

No. 1 Workshop, M-10, Middle section, Science & Report No.: ZR/2018/C000704

Technology Park, Nanshan District, Shenzhen, Page: 1 of 48

Guangdong, China 518057

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FCC TEST REPORT

Application No: ZR/2018/C0007

Applicant: WWZN Information Technology Company Limited

Address of Applicant Room 901, 9th Floor, No.19, Zhong Guancun Street, Haidian District,

Beijing, China

Manufacturer: WWZN Information Technology Company Limited

Address of Manufacturer Room 901, 9th Floor, No.19, Zhong Guancun Street, Haidian District,

Beijing, China

Factory: Compal Display Electronics (Kunshan) Co.,Ltd.

Address of Factory No.1881 Liji Road Shipai Bacheng Town, Kunshan, Jiangsu, P.R.China

EUT Description: Smart watch

Model No.: WF11026 (smart watch, 3G/4G/BT/WLAN/NFC/GPS)

Trade Mark: TicWatch

FCC ID: 2AP42-WF11026

Standards: 47 CFR FCC Part 2, Subpart J

47 CFR Part 15, Subpart C

Test Method KDB558074 D01 15.247 Meas Guidance v05

ANSI C63.10 (2013)

Date of Receipt: 2018/12/3

Date of Test: 2018/12/4 to 2018/12/28

Date of Issue: 2018/12/28

Test Result: PASS *

Authorized Signature:

Derde yang

Derek Yang

Wireless 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.

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^{*} In the configuration tested, the EUT complied with the standards specified above.

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1 Version

Revision Record									
Version Chapter Date Modifier Remark									
00		2018/12/28		Original					

Authorized for issue by:		
Tested By	(Mike Hu) /Project Engineer	2018/12/28 Date
	(Wike Hu) /i Toject Engineer	Date
Checked By	David Chen	2018/12/28
	(David Chen) /Reviewer	Date

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2 Test Summary

Test Item	Test Requirement	Test method	Test Result	Result
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Clause 4.3		PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS

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3 General Information

3.1 Client Information

Applicant: WWZN Information Technology Company Limited			
Address of Applicant:	Room 901, 9th Floor, No.19, Zhong Guancun Street, Haidian District, Beijing, China		
Manufacturer:	WWZN Information Technology Company Limited		
Address of Manufacturer:	Room 901, 9th Floor, No.19, Zhong Guancun Street, Haidian District, Beijing, China		
Factory:	Compal Display Electronics (Kunshan) Co.,Ltd.		
Address of Factory:	No.1881 Liji Road Shipai Bacheng Town, Kunshan, Jiangsu, P.R.China		

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch		
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China		
Post code:	518057		
Telephone:	+86 (0) 755 2601 2053		
Fax:	+86 (0) 755 2671 0594		
E-mail:	ee.shenzhen@sgs.com		

3.3 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 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• 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.

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3.4 General Description of EUT

EUT Description::	Smart watch
Model No.:	WF11026 (smart watch, 3G/4G/BT/WLAN/NFC/GPS)
Trade Mark:	TicWatch
Hardware Version:	B2.1
Software Version:	OWDM.181016.006_catshark
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth Version:	BT V4.2 +BLE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	⊠ Portable Device,
Antenna Type:	☐ External, ☐ Integrated
Antenna Gain:	-1dBi
Power Supply	☐ AC/DC Adapter; ☐ Battery; ☐ PoE:; ☐ Other:

	Operation Frequency of each channel							
Channel	hannel 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	

Remark:

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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3.5 Test Environment

Operating Environment				
Temperature:	25.0 °C			
Humidity:	50 % RH			
Atmospheric Pressure:	101.32 KPa			

3.6 Description of Support Units

The EUT has been tested independent unit.

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4 Test results and Measurement Data

4.1 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.

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1dBi.

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4.2 AC Power Line Conducted Emissions

	vei Lille Collaucteu					
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
	Frequency range (MHz)	Limit (dBuV)				
	Troquonoy rango (Wiriz)	Quasi-peak	Average			
Limit:	0.15-0.5	66 to 56*	56 to 46*			
LIIIII.	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarith	hm of the frequency.				
Test Procedure:	 The EUT was connected Stabilization Network) we power cables of all other which was bonded to the for the unit being measured multiple power cables to exceeded. The tabletop EUT was perference plane. And for horizontal ground reference EUT shall be 0.4 m from reference plane was born 1 was placed 0.8 m from ground reference plane. This distance was between the content of the EUT LISN 2. In order to find the maxing the was billing to the content of the EUT LISN 2. 	with a vertical ground reference the vertical ground reference of the vertical ground reference of the unit of the boundary of the unit of the LISNs mounted on top of the een the closest points of the and associated equipment where the community of the relative points to changed according to	a LISN 1 (Line Impedance $^{\circ}$ 5Ω linear impedance. The nected to a second LISN 2, he same way as the LISN 1 t strip was used to connect rating of the LISN was not able 0.8m above the ground the EUT was placed on the ence plane. The rear of the e plane. The vertical ground I reference plane. The LISN under test and bonded to a the ground reference plane. E LISN 1 and the EUT. All was at least 0.8 m from the estitions of equipment and all			
Test Setup:	Shielding Room EUT AC Mains LISN1		ist Receiver			
Test Mode:	Transmitting with GFSK mo- Charge +Transmitting mode).				
Instruments Used:	Refer to section 5.10 for det	ails.				
Test Results:	Pass	rleaf,-available on request or accessible at http://www				

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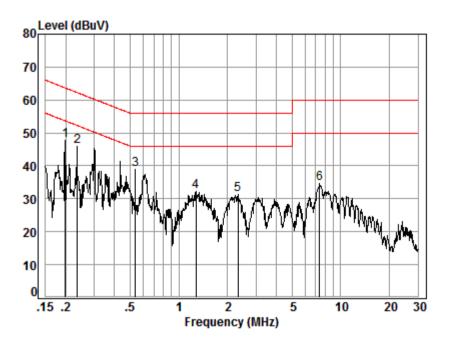
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Measurement Data

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: Line Job No. : C0007

Test mode: e

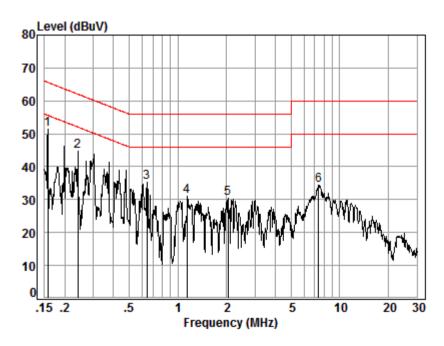
	Freq	Cable	LISN Factor	Read		Limit	Over	Romank
	rreq	LUSS	ractor	rever	rever	LINE	LIMIC	Kelliar K
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.20	0.02	9 66	38.07	17 75	53 67	5 92	Dook
2	0.24	0.02		36.27				
3	0.54	0.06	9.67	29.25	38.98	46.00	-7.02	Peak
4	1.28	0.11	9.73	22.27	32.11	46.00	-13.89	Peak
5	2.32	0.16	9.71	21.32	31.19	46.00	-14.81	Peak
6	7.41	0.17	9.79	24.58	34.54	50.00	-15.46	Peak



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Neutral line:



Site : Shielding Room

Condition: Neutral Job No. : C0007 Test mode: e

7.41

0.17

Cable LISN Read Limit 0ver Loss Factor Line Limit Remark Freq Level Level MHz dB dB dBuV dBuV dBuV dB 0.16 0.01 9.63 41.69 51.33 55.60 -4.27 Peak 0.24 0.03 9.64 34.98 44.65 52.08 -7.43 Peak 0.64 9.64 25.53 35.24 46.00 -10.76 Peak 0.07 1.14 0.10 9.70 21.30 31.10 46.00 -14.90 Peak 2.03 0.16 9.69 20.51 30.36 46.00 -15.64 Peak

34.45 50.00 -15.55 Peak

Remarks:

1

2

3

4

5

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

9.77 24.51

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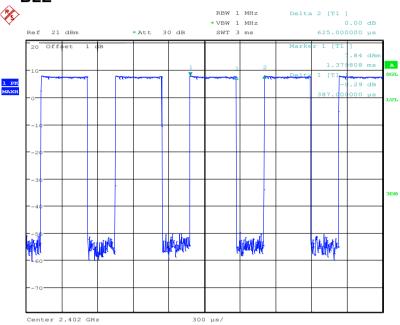
4.3 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE	CH0	61.92

4.3.1 Test Plots

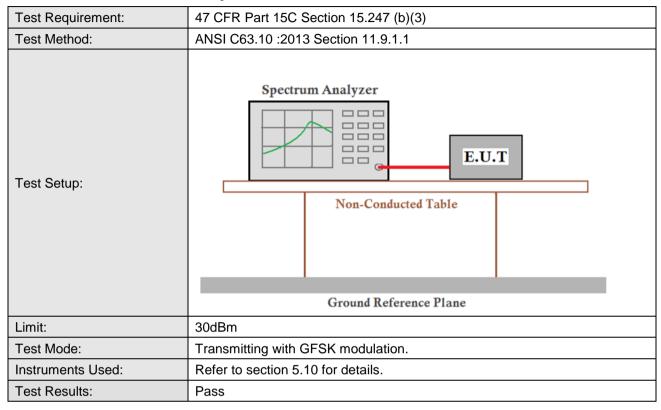
4.3.1.1 BLE



Date: 21.DEC.2018 10:12:18

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4.4 Conducted Output Power



4.4.1 Test Results

Measurement Data of Average Power

GFSK mode								
Test channel	Average Output Power (dBm)	Result						
Lowest	7.96	Report purpose only						
Middle	8.83	Report purpose only						
Highest	7.95	Report purpose only						

Measurement Data of Peak Power:

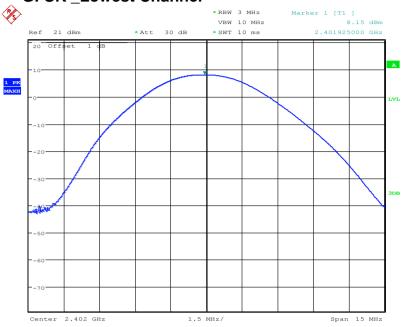
mode and months and on a care to the care									
GFSK mode									
Test channel Peak Output Power (dBm) Limit (dBm) Result									
Lowest	8.15	30.00	Pass						
Middle	9.18	30.00	Pass						
Highest	8.15	30.00	Pass						

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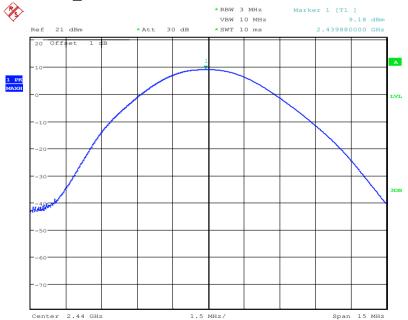
4.4.2 Test plots:

4.4.2.1 GFSK _Lowest Channel



Date: 21.DEC.2018 09:39:14

4.4.2.2 GFSK _Middle Channel



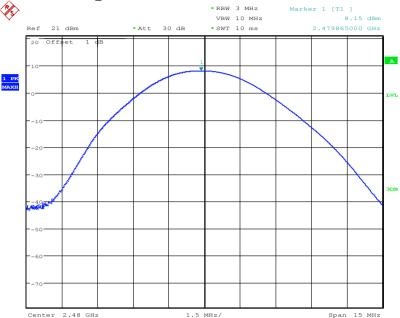
Date: 21.DEC.2018 09:39:56



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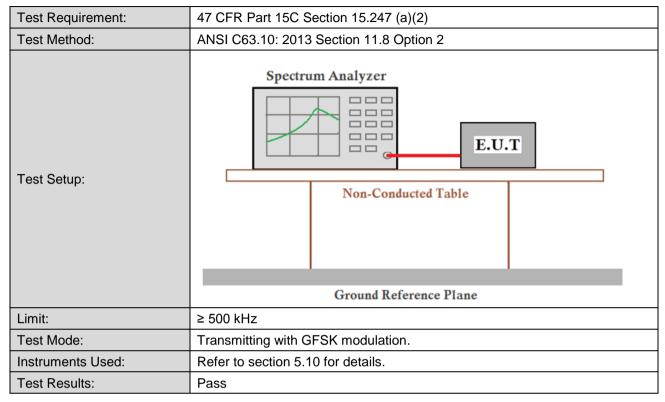
4.4.2.3 GFSK _Highest Channel



Date: 21.DEC.2018 09:40:49

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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth



4.5.1 Test Results

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.065	0.651	≥500	Pass
GFSK	Middle	1.062	0.648	≥500	Pass
	Highest	1.056	0.657	≥500	Pass

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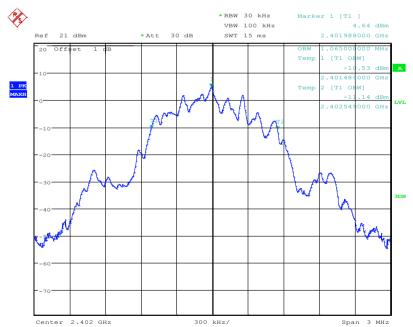
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4.5.2 Test plots

4.5.2.1 GFSK _Lowest Channel



Date: 21.DEC.2018 09:44:18



Date: 21.DEC.2018 09:43:07

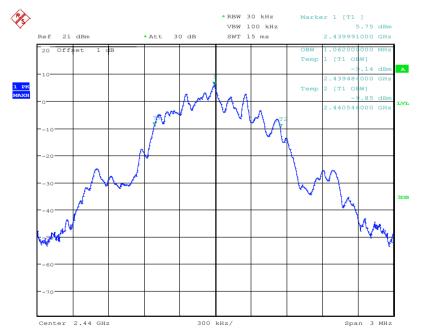
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4.5.2.2 GFSK Middle Channel



Date: 21.DEC.2018 09:44:49



Date: 21.DEC.2018 09:42:43

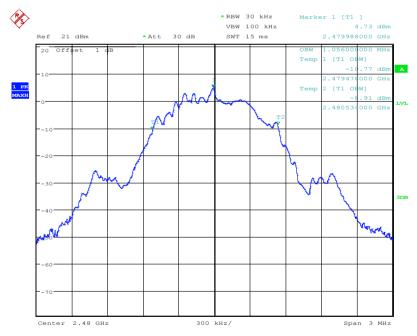
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4.5.2.3 GFSK _Highest Channel



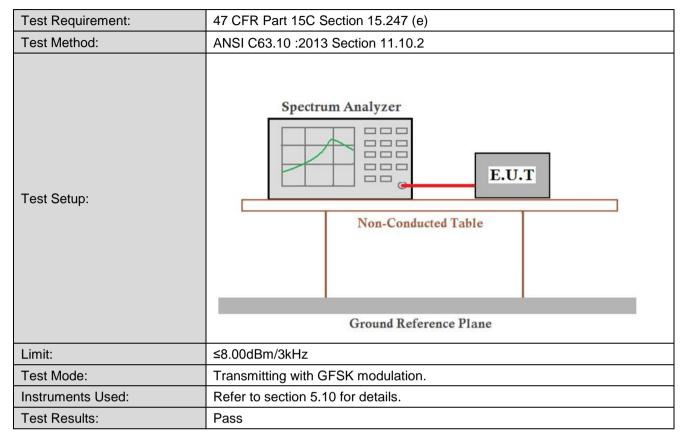
Date: 21.DEC.2018 09:45:25



Date: 21.DEC.2018 09:42:18

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4.6 Power Spectral Density



4.6.1 Test Results

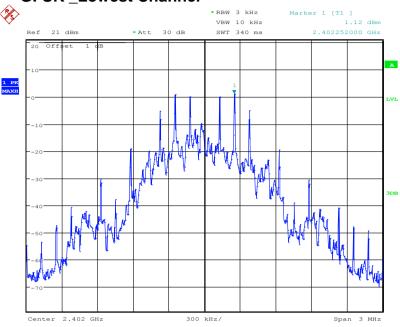
Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	1.12	≤8.00	Pass
GFSK	Middle	1.99	≤8.00	Pass
	Highest	0.96	≤8.00	Pass

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4.6.2 Test plots

4.6.2.1 GFSK _Lowest Channel



Date: 21.DEC.2018 09:47:29

4.6.2.2 GFSK _Middle Channel



Date: 21.DEC.2018 09:47:03

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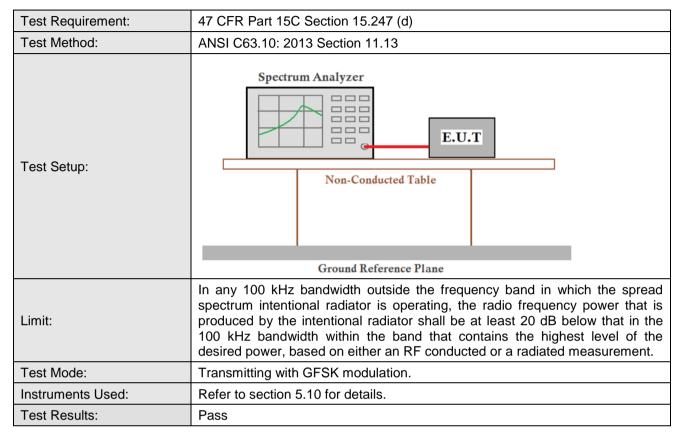
4.6.2.3 GFSK _Highest Channel



Date: 21.DEC.2018 09:46:31

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4.7 Band-edge for RF Conducted Emissions

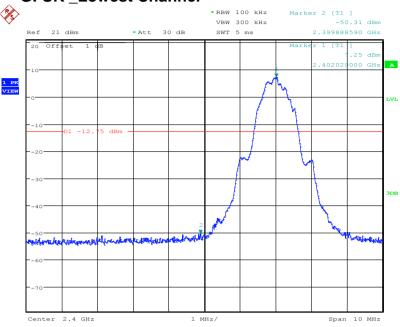


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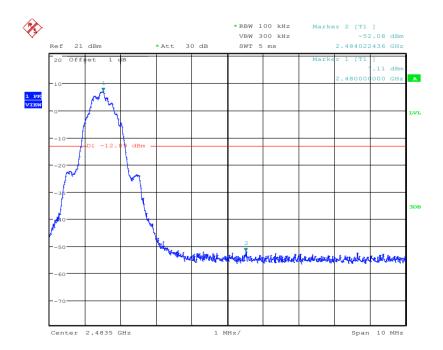
4.7.1 Test plots

4.7.1.1 GFSK _Lowest Channel



Date: 21.DEC.2018 09:50:48

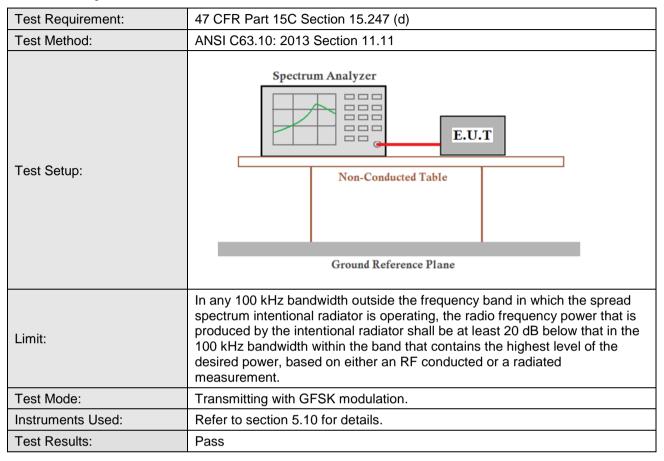
4.7.1.2 GFSK _Highest Channel



Date: 21.DEC.2018 09:52:50

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4.8 Spurious RF Conducted Emissions

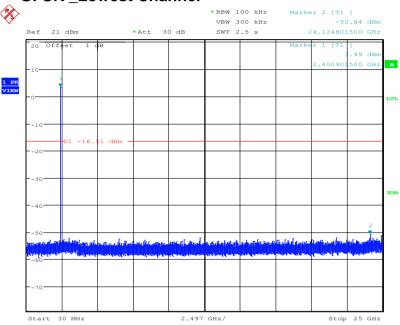


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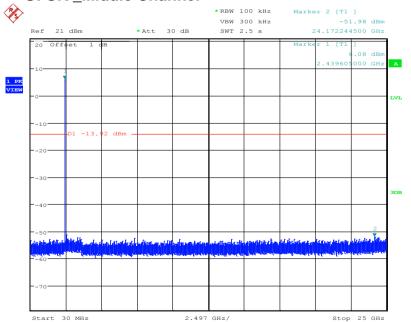
4.8.1 Test plots:

4.8.1.1 GFSK _Lowest Channel



Date: 21.DEC.2018 10:00:43

4.8.1.2 GFSK _Middle Channel



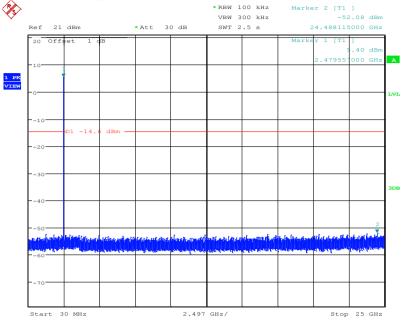
Date: 21.DEC.2018 10:02:34



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4.8.1.3 GFSK _Highest Channel



Date: 21.DEC.2018 10:03:47

Remark:

Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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4.9 Radiated Spurious Emission

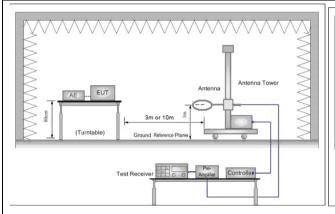
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205									
Test Method:	ANSI C63.10 :2013 Section 11.12									
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)									
	Frequency	Detector	RBW	VBW	Remark					
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak					
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average					
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
Bossiyer Catura	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak					
Receiver Setup:	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average					
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak					
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak					
	Above 1CHz	Peak	1MHz	3MHz	Peak					
	Above 1GHz	Peak	1MHz	10Hz	Average					
	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)					
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300					
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30					
	1.705MHz-30MHz	30	-	-	30					
	30MHz-88MHz	100	40.0	Quasi-peak	3					
Limit:	88MHz-216MHz	150	43.5	Quasi-peak	3					
	216MHz-960MHz	200	46.0	Quasi-peak	3					
	960MHz-1GHz	500	54.0	Quasi-peak	3					
	Above 1GHz	500	54.0	Average	3					
	Remark: 15.35(b), Unless emissions is 20dB above to the equipment under radiated by the device.	e the maximum pe	ermitted ave	rage emission	limit applicable					



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Test Setup:



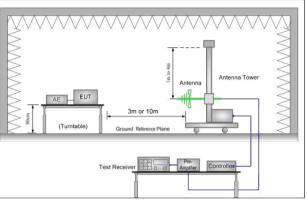


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

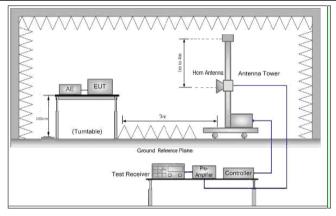


Figure 3. Above 1 GHz

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. 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 semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

Test Procedure:

- 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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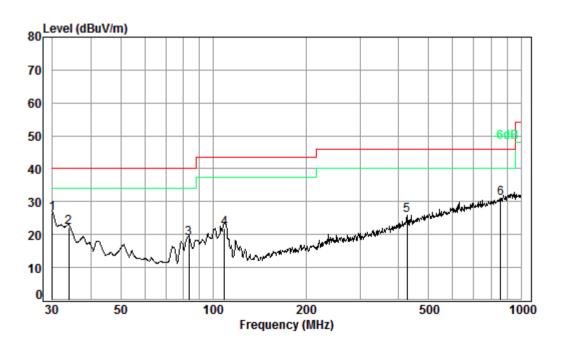
	 margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz) i. The radiation measurements are performed in X, Y, Z axis positioning 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. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + 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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4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting, Vertical



Condition: 3m VERTICAL

Job No. : c0007

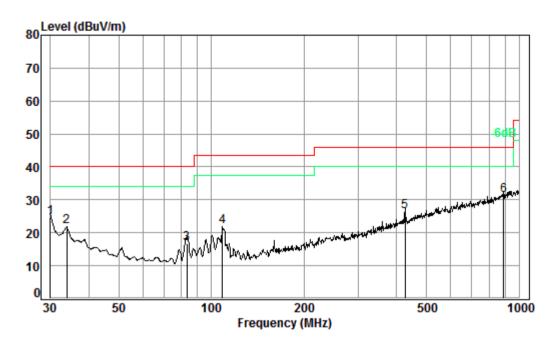
Test mode: e

Freq				Preamp Factor				
_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	30.00	0.60	22.50	27.45	30.74	26.39	40.00	-13.61
2	33.92	0.60	20.37	27.44	28.65	22.18	40.00	-17.82
3	83.23	1.10	12.37	27.37	32.71	18.81	40.00	-21.19
4	108.65	1.22	13.59	27.30	34.37	21.88	43.50	-21.62
5	426.52	2.31	23.03	27.31	27.87	25.90	46.00	-20.10
6	860.04	3.45	29.30	27.28	25.52	30.99	46.00	-15.01

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4.9.1.2 Charge + Transmitting, Horizontal



Condition: 3m HORIZONTAL

Job No. : c0007

Test mode: e

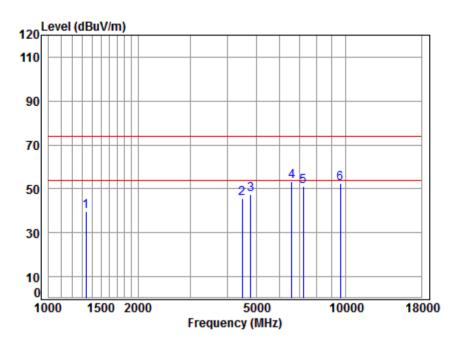
	Frea			Preamp Factor				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0 60	22 50	27.45	29 12	24 77	10 00	_15_23
2	33.92			27.43				
3	83.23			27.37				
4	108.65	1.22	13.59	27.30	34.31	21.82	43.50	-21.68
5	426.52	2.31	23.03	27.31	28.56	26.59	46.00	-19.41
6 pt	890.73	3.56	29.69	27.11	25.17	31.31	46.00	-14.69

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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 GFSK _Lowest Channel_ Peak_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : C0007

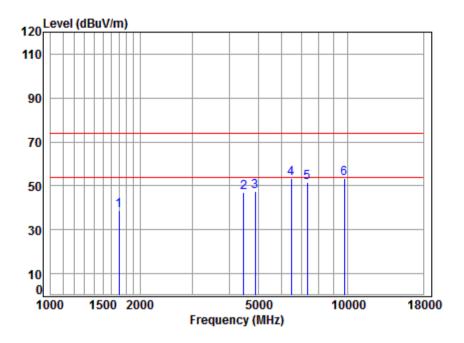
Mode : 2402 TX RSE

		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	1335.141	4.93	25.17	40.59	50.14	39.65	74.00	-34.35	peak
2	4482.150	7.54	33.57	43.29	47.95	45.77	74.00	-28.23	peak
3	4804.000	7.89	33.97	43.61	49.01	47.26	74.00	-26.74	peak
4	6602.265	11.24	35.66	42.32	48.93	53.51	74.00	-20.49	peak
5	7206.000	10.08	36.07	41.86	46.83	51.12	74.00	-22.88	peak
6	9608.000	10.75	37.67	38.43	42.44	52.43	74.00	-21.57	peak

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4.9.2.2 GFSK _Middle Channel_ Peak_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : C0007

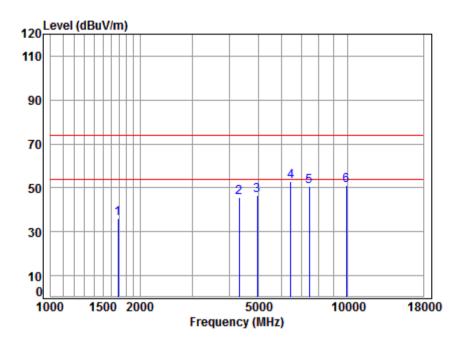
Mode : 2440 TX RSE

		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	1697.129	5.23	26.66	40.83	47.76	38.82	74.00	-35.18	peak
2	4469.214	7.53	33.55	43.27	49.03	46.84	74.00	-27.16	peak
3	4880.000	7.97	34.06	43.69	49.04	47.38	74.00	-26.62	peak
4	6470.026	11.48	35.57	42.43	48.55	53.17	74.00	-20.83	peak
5	7320.000	10.05	36.16	41.77	47.00	51.44	74.00	-22.56	peak
6	9760.000	10.82	37.76	38.18	42.77	53.17	74.00	-20.83	peak

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4.9.2.3 GFSK _High Channel_ Peak_ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : C0007

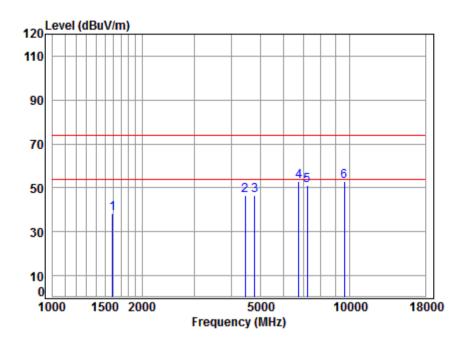
Mode : 2480 TX RSE

		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	1687.347	5.24	26.62	40.82	45.23	36.27	74.00	-37.73	peak
2	4316.859	7.36	33.28	43.11	47.97	45.50	74.00	-28.50	peak
3	4960.000	8.05	34.15	43.76	48.05	46.49	74.00	-27.51	peak
4	6451.353	11.45	35.55	42.44	48.43	52.99	74.00	-21.01	peak
5	7440.000	10.02	36.25	41.69	45.99	50.57	74.00	-23.43	peak
6	9920.000	10.90	37.85	37.93	40.12	50.94	74.00	-23.06	peak

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4.9.2.4 GFSK _Lowest Channel _ Peak _ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : C0007

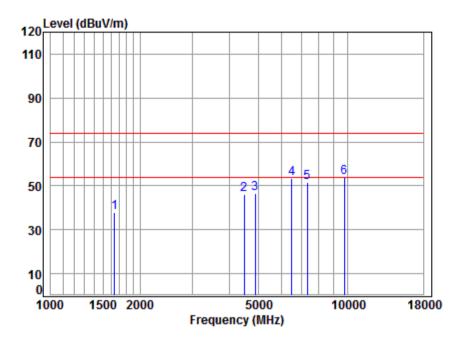
Mode : 2402 TX RSE

		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	1592.571	5.36	26.22	40.77	47.60	38.41	74.00	-35.59	peak
2	4456.315	7.51	33.53	43.26	48.70	46.48	74.00	-27.52	peak
3	4804.000	7.89	33.97	43.61	48.13	46.38	74.00	-27.62	peak
4	6737.207	10.86	35.75	42.21	48.48	52.88	74.00	-21.12	peak
5	7206.000	10.08	36.07	41.86	46.60	50.89	74.00	-23.11	peak
6	9608.000	10.75	37.67	38.43	42.76	52.75	74.00	-21.25	peak

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4.9.2.5 GFSK _Middle Channel _ Peak _ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : C0007

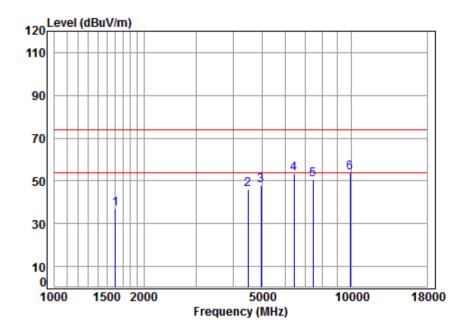
Mode : 2440 TX RSE

		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	1644.019	5.30	26.44	40.80	46.81	37.75	74.00	-36.25	peak
2	4495.125	7.55	33.59	43.30	48.03	45.87	74.00	-28.13	peak
3	4880.000	7.97	34.06	43.69	48.18	46.52	74.00	-27.48	peak
4	6488.754	11.52	35.59	42.41	48.68	53.38	74.00	-20.62	peak
5	7320.000	10.05	36.16	41.77	47.20	51.64	74.00	-22.36	peak
6	9760.000	10.82	37.76	38.18	43.40	53.80	74.00	-20.20	peak

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4.9.2.6 GFSK _High Channel _ Peak _ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : C0007

Mode : 2480 TX RSE

		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	1606.441	5.34	26.28	40.77	46.27	37.12	74.00	-36.88	peak
2	4495.125	7.55	33.59	43.30	48.31	46.15	74.00	-27.85	peak
3	4960.000	8.05	34.15	43.76	49.31	47.75	74.00	-26.25	peak
4	6414.167	11.38	35.52	42.48	48.84	53.26	74.00	-20.74	peak
5	7440.000	10.02	36.25	41.69	45.97	50.55	74.00	-23.45	peak
6	9920.000	10.90	37.85	37.93	42.83	53.65	74.00	-20.35	peak



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Remark:

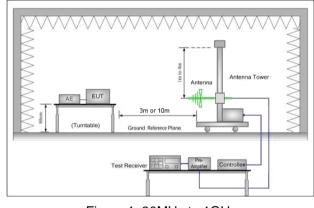
 The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz was very low, and the above harmonics were the highest point could be found when testing, 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 peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.

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4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Secti	on 11.12							
Test Site:	Measurement Distance: 3	Bm or 10m (Semi-Anechoic	Chamber)						
	Frequency	Limit (dBuV/m @3m)	Remark						
	0.009MHz-0.490MHz	-	-						
	0.490MHz-1.705MHz	-	-						
	1.705MHz-30MHz	-	-						
Limit:	30MHz-88MHz	40.0	Quasi-peak Value						
LIIIII.	88MHz-216MHz	43.5	Quasi-peak Value						
	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1CU-	54.0	Average Value						
	Above 1GHz	74.0	Peak Value						
Test Setup:									



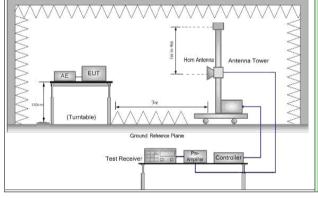


Figure 1. 30MHz to 1GHz

Test Procedure:

Figure 2. Above 1 GHz

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. 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 semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 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
- h. Test the EUT in the lowest channel, the Highest channel

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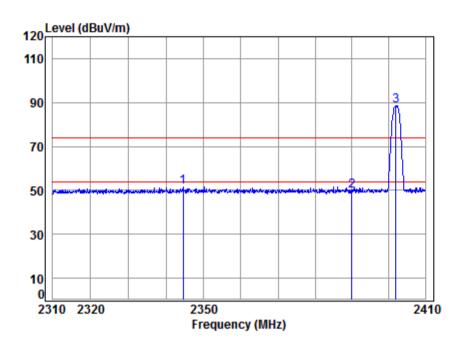
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	 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + 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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4.10.1 Test plots

4.10.1.1 Worst Case Mode(GFSK) Lowest Channel_ Peak_ Vertical



Site : chamber Condition: 3m VERTICAL

Job No : C0007

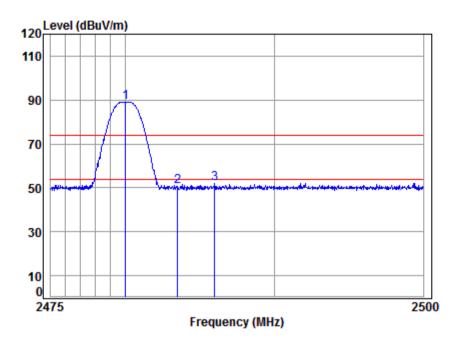
Mode : 2402 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2344.519	5.41	28.44	41.15	59.08	51.78	74.00	-22.22	peak
2	2390.000	5.47	28.52	41.17	56.90	49.72	74.00	-24.28	peak
3 *	2402.000	5.49	28.54	41.18	95.51	88.36	74.00	14.36	peak

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4.10.1.2 Worst Case Mode(GFSK) Highest Channel_ Peak_ Vertical



Site : chamber

Condition: 3m VERTICAL

Job No : C0007

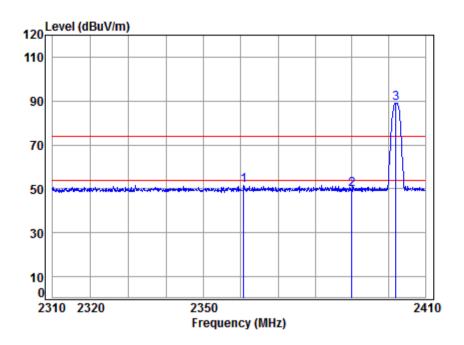
Mode : 2480 Band edge

		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 *	2480.000	5.59	28.67	41.21	96.08	89.13	74.00	15.13	peak
2	2483.500	5.60	28.67	41.21	57.41	50.47	74.00	-23.53	peak
3	2485.969	5.60	28.68	41.21	59.08	52.15	74.00	-21.85	peak

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4.10.1.3 Worst Case Mode(GFSK) Lowest Channel_ Peak_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : C0007

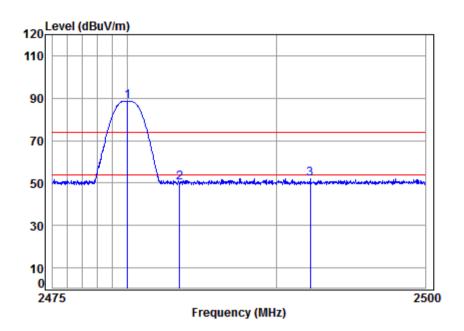
Mode : 2402 Band edge

	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
	2360.771								•
	2390.000								•
3	* 2402.000	5.49	28.54	41.18	96.24	89.09	74.00	15.09	peak

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4.10.1.4 Worst Case Mode(GFSK) Highest Channel_ Peak_ Horizontal



Site : chamber

Condition: 3m HORIZONTAL

Job No : C0007

Mode : 2480 Band edge

Note : BLE

Freq			Preamp Factor					Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
* 2480.000								•
2483.500								•
2492.273	5.61	28.69	41.21	58.92	52.01	74.00	-21.99	peak

Remark:

1 2 3

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 All Modes have been tested, but only the worst case data displayed in this report.

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5 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty		
1	Total RF power, conducted	±0.75dB		
2	RF power density, conducted	±2.84dB		
3	Spurious emissions, conducted	±0.75dB		
4	Dedicted Spurious emission test	±4.5dB (30MHz-1GHz)		
4	Radiated Spurious emission test	±4.8dB (1GHz-25GHz)		
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)		
6	Temperature test	±1°C		
7	Humidity test	±3%		
8	DC and low frequency voltages	±0.5%		

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6 Equipment List

Conducted Emission									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate				
rest Equipment	Wandacture	Woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9				
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2				
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1				
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11				
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2019/2/11	2020/2/10				
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/4/2	2019/4/1				

RF conducted test									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate				
rest Equipment	Wandacturer	Wiodel No.	inventory ivo.	(yyyy-mm-dd)	(yyyy-mm-dd)				
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2018/9/15	2019/9/15				
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12				
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/13	2019/7/12				
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A				
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2				
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/27	2019/11/27				
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2				
	RE	in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date				
rest Equipment	Wandacturer	woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)				
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4				
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A				
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11				
MXE EMI Receiver (20Hz- 8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2				
BiConiLog Antenna (26- 3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26				
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2018/4/2	2019/4/1				

	RE in Chamber									
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date					
rest Equipment	Walldlacturei	Wiodel No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)					
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12					
Measurement Software	AUDIX	e3V8.2014-6-27	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11					
EXA Signal Analyzer (10Hz- 26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2018/4/13	2019/4/12					
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26					
Horn Antenna (0.8-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12					
Pre-amplifier(0.1-1.3GHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2					
Low Noise Amplifier(100MHz-18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2018/9/27	2019/9/27					
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16					
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018/4/2	2019/4/1					
Band filter	N/A	N/A	SEM023-01	N/A	N/A					



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RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/4/2	2019/4/1
Trilog-Broadband Antenna(25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28
Pre-amplifier (9k-1GHz)	Sonoma	310N	SEM005-03	2018/4/13	2019/4/12
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2018/C0007.

The End