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FCC TEST REPORT

Application No: ZR/2020/B0030

Applicant: Sony Mobile Communications, Inc.

Address of Applicant 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan

Manufacturer: Sony Mobile Communications, Inc.

Address of Manufacturer 4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan **EUT Description:** GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC

Trade Mark: Sony

FCC ID: PY7-10933K

Standards: 47 CFR FCC Part 2, Subpart J

47 CFR Part 15, Subpart C

KDB 558074 D01 DTS Meas Guidance v0502

Test Method ANSI C63.4(2014)

ANSI C63.10 (2013)

Date of Receipt: 2020/11/19

Date of Test: 2020/11/19 to 2020/12/18

Date of Issue: 2021/7/4

Test Result: PASS *

Authorized Signature:

Derde yang

Derek Yang Wireless Laboratory Manager



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

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Version 1

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2020/12/20		Original		
02		2021/5/15	Sherlock Fang	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list		

^{*}This report supersedes our previous report ZR/2020/B0003003, issued on 2020-12-20, which is hereby deemed null and void.

Authorized for issue by:	
Prepared By	Sherlock Fans
	(Sherlock Fang) / Engineer
Checked By	Turthy
	(Jim Huang) / Reviewer



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Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result	Test Lab*
AC Power Line Conducted Emission	15.207	ANSI C63.10 (2013)	Clause 4.3	PASS	В
Conducted Peak Output Power	15.247 (b)(1)	ANSI C63.10 (2013)	Clause 4.5	PASS	Α
20dB Emission Bandwidth	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.6	PASS	Α
Carrier Frequencies Separation	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.7	PASS	Α
Hopping Channel Number	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.8	PASS	Α
Dwell Time	15.247 (a)(1)	ANSI C63.10 (2013)	Clause 4.9	PASS	Α
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.10	PASS	Α
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 (2013)	Clause 4.11	PASS	Α
Radiated Spurious emissions	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.12	PASS	В
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d); 15.205/15.209	ANSI C63.10 (2013)	Clause 4.13	PASS	В

Remark: All test were performed by Lab A and B. Parts of test items above were subcontracted to Lab B.

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

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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3 General Information

3.1 Client Information

Applicant:	Sony Mobile Communications, Inc.		
Address of Applicant:	4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan		
Manufacturer:	Sony Mobile Communications, Inc.		
Address of Manufacturer:	4-12-3 Higashi-shinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan		

3.2 Test Location

Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address: No. 1 Workshop, M-10, Middle section, Science & Technology Shenzhen, Guangdong, China	
Post code:	518057
Test Engineer	Dee Zheng, Mike Hu

I ab B:

Eup D.		
Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.	
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China	
Post code:	710086	
Test Engineer	Ben Huang, Lean Chen	



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3.3 **Test Facility**

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

Lab A:

• 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.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	GSM/WCDMA/LTE Phone with BT, DTS/UNII a/b/g/n/ac, GPS and NFC		
Trade Mark:	Sony		
S/N:	001265ADNVM2		
Operation Frequency:	2402MHz~2480MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.		
Bluetooth Version:	Bluetooth V5.0		
Modulation Type:	GFSK		
Number of Channel:	40		
Sample Type:	□ Portable Device, □ Module		
Antenna Type:	☐ External, ☑ Integrated		
Antenna Gain:	-3.0dBi		

Operation Frequency of each 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

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	

3.5 Test Environment



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

Description of Support Units 3.6

The EUT has been tested independent unit.



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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 -3.0dBi.



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4.2 AC Power Line Conducted Emissions

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)		
		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 below the standard of the EUT LISN 2. 	with a vertical ground reference to the vertical ground reference anded to the horizontal ground me the boundary of the unit of the LISNs mounted on top of the deen the closest points of the and associated equipment we mum emission, the relative points be changed according to	a LISN 1 (Line Impedance $= 5\Omega$ linear impedance. The nected to a second LISN 2, he same way as the LISN 1 at 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 a 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 positions of equipment and all	



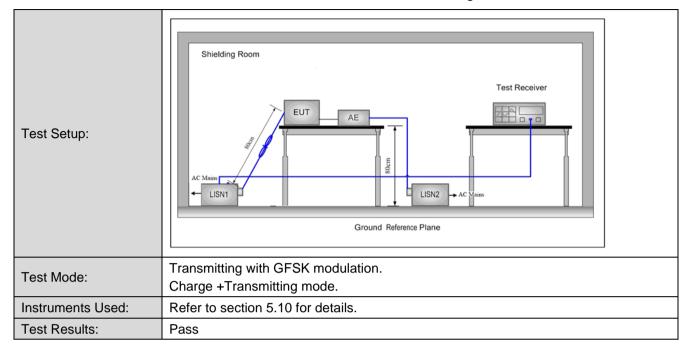
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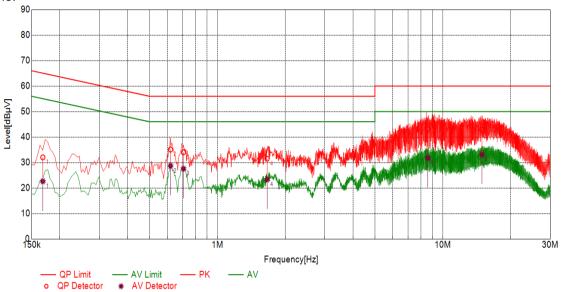
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Measurement Data

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:



Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1682	10.10	32.04	65.05	33.01	22.64	55.05	32.41	L
2	0.6199	10.10	35.10	56.00	20.90	28.71	46.00	17.29	L
3	0.7077	10.10	34.04	56.00	21.96	27.58	46.00	18.42	L
4	1.6602	10.10	31.48	56.00	24.52	23.38	46.00	22.62	L
5	8.5887	10.10	43.07	60.00	16.93	31.80	50.00	18.20	L
6	14.9100	10.11	42.85	60.00	17.15	33.16	50.00	16.84	L



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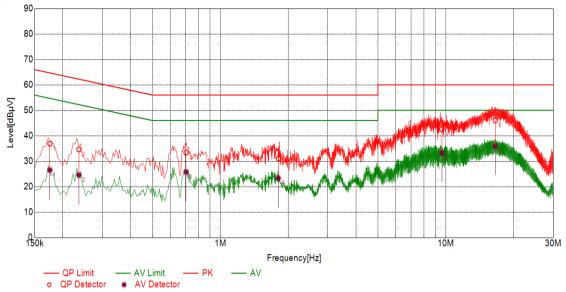
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Neutral line:



Final	Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	Туре
1	0.1754	10.10	36.87	64.70	27.83	26.52	54.70	28.18	N
2	0.2358	10.10	34.63	62.24	27.61	24.60	52.24	27.64	Ν
3	0.7043	10.10	33.40	56.00	22.60	25.80	46.00	20.20	N
4	1.8067	10.10	31.03	56.00	24.97	23.39	46.00	22.61	Ν
5	9.6018	10.10	42.55	60.00	17.45	33.27	50.00	16.73	N
6	16.5513	10.11	46.01	60.00	13.99	36.01	50.00	13.99	N

Remarks:

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

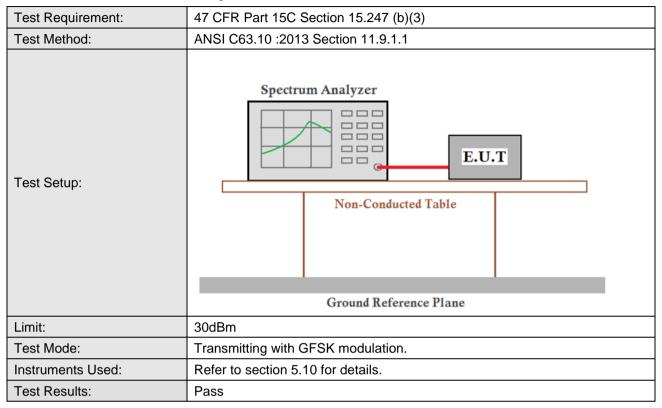


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4.3 Conducted Output Power



4.3.1 Test Results

Measurement Data of Peak Power:

mode di mode d								
GFSK_1M mode								
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result					
Lowest	-3.36	30.00	Pass					
Middle	-1.74	30.00	Pass					
Highest	-2.98	30.00	Pass					

GFSK_2M mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	-3.35	30.00	Pass			
Middle	-1.83	30.00	Pass			
Highest	-2.98	30.00	Pass			



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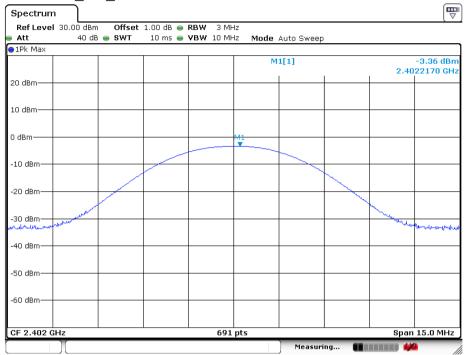


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Test plots: 4.3.2

4.3.2.1 GFSK 1M Lowest Channel



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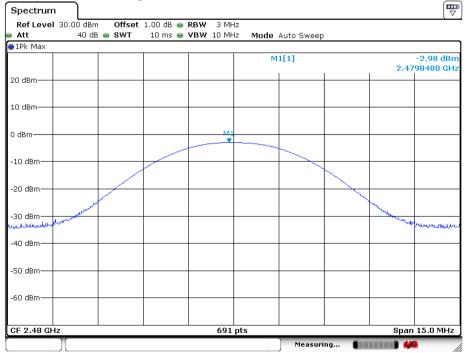
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4.3.2.2 GFSK _1M _Middle Channel



Date: 1.DEC 2020 14:05:12

4.3.2.3 GFSK _1M _Highest Channel



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4.3.2.4 GFSK _2M_Lowest Channel



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4.3.2.5 GFSK 2M Middle Channel



Date: 1.DEC 2020 14:07:17



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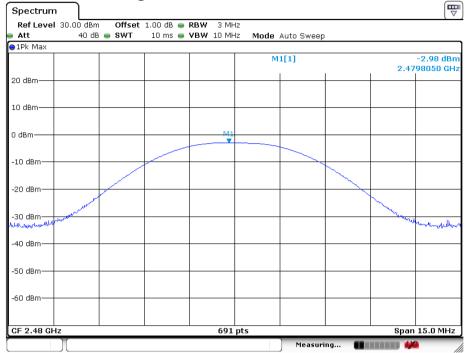
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4.3.2.6 GFSK _2M _Highest Channel



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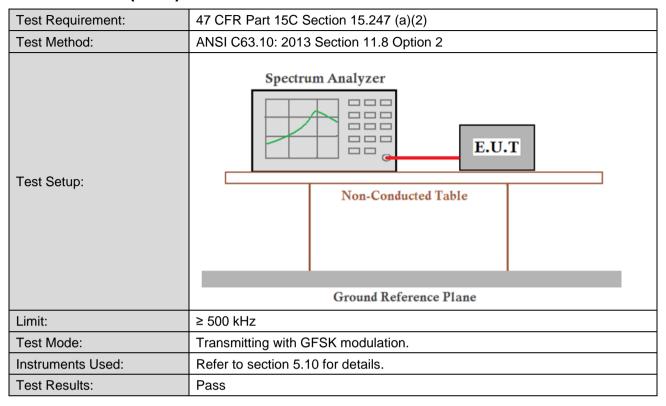
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4.4 DTS (6 dB) Bandwidth



4.4.1 Test Results

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	0.68	≥500	Pass
GFSK_1M	Middle	0.67	≥500	Pass
	Highest	0.68	≥500	Pass

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
	Lowest	1.17	≥500	Pass
GFSK_2M	Middle	1.23	≥500	Pass
	Highest	1.22	≥500	Pass



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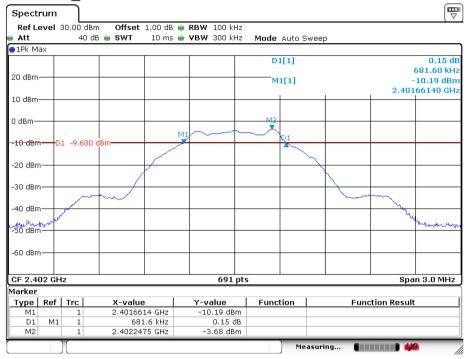


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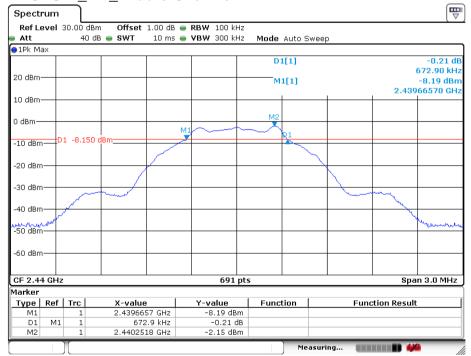
4.4.2 Test plots

4.4.2.1 GFSK 1M Lowest Channel



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4.4.2.2 GFSK 1M Middle Channel



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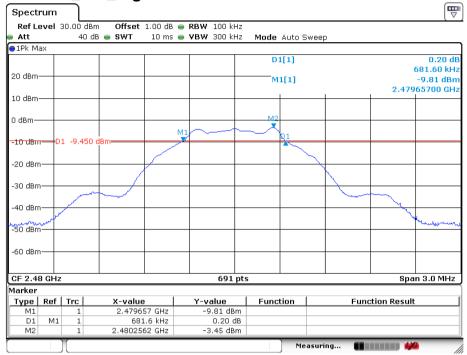
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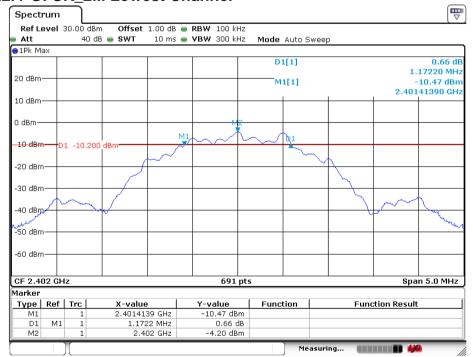
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4.4.2.3 GFSK_1M _Highest Channel



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4.4.2.4 GFSK_2M Lowest Channel



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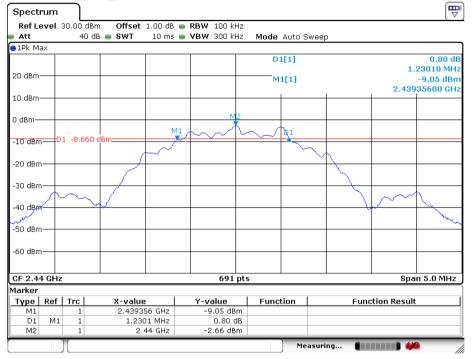
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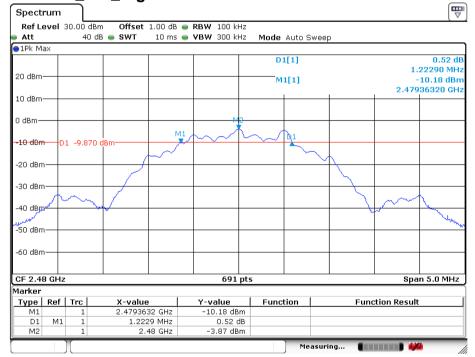
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4.4.2.5 GFSK _2M_Middle Channel



Date: 1.DEC 2020 14:11:18

4.4.2.6 GFSK_2M _Highest Channel



Date:1.DEC.2020 14:10:14



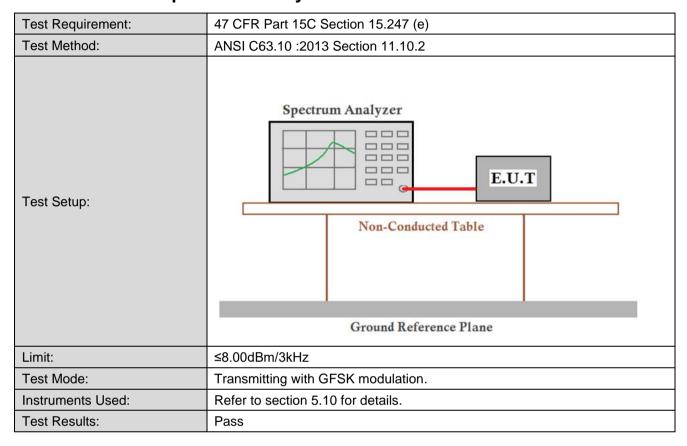
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4.5 Power Spectral Density



4.5.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
	Lowest	-3.36	≤8.00	Pass
GFSK 1M	Middle	-1.74	≤8.00	Pass
_	Highest	-2.98	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK 2M	Lowest	-3.35	≥8.00	Pass
	Middle	-1.83	≤8.00	Pass
_	Highest	-2.98	≤8.00	Pass



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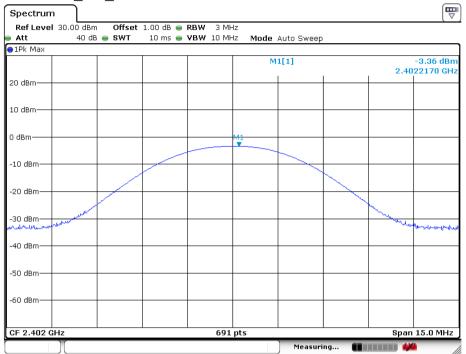


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4.5.2 Test plots

4.5.2.1 GFSK 1M Lowest Channel



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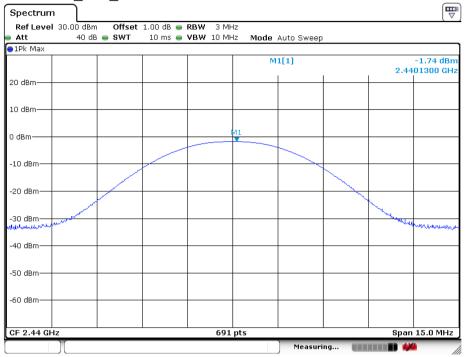
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4.5.2.2 GFSK _1M _Middle Channel



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4.5.2.3 GFSK _1M _Highest Channel



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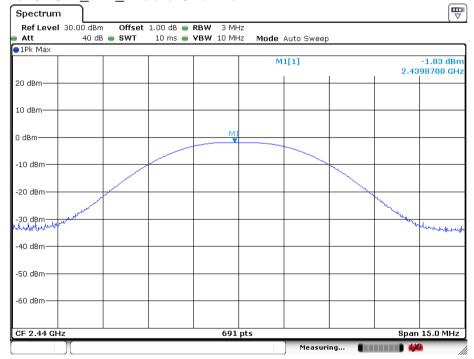
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4.5.2.4 GFSK _2M_Lowest Channel



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4.5.2.5 GFSK 2M Middle Channel



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4.5.2.6 GFSK _2M _Highest Channel



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4.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)			
Test Method:	ANSI C63.10: 2013 Section 11.13			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
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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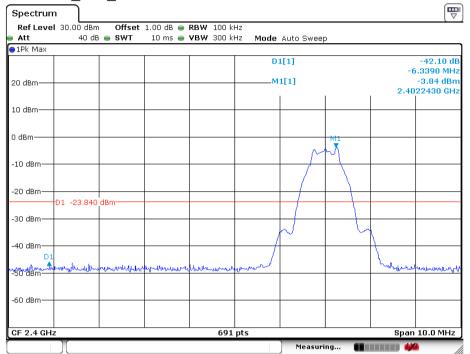


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Test plots 4.6.1

4.6.1.1 GFSK 1M Lowest Channel



Date: 1 DEC 2020 14:29:23



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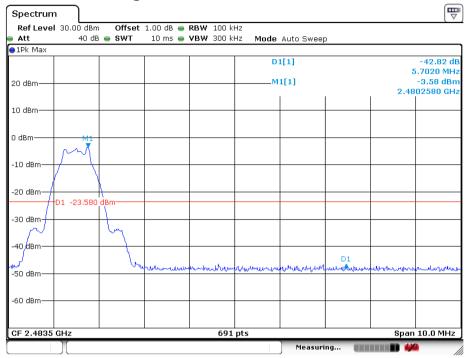
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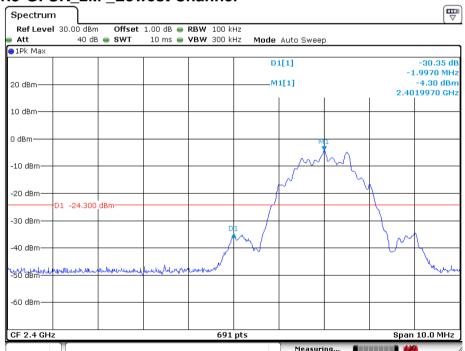
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4.6.1.2 GFSK_1M _Highest Channel



Date: 1.DEC .2020 14:30:17

4.6.1.3 GFSK_2M _Lowest Channel



Date: 1.DEC 2020 14:31:56



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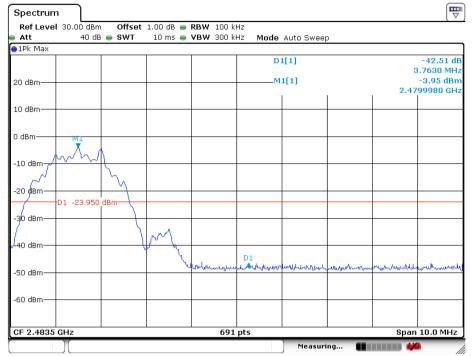
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4.6.1.4 GFSK_2M _Highest Channel



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4.7 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			
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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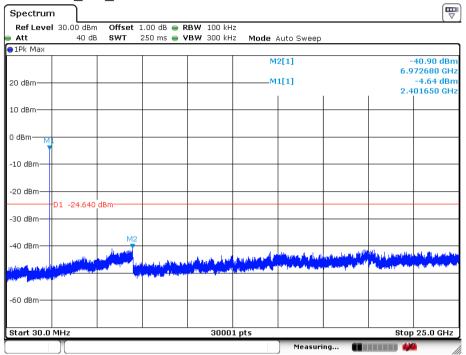


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4.7.1 Test plots:

4.7.1.1 GFSK 1M Lowest Channel



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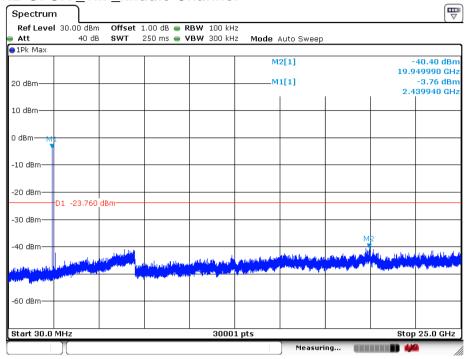
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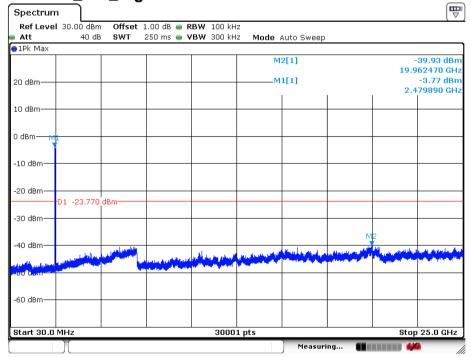
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4.7.1.2 GFSK _1M _Middle Channel



Date: 1.DEC .2020 14:41:54

4.7.1.3 GFSK_1M _Highest Channel



Date:1.DEC.2020 14:41:13



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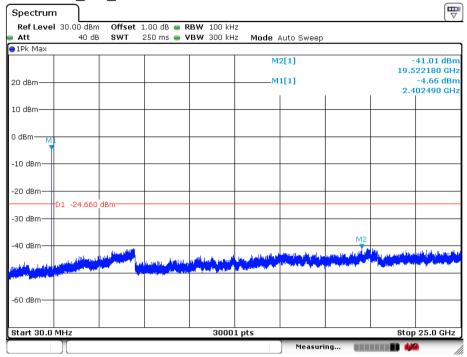
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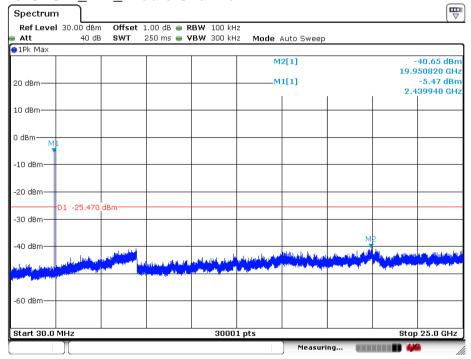
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4.7.1.4 GFSK _2M_Lowest Channel



Date:1.DEC.2020 14:33:57

4.7.1.5 GFSK 2M Middle Channel



Date:1.DEC.2020 14:34:53



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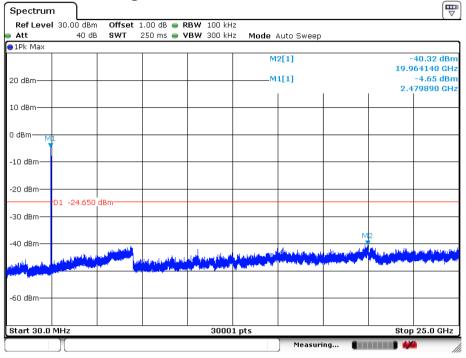
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4.7.1.6 GFSK_2M _Highest Channel



Date: 1.DEC .2020 14:35:59

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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4.8 **Radiated Spurious Emission**

Test Requirement:	47 CFR Part 15C Section	n 15.209 and 15.2	205				
Test Method:	ANSI C63.10 :2013 Sec	tion 11.12					
Test Site:	Measurement Distance:	3m or 10m (Semi	-Anechoic C	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		
Possiver Setup	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 1GHz	Peak	1MHz	3MHz	Peak		
	Above IGHZ	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 otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.						

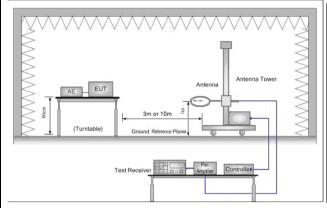




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Test Setup:



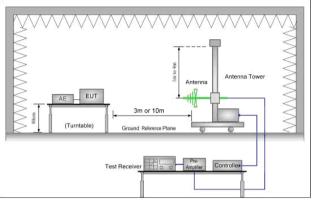


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

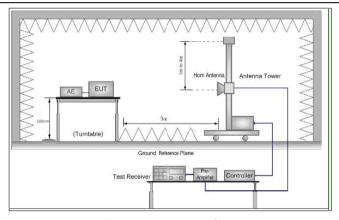


Figure 3. Above 1 GHz

- 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.
- 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.

Test Procedure:



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	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 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.				
Exploratory Test Mode.	Charge + Transmitting mode.				
	Transmitting with GFSK modulation.				
Final Test Mode:	Pretest the EUT at Charge + Transmitting mode,				
Tillal Test Wode.	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				

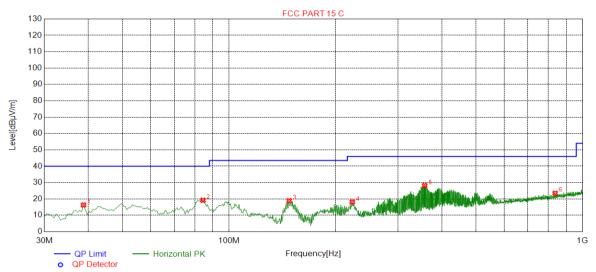




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4.8.1 **Radiated Emission below 1GHz** 4.8.1.1 Charge + Transmitting



Suspe	Suspected List										
NO.	Freq.	Level	Limit	Margin	Height	Angle	Polarity				
1101	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	,				
1	38.7344	16.33	40.00	23.67	185	19	Horizontal				
2	84.3472	19.18	40.00	20.82	279	255	Horizontal				
3	147.9140	18.89	43.50	24.61	198	87	Horizontal				
4	223.1266	18.11	46.00	27.89	246	202	Horizontal				
5	357.5388	28.22	46.00	17.78	295	130	Horizontal				
6	836.4732	23.49	46.00	22.51	242	316	Horizontal				

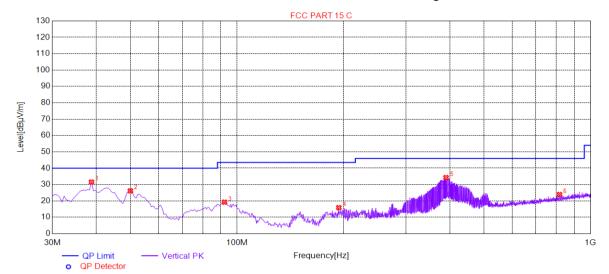
Final Data List





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Suspe	Suspected List										
NO.	Freq.	Level	Limit	Margin	Height	Angle	Date 3				
	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	38.7344	31.56	40.00	8.44	248	345	Vertical				
2	49.8949	26.18	40.00	13.82	293	336	Vertical				
3	92.1111	19.26	43.50	24.24	182	93	Vertical				
4	194.0120	15.90	43.50	27.60	254	348	Vertical				
5	390.0500	34.29	46.00	11.71	214	118	Vertical				
6	817.0635	23.94	46.00	22.06	162	329	Vertical				

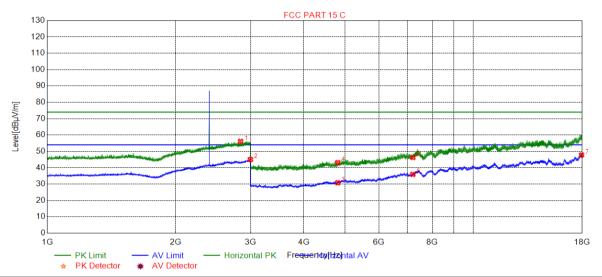
Final Data List



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Transmitter Emission above 1GHz 4.8.2 4.8.2.1 BLE_1M_Channel 0



Suspe	Suspected List										
NO	Freq.	Level	Limit	Margin	Height	Angle	D 1 ''				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2842.460	56.14	74.00	17.86	226	88	Horizontal				
2	2996.499	45.07	54.00	8.93	103	14	Horizontal				
3	4804.000	30.83	54.00	23.17	185	329	Horizontal				
4	4804.000	43.16	74.00	30.84	178	73	Horizontal				
5	7206.000	35.95	54.00	18.05	178	38	Horizontal				
6	7206.000	46.29	74.00	27.71	240	124	Horizontal				
7	17925.74	47.80	54.00	6.20	238	55	Horizontal				

Final Data List

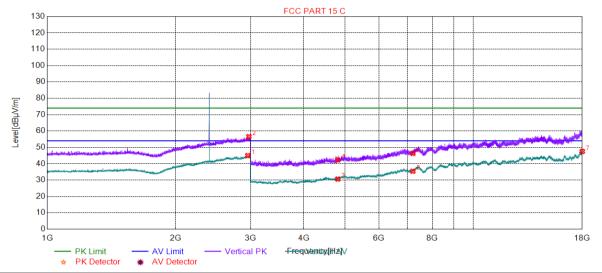




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4.8.2.2 BLE_1M_Channel 0



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2954.988	44.99	54.00	9.01	290	153	Vertical				
2	2971.492	56.55	74.00	17.45	218	132	Vertical				
3	4804.000	30.64	54.00	23.36	278	202	Vertical				
4	4804.000	42.37	74.00	31.63	150	219	Vertical				
5	7206.000	35.43	54.00	18.57	206	287	Vertical				
6	7206.000	46.30	74.00	27.70	269	31	Vertical				
7	18000.00	47.54	54.00	6.46	170	236	Vertical				

Final Data List

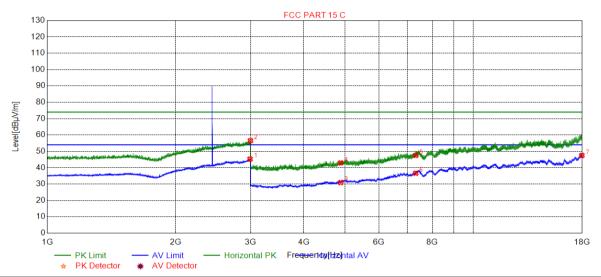




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4.8.2.3 BLE_1M_Channel 19



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2990.497	45.37	54.00	8.63	129	103	Horizontal				
2	2996.999	56.55	74.00	17.45	238	332	Horizontal				
3	4880.000	30.95	54.00	23.05	153	278	Horizontal				
4	4880.000	43.00	74.00	31.00	235	312	Horizontal				
5	7320.000	47.55	74.00	26.45	211	140	Horizontal				
6	7320.000	36.65	54.00	17.35	232	192	Horizontal				
7	17961.74	47.49	54.00	6.51	211	55	Horizontal				

Final Data List

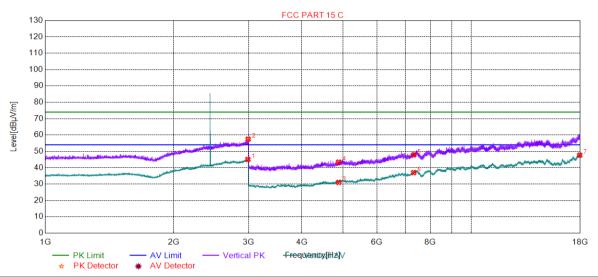




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4.8.2.4 BLE_1M_Channel 19



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2987.997	45.08	54.00	8.92	156	34	Vertical				
2	2992.498	57.49	74.00	16.51	296	112	Vertical				
3	4880.000	31.07	54.00	22.93	180	219	Vertical				
4	4880.000	43.44	74.00	30.56	259	14	Vertical				
5	7320.000	47.82	74.00	26.18	240	305	Vertical				
6	7320.000	37.04	54.00	16.96	211	116	Vertical				
7	17942.99	47.70	54.00	6.30	202	254	Vertical				

Final Data List

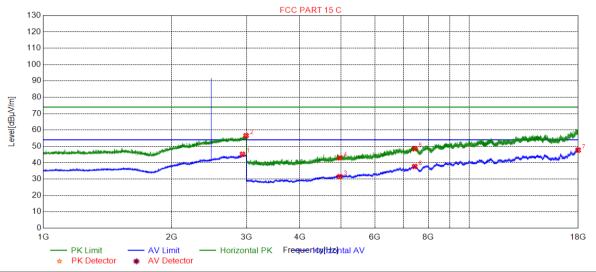




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4.8.2.5 BLE_1M_Channel 39



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2933.483	45.20	54.00	8.80	199	41	Horizontal				
2	2991.998	56.55	74.00	17.45	169	315	Horizontal				
3	4960.000	31.56	54.00	22.44	216	158	Horizontal				
4	4960.000	42.97	74.00	31.03	114	278	Horizontal				
5	7440.000	48.60	74.00	25.40	184	243	Horizontal				
6	7440.000	37.70	54.00	16.30	113	158	Horizontal				
7	17986.49	47.73	54.00	6.27	173	158	Horizontal				

Final Data List

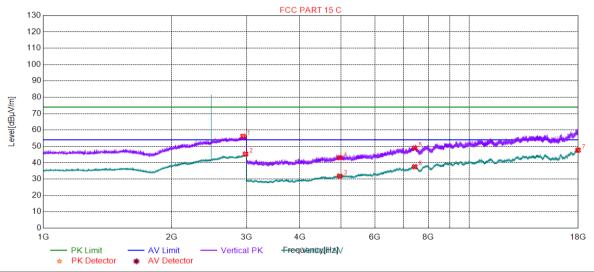




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4.8.2.6 BLE_1M_Channel 39



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2942.985	56.16	74.00	17.84	256	235	Vertical				
2	2981.995	45.33	54.00	8.67	291	310	Vertical				
3	4960.000	31.85	54.00	22.15	226	305	Vertical				
4	4960.000	43.08	74.00	30.92	163	65	Vertical				
5	7440.000	48.94	74.00	25.06	205	339	Vertical				
6	7440.000	37.55	54.00	16.45	161	65	Vertical				
7	17979.74	47.69	54.00	6.31	284	339	Vertical				

Final Data List

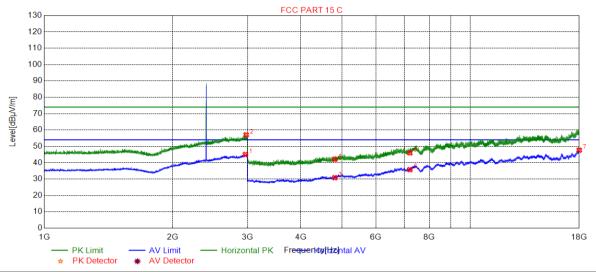




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4.8.2.7 BLE_2M_Channel 0



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2964.491	45.03	54.00	8.97	149	96	Horizontal				
2	2975.994	57.05	74.00	16.95	146	304	Horizontal				
3	4804.000	30.87	54.00	23.13	245	242	Horizontal				
4	4804.000	42.11	74.00	31.89	127	154	Horizontal				
5	7206.000	46.04	74.00	27.96	227	64	Horizontal				
6	7206.000	35.77	54.00	18.23	145	276	Horizontal				
7	18000.00	47.68	54.00	6.32	223	81	Horizontal				

Final Data List

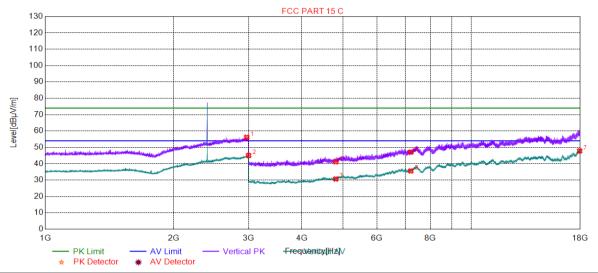




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4.8.2.8 BLE_2M_Channel 0



Suspe	Suspected List										
	Freq.	Level	Limit	Margin	Height	Angle	5				
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity				
1	2968.492	56.18	74.00	17.82	209	194	Vertical				
2	2998.999	45.05	54.00	8.95	157	82	Vertical				
3	4804.000	30.68	54.00	23.32	268	14	Vertical				
4	4804.000	41.21	74.00	32.79	235	222	Vertical				
5	7206.000	35.59	54.00	18.41	289	14	Vertical				
6	7206.000	47.12	74.00	26.88	163	68	Vertical				
7	17941.49	47.84	54.00	6.16	273	324	Vertical				

Final Data List

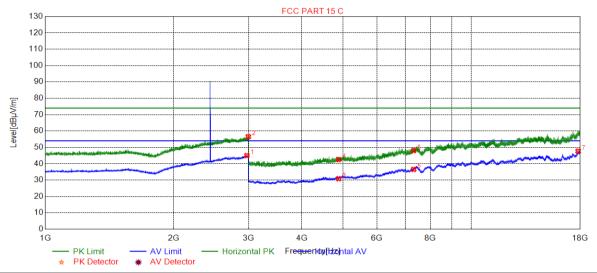




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4.8.2.9 BLE_2M_Channel 19



Suspe	Suspected List							
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1	
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2971.993	45.01	54.00	8.99	114	195	Horizontal	
2	2995.498	56.53	74.00	17.47	178	252	Horizontal	
3	4880.000	30.85	54.00	23.15	139	158	Horizontal	
4	4880.000	42.54	74.00	31.46	173	124	Horizontal	
5	7320.000	36.56	54.00	17.44	127	4	Horizontal	
6	7320.000	48.06	74.00	25.94	184	175	Horizontal	
7	17792.23	47.70	54.00	6.30	207	346	Horizontal	

Final Data List

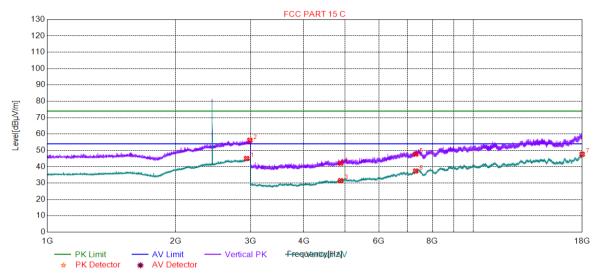




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4.8.2.10 BLE_2M_Channel 19



Suspe	Suspected List							
NO	Freq.	Level	Limit	Margin	Height	Angle	D 1 ''	
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2935.984	45.02	54.00	8.98	280	188	Vertical	
2	2987.496	56.18	74.00	17.82	293	93	Vertical	
3	4880.000	31.51	54.00	22.49	200	30	Vertical	
4	4880.000	42.15	74.00	31.85	247	82	Vertical	
5	7320.000	47.73	74.00	26.27	292	201	Vertical	
6	7320.000	37.40	54.00	16.60	291	167	Vertical	
7	17991.74	47.63	54.00	6.37	212	82	Vertical	

Final Data List

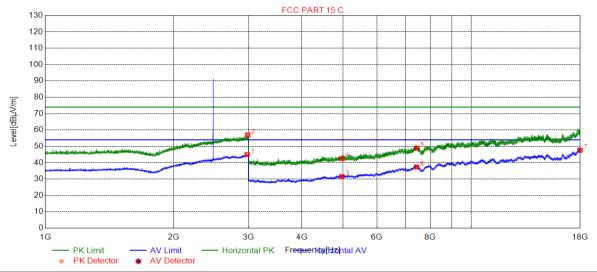




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4.8.2.11 BLE_2M_Channel 39



Suspe	Suspected List							
	Freq.	Level	Limit	Margin	Height	Angle	5.1.1	
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2976.494	45.03	54.00	8.97	201	140	Horizontal	
2	2985.496	57.04	74.00	16.96	239	341	Horizontal	
3	4960.000	31.56	54.00	22.44	160	346	Horizontal	
4	4960.000	42.51	74.00	31.49	141	208	Horizontal	
5	7440.000	48.91	74.00	25.09	147	329	Horizontal	
6	7440.000	37.40	54.00	16.60	182	260	Horizontal	
7	17979.74	47.64	54.00	6.36	203	278	Horizontal	

Final Data List

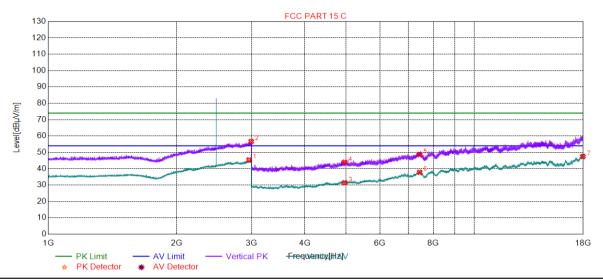




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4.8.2.12 BLE_2M_Channel 39



Suspe	Suspected List							
NO	Freq.	Level	Limit	Margin	Height	Angle	D 1 ''	
NO.	[MHz]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	2957.989	45.36	54.00	8.64	279	29	Vertical	
2	2992.998	56.69	74.00	17.31	173	155	Vertical	
3	4960.000	31.47	54.00	22.53	167	343	Vertical	
4	4960.000	43.99	74.00	30.01	188	343	Vertical	
5	7440.000	48.68	74.00	25.32	250	272	Vertical	
6	7440.000	37.83	54.00	16.17	183	83	Vertical	
7	17963.24	47.51	54.00	6.49	286	254	Vertical	

Final Data List

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 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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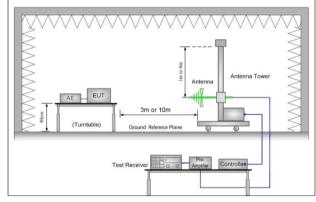
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4.9 Restricted bands around fundamental frequency

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

Test Setup:



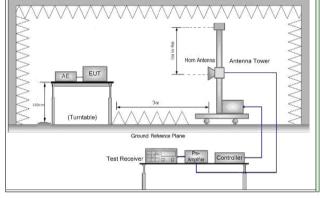


Figure 1. 30MHz to 1GHz

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



Test Procedure:

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	 h. Test the EUT in the lowest channel, the Highest channel 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

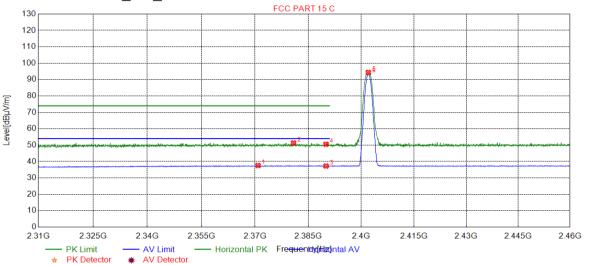


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4.9.1 **Test plots**

4.9.1.1 BLE_1M_Channel 0



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2370.85	37.61	7.79	54.00	16.39	111	340	Horizontal	
2	2380.83	51.40	7.78	74.00	22.60	233	241	Horizontal	
3	2390.00	37.28	7.77	54.00	16.72	202	166	Horizontal	
4	2390.00	50.56	7.77	74.00	23.44	194	302	Horizontal	
5	2402.00	94.38	7.77	0.00	-94.38	141	150	Horizontal	
6	2402.00	93.41	7.77	0.00	-93.41	206	209	Horizontal	

Final Data List

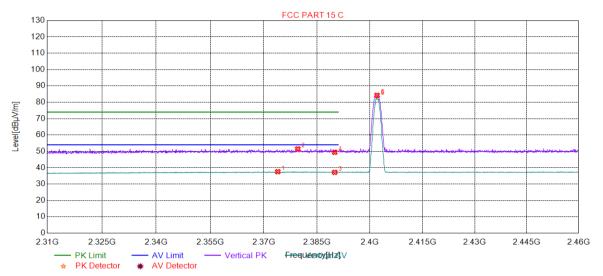




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4.9.1.2 BLE_1M_Channel 0



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2373.93	37.59	7.79	54.00	16.41	289	156	Vertical	
2	2379.55	51.51	7.78	74.00	22.49	208	183	Vertical	
3	2390.00	37.19	7.77	54.00	16.81	275	221	Vertical	
4	2390.00	49.45	7.77	74.00	24.55	199	150	Vertical	
5	2402.00	84.28	7.77	0.00	-84.28	215	303	Vertical	
6	2402.00	83.59	7.77	0.00	-83.59	207	303	Vertical	

Final Data List

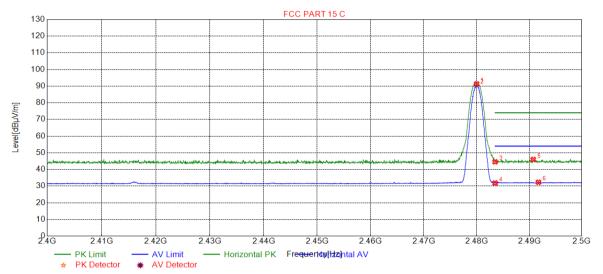




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4.9.1.3 BLE_1M_Channel 39



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	91.36	8.01	0.00	-91.36	110	207	Horizontal	
2	2480.00	90.63	8.01	0.00	-90.63	185	207	Horizontal	
3	2483.50	44.61	8.01	74.00	29.39	218	212	Horizontal	
4	2483.50	31.88	8.01	54.00	22.12	161	90	Horizontal	
5	2490.74	46.03	8.02	74.00	27.97	170	102	Horizontal	
6	2491.74	32.34	8.02	54.00	21.66	104	179	Horizontal	

Final Data List



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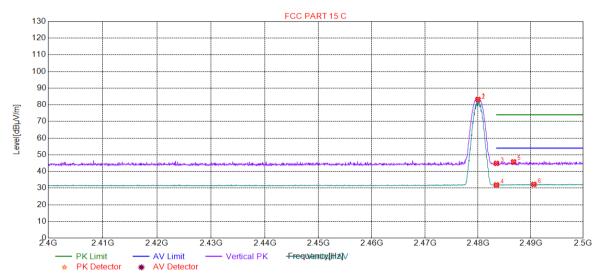
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4.9.1.4 BLE_1M_Channel 39



Suspe	Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	2480.00	83.20	8.01	0.00	-83.20	184	346	Vertical	
2	2480.00	82.63	8.01	0.00	-82.63	206	346	Vertical	
3	2483.50	44.86	8.01	74.00	29.14	277	100	Vertical	
4	2483.50	31.96	8.01	54.00	22.04	168	302	Vertical	
5	2486.74	45.78	8.01	74.00	28.22	238	265	Vertical	
6	2490.59	32.27	8.02	54.00	21.73	271	346	Vertical	

Final Data List

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 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)

Lab A:

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	Temperature test	±1°C		
5	Humidity test	±3%		
6	DC and low frequency voltages	±0.5%		

Lab B:

No.	ltem	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
		± 4.8dB (Below 1GHz)
		± 4.8dB (1GHz to 6GHz)
2	Radiated Emission	± 4.5dB (6GHz to 18GHz)
		± 5.02dB (Above 18GHz)



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6 Equipment List

RF conducted test								
Test Equipment	Manufacturer	Model No.	Inventory No	Cal. date	Cal.Duedate			
				(yyyy-mm-dd)	(yyyy-mm-dd)			
DC Power Supply	Agilent Technologie	66311B	W009-09	2020/7/15	2021/7/15			
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/1/3	2021/1/2			
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14			
Temperature Chamber	GIANT FORCE	ICT-150-40-CP AR	W027-03	2020/10/27	2021/10/27			
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14			

CE Test System								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10			
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10			
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2020-08-04	2021-08-03			
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05			
Measurement Software	Tonscend	TS+ CE V2.5	XAW02-05-02	NCR	NCR			



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RSE Test System							
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date		
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10		
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2020-04-02	2021-04-01		
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10		
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12		
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12		
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12		
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR		
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR		
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR		
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR		
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25		
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25		
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26		
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25		
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05		
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR		



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7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for ZR/2020/B0030.

The End

