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### **FCC REPORT**

**Application No:** SZEM1611009456CR

Applicant:TMED Inc.Manufacturer:TMED Inc.Factory:TMED Inc.

Product Name: Bluetooth Heart Rate Monitor and Pedometer

Model No.(EUT): i37

**FCC ID:** 2AKD5-I37

Standards: 47 CFR Part 15, Subpart C (2015)

Date of Receipt: 2016-11-02 (for original report SZEM161100929601)

**Date of Test:** 2016-11-03 to 2016-11-08 (for original report SZEM161100929601)

**Date of Issue:** 2016-11-10 (for original report SZEM161100929601)

2016-11-29 (for new report SZEM161100945601)

Test Result: PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

#### Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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#### 2 Version

Revision Record						
Version Chapter Date Modifier Remark						
00		2016-11-29		Original		

Authorized for issue by:		
Tested By	(Edison Li) /Project Engineer	2016-11-08  Date
Checked By	Eric Fu	2016-11-29
	(Eric Fu) /Reviewer	Date



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### 3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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#### 5 General Information

#### 5.1 Client Information

Applicant:	TMED Inc.		
Address of Applicant:	10254 Park Commons Drive, Orlando, FL, 32832 USA		
Manufacturer:	TMED Inc.		
Address of Manufacturer:	10254 Park Commons Drive, Orlando, FL, 32832 USA		
Factory:	TMED Inc.		
Address of Factory:	10254 Park Commons Drive, Orlando, FL, 32832 USA		

#### 5.2 General Description of EUT

Product Name:	Bluetooth Heart Rate Wristband
Model No.:	i37
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth V4.0 single mode
Modulation Type:	GFSK
Number of Channel:	40
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.7V,150mAh
Test Voltage:	DC 3.7V
USB cable:	20cm unshielded(charge only)

#### Remark:

Original model No. in report SZEM161100929601: W311, iSport 5Pro

Only the model W311 was tested in report SZEM161100929601, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all above models. Only different on model name.

New model No. in report SZEM161100945601: i37

This report was an additional report copied from the report SZEM161100929601, just changed the information of applicant, manufacturer and factory, product name and model No.. Since the electrical circuit design, layout, components used and internal wiring for the model in the report SZEM161100929601 was exactly the same as the models in this report, only different on model No..



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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

#### Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency		
The lowest channel (CH0)	2402MHz		
The middle channel (CH19)	2440MHz		
The highest channel (CH39)	2480MHz		



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#### 5.3 Test Environment

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	53 % RH			
Atmospheric Pressure:	1010mbar			

#### 5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
Adapter	Apple	A1357 W010A051

#### 5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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#### 5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

#### FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

#### 5.7 Deviation from Standards

None.

#### 5.8 Abnormalities from Standard Conditions

None.

#### 5.9 Other Information Requested by the Customer

None.



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### 5.10 Equipment List

	Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2016-05-13	2017-05-13	
2	LISN	Rohde & Schwarz	ENV216	SEM007-01	2016-10-09	2017-10-09	
3	LISN	ETS-LINDGREN	3816/2	SEM007-02	2016-04-25	2017-04-25	
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T8-02	EMC0120	2016-09-28	2017-09-28	
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T4-02	EMC0121	2016-09-28	2017-09-28	
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN- T2-02	EMC0122	2016-09-28	2017-09-28	
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2016-04-25	2017-04-25	
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	

	RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)	
1	DC Power Supply	ZhaoXin	RXN- 305D	SEM011-02	2016-10-09	2017-10-09	
2	Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09	
3	Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2016-04-25	2017-04-25	
4	Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09	



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	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2016-05-13	2017-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEM004-05	2016-10-09	2017-10-09
3	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2014-11-01	2017-11-01
4	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEM003-11	2015-10-17	2018-10-17
5	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEM003-12	2014-11-24	2017-11-24
6	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2016-04-25	2017-04-25
7	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A
8	DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
9	Loop Antenna	Beijing Daze	ZN30401	SEM003-09	2015-05-13	2018-05-13

	RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2016-05-13	2017-05-13
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEM004-04	2016-04-25	2017-04-25
3	BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-02	2014-11-15	2017-11-15
4	Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
5	Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
6	Horn Antenna (18-26GHz)	ETS-Lindgren	3160	SEM003-12	2014-11-24	2017-11-24
7	Horn Antenna(26GHz- 40GHz)	A.H.Systems, inc.	SAS-573	SEM003-13	2015-02-12	2018-02-12
8	Low Noise Amplifier	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2016-10-09	2017-10-09
9	Band filter	Amindeon	Asi 3314	SEM023-01	N/A	N/A



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#### 6 Test results and Measurement Data

#### 6.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

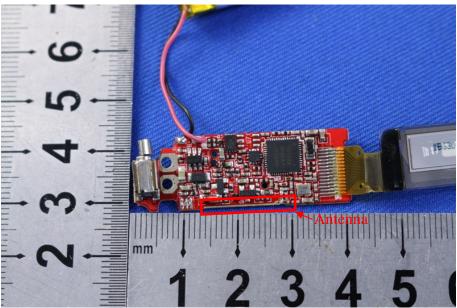
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### **EUT Antenna:**

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.





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#### 6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	150kHz to 30MHz				
Limit:	For the second (MIL)	Limit (c	dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.	<u> </u>		
Test Procedure:	<ol> <li>The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>In order to find the maximum emission, the relative positions of equipment</li> </ol>				
Test Setup:	ANSI C63.10: 2013 on con	nducted measurement.			
. 55. 55.50	Shielding Room  EUT  AC Mains  LISN1	AE  LISN2 AC Ma  Ground Reference Plane	Test Receiver		
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.				

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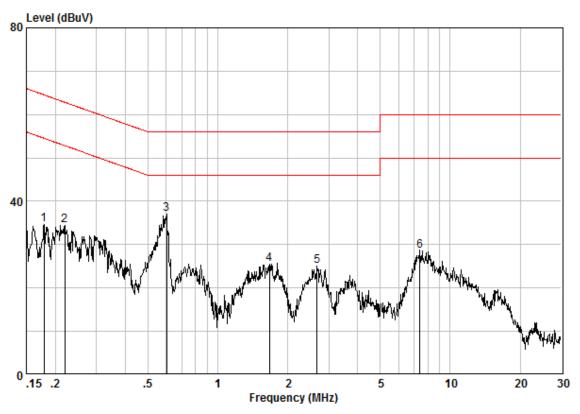
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

#### **Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live line:



Site : Shielding Room Condition : CE LINE Job No. : 9296CR Test Mode : Charge+TX

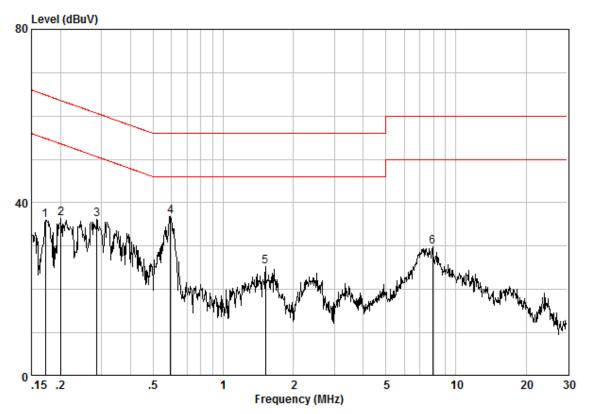
	Freq		LISN Factor			Limit Line		Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17866	0.02	9.60	25.00	34.62	54.55	-19.93	Peak
2	0.21967	0.02	9.60	24.87	34.49	52.83	-18.35	Peak
3 @	0.60112	0.02	9.61	27.41	37.04	46.00	-8.96	Peak
4	1.671	0.03	9.60	15.86	25.49	46.00	-20.51	Peak
5	2.678	0.03	9.62	15.44	25.08	46.00	-20.92	Peak
6	7.407	0.09	9.68	18.88	28.66	50.00	-21.34	Peak



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#### Neutral line:



Site : Shielding Room Condition : CE NEUTRAL Job No. : 9296CR Test Mode : Charge+TX

	Freq		LISN Factor					Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17215	0.02	9.60	26.42	36.04	54.86	-18.81	Peak
2	0.20075	0.02	9.62	26.72	36.36	53.58	-17.22	Peak
3	0.28630	0.02	9.62	26.48	36.11	50.63	-14.52	Peak
4	0.59478	0.02	9.63	27.23	36.88	46.00	-9.12	Peak
5	1.519	0.03	9.64	15.66	25.33	46.00	-20.67	Peak
6	7.935	0.10	9.76	20.07	29.93	50.00	-20.07	Peak

#### Notes:

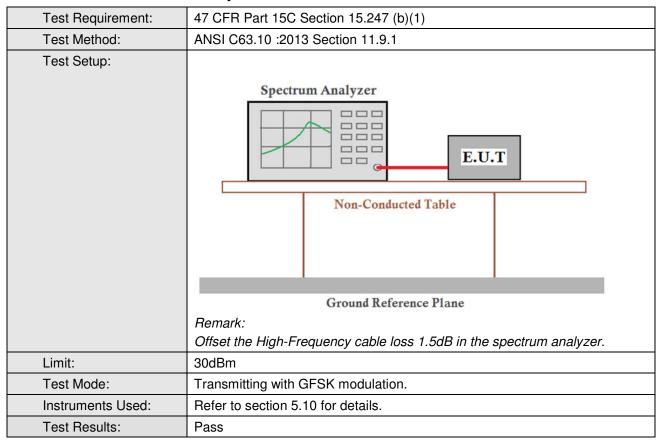
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.



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#### 6.3 Conducted Peak Output Power



#### **Measurement Data**

	GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-2.64	≤30.00	Pass			
Middle	-3.25	≤30.00	Pass			
Highest	-4.59	≤30.00	Pass			

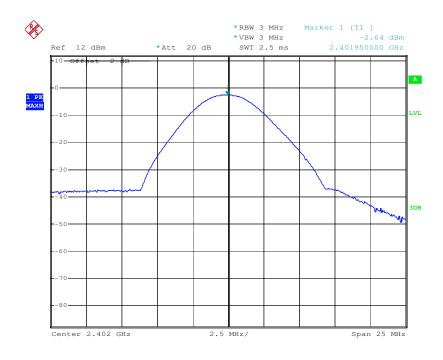


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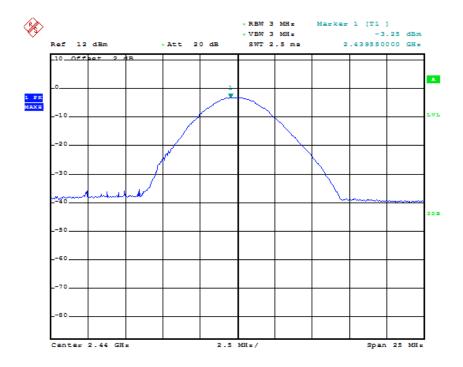
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#### Test plot as follows:

Test mode: GFSK Test channel: Lowest





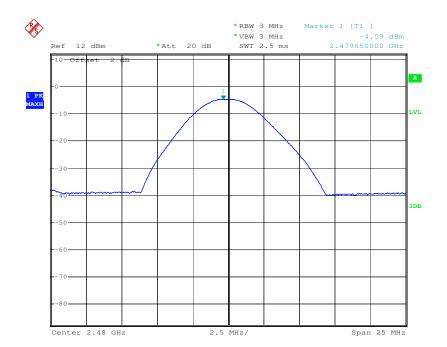




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Test mode: GFSK Test channel: Highest

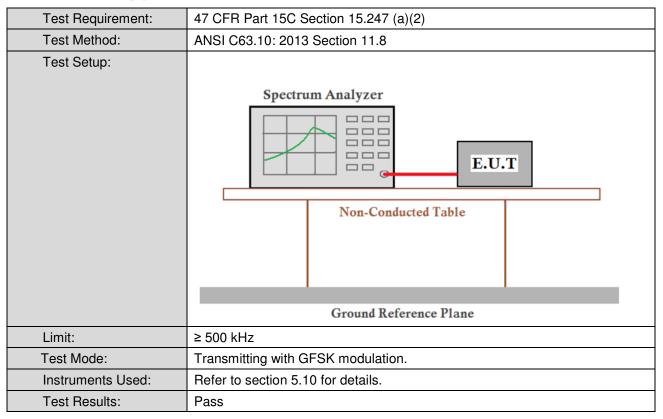




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### 6.4 6dB Occupy Bandwidth



#### **Measurement Data**

GFSK mode					
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result		
Lowest	0.666	≥500	Pass		
Middle	0.660	≥500	Pass		
Highest	0.666	≥500	Pass		

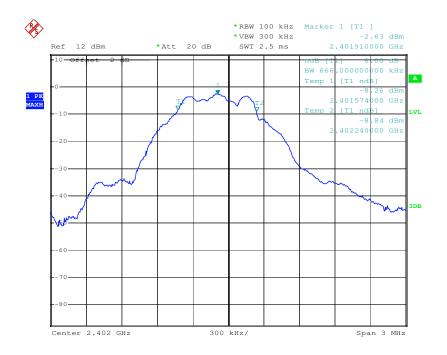


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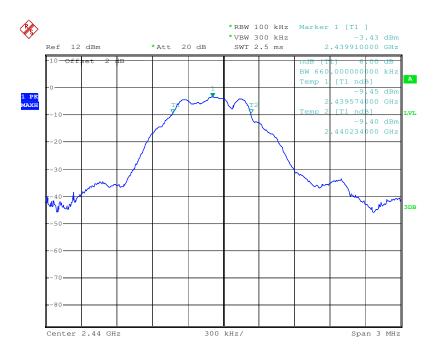
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#### Test plot as follows:

Test mode: GFSK Test channel: Lowest



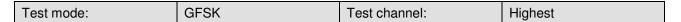


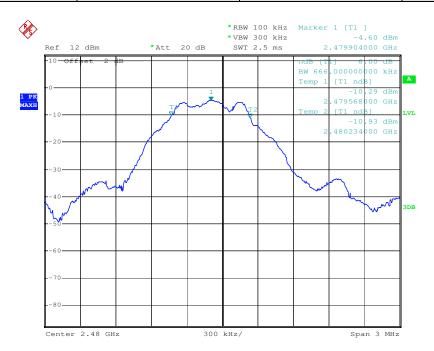




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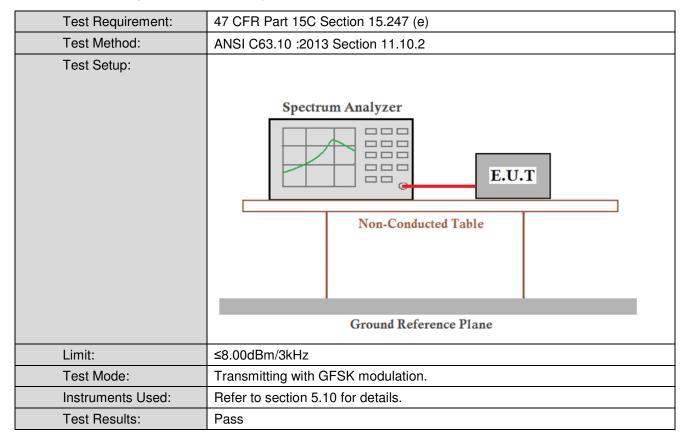




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### 6.5 Power Spectral Density



#### **Measurement Data**

GFSK mode					
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-16.66	≤8.00	Pass		
Middle	-18.62	≤8.00	Pass		
Highest	-19.82	≤8.00	Pass		

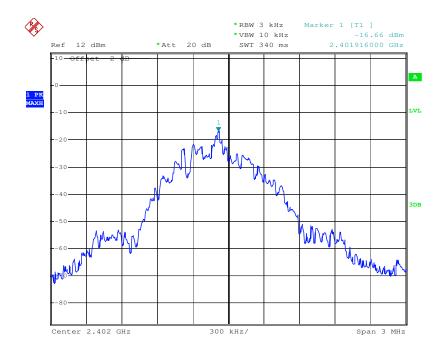


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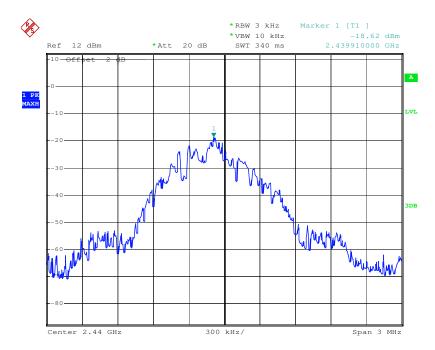
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Test plot as follows:

Test mode: GFSK Test channel: Lowest





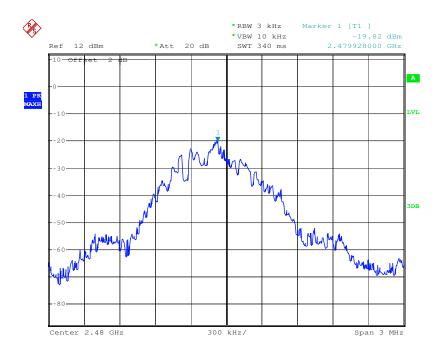




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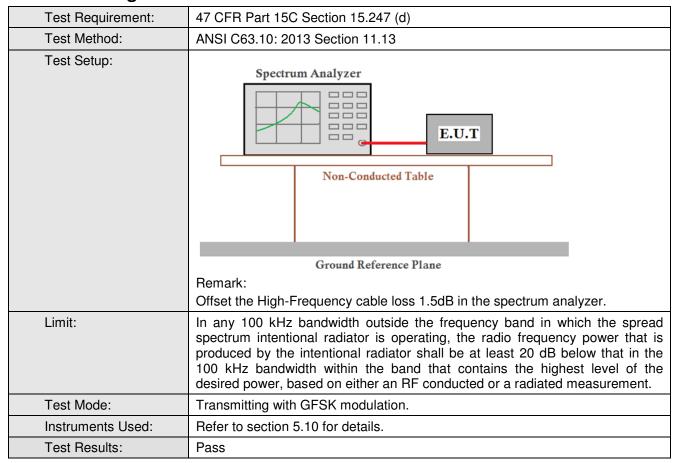




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#### 6.6 Band-edge for RF Conducted Emissions



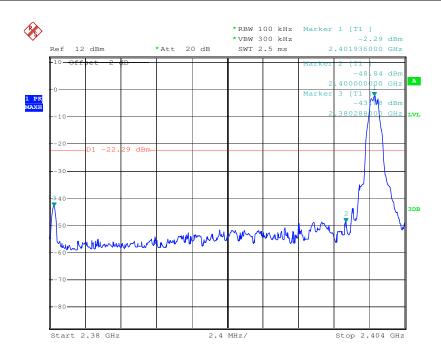


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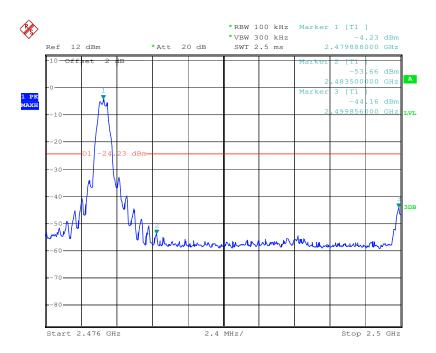
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#### Test plot as follows:

Test mode: GFSK Test channel: Lowest









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#### 6.7 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)		
Test Method:	ANSI C63.10: 2013 Section 11.11		
Test Setup:	Spectrum Analyzer  E.U.T  Non-Conducted Table		
	Ground Reference Plane		
	Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.		
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.		
Test Mode:	Transmitting with GFSK modulation.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		

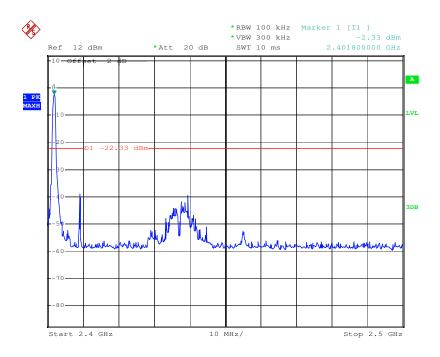


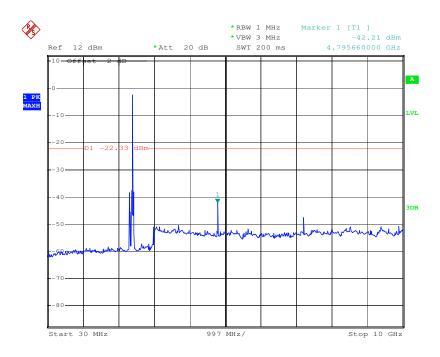
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#### Test plot as follows:

Test mode: GFSK Test channel: Lowest

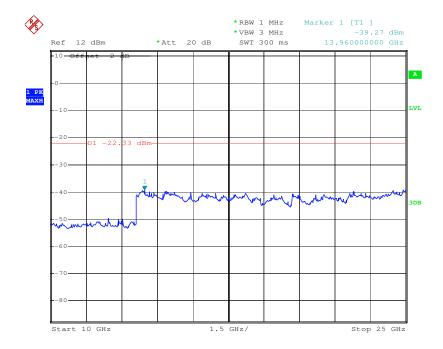




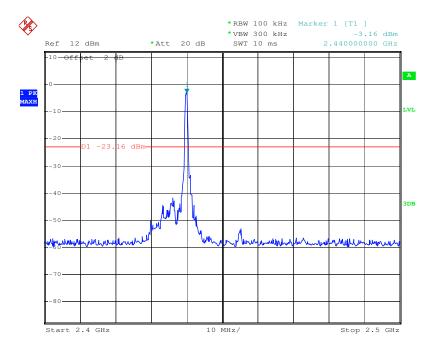


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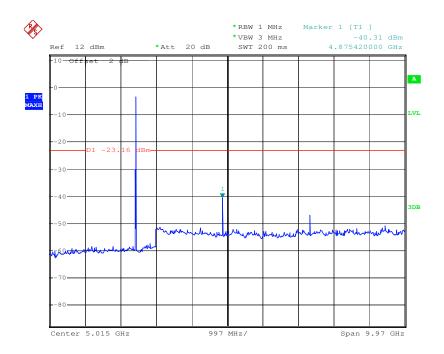


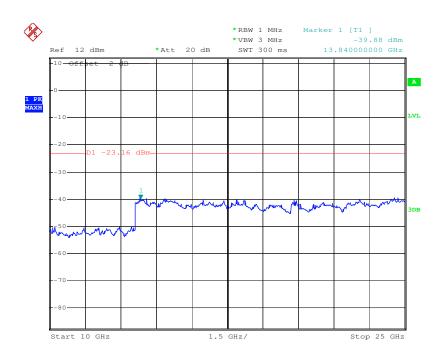




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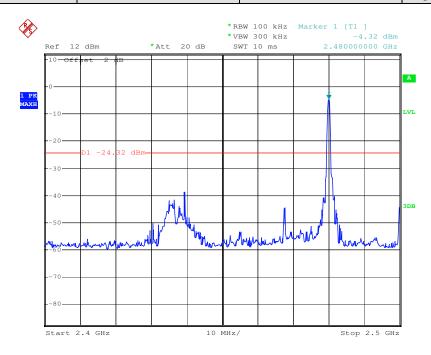


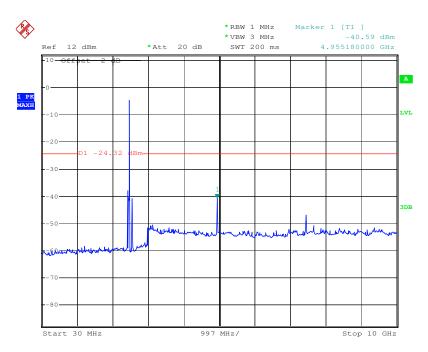


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Test mode: GFSK Test channel: Highest

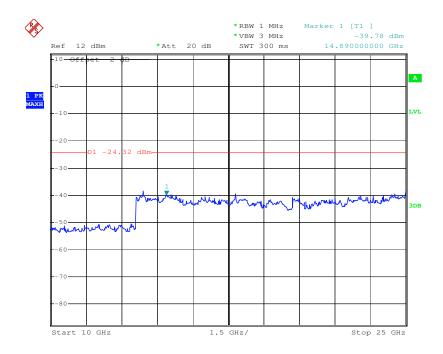






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#### Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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### 6.8 Radiated Spurious Emission

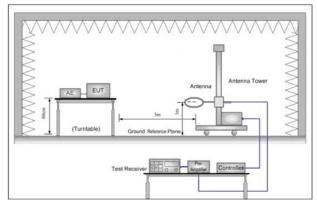
6.8.1 Spurious Emissions						
Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		
Test Method:	ANSI C63.10 :2013 Se	ctior	า 11.12			
Test Site:	Below 1GHz:					
	Measurement Distance	: 3n	n (Semi-Anech	noic Chamb	er)	
	Above 1GHz:					
	Measurement Distance	: 3n	n (Full-Anecho	oic Chambe	r)	1
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	Z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	Z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	Z	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	Z	Average	10kHz	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz		Peak	1MHz	3MHz	Peak
	Above IGH2		Peak	1MHz	10Hz	Average
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30
	1.705MHz-30MHz		30	-	-	30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz		150	43.5	Quasi-peak	3
	216MHz-960MHz	216MHz-960MHz 200		46.0	Quasi-peak	3
	960MHz-1GHz 500		500	54.0	Quasi-peak	3
	Above 1GHz 500		54.0	Average	3	
	Note: 15.35(b), Unless otherwise specified, the limit on pea frequency emissions is 20dB above the maximum permitted average elimit applicable to the equipment under test. This peak limit applies to peak emission level radiated by the device.				rage emission	



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#### Test Setup:



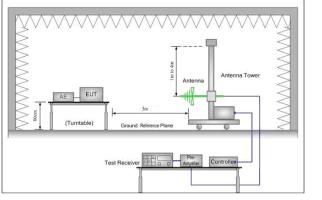


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

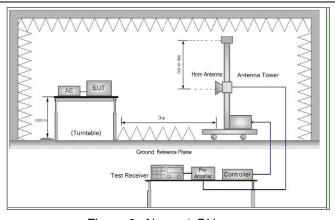


Figure 3. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB

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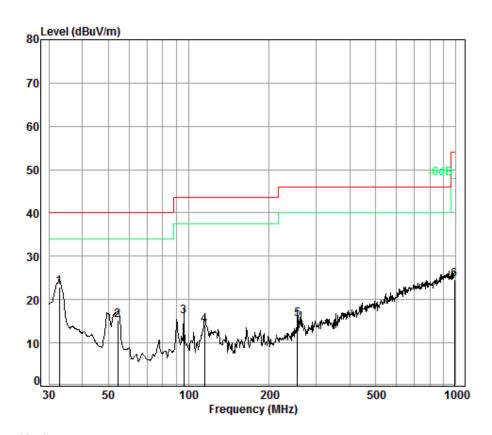
	margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.  h. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)  i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.  j. Repeat above procedures until all frequencies measured was complete.		
Exploratory Test Mode:	Transmitting with GFSK modulation.  a.Charge + Transmitting mode.  b.Transmitting mode.		
Final Test Mode:	Transmitting with GFSK modulation.  Pretest the EUT at Charge + Transmitting mode and Transmitting mode  For below 1GHz part, through pre-scan, the worst case is the lowest channel.  Only the worst case is recorded in the report.		
Instruments Used:	Refer to section 5.10 for details.		
Test Results:	Pass		



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Radiated Emission below 1GHz							
30MHz~1GHz (QP)							
Test mode: Charge + Transmitting mode Vertical							



Condition: 3m VERTICAL

Job No. : 9296CR Mode: : Charge +TX

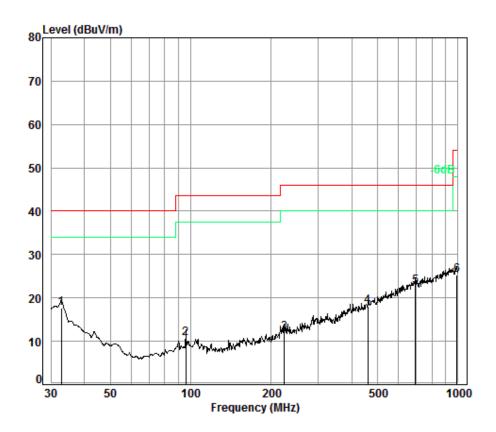
		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
			,			,	,	
1 pp	32.86	0.60	17.10	27.35	32.48	22.83	40.00	-17.17
2	54.26	0.80	8.06	27.28	33.76	15.34	40.00	-24.66
3	96.10	1.16	8.94	27.21	33.23	16.12	43.50	-27.38
4	114.51	1.24	8.28	27.10	31.75	14.17	43.50	-29.33
5	255.62	1.70	12.41	26.52	27.97	15.56	46.00	-30.44
6	986.07	3.69	23.74	26.37	23.50	24.56	54.00	-29.44



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Test mode:	Charge + Transmitting mode	Horizontal
------------	----------------------------	------------



Condition: 3m HORIZONTAL

Job No. : 9296CR Mode: : Charge +TX

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	32.86	0.60	17.10	27.35	27.20	17.55	40.00	-22.45
2	96.10	1.16	8.94	27.21	27.80	10.69	43.50	-32.81
3	223.73	1.54	11.43	26.62	25.69	12.04	46.00	-33.96
4	460.73	2.45	17.29	27.50	25.93	18.17	46.00	-27.83
5	691.99	2.89	21.54	27.42	25.65	22.66	46.00	-23.34
6	989.54	3.69	23.88	26.37	24.10	25.30	54.00	-28.70



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Transmitte	r Emiss	sion above	1GHz						
Test mode:		GFSK	Test	channel:	Lowest		Remark:		Peak
Frequency (MHz)	Antenn Factor (dB/m)	Loss	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	Polarization
3589.562	32.46	7.66	38.51	45.37	46.98	74.	00	-27.02	Vertical
4804.000	34.16	8.87	39.03	47.46	51.46	74.	00	-22.54	Vertical
6087.002	34.77	10.45	38.94	45.33	51.61	74.	00	-22.39	Vertical
7206.000	36.42	10.68	38.18	43.66	52.58	74.	00	-21.42	Vertical
9608.000	37.52	12.50	36.99	40.10	53.13	74.	00	-20.87	Vertical
12173.120	38.71	14.42	38.48	38.95	53.60	74.	00	-20.40	Vertical
3765.116	32.97	7.73	38.59	44.65	46.76	74.	00	-27.24	Horizontal
4804.000	34.16	8.87	39.03	52.77	56.77	74.	00	-17.23	Horizontal
5930.516	34.66	10.37	39.01	45.24	51.26	74.	00	-22.74	Horizontal
7206.000	36.42	10.68	38.18	43.78	52.70	74.	00	-21.30	Horizontal
9608.000	37.52	12.50	36.99	40.13	53.16	74.	00	-20.84	Horizontal
11877.340	38.48	14.43	38.18	38.61	53.34	74.	00	-20.66	Horizontal

Test mode:	st mode: GFSK		Test	Test channel: Lowest		Rema	ark:	Average
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4804.000	34.16	8.87	39.03	45.52	49.52	54.00	-4.48	Horizontal



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Test mode:		GFSK	Tes	t channel:	Middle	Ren	nark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3909.457	33.36	7.78	38.66	45.63	48.11	74.00	-25.89	Vertical
4880.000	34.29	8.97	39.06	49.47	53.67	74.00	-20.33	Vertical
6043.124	34.74	10.50	38.97	44.69	50.96	74.00	-23.04	Vertical
7320.000	36.37	10.72	38.07	43.01	52.03	74.00	-21.97	Vertical
9760.000	37.55	12.58	36.92	40.38	53.59	74.00	-20.41	Vertical
12137.940	38.68	14.45	38.44	39.05	53.74	74.00	-20.26	Vertical
3700.306	32.78	7.71	38.56	43.37	45.30	74.00	-28.70	Horizontal
4880.000	34.29	8.97	39.06	54.59	58.79	74.00	-15.21	Horizontal
6069.413	34.76	10.47	38.96	44.85	51.12	74.00	-22.88	Horizontal
7320.000	36.37	10.72	38.07	43.98	53.00	74.00	-21.00	Horizontal
9760.000	37.55	12.58	36.92	40.12	53.33	74.00	-20.67	Horizontal
11723.670	38.33	14.26	38.03	38.68	53.24	74.00	-20.76	Horizontal

Test mode: GFSK			Test channel: Middle		Remark:		Average			
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Fact (dB	tor	Read Level (dBuV)	Level (dBuV/m)	Limit I (dBu\		Over Limit (dB)	Polarization
4880.000	34.29	8.97	39.0	)6	46.24	50.44	54.0	00	-3.56	Horizontal



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Test mode:		GFSK	Tes	t channel:	Highest	Ren	nark:	Peak
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
3563.687	32.39	7.65	38.50	43.93	45.47	74.00	-28.53	Vertical
4960.000	34.43	9.09	39.09	51.14	55.57	74.00	-18.43	Vertical
6025.661	34.72	10.53	38.98	44.78	51.05	74.00	-22.95	Vertical
7440.000	36.32	10.77	37.94	43.01	52.16	74.00	-21.84	Vertical
9920.000	37.58	12.67	36.84	39.83	53.24	74.00	-20.76	Vertical
12137.940	38.68	14.45	38.44	38.35	53.04	74.00	-20.96	Vertical
3803.444	33.07	7.74	38.61	45.46	47.66	74.00	-26.34	Horizontal
4960.000	34.43	9.09	39.09	54.51	58.94	74.00	-15.06	Horizontal
6087.002	34.77	10.45	38.94	45.63	51.91	74.00	-22.09	Horizontal
7440.000	36.32	10.77	37.94	43.06	52.21	74.00	-21.79	Horizontal
9920.000	37.58	12.67	36.84	39.60	53.01	74.00	-20.99	Horizontal
11740.650	38.34	14.28	38.05	38.52	53.09	74.00	-20.91	Horizontal

Test mode:		GFSK	Te	st channel:	Highest		Rem	ark:	Average
Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit I (dBuV		Over Limit (dB)	Polarization
4960.000	34.43	9.09	39.09	43.29	47.72	54.0	00	-6.28	Vertical
4960.000	34.43	9.09	39.09	46.35	50.78	54.0	00	-3.22	Horizontal

#### Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
  - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the above measurement data were shown in the report.

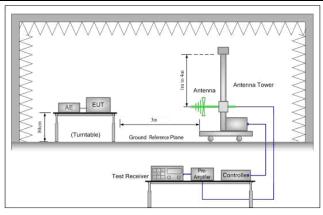


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#### 6.9 Restricted bands around fundamental frequency

		•							
Test Requirement:	47 CFR Part 15C Section 15	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Section	11.12							
Test Site:	Above 1GHz:	Measurement Distance: 3m (Semi-Anechoic Chamber) Above 1GHz:							
	Measurement Distance: 3m (Full-Anechoic Chamber)								
Limit:	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1011-	54.0	Average Value						
	Above 1GHZ	Above 1GHz 74.0 Peak Value							
Test Setup:									



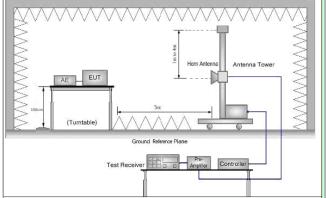


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

#### Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel

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Exploratory Test Mode:	<ul> <li>h. Test the EUT in the lowest channel, the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> <li>Transmitting with GFSK modulation.</li> <li>a.Charge + Transmitting mode.</li> </ul>
Final Toot Made	b.Transmitting mode.  Transmitting with GFSK modulation.
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode and Transmitting mode.  Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

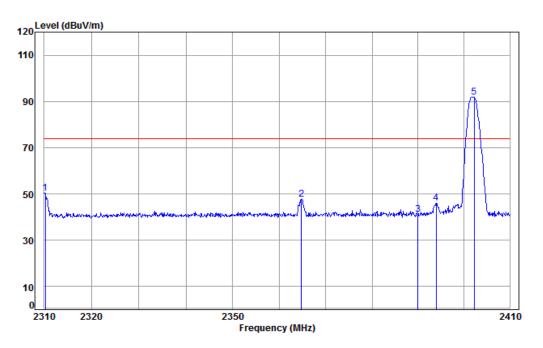


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#### Test plot as follows:

Test channel:	Lowest	Remark:	Peak	Vertical



Condition: 3m VERTICAL Job No: : 9296CR

Mode: : 2402 Band edge

: BLE

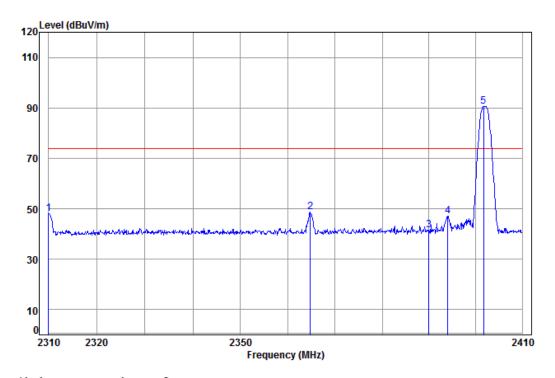
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2310.196								
_	2364.776								
3	2390.000	5.34	29.08	38.14	44.93	41.21	74.00	-32.79	
4	2393.917	5.34	29.09	38.14	49.92	46.21	74.00	-27.79	
5 p	p 2402.250	5.35	29.11	38.15	95.69	92.00	74.00	18.00	



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Condition: 3m Horizontal

Job No: : 9296CR

Mode: : 2402 Band edge

: BLE

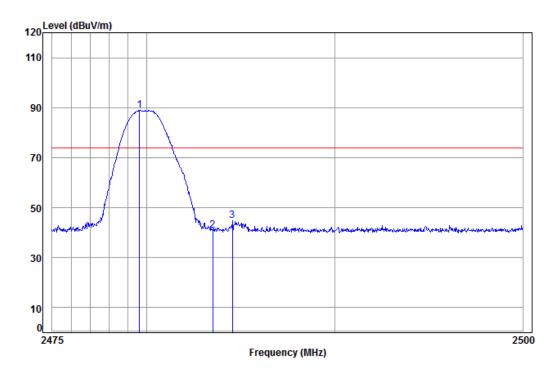
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2310.000	5.27	28.83	38.14	52.14	48.10	74.00	-25.90	
2	2364.776	5.32	29.00	38.14	52.58	48.76	74.00	-25.24	
3	2390.000	5.34	29.08	38.14	45.24	41.52	74.00	-32.48	
4	2394.018	5.34	29.09	38.14	50.77	47.06	74.00	-26.94	
5 pp	2401.741	5.35	29.11	38.15	94.29	90.60	74.00	16.60	



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Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL Job No: : 9296CR

Mode: : 2480 Band edge

: BLE

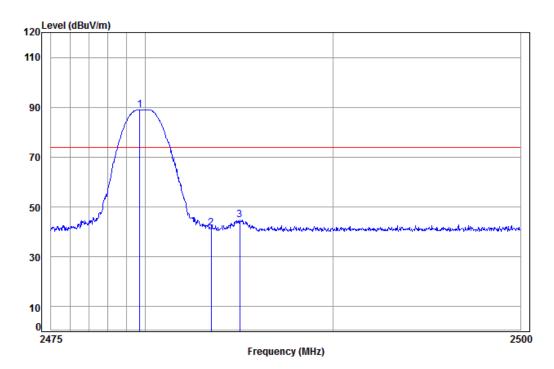
Cable Ant Preamp Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark MHz dB dB/m dB dBuV dBuV/m dBuV/m 1 pp 2479.631 5.40 29.34 38.15 92.26 88.85 74.00 14.85 2483.500 5.41 29.35 38.15 44.28 40.89 74.00 -33.11 2484.545 5.41 29.36 38.15 48.25 44.87 74.00 -29.13



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Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 9296CR

Mode: : 2480 Band edge

: BLE

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2479.706	5.41	29.34	38.15	92.50	89.10	74.00	15.10	
2	2483.500	5.41	29.35	38.15	45.04	41.65	74.00	-32.35	
3	2485.020	5.41	29.36	38.15	48.32	44.94	74.00	-29.06	

#### Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor



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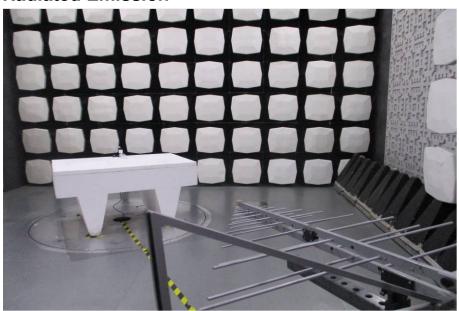
### 7 Photographs - EUT Test Setup

Test model No.: W311

#### 7.1 Conducted Emission



#### 7.2 Radiated Emission

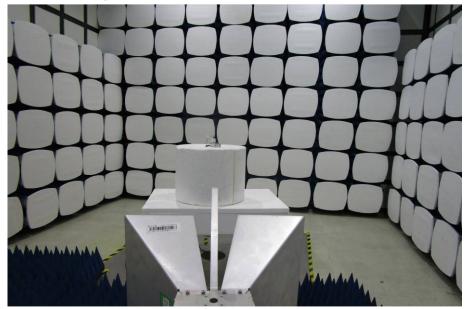




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### 7.3 Radiated Spurious Emission



### 8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1611009456CR.