

Report No.: ZR/2020/C006203

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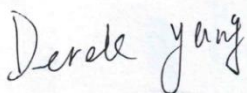
FCC TEST REPORT

Application No.: ZR/2020/C0062
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: PY7-13951F
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
KDB 558074 D01 v05r02
Date of Receipt: 2020/12/23
Date of Test: 2020/12/23 to 2021/1/25
Date of Issue: 2021/5/8

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang
Wireless Laboratory Manager



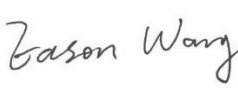
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-03-10		Original
02		2021-04-06		Comment Revised
03		2021-05-08		Updated equipment list

Authorized for issue by:		
Prepared By		 _____ (Eason Wang) /Engineer
Checked By		 _____ (David Chen) /Reviewer



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2 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 4.2	PASS	B
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.4	PASS	A
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.5	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.8	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.10	PASS	B



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3 General Information

3.1 Details of Client

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 Park, Shenzhen, Guangdong, China
Post code:	518057
Test Engineer:	Dee Zheng, Mike Hu

Lab B:

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, Leah 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.

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:	005118ADNVM2
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:	Bluetooth V5.1
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	2.0dBi

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



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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

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 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 2.0dBi.	



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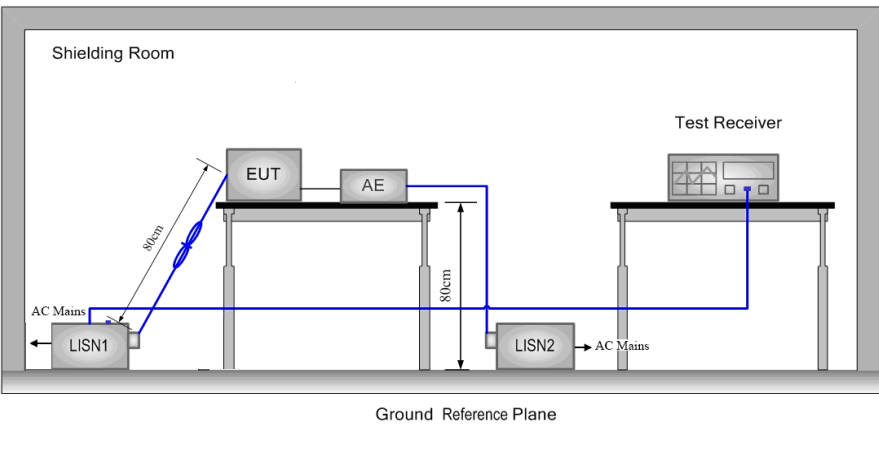
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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
Remark:	The Emission Test is performed by the Lab B

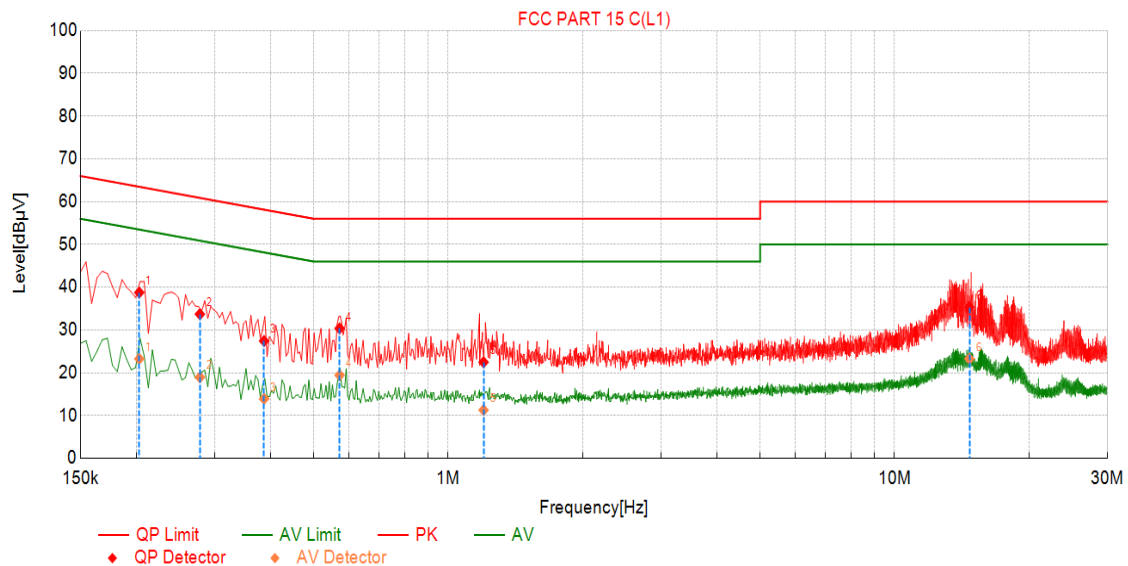


Measurement Data

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 Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.2033	38.76	63.47	24.71	23.26	53.47	30.21	PASS
2	0.2779	33.70	60.88	27.18	18.95	50.88	31.93	PASS
3	0.3869	27.44	58.13	30.69	13.90	48.13	34.23	PASS
4	0.5713	30.38	56.00	25.62	19.43	46.00	26.57	PASS
5	1.2004	22.46	56.00	33.54	11.28	46.00	34.72	PASS
6	14.7135	35.33	60.00	24.67	23.25	50.00	26.75	PASS

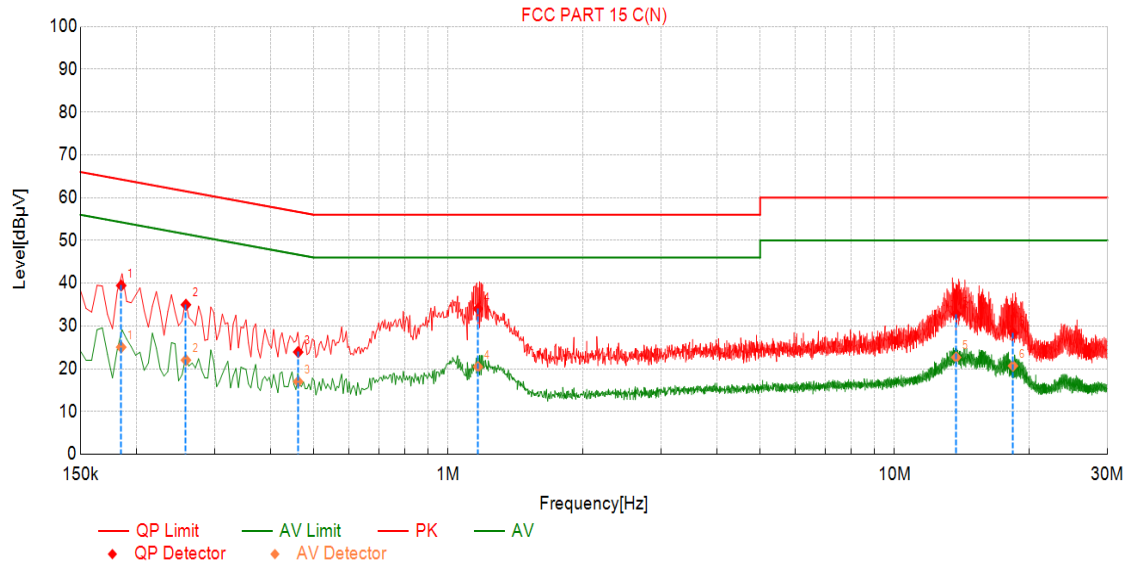


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Neutral Line:



Final Data List

NO.	Freq. [MHz]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1852	39.45	64.25	24.80	25.05	54.25	29.20	PASS
2	0.2586	34.97	61.48	26.51	22.01	51.48	29.47	PASS
3	0.4614	23.91	56.67	32.76	16.99	46.67	29.68	PASS
4	1.1663	34.03	56.00	21.97	20.46	46.00	25.54	PASS
5	13.7402	32.81	60.00	27.19	22.66	50.00	27.34	PASS
6	18.4172	28.39	60.00	31.61	20.68	50.00	29.32	PASS

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 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]	T(ms)	1/T(kHz)	VBW(kHz)
BLE_1M	CH0, CH19, CH39	61.72	0.386	2.591	3
BLE_2M	CH0, CH19, CH39	32.33	0.203	4.926	10



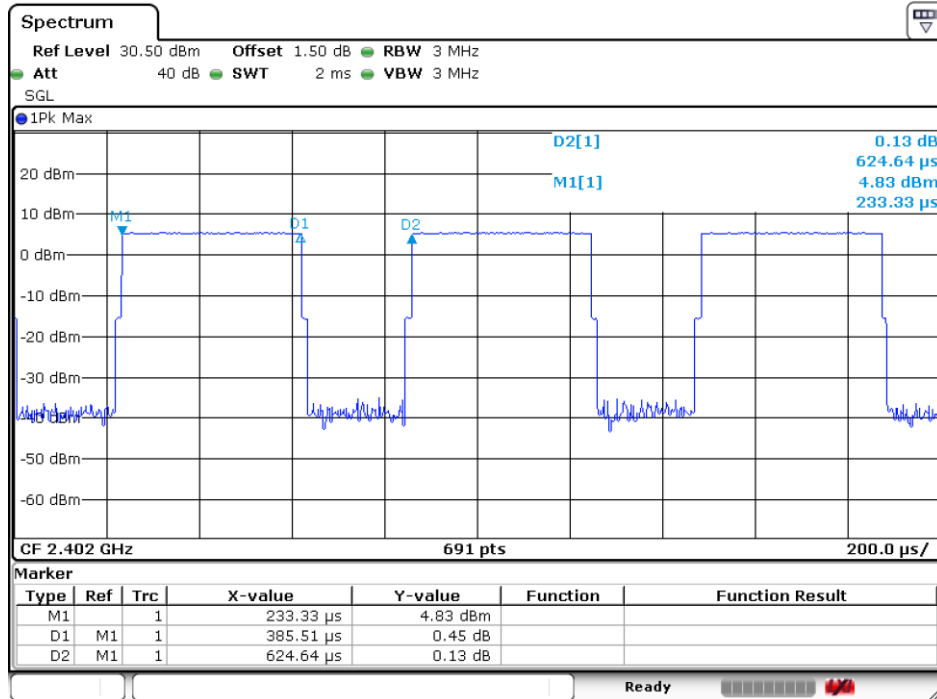
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4.3.2 Test Plots

4.3.2.1 ANT1

4.3.2.1.1 BLE_1M



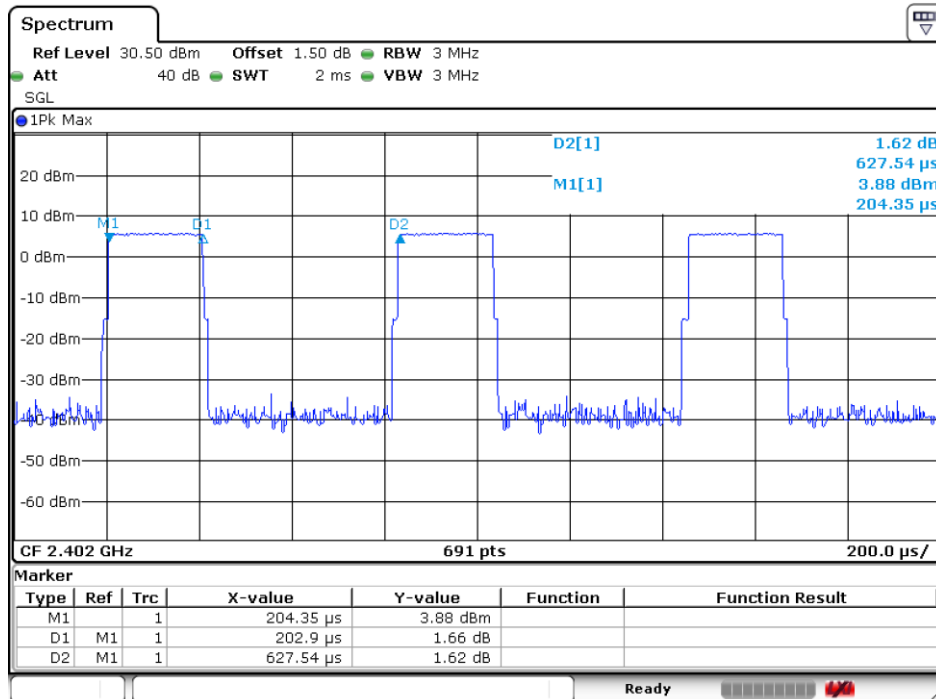
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4.3.2.1.2 BLE 2M



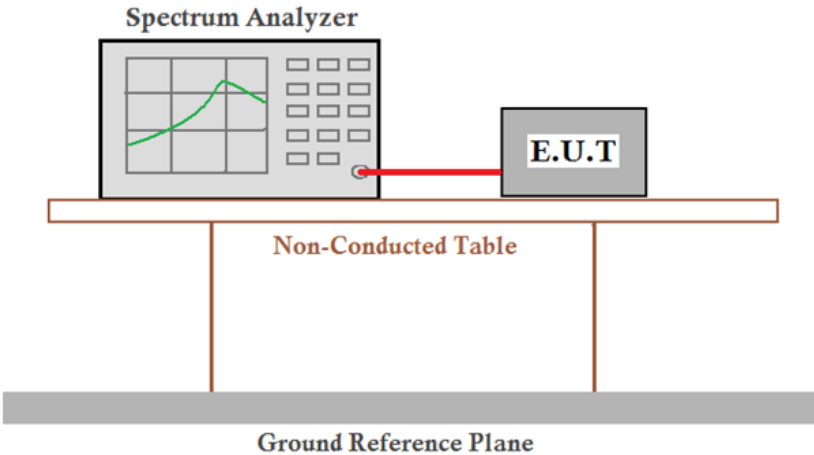
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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass



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4.4.1 Test Results

Measurement Data of Peak Power:

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.74	30.00	Pass
Middle	6.92	30.00	Pass
Highest	8.80	30.00	Pass

GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	5.67	30.00	Pass
Middle	7.07	30.00	Pass
Highest	8.65	30.00	Pass

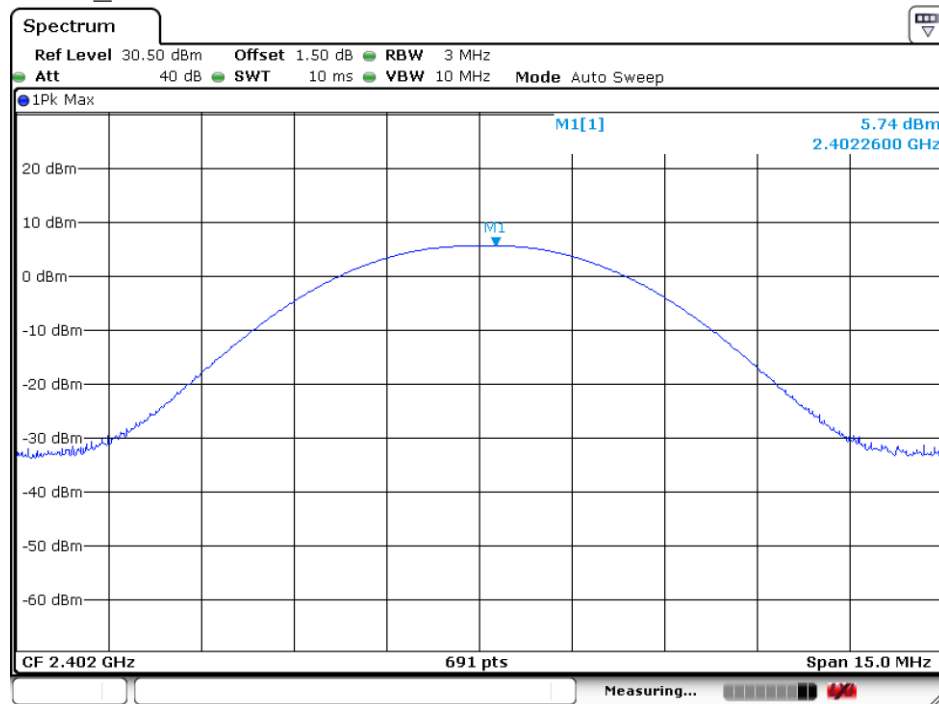


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4.4.2 Test Plots

4.4.2.1 GFSK 1M_Lowest Channel



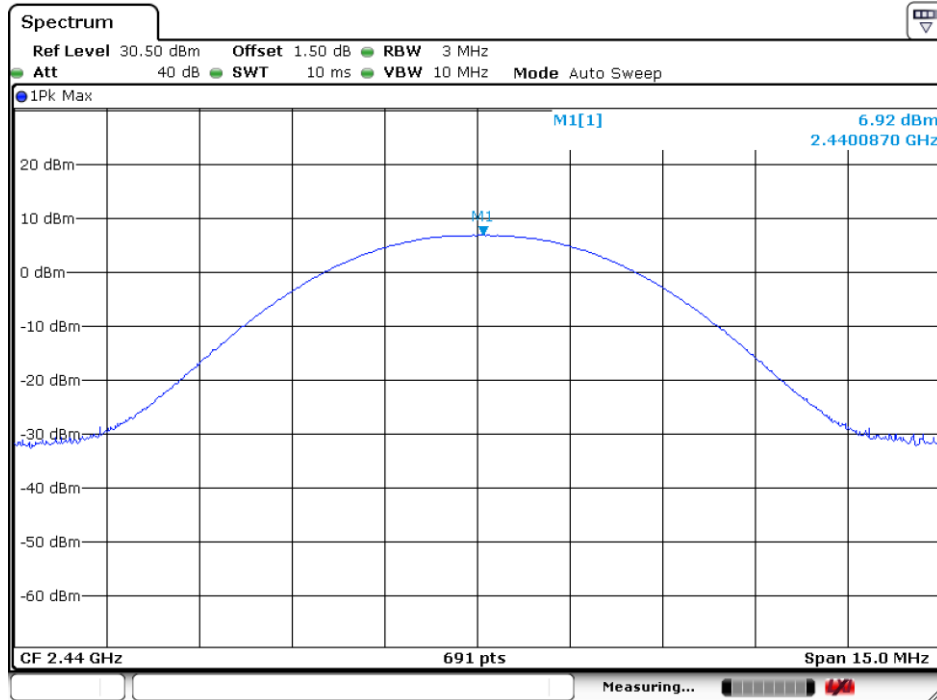
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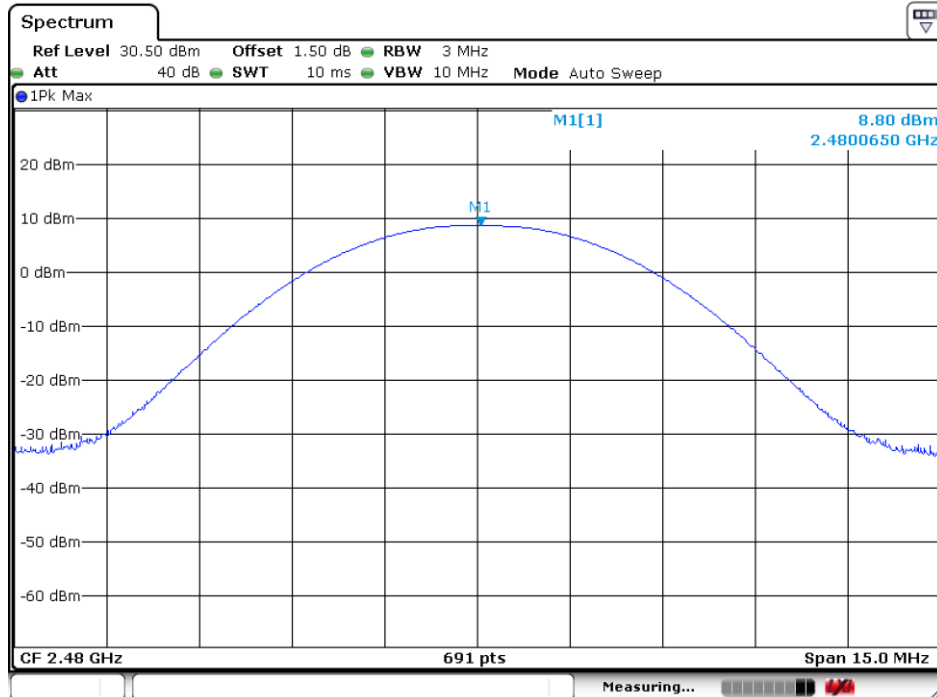
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4.4.2.2 GFSK 1M_Middle Channel



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4.4.2.3 GFSK 1M_Highest Channel

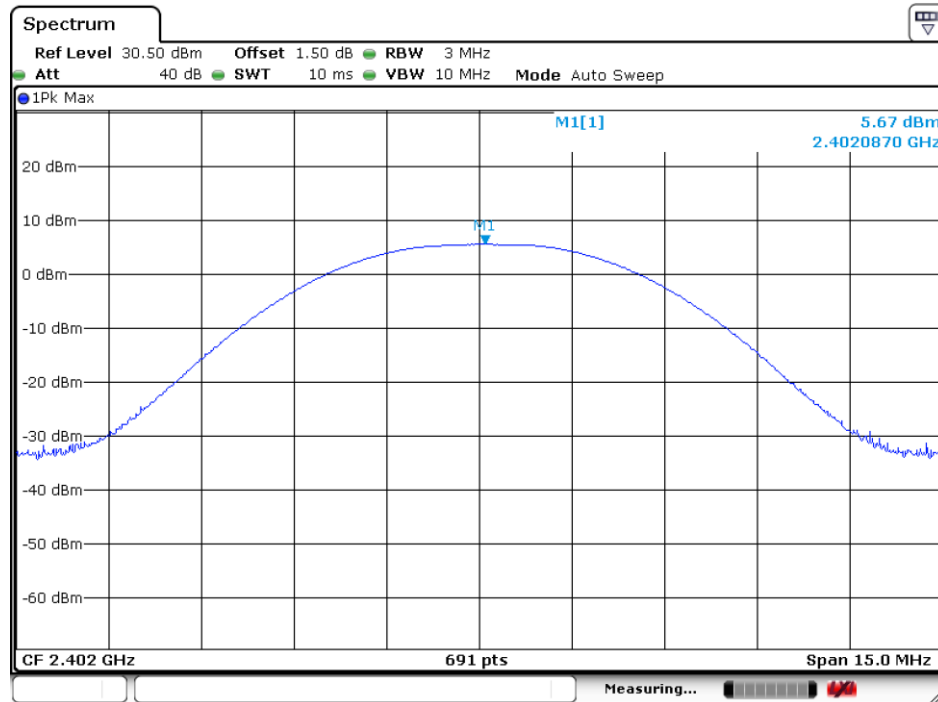


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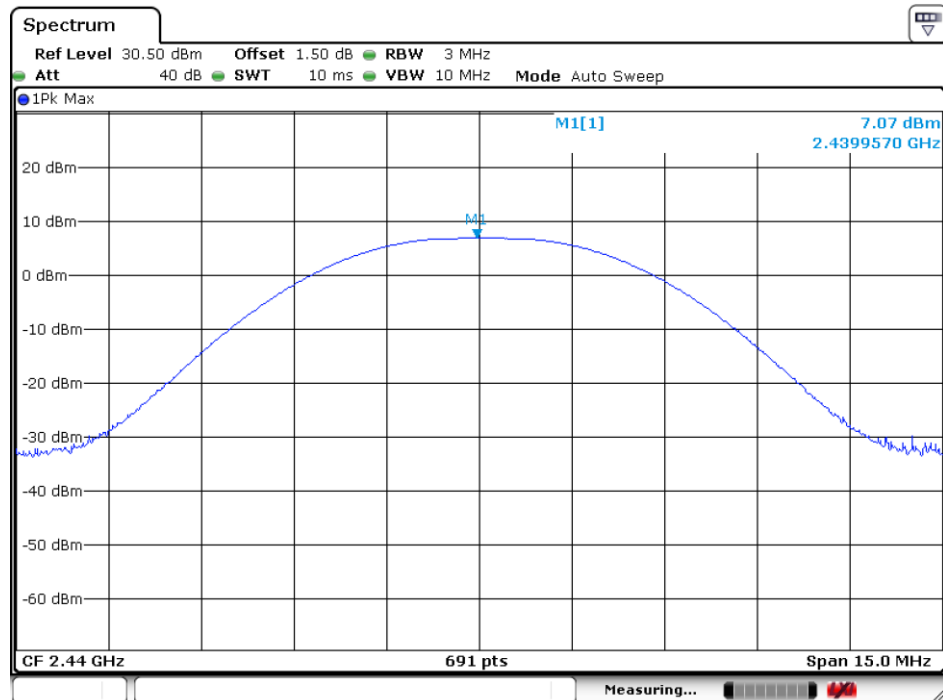
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4.4.2.4 GFSK 2M_Lowest Channel



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4.4.2.5 GFSK 2M_Middle Channel



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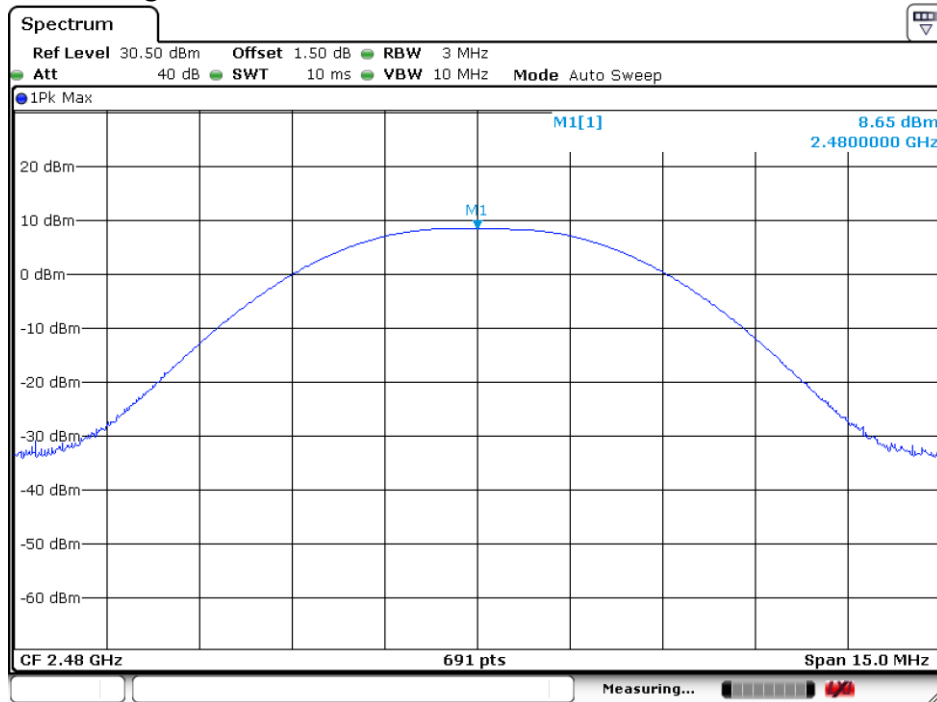
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4.4.2.6 GFSK 2M_Highest Channel



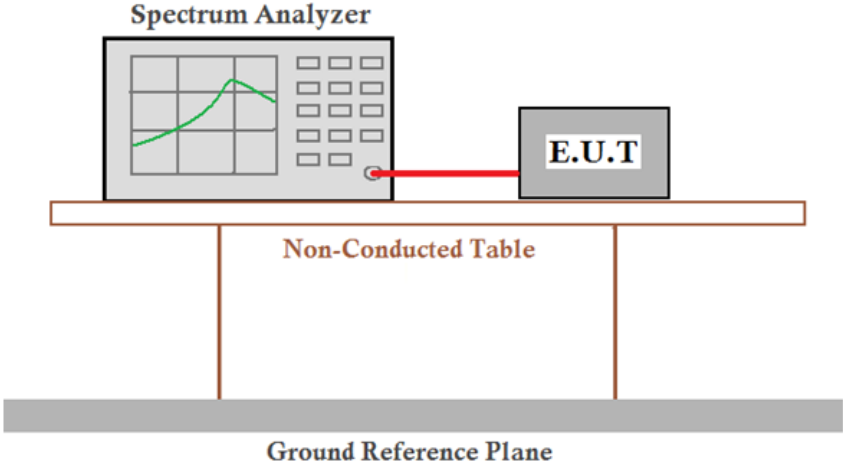
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4.5 DTS (6 dB) Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass



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4.5.1 Test Results

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	0.68	≥500	Pass
	Middle	0.69	≥500	Pass
	Highest	0.67	≥500	Pass

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	1.16	≥500	Pass
	Middle	1.17	≥500	Pass
	Highest	1.16	≥500	Pass

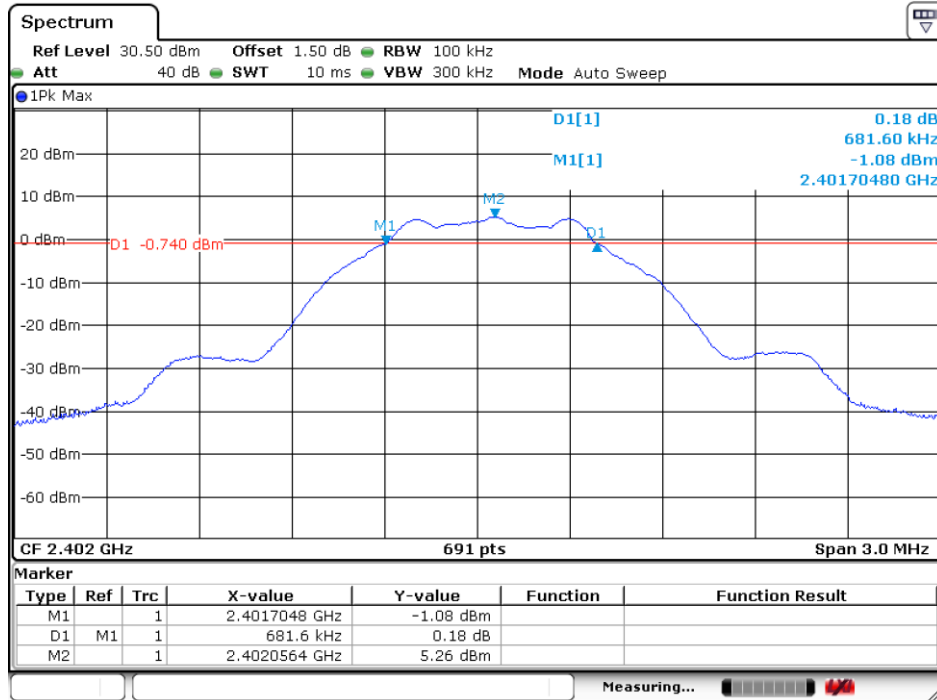


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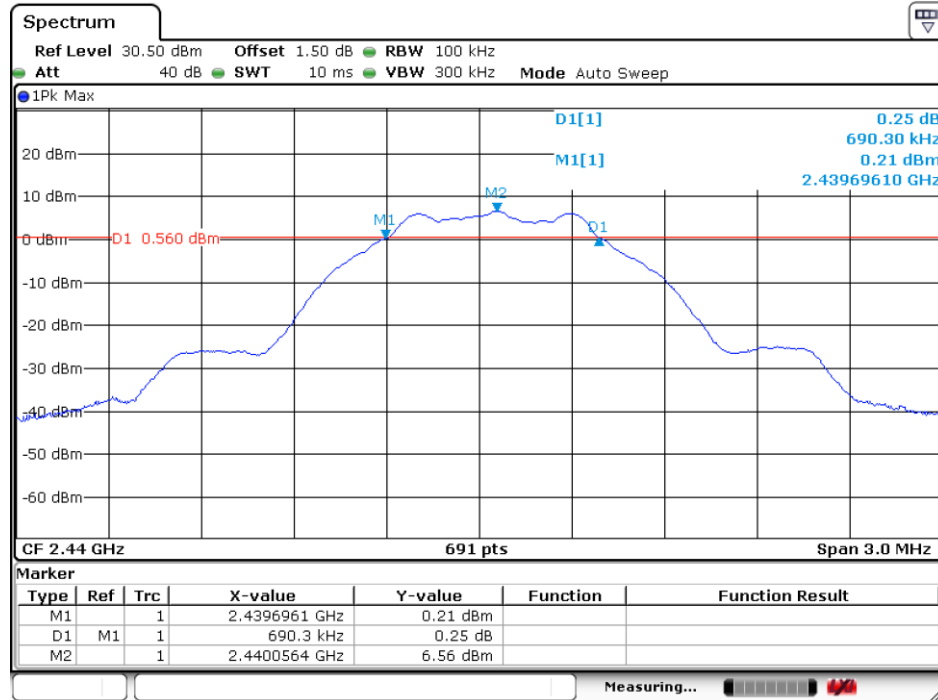
4.5.2 Test Plots

4.5.2.1 GFSK 1M_Lowest Channel



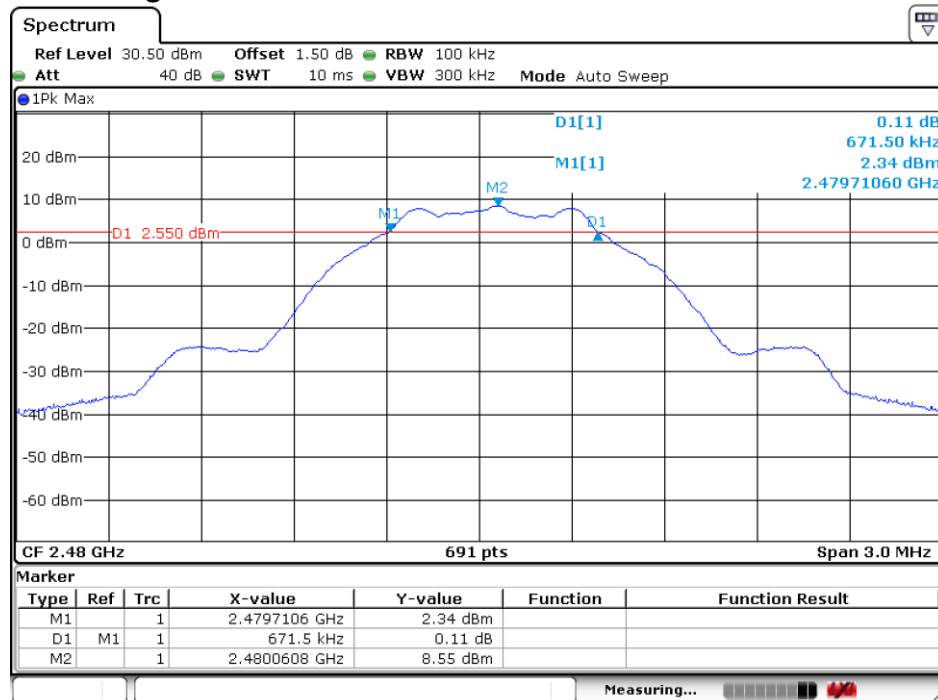
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4.5.2.2 GFSK 1M_Middle Channel



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4.5.2.3 GFSK 1M_Highest Channel



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4.5.2.4 GFSK 2M_Lowest Channel



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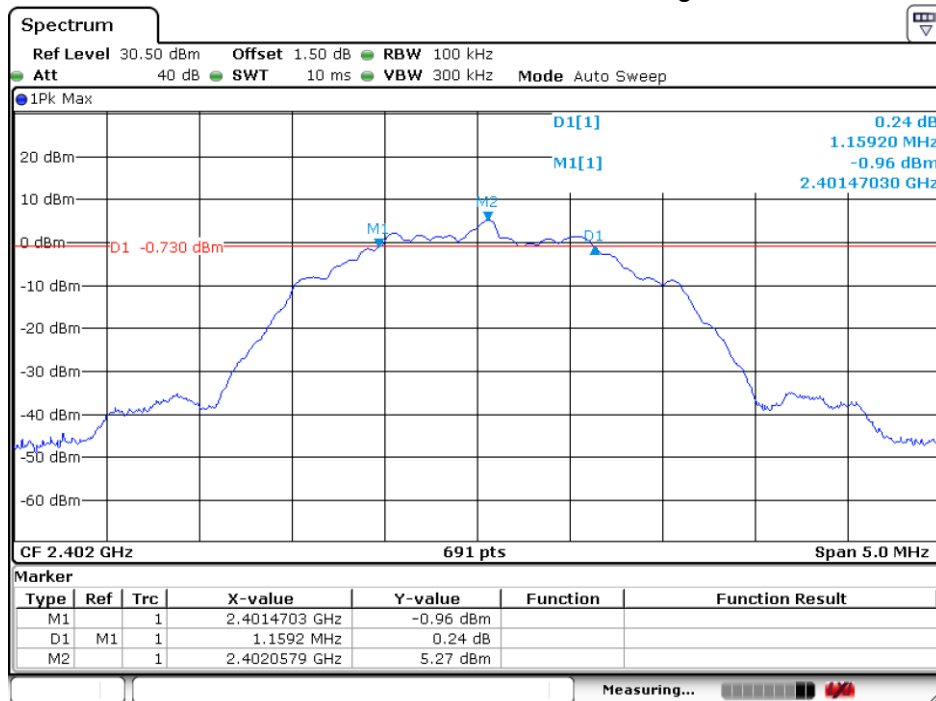
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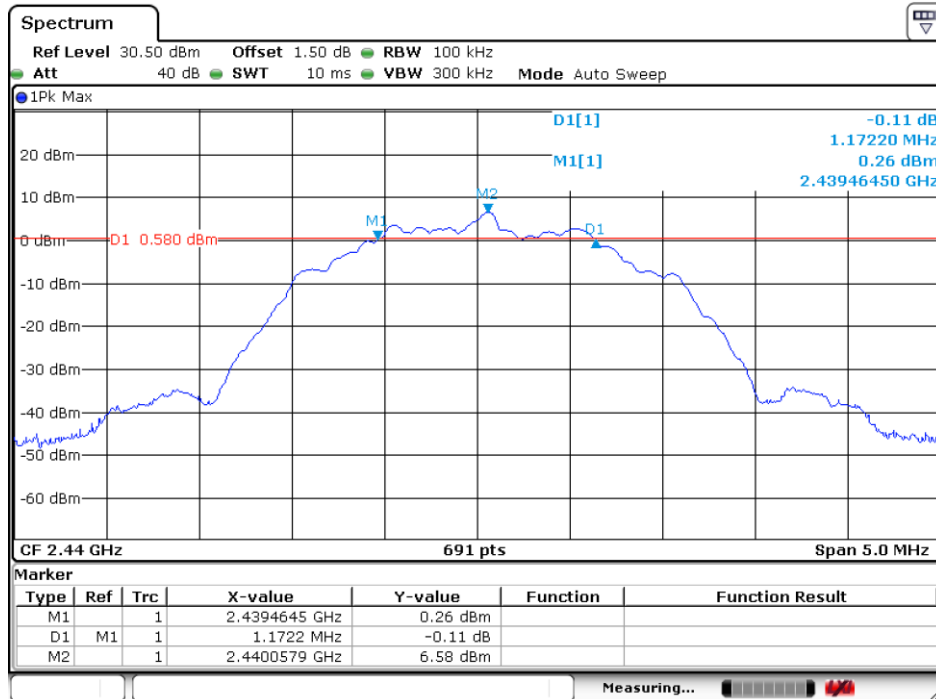
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4.5.2.5 GFSK 2M_Middle Channel



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4.5.2.6 GFSK 2M_Highest Channel



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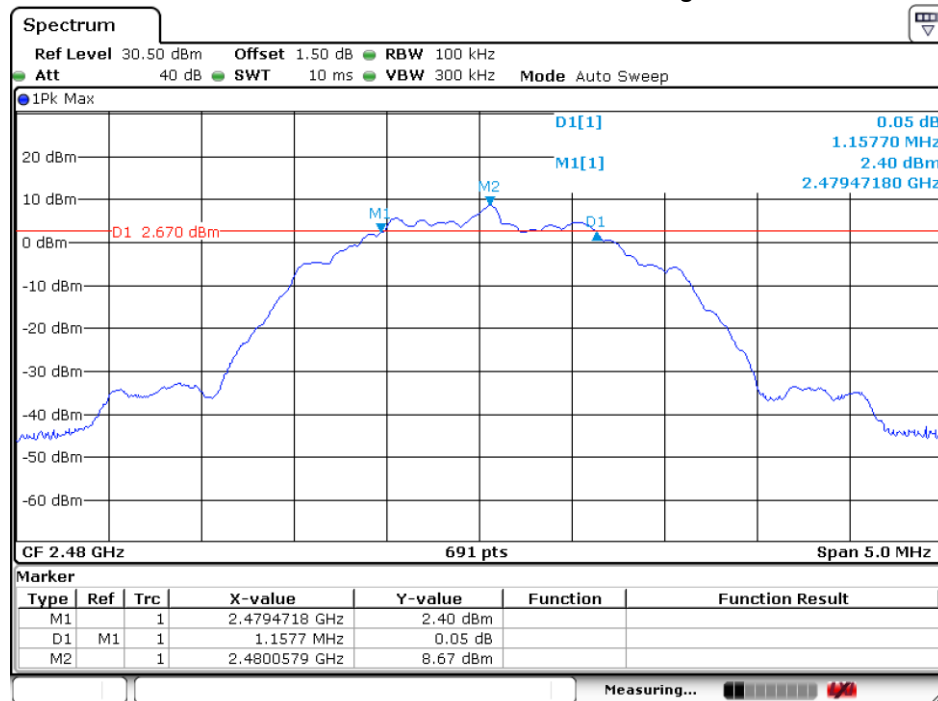
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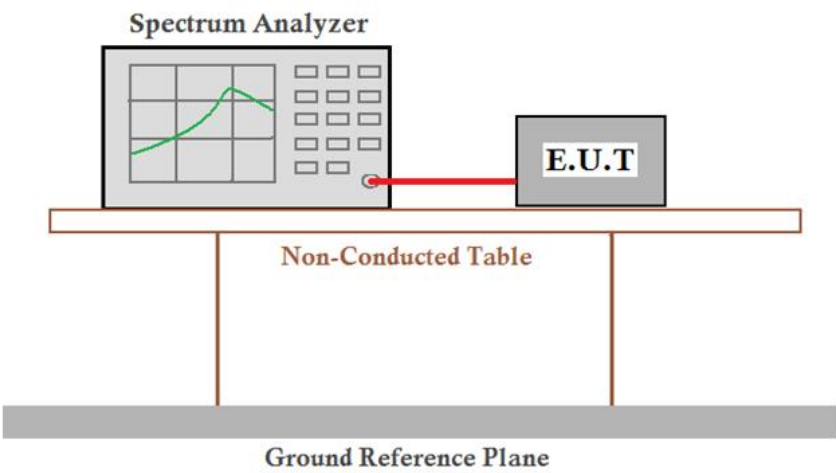
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-9.16	≤8.00	Pass
	Middle	-8.15	≤8.00	Pass
	Highest	-6.38	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-12.34	≤8.00	Pass
	Middle	-11.03	≤8.00	Pass
	Highest	-9.28	≤8.00	Pass

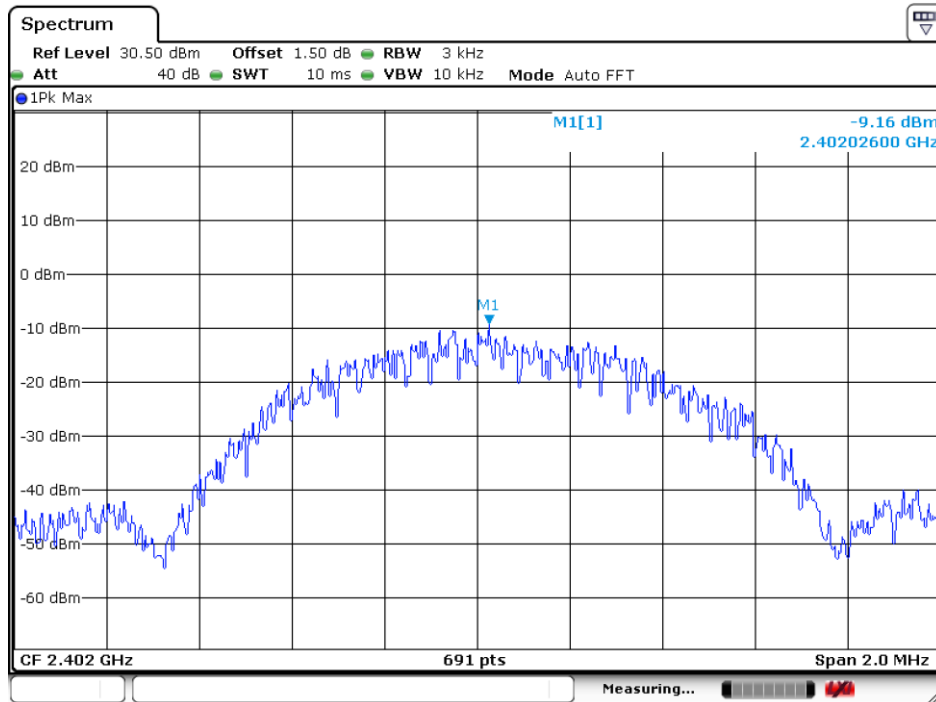


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4.6.2 Test Plots

4.6.2.1 GFSK 1M_Lowest Channel



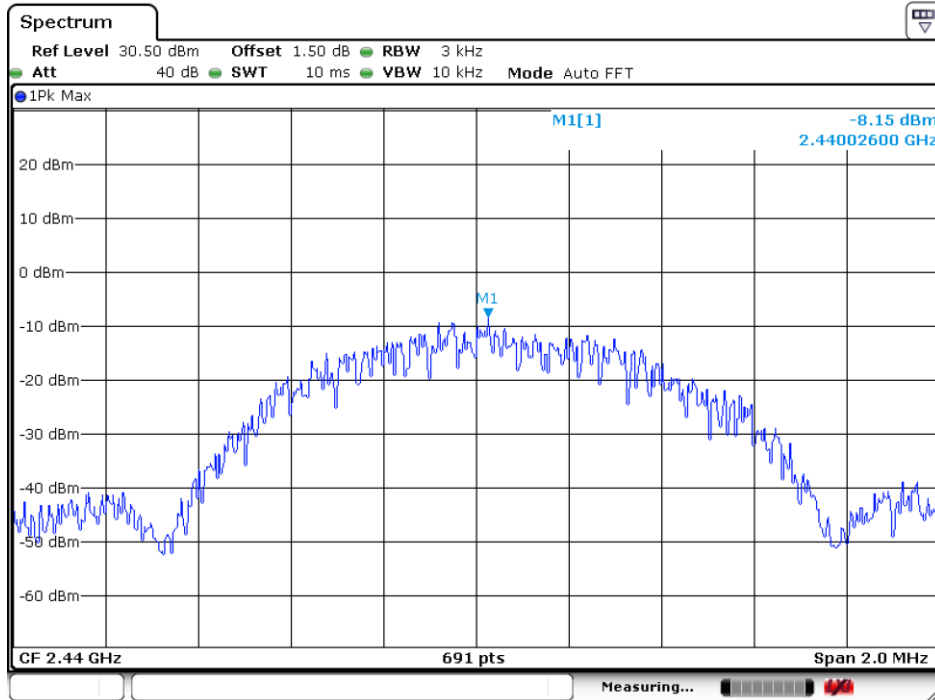
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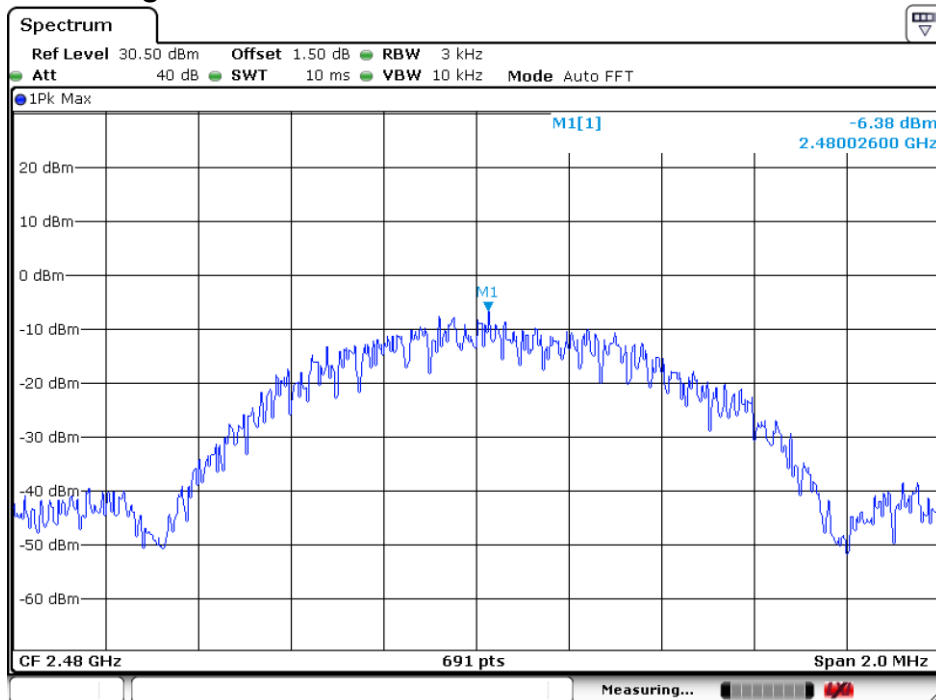
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4.6.2.2 GFSK 1M_Middle Channel



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4.6.2.3 GFSK 1M_Highest Channel



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4.6.2.4 GFSK 2M_Lowest Channel



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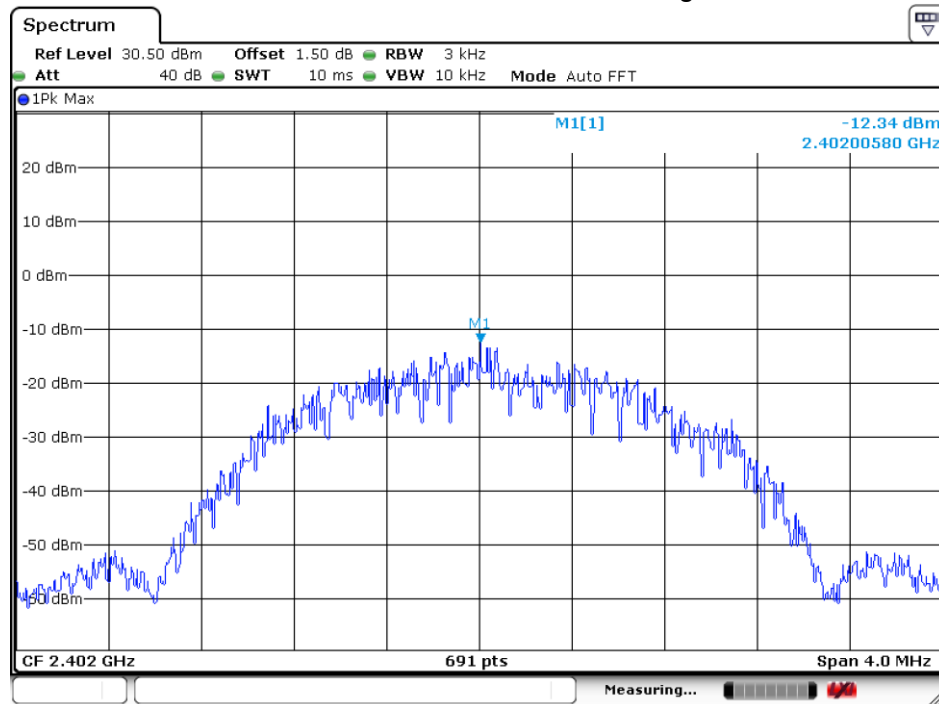
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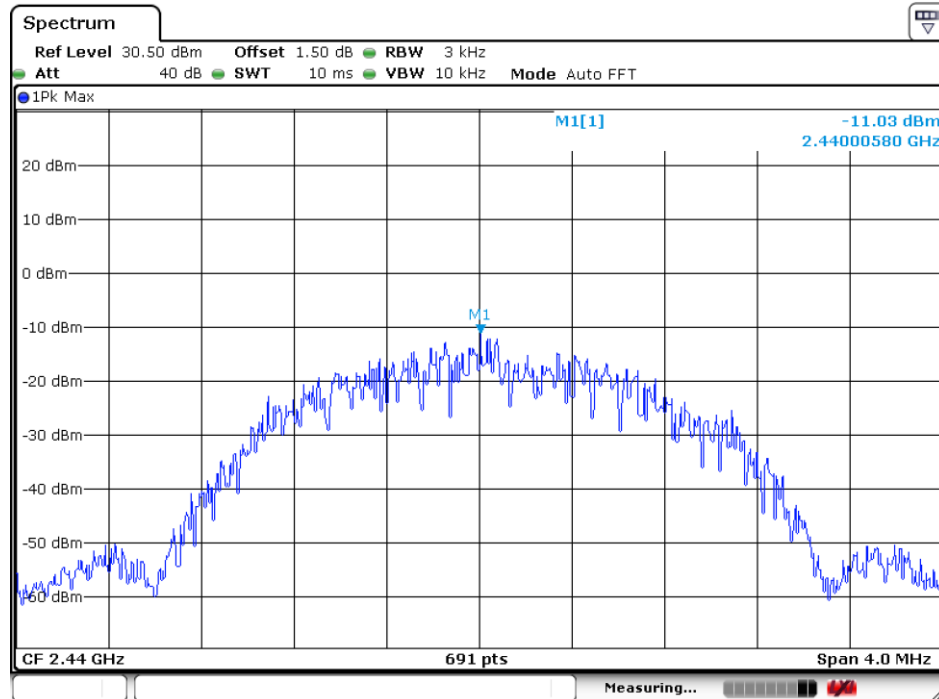
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Date: 15 JAN 2021 14:21:04

4.6.2.5 GFSK 2M_Middle Channel



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4.6.2.6 GFSK 2M_Highest Channel



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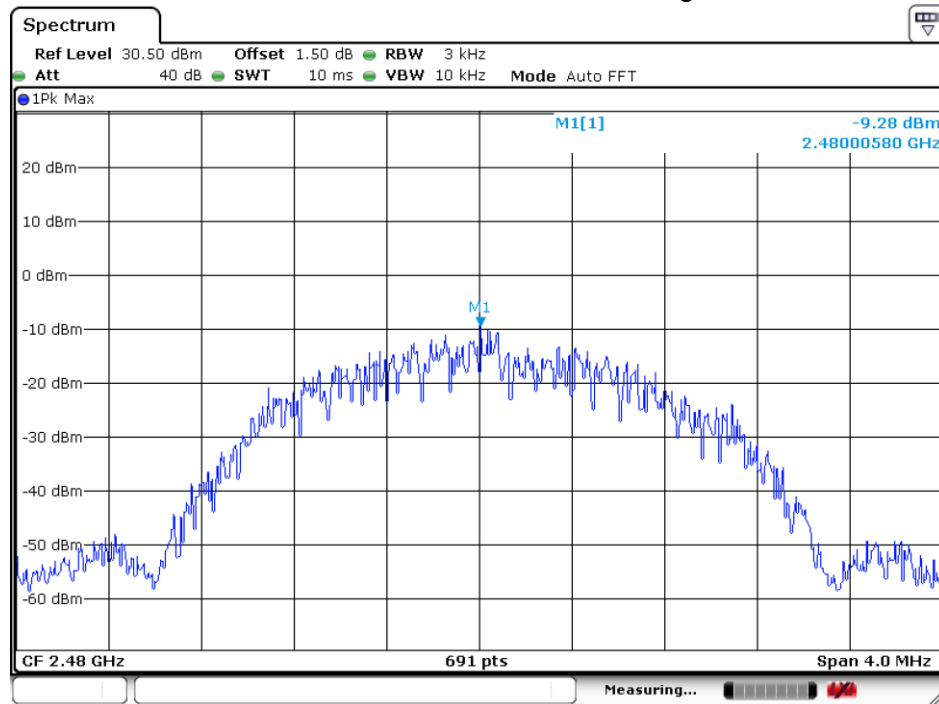
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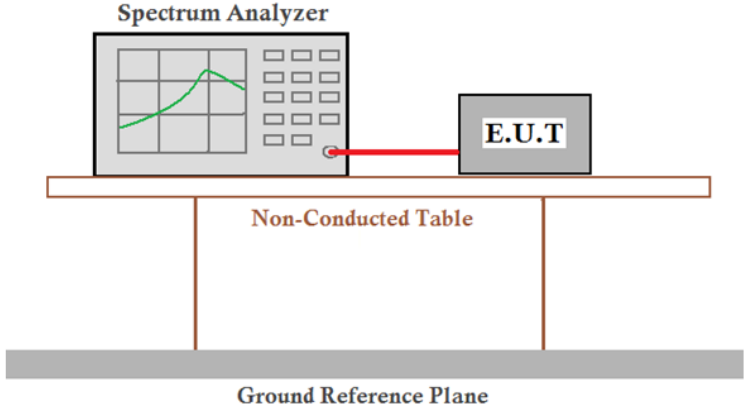
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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
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 Results:	Pass

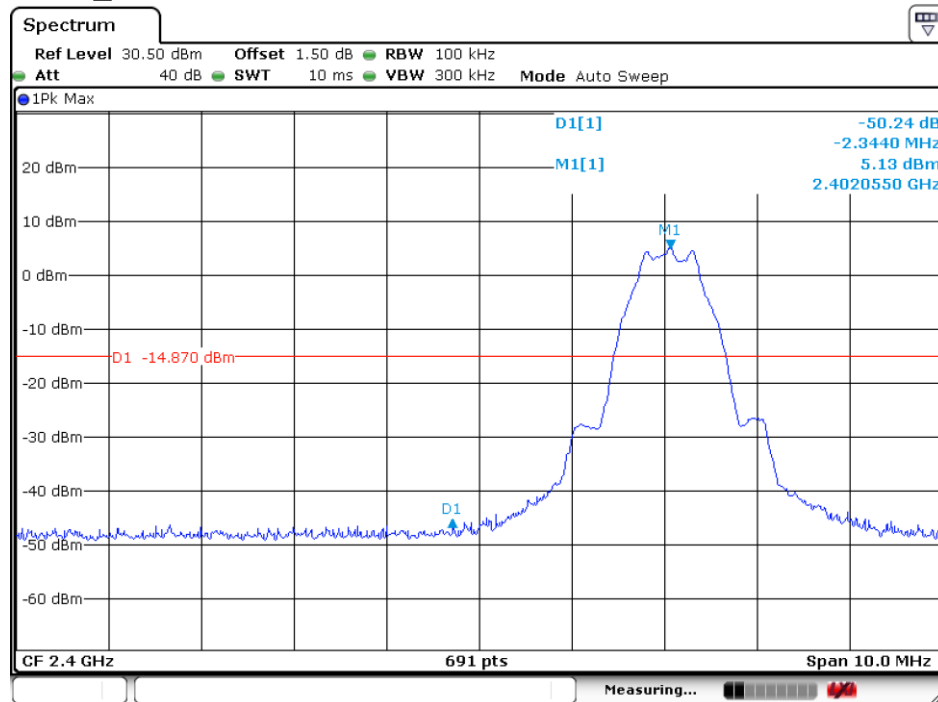


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4.7.1 Test Plots

4.7.1.1 GFSK 1M_Lowest Channel



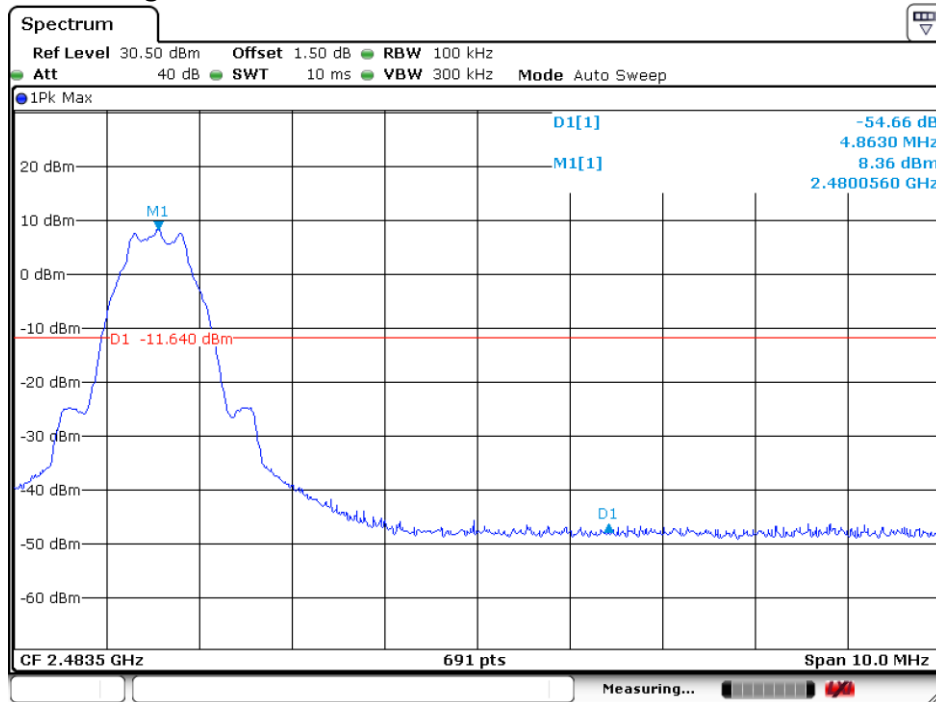
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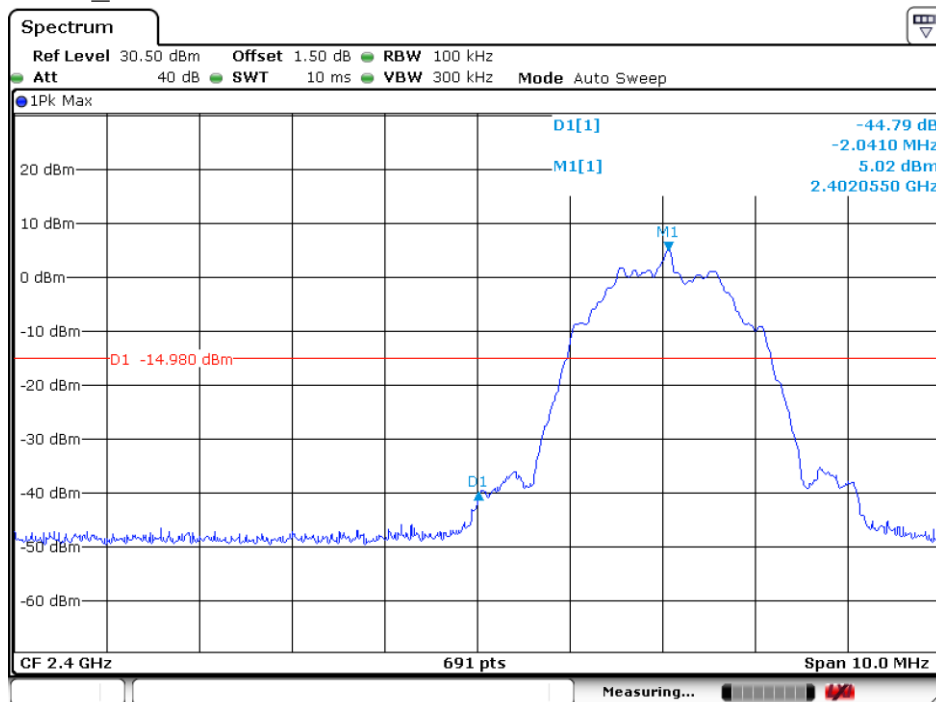
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4.7.1.2 GFSK 1M_Highest Channel



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4.7.1.3 GFSK 2M_Lowest Channel



Date: 15.JAN.2021 14:29:47

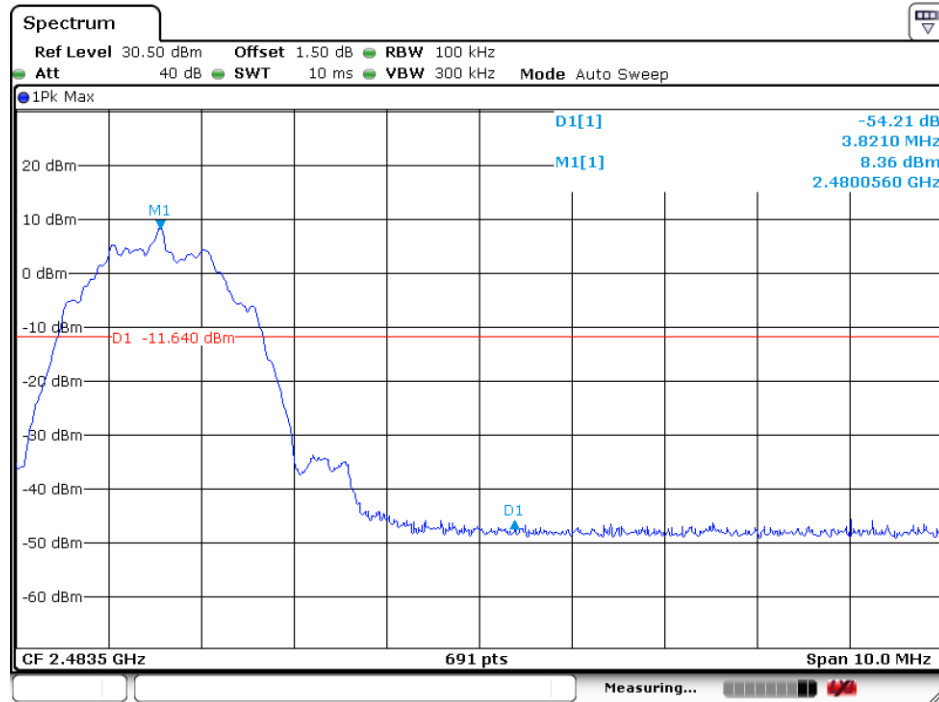
4.7.1.4 GFSK 2M_Highest Channel



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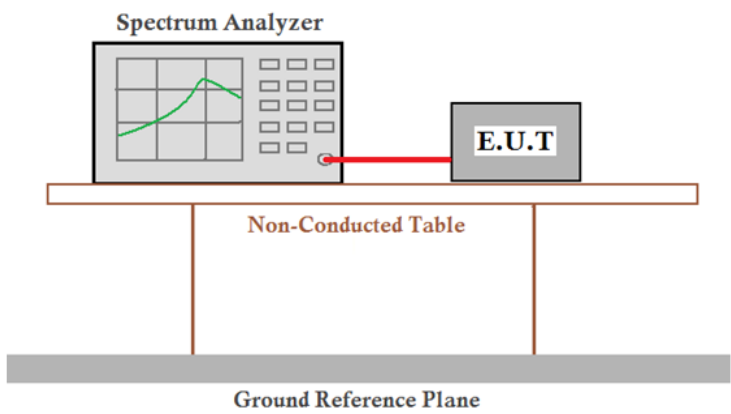
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
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 Results:	Pass

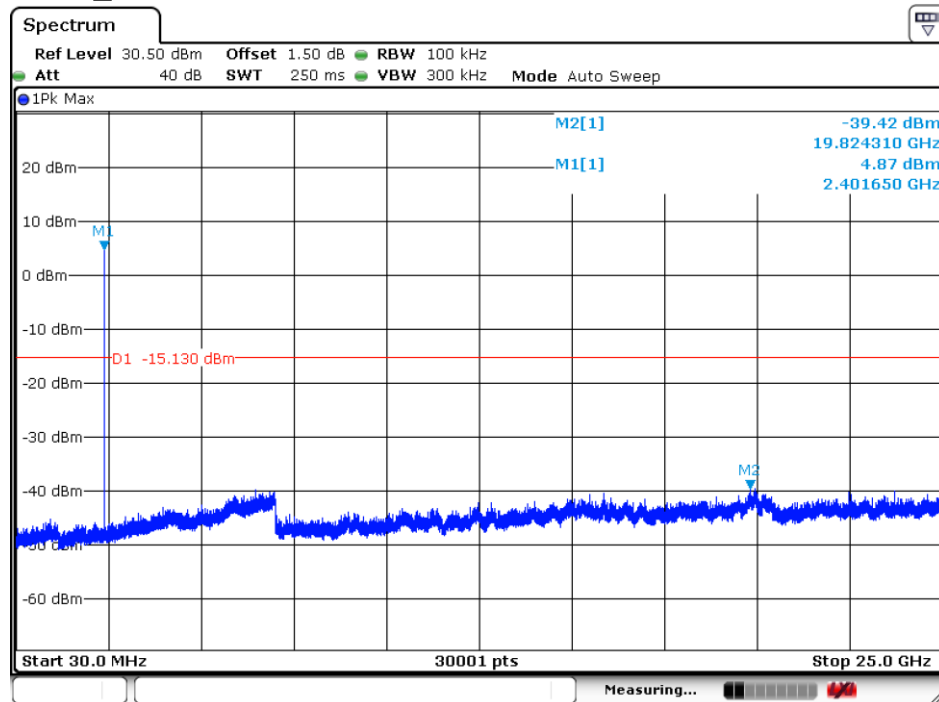


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4.8.1 Test Plots

4.8.1.1 GFSK 1M_Lowest Channel



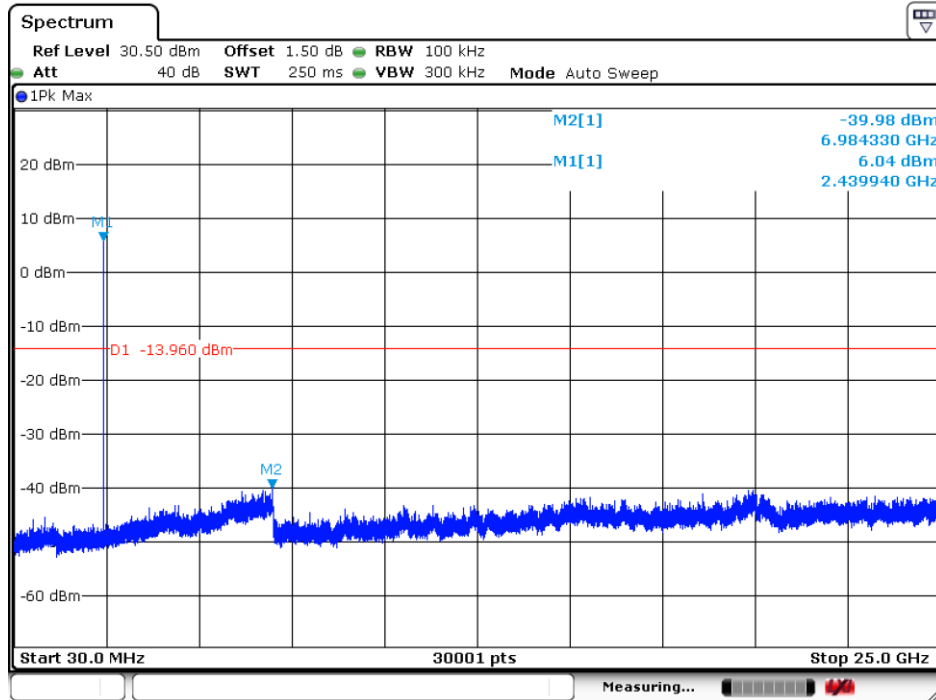
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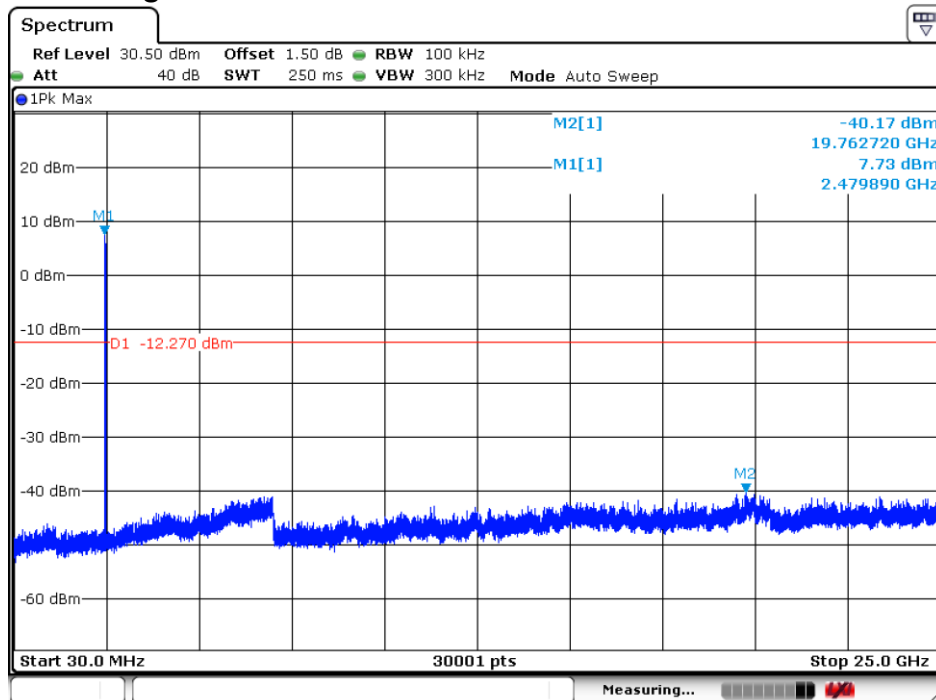
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4.8.1.2 GFSK 1M_Middle Channel



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4.8.1.3 GFSK 1M_Highest Channel



Date: 15 JAN 2021 14:36:40

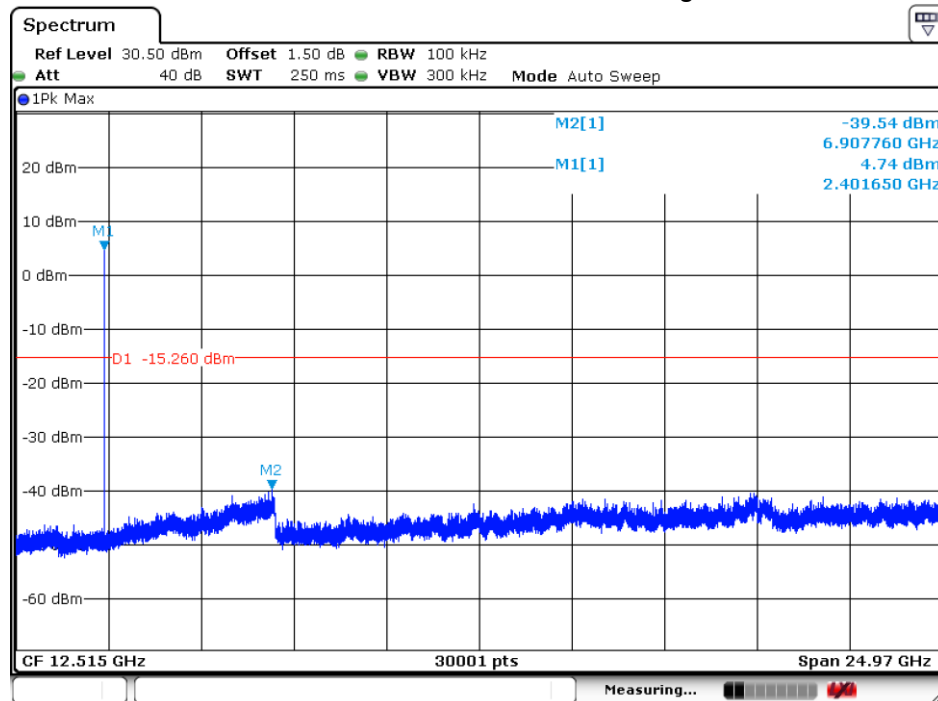
4.8.1.4 GFSK 2M_Lowest Channel



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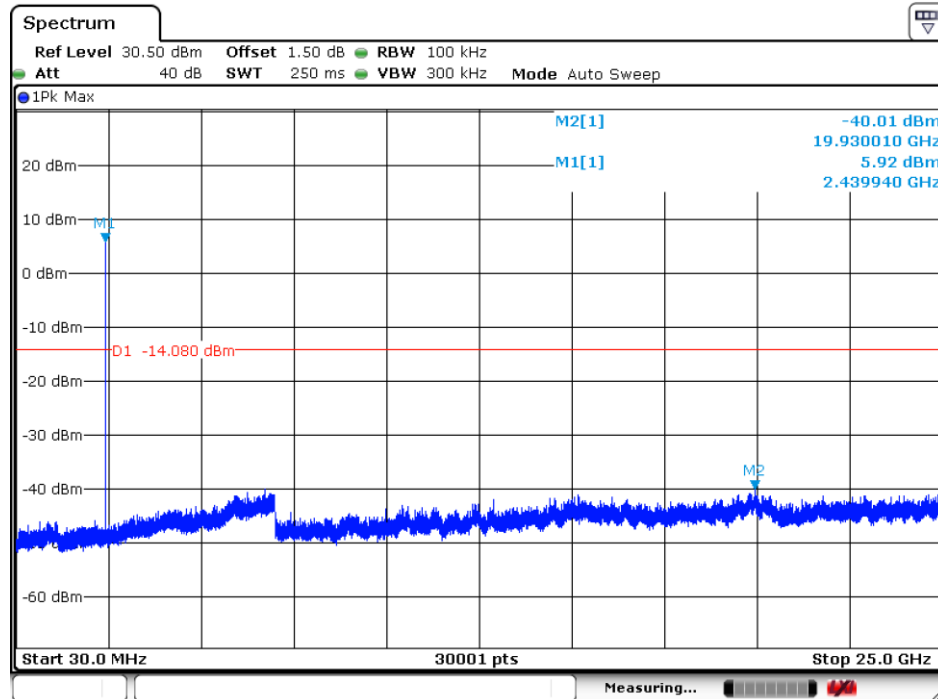
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4.8.1.5 GFSK 2M_Middle Channel



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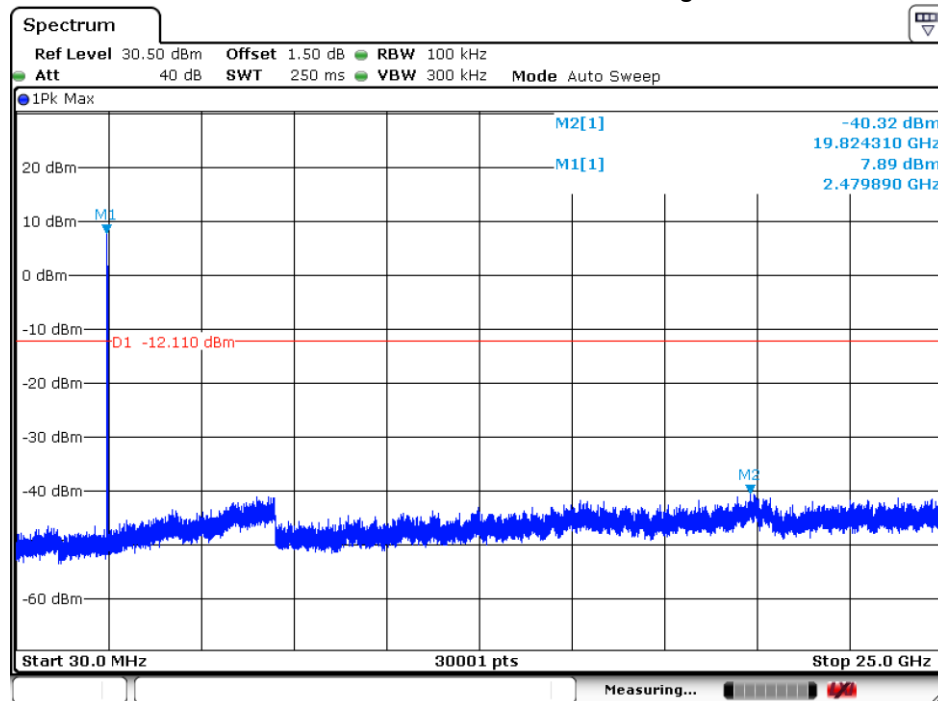
4.8.1.6 GFSK 2M_Highest Channel



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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Date: 15 JAN.2021 14:37:10

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 Emissions

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 (Semi-Anechoic Chamber)				
Limit:	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
	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:

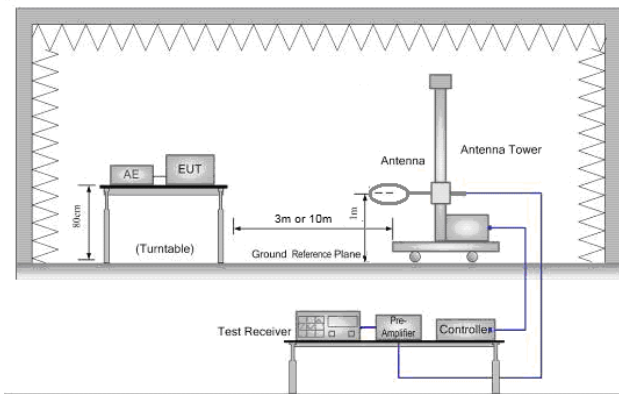


Figure 1. Below 30MHz

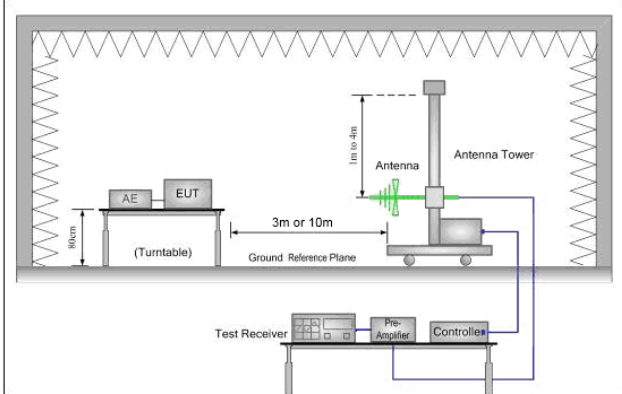


Figure 2. 30MHz to 1GHz

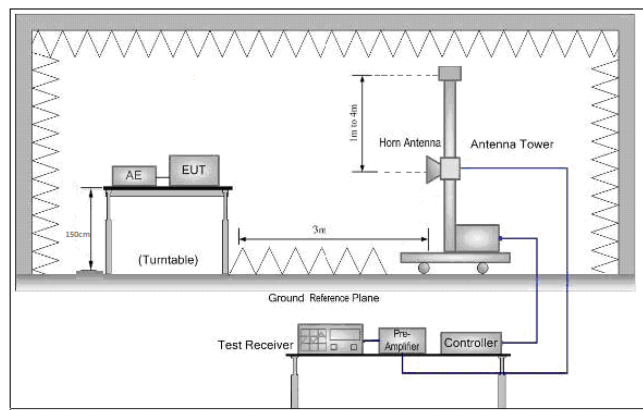


Figure 3. Above 1 GHz

Test Procedure:

- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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



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中国·深圳·科技园中区M-10栋一号厂房

t (86-755) 26012053 f (86-755) 26710594
邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

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Report No.: ZR/2020/C006203

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	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, the middle 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 worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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 6 for details
Test Results:	Pass
Remark:	The Emission Test is performed by the Lab B

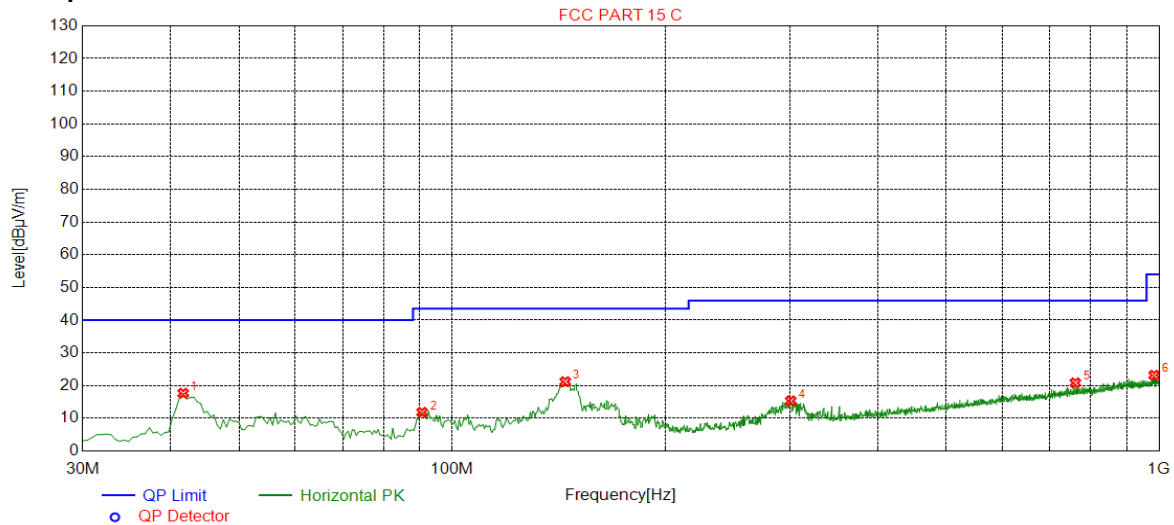


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4.9.1 Radiated Emission below 1GHz 4.9.1.1 Charge + Transmitting

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.6458	17.67	-30.85	40.00	22.33	116	62	Horizontal
2	90.6553	11.85	-33.32	43.50	31.65	138	227	Horizontal
3	144.517	21.20	-35.02	43.50	22.30	190	108	Horizontal
4	301.250	15.34	-27.82	46.00	30.66	143	84	Horizontal
5	761.260	20.84	-17.32	46.00	25.16	157	233	Horizontal
6	983.987	23.18	-14.06	54.00	30.82	128	37	Horizontal

Final Data List

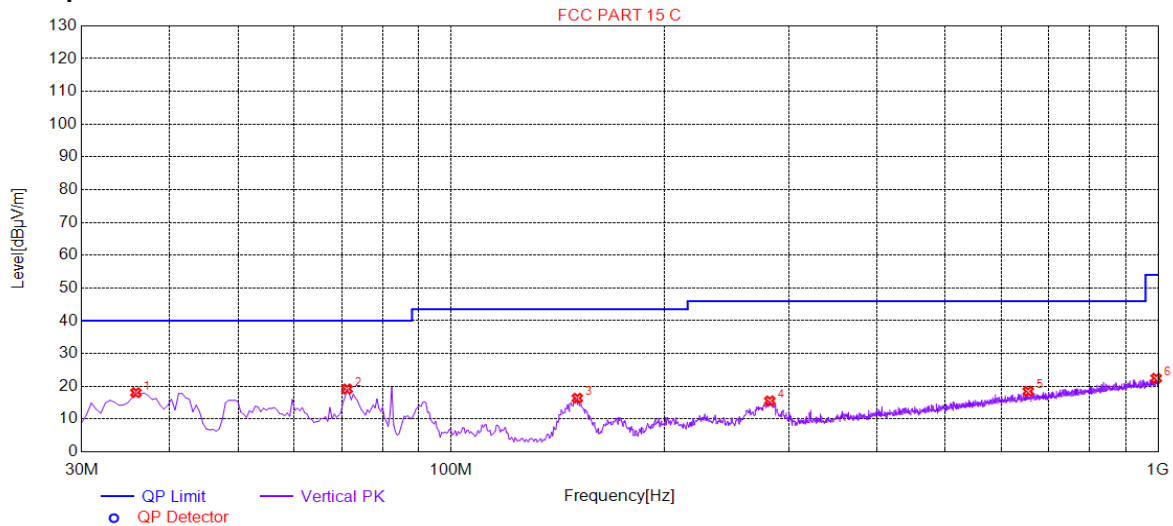


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Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8229	18.07	-32.50	40.00	21.93	116	89	Vertical
2	71.2456	19.20	-34.37	40.00	20.80	138	158	Vertical
3	150.825	16.38	-34.74	43.50	27.12	190	167	Vertical
4	282.326	15.56	-28.32	46.00	30.44	143	1	Vertical
5	654.992	18.48	-19.32	46.00	27.52	157	158	Vertical
6	993.691	22.47	-13.95	54.00	31.53	128	39	Vertical

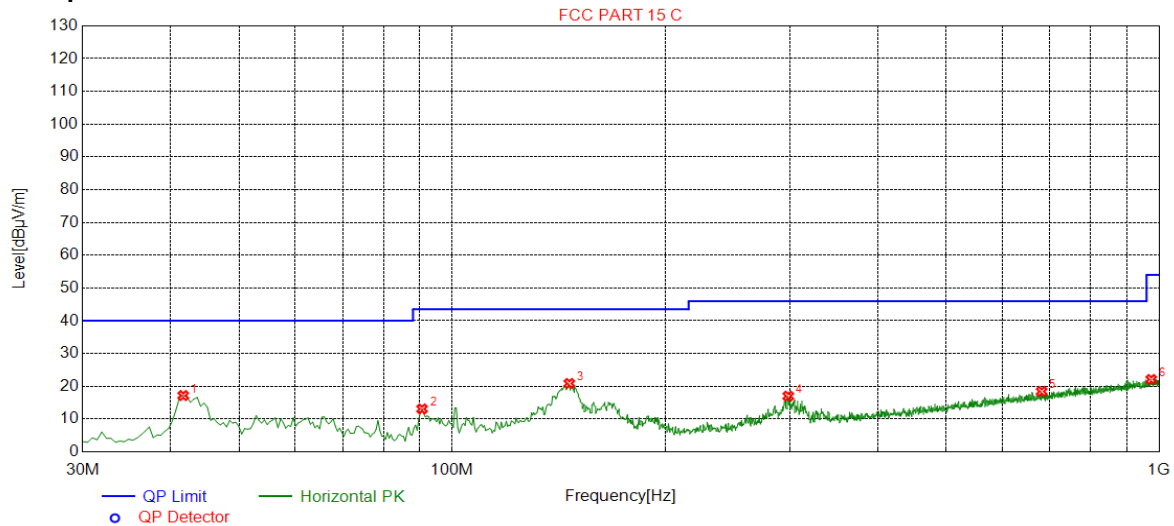
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Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.6458	17.19	-30.85	40.00	22.81	116	225	Horizontal
2	90.6553	13.11	-33.32	43.50	30.39	138	237	Horizontal
3	146.458	20.88	-34.93	43.50	22.62	190	96	Horizontal
4	298.824	17.02	-27.89	46.00	28.98	143	87	Horizontal
5	682.166	18.44	-19.01	46.00	27.56	157	191	Horizontal
6	974.767	22.10	-14.17	54.00	31.90	128	40	Horizontal

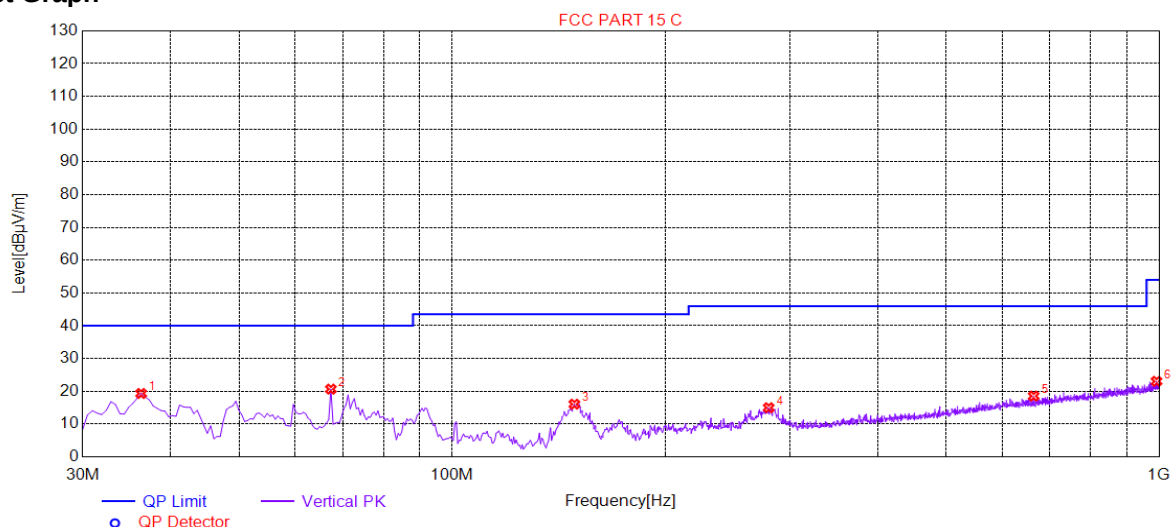
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Test Graph



Suspected List

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NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.3082	19.35	-32.34	40.00	20.65	285	186	Vertical
2	67.3637	20.67	-33.51	40.00	19.33	266	205	Vertical
3	148.884	16.08	-34.83	43.50	27.42	246	159	Vertical
4	280.385	15.00	-28.37	46.00	31.00	215	4	Vertical
5	664.697	18.56	-19.21	46.00	27.44	253	0	Vertical
6	991.750	23.06	-13.97	54.00	30.94	236	217	Vertical

Final Data List

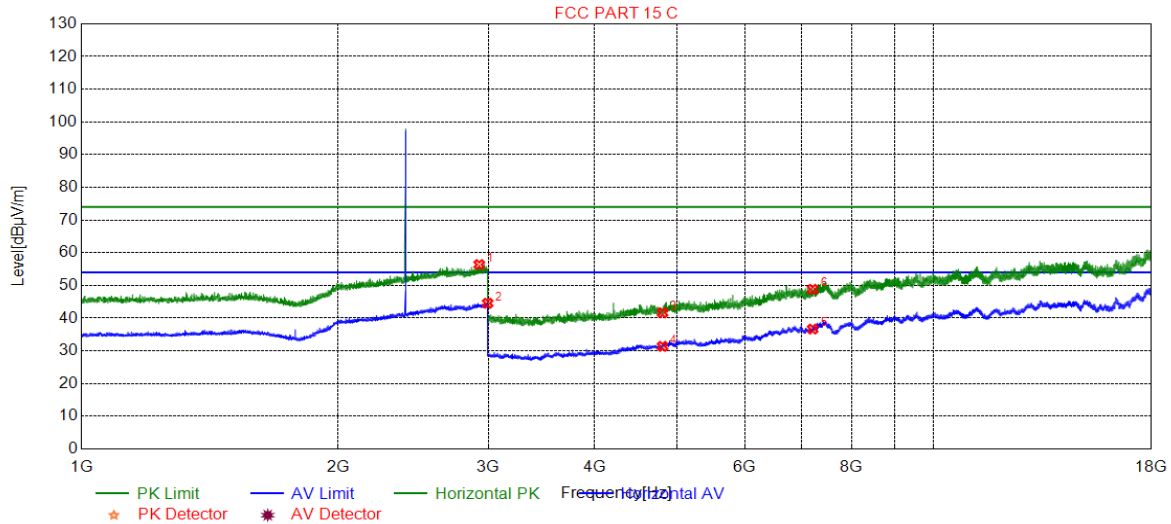


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4.9.2 Transmitter Emission above 1GHz BLE 1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2927.98	56.39	10.70	74.00	17.61	376	71	Horizontal
2	2995.49	44.58	10.70	54.00	9.42	103	14	Horizontal
3	4804.00	41.66	-17.18	74.00	32.34	396	284	Horizontal
4	4804.00	31.40	-17.18	54.00	22.60	196	149	Horizontal
5	7206.00	36.68	-9.48	54.00	17.32	180	132	Horizontal
6	7206.00	48.85	-9.48	74.00	25.15	377	183	Horizontal

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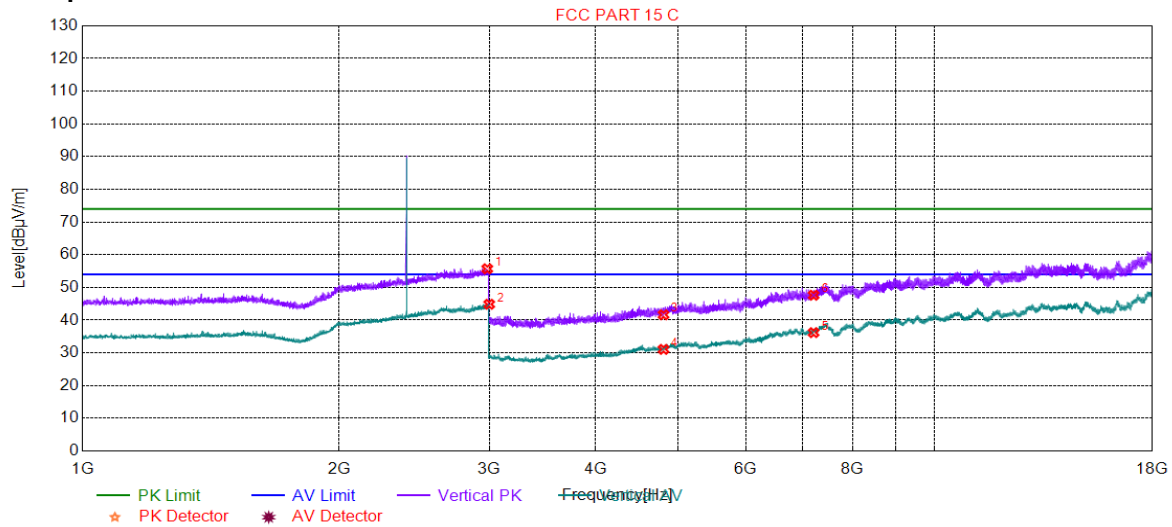
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4.9.2.1 BLE 1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.49	55.72	10.61	74.00	18.28	387	192	Vertical
2	3000.00	44.87	10.78	54.00	9.13	355	47	Vertical
3	4804.00	41.64	-17.18	74.00	32.36	286	228	Vertical
4	4804.00	31.08	-17.18	54.00	22.92	376	126	Vertical
5	7206.00	36.20	-9.48	54.00	17.80	128	160	Vertical
6	7206.00	47.63	-9.48	74.00	26.37	166	75	Vertical

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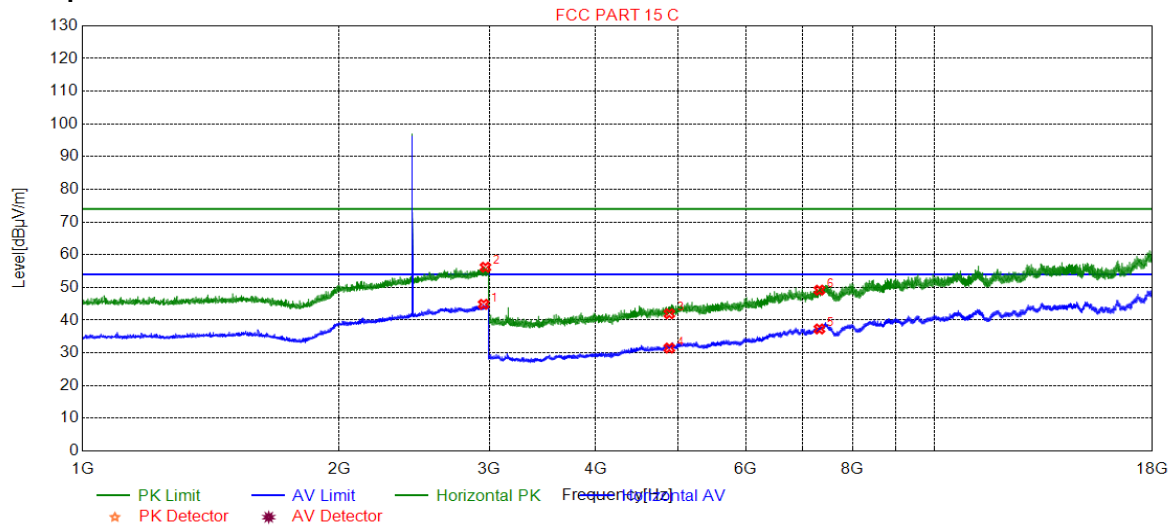
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4.9.2.2 BLE 1M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.98	44.86	10.74	54.00	9.14	186	266	Horizontal
2	2969.49	56.19	10.64	74.00	17.81	262	318	Horizontal
3	4880.00	41.97	-16.81	74.00	32.03	111	14	Horizontal
4	4880.00	31.48	-16.81	54.00	22.52	307	234	Horizontal
5	7320.00	37.32	-9.28	54.00	16.68	222	285	Horizontal
6	7320.00	49.19	-9.28	74.00	24.81	179	115	Horizontal

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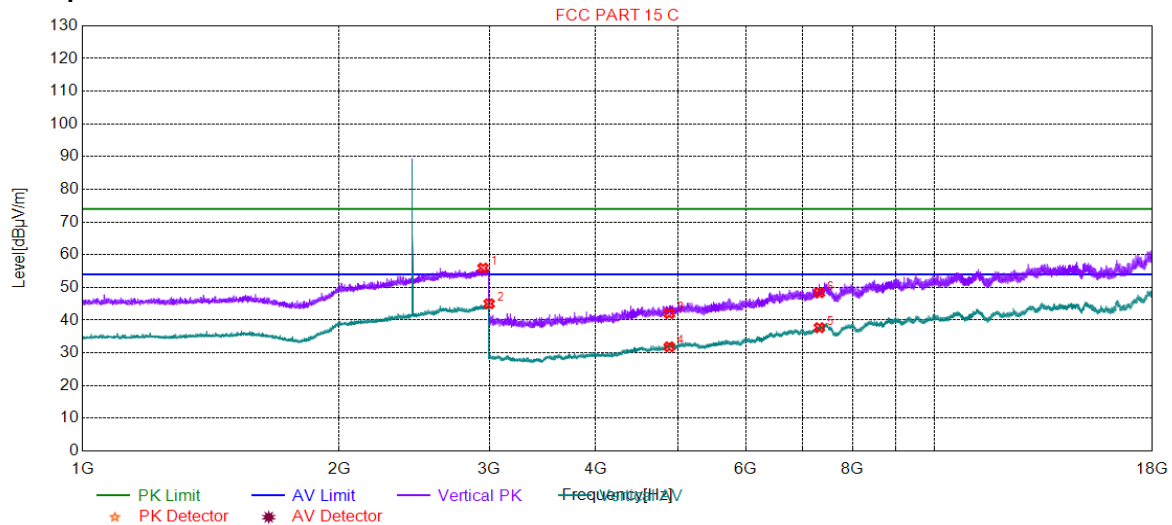
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4.9.2.3 BLE 1M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2950.48	55.94	10.67	74.00	18.06	276	295	Vertical
2	2998.99	45.03	10.76	54.00	8.97	111	192	Vertical
3	4880.00	42.04	-16.81	74.00	31.96	397	25	Vertical
4	4880.00	31.87	-16.81	54.00	22.13	218	279	Vertical
5	7320.00	37.72	-9.28	54.00	16.28	283	194	Vertical
6	7320.00	48.41	-9.28	74.00	25.59	145	279	Vertical

Final Data List



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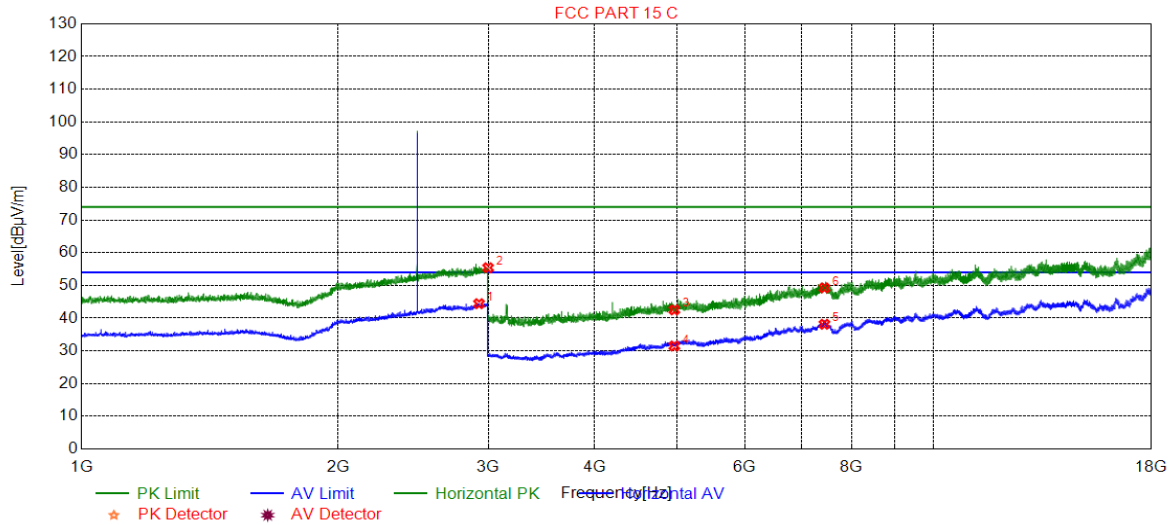
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4.9.2.4 BLE 1M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2926.48	44.44	10.68	54.00	9.56	363	60	Horizontal
2	2998.99	55.42	10.76	74.00	18.58	144	127	Horizontal
3	4960.00	42.54	-16.28	74.00	31.46	121	324	Horizontal
4	4960.00	31.50	-16.28	54.00	22.50	159	313	Horizontal
5	7440.00	38.15	-8.83	54.00	15.85	373	25	Horizontal
6	7440.00	49.26	-8.83	74.00	24.74	128	222	Horizontal

Final Data List

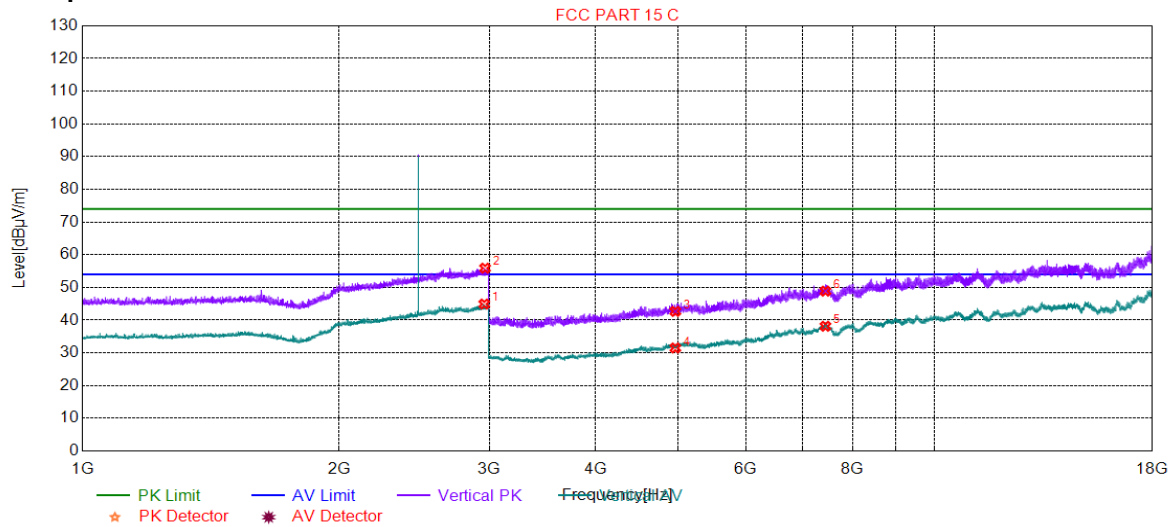


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4.9.2.5 BLE 1M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2959.99	44.94	10.53	54.00	9.06	177	238	Vertical
2	2966.49	55.91	10.57	74.00	18.09	273	331	Vertical
3	4960.00	42.69	-16.28	74.00	31.31	380	330	Vertical
4	4960.00	31.50	-16.28	54.00	22.50	180	313	Vertical
5	7440.00	38.15	-8.83	54.00	15.85	198	25	Vertical
6	7440.00	48.88	-8.83	74.00	25.12	168	8	Vertical

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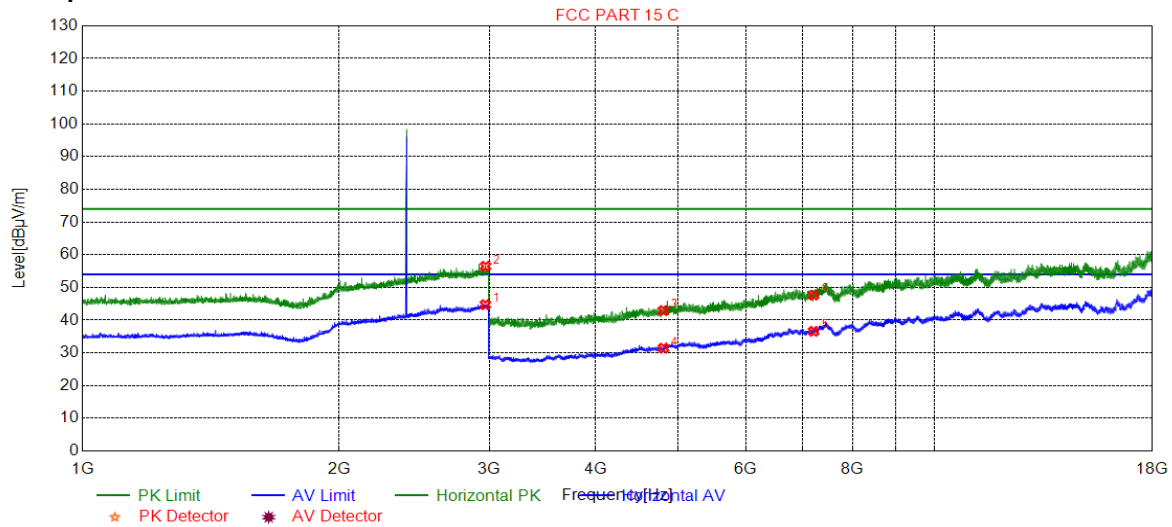
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4.9.2.6 BLE 2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2968.49	44.74	10.61	54.00	9.26	339	343	Horizontal
2	2970.49	56.48	10.64	74.00	17.52	227	348	Horizontal
3	4804.00	42.94	-17.18	74.00	31.06	216	306	Horizontal
4	4804.00	31.45	-17.18	54.00	22.55	129	48	Horizontal
5	7206.00	36.60	-9.48	54.00	17.40	344	133	Horizontal
6	7206.00	47.66	-9.48	74.00	26.34	356	150	Horizontal

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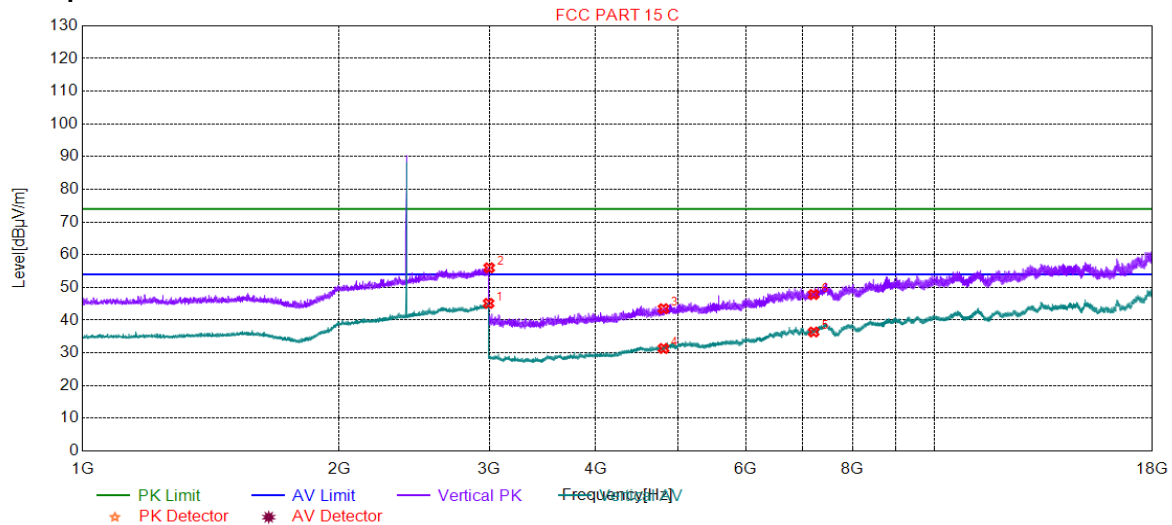
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4.9.2.7 BLE 2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.99	45.14	10.69	54.00	8.86	131	346	Vertical
2	2999.49	56.02	10.77	74.00	17.98	305	76	Vertical
3	4804.00	43.51	-17.18	74.00	30.49	294	135	Vertical
4	4804.00	31.36	-17.18	54.00	22.64	170	270	Vertical
5	7206.00	36.39	-9.48	54.00	17.61	162	66	Vertical
6	7206.00	47.85	-9.48	74.00	26.15	100	15	Vertical

Final Data List

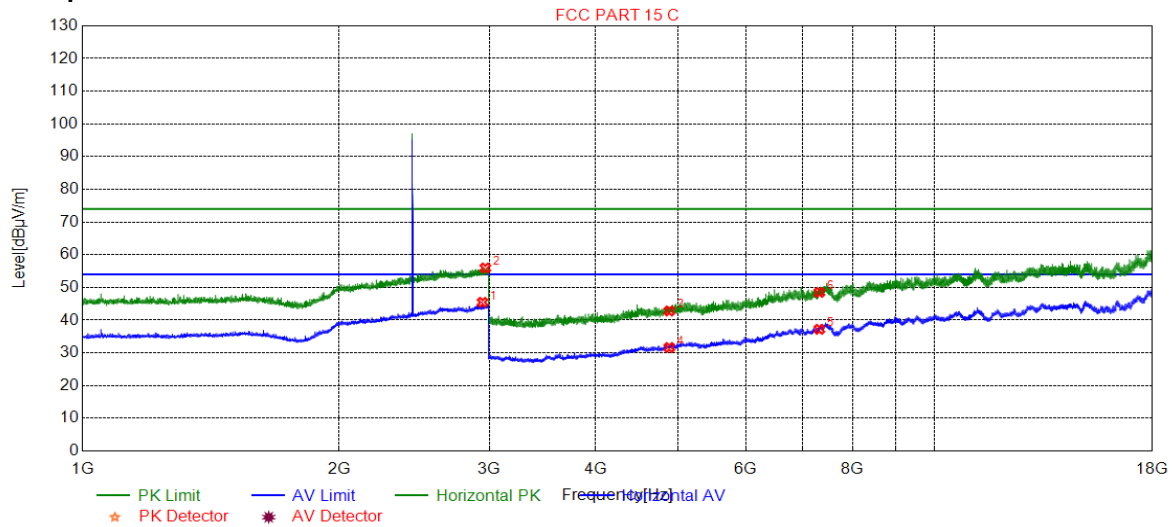


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4.9.2.8 BLE 2M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2945.98	45.47	10.64	54.00	8.53	358	252	Horizontal
2	2968.49	55.96	10.61	74.00	18.04	366	350	Horizontal
3	4880.00	42.82	-16.81	74.00	31.18	260	149	Horizontal
4	4880.00	31.65	-16.81	54.00	22.35	348	353	Horizontal
5	7320.00	37.23	-9.28	54.00	16.77	197	132	Horizontal
6	7320.00	48.51	-9.28	74.00	25.49	191	14	Horizontal

Final Data List

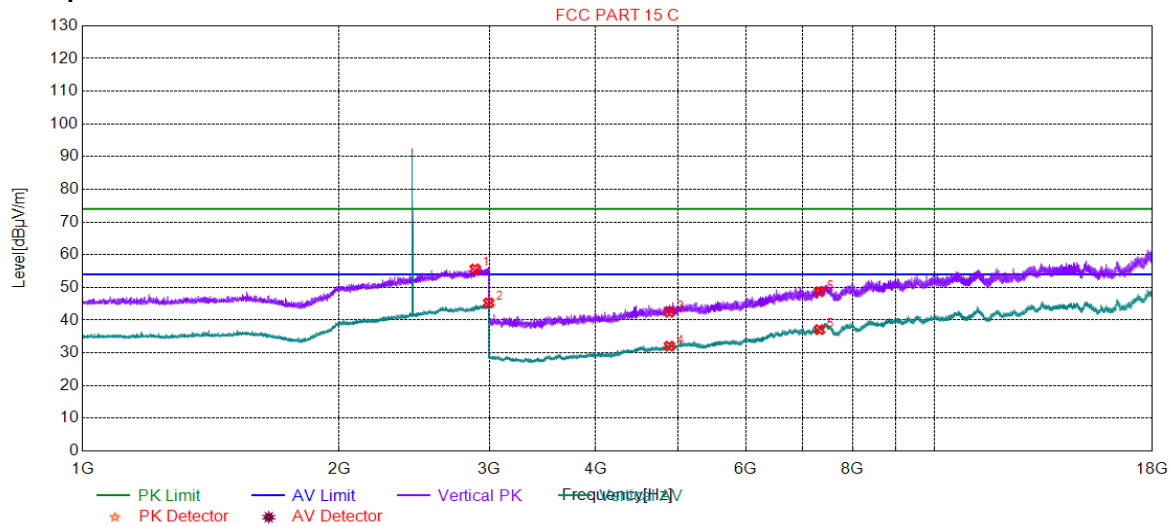


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4.9.2.9 BLE 2M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2887.97	55.67	10.36	74.00	18.33	128	0	Vertical
2	2994.99	45.30	10.69	54.00	8.70	112	109	Vertical
3	4880.00	42.49	-16.81	74.00	31.51	225	329	Vertical
4	4880.00	32.07	-16.81	54.00	21.93	240	261	Vertical
5	7320.00	37.12	-9.28	54.00	16.88	162	244	Vertical
6	7320.00	48.72	-9.28	74.00	25.28	322	58	Vertical

Final Data List



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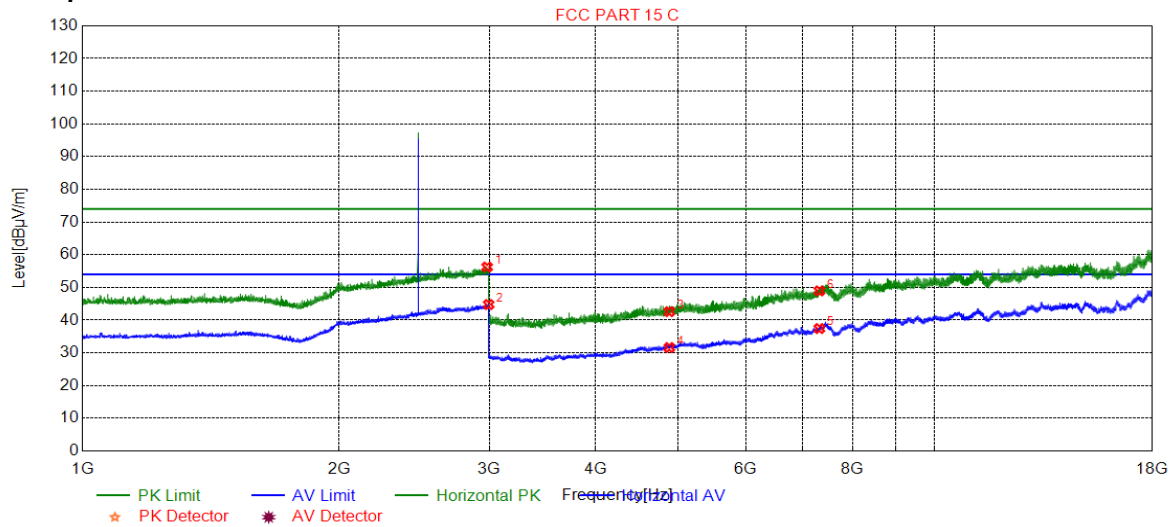
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4.9.2.10 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2982.99	56.25	10.61	74.00	17.75	386	56	Horizontal
2	2995.49	44.79	10.70	54.00	9.21	386	154	Horizontal
3	4880.00	42.62	-16.81	74.00	31.38	150	353	Horizontal
4	4880.00	31.63	-16.81	54.00	22.37	381	97	Horizontal
5	7320.00	37.45	-9.28	54.00	16.55	347	64	Horizontal
6	7320.00	48.96	-9.28	74.00	25.04	290	64	Horizontal

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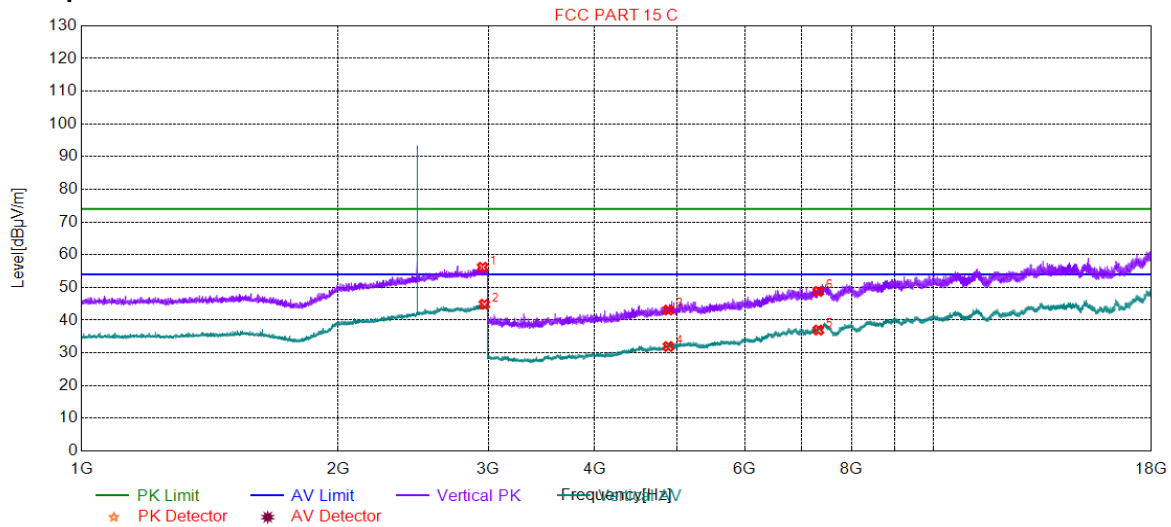
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4.9.2.11 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2954.48	56.18	10.73	74.00	17.82	376	316	Vertical
2	2968.99	44.87	10.62	54.00	9.13	371	295	Vertical
3	4880.00	43.11	-16.81	74.00	30.89	295	211	Vertical
4	4880.00	31.96	-16.81	54.00	22.04	338	346	Vertical
5	7320.00	36.99	-9.28	54.00	17.01	268	330	Vertical
6	7320.00	48.79	-9.28	74.00	25.21	291	143	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
- 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.
- 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.
- 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 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

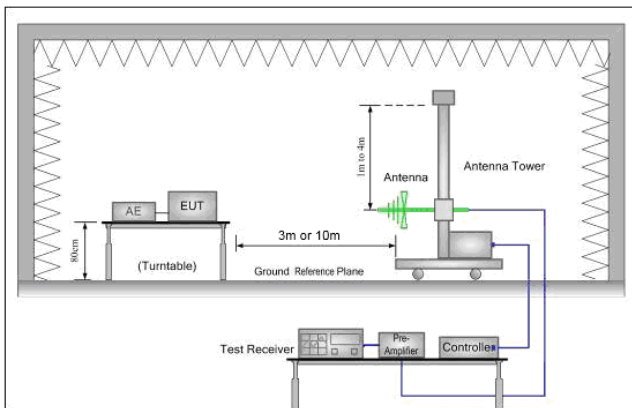


Figure 1. 30MHz to 1GHz

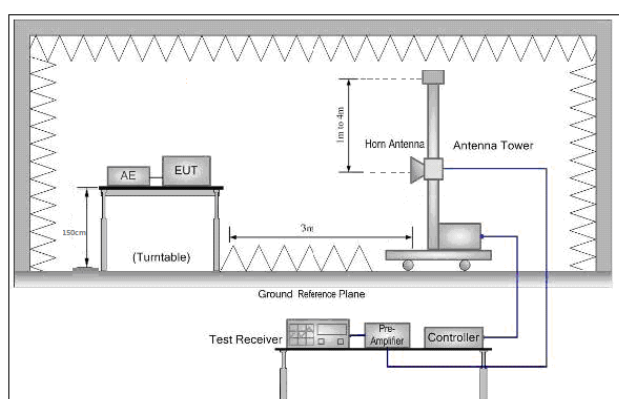


Figure 2. Above 1 GHz

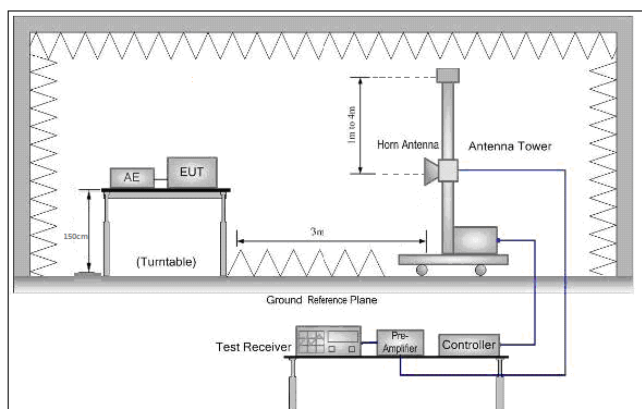


Figure 3. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. 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 i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq$ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.



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Report No.: ZR/2020/C006203

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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 6 for details
Test Results:	Pass
Remark:	The Emission Test is performed by the Lab B



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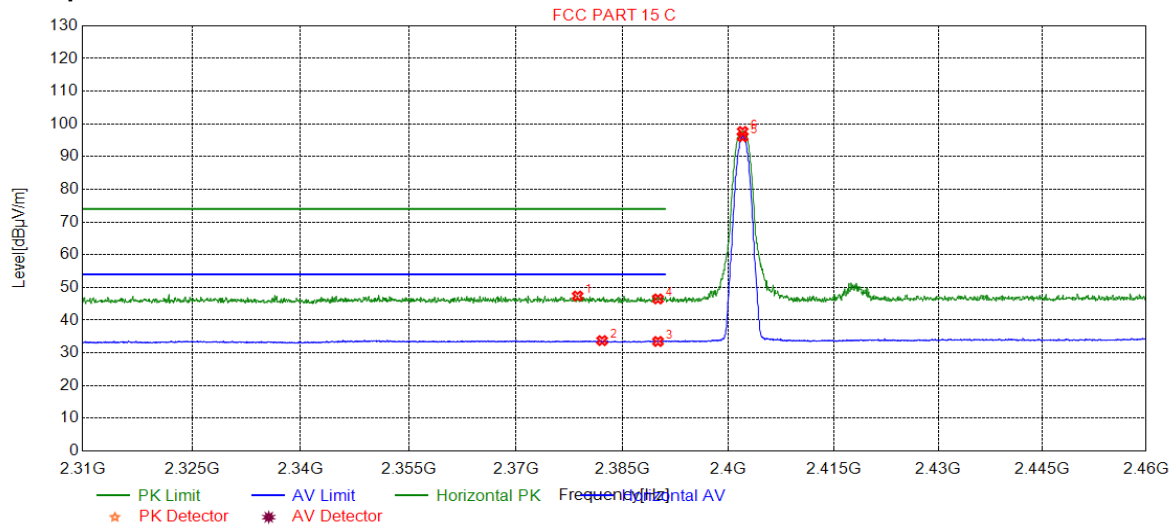
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Shenzhen Branch, EMC Test Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.10.1 Test Plots

4.10.1.1 BLE 1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2378.65	47.40	7.98	74.00	26.60	289	307	Horizontal
2	2382.11	33.76	7.93	54.00	20.24	262	132	Horizontal
3	2390.00	33.50	7.98	54.00	20.50	221	14	Horizontal
4	2390.00	46.50	7.98	74.00	27.50	365	269	Horizontal
5	2402.00	96.09	8.06	0.00	-96.09	340	169	Horizontal
6	2402.00	97.70	8.06	0.00	-97.70	266	177	Horizontal

Final Data List

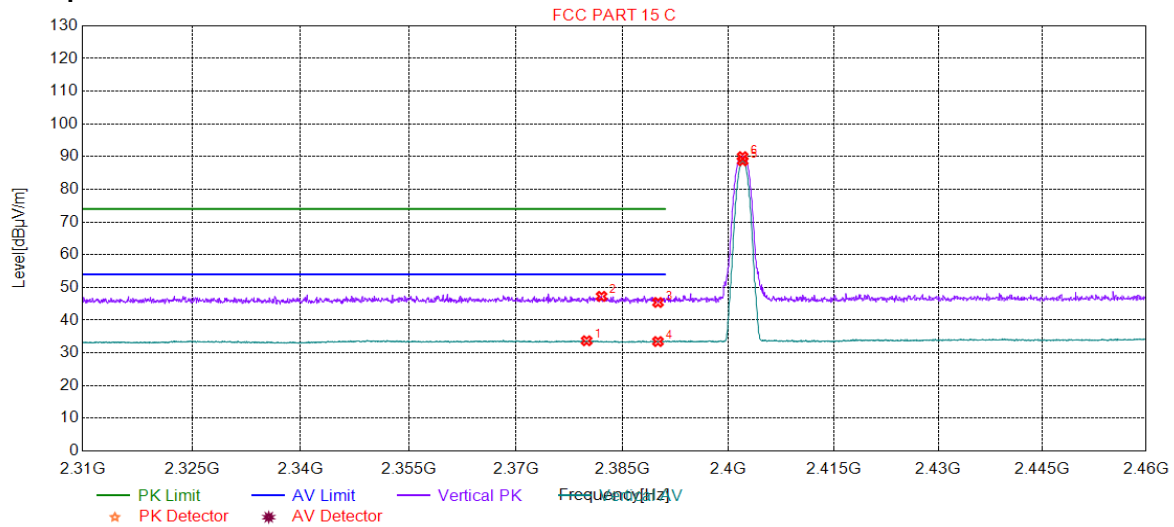


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4.10.1.2 BLE 1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.93	33.71	8.00	54.00	20.29	354	177	Vertical
2	2382.03	47.28	7.93	74.00	26.72	293	169	Vertical
3	2390.00	45.42	7.98	74.00	28.58	332	69	Vertical
4	2390.00	33.48	7.98	54.00	20.52	138	154	Vertical
5	2402.00	88.73	8.06	0.00	-88.73	180	272	Vertical
6	2402.00	90.00	8.06	0.00	-90.00	117	269	Vertical

Final Data List

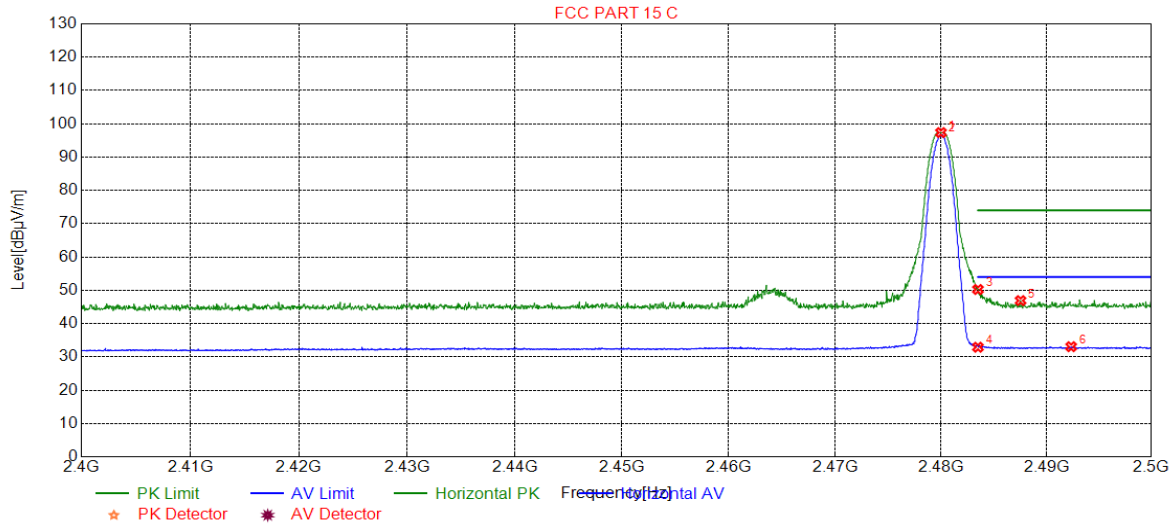


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4.10.1.3 BLE 1M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	97.35	8.54	0.00	-97.35	329	145	Horizontal
2	2480.00	96.63	8.54	0.00	-96.63	282	182	Horizontal
3	2483.50	50.27	8.50	74.00	23.73	320	182	Horizontal
4	2483.50	32.94	8.50	54.00	21.06	324	32	Horizontal
5	2487.54	46.93	8.56	74.00	27.07	360	148	Horizontal
6	2492.34	33.10	8.61	54.00	20.90	394	130	Horizontal

Final Data List

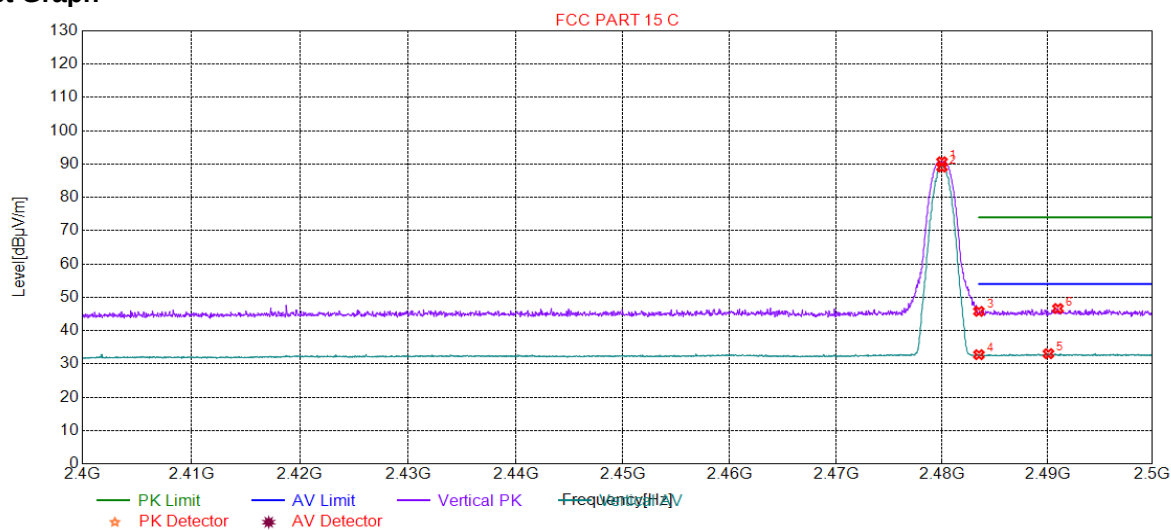


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4.10.1.4 BLE 1M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	90.69	8.54	0.00	-90.69	255	317	Vertical
2	2480.00	89.10	8.54	0.00	-89.10	245	302	Vertical
3	2483.50	45.80	8.50	74.00	28.20	124	291	Vertical
4	2483.50	32.80	8.50	54.00	21.20	393	265	Vertical
5	2490.09	33.10	8.62	54.00	20.90	355	13	Vertical
6	2490.99	46.64	8.62	74.00	27.36	179	182	Vertical

Final Data List

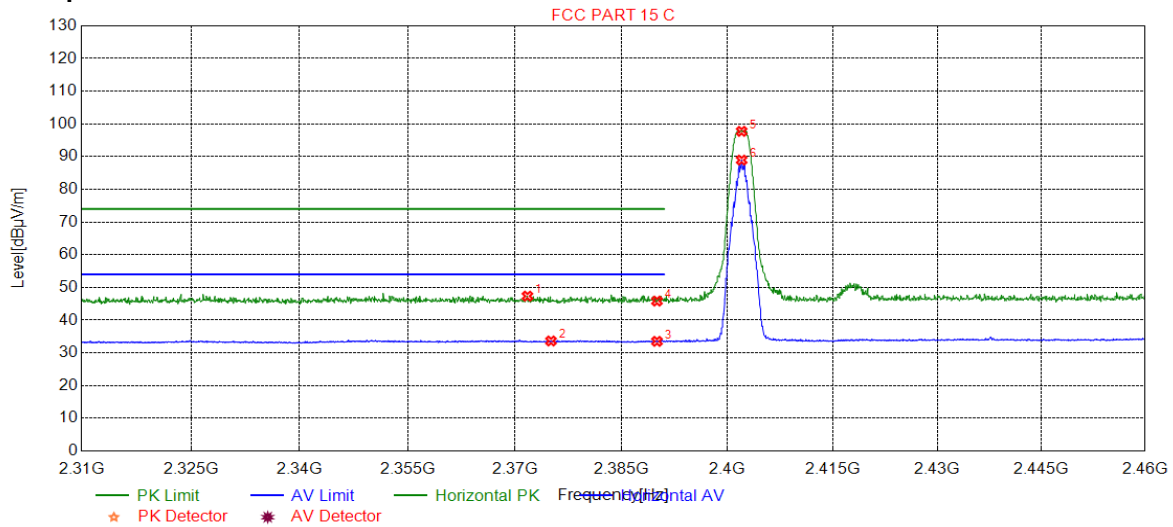
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4.10.1.5 BLE 2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2371.75	47.36	8.04	74.00	26.64	275	114	Horizontal
2	2375.05	33.65	7.94	54.00	20.35	177	200	Horizontal
3	2390.00	33.53	7.98	54.00	20.47	184	226	Horizontal
4	2390.00	45.85	7.98	74.00	28.15	117	189	Horizontal
5	2402.00	97.74	8.06	0.00	-97.74	274	174	Horizontal
6	2402.00	88.95	8.06	0.00	-88.95	103	178	Horizontal

Final Data List

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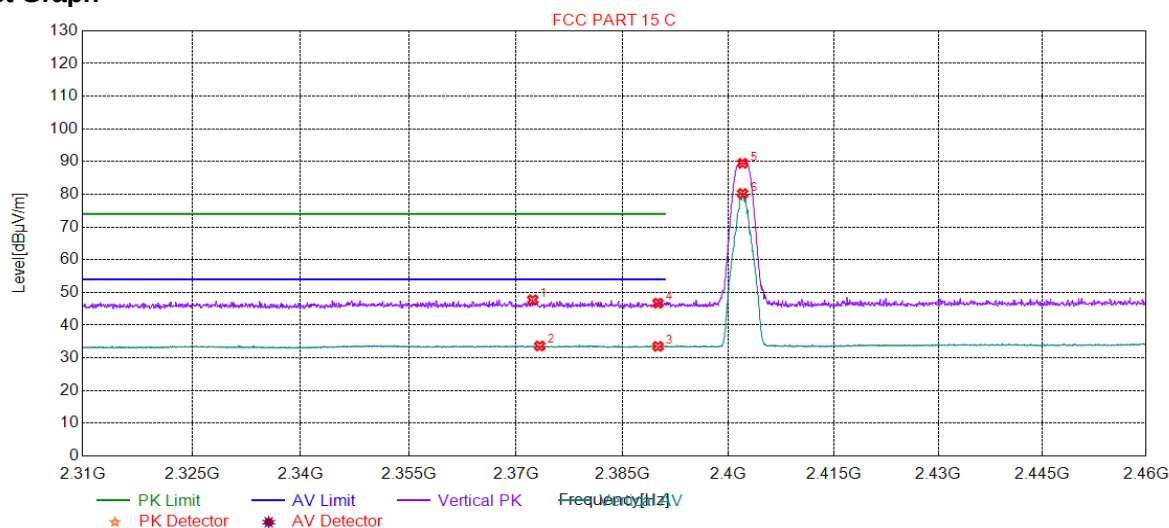


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4.10.1.6 BLE 2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2372.35	47.76	8.02	74.00	26.24	132	6	Vertical
2	2373.33	33.65	7.99	54.00	20.35	270	96	Vertical
3	2390.00	33.52	7.98	54.00	20.48	373	54	Vertical
4	2390.00	46.73	7.98	74.00	27.27	335	309	Vertical
5	2402.00	89.49	8.06	0.00	-89.49	156	264	Vertical
6	2402.00	80.26	8.06	0.00	-80.26	198	283	Vertical

Final Data List

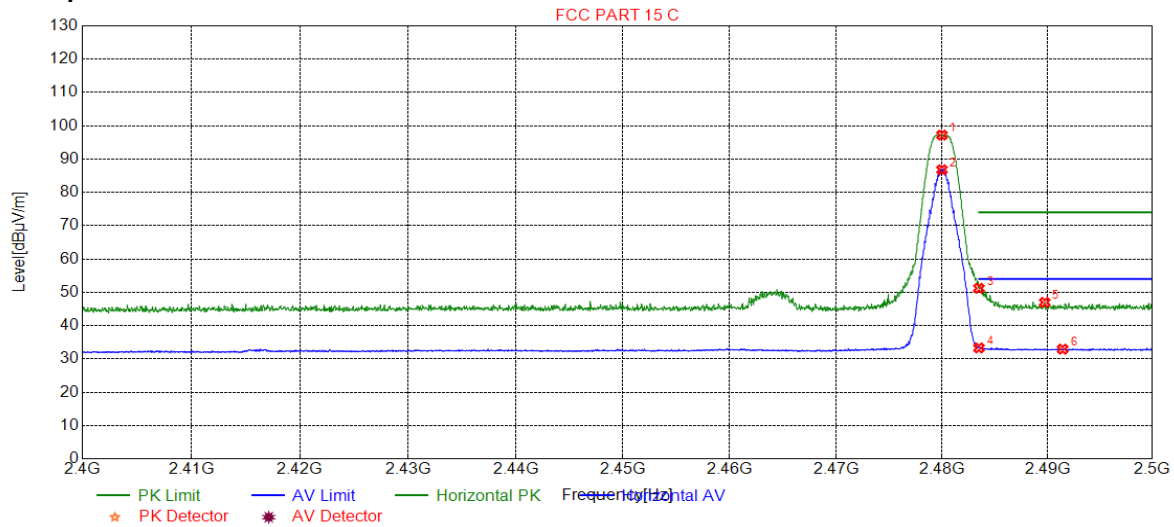


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4.10.1.7 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	97.20	8.54	0.00	-97.20	231	178	Horizontal
2	2480.00	86.80	8.54	0.00	-86.80	266	181	Horizontal
3	2483.50	51.22	8.50	74.00	22.78	313	181	Horizontal
4	2483.50	33.32	8.50	54.00	20.68	127	181	Horizontal
5	2489.74	46.99	8.62	74.00	27.01	156	324	Horizontal
6	2491.44	32.96	8.61	54.00	21.04	329	139	Horizontal

Final Data List

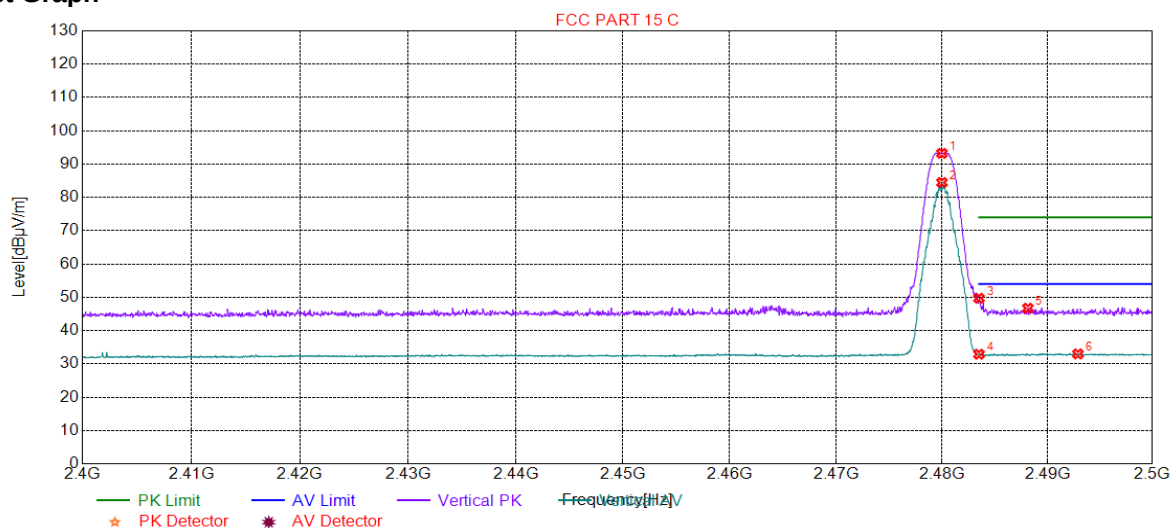


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4.10.1.8 BLE 2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	93.22	8.54	0.00	-93.22	245	285	Vertical
2	2480.00	84.48	8.54	0.00	-84.48	393	289	Vertical
3	2483.50	49.74	8.50	74.00	24.26	380	285	Vertical
4	2483.50	32.93	8.50	54.00	21.07	112	289	Vertical
5	2488.14	46.75	8.57	74.00	27.25	352	2	Vertical
6	2492.89	33.03	8.60	54.00	20.97	262	239	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.



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%

Lab B:

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



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6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20

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 PCE&NII&DTS&DSS Setup Photos.

The End



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