RF TEST REPORT



Report No.: FCC_IC_SL19040501-SEV-802 -BLE Supersede Report No.: None

Applicant	:	Xirgo Technologies, LLC	
Product Name	:	XT6264	
Model No.	:	XT6264	
Test Standard		47 CFR 15.247	
Test Stanuaru	•	RSS 247 Issue 2, February 2017	
		ANSI C63.10: 2013	
Test Method	:	RSS Gen Issue 5, April 2018	
		558074 D01 15.247 Meas Guidance v05r01	
FCC ID	:	GKM-XT6264	
IC ID	:	10281A-XT6264	
Dates of test	:	06/13/2019-06/20/2019	
Issue Date	:	06/20/2019	
Test Result	:	🖾 Pass 🛛 🗆 Fail	
Equipment complied with the	e specificatio	n [X]	
Equipment did not comply w	ith the specif	fication []	

This Test Report is Issued Under the Authority of:	
Crary Chou	Ch
Gary Chou	Chen Ge
Test Engineer	Engineer Reviewer

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



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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/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 & RED
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_SL19040501-SEV-802-BLE	None	Original	06/20/2019

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2 Executive Summary

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

<u>Company:</u> Xirgo Technologies, LLC <u>Product:</u> XT6264 <u>Model:</u> XT6264

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	Xirgo Technologies, LLC
Applicant Address	188 Camino Ruiz, Camarillo CA 93012
Manufacturer Name	Xirgo Technologies, LLC
Manufacturer Address	188 Camino Ruiz, Camarillo CA 93012

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
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

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6 EUT Information

6.1 EUT Description

Product Name	XT6264
Model No.	XT6264
Trade Name	Xirgo
Serial No.	MD191700019
Host Model No.	N/A
Input Power	24 Vac, 60Hz
Power Adapter Manu/Model	N/A
Power Adapter SN	N/A
Date of EUT received	06/08/2019
Equipment Class/ Category	DTS
Port/Connectors	N/A

6.2 Spec for BT Radio

Radio Type	Bluetooth
Operating Frequency	2402MHz-2480MHz
Modulation	GFSK
Channel Spacing	2 MHz
Antenna Type	CHIP
Antenna Gain	1.5 dBi
Antenna Connector Type	N/A

Туре	Channel No.	Frequency (MHz)	Power Setting
Bluetooth(BLE) 2402-2480MHz	0	2402	-15
	19	2440	-15
	39	2480	-15

6.3 EUT test modes/configuration Description

Mode	Note
Bluetooth	BLE (GFSK)

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7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

ltem	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	PP01L Latitude E5440	F1WPF12	Dell	-

7.2 Cabling Description

Name	Name Connection Start		Connection Stop		Length / shielding Info		Note
Name	From	I/O Port	To	I/O Port	Length (m)	Shielding	Note
USB-RS232	LAPTOP	USB	EUT	RS232	1	Unshielded	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	PUTTY	Set the EUT to transmit continuously in diferent test modes and channels

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Test Summary 8

Test Item	Test standard		Test Method/Procedure	Pass / Fail
Antenna Requirement	FCC	15.203	ANSI C63.10 - 2013	⊠ Pass
	IC	-	558074 D01 15.247 Meas. Guidance v05	□ N/A
AC Conducted Emissions Voltage	FCC	15.207	ANSI C63.10:2013	⊠ Pass
AC Conducted Emissions Voltage	IC	RSS Gen	RSS Gen Issue 5: 2018	□ N/A

DTS Band Requirement

Te	est Item		Test standard		Test Method/Procedure	Pass / Fail		
99% Occupied Bandwidth		-	-	-	-	⊠ Pass		
		IC	RSS Gen 6.6	IC	RSS Gen Issue 5: 2018	□ N/A		
6dB	6dB Bandwidth		15.247(a)(2)	FCC	ANSI C63.10:2013	⊠ Pass		
OUD	Bandwidth	IC	RSS247 (5.2.1)	IC	558074 D01 15.247 Meas Guidance v05r01	□ N/A		
	e and Radiated	FCC	15.247(d)	FCC	ANSI C63.10:2013	⊠ Pass		
Spuriou	is Emissions	IC	RSS247 (5.5)	IC	558074 D01 15.247 Meas Guidance v05r01	□ N/A		
Outrat Design		FCC	15.247(b)	FCC	ANSI C63.10:2013	⊠ Pass		
Outp	Output Power		RSS247 (5.4.4)	IC	558074 D01 15.247 Meas Guidance v05r01	□ N/A		
Receiver Spurious Emissions		IC	RSS Gen (4.8)	IC	RSS Gen Issue 5: 2018	□ Pass ⊠ N/A		
Antonno	Gain > 6 dBi	FCC	15.247(e)	FCC	-	Pass		
Antenna	Gain > 6 dBi	IC	-	IC	-	⊠ N/A		
Dowor Cr	a atral Danaity	FCC	15.247(e)	FCC	ANSI C63.10:2013	⊠ Pass		
Power 5p	pectral Density	IC	RSS247 (5.2.2)	IC	558074 D01 15.247 Meas Guidance v05r01	□ N/A		
		FCC	15.247(i)	FCC	-	□ Pass		
RF Exposure requirement		IC	RSS Gen(5.5)	IC	RSS Gen Issue 5: 2018	⊠ N/A		
Remark	 All measurement uncertainties do not take into consideration for all presented test results. 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. 							

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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					

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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	Antenna is permanently attached.	
Result	⊠ PASS □ FAIL	

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10.2 Conducted Emissions

Conducted Emission Limit

Frequency ranges	Limit (dBuV)				
(MHz)	QP	Average			
0.15 ~ 0.5	66 – 56	56 – 46			
0.5 ~ 5	56	46			
5 ~ 30	60	50			

Spec	Item Requirement	Applicable
RSS247(A8.1)	a) For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	
Test Setup	Vertical Ground Reference Plane 40cm EUT EUT B0cm UISN Horizontal Ground Reference Plane Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other u and other metal planes	nits
Procedure	 The EUT and supporting equipment were set up in accordance with the requirements of t top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B. The power supply for the EUT was fed through a 50Ω/50µH EUT LISN, connected to filte The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coax All other supporting equipment was powered separately from another main supply. 	ered mains.
Remark	N/A	
Result	⊠ Pass □ Fail	
Test Data 🛛 Yo	es 🗆 N/A	
Test Plot ⊠Ye	es (See below)	

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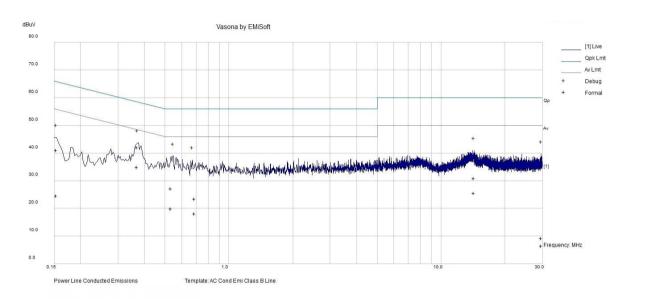
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Conducted Emission Test Results

Test specification:	Conducted Emissions					
Environmental Conditions:	Temp(°C):	21				
	Humidity (%): 42					
	Atmospheric(mbar):	1021	Result:	🛛 Pass		
Mains Power:	24Vac, 60Hz		Result.			
Tested by:	Gary Chou			🗆 Fail		
Test Date:	06/13/2019					
Remarks	Line			·		



Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line / Neutral	Limit (dBuV)	Margin (dB)	Pass /Fail
0.37	34.65	7.29	0.04	41.98	Quasi Peak	Line	58.53	-16.55	Pass
0.53	19.79	7.38	0.04	27.21	Quasi Peak	Line	56	-28.79	Pass
0.69	15.92	7.51	0.04	23.47	Quasi Peak	Line	56	-32.53	Pass
14.30	21.66	8.86	0.34	30.86	Quasi Peak	Line	60	-29.14	Pass
0.15	33.93	7.12	0.05	41.1	Quasi Peak	Line	65.83	-24.74	Pass
29.65	-0.45	9.05	0.61	9.21	Quasi Peak	Line	60	-50.79	Pass
0.37	27.53	7.29	0.04	34.86	Average	Line	48.53	-13.67	Pass
0.53	12.51	7.38	0.04	19.93	Average	Line	46	-26.07	Pass
0.69	10.61	7.51	0.04	18.15	Average	Line	46	-27.85	Pass
14.30	16.4	8.86	0.34	25.6	Average	Line	50	-24.4	Pass
0.15	17.39	7.12	0.05	24.56	Average	Line	55.83	-31.28	Pass
29.65	-3.28	9.05	0.61	6.38	Average	Line	50	-43.62	Pass

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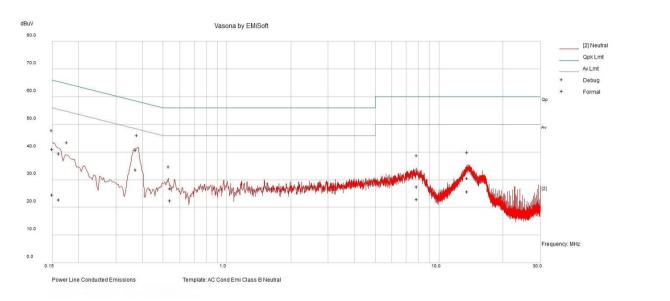
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Conducted Emission Test Results

Test specification:	Conducted Emissions						
Environmental Conditions:	Temp(°C):	Temp(°C): 21					
	Humidity (%):	42					
	Atmospheric(mbar):	1021	Decult	⊠ Pass			
Mains Power:	24Vac, 60Hz		Result:				
Tested by:	Gary Chou			🗆 Fail			
Test Date:	06/13/2019						
Remarks	Neutral						



Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line / Neutral	Limit (dBuV)	Margin (dB)	Pass /Fail
0.37	33.46	7.29	0.03	40.78	Quasi Peak	Neutral	58.47	-17.69	Pass
0.15	33.9	7.11	0.04	41.05	Quasi Peak	Neutral	65.98	-24.93	Pass
13.62	21.44	8.83	0.33	30.6	Quasi Peak	Neutral	60	-29.4	Pass
0.54	19.37	7.39	0.03	26.79	Quasi Peak	Neutral	56	-29.21	Pass
0.16	32.32	7.13	0.04	39.49	Quasi Peak	Neutral	65.35	-25.87	Pass
7.88	19.1	8.27	0.17	27.55	Quasi Peak	Neutral	60	-32.45	Pass
0.37	26.39	7.29	0.03	33.71	Average	Neutral	48.47	-14.76	Pass
0.15	17.34	7.11	0.04	24.49	Average	Neutral	55.98	-31.48	Pass
13.62	16.51	8.83	0.33	25.67	Average	Neutral	50	-24.33	Pass
0.54	15.13	7.39	0.03	22.54	Average	Neutral	46	-23.46	Pass
0.16	15.68	7.13	0.04	22.85	Average	Neutral	55.35	-32.5	Pass
7.88	14.48	8.27	0.17	22.92	Average	Neutral	50	-27.08	Pass

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10.3 6dB & 99% Bandwidth

Requirement(s):

Spec	Requirement			Applicable
§ 15.247 RSS247 (5.2.1)	6dB BW≥500KHz;			\boxtimes
RSS Gen 4.6.1	The transmitter shall be operated at its maximum conditions. The span of the analyzer shall be set process, including the emission skirts. The resolu of the selected span as is possible without being to 3 times the resolution bandwidth. Video average sampling detector shall be used given that a pear bandwidth than actual. The trace data points are terms. The recovered amplitude data points, beg running sum until 0.5% of the total is reached and repeated for the highest frequency data points. The two recorded frequencies is the occupied bar	to capture all prod ution bandwidth sh below 1%. The vid ging is not permitte k or peak hold ma recovered and dir inning at the lowes d that frequency re his frequency is re	lucts of the modulation all be set to as close to 1% deo bandwidth shall be set ed. Where practical, a y produce a wider ectly summed in linear st frequency, are placed in a ecorded. The process is	
Test Setup	Spectrum Analyzer		EUT	
Test Procedure	 558074 D01 DTS Meas Guidance v05r01, 8.2 E ANSI C63.10, 11.8 6dB Emission bandwidth measurement procedu Set RBW = 100 kHz. Set the video bandwidth (VBW) ≥ 3 x Detector = Peak. Trace mode = max hold. Sweep = auto couple. Allow the trace to stabilize. Measure the maximum width of the em two outermost amplitude points (upper the maximum level measured in the fur 	ure RBW. nission that is cons	ncies) that are attenuated by 6 on.	dB relative to
Test Date	06/15/2019	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	23°C 42% 1021mbar
Remark	N/A			
Result	🛛 Pass 🛛 Fail			
f est Data ⊠ Ye				
est Plot ⊠ Ye est was done b				
est was done b	y Gary Chou at RF test site.			

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6dB Bandwidth measurement result

Туре	Test mode	Freq (MHz)	СН	Result (kHz)	Limit (kHz)	Result
6dB BW	BT-LE	2402	Low	712.2	≥500	Pass
6dB BW	BT-LE	2440	Mid	741.4	≥500	Pass
6dB BW	BT-LE	2480	High	705.1	≥500	Pass

99% OBW measurement result for 2.4GHz

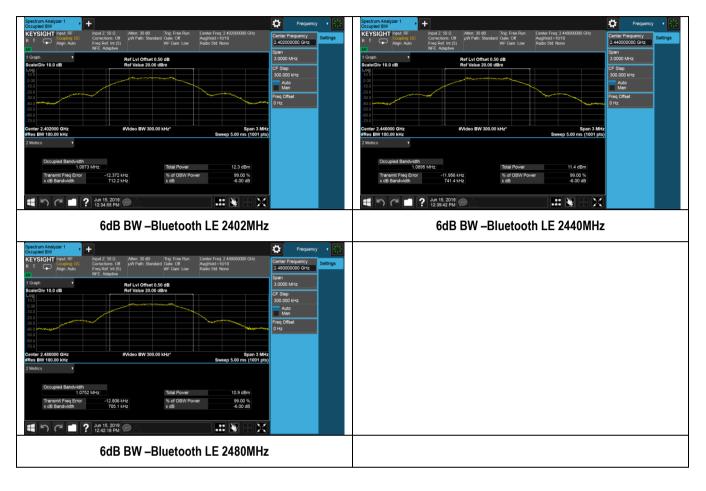
Туре	Test mode	Freq (MHz)	СН	Result (MHz)
99% OBW	BT-LE	2402	Low	1.0873
99% OBW	BT-LE	2440	Mid	1.0895
99% OBW	BT-LE	2480	High	1.0752

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6dB & 99% Bandwidth Test Plots



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10.4 Output Power (Bluetooth LE)

Requirement(s):

Spec	Item	Requirement			Applicable
§ 15.247 RSS247 (5.4.4)	f)	DSSS in 902-928MHz, 2400-2	483.5MHz, 5725-5850	MHz: ≤1 Watt	\boxtimes
Test Setup		Spectrum Analyzer		EUT	
Test Procedure	ANSI (<u>Measu</u> (a (b) (c) (c) (c) (c) (c) (c) (c) (c	 narrowband signals are not lessed in the system of the system o	zer (SA) the OBW /, not to exceed 1 MHz 2 × span / RBW. (Thi ost between frequency averaging), if available use a sweep trigger v or shall operate at max ansmits continuously (s entirely at the maxim acces in power averagi g the spectrum across nction, with band limits and power function, s	is gives bin-to-bin spacing \leq RI $_{\prime}$ bins.) e. Otherwise, use sample detect with the level set to enable trigg imum power control level for th (i.e., with no off intervals) or at hum power control level, then the ing (i.e., RMS) mode is the OBW of the signal using the s set equal to the OBW band e um the spectrum levels (in pow	tor mode. gering only on full the entire duration duty cycle ≥ 98 the trigger shall he instrument's dges. If the
Test Date	06/15/	2019	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	23°C 44% 1021mbar
Remark	-				
Result	⊠ Pa	ss 🗆 Fail			
est Data 🛛 Yes	6	□ N/A			
est Plot 🛛 Yes	(See be	low) 🖂 N/A			

Test was done by Gary Chou at RF test site.

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Output Power measurement result

Туре	Test mode	Freq (MHz)	СН	Conducted Power (dBm)	Limit (dBm)	Result
Output power	Bluetooth LE	2402	Low	6.47	30	Pass
Output power	Bluetooth LE	2440	Mid	5.69	30	Pass
Output power	Bluetooth LE	2480	High	5.07	30	Pass

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Test Plots

Spectrum Analyzer 1		🛟 Frequer	ncy Spectrum Analyzer 1 Swept SA	• +	🔅 Frequency 🔹
R T Coupling DC Co Align: Auto Fre	put Z: 50 Ω #Atten: 30 dB PNO: Best Wide orrections: Off jW Path: Standard Gale: Off seq Ref: Int (S) Source: Off IF Gain: Low E: Adaptive Sig Track: Off	Avg Type: Log-Power AvgHoid:>100/100 12:3:4:5:6 Center Frequency Trig: Free Run N WW WWW 2.402000000 GHz	Settings KEYSIGHT Input RF R T Coupling I Align: Auto	Input Z. 50 Ω #Atten: 30 dB PNO: Best Wid Corrections: Off µW Path: Standard Gate: Off Freq Ref. Int (S) Source: Off IF Gain: Low NFE: Adaptive Sig Track. Off	Avg Type: Log-Power AvgHold:=100100 Trig: Free Run P P P P P P P
1 Spectrum • Scale/Div 10 dB Log 10 0 0	Ref Lvi Offset 0.50 dB Ref Level 20.00 dBm	Mkr1 2.401 691 GHz 30000000 MHz 6.47 GBm Swept Span Zero Span 2.405 Support Stat Fing 2400500000 GHz	1 Spectrum	Ref Lvi Offset 0.50 dB Ref Level 20.00 dBm	Mkr1 2.440 228 GHz 3000000 MHz 5.69 dBm Full Span Full Span Start Fing 243500000 GHz
10 0 20 0 30 0 40 0 		Stop Fireq 2.40350000 GHz AUTO TUNE CP Step 300.000 Hz	-10.0		Stop Freq 2.44150000 GHz AUTO TUNE CF Stop 300.000 H+z
60 0 70 0 Center 2.402000 GHz Res BW 1.0 MHz	Wideo BW 3.0 MHz	Span 3.000 Mkr Auto Sweep - 5.30 ms (1001 pb) Urb	200 200 200 200 200 200 200 200 200 200	IVideo BW 3.0 MHz	Span 3.000 MHz Span 3.000 MHz XAvis Scale by by by by by by by by by by
	utput Power –Bluet	Dooth LE 2402MHz	450	? Jun 15, 2019 12:39:39 PM Output Power –Bluet	tooth LE 2440MHz
pectrum Analyzer 1 + wept SA EYSIGHT Input RF In	put Z 50 Ω #Atten: 30 dB PNO Best Wide	Avg Type Log-Power 12.3.4.5.6 Center Frequency	ncy Settings		
NF NF	rections: Off µW Path: Standard Gate: Off eq.Ref: Int (S) Source: Off IF Gain: Low FE: Adaptive Sig Track: Off	Тrig: Free Run	Cettings		
cale/Div 10 dB	Ref LvI Offset 0.50 dB Ref Level 20.00 dBm	Mkr1 2.479 712 GHz 5.07 dBm Swept Span Zero Span			
cale/Div 10 dB		0.00000000 mm 12			
1 Spectrum * SelarDN 10 dB Log 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Ref Level 20.00 dBm	5.07 dBm Sweg San Zeo Saka Full Span Start Freq 2.47500000 GHz 2.49500000 GHz CF Step CF Step CF Step Sou 000 Hz			
Caser Dry 10 d8	Ref Level 20.00 dBm	5.07 dBm Sungt Span Zer Span Full Span Start Fine 2.47550000 GHz 2.47550000 GHz 2.4150000 GHz 2.4150000 GHz 2.4150000 GHz CF Step			
EcularDiv 10 dB 10 0 10 0 1	Ref Level 20.00 dBm	5.07 dBm Sungt Span Parts Span Parts Span Parts Span Parts Span Parts Span Parts Span Parts Span Parts Span Stop Frieg 2.4 st socool GHz Parts Span Parts Span Stop Frieg 2.4 st socool GHz Parts Span Parts S			

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10.5 Band Edge

Requirement(s):

	Item	Requirement			Applicable
§ 15.247 RSS247(5.5)	d)	For non-restricted band, In any 10 which the spread spectrum or dig the radio frequency power that is least 20 dB or 30dB below that in contains the highest level of the d method on output power to be use in § 15.209 (a) is not required	itally modulated inter produced by the inter the 100 kHz bandwid esired power, detern	tional radiator is operating, ntional radiator shall be at dth within the band that nined by the measurement	
		□ 20 dB down	down		
Test Setup			(EUT	
		Spectrum Analyzer			
Test Procedure	ANSI (Edge measurement procedure Set the EUT to maximum power	t least 30 dB down fro The attunation shall	om the highest emission level w	
	3. 4.	Change modulation and channel	bandwidth then repe	at step 1 to 2.	
Test Date	-	Change modulation and channel Measured and record the results	bandwidth then repe	at step 1 to 2. Temperature Relative Humidity Atmospheric Pressure	22°C 46% 1020mbar
Test Date Remark	4	Change modulation and channel Measured and record the results	bandwidth then repe in the test report. Environmental	Temperature Relative Humidity	46%

Test Plot	🖂 Yes (See below)	□ N/A

Test was done by Gary Chou at RF test site.

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Band Edge Test Plots (Bluetooth LE)



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10.6 Peak Spectral Density

Requirement(s):

Spec	ltem	Requirement			Applicable
§ 15.247(e)	e)	DSSS: ≤8dBm/3KHz			\boxtimes
RSS247 (5.2.2)	f)	DSSS in hybrid sys with FH turned	d off: ≤8dBm/3KHz		
Test Setup		Spectrum Analyzer	(EUT	
Test Procedure		4 D01 DTS Meas Guidance v04, 10 spectral density measurement processes analyzer center frequency to Set the span to 1.5 times the DTS Set the RBW to: 3 kHz \leq RBW Set the VBW \geq 3 x RBW. Detector = Peak Sweep time = auto couple. Trace mode = Max Hold Allow trace to fully stabilize. Use the peak marker function to If measured value exceeds limit,	edure DTS channel center S bandwidth. ≪ 100 kHz. determine the maxim	frequency. um amplitude level within the	RBW.
Test Date	06/15/2	2019	Environmental condition	Temperature Relative Humidity Atmospheric Pressure	22°C 46% 1020mbar
Remark	-				
Result	⊠ Pa	ss 🗆 Fail			
est Data 🛛 🖂 Yes	3	□ N/A			
est Plot 🛛 🖂 Yes	(See be	low) 🗆 N/A			
est was done by	Gary C	hou at RF test site.			

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PSD measurement result (Bluetooth LE)

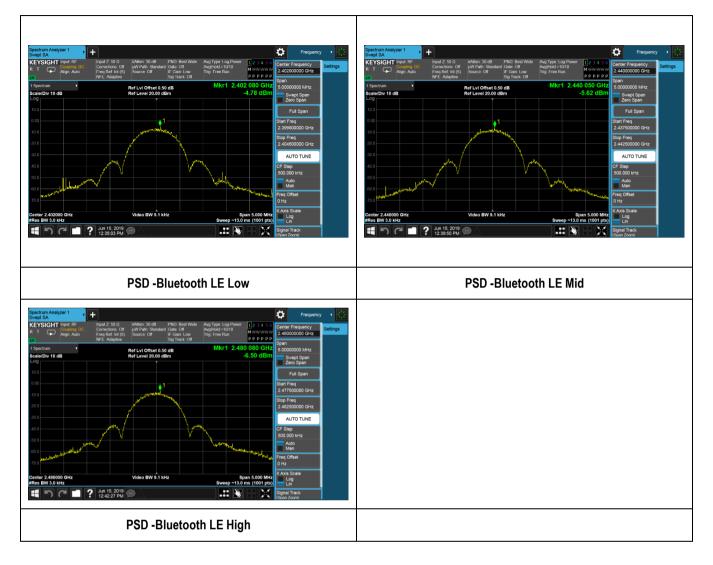
Туре	Test mode	Freq (MHz)	СН	Conducted PSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
PSD	Bluetooth LE	2402	Low	-4.78	≤8	Pass
PSD	Bluetooth LE	2440	Mid	-5.62	≤8	Pass
PSD	Bluetooth LE	2480	High	-6.50	≤8	Pass

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Test Plots (Bluetooth LE)



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10.7 Radiated Spurious Emissions in restricted band

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 20 dB down 20 dB down 20 dB down 21 dB down 22 dB down 23 dB down	
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	\boxtimes
Test Setup		Semi Anechoic Chamber Radio Absorbing Material	Sectrum Analyzer
Procedure	1. 2. 3.	 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 chara Maximization of the emissions, was carried out by rotating the EUT, changing the anter and adjusting the antenna height in the following manner: a. Vertical or horizontal polarisation (whichever gave the higher emission level 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 maximu An average measurement was then made for that frequency point. 	enna polarization over a full n. im emission.
	4.	measured.	
Remark).

Test Plot Yes (See below) 🗆 N/A

Test was done by Gary Chou at 10m chamber.

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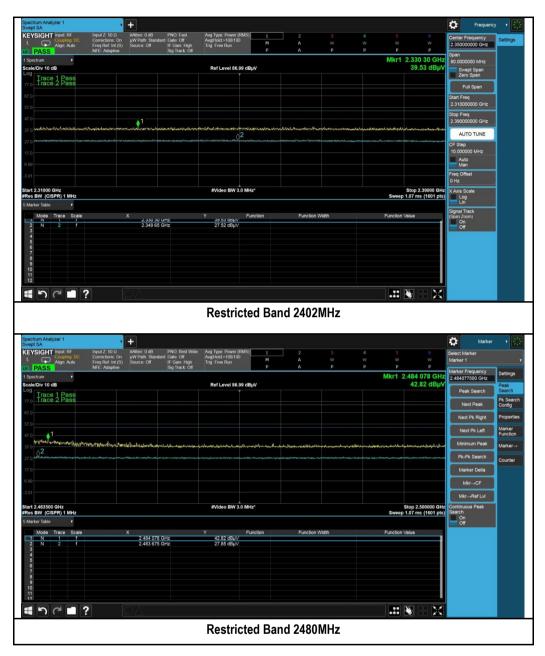
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Restricted Band Measurement Plots:



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10.8 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 low-power radio-frequency devices shall not specified in the following table and the level exceed the level of the fundamental emission edges Frequency range (MHz)	t exceed the field strength levels of any unwanted emissions shall not	
		30 - 88 88 - 216 216 960 Above 960	100 150 200 500	
Test Setup		Semi Anechoic Char Radio Absorbing Material	Antenna	peotrum Analyzer
Procedure	1. 2. 3. 4.	b. The EUT was then rotated to the	quency points obtained from the EUT cha out by rotating the EUT, changing the an ght in the following manner: (whichever gave the higher emission leve direction that gave the maximum emission idjusted to the height that gave the maxim e for that frequency point.	tenna el over a full n. um emission.
Remark		JT was scanned up to 1GHz. Both horizontal nly the worst case.	and vertical polarities were investigated.	The results
Result	⊠ Pas	ss 🗆 Fail		
Test Data ⊠ Yes	(See bel	,		

Test was done by Gary Chou at 10m chamber.

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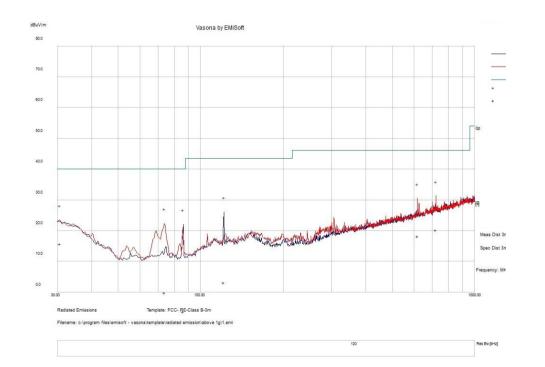
t



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Radiated Emission Test Results (Below 1GHz)

Test specification	below 1GHz			
	Temp (°C):	26.1		
Environmental Conditions:	Humidity (%)	Humidity (%) 47.5		
	Atmospheric (mbar):			
Mains Power:	24Vac, 60Hz	Result	Pass	
Tested by:	Gary Chou			
Test Date:	05/13/2019		1	
Remarks:	Bluetooth LE TX 2440MHz			



Quasi Max Measurement

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
720.972438	20.16	15.19	-15.09	20.26	Quasi Max	Н	102	105	46	-25.74	Pass
616.83025	20.29	14.57	-16.58	18.28	Quasi Max	Н	183	205	46	-27.72	Pass
30.627813	17.32	11.13	-12.69	15.76	Quasi Max	Н	203	303	40	-24.24	Pass
121.358438	13.71	12.08	-22.6	3.19	Quasi Max	Н	344	15	43.5	-40.31	Pass
73.7075	15.75	11.61	-27.42	-0.06	Quasi Max	V	163	36	40	-40.06	Pass
86.250625	9.7	11.75	-27.7	-6.26	Quasi Max	Н	226	9	40	-46.26	Pass

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

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10.9 Radiated Spurious Emissions between 1GHz – 25GHz

Requirement(s):

	Item Requirement	Applicable
47CFR§15.247(d), RSS210(A8.5)	 a) For non-restricted band, In any 100 kHz bandwidth outside the frequency band i 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	,
	b) or restricted band, emission must also comply with the radiated emission limits specified in 15.209	
Test Setup	Semi Anechoic Chamber Radio Absorbing Material EUT 1.5m Ground Plane	Spectrum Analyzer
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 of 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 lege 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. 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 measured. 	aracterisation. ntenna polarization vel over a full ion. mum emission.
Remark	The EUT was scanned up to 26GHz. Both horizontal and vertical polarities were investigat show only the worst case.	ed. The results
Result	⊠ Pass □ Fail	
Test Data 🛛 🖾 Yes (Se	e below) □ N/A e below) ⊠ N/A	



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Radiated Emission Test Results (Above 1GHz)

BLE – 2402MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
7207.5175	40.9	5.15	-0.45	45.59	Peak Max	Н	127	236	74	-28.41	Pass
9604.7525	39.88	5.6	0.5	45.98	Peak Max	Н	105	296	74	-28.02	Pass
4802.74	41.22	4.1	-0.93	44.4	Peak Max	V	122	214	74	-29.6	Pass
7207.5175	27	5.15	-0.45	31.69	Average Max	Н	127	236	54	-22.31	Pass
9604.7525	26.18	5.6	0.5	32.28	Average Max	V	153	49	54	-21.72	Pass
4802.74	27.7	4.1	-0.93	30.87	Average Max	V	122	214	54	-23.13	Pass

BLE – 2440MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
7319.2325	40.4	5.15	-0.49	45.06	Peak Max	V	145	221	74	-28.94	Pass
9761.9475	40.06	5.5	0.81	46.37	Peak Max	V	138	20	74	-27.63	Pass
4878.28	41.61	4.17	-0.99	44.79	Peak Max	V	100	241	74	-29.21	Pass
7319.2325	26.65	5.15	-0.49	31.31	Average Max	Н	123	251	54	-22.69	Pass
9761.9475	26.21	5.5	0.81	32.52	Average Max	V	138	20	54	-21.48	Pass
4878.28	28.02	4.17	-0.99	31.2	Average Max	V	100	241	54	-22.8	Pass

BLE – 2480MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	, , ,		Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
7438.9425	41.22	5.14	-0.53	45.83	Peak Max	V	125	255	74	-28.17	Pass
9921.3275	39.59	5.79	1.18	46.57	Peak Max	Н	111	243	74	-27.43	Pass
4958.4725	40.37	4.25	-1.06	43.56	Peak Max	Н	189	227	74	-30.44	Pass
7438.9425	26.68	5.14	-0.53	31.29	Average Max	V	125	255	54	-22.71	Pass
9921.3275	26.03	5.79	1.18	33.01	Average Max	V	123	256	54	-21	Pass
4958.4725	26.78	4.25	-1.06	29.96	Average Max	V	127	12	54	-24.04	Pass

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Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Radiated Emissions		I		L		
50GHz Spectrum Analyzer	N9030B (PXA)	MY57140374	7/22/2018	1 Year	7/22/2019	•
Hybrid Antenna (30MHz - 6GHz)	JB6	A111717	3/9/2019	1 Year	3/9/2020	>
Pre-Amplifier (1GHz - 26.5GHz)	8449B	3008A00715	5/16/2019	1 Year	5/16/2020	>
Horn Antenna	3115	10SL0059	01/26/2017	2 Year	01/26/2020	>
RF Pre-Amplifier (9kHz - 6.5GHz)	LPA-6-30	11170601	7/23/2018	1 Year	7/23/2019	>
RF Conducted Emission Measurement						
EMI Test Receiver	ESIB 40	100179	08/27/2018	1 Year	08/28/2019	
Transient Limiter (9 kHz - 100 MHz)	EM-7600-5	106	12/30/2018	1 Year	12/31/2019	
LISN	3816/2NM	214372	01/09/2019	1 Year	01/10/2020	
RF Conducted Measurement						
Agilent Spectrum Analyzer	N9010A	10SL0219	1/18/2018	1 Year	1/08/2020	>

Test Software Version

Test Item	Vendor	Software	Version
Radiated Emission	EMISoft	EMISoft Vasona	V5.0
Conducted Emission	EMISoft	EMISoft Vasona	V5.0

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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	R	Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
	R	Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	đđ	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
	Ā	(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB	Ā	Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

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Japan Recognized Certification Body Designation	ß	 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	Ā	LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08	
Taiwan BSMI CAB Recognition	A	CNS 13438	
Japan VCCI	ħ	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	
		Radio communications: 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	K	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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