



# RF TEST REPORT



Report No.: FCC\_IC\_RF\_SL18102402-ZBR-062\_BLE\_Rev1.0  
Supersede Report No.: FCC\_IC\_RF\_SL18102402-ZBR-062\_BLE

Applicant	:	Zebra Technologies Corporation
Host Product Name	:	Thermal Printer
Module Model No.	:	ZQ3BT
Host Model No.	:	ZT610, ZT620
Test Standard	:	47 CFR 15.247 RSS247 Issue 2, 2017
Test Method	:	ANSI C63.10: 2013 RSS-Gen Issue 5, 2018 558074 D01 DTS Meas Guidance v05
FCC ID	:	I28-ZBRZQ3BT
IC	:	3798B-ZBRZQ3BT
Dates of test	:	12/10/2018 – 12/19/2018
Issue Date	:	12/27/2018
Test Result	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Equipment complied with the specification [X]		
Equipment did not comply with the specification [ ]		

This Test Report is Issued Under the Authority of:

	
<b>Shuo Zhang</b>	<b>Chen Ge</b>
Test Engineer	Engineer Reviewer

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



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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/RRA, 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 & Radio Equipment Directive (RED)
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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## 1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC_IC_RF_SL18102402-ZBR-062_BLE	None	Original	12/19/2018
FCC_IC_RF_SL18102402-ZBR-062_BLE_Rev1.0	1.0	Update EUT info	12/27/2018

## 2 Executive Summary

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

Company: Zebra Technologies Corporation  
Host Product Name: Thermal Printer  
Host Model No.: ZT610, ZT620  
Module Model No. ZQ3BT

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

## 3 Customer information

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

## 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

Host Product Name	Thermal Printer
Host Model No.	ZT610, ZT620
Module Model No.	ZQ3BT
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

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

## 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 diferent test mode

## 8 Test Summary

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Antenna Requirement	FCC	15.203	FCC	ANSI C63.10 – 2013	<input checked="" type="checkbox"/> Pass
	IC	-	IC	558074 D01 DTS Meas Guidance v05	<input type="checkbox"/> N/A
Restricted Band of Operation	FCC	15.205	FCC	ANSI C63.10:2013	<input checked="" type="checkbox"/> Pass
	IC	RSS Gen 8.10	IC	558074 D01 DTS Meas Guidance v05	<input type="checkbox"/> N/A
AC Conducted Emissions	FCC	15.207(a)	FCC	ANSI C63.10:2013	<input checked="" type="checkbox"/> Pass*
	IC	RSS Gen 8.8	IC	RSS Gen Issue 5: 2018	<input type="checkbox"/> N/A

### DTS Band Requirement

Test Item	Test standard		Test Method/Procedure		Pass / Fail
99% Occupied Bandwidth	-	-	-	-	<input checked="" type="checkbox"/> Pass*
	IC	RSS Gen 6.6	IC	RSS Gen Issue 5: 2018	<input type="checkbox"/> N/A
6dB Bandwidth	FCC	15.247(a)(2)	FCC	558074 D01 DTS Meas Guidance v05	<input checked="" type="checkbox"/> Pass*
	IC	RSS247 (5.2.1)	IC		<input type="checkbox"/> N/A
Band Edge and Radiated Spurious Emissions	FCC	15.247(d)	FCC	ANSI C63.10:2013	<input checked="" type="checkbox"/> Pass
	IC	RSS247 (5.5)	IC	558074 D01 DTS Meas Guidance v05	<input type="checkbox"/> N/A
Output Power	FCC	15.247(b)	FCC	558074 D01 DTS Meas Guidance v05	<input checked="" type="checkbox"/> Pass*
	IC	RSS247 (5.4.4)	IC		<input type="checkbox"/> N/A
Receiver Spurious Emissions	IC	RSS Gen (4.8)	IC	RSS Gen Issue 5: 2018	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
Antenna Gain > 6 dBi	FCC	15.247(e)	FCC	-	<input type="checkbox"/> Pass
	IC	-	IC	-	<input checked="" type="checkbox"/> N/A
Power Spectral Density	FCC	15.247(e)	FCC	558074 D01 DTS Meas Guidance v05	<input checked="" type="checkbox"/> Pass*
	IC	RSS247 (5.2.2)	IC		<input type="checkbox"/> N/A
RF Exposure requirement	FCC	15.247(i)	FCC	-	<input type="checkbox"/> Pass
	IC	RSS Gen(5.5)	IC	RSS Gen Issue 5: 2018	<input checked="" type="checkbox"/> N/A
Remark	<ol style="list-style-type: none"> <li>All measurement uncertainties do not take into consideration for all presented test results.</li> <li>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.</li> <li>Pass* : Please refer to FCC IC_SL17060501-ZBR-021-BLE_Rev2.0 test report.</li> </ol>				



## 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	<p>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.</p> <p>Antenna requirement must meet at least one of the following:</p> <ul style="list-style-type: none"> <li>a) Antenna must be permanently attached to the device.</li> <li>b) The antenna must use a unique type of connector to attach to the device.</li> <li>c) Device must be professionally installed. The installer shall be responsible for ensuring that the correct antenna is employed by the device.</li> </ul>	<input checked="" type="checkbox"/>
Remark	The EUT uses a Chip antenna that is permanently attached to the board which meets the requirement.	
Result	<input checked="" type="checkbox"/> PASS <input type="checkbox"/> FAIL	

## 10.2 Radiated Spurious Emissions below 1GHz

Requirement(s):

Spec	Item	Requirement	Applicable							
47CFR§15.247(d) RSS247 (5.5)	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	<input checked="" type="checkbox"/>							
		<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	<div><div><div>Semi Anechoic Chamber</div><div><div>Radio Absorbing Material</div><div><div>EUT</div><div>0.8m</div></div><div>3m</div><div><div>Antenna</div><div>1-4m</div></div><div>Spectrum Analyzer</div></div></div></div>									
Procedure	<div><div><div>1.</div><div>The EUT was switched on and allowed to warm up to its normal operating condition.</div></div><div><div>2.</div><div>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:<div><div>a.</div><div>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</div></div><div><div>b.</div><div>The EUT was then rotated to the direction that gave the maximum emission.</div></div><div><div>c.</div><div>Finally, the antenna height was adjusted to the height that gave the maximum emission.</div></div></div></div><div><div>3.</div><div>A Quasi-peak measurement was then made for that frequency point.</div></div><div><div>4.</div><div>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</div></div></div>									
Remark	The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.									
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail									

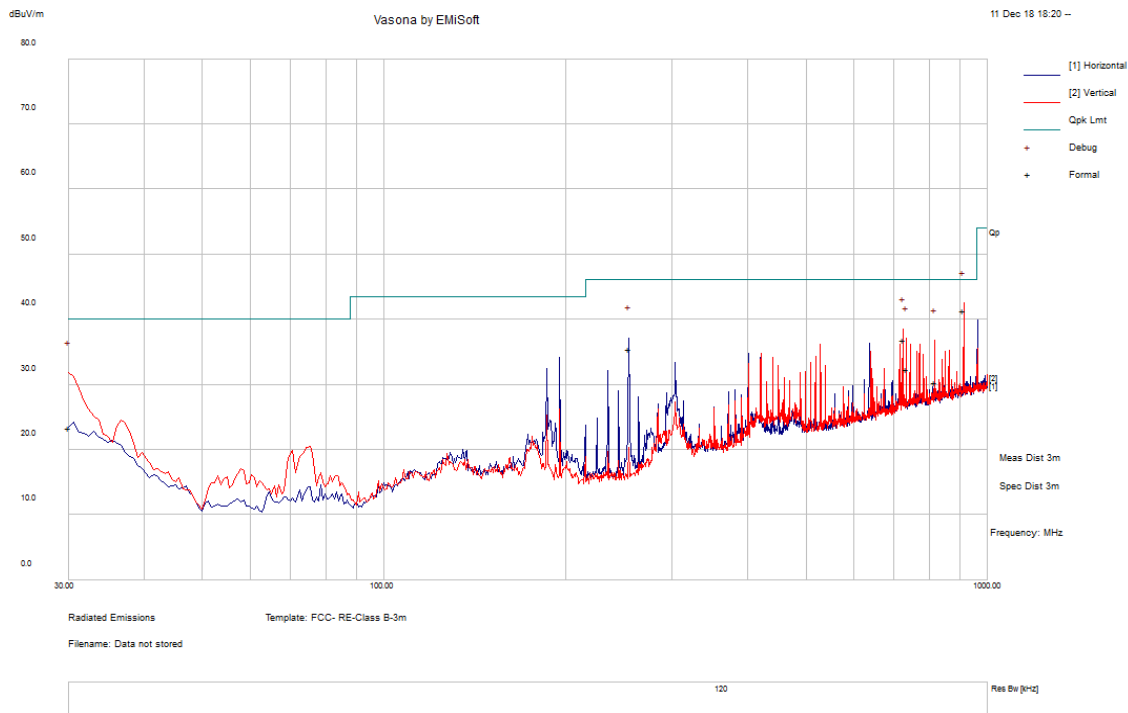
Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Shuo Zhang at 10m chamber.

## Radiated Emission Test Results (Below 1GHz)

Test specification	Below 1GHz				
Environmental Conditions:	Temp (°C):	23	Result	Pass	
	Humidity (%)	46			
	Atmospheric (mbar):	1018			
Mains Power:	120VAC, 60Hz				
Tested by:	Shuo Zhang				
Test Date:	12/12/2018				
Remarks:	BLE, Middle Channel				







## Quasi Max Measurements

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
913.06	38	15.9	-12.54	41.35	Quasi Max	V	137	102	46	-4.65	Pass
724.11	36.77	15.19	-15.1	36.86	Quasi Max	V	100	13	46	-9.14	Pass
30.00	24.37	11.12	-12.08	23.4	Quasi Max	V	105	281	40	-16.6	Pass
254.42	46.78	12.96	-24.21	35.53	Quasi Max	H	104	12	46	-10.47	Pass
733.91	32.28	15.17	-15.09	32.36	Quasi Max	V	165	28	46	-13.64	Pass
816.97	29.03	15.52	-14.22	30.33	Quasi Max	V	137	100	46	-15.67	Pass

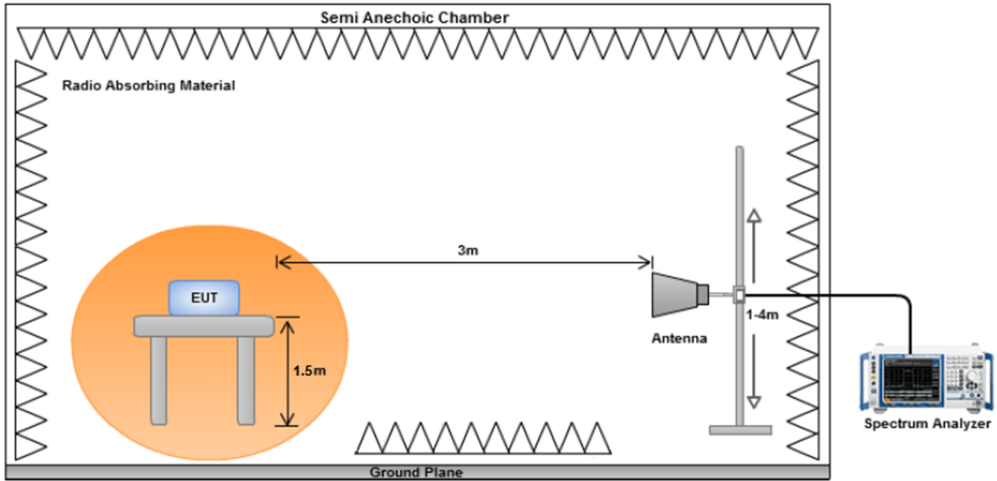
Note: Both horizontal and vertical polarities were investigated. The results above show only the worst case.

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### 10.3 Radiated Spurious Emissions between 1GHz – 25GHz

#### Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(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  <input type="checkbox"/> 20 dB down <input checked="" type="checkbox"/> 30 dB down	<input checked="" type="checkbox"/>
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>
Test Setup			
Procedure	<ol style="list-style-type: none"> <li>The EUT was switched on and allowed to warm up to its normal operating condition.</li> <li>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: <ol style="list-style-type: none"> <li>Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen.</li> <li>The EUT was then rotated to the direction that gave the maximum emission.</li> <li>Finally, the antenna height was adjusted to the height that gave the maximum emission.</li> </ol> </li> <li>An average measurement was then made for that frequency point.</li> <li>Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.</li> </ol>		
Remark	The EUT was scanned up to 40GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

**Test Data**    ☒ Yes (See below)      ☐ N/A

**Test Plot**    ☐ Yes (See below)      ☒ N/A

**Test was done by Shuo Zhang at 10m chamber.**

## Radiated Emission Test Results (Above 1GHz)

### Above 1GHz-25GHz – BLE-2402MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Height cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1285.725	52.4	2.14	-5.98	48.56	Peak Max	V	136	285	74	-25.44	Pass
4804.46	47.99	4.1	-0.93	51.17	Peak Max	H	102	48	74	-22.84	Pass
3307.089	41.19	3.49	-1.6	43.09	Peak Max	V	231	286	74	-30.92	Pass
1285.725	30.09	2.14	-5.98	26.25	Average Max	V	136	285	54	-27.75	Pass
4804.46	39.09	4.1	-0.93	42.27	Average Max	H	102	48	54	-11.73	Pass
3307.089	29.14	3.49	-1.6	31.03	Average Max	V	231	286	54	-22.97	Pass

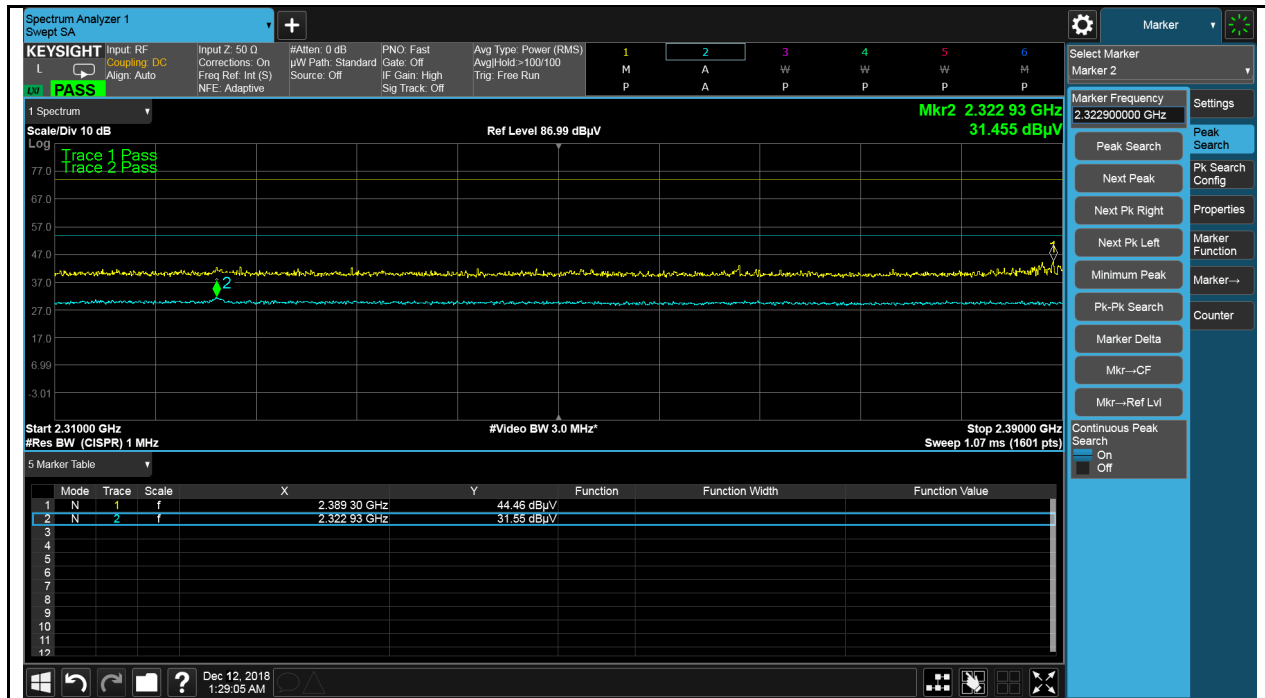
### Above 1GHz-25GHz – BLE-2440MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Height cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4879.772	41.33	4.18	-1	44.51	Peak Max	V	142	193	74	-29.49	Pass
6177.435	40.1	4.71	-0.33	44.48	Peak Max	V	218	270	74	-29.52	Pass
1773.355	41.75	2.59	-3.91	40.44	Peak Max	V	170	135	74	-33.56	Pass
4879.772	28.11	4.18	-1	31.29	Average Max	V	142	193	54	-22.71	Pass
6177.435	27.08	4.71	-0.33	31.45	Average Max	V	218	270	54	-22.55	Pass
1773.355	29.31	2.59	-3.91	28	Average Max	V	170	135	54	-26	Pass

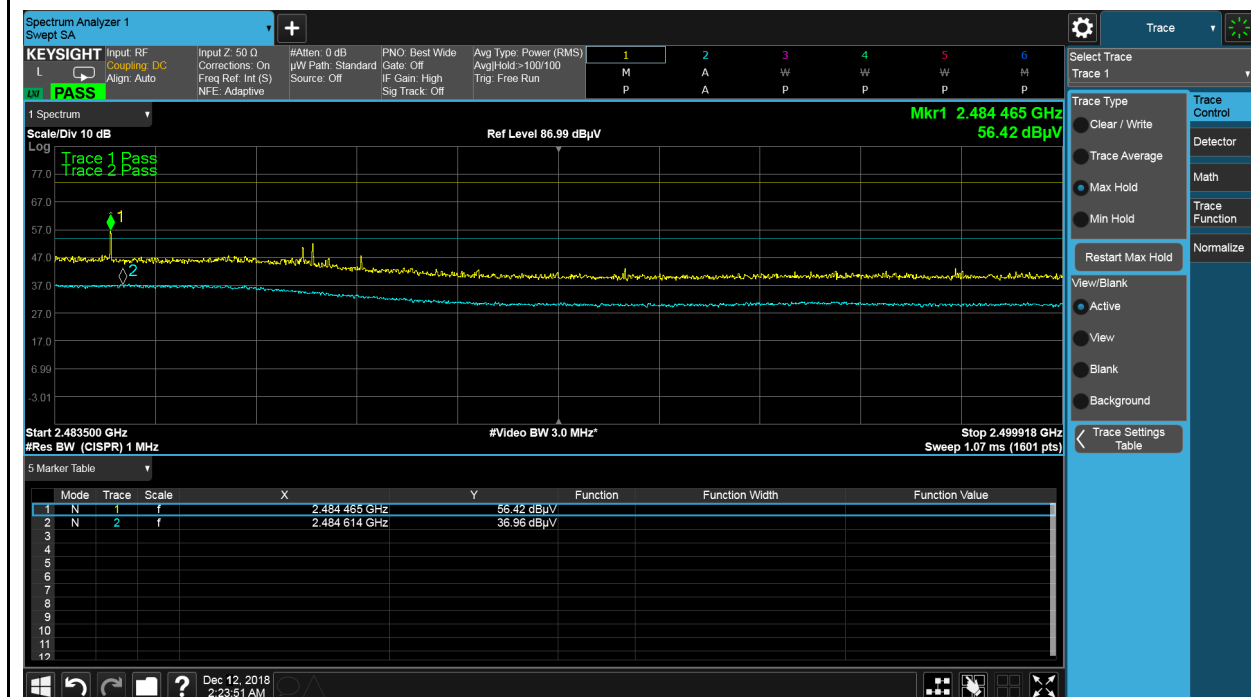
### Above 1GHz-25GHz – BLE –2480MHz

Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol (V/H)	Height cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
4959.385	40.34	4.25	-1.06	43.53	Peak Max	V	257	151	74	-30.47	Pass
9558.358	40.14	5.64	0.47	46.24	Peak Max	V	200	74	74	-27.76	Pass
4171.481	40.76	3.91	-0.78	43.9	Peak Max	V	187	196	74	-30.1	Pass
4959.385	27	4.25	-1.06	30.19	Average Max	V	257	151	54	-23.81	Pass
9558.358	27.36	5.64	0.47	33.47	Average Max	V	200	74	54	-20.53	Pass
4171.481	27.83	3.91	-0.78	30.96	Average Max	V	187	196	54	-23.04	Pass

## Restricted Band Test plot (BLE)



## Restricted Band BLE 2402MHz



















## Restricted Band BLE 2480MHz

## Annex A. TEST INSTRUMENT

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



## 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		<a href="#">A1</a> , <a href="#">A2</a> , <a href="#">A3</a> , <a href="#">A4</a> , <a href="#">B1</a> , <a href="#">B2</a> , <a href="#">B3</a> , <a href="#">B4</a> , 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		<b>Radio Equipment: EN45011:</b> EN ISO/IEC 17065
		<b>Electromagnetic Compatibility:</b> EN45011 – EN ISO/IEC 17065
Singapore iDA CB(Certification Body)	 	<a href="#">Phase I</a> , <a href="#">Phase II</a>
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		<b>(Phase II)</b> OFCA Foreign Certification Body for Radio and Telecom
		<b>(Phase I)</b> Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		<b>Radio:</b> Scope A – All Radio Standard Specification in Category I
		<b>Telecom:</b> CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p><b>Radio:</b> A1. Terminal equipment for purpose of calling</p> <p><b>Telecom:</b> B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p><b>EMI:</b> KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p><b>EMS:</b> 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</p> <p><b>Radio:</b> 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</p> <p><b>Telecom:</b> 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</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measurement</p>
Australia CAB Recognition		<p><b>EMC:</b> AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p> <p><b>Radiocommunications:</b> 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</p> <p><b>Telecommunications:</b> 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</p>
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