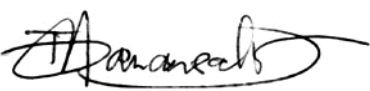


RF TEST REPORT



Report No.: FCC_RF_SL14091201-ZBR-031_NRadio
Supersede Report No.: FCC_RF_SL14091201-ZBR-031_WLAN

Applicant	Zebra Technologies Corporation		
Product Name	N Radio module with 802.11a/b/g/n and BT		
Model No.	WYSBMVGXB		
Test Standard	47CFR15.247, 47CFR15.407 RSS 210 Issue 8: 2010, RSS Gen Issue 4: 2014		
Test Method	ANSI C63.4: 2014 558074 D01 DTS Meas Guidance V03r02 789033 D01 General UNII Test Procedures Old Rules v01r04		
FCC ID	I28MD-EXLAN11N		
IC ID	3798B-EXLAN11N		
Date of test	12/01/2014 - 12/09/2014		
Issue Date	01/13/2015		
Test Result	<u>Pass</u> Fail		
Equipment complied with the specification	☒ [x]		
Equipment did not comply with the specification	☐ []		
			
Teody Manansala		David Zhang	
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:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



775 Montague Expressway, Milpitas, CA 95035, USA • Phone: (+1) 408 526 1188 • Facsimile (+1) 408 526 1088

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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.

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	Safety, EMC , RF/Wireless, Telecom
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 & R&TTE Directive
Japan	MIC (RCB 208)	RF , Telecom
HongKong	OFTA (US002)	RF , Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_RF_SL14091201-ZBR-031_WLAN	Original	NONE	01/05/2015
FCC_RF_SL14091201-ZBR-031_NRadio	N/A	Update EUT info	01/13/2015

2 Executive Summary

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

Company: Zebra Technologies Corporation
Product: N Radio module with 802.11a/b/g/n and BT
Model: WYSBMVGXB

, which is FCC certified radio module (FCC ID: 128MD-EXLAN11N, IC ID: 3798B-EXLAN11N), to be installed into a printer host (Printer Model: ZQ510, ZQ520) and simultaneously transmission with FCC certified NFC Radio Module (FCC ID: 128MD-1356NFC, IC ID: 3798B-1356NFC), 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	:	333 Corporate Woods Pkwy. Vernon Hills, IL 60061, USA
Manufacturer Name	:	Zebra Technologies Corporation
Manufacturer Address	:	333 Corporate Woods Pkwy. Vernon Hills, IL 60061, USA

4 Test site information

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	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	:	N Radio module with 802.11a/b/g/n and BT
Model No.	:	WYSBMVGXB
Trade Name	:	ZEBRA
Serial No.	:	JUC232145
Host Printer S/N	:	XXRAJ144300280 (ZQ510), XXRBJ143300195 (ZQ520)
Input Power	:	3.3VDC
Power Adapter Manu/Model	:	N/A
Power Adapter SN	:	N/A
Hardware version	:	N/A
Software version	:	N/A
Date of EUT received	:	11/20/2014
Equipment Class/ Category	:	DTS, UNII, DSS
Clock Frequencies	:	N/A
Port/Connectors	:	N/A
Remark	:	The host printer models ZQ510 and ZQ520 are identical to each other except the following characteristics: - ZQ510 has 3" (72mm) wide thermal printhead, 20mm DC step motor, and maximum paper roll width of 3". - ZQ520 has 4" (104mm) wide thermal printhead, 25mm DC step motor, and maximum paper roll width of 4"

6.2 Radio Description

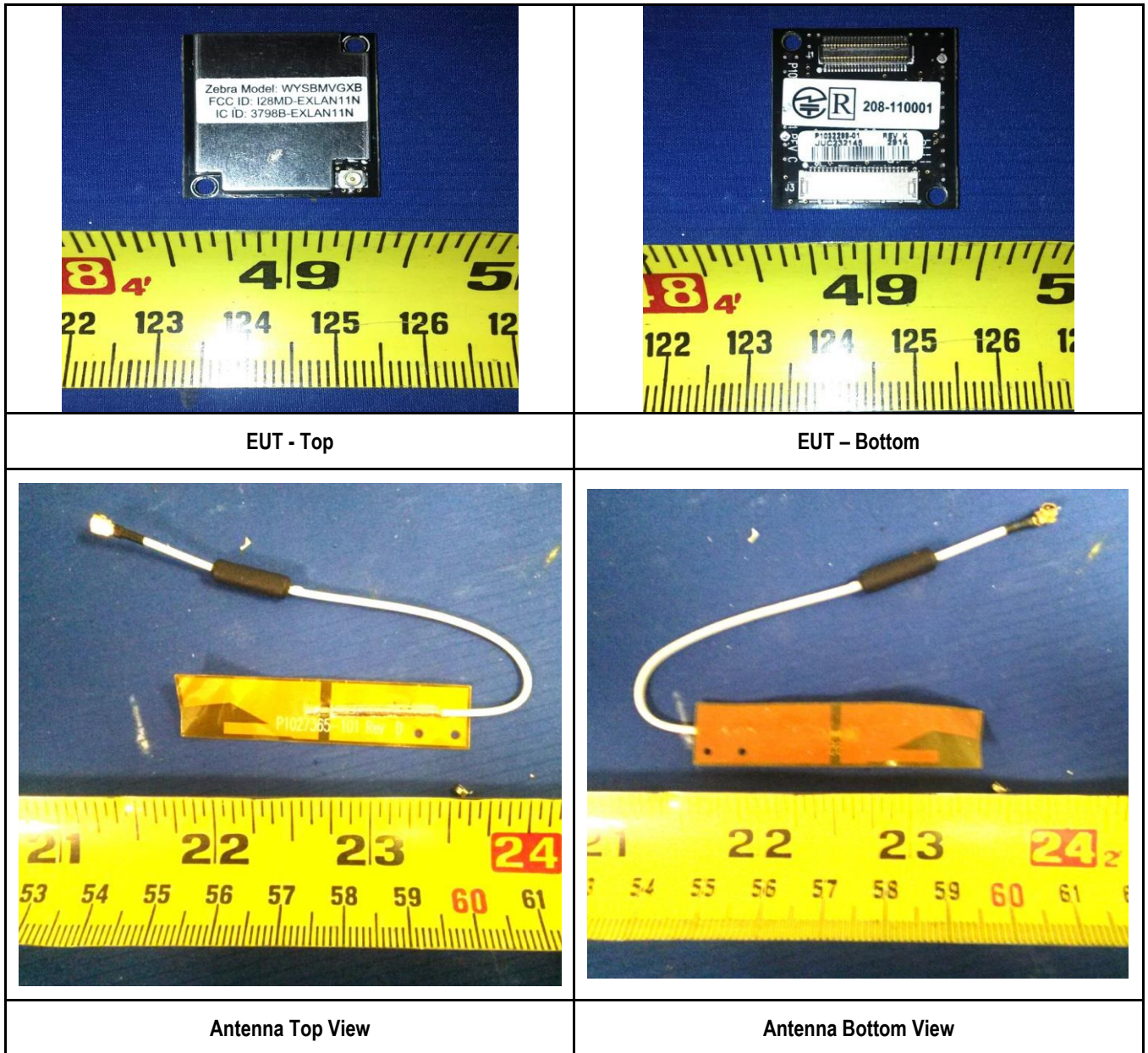
WLAN

Radio Type	802.11b	802.11g	802.11a	802.11n-20M	802.11n-40M
Operating Frequency	2412-2462MHz	2412-2462MHz	5180-5320MHz 5500-5700MHz 5745-5825MHz	2412-2462MHz 5180-5320MHz 5500-5700MHz 5745-5825MHz	5190-5310MHz 5510-5670MHz 5755-5795MHz
Modulation	DSSS (CCK, DQPSK, DBPSK)	OFDM-CCK (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Channel Spacing	5MHz	5MHz	20MHz	5MHz(2.4GHz), 20MHz (5GHz)	40MHz
Number of Channels	11	11	21	11(2.4GH) 21 (5GHz)	7 (2.4GH) 9 (5GHz)
Antenna Type	Patch Antenna				
Antenna Gain	3.81 dBi (2.4GHz), 3.19 dBi (5GHz)				
Antenna Connector Type	U.FL connector				

Bluetooth

Radio Type	Bluetooth (Ver2.1+EDR)
Operating Frequency	2402MHz-2480MHz
Modulation	FHSS (BDR, EDR)
Channel Spacing	1MHz (BDR, EDR)
Antenna Type	Patch Antenna
Antenna Gain	3.81 dBi (2.4GHz),
Antenna Connector Type	U.FL connector

6.3 EUT Photos



6.4 Host Printer Photos



EUT – Front View (ZQ510)



EUT – Rear View (ZQ510)



EUT – Left View (ZQ510)



EUT – Right View (ZQ510)



EUT – Top View (ZQ510)



EUT – Bottom View (ZQ510)



EUT – Front View (ZQ520)



EUT – Rear View (ZQ520)



EUT – Left View (ZQ520)



EUT – Right View (ZQ520)



EUT – Top View (ZQ520)

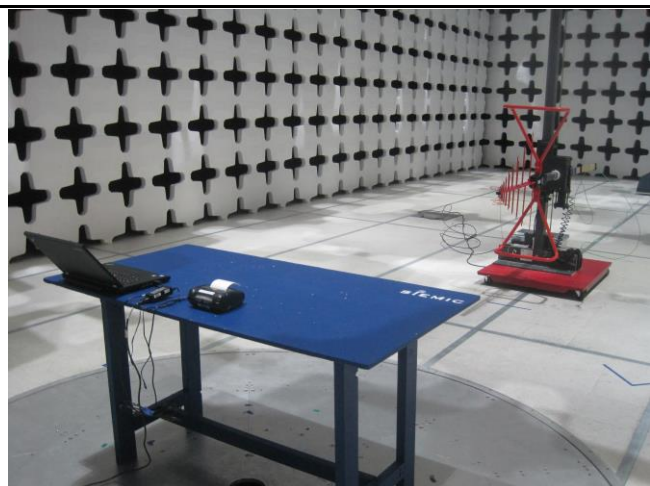


EUT – Bottom View (ZQ520)

6.5 EUT Test Setup Photos



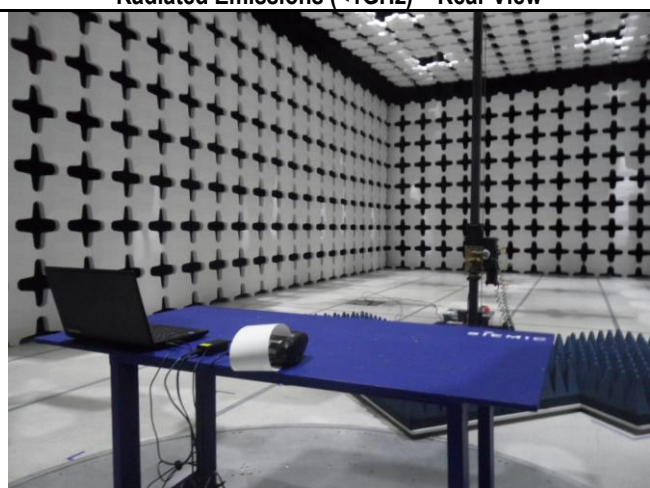
Radiated Emissions (<1GHz) – Front View



Radiated Emissions (<1GHz) – Rear View



Radiated Emission Test Setup (>1GHz) - Front



Radiated Emission Test Setup (>1GHz) – Rear

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Index	Supporting Equipment Description	Model	Serial No.	Manu	Note
1	Laptop	HSTNN-072	5CD2132LM5	HP	-

7.2 Cabling Description

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

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Toolbox 1.71	Set the EUT to different modulation and channel

8 Test Summary

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Radiated Spurious Emissions	FCC	15.209; 15.247(d)	FCC	ANSI C63.4 – 2014 558074 D01 DTS Meas Guidance V03r02	☒ Pass ☐ N/A
	IC	RSS210(A8.5)	IC	-	
Radiated Spurious Emissions	FCC	15.407(b)(2), 15.407(b)(6)	FCC	ANSI C63.4 – 2014 789033 D01 General UNII Test Procedures Old Rules v01r04	☒ Pass ☐ N/A
	IC	RSS210(A9.3)(1)	IC	-	

Note:

This report is C2PC report for the N radio module to be installed into the printer host. Only the spurious emission measurement was required to be made. Please refer to following original FCC test report for other test results,

SL11042701-ZBR-026 (WLAN_15.247) Rev1.0
SL11042701-ZBR-026 (WLAN_15.407)_non DFS Rev1.0
SL11042701-ZBR-026 (DFS)

9 Measurement Uncertainty

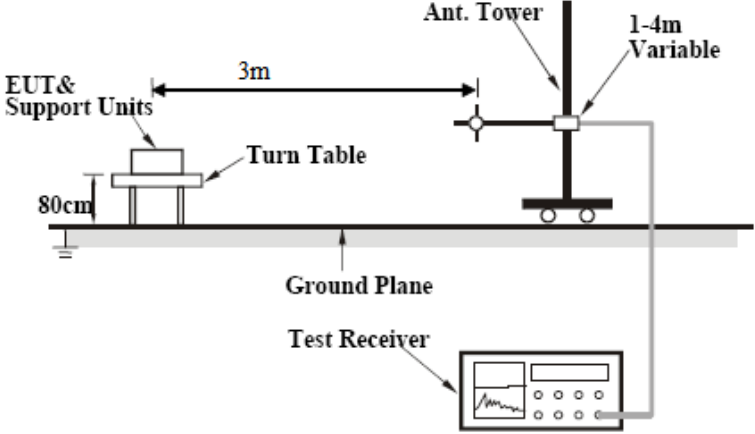
Test Item	Frequency Range	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
Band Edge and Radiated Spurious Emissions	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)	+4.3dB/-4.1dB

10 Measurements, examination and derived results

10.1 Radiated Measurement

10.1.1 Radiated Measurement below 1GHz

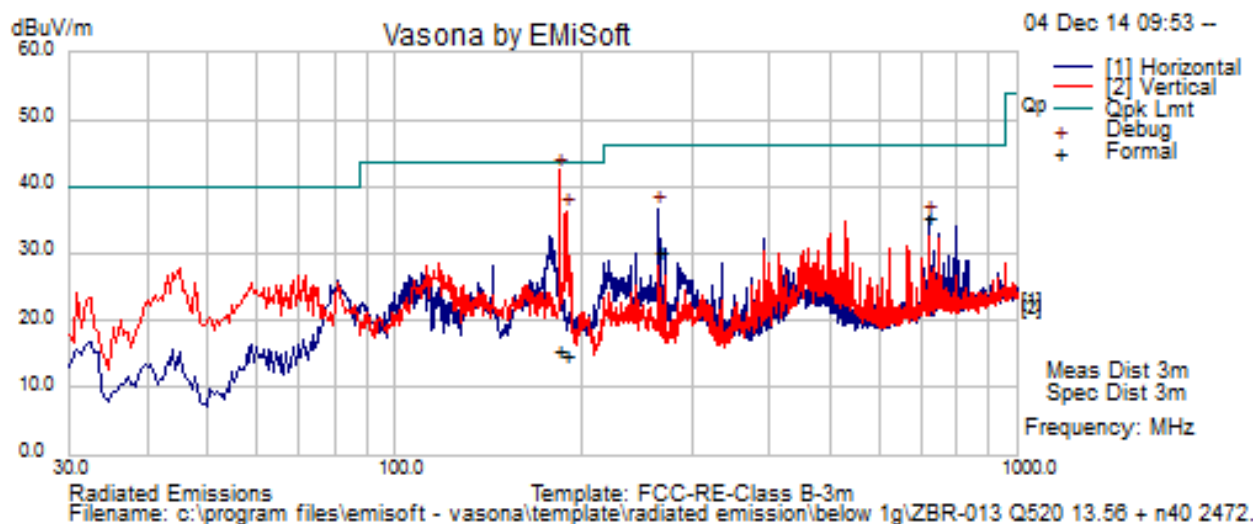
Requirement(s):

Spec	Item	Requirement	Applicable							
47CFR§15.247(d), RSS210(A8.5)	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges	☒							
		<table><tr><th>Frequency range (MHz)</th><th>Field Strength (uV/m)</th></tr><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></table>		Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960
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.									
Remark	N/A									
Result	☒ Pass ☐ Fail									

Test Data ☒ Yes ☐ N/A

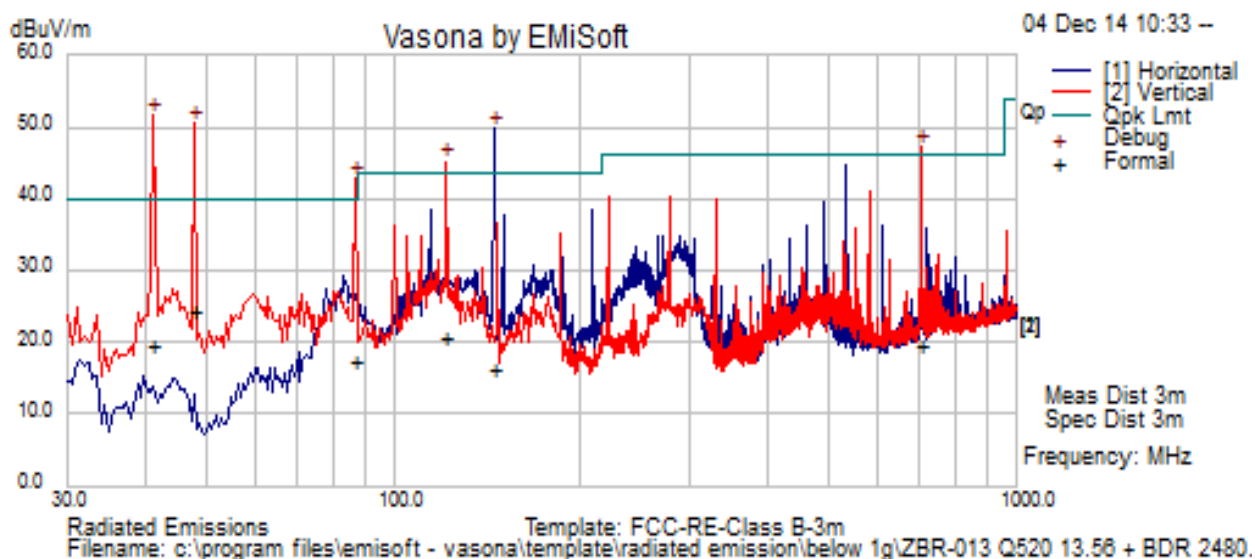
Test Plot ☒ Yes ☐ N/A

Test specification	below 1GHz		Result	Pass
Environmental Conditions:	Temp (°C):	22		
	Humidity (%)	50		
	Atmospheric (mbar):	1009		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	12/04/2014			
Remarks:	Testing with worst case model – ZQ520, N radio WLAN at 11n20 2472MHz, co-location with 13.56MHz NFC module			



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
183.66	42.04	2.42	-28.89	15.56	Quasi Max	V	153.00	7.00	43.50	-27.94	Pass
188.96	40.90	2.45	-28.74	14.60	Quasi Max	V	125.00	295.00	43.50	-28.90	Pass
265.96	53.96	2.85	-26.76	30.05	Quasi Max	H	108.00	200.00	46.00	-15.95	Pass
720.03	49.63	4.57	-18.99	35.21	Quasi Max	H	206.00	210.00	46.00	-10.79	Pass

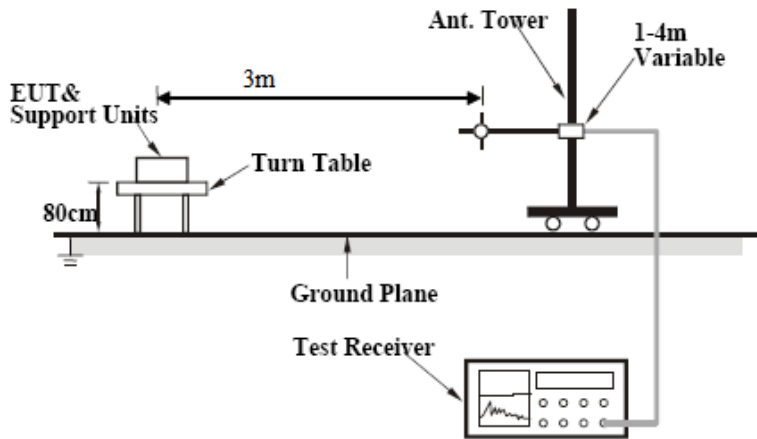
Test specification	below 1GHz		Result	Pass
Environmental Conditions:	Temp (°C):	22		
	Humidity (%)	50		
	Atmospheric (mbar):	1009		
Mains Power:	110VAC, 60Hz			
Tested by:	Teody Manansala			
Test Date:	12/04/2014			
Remarks:	Testing with worst case model – ZQ520, N radio BT at BDR 2480MHz, co-location with 13.56MHz NFC module			



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
41.09	44.94	1.16	-26.64	19.46	Quasi Max	V	114.00	201.00	40.00	-20.54	Pass
48.01	52.41	1.16	-29.45	24.11	Quasi Max	V	104.00	248.00	40.00	-15.89	Pass
145.60	41.12	2.19	-27.00	16.31	Quasi Max	H	247.00	336.00	43.50	-27.19	Pass
86.52	47.81	1.62	-32.05	17.37	Quasi Max	V	139.00	97.00	40.00	-22.63	Pass
121.67	44.78	2.02	-26.03	20.78	Quasi Max	V	100.00	167.00	43.50	-22.72	Pass
703.28	34.30	4.51	-19.22	19.59	Quasi Max	V	375.00	277.00	46.00	-26.41	Pass

10.1.2 Radiated Spurious Emissions > 1GHz

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	Testing with worst case model – ZQ520		
Result	☒ Pass ☐ Fail		

Test Data ☐ Yes ☒ N/A

Test Plot ☒ Yes ☐ N/A

Radiated Emission Test Results (Above 1GHz)

Above 1GHz-40G-Mode1: ZQ520, N radio WLAN at 11n20 2472MHz, co-location with 13.56MHz NFC module

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17974.08	41.03	7.01	14.38	62.42	Peak Max	H	187	225	74	-11.58	Pass
15426.81	43.44	6.88	10.02	60.33	Peak Max	V	207	127	74	-13.67	Pass
1193.94	43.92	1.14	-6.79	38.28	Peak Max	H	167	44	74	-35.72	Pass
1689.68	36.1	1.63	-5.56	32.16	Peak Max	V	193	9	74	-41.84	Pass
1425.30	37.7	1.36	-6.39	32.67	Peak Max	V	192	194	74	-41.33	Pass
17974.08	21.98	7.01	14.38	43.37	Average Max	H	187	225	54	-10.63	Pass
15426.81	29.99	6.88	10.02	46.88	Average Max	V	207	127	54	-7.12	Pass
1193.94	28.8	1.14	-6.79	23.15	Average Max	H	167	44	54	-30.85	Pass
1689.68	22.09	1.63	-5.56	18.16	Average Max	V	193	9	54	-35.84	Pass
1425.30	22.15	1.36	-6.39	17.12	Average Max	V	192	194	54	-36.88	Pass

Above 1GHz-40G-Mode2: ZQ520, N radio BT at BDR 2480MHz, co-location with 13.56MHz NFC module

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
17770.29	41.33	6.99	13.69	62.01	Peak Max	H	135	158	74	-11.99	Pass
15598.34	42.27	6.88	9.34	58.50	Peak Max	V	216	303	74	-15.50	Pass
1194.31	53.04	1.14	-6.79	47.39	Peak Max	V	192	76	74	-26.61	Pass
1688.09	44.24	1.63	-5.57	40.30	Peak Max	H	120	167	74	-33.70	Pass
17770.29	21.31	6.99	13.69	43.99	Average Max	H	135	158	54	-10.01	Pass
15598.34	29.22	6.88	9.34	45.45	Average Max	V	216	303	54	-8.55	Pass
1194.31	39.09	1.14	-6.79	33.45	Average Max	V	192	76	54	-20.55	Pass
1688.09	29.01	1.63	-5.57	25.07	Average Max	H	120	167	54	-28.93	Pass

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	04/20/2014	1 Year	04/20/2015	☐
LISN	Schwarzbeck	NNLK 8129	08/11/2014	1 Year	08/11/2015	☐
CHASE LISN	MN2050B	1018	07/31/2014	1 Year	07/31/2015	☐
Sekonic Hygro Hermograph	ST-50	HE01-000092	05/25/2014	1 Year	05/25/2015	☐
Radiated Emissions						
R & S Receiver	ESL6	100178	03/01/2014	1 Year	03/01/2015	☒
R & S Receiver	ESIB 40	100179	04/20/2014	1 Year	04/20/2015	☒
ETS-Lingren Loop Antenna	6512	00049120	05/13/2014	1 Year	05/13/2015	☐
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	07/03/2014	1 Year	07/03/2015	☒
Horn Antenna (1-26.5GHz)	3115	10SL0059	04/26/2014	1 Year	04/26/2015	☒
Horn Antenna (18-40 GHz)	AH-840	101013	04/23/2014	1 Year	04/23/2015	☒
Pre-Amplifier (1-26.5GHz)	8449B	3008A00715	05/30/2014	1 Year	05/30/2015	☒
Microwave Preamplifier (18-40 GHz)	PA-840	181251	05/30/2014	1 Year	05/30/2015	☒
3 Meters SAC	3M	N/A	10/13/2014	1 Year	10/13/2015	☐
10 Meters SAC	10M	N/A	06/05/2014	1 Year	06/05/2015	☒
Sekonic Hygro Hermograph	ST-50	HE01-000092	05/25/2014	1 Year	05/25/2015	☒
RF Conducted Measurement						
Spectrum Analyzer	N9010A	MY50210206	05/30/2014	1 Year	05/30/2015	☐
Spectrum Analyzer	E4407B	US88441016	05/31/2014	1 Year	05/31/2015	☐
R & S Receiver	ESIB 40	100179	04/20/2014	1 Year	04/20/2015	☐

Annex B. 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 & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	Phase I , Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
HongKong 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 FCC 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