

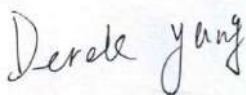
# FCC TEST REPORT

**Application No.:** AR/2020/C0002  
**Applicant:** Xiaomi Communications Co., Ltd.  
**Address of Applicant:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**Manufacturer:** Xiaomi Communications Co., Ltd.  
**Address of Manufacturer:** #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085  
**EUT Description:** Mobile Phone  
**Model No.:** M2101K9G  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZK9G  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2020/12/21  
**Date of Test:** 2020/12/21 to 2021/1/18  
**Date of Issue:** 2021/4/30

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Derek Yang  
Wireless Laboratory Manager

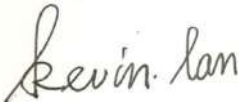



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## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-01-19		Original
02		2021/4/30	Kevin.Lan	1.Add test site Information 2.Modify data conversion error of antenna height 3.Update equipment list

\*This report supersedes our previous report AR/2020/C000203, issued on 2021-1-19, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		(Kevin.Lan) /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 4.3	PASS	A
DTS (6 dB) Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS	B
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS	B

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

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### 3 General Information

#### 3.1 Details of Client

Applicant:	Xiaomi Communications Co., Ltd.
Address of Applicant	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer:	Xiaomi Communications Co., Ltd.
Address of Manufacturer	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

#### 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.

• **FCC –Designation Number: CN1271**



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### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	M2101K9G
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12
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:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	PIFA Antenna
Antenna Gain:	-1.8dBi(ANT1);-0.9 dBi(ANT2);

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

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>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.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -1.8dBi(ANT1);-0.9dBi(ANT2).</p>	

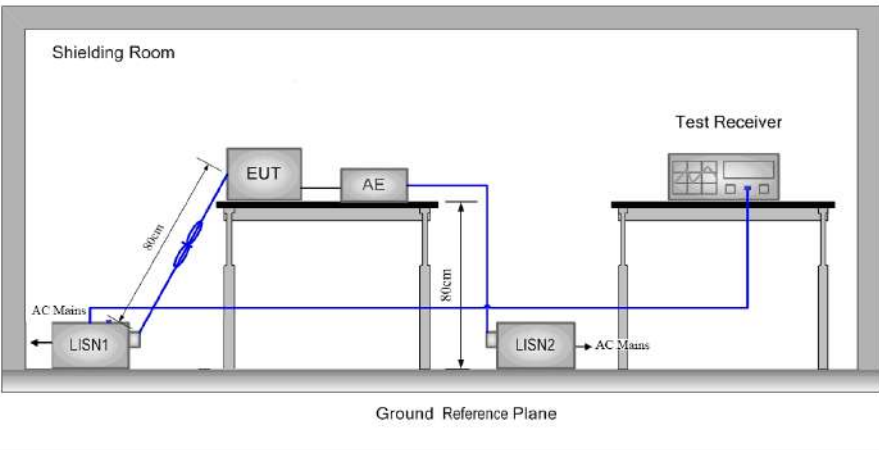


## 4.2 AC Power Line Conducted Emissions

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:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol>		



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Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

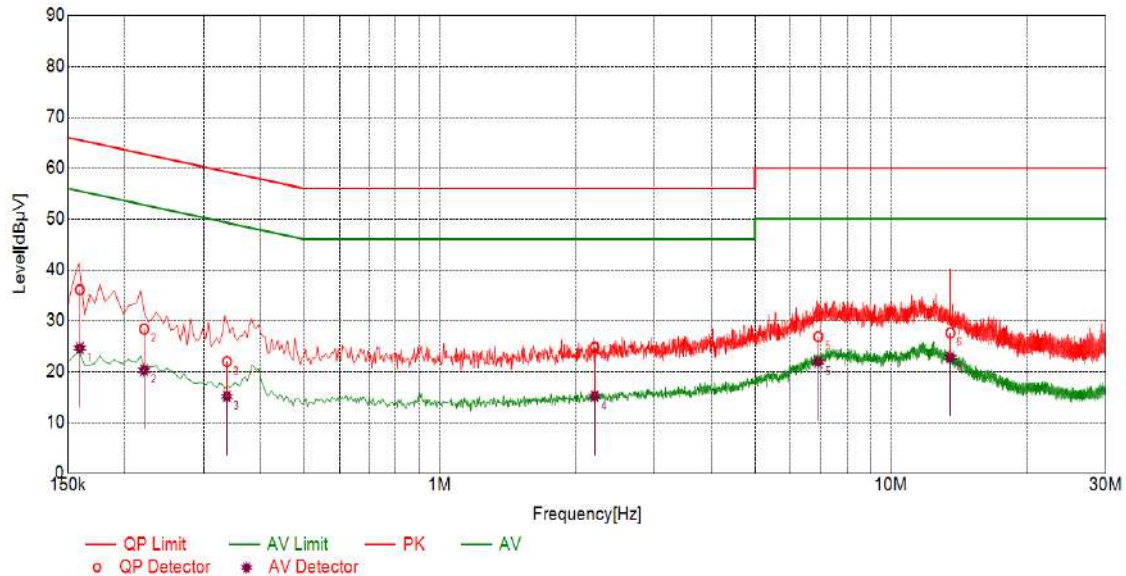


### Measurement Data

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

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

### Live Line:



### Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1596	10.10	36.08	65.49	29.41	24.59	55.49	30.90
2	0.2215	10.10	28.37	62.76	34.39	20.27	52.76	32.49
3	0.3381	10.10	21.96	59.25	37.29	15.14	49.25	34.11
4	2.2081	10.10	24.75	56.00	31.25	15.18	46.00	30.82
5	6.9129	10.10	26.87	60.00	33.13	21.87	50.00	28.13
6	13.5620	10.11	27.59	60.00	32.41	22.81	50.00	27.19



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Shenzhen Branch Inspection & Testing Services

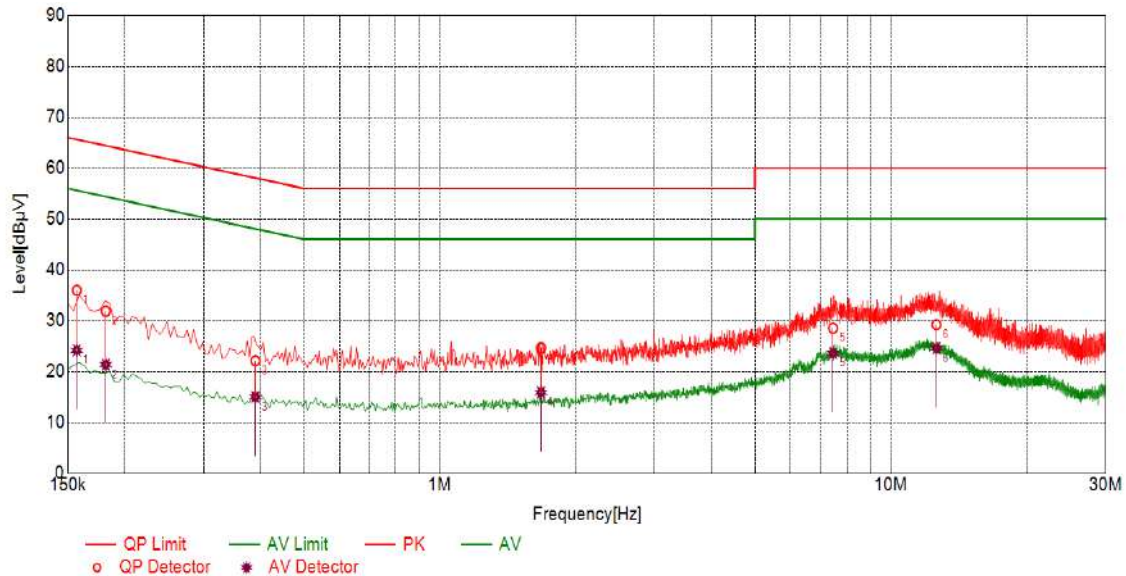
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Neutral Line:



### Test Graph

#### Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1571	10.10	35.97	65.61	29.64	24.19	55.61	31.42
2	0.1823	10.10	31.87	64.38	32.51	21.36	54.38	33.02
3	0.3910	10.10	22.10	58.04	35.94	14.99	48.04	33.05
4	1.6787	10.10	24.64	56.00	31.36	15.91	46.00	30.09
5	7.4422	10.10	28.53	60.00	31.47	23.59	50.00	26.41
6	12.6258	10.11	29.22	60.00	30.78	24.59	50.00	25.41

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 [%]
BLE_1M	ANT1:CH0, CH19, CH39	61.57
BLE_2M	ANT1:CH0, CH19, CH39	32.41
BLE_1M	ANT2:CH0, CH19, CH39	61.75
BLE_2M	ANT2:CH0, CH19, CH39	32.41



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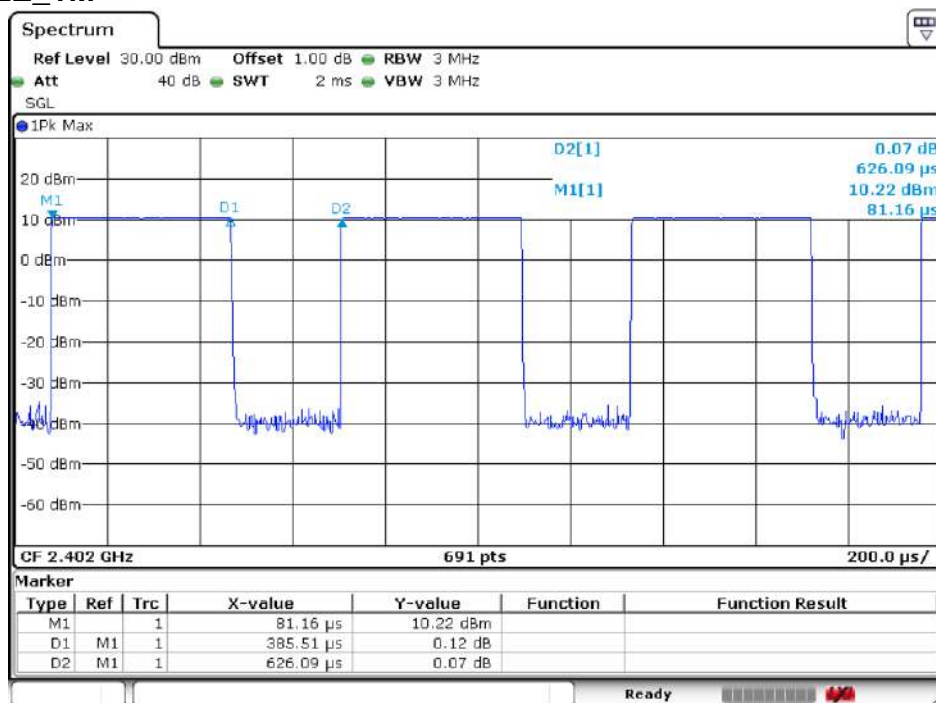
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### 4.3.2 Test Plots

#### 4.3.2.1 ANT1

##### 4.3.2.1.1 BLE\_1M



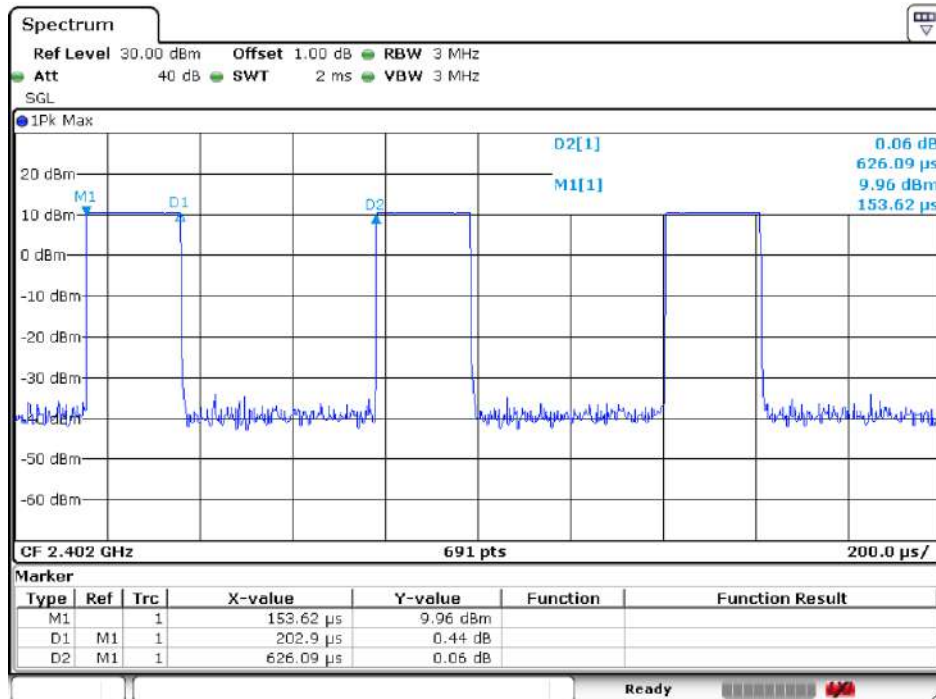
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### 4.3.2.1.2 BLE\_2M



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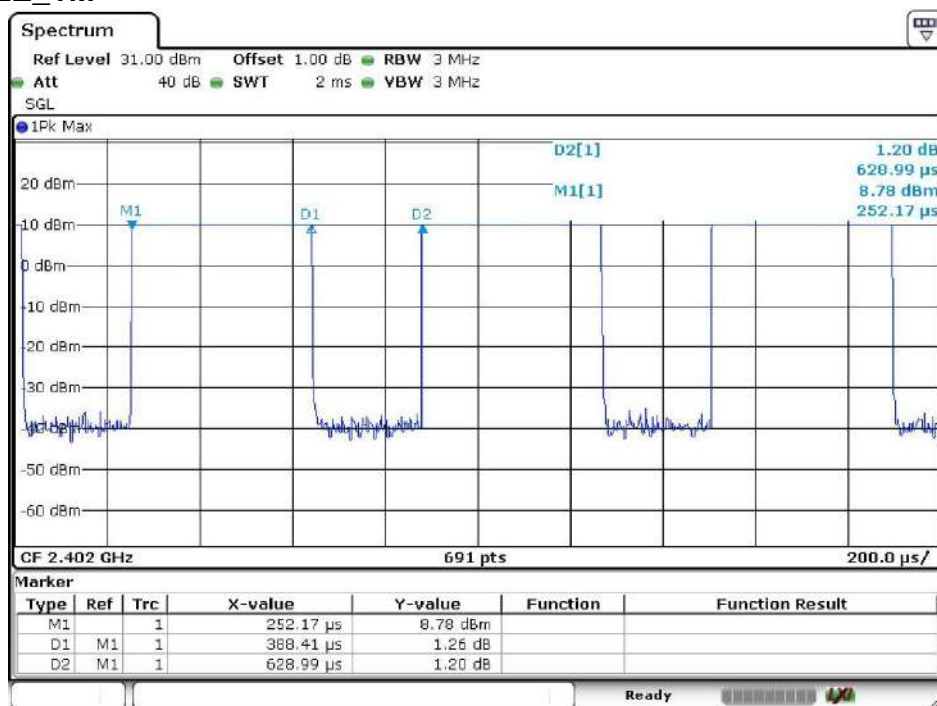


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### 4.3.2.2 ANT2

#### 4.3.2.2.1 BLE\_1M



Date: 14 JAN 2021 11:41:03

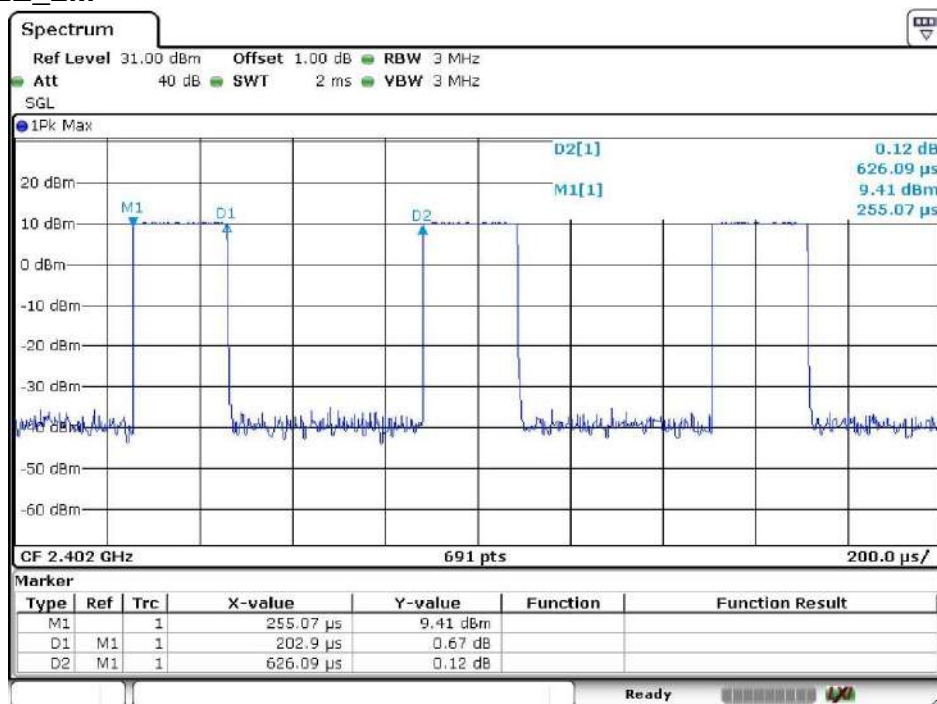


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### 4.3.2.2.2 BLE\_2M



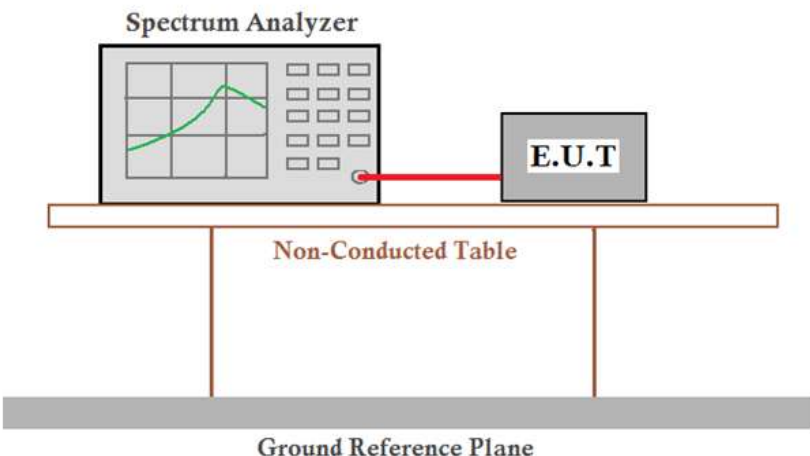
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### 4.4 Conducted Output Power

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 5.10 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:

###### ANT1:

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.44	30.00	Pass
Middle	11.36	30.00	Pass
Highest	9.88	30.00	Pass

GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.54	30.00	Pass
Middle	11.48	30.00	Pass
Highest	9.91	30.00	Pass

###### ANT2:

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.21	30.00	Pass
Middle	10.83	30.00	Pass
Highest	8.52	30.00	Pass

GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	10.28	30.00	Pass
Middle	10.92	30.00	Pass
Highest	8.58	30.00	Pass



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### 4.4.2 Test Plots

#### 4.4.2.1 GFSK 1M\_ANT1\_Lowest Channel



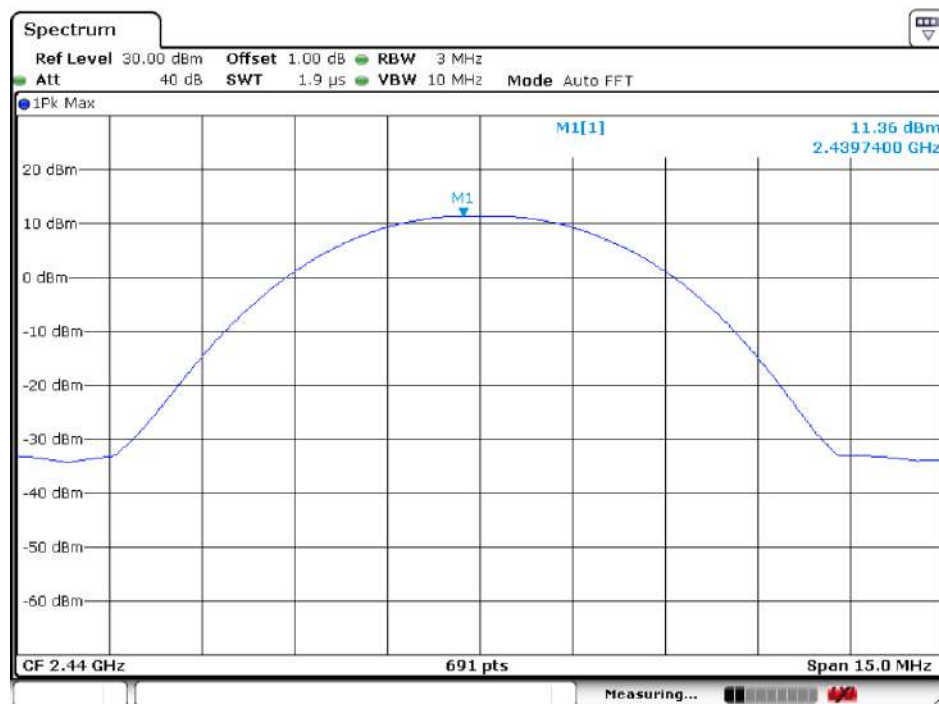
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### 4.4.2.2 GFSK 1M\_ANT1\_Middle Channel



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### 4.4.2.3 GFSK 1M\_ANT1\_Highest Channel



Date: 8. JAN. 2021 09:35:55



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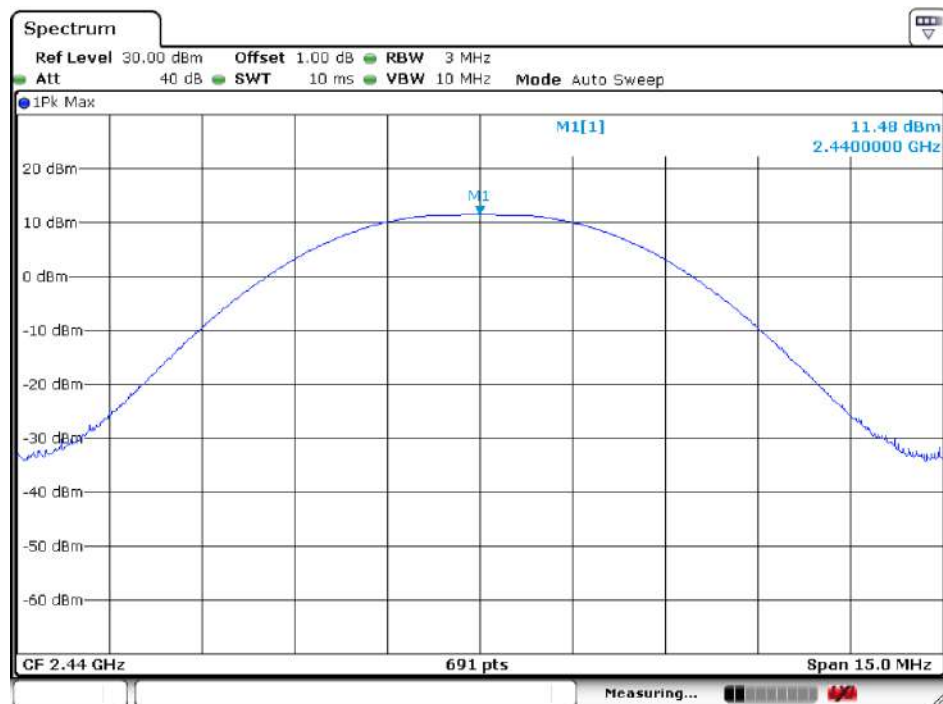


### 4.4.2.4 GFSK 2M\_ANT1\_Lowest Channel



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### 4.4.2.5 GFSK 2M\_ANT1\_Middle Channel



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### 4.4.2.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8.JAN.2021 09:37:02

### 4.4.2.7 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:25:25



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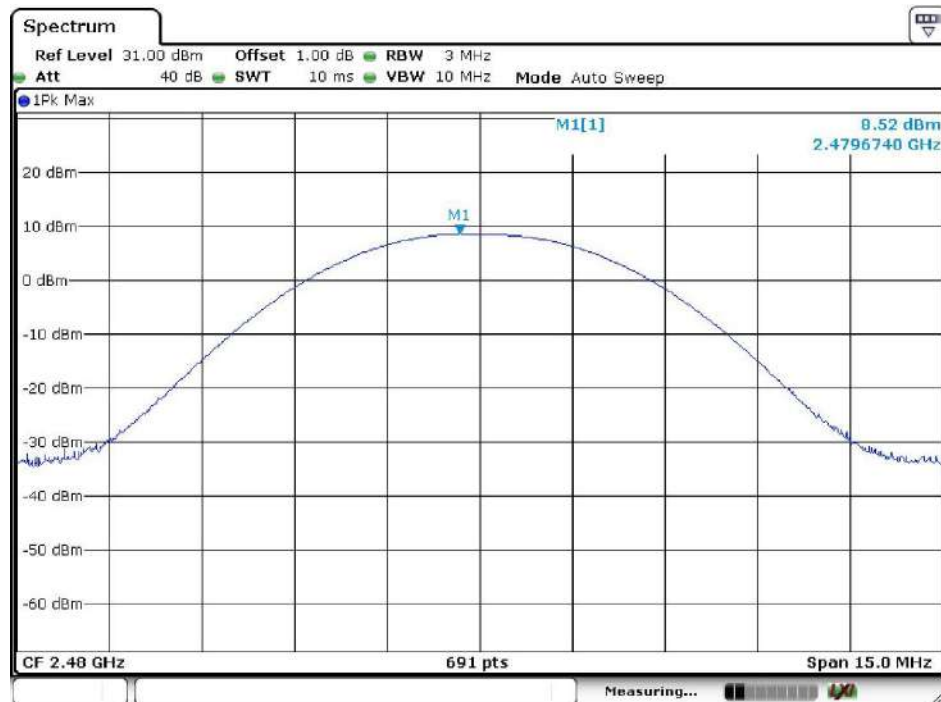
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### 4.4.2.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:26:08

### 4.4.2.9 GFSK 1M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:26:31



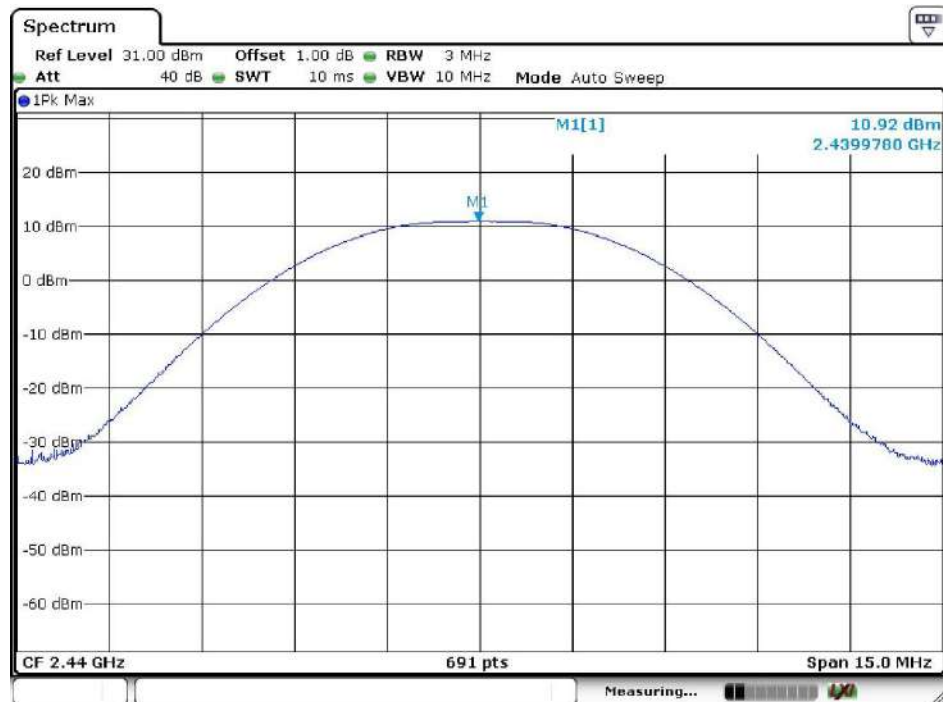
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### 4.4.2.10 GFSK 2M\_ANT2\_Lowest Channel



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### 4.4.2.11 GFSK 2M\_ANT2\_Middle Channel



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## 4.4.2.12 GFSK 2M\_ANT2\_Highest Channel



Date: 14 JAN 2021 11:28:02

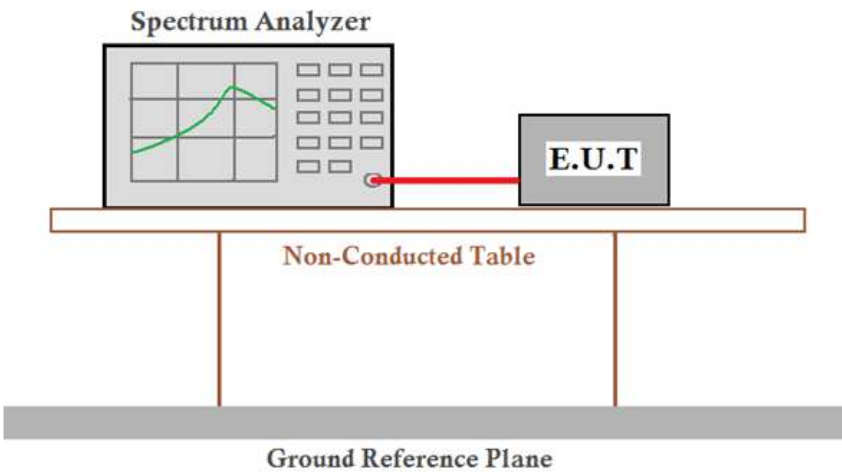


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## 4.5 DTS (6 dB) Bandwidth

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 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\geq 500$ kHz
Test Results:	Pass



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#### 4.5.1 Test Results

##### ANT1:

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

##### ANT2:

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

Mode	Test Channel	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	1.15	≥500	Pass
	Middle	1.17	≥500	Pass
	Highest	1.17	≥500	Pass

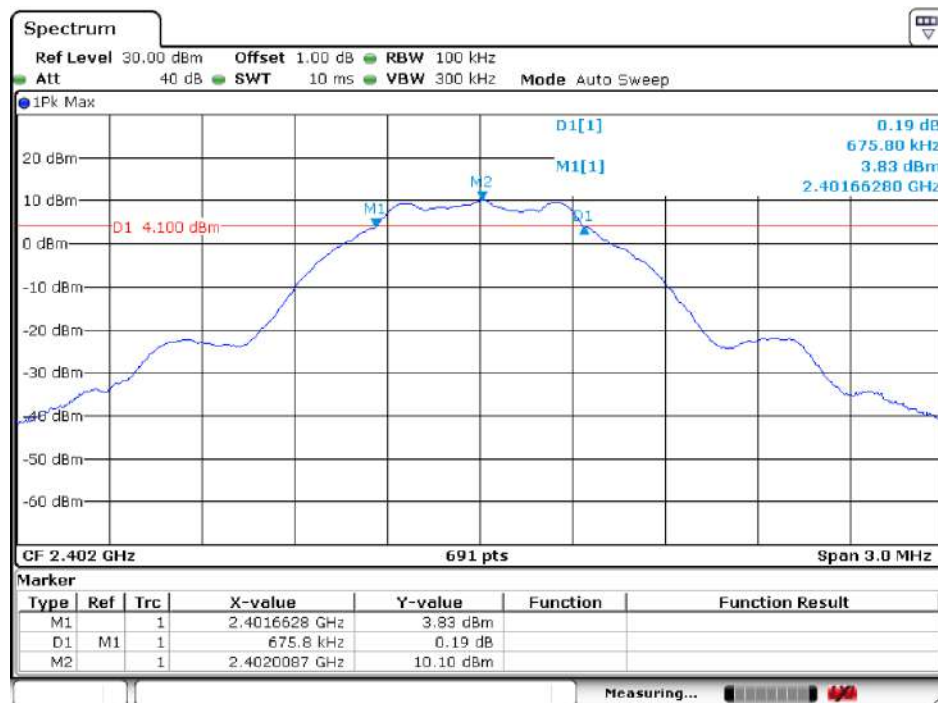


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### 4.5.2 Test Plots

#### 4.5.2.1 GFSK 1M\_ANT1\_Lowest Channel



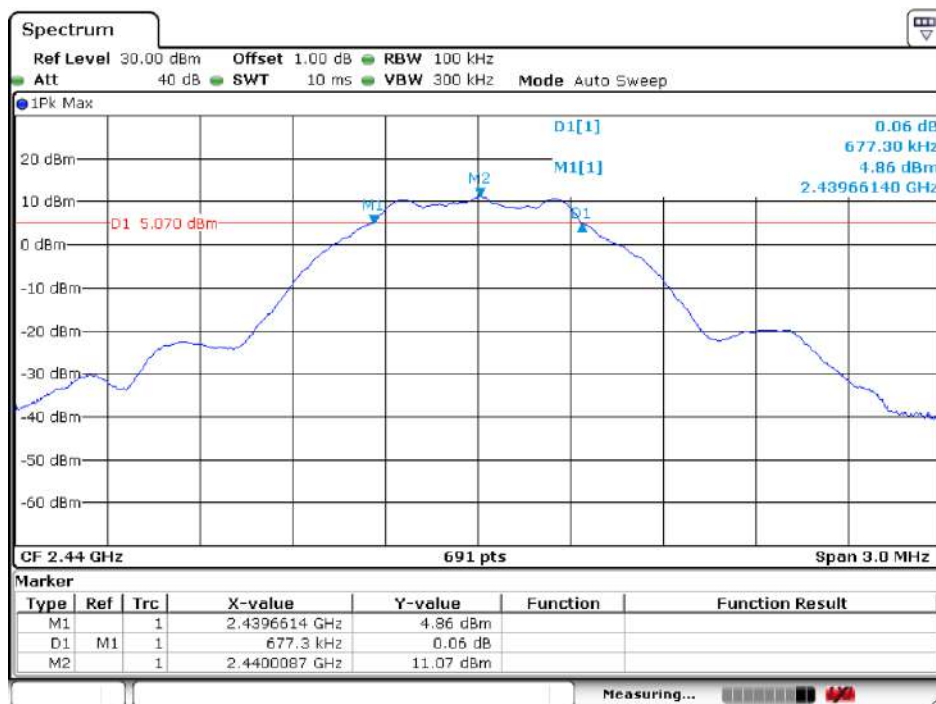
Date: 8 JAN 2021 09:55:40



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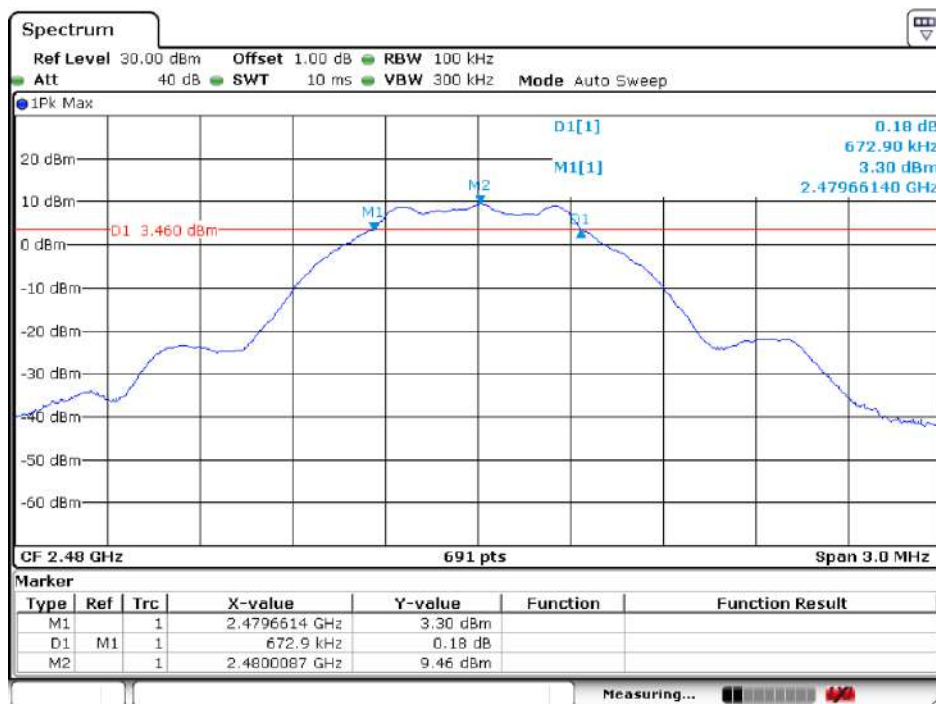
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### 4.5.2.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8. JAN. 2021 09:56:13

### 4.5.2.3 GFSK 1M\_ANT1\_Highest Channel



Date: 8. JAN. 2021 09:56:52



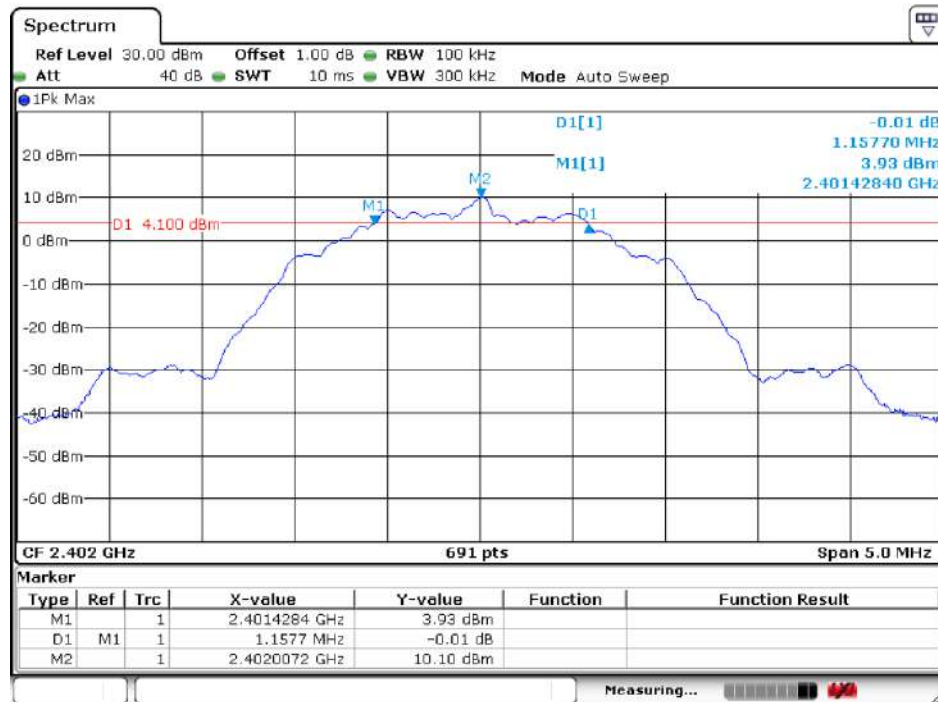
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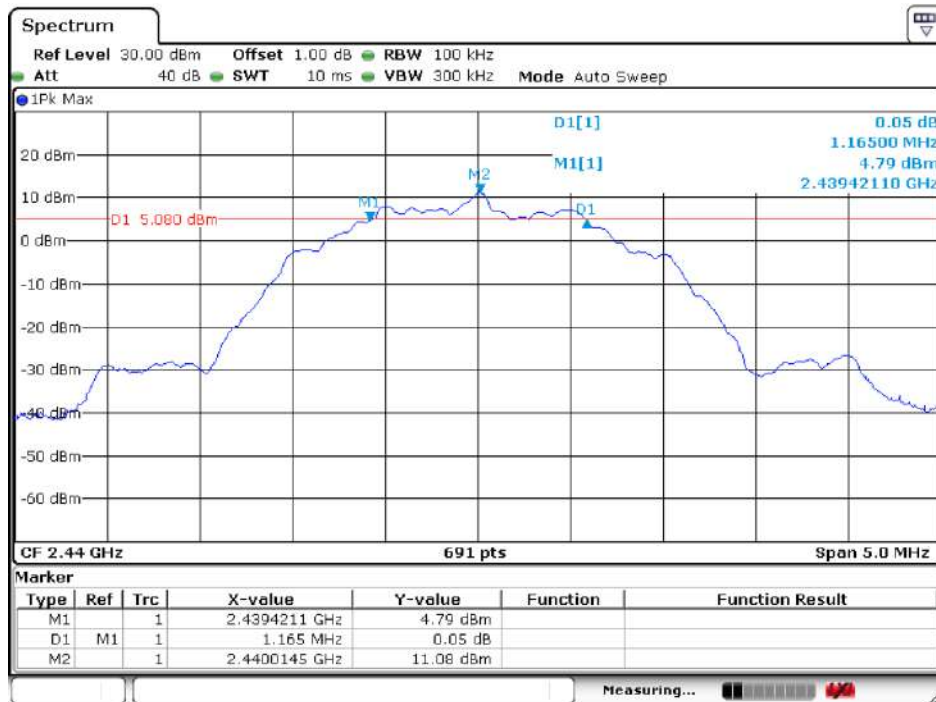
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Date: 8 JAN 2021 09:55:12

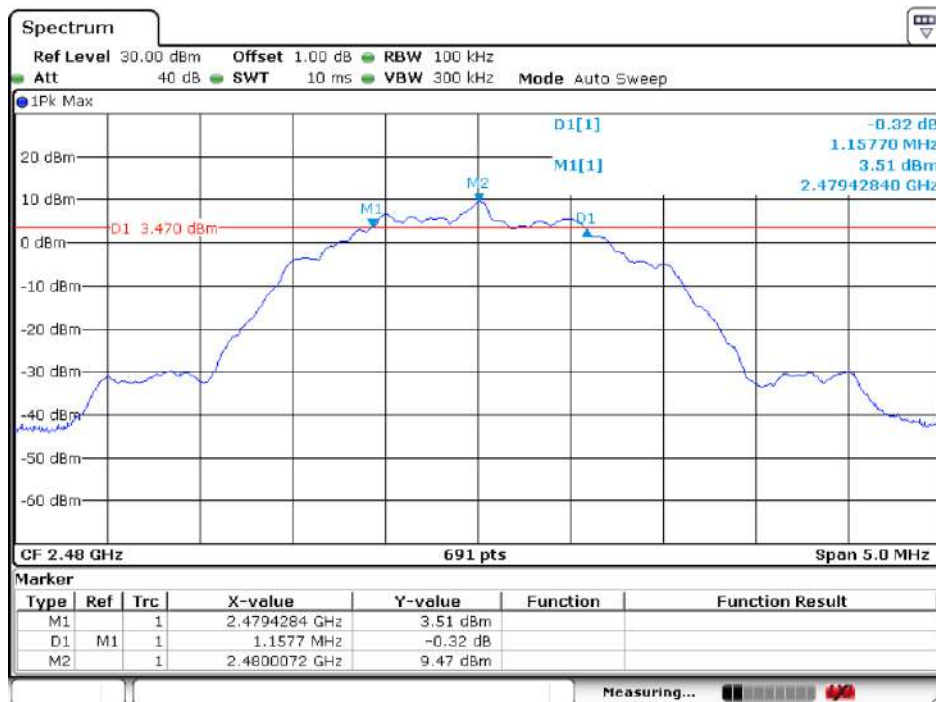


### 4.5.2.5 GFSK 2M\_ANT1\_Middle Channel



Date: 8. JAN. 2021 09:52:27

### 4.5.2.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8. JAN. 2021 09:54:11



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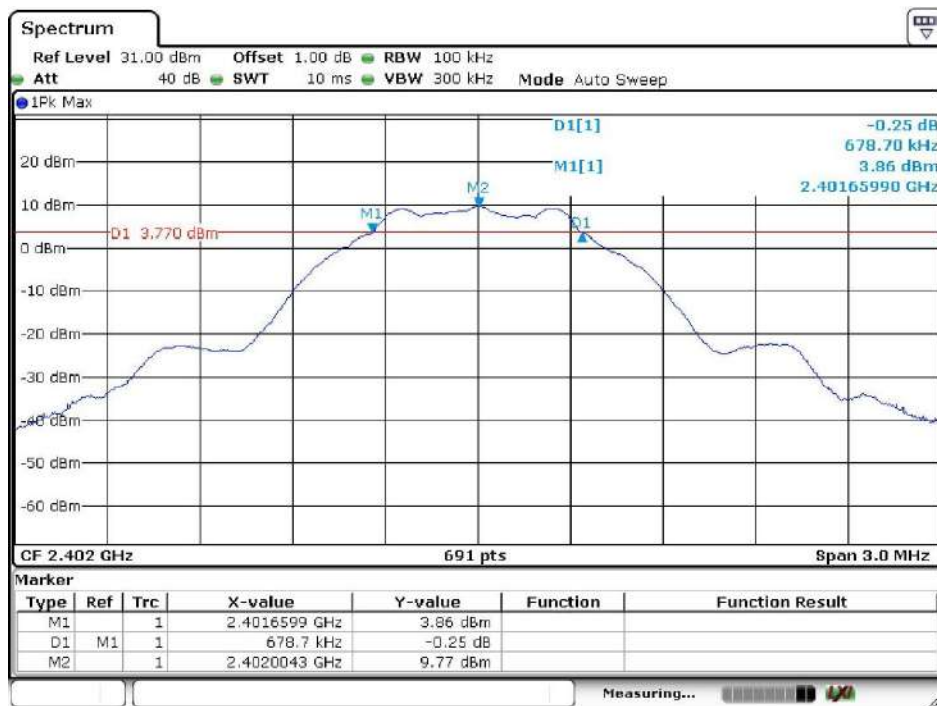
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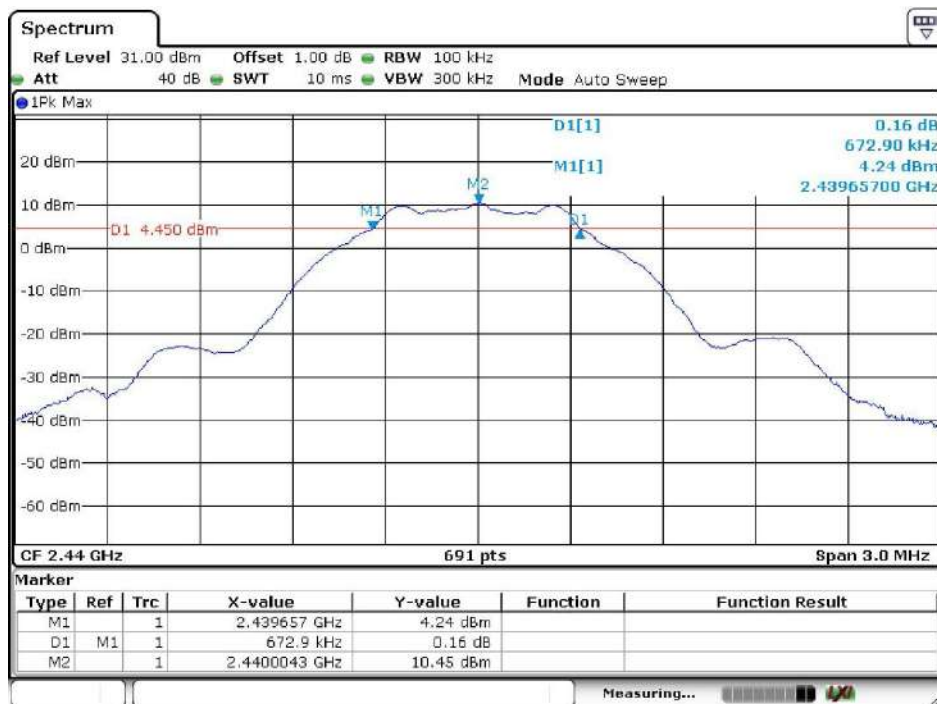
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### 4.5.2.7 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:31:00

### 4.5.2.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:31:43



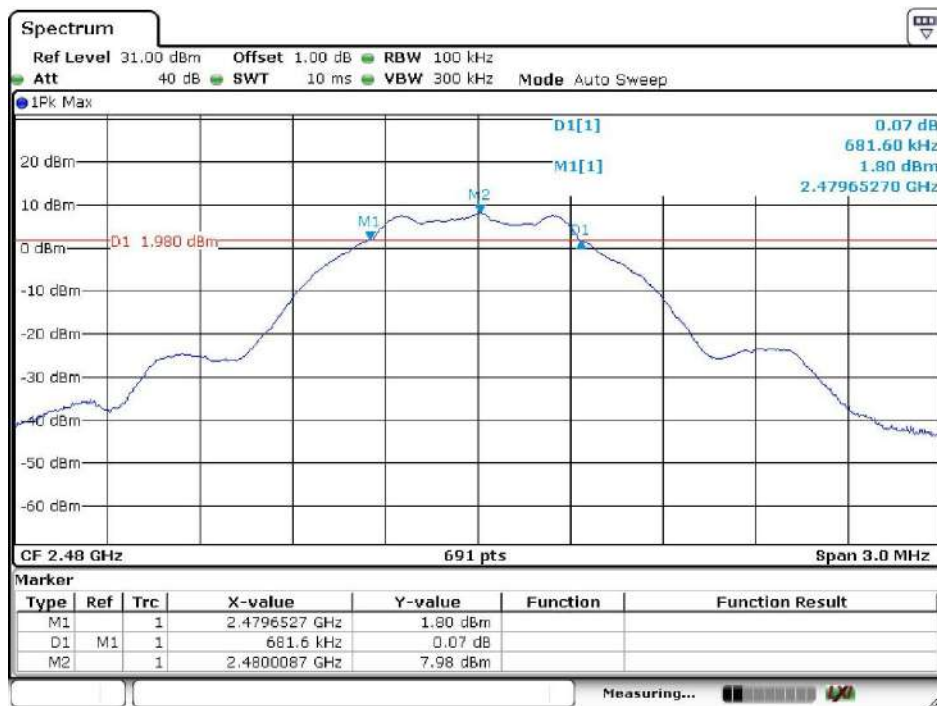
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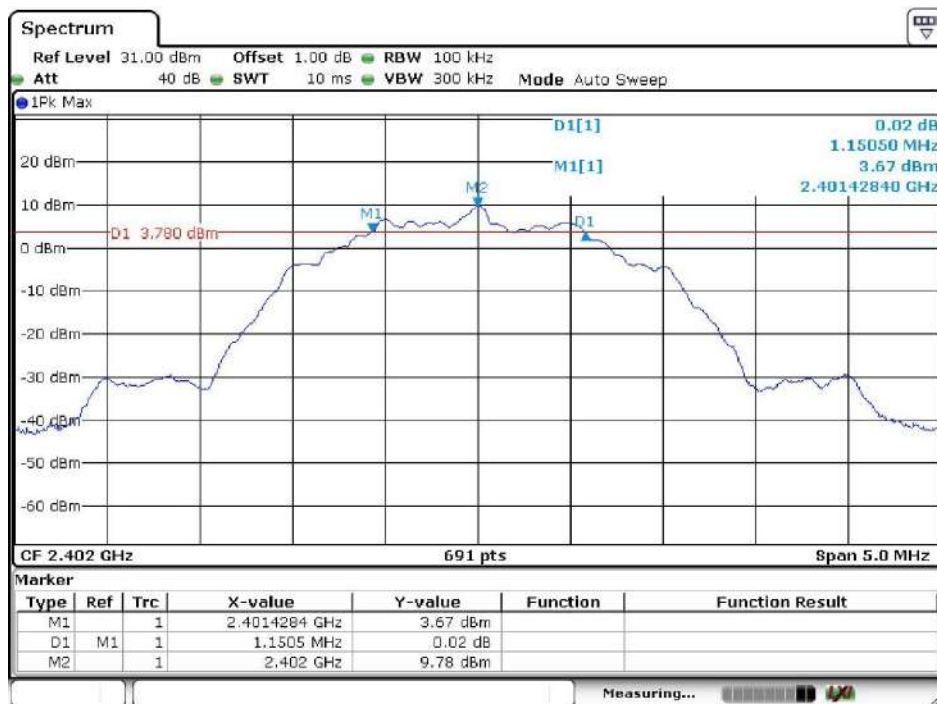
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### 4.5.2.9 GFSK 1M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:32:18

### 4.5.2.10 GFSK 2M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:32:43

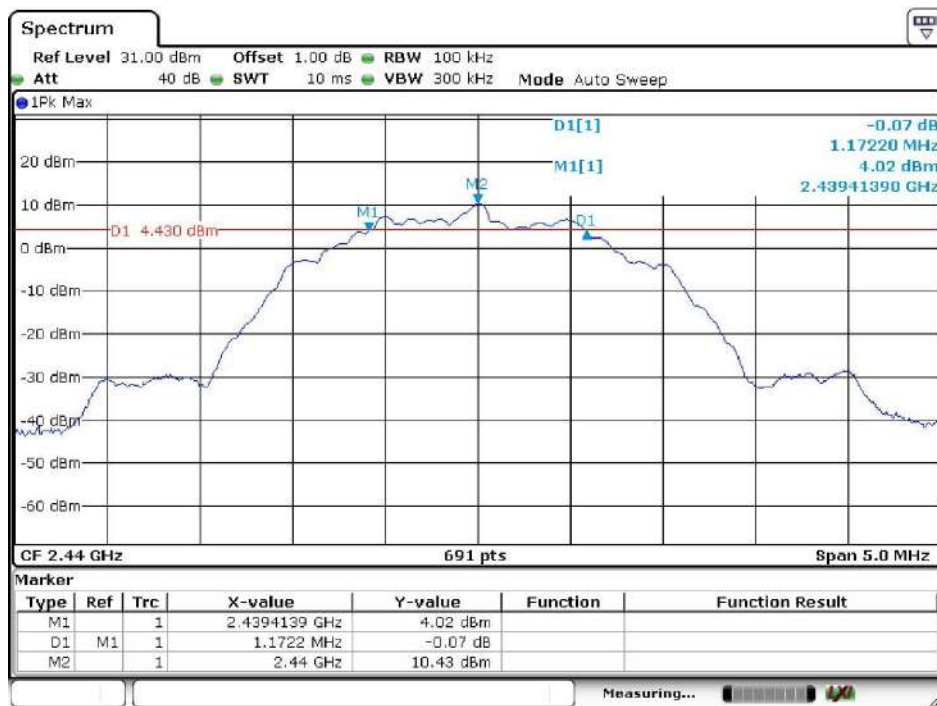


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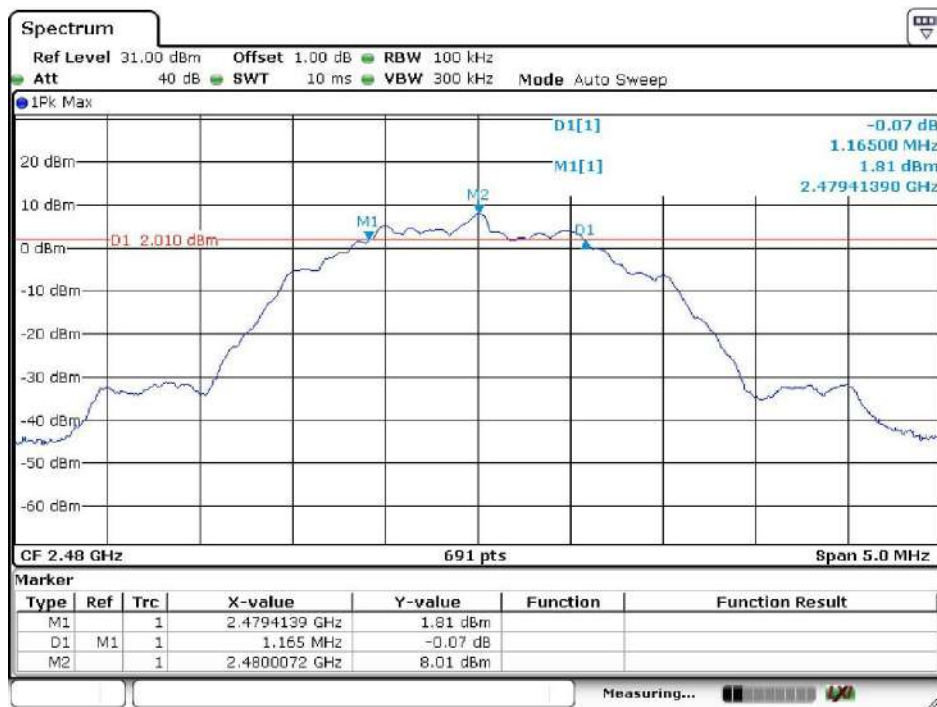
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### 4.5.2.11 GFSK 2M\_ANT2\_Middle Channel



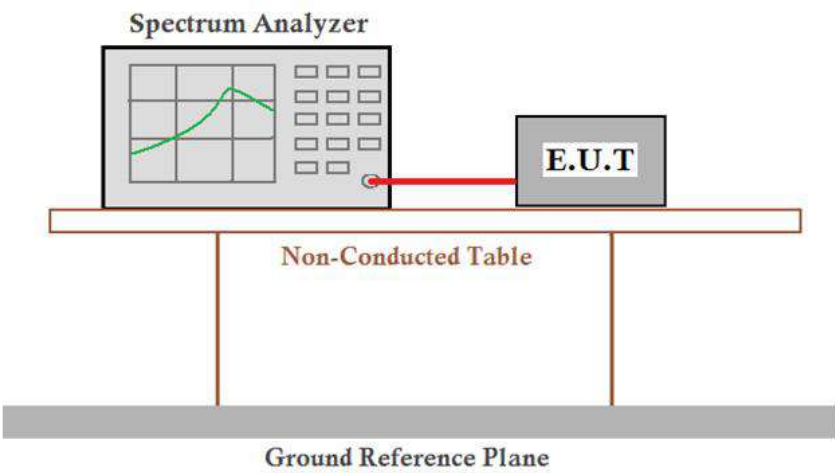
### 4.5.2.12 GFSK 2M\_ANT2\_Highest Channel



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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 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

### 4.6.1 Test Results

#### ANT1:

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-4.47	≤8.00	Pass
	Middle	-3.51	≤8.00	Pass
	Highest	-5.16	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-7.35	≤8.00	Pass
	Middle	-6.40	≤8.00	Pass
	Highest	-8.05	≤8.00	Pass



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**ANT2:**

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-4.70	≤8.00	Pass
	Middle	-4.11	≤8.00	Pass
	Highest	-6.54	≤8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-7.61	≤8.00	Pass
	Middle	-6.99	≤8.00	Pass
	Highest	-9.43	≤8.00	Pass

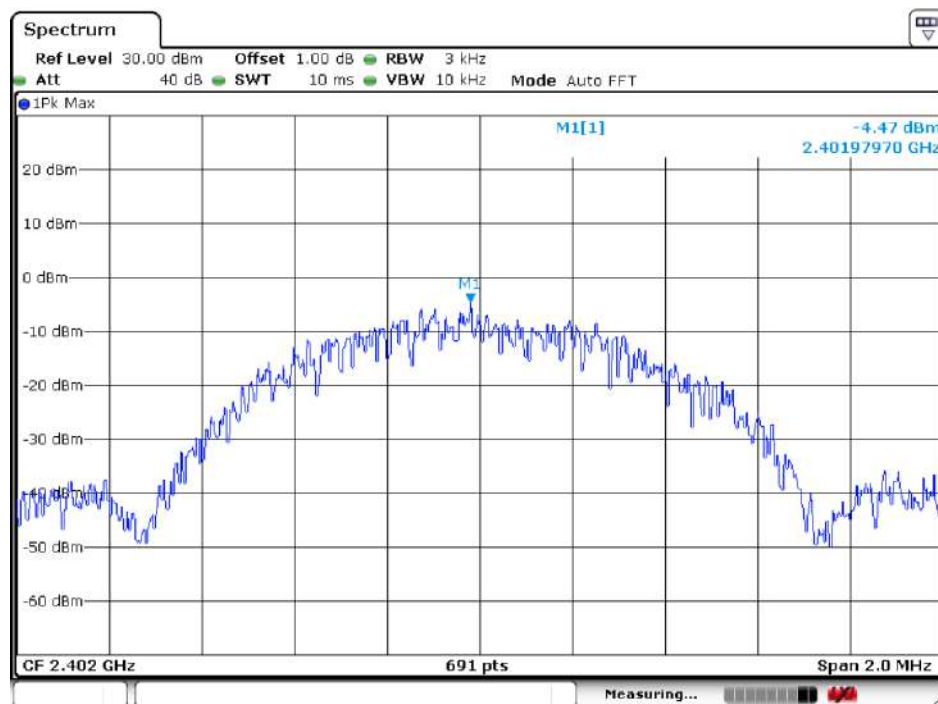


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### 4.6.2 Test Plots

#### 4.6.2.1 GFSK 1M\_ANT1\_Lowest Channel



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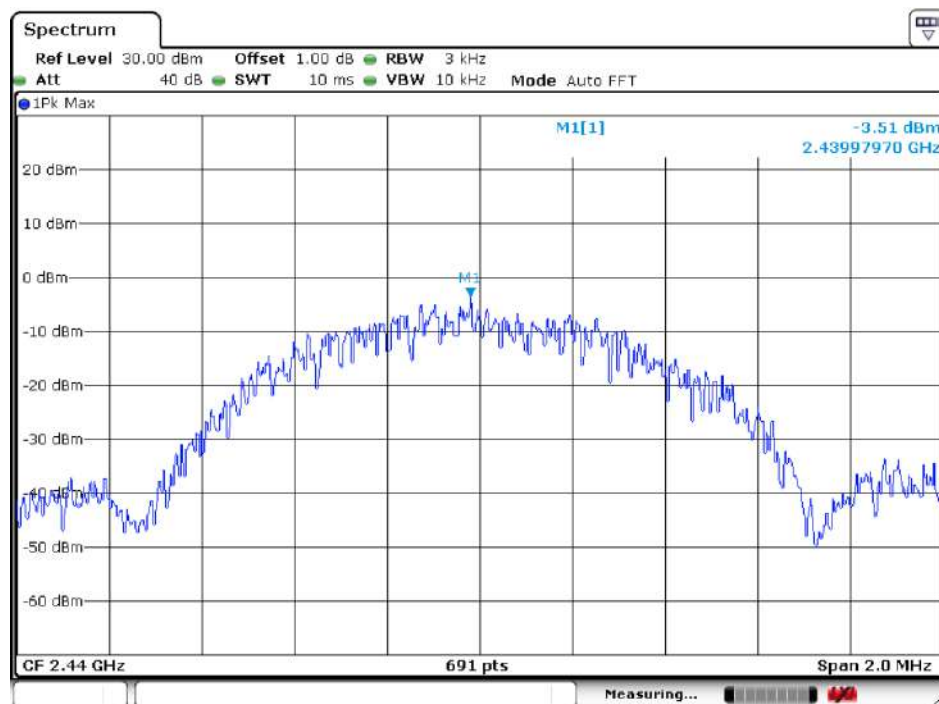
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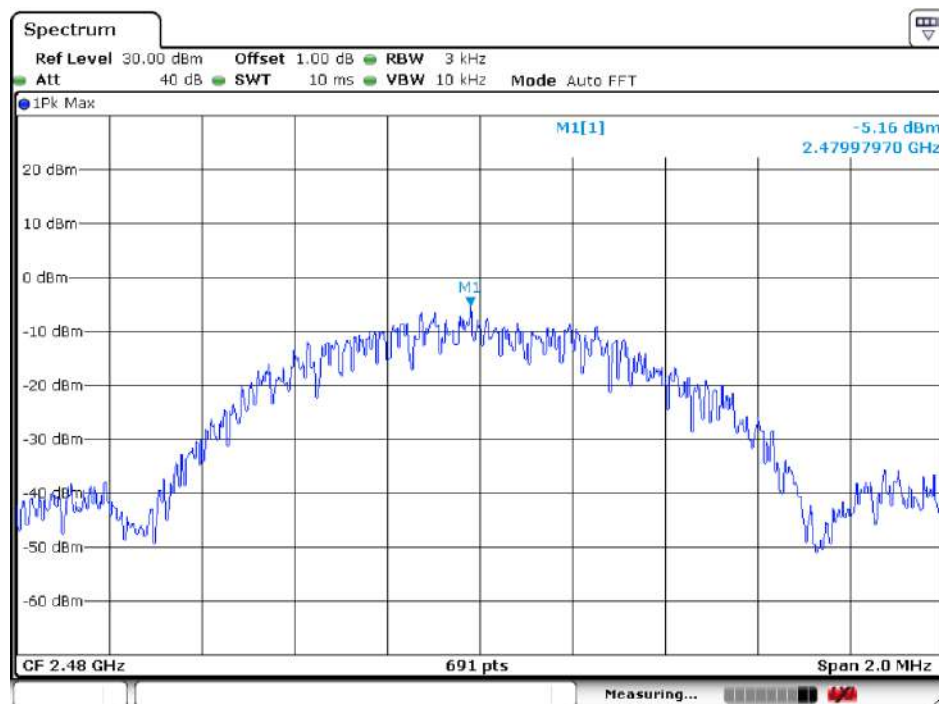
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### 4.6.2.2 GFSK 1M\_ANT1\_Middle Channel



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### 4.6.2.3 GFSK 1M\_ANT1\_Highest Channel



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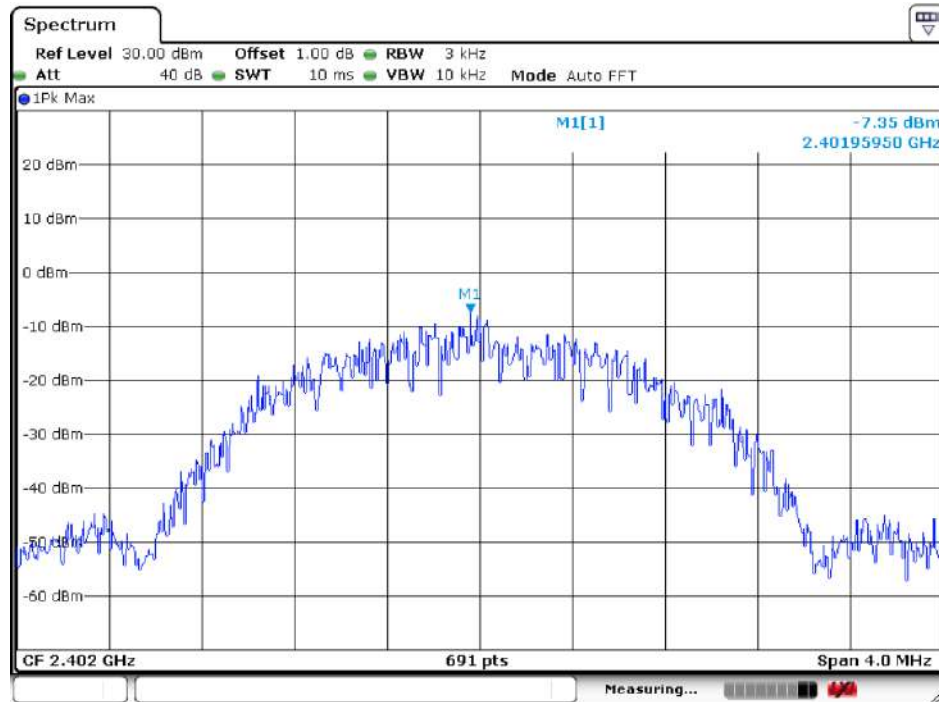
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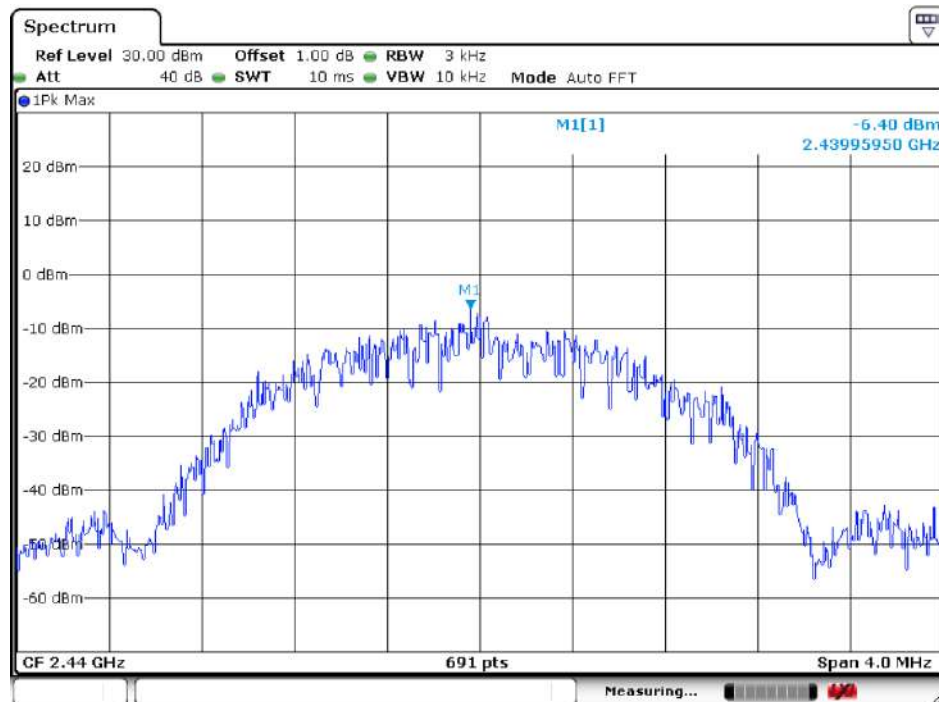
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### 4.6.2.4 GFSK 2M\_ANT1\_Lowest Channel



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### 4.6.2.5 GFSK 2M\_ANT1\_Middle Channel



Date: 8.JAN.2021 09:38:36



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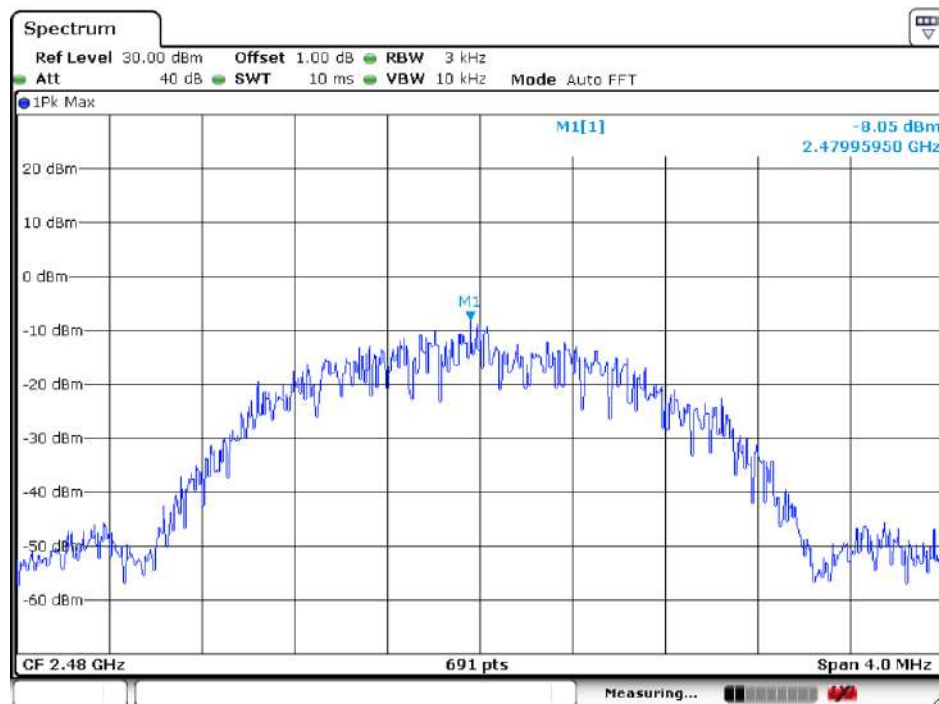
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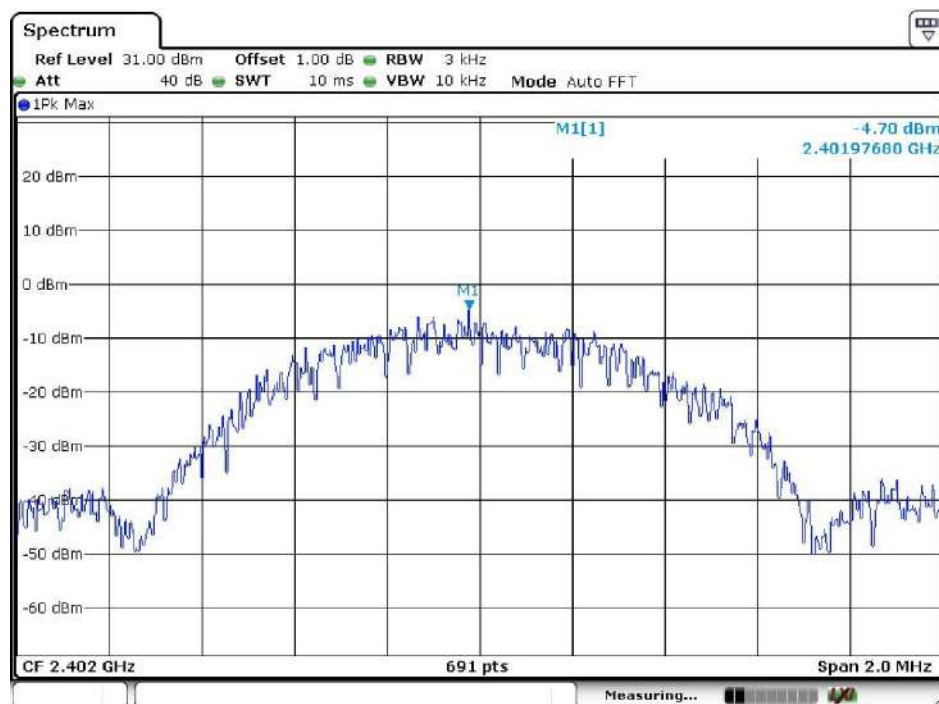


### 4.6.2.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8.JAN.2021 09:38:16

### 4.6.2.7 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:30:20

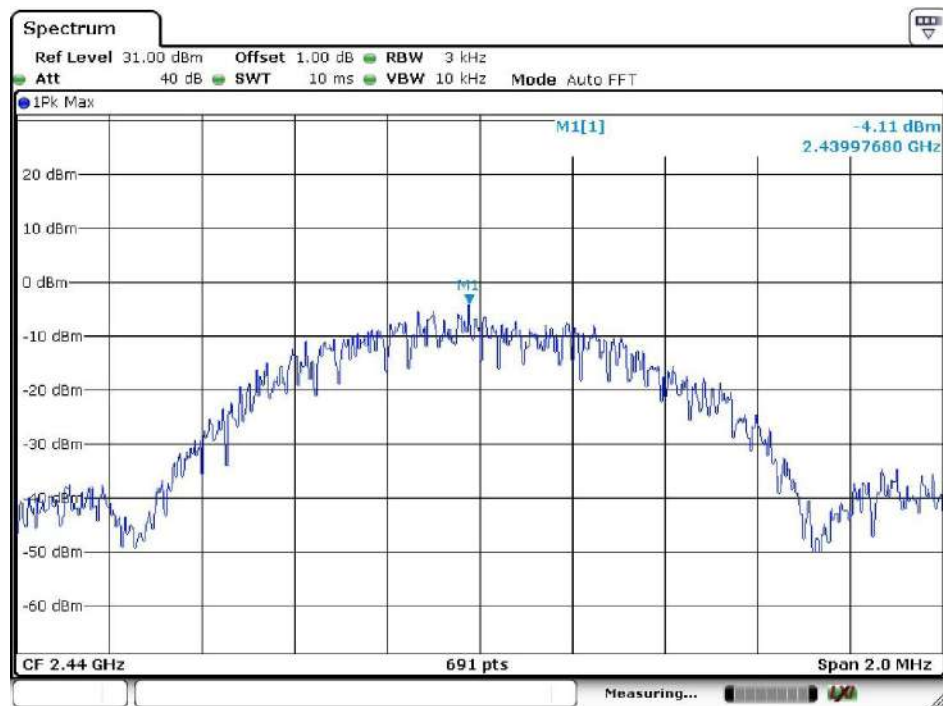


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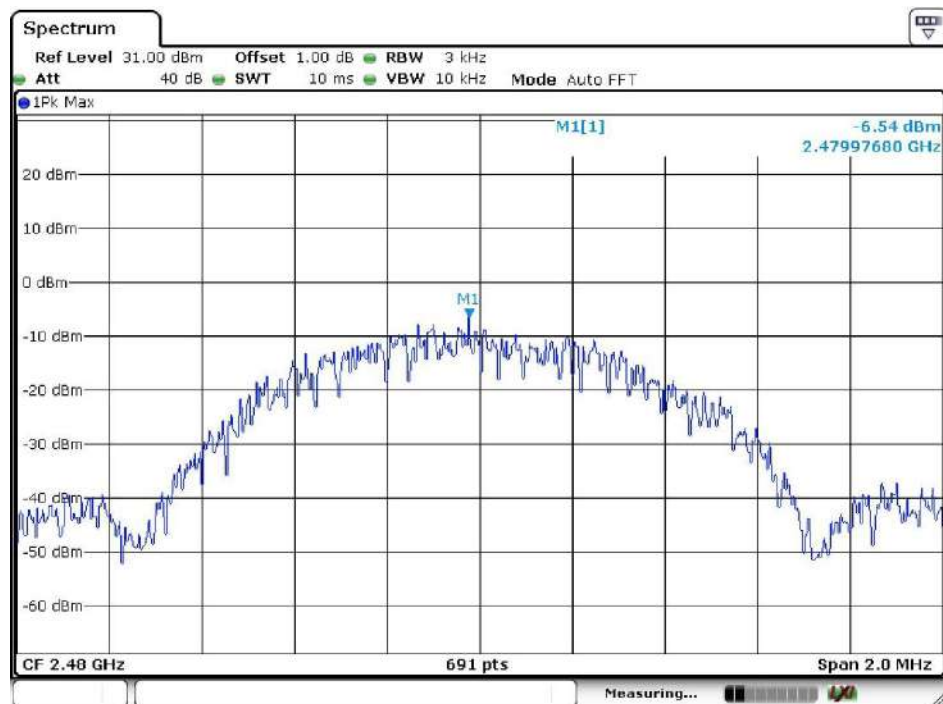


### 4.6.2.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:30:09

### 4.6.2.9 GFSK 1M\_ANT2\_Highest Channel

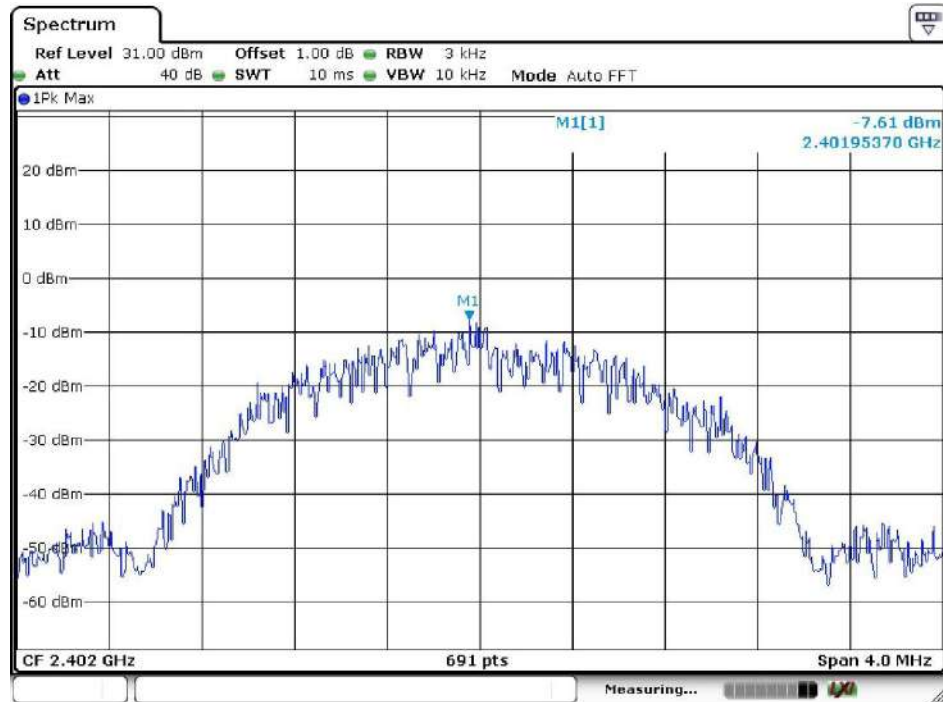


Date: 14.JAN.2021 11:28:56



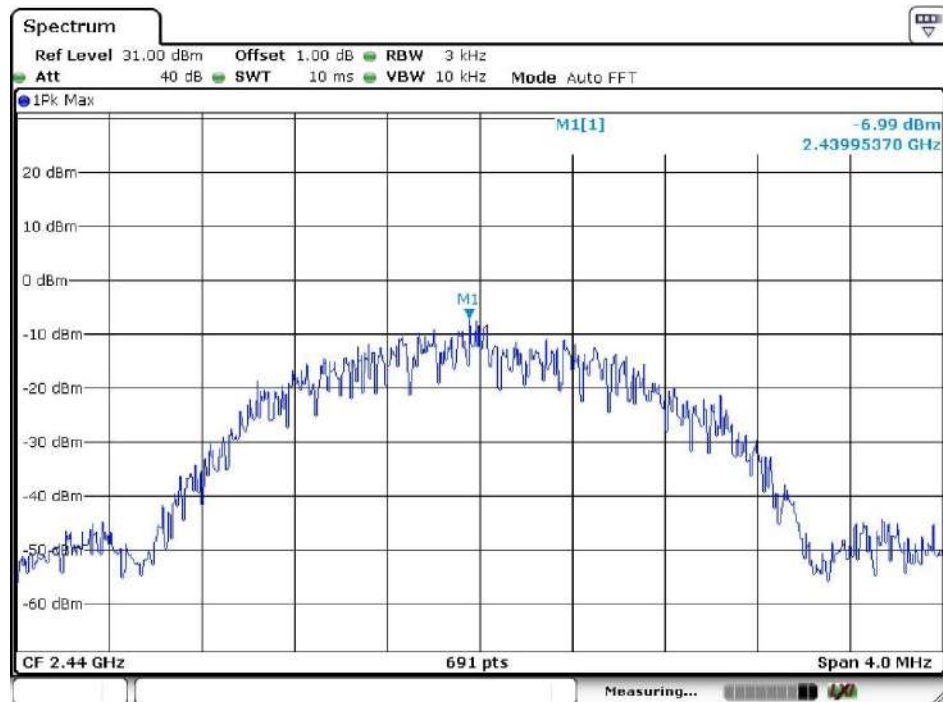
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### 4.6.2.10 GFSK 2M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:28:44

### 4.6.2.11 GFSK 2M\_ANT2\_Middle Channel



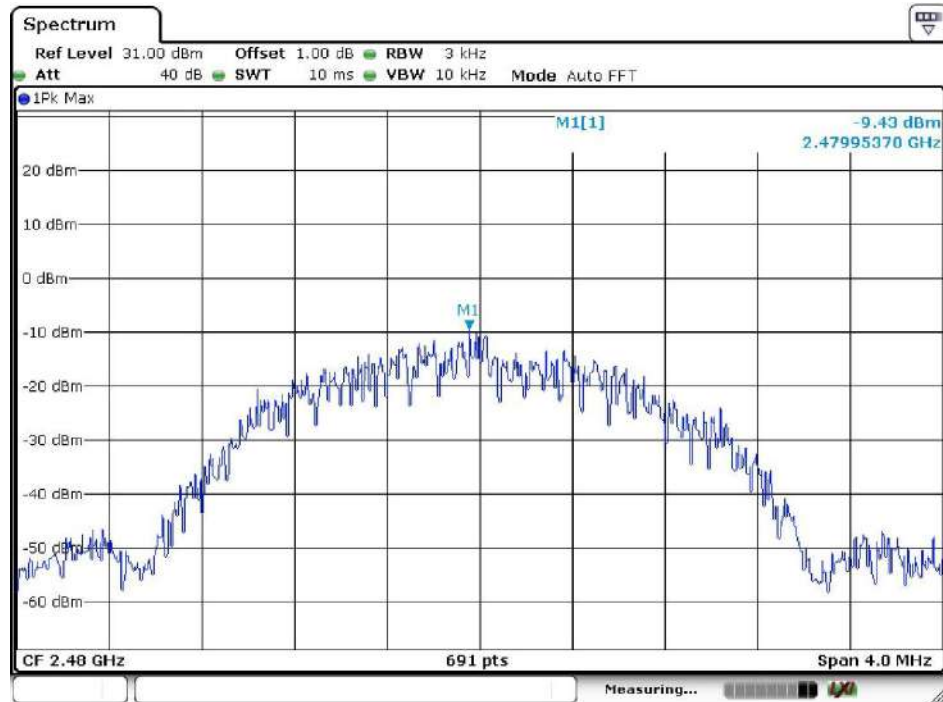
Date: 14.JAN.2021 11:28:27



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## 4.6.2.12 GFSK 2M\_ANT2\_Highest Channel



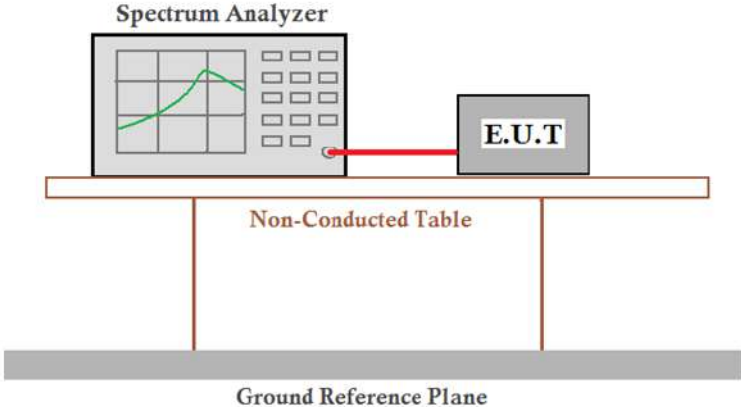
Date: 14 JAN 2021 11:28:13



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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:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane. The Spectrum Analyzer screen shows a green curve representing the spectrum.</p>
Instruments Used:	Refer to section 5.10 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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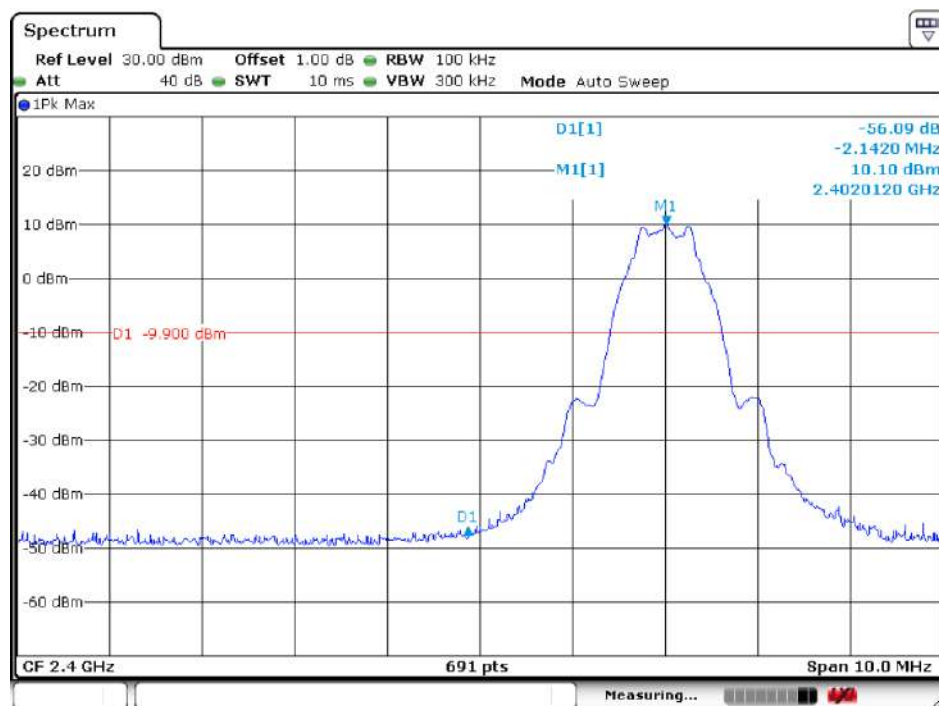
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### 4.7.1 Test Plots

#### 4.7.1.1 GFSK 1M\_ANT1\_Lowest Channel



Date: 8 JAN 2021 09:58:04



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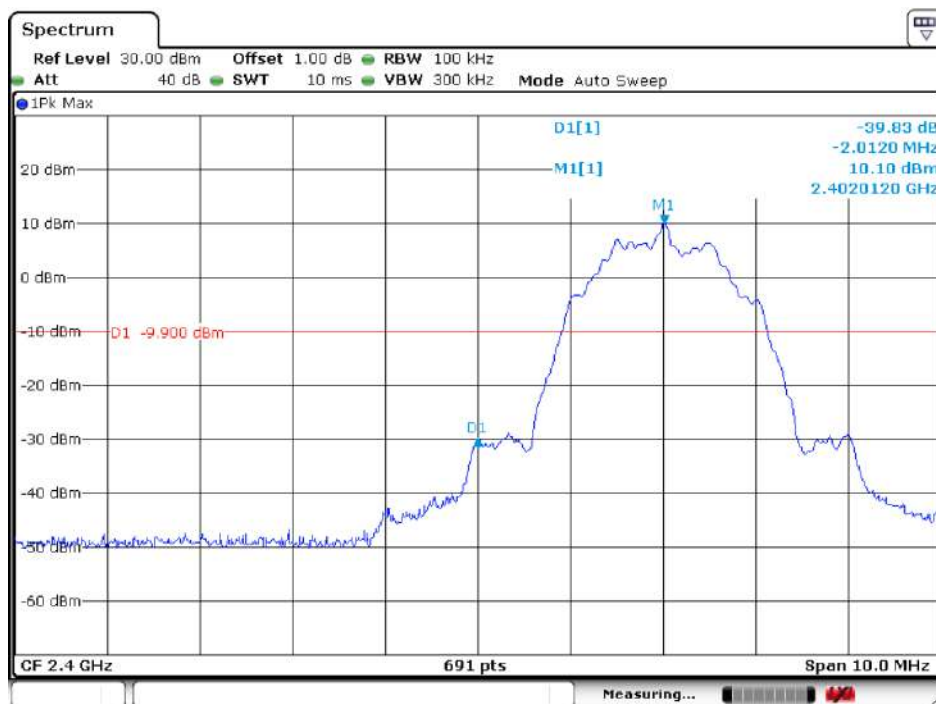


### 4.7.1.2 GFSK 1M\_ANT1\_Highest Channel



Date: 8 JAN 2021 09:57:25

### 4.7.1.3 GFSK 2M\_ANT1\_Lowest Channel



Date: 8 JAN 2021 09:58:24



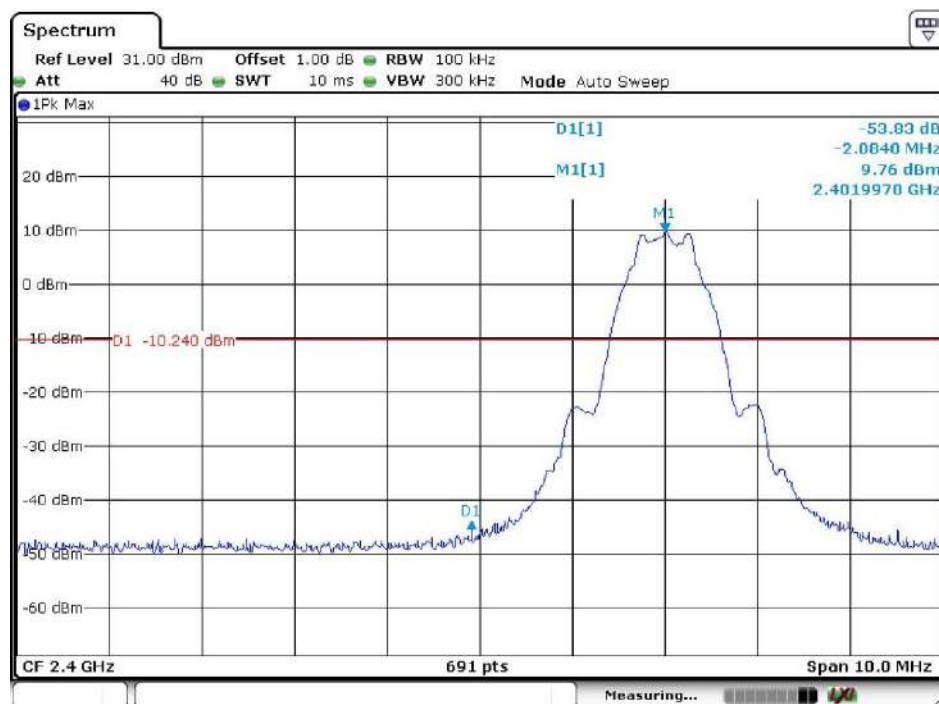
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### 4.7.1.4 GFSK 2M\_ANT1\_Highest Channel



Date: 8.JAN.2021 10:00:29

### 4.7.1.5 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:38:17



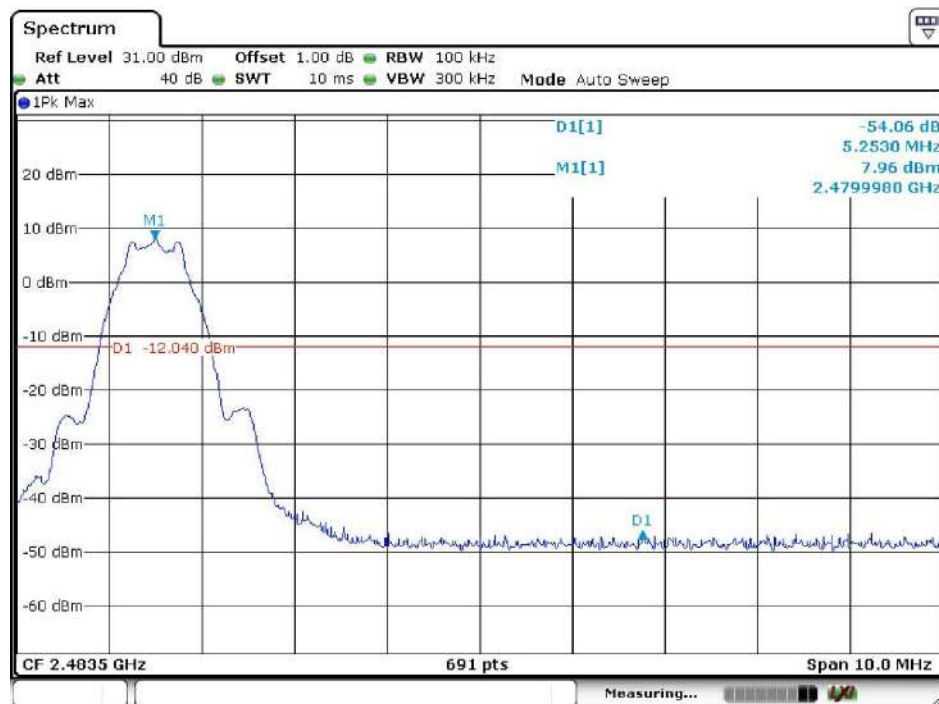
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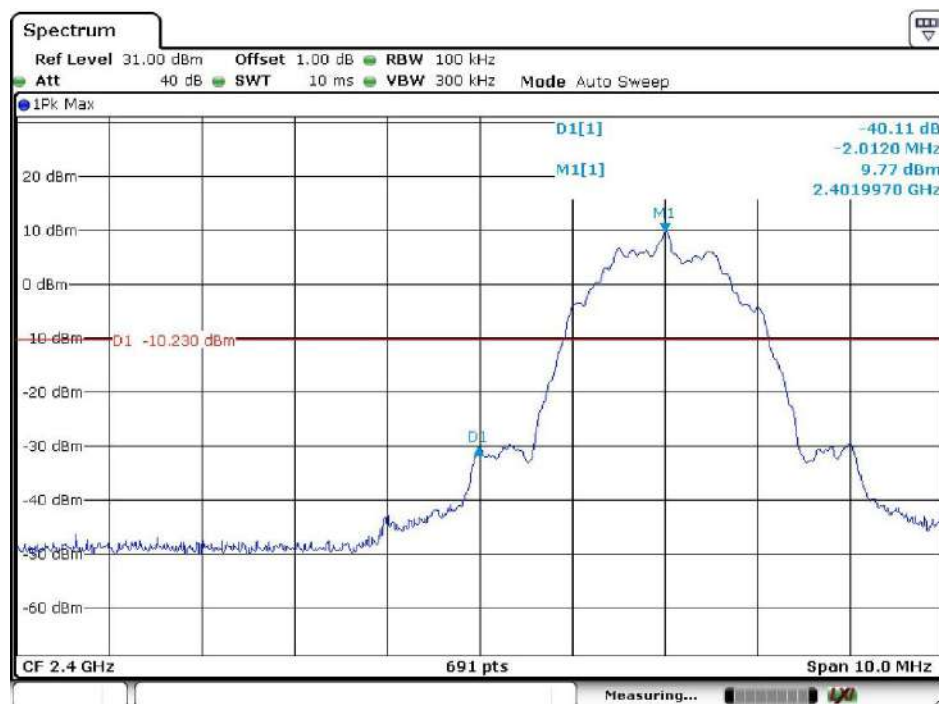
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### 4.7.1.6 GFSK 1M\_ANT2\_Highest Channel



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### 4.7.1.7 GFSK 2M\_ANT2\_Lowest Channel



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### 4.7.1.8 GFSK 2M\_ANT2\_Highest Channel



Date: 14 JAN 2021 11:40:02

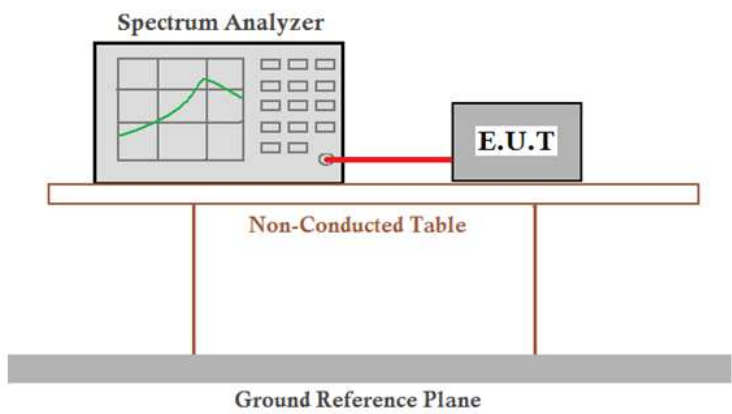


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## 4.8 RF Conducted Spurious Emissions

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 5.10 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

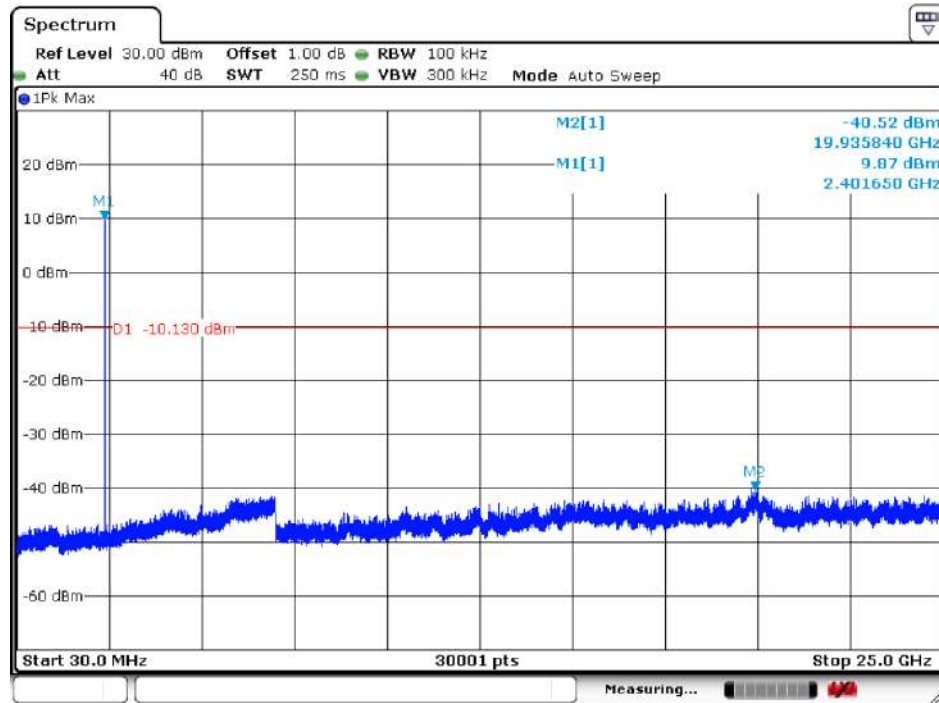


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## 4.8.1 Test Plots

### 4.8.1.1 GFSK 1M\_ANT1\_Lowest Channel



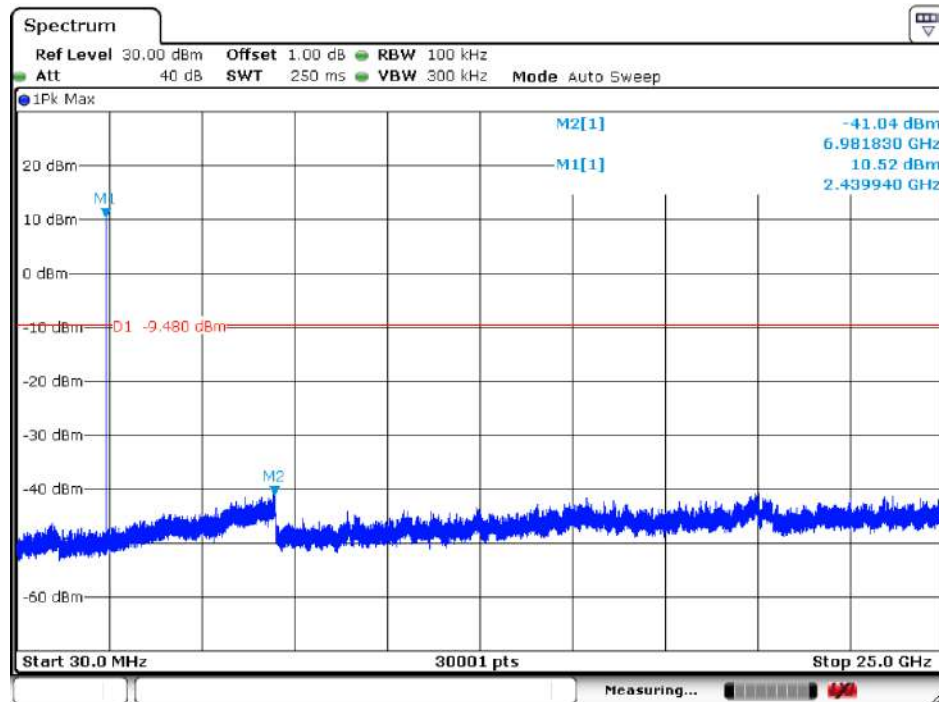
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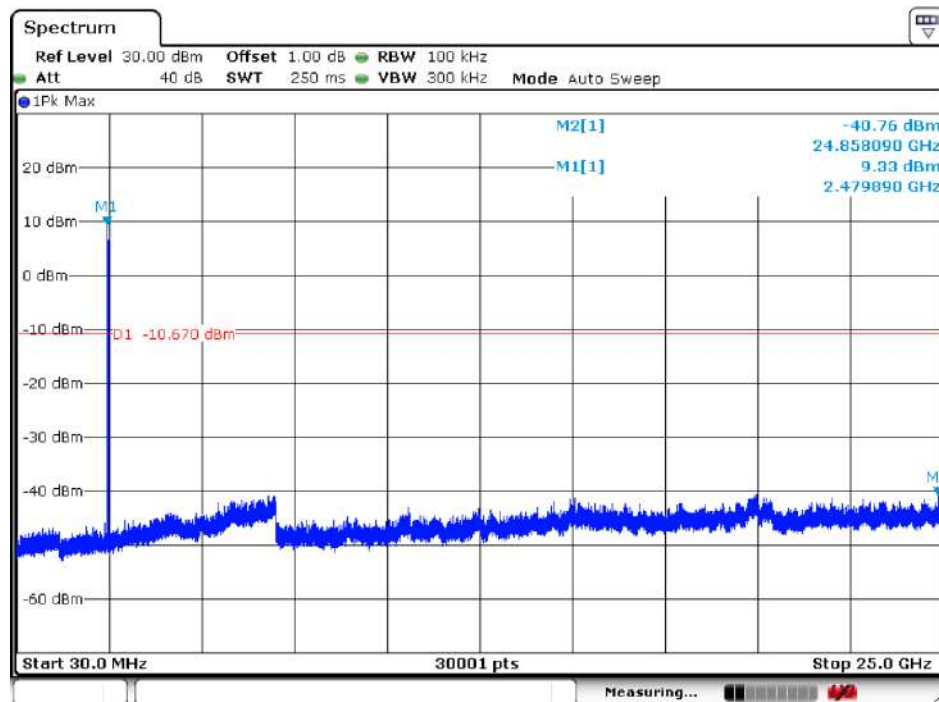
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### 4.8.1.2 GFSK 1M\_ANT1\_Middle Channel



Date: 8. JAN. 2021 10:08:35

### 4.8.1.3 GFSK 1M\_ANT1\_Highest Channel

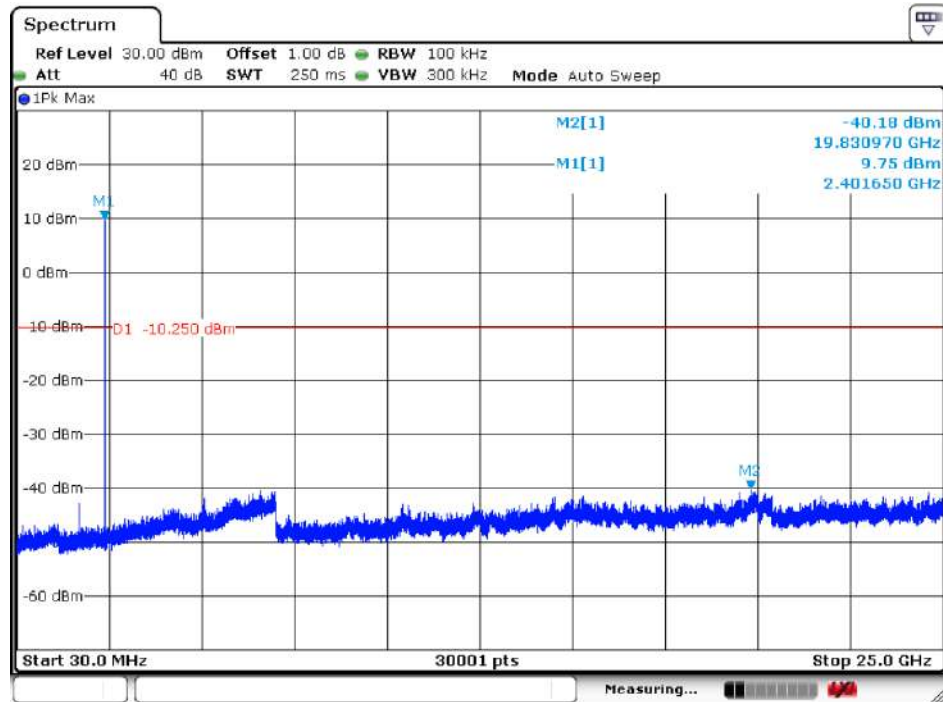


Date: 8. JAN. 2021 10:09:25



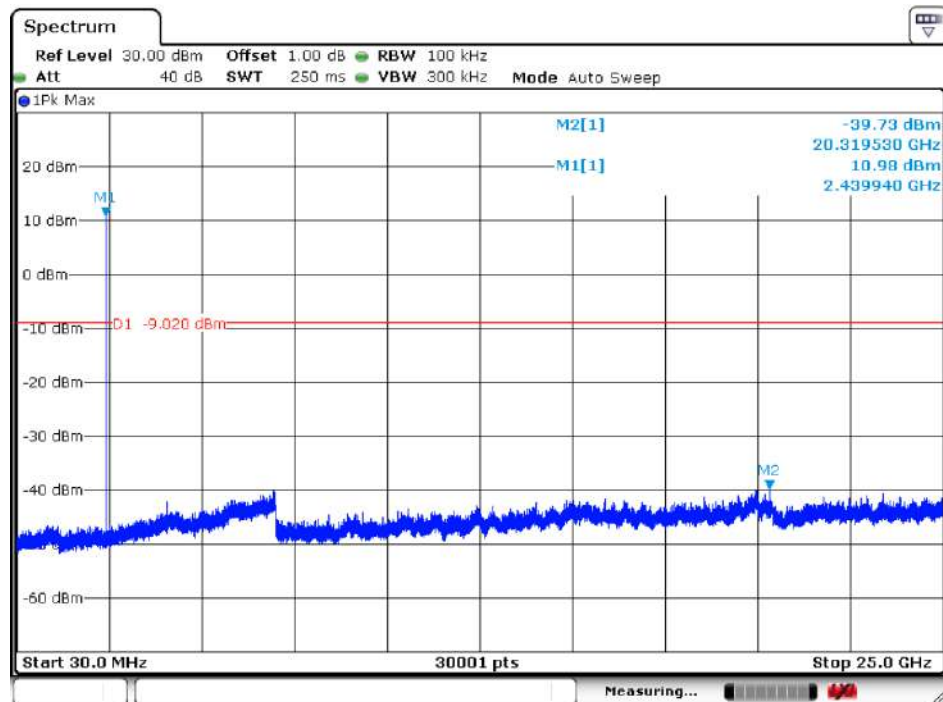
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### 4.8.1.4 GFSK 2M\_ANT1\_Lowest Channel



Date: 8.JAN.2021 10:13:17

### 4.8.1.5 GFSK 2M\_ANT1\_Middle Channel



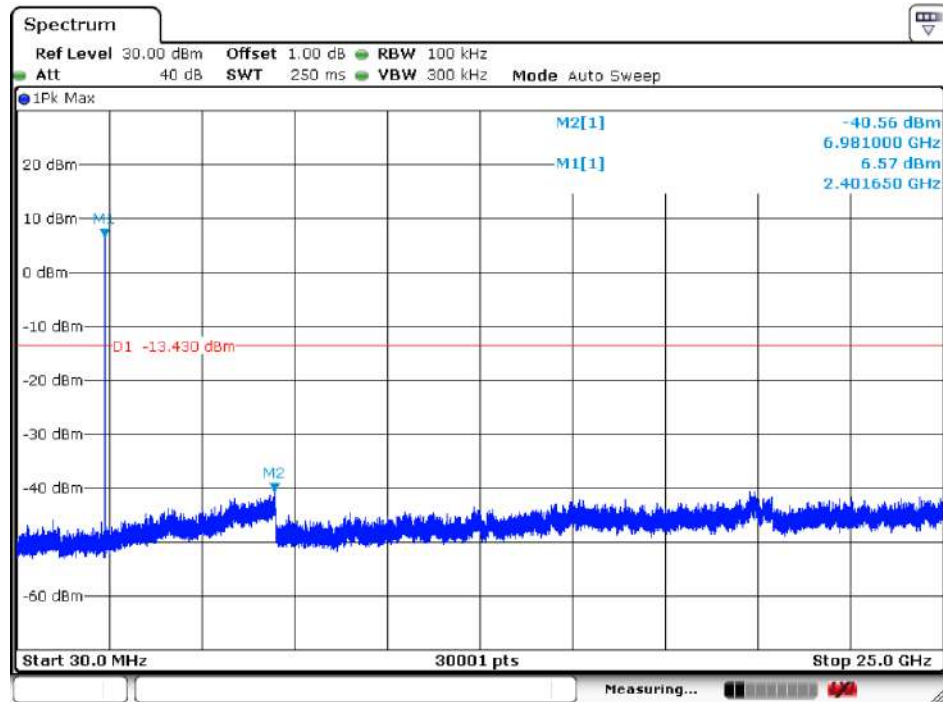
Date: 8.JAN.2021 10:12:00



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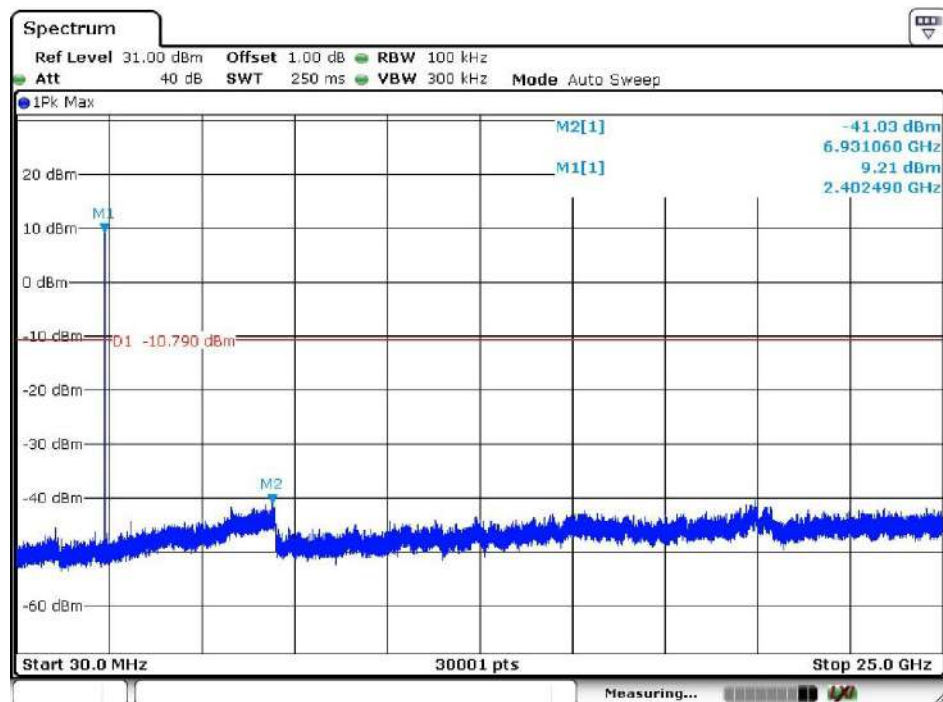


### 4.8.1.6 GFSK 2M\_ANT1\_Highest Channel



Date: 8.JAN.2021 10:09:58

### 4.8.1.7 GFSK 1M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:42:22

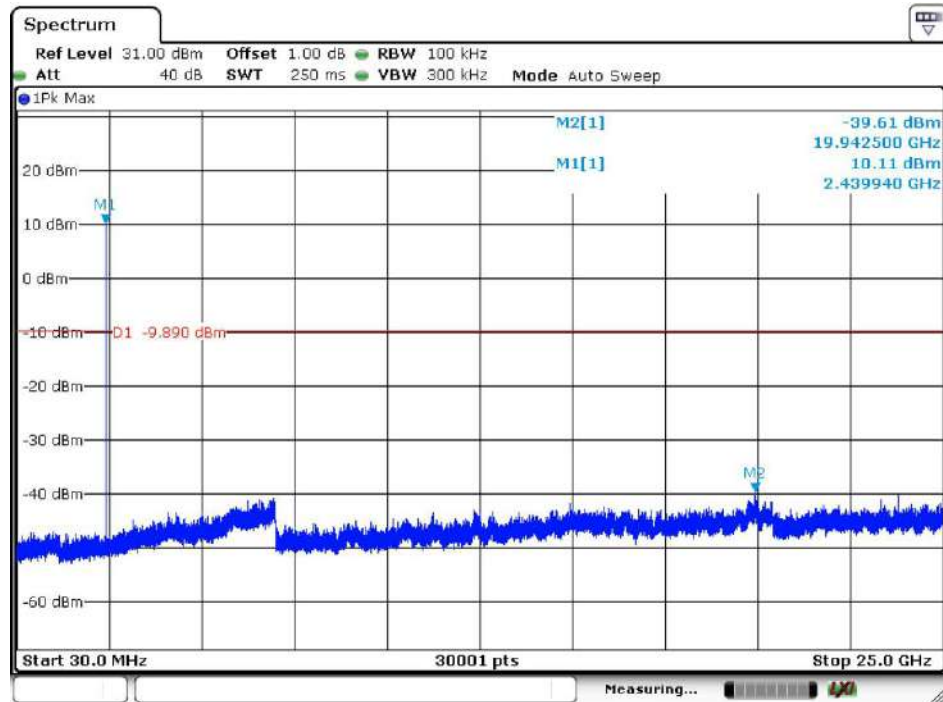


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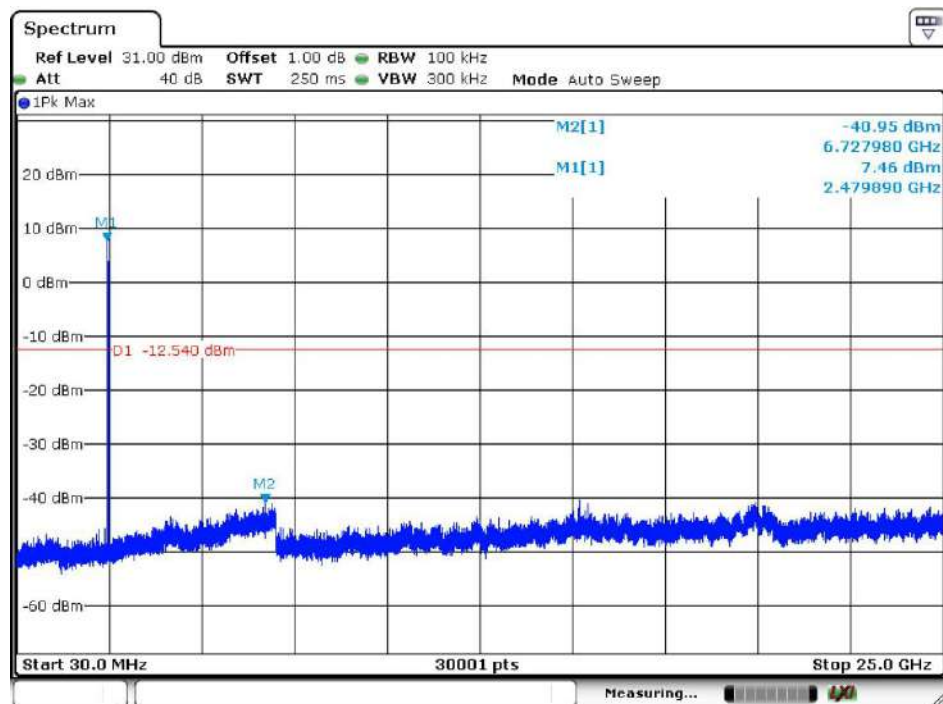
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### 4.8.1.8 GFSK 1M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:43:09

### 4.8.1.9 GFSK 1M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:43:36



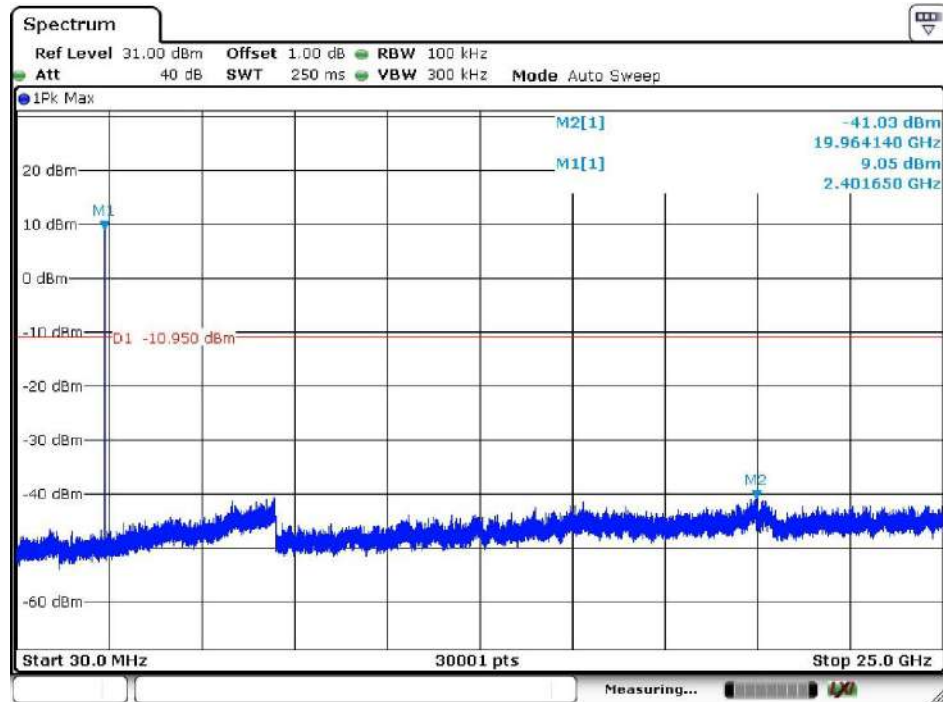
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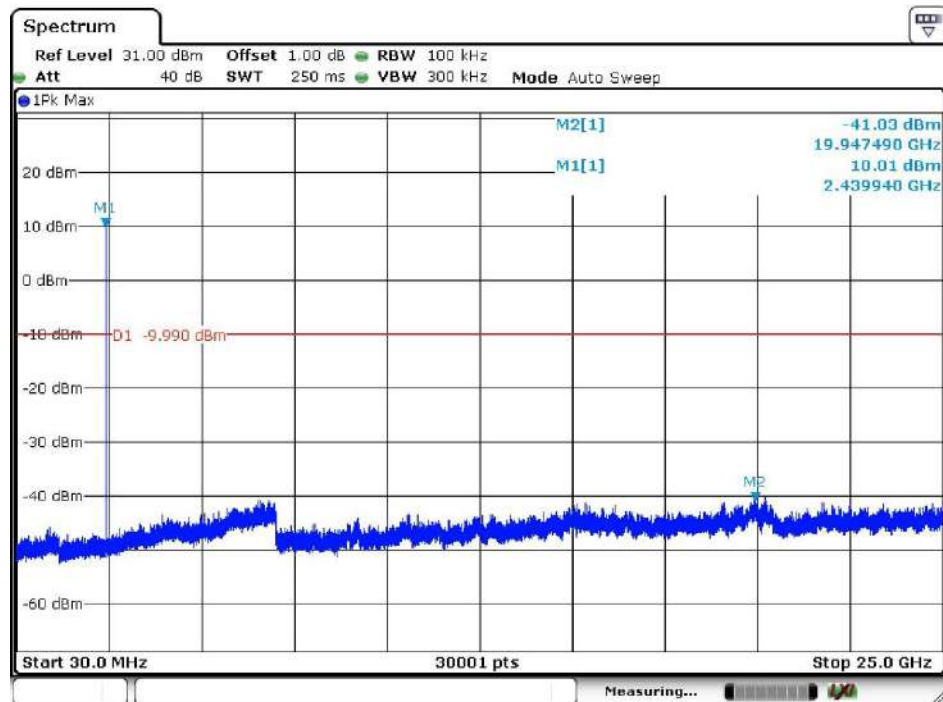
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### 4.8.1.10 GFSK 2M\_ANT2\_Lowest Channel



Date: 14.JAN.2021 11:44:36

### 4.8.1.11 GFSK 2M\_ANT2\_Middle Channel



Date: 14.JAN.2021 11:45:33



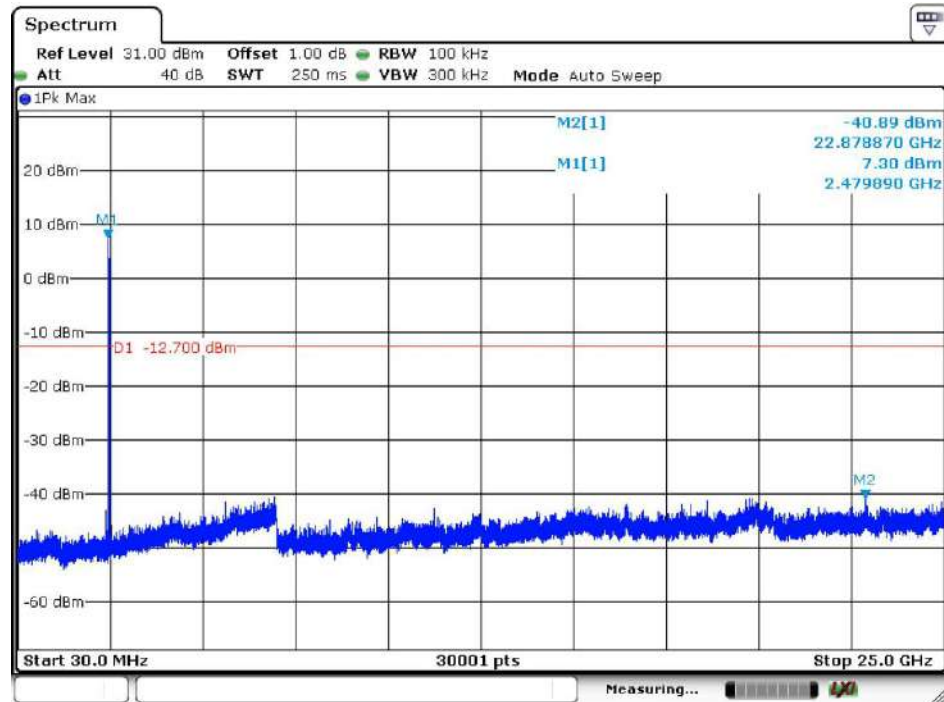
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#### 4.8.1.12 GFSK 2M\_ANT2\_Highest Channel



Date: 14.JAN.2021 11:44:05

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)				
Receiver Setup:	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
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100kHz	30kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
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:

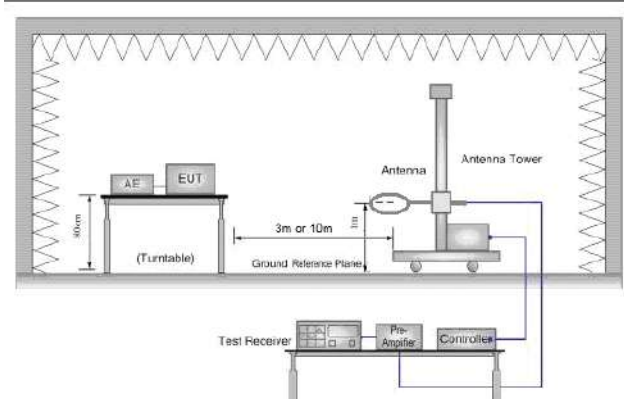


Figure 1. Below 30MHz

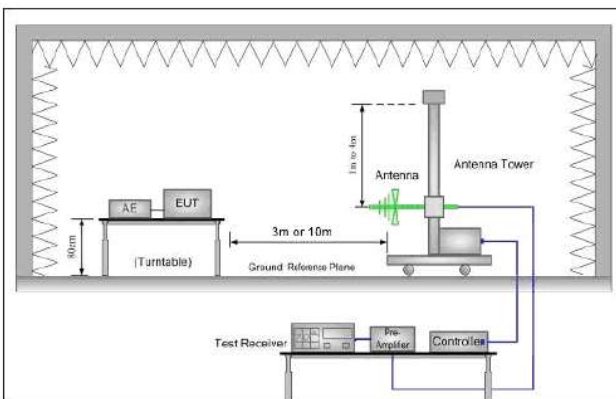


Figure 2. 30MHz to 1GHz

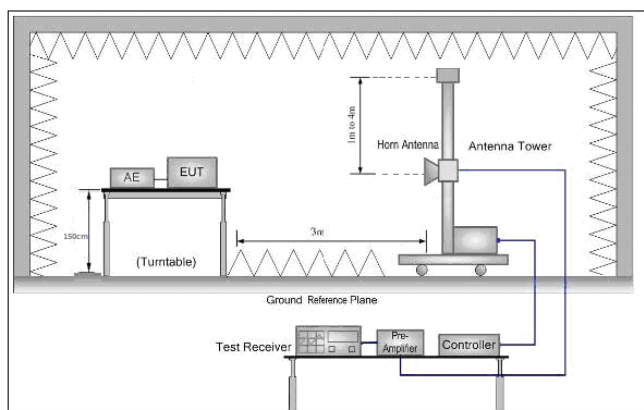


Figure 3. Above 1 GHz

### 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.
- Use the following spectrum analyzer settings:
  - Span shall wide enough to fully capture the emission being measured;
  - Set RBW=100 kHz for  $f < 1$  GHz, RBW=1MHz for  $f > 1$ GHz ;  
VBW  $\geq$  RBW; Sweep = auto;  
Detector function = peak; Trace = max hold for peak
  - For average measurement: use duty cycle correction factor method per 15.35(c).



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	<p>Duty cycle = On time/100 milliseconds</p> <p>On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math></p> <p>Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.</p> <p>Average Emission Level = Peak Emission Level + <math>20 * \log(\text{Duty cycle})</math></p> <p>f. 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.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. 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.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>j. 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.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



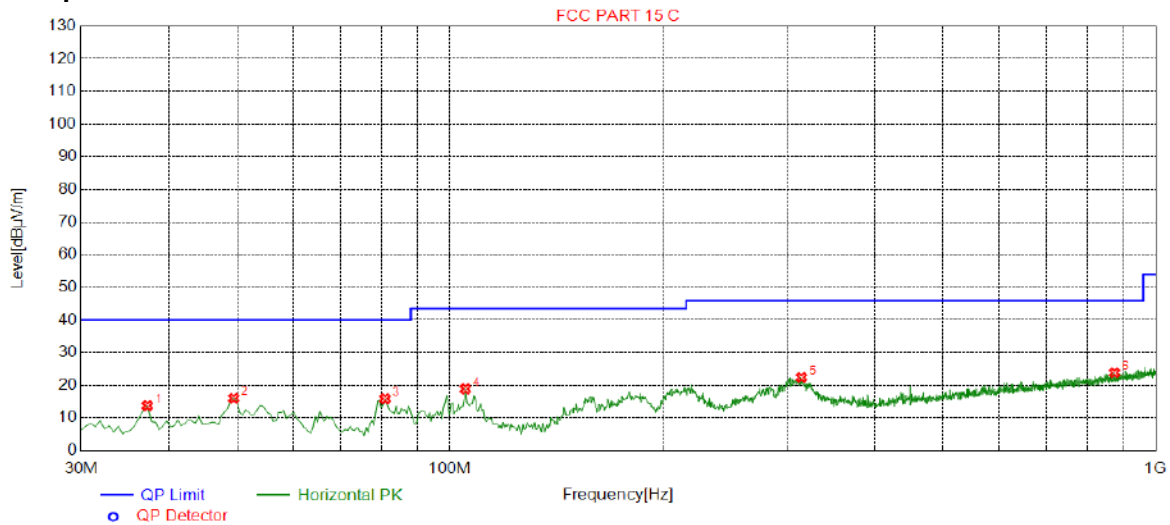
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### 4.9.1 Radiated Emission below 1GHz

#### 4.9.1.1 Charge + Transmitting

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	13.76	40.00	26.24	245	260	Horizontal
2	49.4097	16.06	40.00	23.94	139	257	Horizontal
3	80.9505	15.91	40.00	24.09	122	260	Horizontal
4	105.2126	18.92	43.50	24.58	226	96	Horizontal
5	314.8374	22.42	46.00	23.58	247	167	Horizontal
6	874.3222	23.86	46.00	22.14	169	96	Horizontal

#### Final Data List



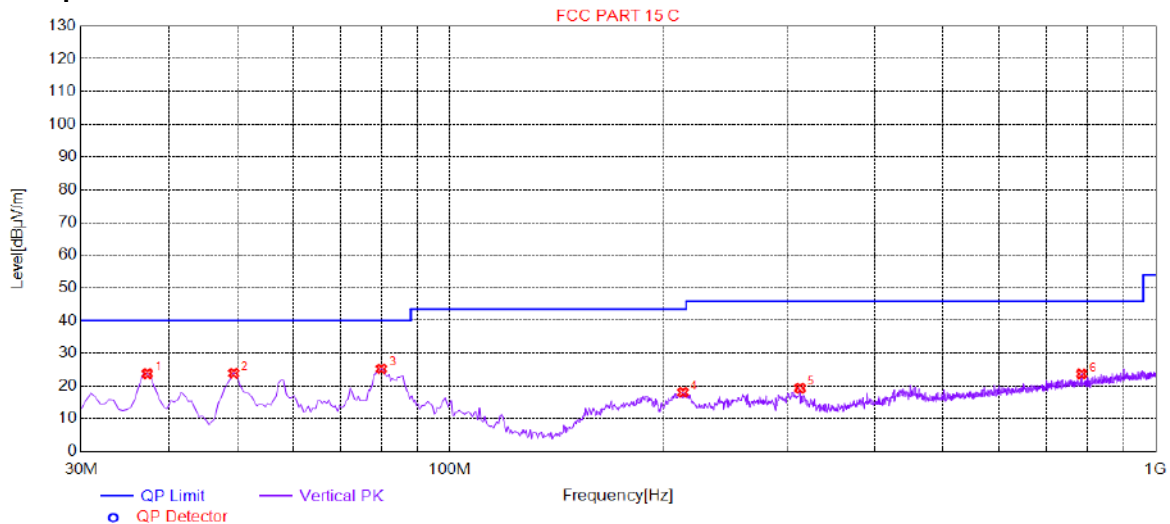
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### Test Graph



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	23.80	40.00	16.20	167	236	Vertical
2	49.4097	23.94	40.00	16.06	264	329	Vertical
3	79.9800	25.29	40.00	14.71	261	239	Vertical
4	213.9070	18.09	43.50	25.41	183	304	Vertical
5	313.3817	19.36	46.00	26.64	225	326	Vertical
6	785.0375	23.72	46.00	22.28	185	155	Vertical

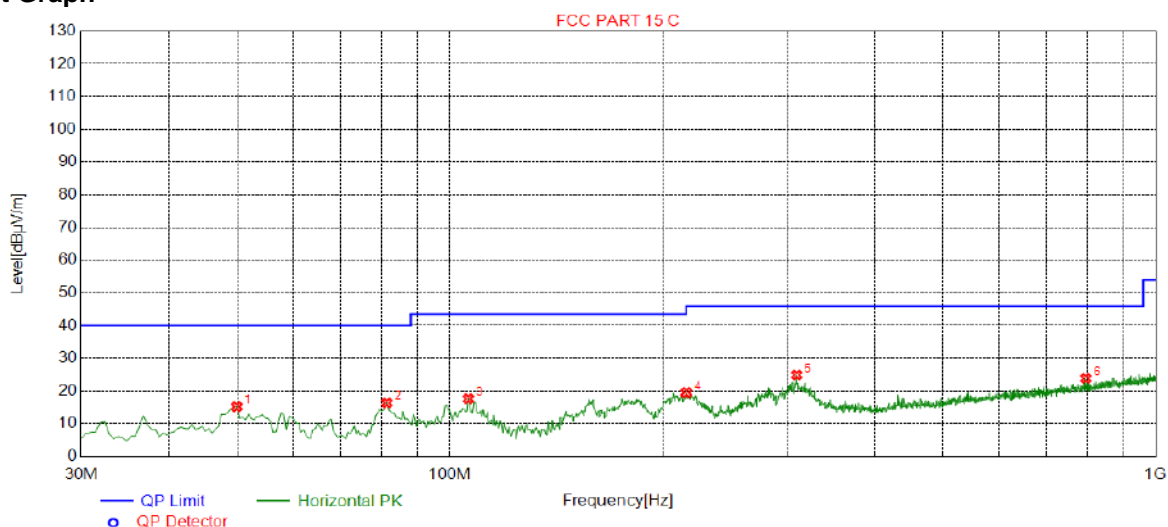
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### Test Graph



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.8949	15.24	40.00	24.76	133	250	Horizontal
2	81.4357	16.40	40.00	23.60	212	244	Horizontal
3	106.1831	17.66	43.50	25.84	135	250	Horizontal
4	216.3332	19.52	46.00	26.48	223	210	Horizontal
5	309.9850	24.92	46.00	21.08	233	338	Horizontal
6	796.1981	23.88	46.00	22.12	107	7	Horizontal

### Final Data List

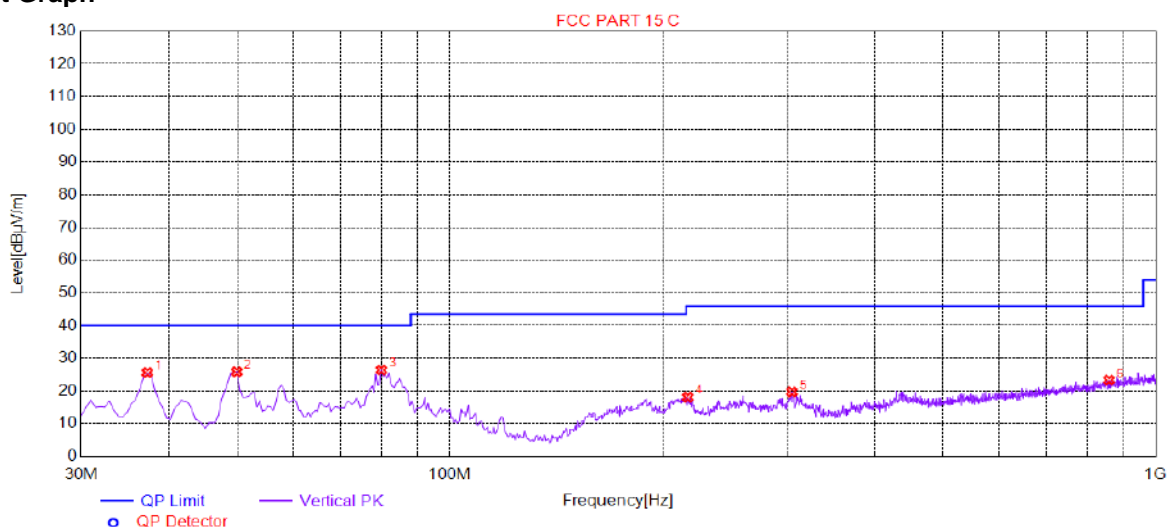


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### Test Graph



### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.2786	25.66	40.00	14.34	297	338	Vertical
2	49.8949	25.91	40.00	14.09	233	360	Vertical
3	79.9800	26.47	40.00	13.53	259	226	Vertical
4	217.3037	18.12	46.00	27.88	205	37	Vertical
5	305.1326	19.74	46.00	26.26	271	359	Vertical
6	858.7944	23.36	46.00	22.64	231	121	Vertical

### Final Data List



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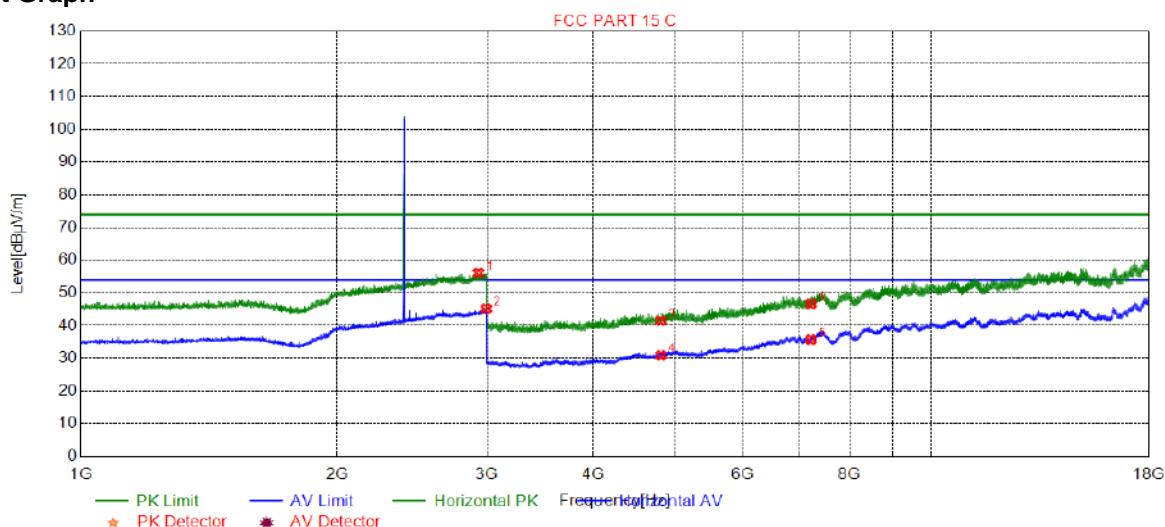
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### 4.9.2 Transmitter Emission above 1GHz

#### 4.9.2.1 BLE\_1M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.983	56.08	74.00	17.92	242	0	Horizontal
2	2993.998	45.23	54.00	8.77	170	74	Horizontal
3	4804.000	41.53	74.00	32.47	187	329	Horizontal
4	4804.000	30.93	54.00	23.07	227	312	Horizontal
5	7206.000	35.75	54.00	18.25	142	105	Horizontal
6	7206.000	46.68	74.00	27.32	217	19	Horizontal

#### Final Data List



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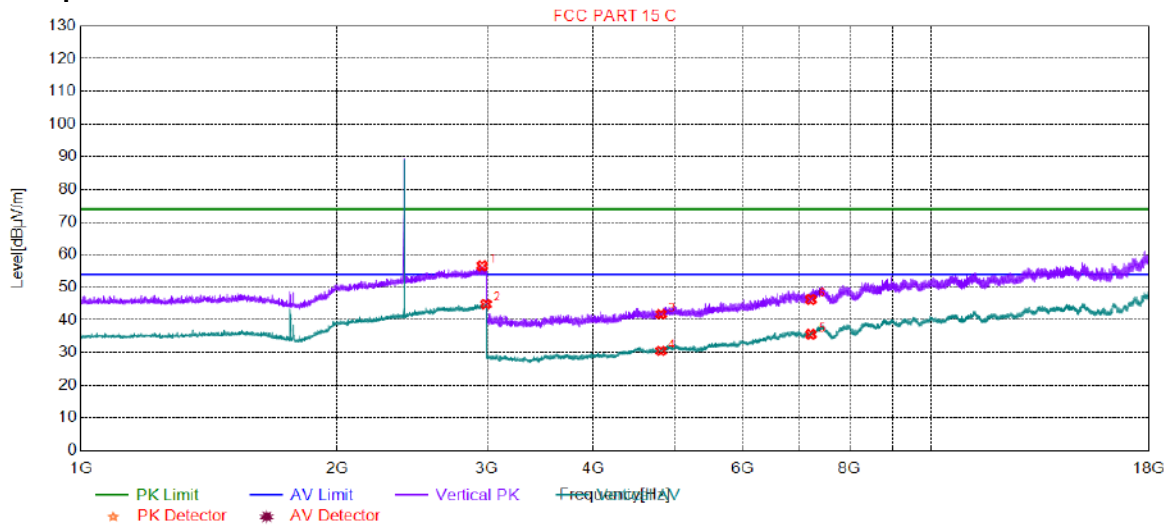
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### 4.9.2.2 BLE\_1M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.490	56.61	74.00	17.39	204	42	Vertical
2	2991.998	44.91	54.00	9.09	267	266	Vertical
3	4804.000	41.81	74.00	32.19	273	255	Vertical
4	4804.000	30.55	54.00	23.45	272	237	Vertical
5	7206.000	35.66	54.00	18.34	279	203	Vertical
6	7206.000	46.30	74.00	27.70	274	255	Vertical

#### Final Data List



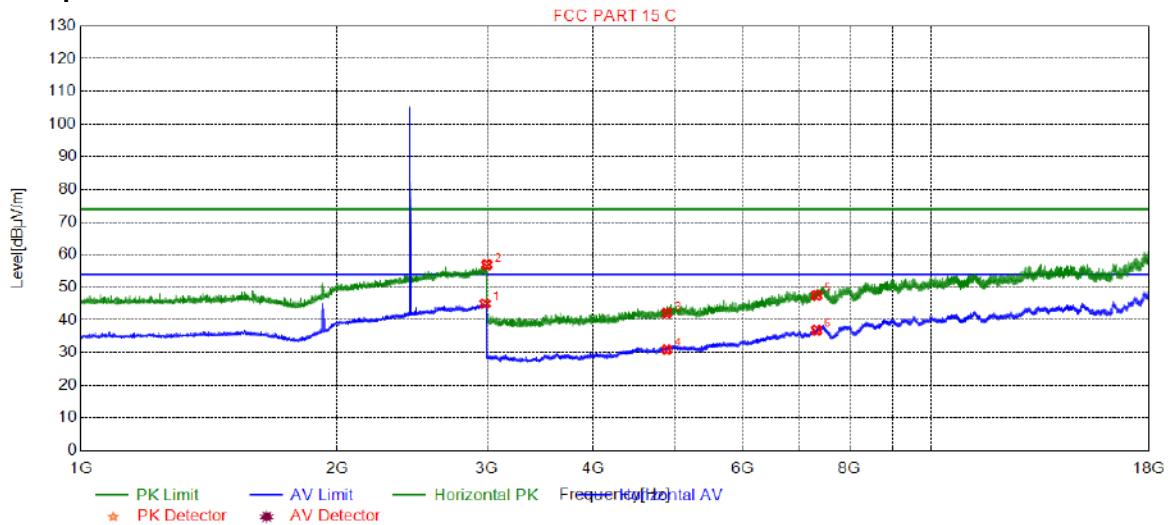
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### 4.9.2.3 BLE\_1M\_Channel 19 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.496	45.06	54.00	8.94	106	121	Horizontal
2	3000.000	56.94	74.00	17.06	185	220	Horizontal
3	4880.000	42.13	74.00	31.87	129	226	Horizontal
4	4880.000	30.93	54.00	23.07	112	87	Horizontal
5	7320.000	47.59	74.00	26.41	172	191	Horizontal
6	7320.000	36.90	54.00	17.10	192	36	Horizontal

#### Final Data List

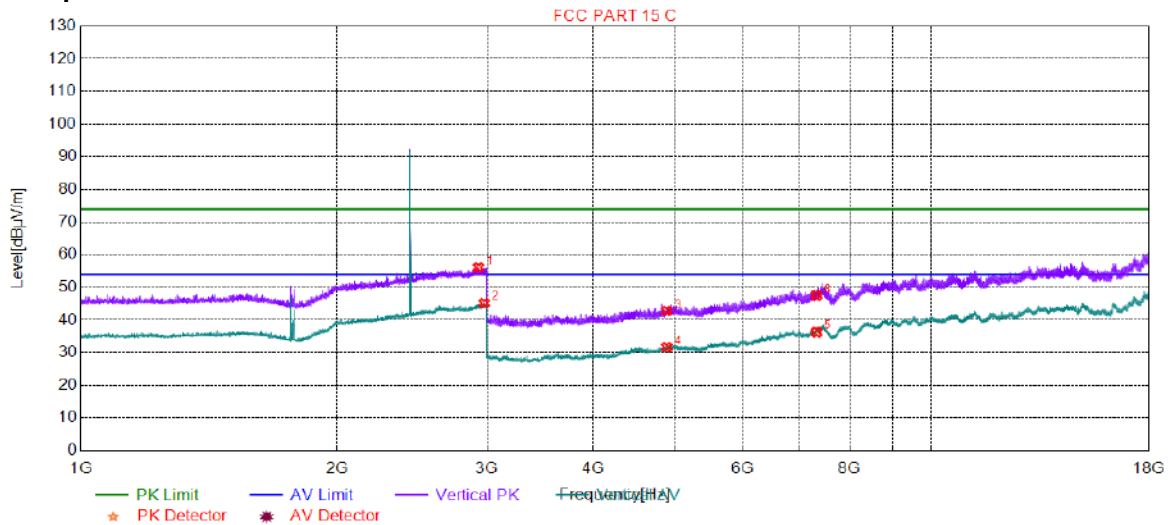


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### 4.9.2.4 BLE\_1M\_Channel 19 ANT1

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2931.983	56.11	74.00	17.89	193	249	Vertical
2	2978.494	45.24	54.00	8.76	170	4	Vertical
3	4880.000	42.80	74.00	31.20	265	65	Vertical
4	4880.000	31.69	54.00	22.31	236	134	Vertical
5	7320.000	36.29	54.00	17.71	165	82	Vertical
6	7320.000	47.53	74.00	26.47	186	254	Vertical

#### Final Data List



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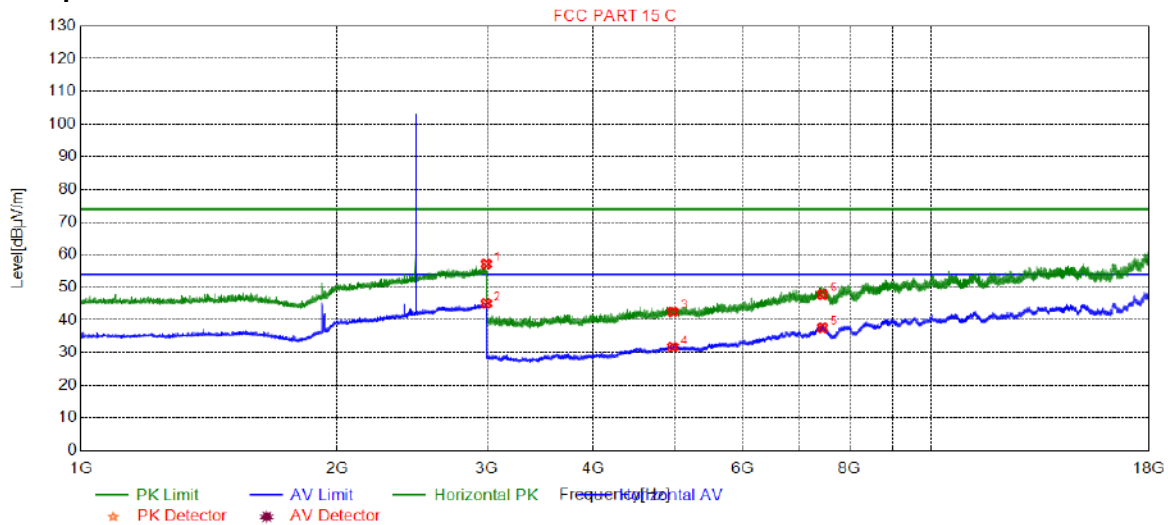
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### 4.9.2.5 BLE\_1M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

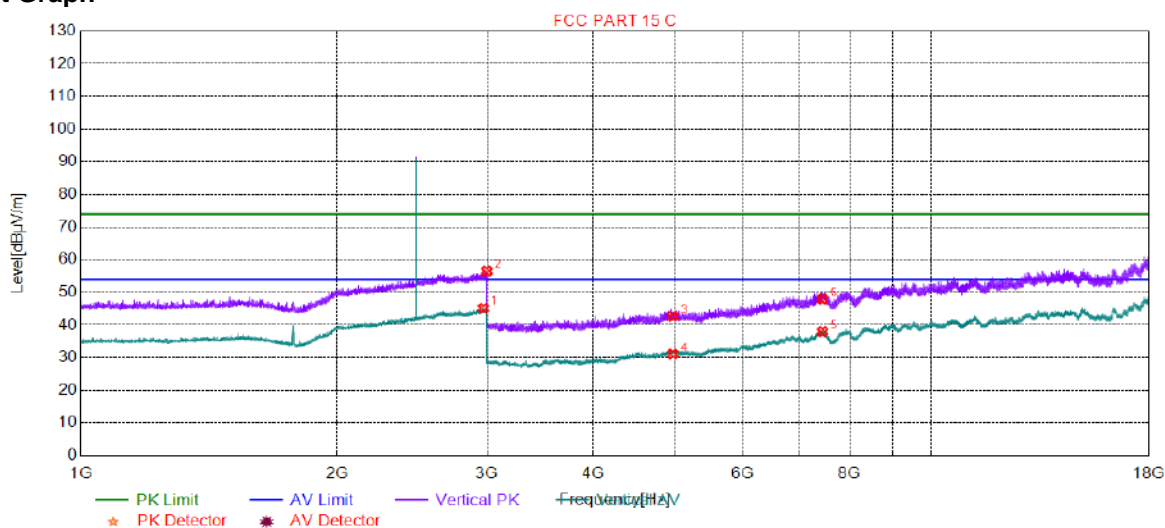
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2994.498	57.16	74.00	16.84	129	120	Horizontal
2	2994.498	45.13	54.00	8.87	197	156	Horizontal
3	4960.000	42.51	74.00	31.49	244	87	Horizontal
4	4960.000	31.72	54.00	22.28	114	260	Horizontal
5	7440.000	37.62	54.00	16.38	177	260	Horizontal
6	7440.000	47.87	74.00	26.13	137	294	Horizontal

#### Final Data List



### 4.9.2.6 BLE\_1M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.493	45.20	54.00	8.80	178	316	Vertical
2	3000.000	56.53	74.00	17.47	221	289	Vertical
3	4960.000	42.66	74.00	31.34	157	290	Vertical
4	4960.000	31.14	54.00	22.86	152	31	Vertical
5	7440.000	38.00	54.00	16.00	226	237	Vertical
6	7440.000	47.96	74.00	26.04	255	14	Vertical

#### Final Data List

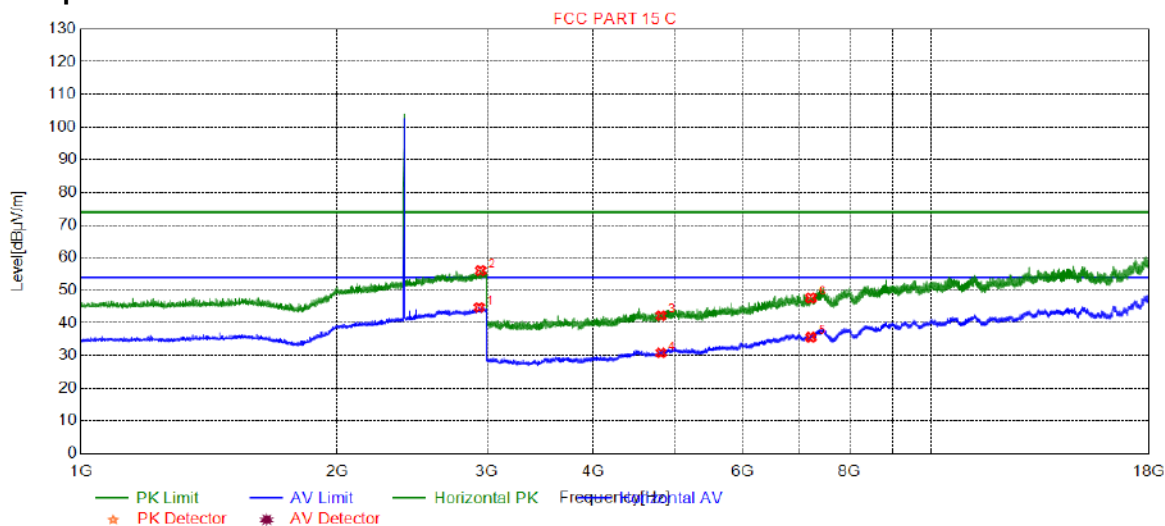


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### 4.9.2.1 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.484	44.83	54.00	9.17	217	43	Horizontal
2	2948.487	56.06	74.00	17.94	178	158	Horizontal
3	4804.000	42.27	74.00	31.73	215	209	Horizontal
4	4804.000	30.87	54.00	23.13	235	19	Horizontal
5	7206.000	35.68	54.00	18.32	204	243	Horizontal
6	7206.000	47.69	74.00	26.31	172	36	Horizontal

#### Final Data List

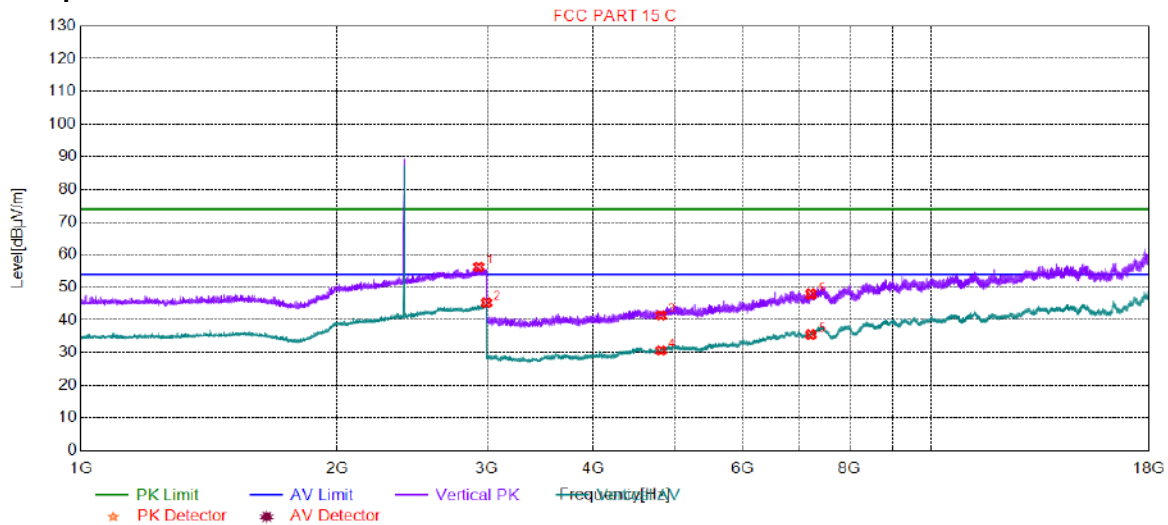


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### 4.9.2.2 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.483	56.25	74.00	17.75	278	14	Vertical
2	2996.499	45.34	54.00	8.66	177	304	Vertical
3	4804.000	41.40	74.00	32.60	277	359	Vertical
4	4804.000	30.68	54.00	23.32	163	359	Vertical
5	7206.000	35.58	54.00	18.42	180	152	Vertical
6	7206.000	48.03	74.00	25.97	184	186	Vertical

#### Final Data List



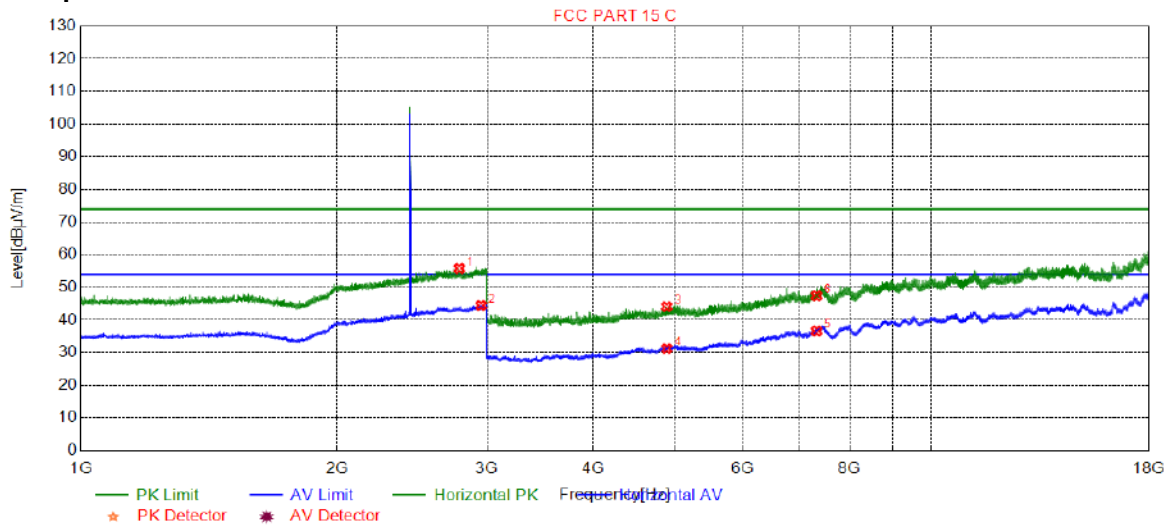
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### 4.9.2.3 BLE\_2M\_Channel 19 ANT1

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2784.446	55.80	74.00	18.20	166	326	Horizontal
2	2951.988	44.50	54.00	9.50	150	300	Horizontal
3	4880.000	44.14	74.00	29.86	238	34	Horizontal
4	4880.000	31.25	54.00	22.75	136	121	Horizontal
5	7320.000	36.65	54.00	17.35	217	52	Horizontal
6	7320.000	47.45	74.00	26.55	237	69	Horizontal

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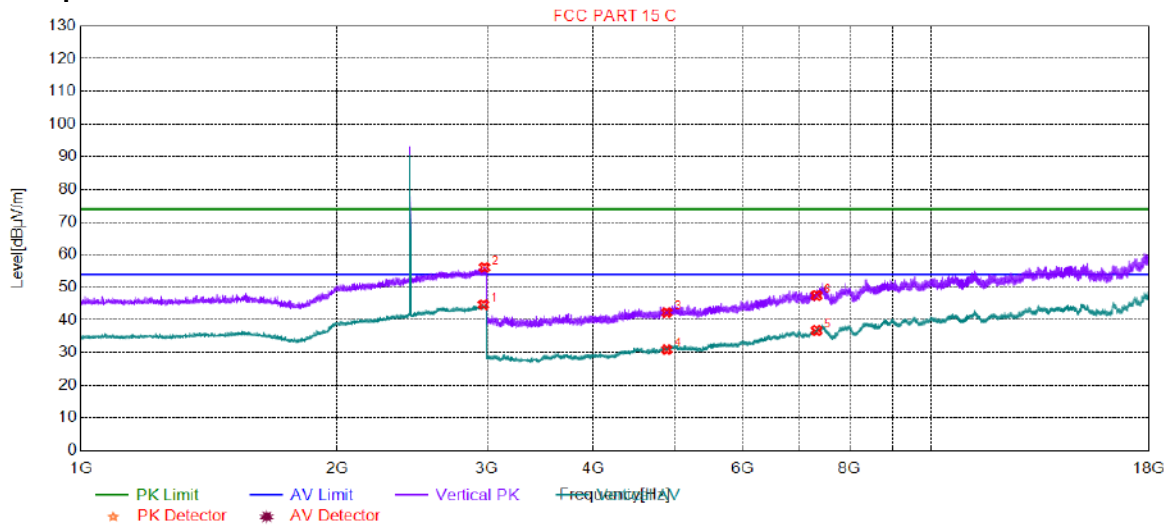
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### 4.9.2.4 BLE\_2M\_Channel 19 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2972.493	44.75	54.00	9.25	150	45	Vertical
2	2980.495	56.12	74.00	17.88	284	149	Vertical
3	4880.000	42.29	74.00	31.71	295	66	Vertical
4	4880.000	30.94	54.00	23.06	174	83	Vertical
5	7320.000	36.81	54.00	17.19	237	272	Vertical
6	7320.000	47.53	74.00	26.47	180	169	Vertical

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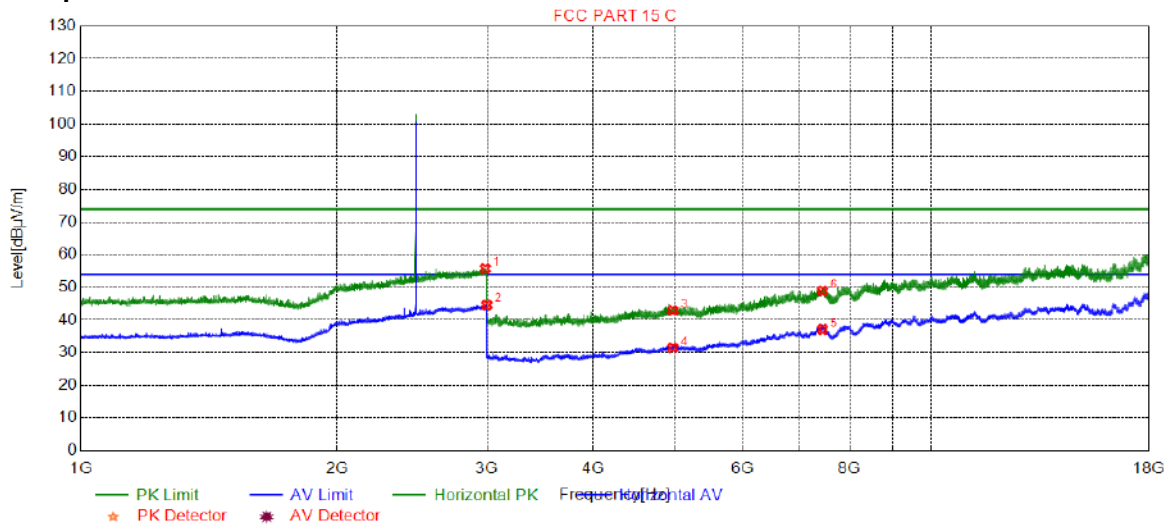
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### 4.9.2.5 BLE\_2M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2985.996	55.77	74.00	18.23	200	105	Horizontal
2	2999.499	44.63	54.00	9.37	151	225	Horizontal
3	4960.000	42.97	74.00	31.03	169	137	Horizontal
4	4960.000	31.49	54.00	22.51	163	311	Horizontal
5	7440.000	37.13	54.00	16.87	199	155	Horizontal
6	7440.000	48.90	74.00	25.10	151	346	Horizontal

#### Final Data List



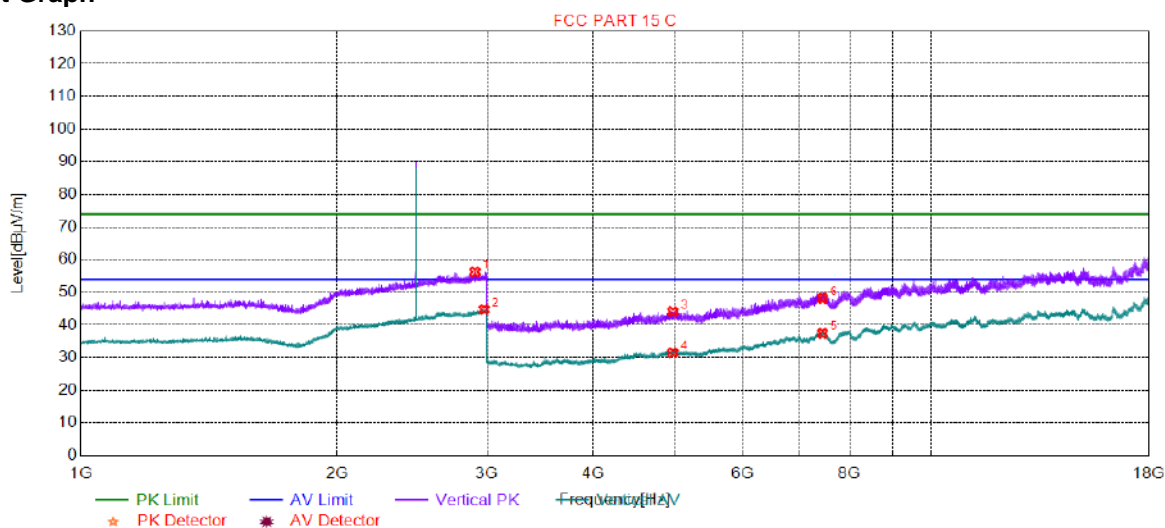
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### 4.9.2.6 BLE\_2M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2904.476	56.27	74.00	17.73	255	93	Vertical
2	2977.994	44.82	54.00	9.18	158	347	Vertical
3	4960.000	44.16	74.00	29.84	299	117	Vertical
4	4960.000	31.52	54.00	22.48	242	82	Vertical
5	7440.000	37.46	54.00	16.54	298	100	Vertical
6	7440.000	48.22	74.00	25.78	161	100	Vertical

#### Final Data List



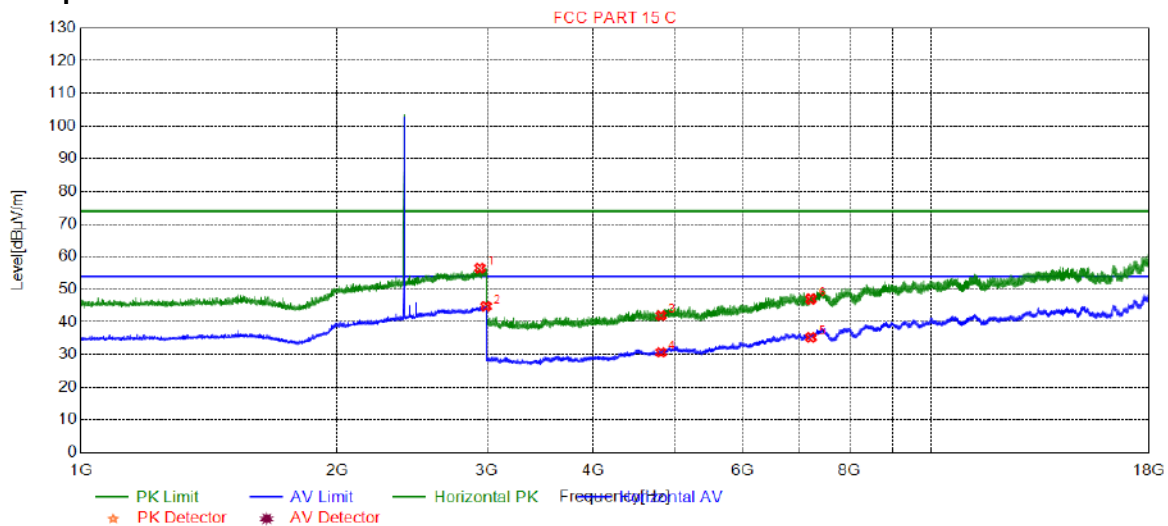
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### 4.9.2.1 BLE\_1M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2942.985	56.52	74.00	17.48	210	325	Horizontal
2	2992.498	44.86	54.00	9.14	234	172	Horizontal
3	4804.000	42.00	74.00	32.00	236	54	Horizontal
4	4804.000	30.72	54.00	23.28	137	346	Horizontal
5	7206.000	35.33	54.00	18.67	218	1	Horizontal
6	7206.000	47.07	74.00	26.93	132	260	Horizontal

#### Final Data List



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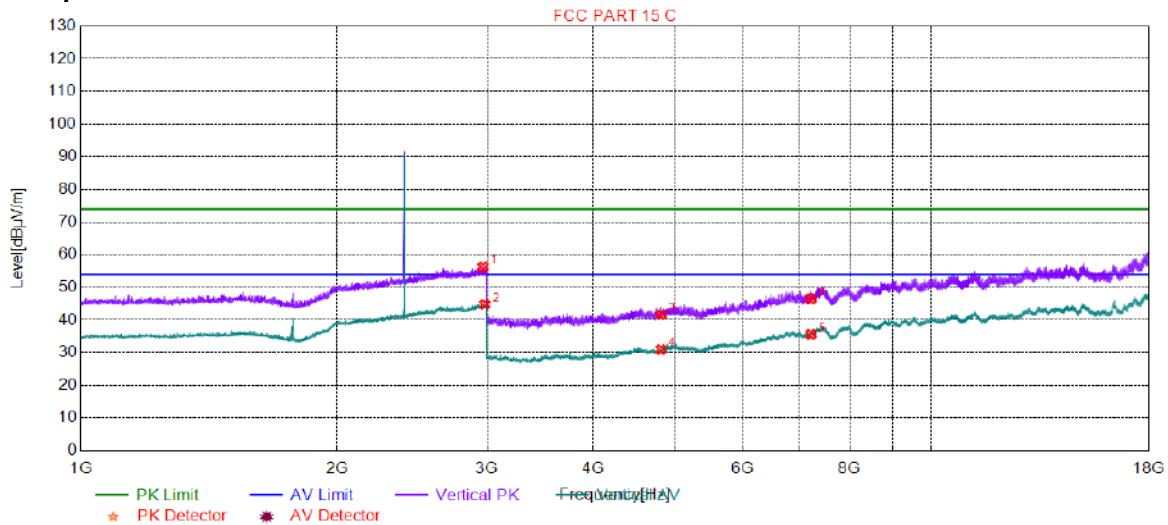
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### 4.9.2.2 BLE\_1M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2969.492	56.31	74.00	17.69	267	119	Vertical
2	2982.495	44.85	54.00	9.15	275	56	Vertical
3	4804.000	41.64	74.00	32.36	250	117	Vertical
4	4804.000	30.97	54.00	23.03	249	185	Vertical
5	7206.000	35.64	54.00	18.36	222	254	Vertical
6	7206.000	46.53	74.00	27.47	153	31	Vertical

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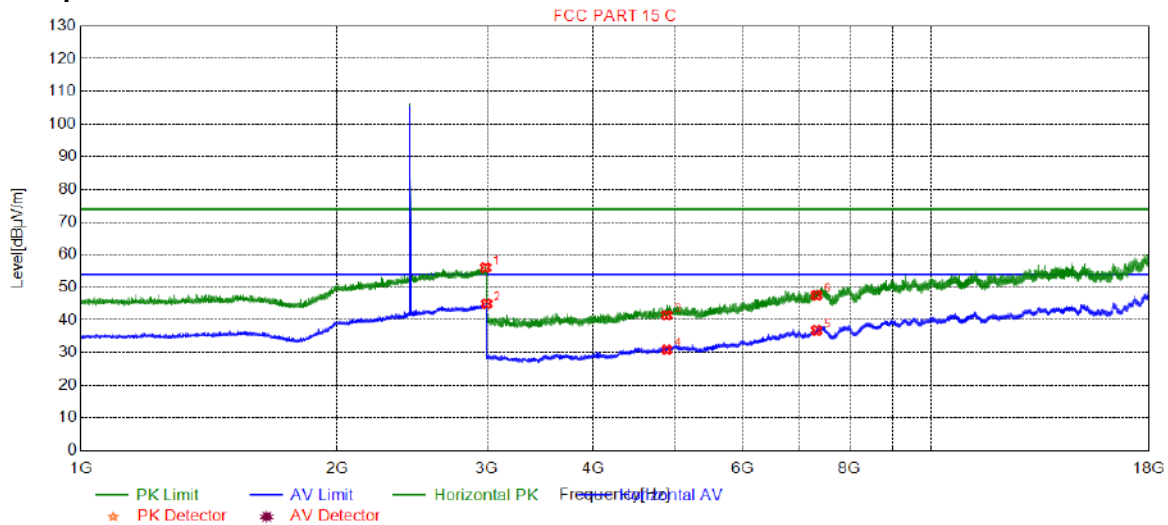
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### 4.9.2.3 BLE\_1M\_Channel 19 ANT2

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2988.497	56.06	74.00	17.94	208	81	Horizontal
2	2997.999	45.02	54.00	8.98	210	113	Horizontal
3	4880.000	41.48	74.00	32.52	194	20	Horizontal
4	4880.000	30.92	54.00	23.08	187	88	Horizontal
5	7320.000	36.84	54.00	17.16	135	260	Horizontal
6	7320.000	47.62	74.00	26.38	181	123	Horizontal

#### Final Data List

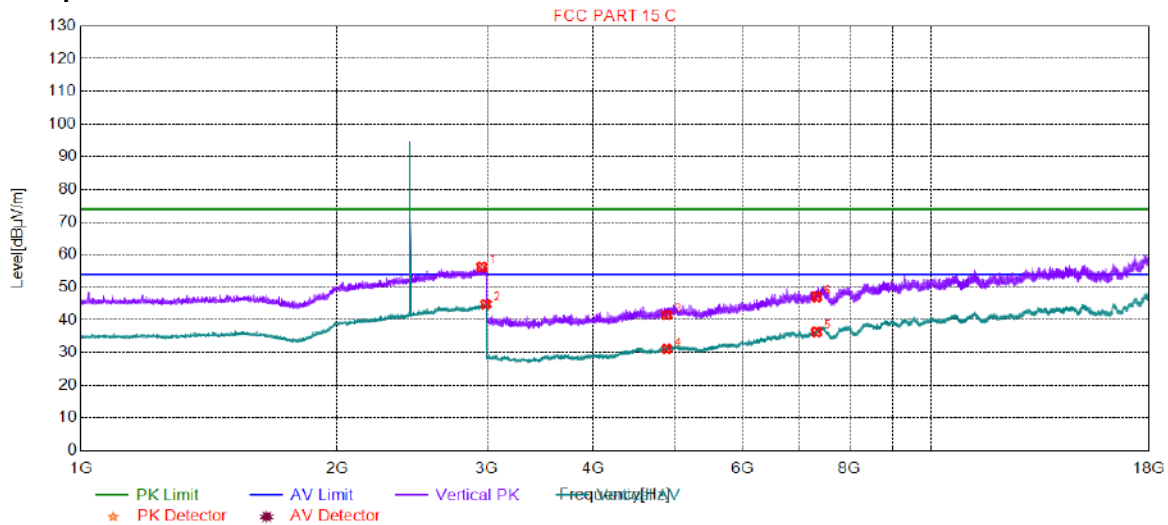


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### 4.9.2.4 BLE\_1M\_Channel 19 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2958.489	56.26	74.00	17.74	278	182	Vertical
2	2990.997	44.90	54.00	9.10	232	95	Vertical
3	4880.000	41.57	74.00	32.43	252	357	Vertical
4	4880.000	31.18	54.00	22.82	211	340	Vertical
5	7320.000	36.35	54.00	17.65	251	168	Vertical
6	7320.000	47.10	74.00	26.90	235	271	Vertical

#### Final Data List



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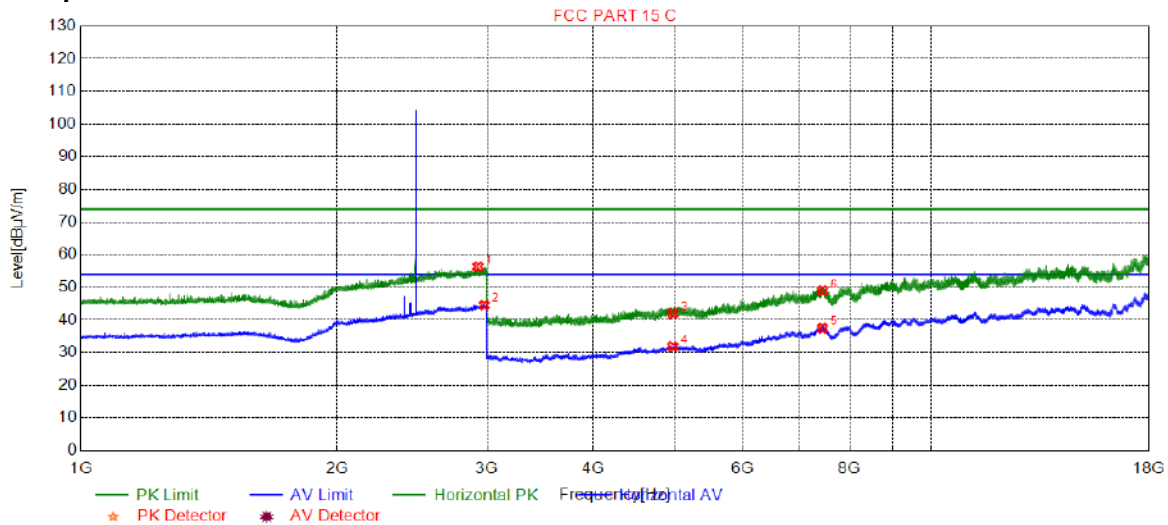
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### 4.9.2.5 BLE\_1M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2929.482	56.35	74.00	17.65	191	146	Horizontal
2	2978.494	44.60	54.00	9.40	148	331	Horizontal
3	4960.000	41.98	74.00	32.02	167	19	Horizontal
4	4960.000	31.89	54.00	22.11	246	294	Horizontal
5	7440.000	37.47	54.00	16.53	106	243	Horizontal
6	7440.000	49.01	74.00	24.99	248	19	Horizontal

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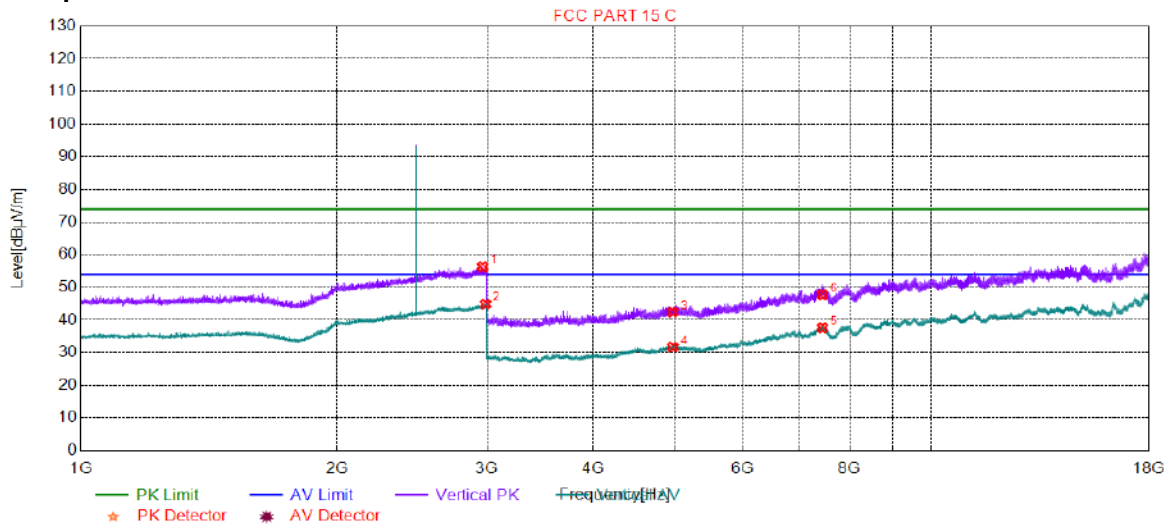
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### 4.9.2.6 BLE\_1M\_Channel 39 ANT2

#### Test Graph



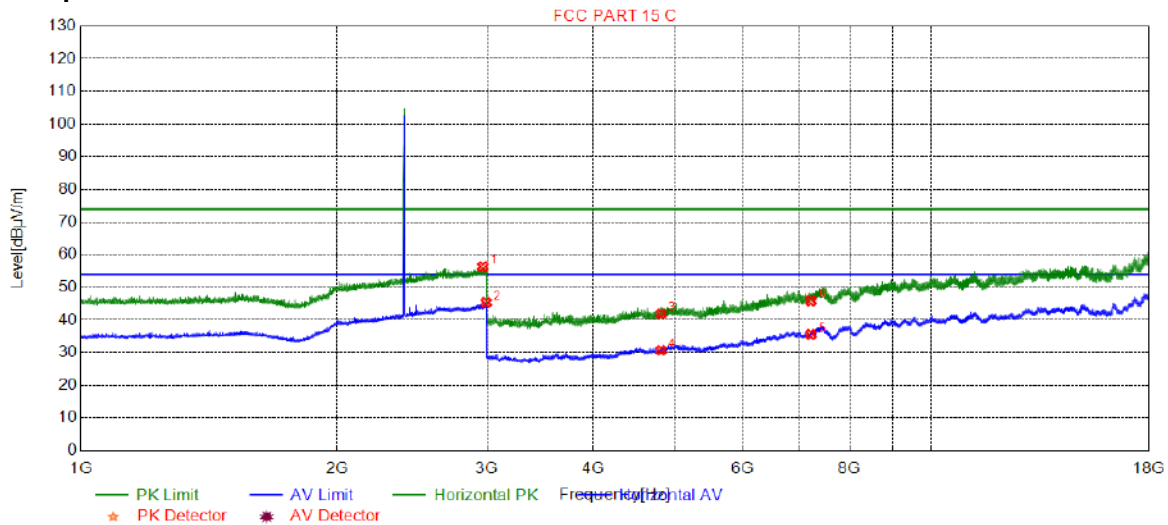
#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2965.491	56.34	74.00	17.66	187	291	Vertical
2	2988.997	44.92	54.00	9.08	182	204	Vertical
3	4960.000	42.41	74.00	31.59	179	14	Vertical
4	4960.000	31.74	54.00	22.26	168	82	Vertical
5	7440.000	37.62	54.00	16.38	163	117	Vertical
6	7440.000	47.79	74.00	26.21	283	65	Vertical

#### Final Data List

### 4.9.2.1 BLE\_2M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2967.992	56.36	74.00	17.64	165	89	Horizontal
2	2993.498	45.43	54.00	8.57	151	178	Horizontal
3	4804.000	41.92	74.00	32.08	245	122	Horizontal
4	4804.000	30.73	54.00	23.27	191	53	Horizontal
5	7206.000	35.63	54.00	18.37	149	346	Horizontal
6	7206.000	45.89	74.00	28.11	213	346	Horizontal

#### Final Data List



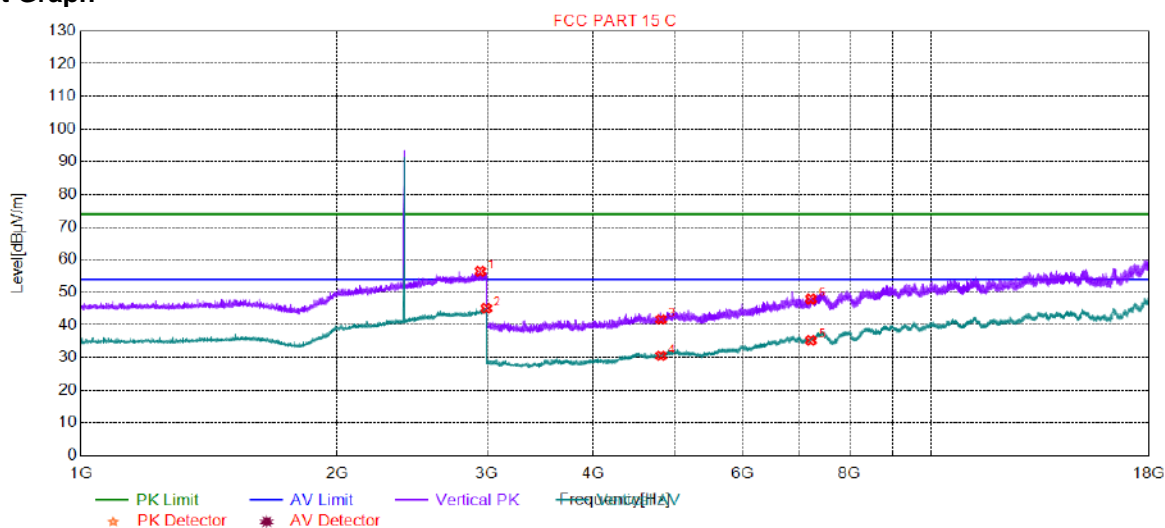
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### 4.9.2.2 BLE\_2M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.486	56.47	74.00	17.53	230	213	Vertical
2	2994.998	45.18	54.00	8.82	211	335	Vertical
3	4804.000	41.72	74.00	32.28	299	324	Vertical
4	4804.000	30.58	54.00	23.42	258	65	Vertical
5	7206.000	35.34	54.00	18.66	267	237	Vertical
6	7206.000	47.98	74.00	26.02	236	168	Vertical

#### Final Data List

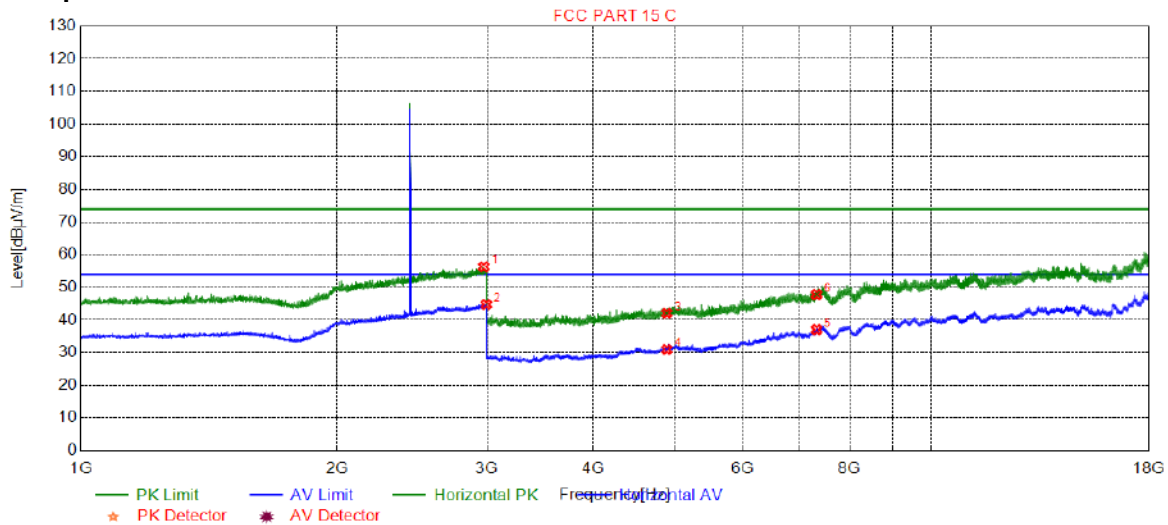


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### 4.9.2.3 BLE\_2M\_Channel 19 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2974.993	56.31	74.00	17.69	215	115	Horizontal
2	2994.998	44.81	54.00	9.19	234	331	Horizontal
3	4880.000	42.10	74.00	31.90	158	346	Horizontal
4	4880.000	30.96	54.00	23.04	113	86	Horizontal
5	7320.000	37.06	54.00	16.94	119	208	Horizontal
6	7320.000	47.83	74.00	26.17	172	86	Horizontal

#### Final Data List



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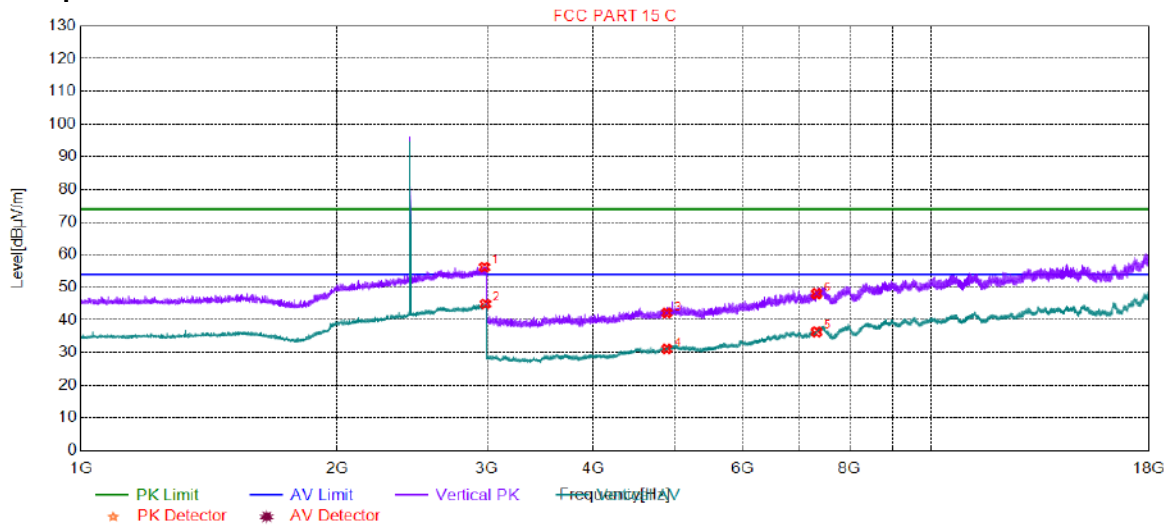
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### 4.9.2.4 BLE\_2M\_Channel 19 ANT2

#### Test Graph



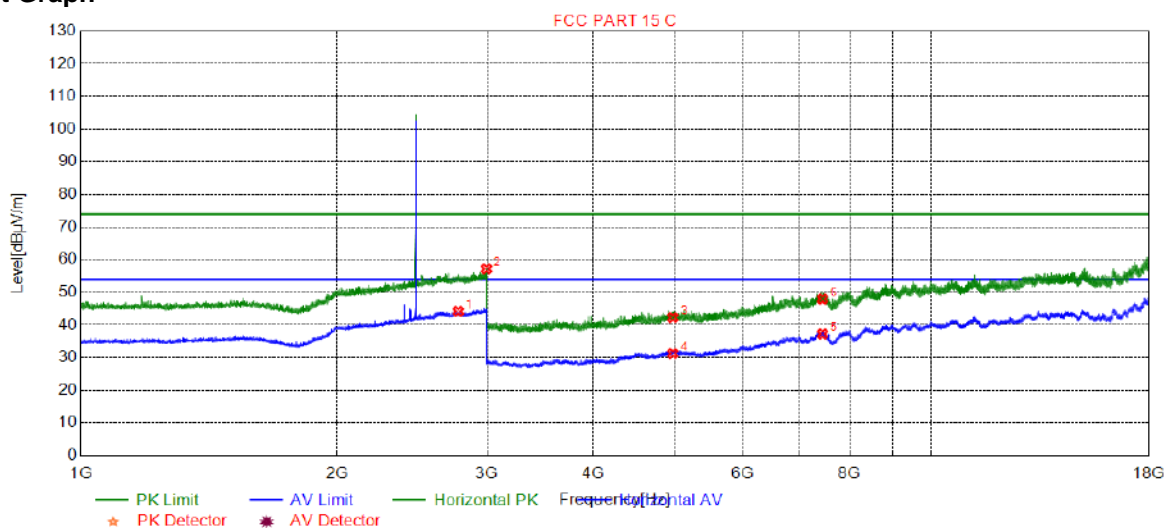
#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2980.495	56.21	74.00	17.79	217	214	Vertical
2	2987.496	44.97	54.00	9.03	156	46	Vertical
3	4880.000	42.19	74.00	31.81	248	240	Vertical
4	4880.000	31.16	54.00	22.84	270	14	Vertical
5	7320.000	36.35	54.00	17.65	246	188	Vertical
6	7320.000	48.09	74.00	25.91	267	309	Vertical

#### Final Data List

### 4.9.2.5 BLE\_2M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2775.944	44.21	54.00	9.79	177	0	Horizontal
2	2996.499	57.20	74.00	16.80	134	58	Horizontal
3	4960.000	42.30	74.00	31.70	116	138	Horizontal
4	4960.000	31.27	54.00	22.73	167	243	Horizontal
5	7440.000	37.27	54.00	16.73	191	156	Horizontal
6	7440.000	47.99	74.00	26.01	205	138	Horizontal

#### Final Data List



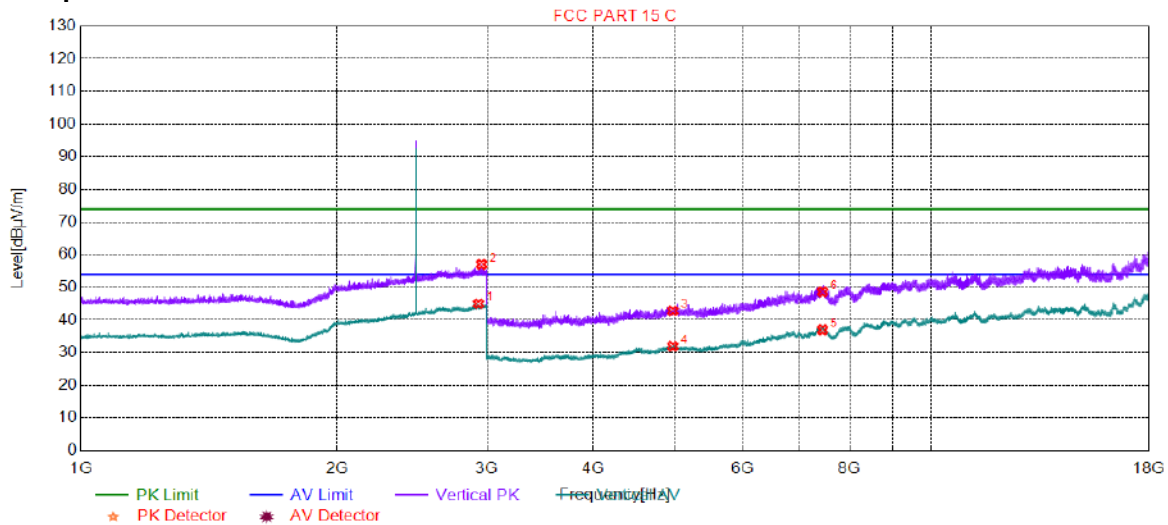
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### 4.9.2.6 BLE\_2M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2932.483	45.03	54.00	8.97	275	332	Vertical
2	2956.489	57.05	74.00	16.95	189	25	Vertical
3	4960.000	42.81	74.00	31.19	185	238	Vertical
4	4960.000	31.97	54.00	22.03	279	289	Vertical
5	7440.000	37.01	54.00	16.99	235	341	Vertical
6	7440.000	48.64	74.00	25.36	215	306	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:			

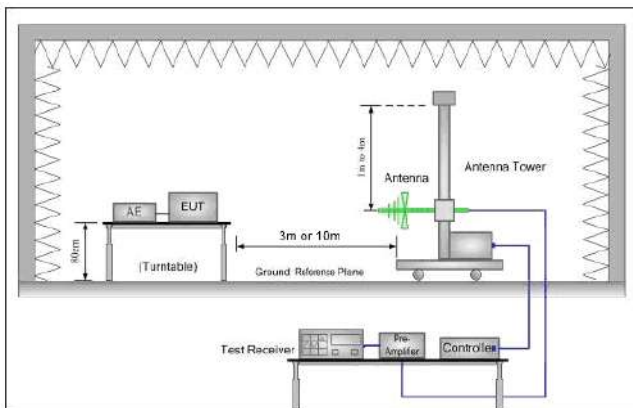


Figure 1. 30MHz to 1GHz

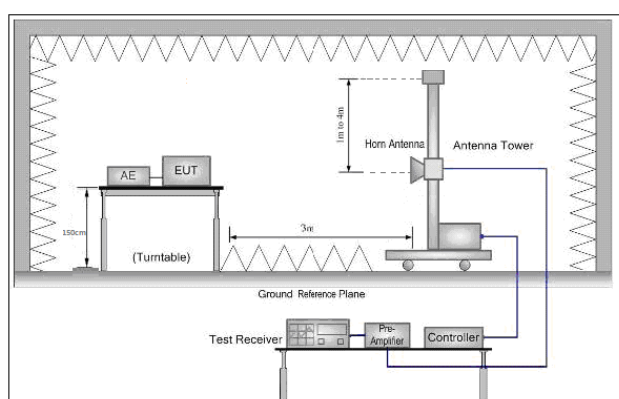


Figure 2. Above 1 GHz

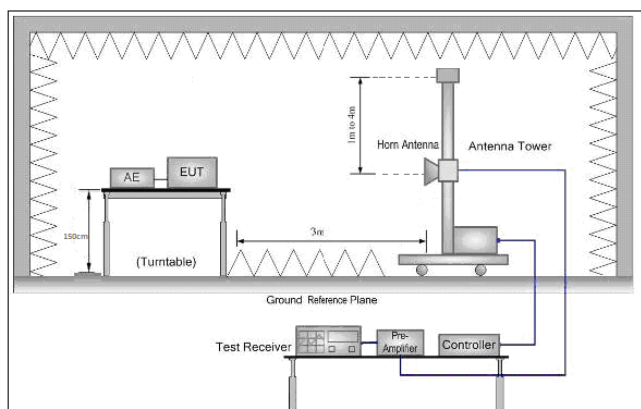


Figure 3. Above 1 GHz



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Test Procedure:	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
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

The detailed test data see: **Appendix**



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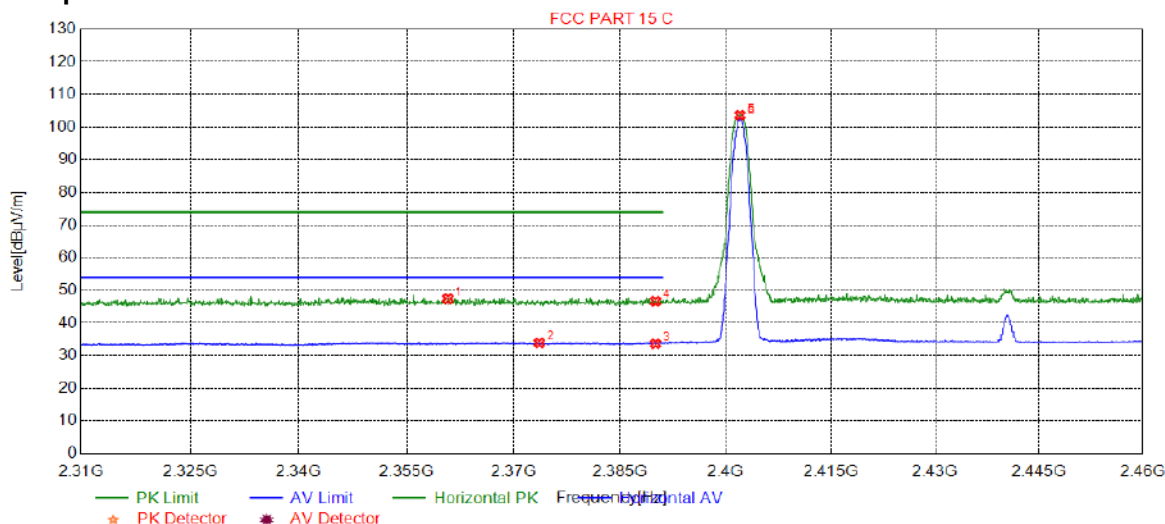
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### 4.10.1 Test Plots

#### 4.10.1.1 BLE\_1M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.800	47.47	74.00	26.53	120	81	Horizontal
2	2373.631	33.95	54.00	20.05	104	262	Horizontal
3	2390.000	33.70	54.00	20.30	249	97	Horizontal
4	2390.000	46.70	74.00	27.30	189	196	Horizontal
5	2402.000	103.65	0.00	-103.65	228	64	Horizontal
6	2402.000	103.17	0.00	-103.17	194	60	Horizontal

#### Final Data List



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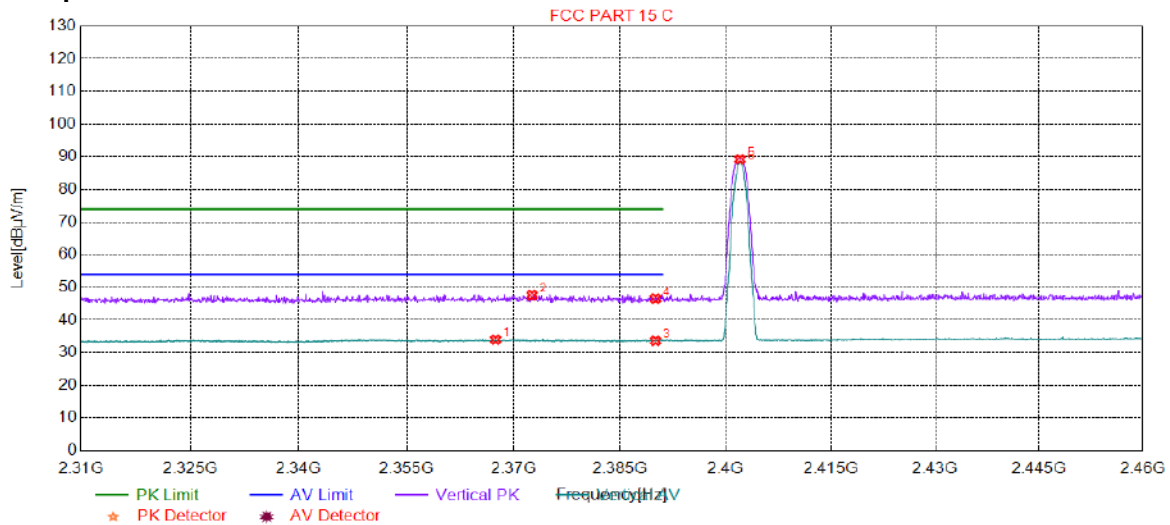
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### 4.10.1.2 BLE\_1M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2367.478	34.02	54.00	19.98	214	24	Vertical
2	2372.581	47.64	74.00	26.36	153	222	Vertical
3	2390.000	33.68	54.00	20.32	296	150	Vertical
4	2390.000	46.58	74.00	27.42	295	145	Vertical
5	2402.000	89.27	0.00	-89.27	283	230	Vertical
6	2402.000	88.38	0.00	-88.38	166	140	Vertical

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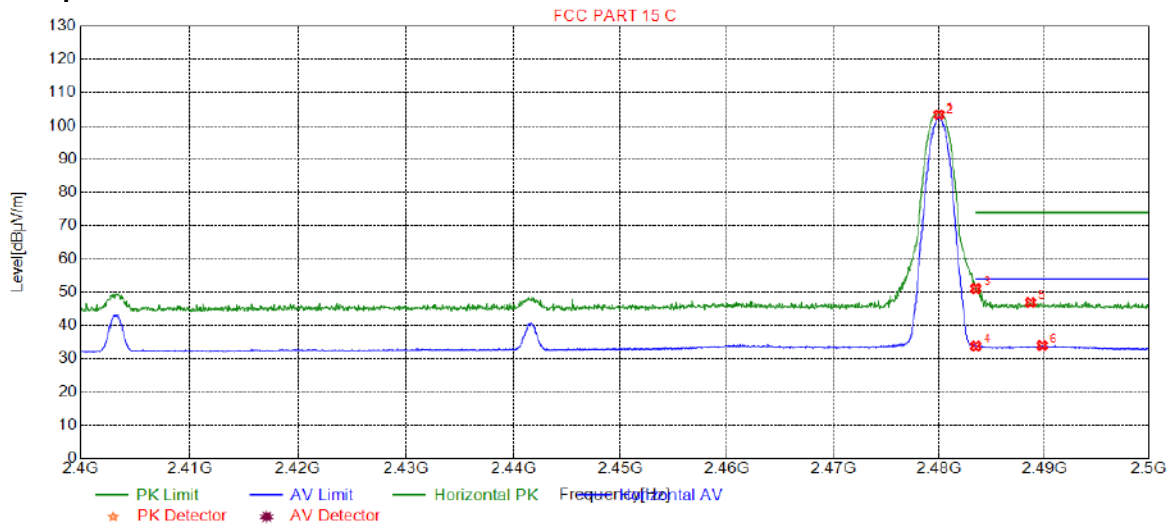
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### 4.10.1.3 BLE\_1M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.35	0.00	-103.35	241	64	Horizontal
2	2480.000	102.88	0.00	-102.88	154	64	Horizontal
3	2483.500	51.11	74.00	22.89	114	42	Horizontal
4	2483.500	33.80	54.00	20.20	229	70	Horizontal
5	2488.694	46.96	74.00	27.04	108	86	Horizontal
6	2489.794	33.99	54.00	20.01	179	64	Horizontal

#### Final Data List



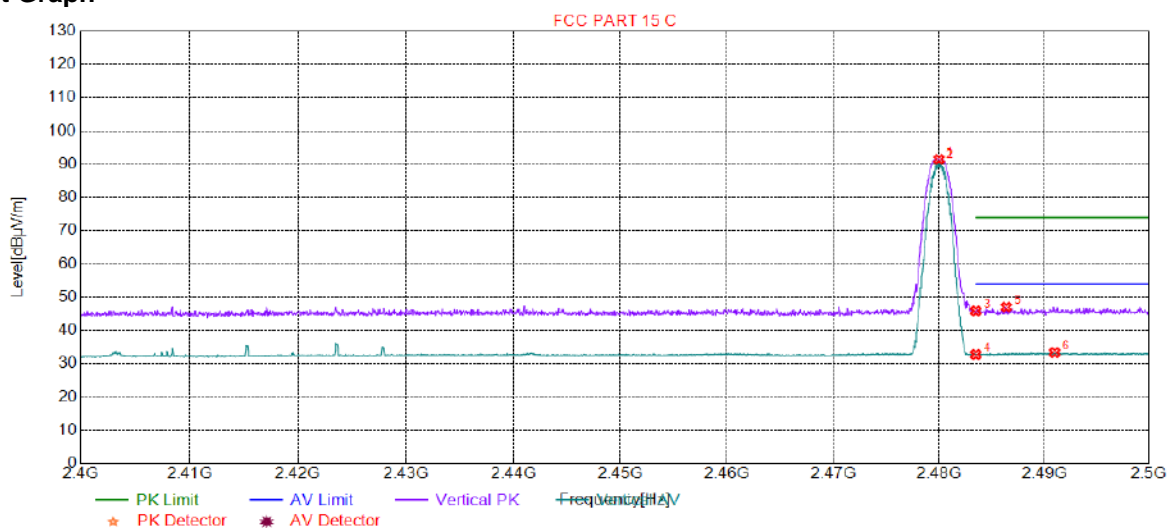
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### 4.10.1.4 BLE\_1M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	91.51	0.00	-91.51	164	218	Vertical
2	2480.000	90.93	0.00	-90.93	195	218	Vertical
3	2483.500	45.91	74.00	28.09	210	174	Vertical
4	2483.500	32.77	54.00	21.23	154	26	Vertical
5	2486.393	47.08	74.00	26.92	221	162	Vertical
6	2490.995	33.39	54.00	20.61	274	144	Vertical

#### Final Data List



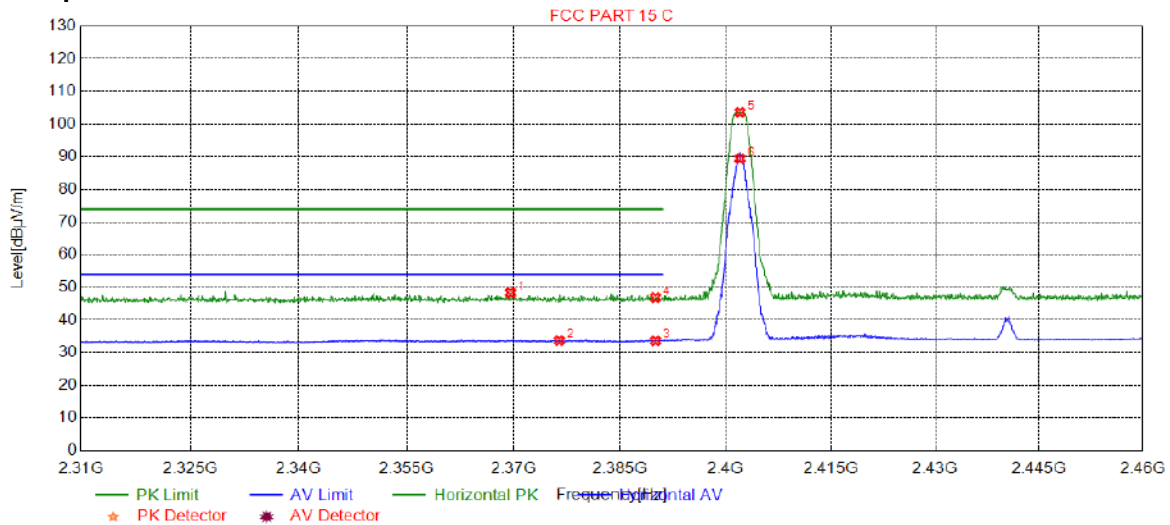
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### 4.10.1.5 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

##### Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.579	48.37	74.00	25.63	131	185	Horizontal
2	2376.408	33.74	54.00	20.26	163	14	Horizontal
3	2390.000	33.65	54.00	20.35	203	182	Horizontal
4	2390.000	46.89	74.00	27.11	208	118	Horizontal
5	2402.000	103.61	0.00	-103.61	195	49	Horizontal
6	2402.000	89.49	0.00	-89.49	198	98	Horizontal

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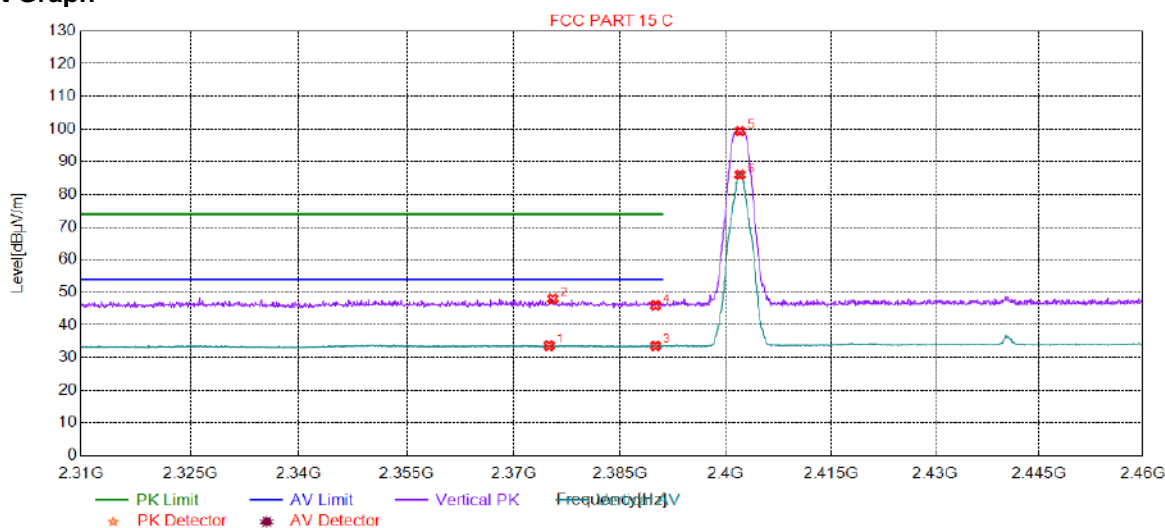
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### 4.10.1.6 BLE\_2M\_Channel 0 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.982	33.71	54.00	20.29	290	342	Vertical
2	2375.507	48.04	74.00	25.96	257	178	Vertical
3	2390.000	33.61	54.00	20.39	288	170	Vertical
4	2390.000	46.04	74.00	27.96	168	220	Vertical
5	2402.000	99.44	0.00	-99.44	162	167	Vertical
6	2402.000	86.04	0.00	-86.04	218	151	Vertical

#### Final Data List



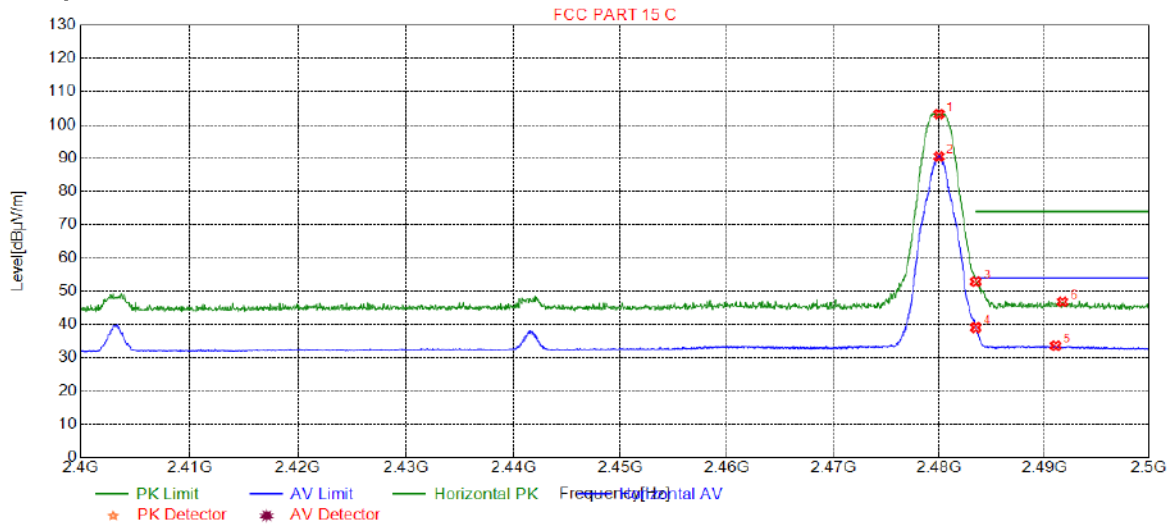
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### 4.10.1.7 BLE\_2M\_Channel 39 ANT1

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	103.23	0.00	-103.23	187	65	Horizontal
2	2480.000	90.55	0.00	-90.55	230	45	Horizontal
3	2483.500	52.90	74.00	21.10	246	65	Horizontal
4	2483.500	39.08	54.00	14.92	232	45	Horizontal
5	2491.095	33.62	54.00	20.38	149	68	Horizontal
6	2491.745	46.88	74.00	27.12	212	115	Horizontal

#### Final Data List



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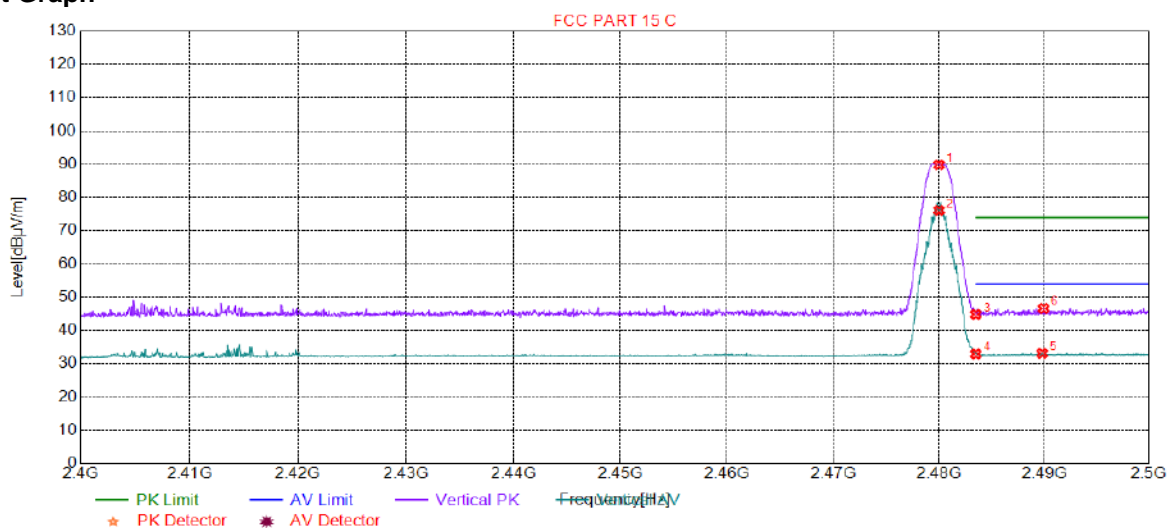
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### 4.10.1.8 BLE\_2M\_Channel 39 ANT1

#### Test Graph



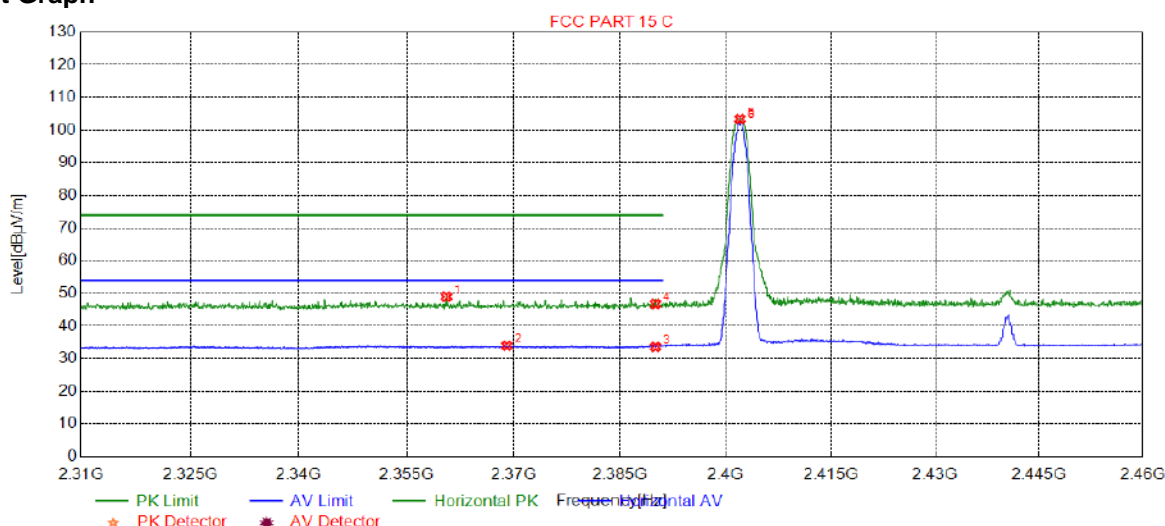
#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	89.85	0.00	-89.85	235	175	Vertical
2	2480.000	76.11	0.00	-76.11	211	351	Vertical
3	2483.500	44.86	74.00	29.14	250	332	Vertical
4	2483.500	32.94	54.00	21.06	270	229	Vertical
5	2489.794	33.13	54.00	20.87	212	52	Vertical
6	2489.945	46.66	74.00	27.34	286	217	Vertical

#### Final Data List

### 4.10.1.9 BLE\_1M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2360.575	48.98	74.00	25.02	164	300	Horizontal
2	2369.054	34.00	54.00	20.00	133	174	Horizontal
3	2390.000	33.66	54.00	20.34	127	262	Horizontal
4	2390.000	46.78	74.00	27.22	132	224	Horizontal
5	2402.000	103.40	0.00	-103.40	215	208	Horizontal
6	2402.000	102.58	0.00	-102.58	172	208	Horizontal

#### Final Data List



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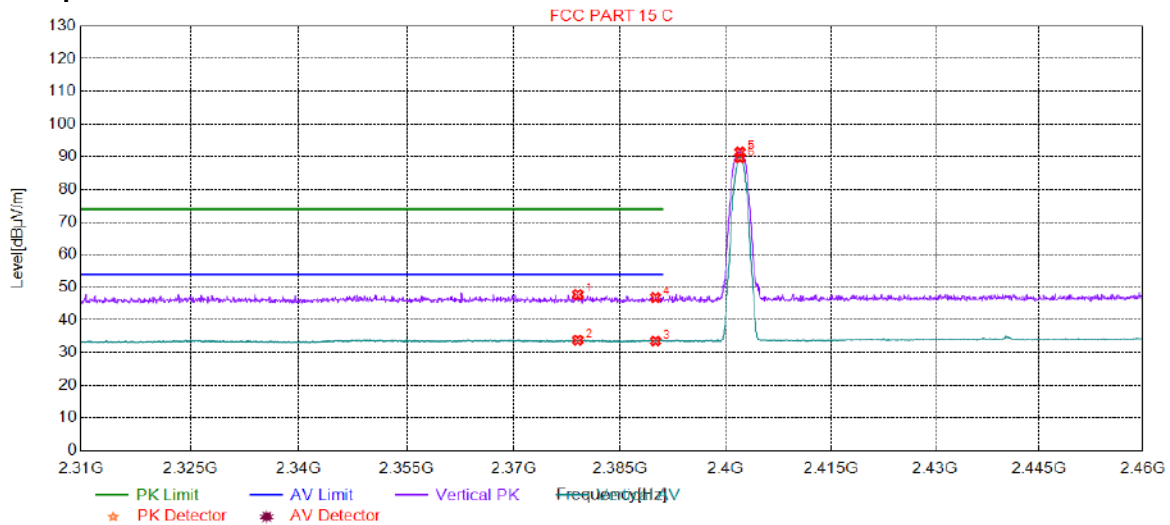
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### 4.10.1.10 BLE\_1M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2379.034	47.80	74.00	26.20	265	303	Vertical
2	2379.034	33.86	54.00	20.14	190	166	Vertical
3	2390.000	33.58	54.00	20.42	236	226	Vertical
4	2390.000	46.92	74.00	27.08	218	140	Vertical
5	2402.000	91.50	0.00	-91.50	273	230	Vertical
6	2402.000	89.67	0.00	-89.67	225	181	Vertical

#### Final Data List



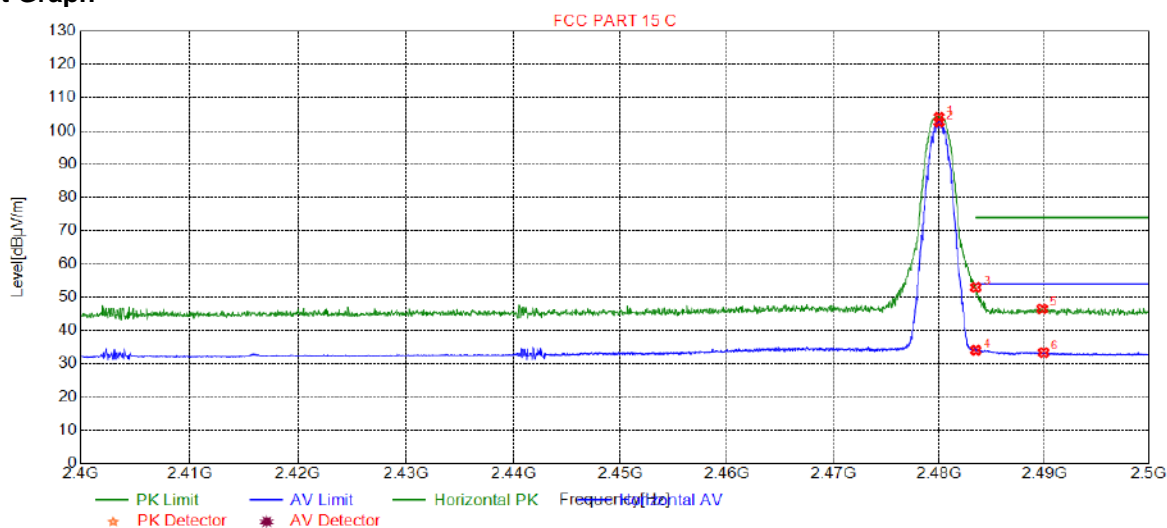
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### 4.10.1.11 BLE\_1M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	104.15	0.00	-104.15	193	260	Horizontal
2	2480.000	102.69	0.00	-102.69	145	302	Horizontal
3	2483.500	52.98	74.00	21.02	147	206	Horizontal
4	2483.500	34.07	54.00	19.93	154	263	Horizontal
5	2489.794	46.56	74.00	27.44	137	67	Horizontal
6	2489.945	33.35	54.00	20.65	194	260	Horizontal

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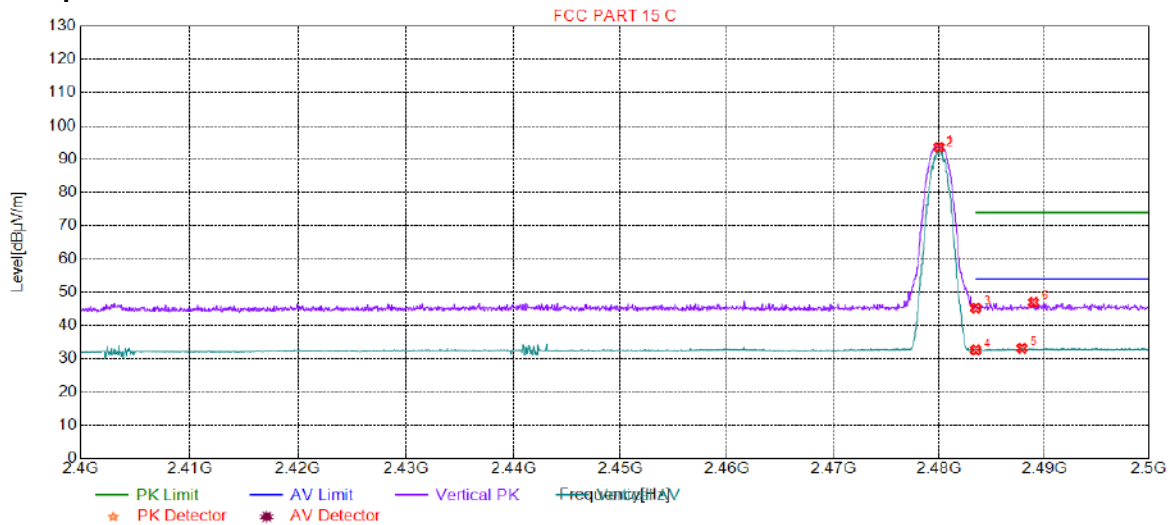
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### 4.10.1.12 BLE\_1M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	93.57	0.00	-93.57	270	359	Vertical
2	2480.000	92.93	0.00	-92.93	194	357	Vertical
3	2483.500	45.28	74.00	28.72	226	196	Vertical
4	2483.500	32.62	54.00	21.38	230	227	Vertical
5	2487.893	33.15	54.00	20.85	279	308	Vertical
6	2488.994	47.01	74.00	26.99	281	157	Vertical

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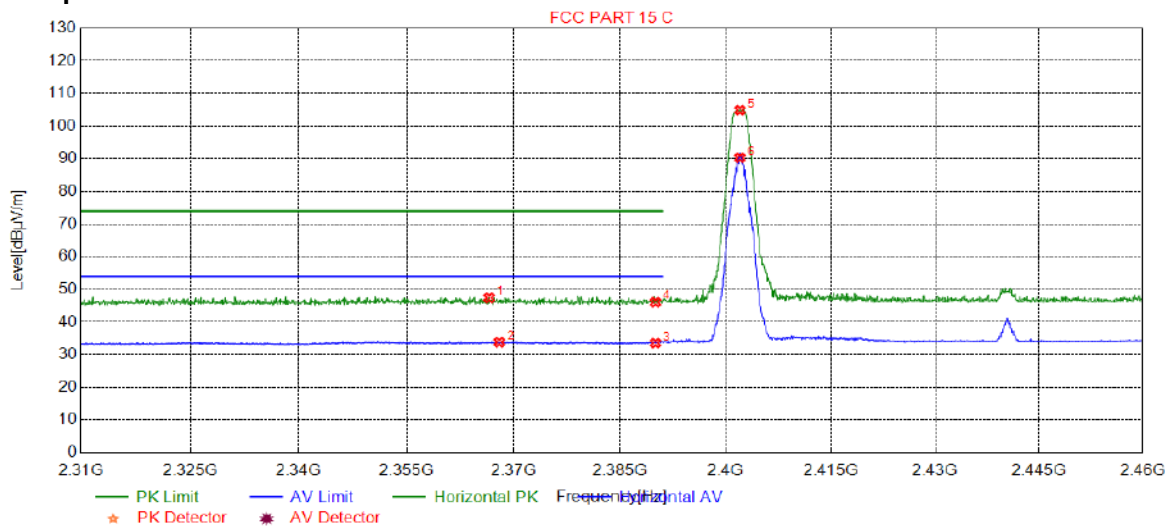
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### 4.10.1.13 BLE\_2M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.578	47.43	74.00	26.57	159	346	Horizontal
2	2368.004	33.87	54.00	20.13	178	143	Horizontal
3	2390.000	33.58	54.00	20.42	178	9	Horizontal
4	2390.000	46.09	74.00	27.91	245	200	Horizontal
5	2402.000	104.90	0.00	-104.90	172	207	Horizontal
6	2402.000	90.36	0.00	-90.36	188	301	Horizontal

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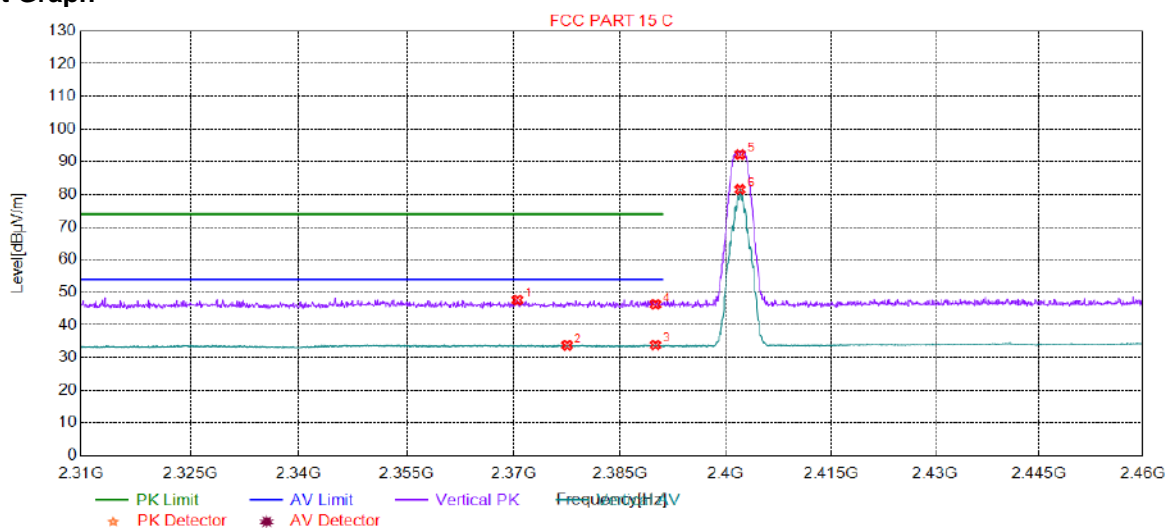
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### 4.10.1.14 BLE\_2M\_Channel 0 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2370.555	47.67	74.00	26.33	184	145	Vertical
2	2377.533	33.83	54.00	20.17	229	74	Vertical
3	2390.000	33.90	54.00	20.10	236	145	Vertical
4	2390.000	46.35	74.00	27.65	172	228	Vertical
5	2402.000	92.28	0.00	-92.28	161	91	Vertical
6	2402.000	81.56	0.00	-81.56	270	221	Vertical

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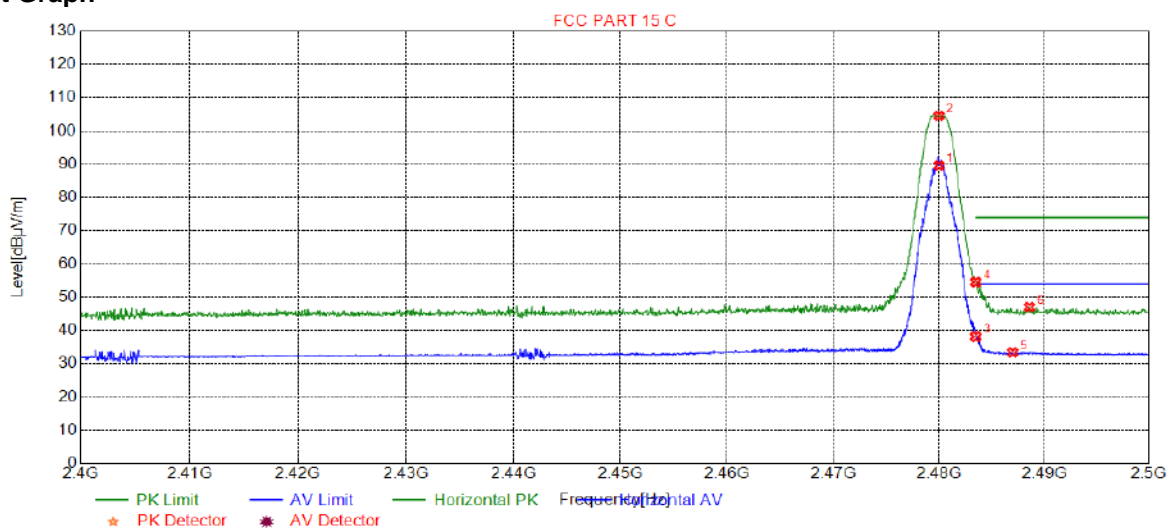
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### 4.10.1.15 BLE\_2M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	89.61	0.00	-89.61	127	197	Horizontal
2	2480.000	104.53	0.00	-104.53	210	209	Horizontal
3	2483.500	38.19	54.00	15.81	149	297	Horizontal
4	2483.500	54.61	74.00	19.39	190	209	Horizontal
5	2486.993	33.43	54.00	20.57	202	209	Horizontal
6	2488.594	47.09	74.00	26.91	129	217	Horizontal

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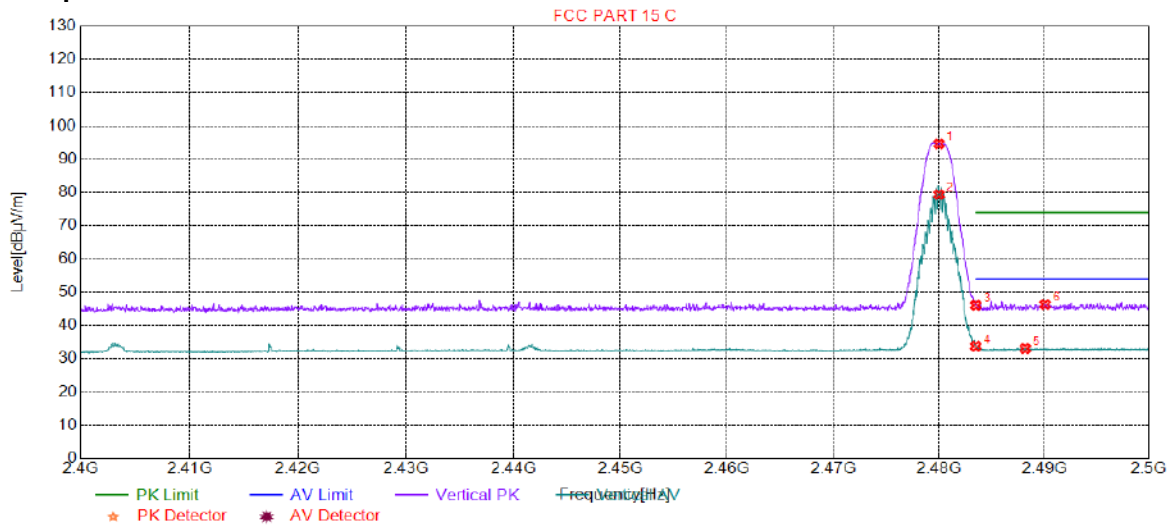
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### 4.10.1.16 BLE\_2M\_Channel 39 ANT2

#### Test Graph



#### Suspected List

Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.000	94.61	0.00	-94.61	196	159	Vertical
2	2480.000	79.40	0.00	-79.40	192	228	Vertical
3	2483.500	46.13	74.00	27.87	210	159	Vertical
4	2483.500	33.75	54.00	20.25	292	159	Vertical
5	2488.194	33.09	54.00	20.91	223	190	Vertical
6	2490.095	46.36	74.00	27.64	273	174	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	±0.75dB
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.	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					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Duedate
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologie Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
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	XAW01-08-05	2020-04-12	2021-04-11
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 Setup Photos.

The End



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