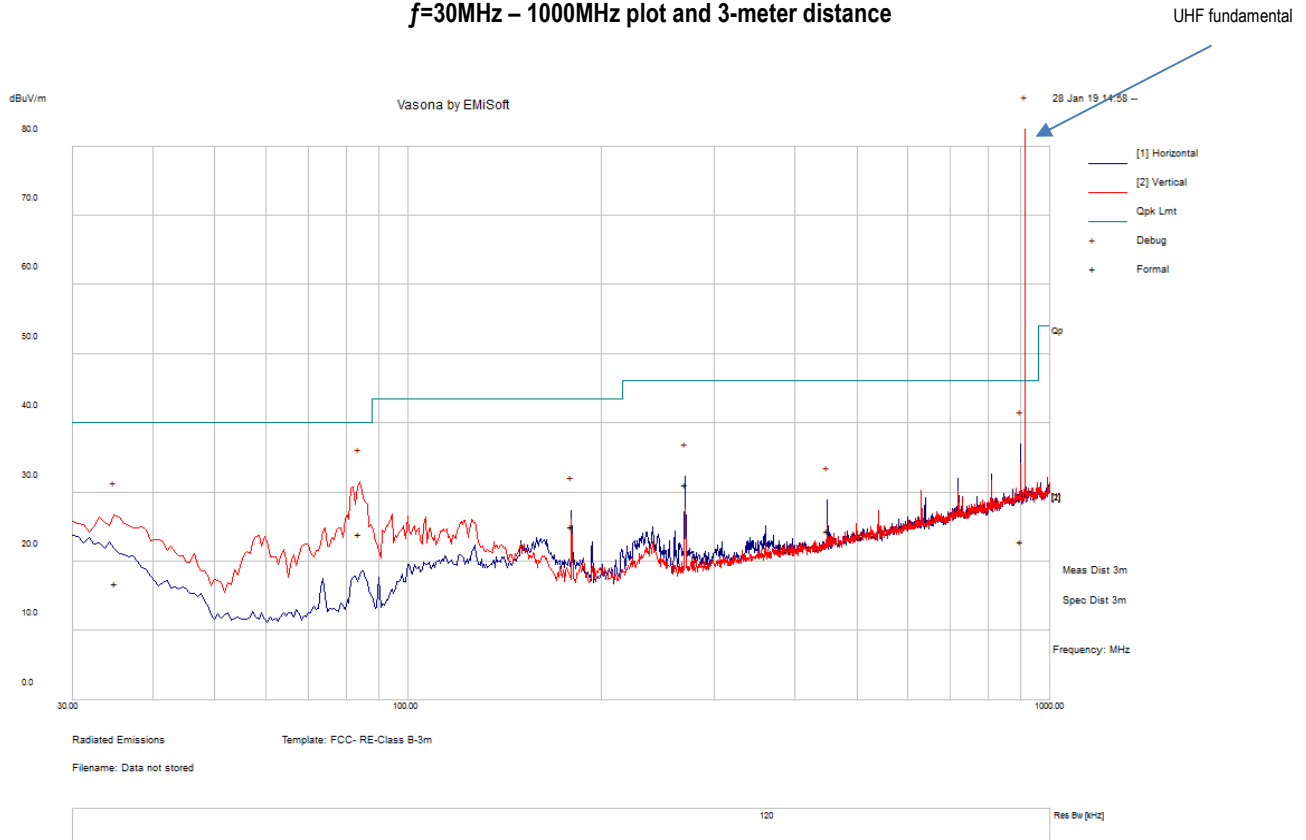


f=30MHz – 1000MHz Measurements

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
83.15	44.15	11.71	-27.71	28.14	Quasi Max	V	101	137	40	-11.86	Pass
900.00	30.17	15.95	-13.29	32.83	Quasi Max	H	168	253	46	-13.17	Pass
34.85	21.85	11.19	-16.43	16.62	Quasi Max	V	253	235	40	-23.38	Pass
813.69	32.15	15.5	-14.32	33.33	Quasi Max	H	100	143	46	-12.67	Pass
719.97	31.63	15.2	-15.09	31.74	Quasi Max	H	100	149	46	-14.27	Pass
269.99	40.2	13.09	-23.09	30.2	Quasi Max	H	105	235	46	-15.8	Pass

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and AC radio Wi-Fi transmit simultaneously			

f=30MHz – 1000MHz plot and 3-meter distance

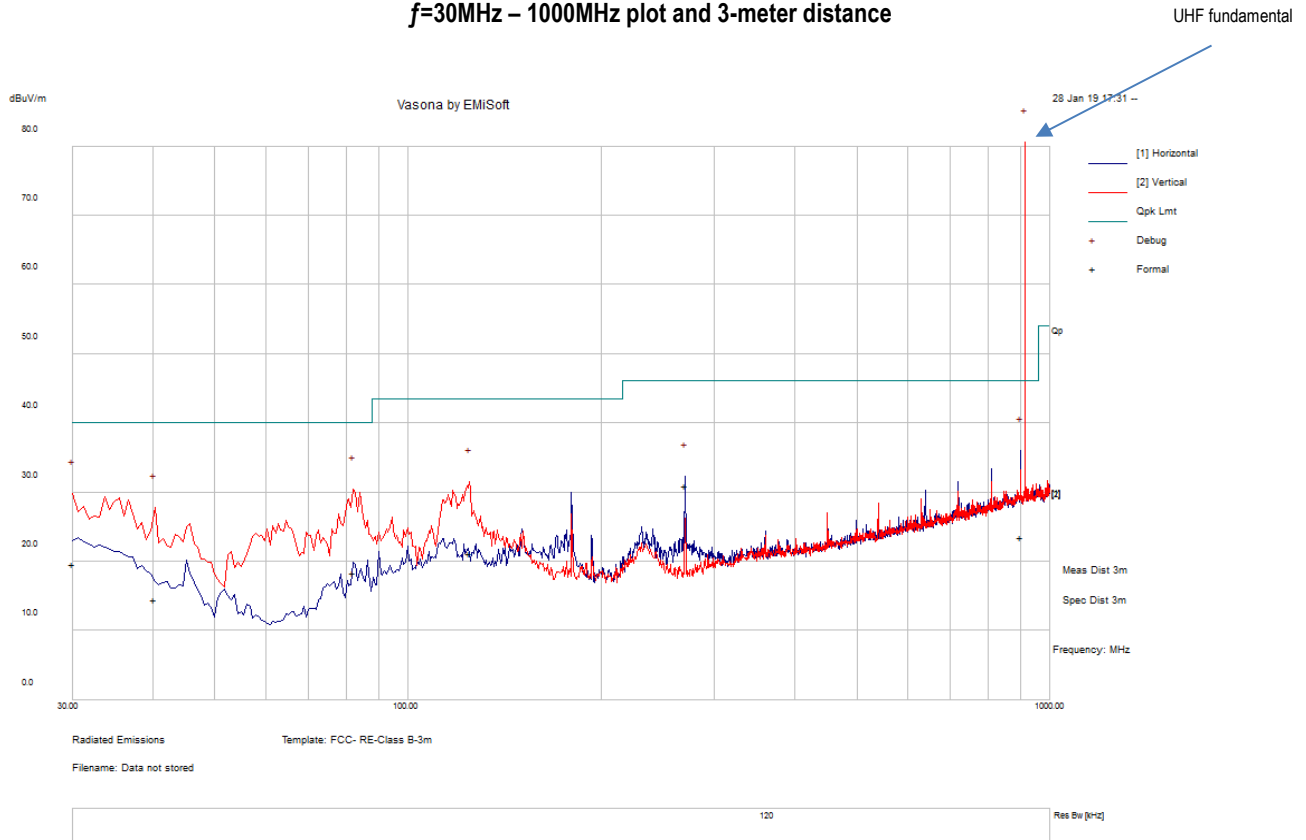


f=30MHz – 1000MHz Measurements

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
83.86	39.99	11.72	-27.71	24	Quasi Max	V	158	77	40	-16.01	Pass
899.76	20.31	15.95	-13.3	22.97	Quasi Max	H	150	93	46	-23.03	Pass
35.04	22.22	11.2	-16.58	16.85	Quasi Max	V	101	338	40	-23.16	Pass
269.99	41.14	13.09	-23.09	31.14	Quasi Max	H	100	225	46	-14.86	Pass
179.98	37.71	12.43	-25.12	25.02	Quasi Max	H	110	113	43.5	-18.48	Pass
449.99	29.52	14.06	-19.1	24.49	Quasi Max	H	235	220	46	-21.51	Pass

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and AC radio BT transmit simultaneously			

f=30MHz – 1000MHz plot and 3-meter distance

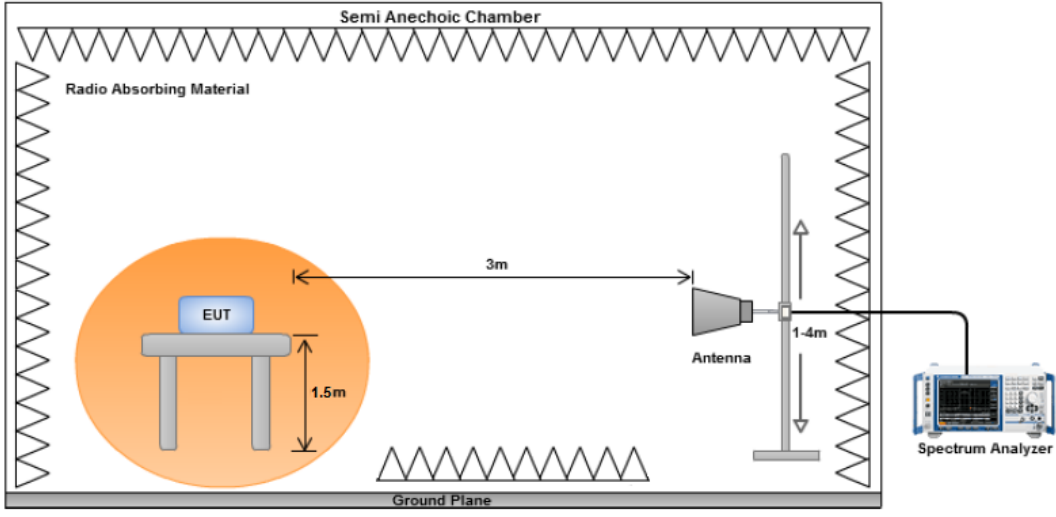


f=30MHz – 1000MHz Measurements

Frequency MHz	Raw dBuV/m	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
82.19	34.46	11.7	-27.72	18.44	Quasi Max	V	199	308	40	-21.56	Pass
899.75	20.88	15.95	-13.3	23.54	Quasi Max	H	128	13	46	-22.46	Pass
30.00	20.62	11.12	-12.08	19.65	Quasi Max	V	134	111	40	-20.35	Pass
124.66	31.75	12.12	-22.66	21.21	Quasi Max	V	100	131	43.5	-22.29	Pass
40.23	23.72	11.31	-20.48	14.55	Quasi Max	V	101	313	40	-25.45	Pass
269.98	41.01	13.09	-23.09	31.01	Quasi Max	H	113	214	46	-14.99	Pass

10.2.2 Radiated Spurious Emissions between 1GHz-25GHz

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS210(A8.5)	a)	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	☒
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	☐
Test Setup			
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: - Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - 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 points were measured.		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.		
Result	☒ Pass		

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Test was done by Shuo Zhang at 10-meter chamber.

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and BT radio 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
4068.47	43.76	3.88	-0.48	47.16	Peak Max	V	128	58	74	-26.84	Pass
8012.02	40.63	5.42	-0.68	45.37	Peak Max	V	222	82	74	-28.63	Pass
1904.23	42.68	2.68	-2.62	42.73	Peak Max	V	188	85	74	-31.27	Pass
4068.47	33.34	3.88	-0.48	36.73	Average Max	V	128	58	54	-17.27	Pass
8012.02	27.14	5.42	-0.68	31.88	Average Max	V	222	82	54	-22.12	Pass
1904.23	29.44	2.68	-2.62	29.49	Average Max	V	188	85	54	-24.51	Pass

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and AC radio Wi-Fi 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
3253.30	41.13	3.47	-1.55	43.05	Peak Max	H	334	186	74	-30.95	Pass
6312.96	41.59	4.7	-0.28	46.01	Peak Max	V	144	257	74	-27.99	Pass
1906.85	41.61	2.68	-2.63	41.66	Peak Max	V	330	156	74	-32.34	Pass
3253.30	28.67	3.47	-1.55	30.59	Average Max	H	334	186	54	-23.41	Pass
6312.96	27.47	4.7	-0.28	31.89	Average Max	V	144	257	54	-22.11	Pass
1906.85	29.71	2.68	-2.63	29.76	Average Max	V	330	156	54	-24.24	Pass

Test specification:	Radiated Emissions			
Mains Power:	120VAC, 60Hz		Result:	☒ Pass ☐ Fail
Tested by:	Shuo Zhang			
Test Date:	01/28/2019			
Remarks:	UHF and AC radio 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
11204.77	40.34	6.05	2.14	48.52	Peak Max	V	140	12	74	-25.48	Pass
6450.71	40.08	4.8	-0.19	44.69	Peak Max	V	181	46	74	-29.31	Pass
3891.08	40.98	3.73	-0.54	44.17	Peak Max	V	254	196	74	-29.83	Pass
11204.77	26.36	6.05	2.14	34.54	Average Max	V	140	12	54	-19.46	Pass
6450.71	26.94	4.8	-0.19	31.55	Average Max	V	181	46	54	-22.45	Pass
3891.08	27.98	3.73	-0.54	31.18	Average Max	V	254	196	54	-22.82	Pass

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	☒
Horn Antenna (1GHz~26GHz)	3115	100059	11/09/2018	1 Year	11/09/2019	☒
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	☒
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	08/16/2018	1 Year	08/16/2019	☒

Annex A. SIEMIC Accreditation

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

Japan Recognized Certification Body Designation		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
Korea CAB Accreditation		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 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		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		R-3083: Radiation 3 meter site C-3421: Main Ports Conducted Interference Measurement T-1597: Telecommunication Ports Conducted Interference Measurement
Australia CAB Recognition		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		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