Project 17474-15

WiseWear Socialite

Wireless Certification Report

Prepared for:

Jason Wilson WiseWear 5828 Sebastian Place Suite 102 San Antonio, TX 78249

By

Professional Testing (EMI), Inc. 1601 North A.W. Grimes Blvd., Suite B Round Rock, Texas 78665

8 Dec 2015

Reviewed by

Larry Finn Chief Technical Officer Written by

Eric Lifsey EMC Engineer

Revision History

Revision Number	Description	Date
00	Draft for client and internal review.	20 Nov 2015
01	Revised with IDs added; charger info added.	23 Nov 2015
02	Revised model.	8 Dec 2015

Corrections:

Any mention of Socialite Wearable Fitness Device refers to the model Socialite device as tested.

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Compliance Certificate

Applicant	Device & Test Identification	
WiseWear (Jason Wilson)	FCC ID:	2AGNRSOCLTE
5828 Sebastian Place	Industry Canada ID:	20912-SOCLTE
Suite 102	Model(s):	Socialite
San Antonio, TX 78249		
Certificate Date: 8 Dec 2015	Laboratory Project ID:	17474-15

The device named above was tested utilizing the following documents and found to be in compliance with the required criteria:

Requirement	Reference	Detail
FCC 47 CFR Part 15 C	15.247	Operation within the bands 902-928 MHz, <u>2400-2483.5 MHz</u> , and 5725-5850 MHz.
FCC 47 CFR Part 15 C	15.209	Radiated emission limits; general requirements.
FCC 47 CFR Part 15 C	15.107, 15.207	Conducted emission limits.
FCC 47 CFR Part 15 C	15.205	Restricted Bands of Operation
KDB 558074 D01	DR01	DTS Measurement Guidance v03r02
KDB 412172	D01	Guidelines for Determining the ERP and EIRP of an RF Transmitting System
OET Bulletin 65*	Edition 97-01, and Supplement C, Ed. 01-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields
RSS-247	Issue 1	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence- Exempt Local Area Network (LE-LAN) Devices
RSS-Gen	Issue 4	General Requirements and Information for the Certification of Radio Apparatus
RSS-102	Issue 4	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

^{*}MPE is reported separately from this document. **Corresponding RSS references are listed in the body of the report.

I, Eric Lifsey, for Professional Testing (EMI), Inc., being familiar with the above requirements and test procedures have reviewed the test setup, measured data, and this report. I believe them to be true and accurate.



This report has been reviewed and accepted by the Applicant. The undersigned is responsible for ensuring that this device will continue to comply with the requirements listed above.

Representative of Applicant	

1.0 Introduction

1.1 Scope

This report describes the extent to which the equipment under test (EUT) conformed to the intentional radiator requirements of the United States and Canada.

Professional Testing (EMI), Inc., (PTI) follows the guidelines of National Institute of Standards and Technology (NIST) for all uncertainty calculations, estimates, and expressions thereof for electromagnetic compatibility testing.

1.2 EUT Description

Table 1.2.1: Equipment Under Test			
Manufacturer / Model Serial # Description			
WiseWear / Socialite	1	2400-2483.5 MHz FHSS transceiver; using Bluetooth Low Energy radio protocols.	

Table 1.2.2: Support Equipment			
Manufacturer / Model	Serial #	Description	
Hong Kong Broadens Technology Development co., LTD / BX-0501000	None	USB Charger	

The EUT designed as a wearable fitness monitoring device embedded into a metal bracelet.

The EUT measures approximately 14 cm x 6 cm x 68 cm and is curved to fit around a limb. It is powered by 3.6 VDC from a Lithium battery recharged by a common USB power source.

1.3 EUT Operation

The EUT was exercised in a manner consistent with normal operations.

The EUT was tested as a DTS device as its bandwidth satisfies the DTS minimum bandwidth requirements. In the final application it will be also hopping per the Bluetooth protocol.

1.4 Modifications to Equipment

No modifications were made to the EUT during the performance of the test program.

1.5 Test Site

Measurements were made at the PTI semi-anechoic facility designated Site 45 (FCC 459644, IC 3036B-1) in Austin, Texas. The site is registered with the FCC under Section 2.948 and Industry Canada per RSS-GEN, and is subsequently confirmed by laboratory accreditation (NVLAP). The test site is located at 11400 Burnet Road, Austin, Texas 78758, while the main office is located at 1601 North A.W. Grimes Boulevard, Suite B, Round Rock, Texas, 78665.

1.6 Radiated Measurements

Radiated levels are determined as follows:

Raw Measured Level + Antenna Factor + Cable Losses - Amplifier Gain = Corrected Level

Conducted RF levels are determined as follows:

Conducted mains levels are determined as follows:

Raw Measured Level + LISN Factor + Cable/Filter/Limiter Losses = Corrected Level

Additionally, measurement distance extrapolation factors are applied and documented where used.

1.7 Applicable Documents and Clauses

Table 1.7.1: Applicable Documents		
Document	Title	
47 CFR	Part 15 – Radio Frequency Devices	
47 CFK	Subpart C -Intentional Radiators	
DCC 247 I 4	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-	
RSS-247 Issue 1	Exempt Local Area Network (LE-LAN) Devices	
RSS-Gen Issue 4	General Requirements and Information for the Certification of Radio Apparatus	
ANGLOGA 4 2000	American National Standard for Methods of Measurement of Radio-Noise Emissions	
ANSI C63.4 2009	from Low Voltage Electrical and Electronic Equipment	

Table 1.7.2: Applicable Clauses				
Parameter	FCC Part 15	IC RSS References		
raiailletei	Rule Paragraphs	ic K33 Kererences		
Transmitter Characteristics	15.247	RSS-247 5.2 (DTS) & 5.4, RSS-Gen		
Bandwidth	15.247(a)(1), 2.1049, KDB 558074 D01	RSS-Gen 4.6		
Spurious Emission	15.247, 15.209, 15.205	RSS-247 5.5, RSS-GEN 4.9, 4.10		
Band Edge	15.247, 15.205	RSS-247 5.5, RSS-Gen 4.9		
Antenna Requirement	15.203	RSS-Gen 8.3		
Conducted Emissions, Mains	15.207	RSS-Gen 8.8		

2.0 Fundamental Power

2.1 Test Procedure

Modulation is enabled and peak power is measured using radiated means. The transmitter hopping sequence is disabled to operate on a single channel for the measurement.

2.2 Test Criteria

47 CFR (USA) // IC (Canada)				
Section Reference	Section Reference Parameter			
	Fundamental Power			
15.247(a)(3) //	Conducted Limits	11 Nov 2015		
RSS-247 5.2	1 W	11 100 2013		
	Limit Restated as Field: 125.23 dBμV/m @ 3 m			

2.3 Test Results

The EUT was measured for radiated power in three orthogonal orientations. The orientation with maximum emission was selected for the subsequent measurements.

Table 2.3.1 Power, Peak, Radiated				
Frequency MHz	Measured Peak Power dBμV/m @ 10 m Vertical Polarity	Measured Peak Power dBμV/m @ 10 m Horizontal Polarity	Maximum Measured Peak Power Restated as EIRP dBm	
2402	71.4	69.7	-13.4	
2440	79.7	73.6	-5.07	
2480	75.9	74.1	-8.87	

Measured in 1 MHz RBW, 3 MHz VBW.

The EUT was found to be in compliance with the applicable criteria. Fundamental field strength was extracted from measurements during spurious tests with an unmodulated carrier.

3.0 Power Spectral Density

3.1 Test Procedure

A spectrum analyzer is either connected directly to the EUT or used by radiated means to measure the fundamental emission. It is adjusted to measure the power spectral density in the prescribed resolution bandwidth.

3.2 Test Criteria

47 CFR (USA) // IC (Canada)			
Section Reference	Parameter	Date	
15.247(e) // RSS-247, 5.2	Power Spectral Density, Conducted Limit: 8 dBm / 3 kHz	19 Nov 2015	

3.3 Test Results

The fundamental peak power measured substantially below the 8 dBm limit for this test; the EUT satisfies the criteria without additional measurement.

4.0 Occupied Bandwidth

4.1 Test Procedure

Bandwidth is measured by radiated means. A recording of the results is included.

4.2 Test Criteria

47 CFR (USA) // IC (Canada)							
Section Reference	Parameter	Date(s)					
14.247(a)(2), 2.1049, KDB 558074 D01 // RSS-Gen 4.6	Bandwidth, 6 dB, 20 dB	12 Nov 2015					

4.3 Test Results

The bandwidth measurement is used to verify DTS characteristics and/or for general reporting for agency application.

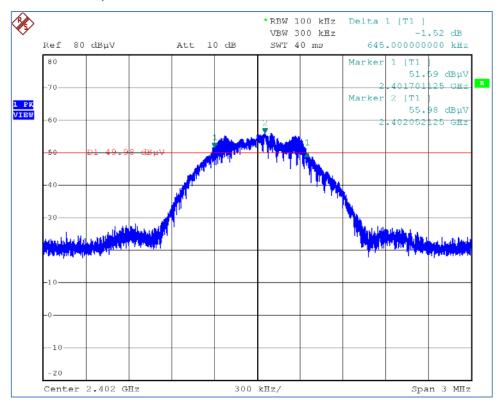
The EUT was found to be in compliance with applicable requirements.

Table 5.3.1 Band	dwidth 6 dB, Mini	mum 500 kHz in 1	LOO kHz RBW
Low Channel	Mid Channel	High Channel	Reported
Measured BW	Measured BW	Measured BW	Minimum BW
(kHz)	(kHz)	(kHz)	(kHz)
645.0	666.0	633.0	633.0

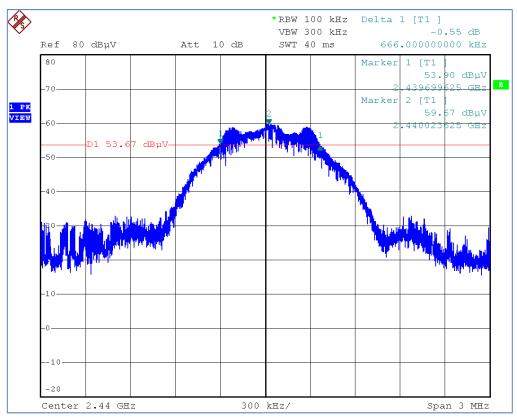
Table 5.3.2 Band	dwidth 20 dB, Me	asure and Report	
Low Channel	Mid Channel	High Channel	Reported
Measured BW	Measured BW	Measured BW	Maximum BW
(kHz)	(kHz)	(kHz)	(kHz)
1020	1020	1014	1020

Plotted measurements appear on the following pages.

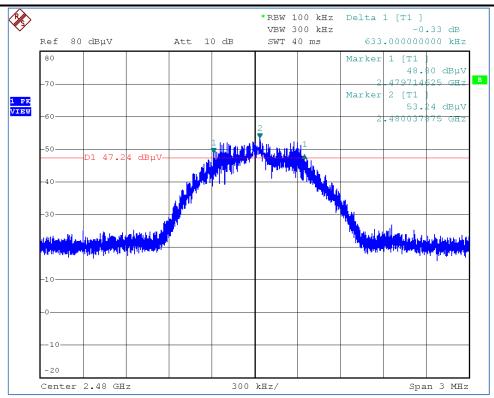
4.3.1 Bandwidth Plots, 6 dB



6 dB, Low Channel

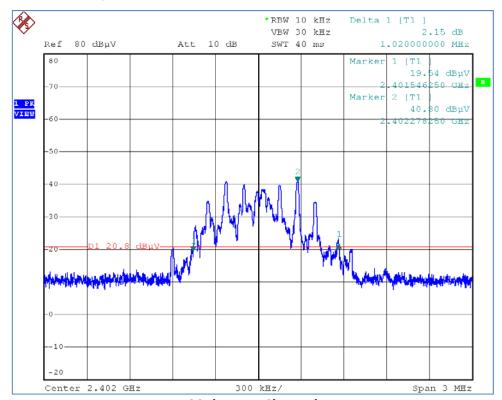


6 dB, Middle Channel

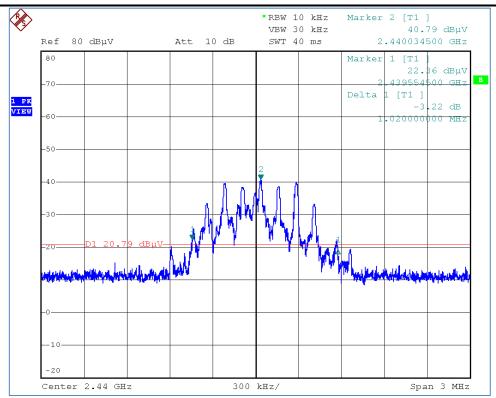


6 dB, High Channel

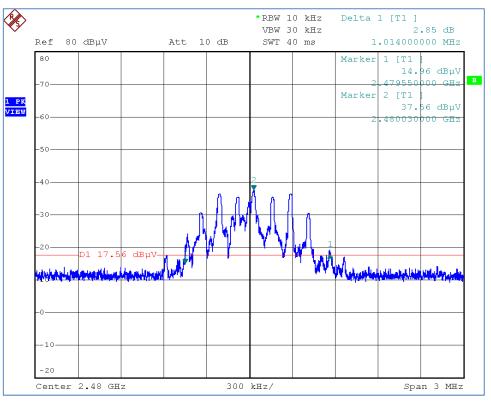
4.3.2 Bandwidth Plots, 20 dB



20 dB, Low Channel



20 dB, Middle Channel



20 dB, High Channel

5.0 Band Edge

5.1 Test Procedure

EUT is placed into normal transmit operation on the nearest band edge channel. The spectrum analyzer is approximately centered on the band edge frequency with span sufficient to include the peak of the adjacent fundamental signal. Measurement includes at least two standard bandwidths from the respective band edge. If required, the band-edge marker-delta method of C63.4 is utilized.

5.2 Test Criteria

47 CFR (USA) // IC (Canada)		
Section Reference	Parameter	Date(s)
15.247, 15.205 //	Unwanted Emissions Adjacent to Authorized	15 Nov 2015
RSS-247 5.5, RSS-Gen 4.9	Band, Radiated	15 Nov 2015

5.3 Test Results

Measurements included more than 2 standard bandwidths (standard bandwidth 1 MHz) from the band edges to provide a clear view of the fundamental and the declining emission levels. Peak detection with max-hold was employed.

Peak detection of emissions at both band edges were below the general emission limits for average limit levels.

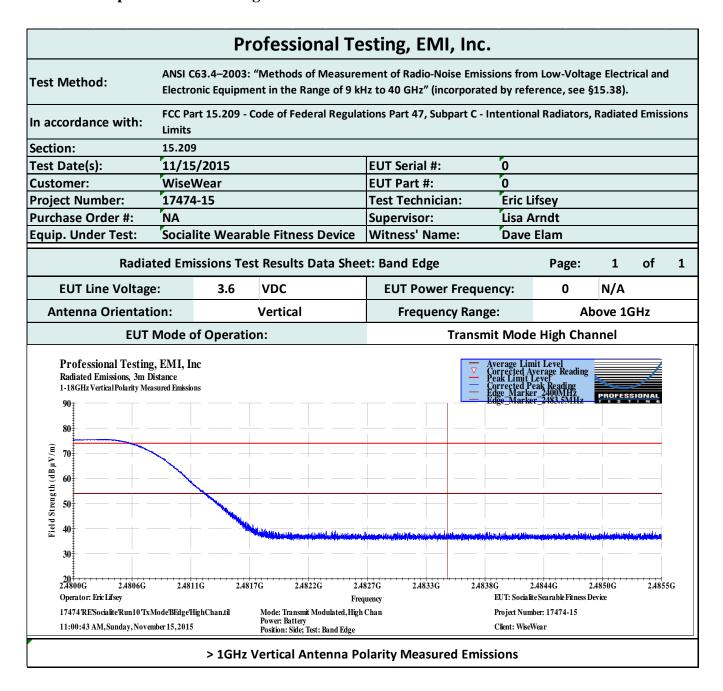
The EUT satisfied the criteria. Plotted results appears on the following pages.

5.3.1 Low Channel Band Edge

		Professional Te	esting, EMI, Inc.				
Test Method:			ment of Radio-Noise Emissi Hz to 40 GHz" (incorporated		•	rical and	d
n accordance with:	FCC Part 15.20 Limits	9 - Code of Federal Regula	tions Part 47, Subpart C - In	tentional Radiators	, Radiate	d Emis	sion
Section:	15.209						
Test Date(s):	11/15/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite We	arable Fitness Device	Witness' Name:	Dave Elam			
		Test Results Data Shee		Page:	1	of	1
EUT Line Voltage	2: 3.6	VDC	EUT Power Frequer	ncy: 0	N/A		
Antenna Orientati	on:	Vertical	Frequency Range	: A	bove 10	GHz	
CIIT	Mode of Oper	ation:		t Mode Low Cha	nnol		
Radiated Emissions, 3m D 1-18GHz Vertical Polarity Mea 90 80 (III) 70 60 40 40	sured Emissions		Co Ed	ak Limit Level rected Peak Reading ge_Marker_2400MHz	PROFES	SIONAL	
30	A transfer to the state of the		A popular and the popular and				
	2.3988G	2.3992G 2.3996G 2.4	1000G 2.4004G 2.4008G	G 2.4012G EUT: Socialite Searable Fitness	2.4016G	2.402	20G

					W	/iseWea	ar – So	cialit
	P	Professional Te	sting, EMI, Inc.					
Test Method:			ment of Radio-Noise Emissi Iz to 40 GHz" (incorporated			•	ical and	l
In accordance with:	FCC Part 15.209 Limits	- Code of Federal Regula	tions Part 47, Subpart C - In	ntentiona	l Radiators,	Radiate	d Emiss	ions
Section:	15.209							
Test Date(s):	11/15/2015		EUT Serial #:	0				
Customer:	WiseWear		EUT Part #:	0				
Project Number:	17474-15		Test Technician:	Eric Lif	fsey			
Purchase Order #:	NA		Supervisor:	Lisa Aı	rndt			
Equip. Under Test:	Socialite Wea	rable Fitness Device	Witness' Name:	Dave I	Elam			
Radia	ted Emissions T	est Results Data Shee	et: Band Edge		Page:	1	of	1
EUT Line Voltage	e: 3.6	VDC	EUT Power Freque	ncy:	0	N/A		
Antenna Orientati	on:	Horizontal	Frequency Range	2:	Ak	ove 10	Hz	
FUT	Mode of Operat	tion:	Transmi	it Mode	Low Cha	nnel		
Professional Testing Radiated Emissions, 3m D 1-18GHz Horizontal Polarity N 80 70 80 60	istance		$\begin{vmatrix} - & \mathbf{P}_{\mathbf{C}} \\ - & \mathbf{C} \end{vmatrix}$	verage Limi orrected Avo eak Limit Lo orrected Per dge_Marker	ak Reading	PROFESS	SIONAL	
30 30		All the state of t						
23980G 23984G Operator: Eric Lifsey 17474 RESocialite Run09 Tx 10:49:13 AM, Sunday, Nover	Mode'BEdge'LowChan.til		Chan		Searable Fitness D er: 17474-15	.4016G revice	2.4020)G
	> 1GHz	Horizontal Antenna F	Polarity Measured Emis	ssions				

5.3.2 Top Channel Band Edge



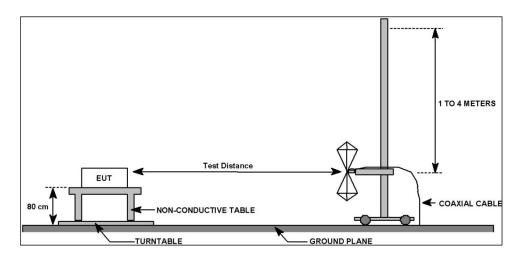
					wisev	Vear – So	Cidii
	F	Professional Te	esting, EMI, Inc.	•			
Test Method:			ment of Radio-Noise Emiss Hz to 40 GHz" (incorporate				ł
In accordance with:	FCC Part 15.209 Limits	- Code of Federal Regula	tions Part 47, Subpart C - I	ntentional Ra	diators, Radi	ated Emiss	ions
Section:	15.209						
Test Date(s):	11/15/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey	/		
Purchase Order #:	NA		Supervisor:	Lisa Arnd	t		
Equip. Under Test:	Socialite Wea	rable Fitness Device	Witness' Name:	Dave Elar	m		
Radia	ted Emissions T	est Results Data She	et: Band Edge	P	age: 1	L of	1
EUT Line Voltage	e: 3.6	VDC	EUT Power Freque	ency:	0 N/	Ά	
Antenna Orientati	on:	Horizontal	Frequency Rang	e:	Above	1GHz	
EUT	Mode of Opera	tion:	Transm	it Mode Hig	gh Channel		
Professional Testing Radiated Emissions, 3m D 1-18GHz Horizontal Polarity M 90 80 (III / An III / An I	istance			werage Limit Lever orrected Average eak Limit Lever orrected Peak dage Marker 240 dage Marker 240 dage Marker 248	eading	ESSIONAL	
20 2A800G 2.A806G Operator: Eric Lifsey 17474 RESocialite Run 10 TxM 11:02:38 AM, Sunday, Novem	ModeBEdgeHighChan.til		1827G 2.4833G 2.4839 quency of Chan	8G 2.4844C EUT: Socialite Seara Project Number: 17- Client: WiseWear	ble Fitness Device	2.485:	5G

6.0 Radiated Spurious Emissions, Receive Mode

6.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the ground plane. The EUT was centered on a rotating turntable. Measurements below 1 GHz were taken at a test distance of 10 meters from the measurement antenna. Above 1 GHz the measurement distance was 3 meters.

Spurious emissions below 1 GHz were measured with quasi-peak detection with a resolution bandwidth of 120 kHz. Above 1 GHz peak measurements were taken and average measured where appropriate and 1 MHz resolution bandwidth. A diagram showing the test setup appears below.



6.2 Test Criteria

47 CFR (USA) // IC (Canada)							
Section Reference	Parameter	Date(s)					
15.247, 15.209 // RSS-247 5.5, RSS-Gen 4.9 & 4.10	Field Strength of Radiated Spurious/Harmonic Emissions Receive Mode	11 Nov 2015					

6.3 Test Results

The EUT was tuned to the middle channel and placed in receive mode.

The EUT satisfied the criteria. Recorded data is presented below.

Table 6.3.	1: Radiate	d Spuri	ous	Emission	s, Receive I	Mode, Beld	ow 1 GHz,	Verti	cal Po	larit	У		
				Profess	sional Te	sting, El	MI, Inc.						
Test Metho	od:				ds of Measurer e Range of 9 kH					_			d
In accordar	ice with:	FCC Part Limits	15.20	9 - Code of F	ederal Regulat	tions Part 47,	Subpart C - Int	tention	al Radia	tors, F	Radiate	ed Emis	sions
Section:		15.209											
Test Date(s	5):	11/10/				EUT Serial	#:	0					
Customer:		WiseW				EUT Part #:		0					
Project Nui		17474-	15			Test Techn		Eric L					
Purchase O	rder #:	NA				Supervisor		Lisa A					
Equip. Und	er Test:	Socialit	e We	arable Fitr	ess Device	Witness' N	ame:	Dave	Elam				
	F	Radiated	l Emi	ssions Test	Results Data	a Sheet			Pag	e:	1	of	1
EUT Li	ne Voltage:		3.6	VDC		EUT Pov	ver Frequen	су:	0		N/A		
Antenna	Orientatio	n:		Vertic	al	Frequ	ency Range	:		30MI	Hz to	1GHz	
	EUT N	/lode of	Oper	ation:			Receive N	/lode (Center	Char	nel		
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degree	on	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit (dBµ		Mai (d	_	Test F	Results
898.273	10	274		3.79	Quasi-peak	21.4	26.631	35	5.6	-9	.0	Pa	iss
Radiated	Emissions, 10m Di	istance		100M	to block and the second	n i i i i i i i i i i i i i i i i i i i	- Pe	ak Limt Trected P rified Lov RF Verifi	Limit Leve usas-peak Level Level eak Value **PRF OP reafion Lin	- 3	PROFES	SIGNAL	,
Operator: 17474'RE	Eric Lifsey Socialite'Run08'RecM PM, Wednesday, Nove			Mode: Rec Power: Ba	eive (Advertising) ttery	uency	P		te Searable F iber: 17474- Wear		rice	-	
			≤ 1G	Power: Bar Position: S	ttery	olarity Meas	(Client: Wise		15			

Гable 6.3.	2: Radiate	d Spuriou	ıs Emission	s, Receive I	Mode, Belo	ow 1 GHz,	Horizonta	l Polarity	<u> </u>
			Profes	sional Te	sting, El	MI, Inc.			
Test Metho	d:			ods of Measurer e Range of 9 kH				_	
In accordar	nce with:	FCC Part 15 Limits	.209 - Code of	Federal Regulat	tions Part 47,	Subpart C - Int	entional Rad	iators, Radiato	ed Emissions
Section:		15.209							
Test Date(s	s):	11/10/20			EUT Serial		0		
Customer:		WiseWea	r		EUT Part #		0		
Project Nur		17474-15			Test Techn		Eric Lifsey		
Purchase O		NA			Supervisor		Lisa Arndt		
Equip. Und	er Test:	Socialite \	Nearable Fit	ness Device	Witness' N	ame:	Dave Elam		
	F	Radiated E	missions Tes	t Results Data	a Sheet		Pa	ige: 1	of 1
EUT Li	ne Voltage:		3.6 VDC		EUT Pov	ver Frequen	cy:	0 N/A	
Antenna	orientation	n:	Horizoi	ntal	Frequ	ency Range:	i	30MHz to	1GHz
	EUT N	Node of Op	eration:			Receive N	/lode Cente	r Channel	
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBμV)	Corrected Level (dBµV/m)	Limit Level (dBµV/m)	Margin (dB)	Test Resul
928.895	10	246	3.59	Quasi-peak	21.1	26.086	35.6	-9.5	Pass
Radiated 30MHz-10 60 T	Emissions, 10m Di	istance ity Measured Emissi	ons — — — — — — — — — — — — — — — — — — —	a seek to to place of a source half and a land		— Qui — Per — Coi → Ver — X LP	KE VEHICALOR I	Readin Profes	SIONAL
_	All the second	And the second	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN	All his year had a surprise of the state of					
30M		+ + +	100M		<u> </u>	-			1G
Operator: 1 17474'RE	Eric Lifsey Socialite'Run08'RecM	lode.til	Mode: Re Power: Ba	ceive (Advertising)	uency		UT: Socialite Searabl roject Number: 1747		

Table 6.3.3: Radiated Spurious Emissions, Receive Mode, Above 1 GHz, Vertical Polarity

abie 6.3.	3: Kadiate	a Spuriou	12 EIIII22IOII	s, Receive i	Mode, Abo	ove 1 GHz,	verti	cai PC	piarit	<u>y</u>		
			Profes	sional Te	sting, El	MI, Inc.						
Test Metho	od:		-2003: "Metho quipment in th						_			d
n accorda	nce with:	FCC Part 15 Limits	.209 - Code of I	Federal Regula	tions Part 47, S	Subpart C - Int	entiona	al Radia	itors, R	adiate	ed Emis	sions
Section:		15.209										
Test Date(s):	11/10/20			EUT Serial	#:	0					
Customer:		WiseWea	<u>r </u>		EUT Part #:	:	0					
Project Nu		17474-15			Test Techn		Eric Li					
Purchase C		NA			Supervisor		Lisa A					
quip. Und	ler Test:	Socialite \	Nearable Fitr	ness Device	Witness' N	ame:	Dave	Elam				
	ſ	Radiated E	missions Test	Results Dat	a Sheet			Pag	ge:	1	of	1
EUT L	ine Voltage	:	3.6 VDC		EUT Pow	ver Frequen	cy:	0)	N/A		
Antenn	a Orientatio	n:	Vertic	al	Frequ	ency Range:			Abo	ove 1	GHz	
	EUT N	/lode of Op	eration:			Receive N	/lode C	enter	Chan	nel		
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit I		Maı (d	_	Test R	tesult
12686.9	3	278	0	Average	27.7	38.24	54	.0	-15	5.7	Pa	ISS
Radiated 1-18GHz 90 80	sional Testing, Emissions, 3m Dis Vertical Polarity Meas	tance				 ∇ Cor Pea 	erage Lim rected Av ak Limit L rected Pe	erage Re evel		PROFES	SIONAL	
ied Strength (dB µV/m) 109 40			_ _	· — — -				_			, pite a park to reflac	
Sp	and the second s	erifugi dalamat <mark>kepaga aiyaba</mark>	Hadaya Malicana Angala and Anda	plants and the latest and the second		and it to a firm to the limit of					7	
를 40 30	All the state of t											
30												
30 20 C	Fric Lifsey			E	woney.	F	UT: Socialite	e Searable F)G ire	130	3
30 20 1G Operator:	Eric Lifsey 'Socialite'Run08'RecM	Iodetil	Mode: Rei Power: Ba	ceive (Advertising)	uency		UT: Socialito		itness Dev		130	3

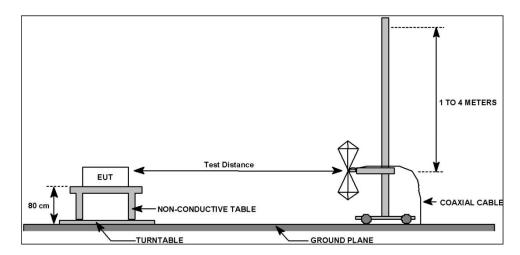
			Profes	sional Te	sting, El	VII, Inc.					
Test Metho	od:		4–2003: "Metho Equipment in th						_		
n accorda	nce with:	FCC Part 1 Limits	5.209 - Code of	Federal Regula	tions Part 47,	Subpart C - Int	entional F	Radiator	s, Radiato	ed Emissio	
Section:		15.209									
Test Date(s):	11/10/20			EUT Serial	#:	0				
Customer:		WiseWe			EUT Part #:		0				
Project Nu		17474-15	5		Test Techn		Eric Lifs	-			
Purchase C		NA			Supervisor		Lisa Arn				
Equip. Und	ler Test:	Socialite	Wearable Fit	ness Device	Witness' N	ame:	Dave Ela	am			
	F	Radiated I	Emissions Tes	t Results Dat	a Sheet			Page:	1	of	
EUT L	ine Voltage	:	3.6 VDC		EUT Pov	ver Frequen	су:	0	N/A		
Antenn	a Orientatio	n:	Horizo	ntal	Frequ	Frequency Range: Above 1GHz					
	EUT N	/lode of O	peration:			Receive N	lode Ce	nter Ch	nannel		
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees	- 0	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit Le		Margin (dB)	Test Res	
12266.4	3	24	0	Average	27.8	38.025	54.0		-15.9	Pass	
Radiated	sional Testing, Emissions, 3m Dis Horizontal Polarity Mo	tance				∇ CorPea	rage Limit I rected Avera k Limit Leve rected Peak	nge Reading el		SSIONAL	
(m 70 60							_				
ng th					and the same of the base	and the property of the state o	Market		Mary Control	√	
Field Strength (dB µV/m) 609 400 400 400 400 400 400 400 400 400 4	an a	allman, de la seguina de la compansiona della co	And the second second second			A CONTRACTOR OF THE PARTY OF TH					
Field Strength 200	or and the state of the state o	d the age the tank amount of	And the state of t	A section of the land of the l							
20 Operator:	Eric Lifsey Socialite Run08 RecM	dhe sahah kanna ad		Free excive (Advertising)	luency		UT: Socialite Sea		10G s Device	13G	

7.0 Radiated Spurious Emissions, Transmit Mode

7.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the ground plane. The EUT was centered on a rotating turntable. Measurements below 1 GHz were taken at a test distance of 10 meters from the measurement antenna. Above 1 GHz the measurement distance was 3 meters.

Spurious emissions below 1 GHz were measured with quasi-peak detection with a resolution bandwidth of 120 kHz. Above 1 GHz peak measurements were taken and average measured where appropriate using 1 MHz resolution bandwidth. A diagram showing the test setup appears below.



7.2 Test Criteria

47 CFR (USA) // IC (Canada)		
Section Reference	Parameter	Date(s)
15.247, 15.209 // RSS-247 5.5, RSS-Gen 4.9 & 4.10	Field Strength of Radiated Spurious/Harmonic Emissions Transmit Mode	10 Nov 2015

7.3 Test Results

Below 1 GHz measurements were taken for the middle channel. Above 1 GHz measurements were taken for the three standard channels of the band.

Modulation was disabled for this test and the transmitter was placed into continuous transmit mode.

All measurements used peak detection.

Table 7.3.1: TX Mode, Below 1 GHz, Vertical Polarity, Mid. Channel

	Professional Te	esting, EMI, Inc	•										
Test Method:		C63.4–2003: "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and cronic Equipment in the Range of 9 kHz to 40 GHz" (incorporated by reference, see §15.38).											
In accordance with:	FCC Part 15.209 - Code of Federal Regula Limits	tions Part 47, Subpart C -	Intentional Radiators,	Radiate	d Emiss	sions							
Section:	15.209												
Test Date(s):	11/10/2015	EUT Serial #:	0										
Customer:	WiseWear	EUT Part #:	0										
Project Number:	17474-15	Test Technician:	Eric Lifsey										
Purchase Order #:	NA	Supervisor:	Lisa Arndt										
Equip. Under Test:	Socialite Wearable Fitness Device	Witness' Name:	Dave Elam										
	Radiated Emissions Test Results Dat	a Sheet	Page:	1	of	1							

Nadiat	eu Liilissioi	is rest nesults batt	a Sheet	i age.	1 01	
EUT Line Voltage:	3.6	VDC	EUT Power Frequency:	0	N/A	
Antenna Orientation:		Vertical	Frequency Range:	30N	Hz to 1GH	z

Transmit Mode Center Channel EUT Mode of Operation: EUT Test Recorded Corrected Frequency **Antenna** Limit Level **Detector** Margin Measured Distance Direction Height Amplitude Level **Test Results Function** $(dB\mu V/m)$ (dB) (MHz) (Meters) (Degrees) (Meters) (dB_µV) (dBµV/m) 32.5957 Pass_ 10 277 3.37 Quasi-peak 23.8 12.287 29.5 -17.2 46.0707 10 60 3.4 Quasi-peak 23.6 5.949 29.5 -23.6 Pass 434.285 10 110 2.31 Quasi-peak 22.2 15.706 35.6 -19.9 Pass 625.987 10 314 3.67 Quasi-peak 22 20.155 35.6 -15.4**Pass** 781.601 72 21.5 -12.9 10 2.69 Quasi-peak 22.724 35.6 Pass

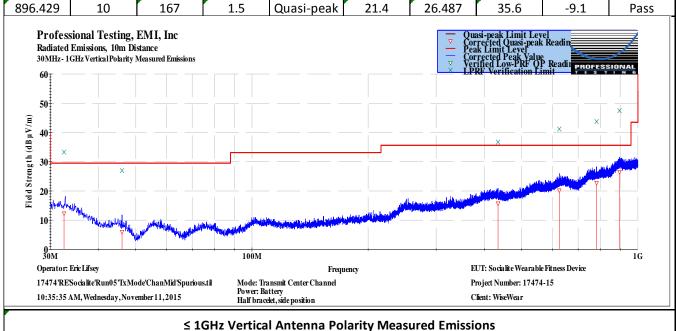
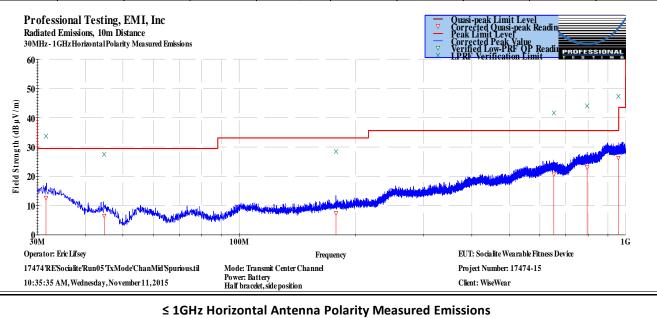


Table 7.3.	2: TX Mod	e, Be	low 1	GHz	, Hor	izontal Pola	rity, Mid.	Channel						
				Pro	ofes	sional Te	sting, EN	VII, Inc.						
Test Metho	od:					ds of Measurer e Range of 9 kH					·		t	
In accordar	nce with:	FCC Pa	rt 15.2	.09 - Co	ode of I	Federal Regulat	ions Part 47, S	Subpart C - Int	entional	Radiator	s, Radiate	ed Emiss	sions	
Section:		15.209	•											
Test Date(s	s):	11/10)/2015	5			EUT Serial #: 0							
Customer:		Wise\	Wear				EUT Part #: 0							
Project Nur	mber:	17474	1-15				Test Techni	Eric Lifs	ey					
Purchase O	rder #:	NA					Supervisor:		Lisa Arr	ıdt				
Equip. Und	er Test:	Socia	lite W	earab	le Fitr	ness Device	Witness' Na	ame:	Dave El	am				
Radiated Emissions Test Results						Results Data	a Sheet			Page:	1	of	1	
EUT Li	ine Voltage	:	3.	6	VDC		EUT Pow	ver Frequen	cy:	0	N/A			
Antenna	a Orientatio	n:		Н	orizor	ntal	Frequ	ency Range:		30	OMHz to 1GHz			
	EUT N	/lode c	of Ope	ratio	n:		Transmit Mode Center Channel							
Frequency Measured (MHz)	Test Distance (Meters)	EU Direc (Degr	tion	Hei	enna ight ters)	Detector Function	Recorded Amplitude (dBμV)	Corrected Level (dBµV/m)	Limit Le	_	/largin (dB)	Test R	esults	
31.6145	10	27	74	1.	49	Quasi-peak	24.2	12.699	29.5		-16.8	Pa	SS	
44.7301	10	25	54	2.	23	Quasi-peak	23.1	6.488	29.5		-23.0	Pa	SS	
178.069	10	24	12	1.	89	Quasi-peak	22.6	7.453	33.1		-25.6	Pa	SS	
652.168	10	18	36	3.	11	Quasi-peak	22	20.641	35.6		-15.0	Pa	SS	
795.543	10	11	L8	3	.6	Quasi-peak	21.5	23.034	35.6		-12.6	Pa	SS	
957.707	10	20)6	1.	05	Quasi-peak	21	26.318	35.6		-9.3	Pa	ss	
Profess	sional Testing,	EM I. Iı	10					— Ou	asi-peak Lim	it Level		_		



	5: 1X IVIOQ	e, Above 1	l GHz, Ver	tical Polarit	y, Low Cha	annel						
			Profess	sional Te	sting, EN	VII, Inc.						
Test Metho	od:			ds of Measurer e Range of 9 kH					_		ical and	
In accorda	nce with:	FCC Part 15.2 Limits	209 - Code of I	ederal Regulat	tions Part 47, S	Subpart C - Int	entiona	l Radia	itors, R	adiate	d Emiss	ions
Section:		15.209										
Test Date(s	;):	11/10/201	5		EUT Serial	# :	0					
Customer:		WiseWear			EUT Part #:		0					
Project Nu		17474-15			Test Techni	ician:	Eric Lif					
Purchase C	rder #:	NA			Supervisor: Lisa Arndt							
Equip. Und	er Test:	Socialite W	earable Fitr	ness Device	Witness' N	ame:	Dave I	Elam				
	F	Radiated Em	issions Test	Results Data	a Sheet			Pag	ge:	1	of	1
EUT L	ine Voltage:	: 3		EUT Power Frequency: 0 N/A				N/A				
Antenna	Antenna Orientation: Vertical				Frequency Range: Above 1GH				SHz			
	EUT N	lode of Ope	eration:		Transmit Mode Bottom Channel							
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit L (dBμV			gin 3)	Test Re	esults
4804	3	0	1	Peak	44	44	74.	0	-30	.0	Pas	SS
7206	3	0	1	Peak	45							
1	•			reak	45	45	74.	0	-29	.0	Pas	SS -

> 1GHz Vertical Antenna Polarity Measured Emissions

Mode: Transmit Low Channel Power: Battery Half bracelet, side position

Frequency

Operator: Eric Lifsey

 $17474 \ 'RE' Socialite' Run 06' Tx Mode' Chan Low' Spurious. til$

11:28:34 AM, Wednesday, November 11, 2015

18G

10G

Project Number: 17474-15

Client: WiseWear

EUT: Socialite Wearable Fitness Device

Table 7.3.4	4: TX Mod	e, Above 1	GHz, Hor	izontal Pola	arity, Low	Channel						
			Profess	sional Te	sting, EN	VII, Inc.						
Test Metho	d:			ds of Measurer e Range of 9 kH					~			
In accordar	nce with:	FCC Part 15.2 Limits	09 - Code of I	ederal Regulat	tions Part 47, S	Subpart C - Int	ention	al Radia	ators, Radiat	ed Emissions		
Section:		15.209										
Test Date(s):	11/10/201	5		EUT Serial	# :	0					
Customer:		WiseWear			EUT Part #: 0							
Project Nur	nber:	17474-15			Test Techni							
Purchase O	rder #:	NA			Supervisor:		Lisa A	rndt				
Equip. Und	er Test:	Socialite W	earable Fitr	ness Device	Witness' N	ame:	Dave	Elam				
	F	Radiated Em	issions Test	: Results Data	a Sheet			Pag	ge: 1	of 1		
EUT Li	ne Voltage:	3.	.6 VDC		EUT Pow	er Frequen	су:	C	N/A			
Antenna	orientation	n:	Horizor	ıtal	Frequency Range: Above 1GHz							
	EUT N	lode of Ope	eration:		Transmit Mode Bottom Channel							
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit (dBµ\		Margin (dB)	Test Results		
4804	3	0	1	Peak	47.4	47.4	74	.0	-26.6	Pass		
7206	3	0	1	Peak	48.5	48.5	74	.0	-25.5	Pass		
Radiated	sional Testing, Emissions, 3m Dis Iorizontal Polarity Me	tance	 			▽ Cor — Pea	erage Lim erected Av ak Limit I erected Pe	verage Re Level		SSIONAL		

> 1GHz Horizontal Antenna Polarity Measured Emissions

Mode: Transmit Low Channel Power: Battery Half bracelet, side position

Frequency

Operator: Eric Lifsey

 $17474 \ 'RE' Socialite' Run 06' Tx Mode' Chan Low' Spurious. til$

11:34:40 AM, Wednesday, November 11, 2015

18G

10G

Project Number: 17474-15

Client: WiseWear

EUT: Socialite Wearable Fitness Device

Table 7.3.5: TX Mode, Above 1 GHz, Vertical Polarity, Middle Channel

	Sie 7.3.3. TA Wode, Above I Griz, Vertical Foldrity, Wildele Charmer											
		Pro	ofessional Te	sting, EMI, Inc.								
Test Method:				ment of Radio-Noise Emiss Hz to 40 GHz" (incorporate			2	ical and	l			
In accordance with:	FCC Pa	Part 15.209 - Code of Federal Regulations Part 47, Subpart C - Intentional Radiators, Radiated Emissions ts										
Section:	15.20	15.209										
Test Date(s):	11/10	0/2015		EUT Serial #:	0							
Customer:	Wise	Wear		EUT Part #:	Ö							
Project Number:	1747	4-15		Test Technician:	Eric L	ifsey						
Purchase Order #:	NA			Supervisor:	Lisa A	rndt						
Equip. Under Test:	Socia	lite Wearak	ole Fitness Device	Witness' Name:	Dave	Elam						
	Radiat	ed Emission	ns Test Results Dat	a Sheet		Page:	1	of	1			
EUT Line Voltage	e:	3.6	VDC	EUT Power Frequency: 0 N/A								

110.0100			2011000		
EUT Line Voltage:	3.6	VDC	EUT Power Frequency:	0	N/A
Antenna Orientation:		Vertical	Frequency Range:	Ab	ove 1GHz

	EUT N	Node of Ope	eration:		Transmit Middle Channel						
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit Level (dBµV/m)	Margin (dB)	Test Results		
1226.67	3	134	1	Average	34.2	22.124	54.0	-31.8	Pass		
1973.5	3	203	1	Average	35.2	26.398	54.0	-27.6	Pass		
4224.36	3	9	1	Average	34	29.094	54.0	-24.9	Pass		
7921.38	3	177	1	Average	28.2	33.849	54.0	-20.1	Pass		
13376.9	3	115	1	Average	28.9	39.638	54.0	-14.3	Pass		
16918.3	3	287	1	Average	27.5	42.148	54.0	-11.8	Pass		

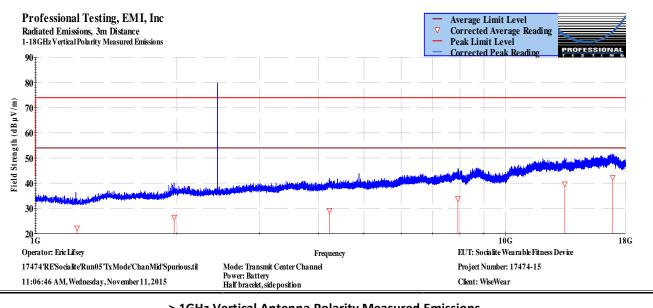


Table 7.3.	6: TX Mod	le, Abov	/e 1 GH	lz, Hor	izontal Pol	arity, Mido	lle Channe	el l			ai J	
			Pr	ofes	sional Te	sting, El	VII, Inc.					
Test Metho	od:				ds of Measure e Range of 9 kH				_			d
In accordar	nce with:	FCC Part :	15.209 -	Code of	Federal Regula	tions Part 47,	Subpart C - Int	entional Ra	adiators,	Radiate	ed Emis	sions
Section:		15.209										
Test Date(s	s):	11/10/2	2015			EUT Serial #: 0 EUT Part #: 0						
Customer:		WiseWe	ear			EUT Part #:						
Project Nu	mber:	17474-1	.5			Test Techn	ician:	Eric Lifse	у			
Purchase C	rder #:	NA				Supervisor: Lisa Arndt						
Equip. Und	er Test:	Socialite	e Weara	ble Fitr	ness Device	Witness' N	ame:	Dave Ela	m			
	F	Radiated	Emissic	ns Test	: Results Dat	a Sheet		1	Page:	1	of	1
EUT L	ine Voltage	:	3.6		EUT Pov	ver Frequen	су:	0	N/A			
Antenna	a Orientatio	on:		Horizor	ntal	Frequency Range: Above 1GHz					GHz	
	EUT N	Node of (Operati	on:		Transmit Middle Channel						
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degree	on H	tenna eight leters)	Detector Function	Recorded Amplitude (dBμV)	Corrected Level (dBµV/m)	Limit Lev	-	rgin IB)	Test F	Results
1457.25	3	29		1	Average	35.9	24.486	54.0	-2	9.5	Pa	ass
2028.27	3	126		1	Average	35.2	26.502	54.0	-2	7.5	Pa	ass
4238.42	3	114		1	Average	33.9	29.101	54.0	-2	4.9	Pa	ass
8638.99	3	282		1	Average	27.3	34.633	54.0	-1	9.3	Pa	ass
14556.1	3	140		1	Average	28.4	39.762	54.0	-1	4.2	Pa	ass
16753.9	3	303		1	Average	27.4	42.157	54.0	-1	1.8	Pa	ass
Radiated	sional Testing, Emissions, 3m Dis Horizontal Polarity M	stance	is				▽ Cor — Pea	erage Limit Le crected Averag ak Limit Level crected Peak R	e Reading	PROFES T E S	SIONAL 1 N G	

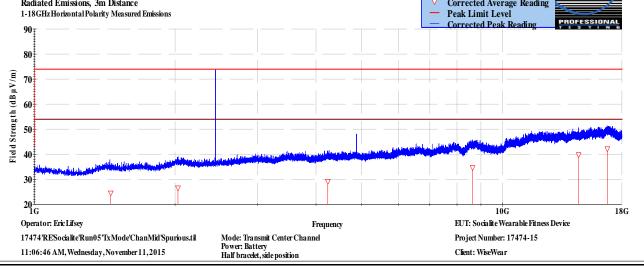


Table 7.3.	7: TX Mod	le, Above 1	L GHz, Ver	tical Polarit	y, High Ch	annel					
			Profess	sional Te	sting, El	VII, Inc.					
Test Metho	od:			ds of Measurer e Range of 9 kH				~			
In accorda	nce with:	FCC Part 15.2 Limits	209 - Code of I	ederal Regulat	tions Part 47,	Subpart C - Int	tentional Radia	ators, Radiate	ed Emissions		
Section:		15.209									
Test Date(s	s):	11/10/201	5		EUT Serial	#:	0				
Customer:		WiseWear			EUT Part #:		0				
Project Nu	mber:	17474-15			Test Techn	ician:	Eric Lifsey				
Purchase C	order #:	NA			Supervisor		Lisa Arndt				
Equip. Und	ler Test:	Socialite W	earable Fitr	ness Device	Witness' N						
	l	Radiated Em	nissions Test	Results Data	a Sheet		Pa	ge: 1	of 1		
EUT L	ine Voltage	: 3	.6 VDC		EUT Power Frequency: 0 N/A						
Antenna	a Orientatio	on:	Vertic	al	Frequency Range: Above 1GHz						
	EUT N	Mode of Ope	eration:		Transmit Middle Top Channel						
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit Level (dBµV/m)	Margin (dB)	Test Results		
4960	3	0	1	Peak	44.2	44.2	74.0	-29.8	Pass		
7440	3	0	1	Peak	44.2	44.2	74.0	-29.8	Pass		
Radiated	sional Testing, Emissions, 3m Di Vertical Polarity Meas	stance				▽ Cor — Pea	erage Limit Level rrected Average R ak Limit Level rrected Peak Readi		SIONAL IN 6		

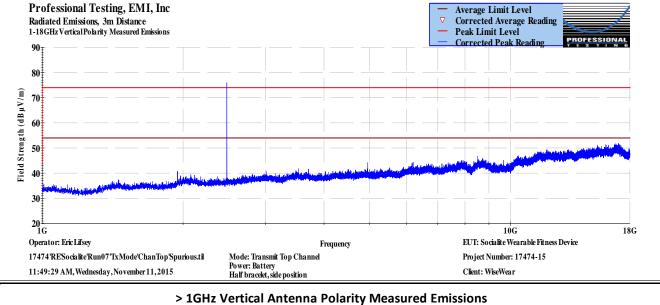


Table 7.3.	8: TX Mod	e, Above 1	GHz, Hor	izontal Pola	arity, High	Channel							
			Profess	sional Te	sting, El	VII, Inc.							
Test Metho	d:			ds of Measurer e Range of 9 kH					•	rical and	d		
In accordar	ice with:	FCC Part 15.2 Limits	:09 - Code of I	Federal Regulat	tions Part 47,	Subpart C - Int	entional	Radiat	ors, Radiate	d Emis	sions		
Section:		15.209											
Test Date(s):	11/10/2015	5		EUT Serial #: 0								
Customer:		WiseWear			EUT Part #: 0								
Project Nur	nber:	17474-15			Test Technician: Eric Lifsey								
Purchase O	rder #:	NA			Supervisor: Lisa Arndt								
Equip. Und	er Test:	Socialite W	earable Fitr	ness Device	Witness' N	ame:	Dave E	lam					
	R	Radiated Em	issions Test	Results Data	a Sheet			Page	: 1	of	1		
EUT Li	ne Voltage:	3.	.6 VDC		EUT Pow	ver Frequen	су:	0	N/A				
Antenna	Orientatio	n:	Horizor	ntal	Frequency Range: Above 1GHz								
	EUT N	lode of Ope	eration:		Transmit Middle Top Channel								
Frequency Measured (MHz)	Test Distance (Meters)	EUT Direction (Degrees)	Antenna Height (Meters)	Detector Function	Recorded Amplitude (dBµV)	Corrected Level (dBµV/m)	Limit Le		Margin (dB)	Test R	esults		
4960	3	0	1	Peak	46.3	46.3	74.0)	-27.7	Pa	ISS		
7440	3	0	1	Peak	44.3	44.3	74.0)	-29.7	Pa	ISS		
Radiated	sional Testing, Emissions, 3m Dist lorizontal Polarity Me	tance				▽ Con — Pea	erage Limit rrected Aver ik Limit Levected Peal	rage Read vel	° =	SIONAL			

> 1GHz Horizontal Antenna Polarity Measured Emissions

Frequency

Mode: Transmit Top Channel Power: Battery Half bracelet, side position

Operator: Eric Lifsey

17474'RE'Socialite'Run07'TxMode'ChanTop'Spurious.til

11:55:41 AM, Wednesday, November 11, 2015

18G

10G

Project Number: 17474-15

Client: WiseWear

EUT: Socialite Wearable Fitness Device

7.3.9 TX Mode, 18 GHz to 25 GHz, Low Channel

		Professional Te	sting, EMI, Inc.					
est Method:		NSI C63.4–2003: "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and ectronic Equipment in the Range of 9 kHz to 40 GHz" (incorporated by reference, see §15.38).						
n accordance with:	FCC Part 15.2 Limits	09 - Code of Federal Regula	tions Part 47, Subpart C - Intentio	nal Radiators	, Radiate	d Emis	sion	
Section:	15.209		<u> </u>					
Test Date(s):	11/10/2015		EUT Serial #: 0					
Customer:	WiseWear		EUT Part #: 0					
Project Number:	17474-15			Lifsey				
Purchase Order #:	NA		<u> </u>	Arndt				
quip. Under Test:	Socialite W	earable Fitness Device	Witness' Name: Dave	Elam				
	Radiated Em	issions Test Results Dat	a Sheet	Page:	1	of	1	
EUT Line Voltag	ge: 3.	6 VDC	EUT Power Frequency:	0	N/A			
Antenna Orientat	Orientation: Vertical Frequency Range:				bove 10	3Hz		
EUT	Mode of Ope	ration:	Transmit Mode	Bottom Ch	nannel			
Radiated Emissions, Mea 18-26.5 GHz Vertical Polarity		d to 3m Distance	— Peak Limit	Average Reading Level Peak Reading	PROFESS	SIONAL N 6		
Field Strength (dB µV/m)								

	Pı	rofessional Te	esting, EMI, Inc.				
Fest Method:			ment of Radio-Noise Emission Hz to 40 GHz" (incorporated		•		t
n accordance with:	FCC Part 15.209 - Limits	Code of Federal Regula	tions Part 47, Subpart C - In	tentional Radia	ators, Radiate	ed Emiss	sion
Section:	15.209						
Гest Date(s):	11/10/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite Weara	able Fitness Device	Witness' Name:	Dave Elam			
	Radiated Emission	ons Test Results Dat	a Sheet	Pag	ge: 1	of	1
EUT Line Voltag	e: 3.6	VDC	EUT Power Frequen	icy: C	N/A		
Antenna Orientat	ation: Horizontal Frequency Range:				Above 1GHz		
EUT	Mode of Operati	on:	Transmit I	Mode Bottor	m Channel		
Professional Testing Radiated Emissions, Mea 18-26.5 GHz Horizontal Polar 90 80 60 60 60 60 60 60 60 60 60 60 60 60 60	sured at 1m and Scaled to 3	8m Distance	▽ Co — Pe	erage Limit Level rrected Average R ak Limit Level rrected Peak Readi		SIGNAL	
30 18.0G Operator: Eric Lifsey 17474 RESocialite Run06 Tx	Mode'ChanLow Spurious.til	Free Mode: Transmit Low Channel Power: Battery	quency	ZUT: Socialite Wearabk Project Number: 17474		26.50	G

7.3.10 TX Mode, 18 GHz to 25 GHz, Middle Channel

		Professional Te	esting, EMI, Inc.				
Fest Method:			ment of Radio-Noise Emission Hz to 40 GHz" (incorporated		•	rical and	d
n accordance with:	FCC Part 15.20 Limits	9 - Code of Federal Regula	tions Part 47, Subpart C - Int	tentional Radiator	s, Radiate	d Emiss	sion
Section:	15.209						
Гest Date(s):	11/10/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite We	arable Fitness Device	Witness' Name:	Dave Elam			
	Radiated Emis	ssions Test Results Dat	a Sheet	Page:	1	of	1
EUT Line Voltag	ge: 3.6	VDC	EUT Power Frequen	icy: 0	N/A		
Antenna Orientation: Vertical Freque				: <i>I</i>	Above 10	3Hz	
EUT	Mode of Oper	ation:	Transm	nit Middle Char	nel		
Professional Testin Radiated Emissions, Mer 18-26.5 GHz Vertical Polarity 90 80 60 40 40 40 40 40 40 40 40 40 40 40 40 40	asured at 1m and Scaled	to 3m Distance	▽ Coi — Pea	erage Limit Level rrected Average Readin ak Limit Level rrected Peak Reading	PROFESS	SIONAL	
30 18.0G Operator: Eric Lifsey 17474 RE'Socialite'Run05 Te	xMode'ChanMid'Spurious.ti		17	ZUT: Socialite Wearable Fitne Project Number: 17474-15	ss Device	26.5	G

	Pi	rofessional Te	sting, EMI, Inc.				
Fest Method:			ment of Radio-Noise Emission Hz to 40 GHz" (incorporated		•		d
n accordance with:	FCC Part 15.209 - Limits	Code of Federal Regulat	tions Part 47, Subpart C - In	tentional Radiat	ors, Radiate	ed Emiss	sion
Section:	15.209						
Гest Date(s):	11/10/2015		EUT Serial #:	o			
Customer:	WiseWear		EUT Part #:	O			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite Weara	able Fitness Device	Witness' Name:	Dave Elam			
	Radiated Emission	ons Test Results Data	a Sheet	Page	e: 1	of	1
EUT Line Voltag	e: 3.6	VDC	EUT Power Frequen	icy: 0	N/A		
Antenna Orientat	ion:	n: Horizontal Frequency Range: A					
EUT	Mode of Operati	ion:	Transn	nit Middle Ch	annel		
Radiated Emissions, Mea 18-26.5 GHz Horizontal Polar 90 80 (m/ 70 8p) 41 60 50 50 50 50 50 50 50 50 50 50 50 50 50	sured at 1m and Scaled to 3 ity Measured Emissions	3m Distance	— Pe:	rrected Average Rea ak Limit Level rrected Peak Reading	, and the second	SIONAL 7 (= 6	
40 30 18.0G Operator: Eric Lifsey	Mode'ChanMid'Spurious.til	Freq Mode: Transmit Center Channel	17	EUT: Socialite Wearable Fir		26.5	G

7.3.11 TX Mode, 18 GHz to 25 GHz, High Channel

	P	rofessional Te	esting, EMI, Inc.				
Test Method:			ment of Radio-Noise Emission Hz to 40 GHz" (incorporated		•		d
In accordance with:	FCC Part 15.209 - Limits	· Code of Federal Regula	tions Part 47, Subpart C - Int	tentional Radiat	ors, Radiate	ed Emis	sior
Section:	15.209						
Test Date(s):	11/10/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite Wear	able Fitness Device	Witness' Name:	Dave Elam			
	Radiated Emissi	ons Test Results Dat	a Sheet	Page	: 1	of	
EUT Line Voltag	ge: 3.6	VDC	EUT Power Frequen	cy: 0	N/A		
Antenna Orientat	tion:	Vertical	Frequency Range:	:	Above 1	GHz	
EUT	Mode of Operat	ion:	Transmit	Middle Top (hannel		
Radiated Emissions, Met 18-26.5 GHz Vertical Polarity 90 80 And 70 18 60 18 60 18 50	asured at 1m and Scaled to Measured Emissions	3m Distance	— Pea	rrected Average Read ak Limit Level rrected Peak Reading	, and the second	SIONAL	
40 to the state of	kModeChanTopSpurioustil	Free Mode: Transmit Top Channel	quency	IUT: Socialite Wearable Fi tro ject Number: 17474-1:		26.5	5G

	P	rofessional Te	sting, EMI, Inc.				
Test Method:			ment of Radio-Noise Emission Tale to 40 GHz" (incorporated		•		ţ
n accordance with:	FCC Part 15.209 - Limits	Code of Federal Regula	tions Part 47, Subpart C - In	tentional Radiate	ors, Radiate	d Emiss	sion
Section:	15.209						
Test Date(s):	11/10/2015		EUT Serial #:	0			
Customer:	WiseWear		EUT Part #:	0			
Project Number:	17474-15		Test Technician:	Eric Lifsey			
Purchase Order #:	NA		Supervisor:	Lisa Arndt			
Equip. Under Test:	Socialite Wear	able Fitness Device	Witness' Name:	Dave Elam			
R	adiated Emissi	ons Test Results Dat	a Sheet	Page	e: 1	of	1
EUT Line Voltage:	3.6	VDC	EUT Power Frequer	ncy: 0	N/A		
Antenna Orientatio	n:	Horizontal	Frequency Range	:	Above 10	GHz	
EUT M	lode of Operat	ion:	Transmit	: Middle Top (Channel		
Professional Testing, Radiated Emissions, Measur 18-26.5 GHz Horizontal Polarity 90 80 70 60 91 15 92 14 95 95 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	ed at 1m and Scaled to	3m Distance	▽ Co — Pe	erage Limit Level rrected Average Read ak Limit Level rrected Peak Reading		SIONAL	
40 30 18.0G Operator: Eric Lifsey		Freq	uency I	EUT: Socialite Wearable Fit	tness Device	26.50	G
ARABADDIC I II D ARIE M	de'ChanTop'Spurious.til	Mode: Transmit Top Channel	ī	Project Number: 17474-15	,		

8.0 Antenna Construction Requirements

The design was investigated for meeting the antenna construction requirements of the applicable rules.

8.1 Procedure

A direct examination of the antenna construction is performed and compared to rule criteria that prevent wireless device antennas from being modified by end users in ways that would void their authorization to use the device.

8.2 Criteria

47 CFR (USA) // IC (Canada)		
Section Reference	Parameter	Date(s)
15.203 // RSS-Gen 8.3	Antenna Construction	19 Nov 2015

8.3 Results

Table 8.3.1 Antenna Construction Details	
Antenna Manufacturer and Model	Specifications
Manufacturer WiseWear	Custom monopole cut flush into the bracelet
Model: N/A	frame.

- Antenna is embedded in the frame.
- There is no external antenna connector.

The antenna design above satisfies the requirements of the rules.

9.0 Conducted Emissions, Mains

9.1 Test Procedure

The EUT was placed on a non-conductive table 0.8 meters above the floor and 0.4 meters from the conductive reference plane (wall). The EUT is powered through a line impedance stabilization network (LISN) that provides a measurement tap and a termination approximating 50 Ohms in the measurement range of 150 kHz to 30 MHz. A spectrum analyzer is connected, in turn, to each mains line measurement tap and the measurement is taken.

9.2 Test Criteria

47 CFR (USA) // IC (Canada)		
Section Reference	Parameter	Date(s)
15.107, 15.207 // RSS-Gen	Mains conducted emissions	10 Nov 2015

9.3 Test Results

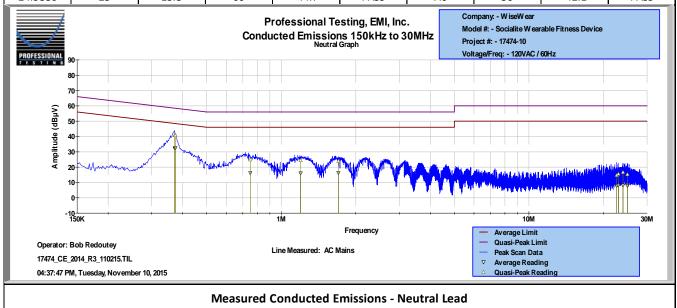
The EUT satisfied the criteria.

Tabular and plotted measurements appear on the following pages.

9.3.1 Mains, Neutral

Professional Testing, EMI, Inc.								
ANSI C63.4–2009: Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (incorporated by reference, see §15.38).								
In accordance with:	In accordance with: FCC Part 15.207 - Code of Federal Regulations Part 47, Subpart C - Intentional Radiators, Conducted Emissions Limits							
Section:	15.207							
Test Date(s):	11/10/2015	EUT Serial #:	001					
Customer:	WiseWear	EUT Part #:	None					
Project Number:	17474-15	Test Technician:	Bob Redoutey					
Purchase Order #:	NA	Supervisor:	Lisa Arndt					
Equip. Under Test:	Socialite Wearable Fitness Device	Witness' Name:	Dave Elam					

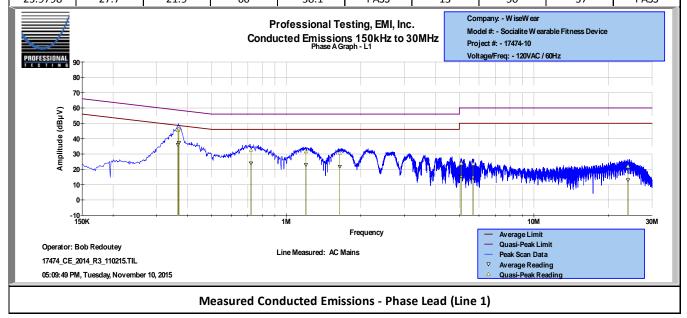
Conducted Emissions Test Results Data Sheet - Neutral Lead Page: 1 of											
EU	T Line Volta	ge:	120	VAC	EUT	Line Freque	ncy:	60	Hz		
Frequency Measured (MHz)	Peak Detector Reading (dBµV)	Quasi-peak Detector Reading (dBµV)	Quasi-peak Detector Limit (dBµV)	Quasi-peak Detector Margin (dB)	Quasi-peak Detector Test Results	Average Detector Reading (dBµV)	Average Detector Limit (dBµV)	Average Detector Margin (dB)	Average Detector Test Results		
0.37129	44.6	40.8	58.5	-17.7	PASS	32.4	48.5	-16.1	PASS		
0.37264	44.1	40.8	58.4	-17.7	PASS	32.5	48.4	-15.9	PASS		
0.37365	44.3	40.7	58.4	-17.8	PASS	32.5	48.4	-15.9	PASS		
0.7499	30.5	24.9	56	-31.1	PASS	16.2	46	-29.8	PASS		
1.1975	29.4	24.4	56	-31.6	PASS	16.1	46	-29.9	PASS		
1.701	29	23.9	56	-32.1	PASS	16.3	46	-29.7	PASS		
22.614	25.1	14.8	60	-45.2	PASS	7.8	50	-42.2	PASS		
22.9884	25.2	15.5	60	-44.5	PASS	8.2	50	-41.8	PASS		
23.9726	26.4	16.7	60	-43.3	PASS	8.1	50	-41.9	PASS		
24.9886	25	15.3	60	-44.7	PASS	7.9	50	-42.1	PASS		



9.3.2 Mains, Phase

Professional Testing, EMI, Inc.								
ANSI C63.4–2009: Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz (incorporated by reference, see §15.38).								
In accordance with:	In accordance with: FCC Part 15.207 - Code of Federal Regulations Part 47, Subpart C - Intentional Radiators, Conducted Emissions Limits							
Section:	15.207							
Test Date(s):	11/10/2015	EUT Serial #:	001					
Customer:	WiseWear	EUT Part #:	None					
Project Number:	17474-15	Test Technician:	Bob Redoutey					
Purchase Order #:	NA	Supervisor:	Lisa Arndt					
Equip. Under Test:	Socialite Wearable Fitness Device	Witness' Name:	Dave Elam					

Conducted Emissions Test Results Data Sheet - Phase Lead (Line 1) Page: 2 of 2									of 2
EU	EUT Line Voltage:			VAC	EUT Line Frequency:			60	Hz
Frequency Measured (MHz)	Peak Detector Reading (dBµV)	Quasi-peak Detector Reading (dBµV)	Quasi-peak Detector Limit (dBµV)	Quasi-peak Detector Margin (dB)	Quasi-peak Detector Test Results	Average Detector Reading (dBµV)	Average Detector Limit (dBµV)	Average Detector Margin (dB)	Average Detector Test Results
0.36542	48.2	45.5	58.6	-13.1	PASS	36	48.6	-12.7	PASS
0.36824	50.1	46.5	58.5	-12	PASS	37.1	48.5	-11.4	PASS
0.36856	50.4	46.5	58.5	-12	PASS	37.3	48.5	-11.3	PASS
0.7208	36.8	32.6	56	-23.4	PASS	23.9	46	-22.1	PASS
1.2008	35.4	31.6	56	-24.4	PASS	22.9	46	-23.1	PASS
1.6448	34.9	30.6	56	-25.4	PASS	21.7	46	-24.3	PASS
5.0788	28.9	23.8	60	-36.2	PASS	15	50	-35	PASS
5.0903	28.7	23.8	60	-36.2	PASS	15.1	50	-34.9	PASS
5.6795	28	23.6	60	-36.4	PASS	14.6	50	-35.4	PASS
23.9798	27.7	21.9	60	-38.1	PASS	13	50	-37	PASS



10.0 Equipment

10.1 Spurious Radiated Emissions 30 MHz to 25 GHz

		Profes	sional Te	esting, EMI, Inc.		
Test Metho	a: Electr FCC P	ical and Electronic	Equipment of Federal Re	surement of Radio-Noise in the Range of 9 kHz to egulations Part 47, Subpa	40 GHz" (incorpora	ated by reference,
Section:	15.20		its			
Test Date(s))/2015		EUT Serial #:	0	
Customer:	Wise\	•		EUT Part #:	0	
Project Nun				Test Technician: Eric Lifsey		
Purchase O				Supervisor:	Lisa Arndt	
Equip. Unde		ite Wearable Fitne	ess Device	Witness' Name:	Dave Elam	
		Radiate	d Emissions	Test Equipment List		
Til	le! Software Version	on: 4.2.A,	May 23, 201	LO, 08:38:52 AM		
	Test Profile:			ns_ClassA - LowPRF_072 ns_ClassB - LowPRF_072		
Asset #	Manufacturer	Model	Equipn	nent Nomenclature	Serial Number	Calibration Due Date
1509A	Braden	N/A	TDK 10M	Chamber, NSA < 1 GHz	DAC-012915-005	2/5/2016
1890	HP	8447F	Preamp/	Amp, 9kHz-1300MHz, 28/25dB	3313A05298	2/6/2016
1937	Agilent	E4440A	Spectrum A	nalyzer, 3 Hz - 26.5 GHz	MY44303298	12/2/2015
1926	ETS-Lindgren	3142D	Antenna, B	iconilog, 26 MHz - 6 GHz	135454	1/25/2017
C027D	none	RG214	Cabl	e Coax, N-N, 25m	none	10/1/2016
1327	EMCO	1050	Contro	ller, Antenna Mast	none	N/A
0942	EMCO 11968D		Т	urntable, 4ft.	9510-1835	N/A
1969	HP	11713A	Attenuator/Switch Driver		3748A04113	N/A
1509B	Braden	N/A	TDK 10M Chamber, VSWR > 1 GHz		DAC-012915-005	3/13/2016
2004	Miteq	AFS44-00101800- 2S-10P-44	AFS44-00101800- 2S-10P-44 Amplifier, 40dB, .1-18GHz		0	12/29/2015
C030	none	none	none Cable (none	10/1/2016
1325	EMCO	1050	1050 Controller, Antenna Mast		9003-1461	N/A
1780	ETS-Lindgren 3117		Antenna, Double Ridged Guide Horn, 1 - 18 GHz		110313	2/25/2017
1973	Agilent	83017A	83017A Amplifier, Microwave 0.5-26		MY39500497	2/4/2016
1542	A.H. Systems	SAS-572	Antenna,	Horn 18-26.5GHz, 20dB gain	225	N/A

10.2 Bandwidth and Fundamental Power

Asset #	Manufacturer	Model #	Description	Calibration Due
ALN-077	Rohde & Schwarz	FSP-30	Spectrum Analyzer	29 Jan 2016

10.3 Mains Conducted Emissions

		Profes	sional Te	esting, EMI, Inc.		
	ANS	I C63.4-2009: Meth	ods of Meas	urement of Radio-Noise	Emissions from Lov	w-Voltage
Test Metho	d: Elec	trical and Electronic	c Equipment	in the Range of 9 kHz to	40 GHz (incorpora	ted by reference
		§15.38).				
In accordan	ce witn:	Part 15.207 - Code ducted Emissions Li		egulations Part 47, Subpa	rt C - Intentional I	Radiators,
Section:	15.2	07				
Test Date(s)	: 11/	10/2015		EUT Serial #:	001	
Customer:		eWear		EUT Part #:	None	
Project Nun		74-15		Test Technician:	Bob Redoutey	
Purchase O				Supervisor:	Lisa Arndt	
Equip. Unde	er rest: Soci	alite Wearable Fitn	ess Device	Witness' Name:	Dave Elam	
		Conduct	ted Emission	s Test Equipment List		
Til	e! Software Vers		•	2009, 11:01:00PM		
	Test Profile:	CE_2	014_R3_091	615.TIL or CE_Marine_09	1615.TIL	
Asset #	Manufacturer	Model	Equipment Nomenclature		Serial Number	Calibration Due Date
1145	HP	8568B	Spectrum	Analyzer 100Hz-1.5GHz	2517A01821	10/18/2016
1834	НР	85662A	Spec Anal [Osply, use with A/N 1145	2349A06182	N/A
0990	НР	85685A	ı	RF Preselector	3010A01119	12/1/2015
0085	HP	85650A	Quasi-	Peak Adapter CISPR	3033A01458	10/18/2016
1173	PTI	100k HPF	Filter	, High Pass, 100kHz	none	1/15/2016
1087	PTI	PTI-ALF3	Atten	Attenuator Limiter Filter		4/28/2016
C109	НР	none	Cable 19 inch BNC (grey)		none	8/6/2016
C108	НР	11170 C	Cab	le 5 ft BNC (Grey)	none	8/6/2016
C107	Pomona	RG-223	Cable 9	ft BNC RG-223 (black)	none	8/6/2016
1185	EMCO	3825/2	LISI	N, 10kHz-100MHz	1235	11/11/2015

11.0 Measurement Bandwidths

Radiated Emissions Spectrum Analyzer Bandwidth and Measurement Time - Peak Scan							
Frequency Band Start (MHz)	Frequency Band Stop (MHz)	6 dB Bandwidth (kHz)	Number of Ranges Used	Measurement Time per Range			
0.009	0.15	0.3	2	Multiple Sweeps			
0.15	30	9	6	Multiple Sweeps			
30	1000	120	2	Multiple 800 mS Sweeps			
1000	6000	1000	2	Multiple Sweeps			
6000	18000	1000	2	Multiple Sweeps			
18000	26500	1000	2	Multiple Sweeps			

*Notes:

- 1. The settings above are specifically calculated for the E4440A series of spectrum analyzers, which have 8,000 data points per range.
- 2. The measurement receiver resolution bandwidth setting was 300 Hz for quasi-peak measurements from 9-150 kHz.
- 3. The measurement receiver resolution bandwidth setting was 9 kHz for quasi-peak measurements from 0.15-30 MHz.
- 4. The measurement receiver resolution bandwidth setting was 120 kHz for quasi-peak measurements from 30-1000 MHz.
- 5. The measurement receiver resolution bandwidth setting was 1 MHz for average measurements from 1-18 GHz.

Conducted Emissions Spectrum Analyzer Bandwidth and Measurement Time						
Frequency Band Start (MHz)	Frequency Band Stop (MHz)	6 dB Bandwidth (kHz)	Number of Ranges Used	Measurement Time per Range		
0.01	0.15	0.3	7	Five 1 second sweeps		
0.15	30	9	20	Five 1 second sweeps		

*Notes

- 1. The settings above are specifically calculated for the HP856X series of spectrum analyzers, which have 1,000 data points per range.
- 2. The measurement receiver resolution bandwidth setting was 300 Hz for quasi-peak measurements from 10-150 kHz.
- 3. The measurement receiver resolution bandwidth setting was 9 kHz for quasi-peak measurements from 0.15-30 MHz.

Appendix: Policy, Rationale, and Evaluation of EMC Measurement Uncertainty

All uncertainty calculations, estimates and expressions thereof shall be in accordance with NIST policy. Since PTI operates in accordance with NIST (NVLAP) Handbook 150-11: 2007, all instrumentation having an effect on the accuracy or validity of tests shall be periodically calibrated or verified traceable to national standards by a competent calibration laboratory. The certificates of calibration or verification on this instrumentation shall include estimates of uncertainty as required by NIST Handbook 150-11.

1. Rationale and Summary of Expanded Uncertainty.

Each piece of instrumentation at PTI that is used in making measurements for determining conformance to a standard (or limit), shall be assessed to evaluate its contribution to the overall uncertainty of the measurement in which it is used. The assessment of each item will be based on either a type A evaluation or a type B evaluation. Most of the evaluations will be type B, since they will be based on the manufacturer's statements or specifications of the calibration tolerances, or uncertainty will be stated along with a brief rationale for the type of evaluation and the resulting stated uncertainties.

The individual uncertainties included in the combined standard uncertainty for a specific test result will depend on the configuration in which the item of instrumentation is used. The combination will always be based on the law of propagation of uncertainty. Any systematic effects will be accommodated by including their uncertainties, in the calculation of the combined standard uncertainty; except that if the direction and amount of the systematic effect cannot be determined and separated from its uncertainty, the whole effect will be treated as uncertainty and combined along with the other elements of the test setup.

Type A evaluations of standard uncertainty will usually be based on calculating the standard deviation of the mean of a series of independent observations, but may be based on a least-squares curve fit or the analysis of variance for unusual situations. Type B evaluations of standard uncertainty will usually be based on manufacturer's specifications, data provided in calibration reports, and experience. The type of probability distribution used (normal, rectangular, a priori, or u-shaped) will be stated for each Type B evaluation.

In the evaluation of the uncertainty of each type of measurement, the uncertainty caused by the operator will be estimated. One notable operator contribution to measurement uncertainty is the manipulation of cables to maximize the measured values of radiated emissions. The operator contribution to measurement uncertainty is evaluated by having several operators independently repeat the same test. This results in a Type A evaluation of operator-contributed measurement uncertainty.

A summary of the expanded uncertainties of PTI measurements is shown as Table 1. These are the worst-case uncertainties considering all operative influence factors.

Table 1: Summary of Measurement Uncertainties for Site 45

Type of Measurement	Frequency Range	Meas. Dist.	Expanded Uncertainty U, dB (k=2)
Mains Conducted Emissions	150 kHz to 30 MHz	N/A	2.9
Telecom Conducted Emissions	150 kHz to 30 MHz	N/A	2.8
Padiated Emissions	30 to 1,000 MHz	10 m	4.8
Radiated Emissions	1 to 18 GHz	3 m	5.7

End	Λf	Re	nor	f
Lillu	UI.	IZC	NUL I	L

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