

FCC TEST REPORT

Application No.: HR/2020/B0007
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CHL-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCHL-LX1
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2020/12/9
Date of Test: 2020/12/9 to 2020/12/31
Date of Issue: 2021/4/25

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

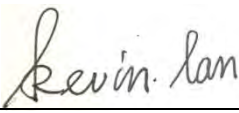



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-31		Original
02		2021-2-22	Jim Huang	Comment Revised
03		2021-4-25	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 HR/2020/B000703, issued on 2021-2-22, 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 & 99% Occupied 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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3 General Information

3.1 Details of Client

Applicant:	Honor Device Co., Ltd.
Address of Applicant	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer:	Honor Device Co., Ltd.
Address of Manufacturer	Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China

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:	Smart Phone
Model No.:	CHL-LX1
Trade Mark:	HONOR
Hardware Version:	HL3CHLM
Software Version:	5.0.1.69(C900E12R1P2)
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.1 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain:	-2.0dBi
Power Supply	<input checked="" type="checkbox"/> AC/DC Adapter; <input type="checkbox"/> Battery <input type="checkbox"/> PoE;; <input type="checkbox"/> Other:

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)
<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 -2.0dBi.</p>	



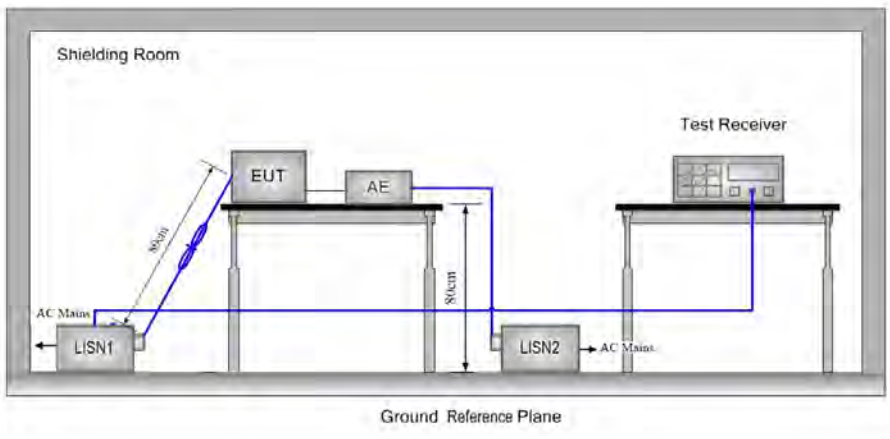
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4.2 AC Power Line Conducted Emissions

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:	<ol style="list-style-type: none"> 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. 		



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

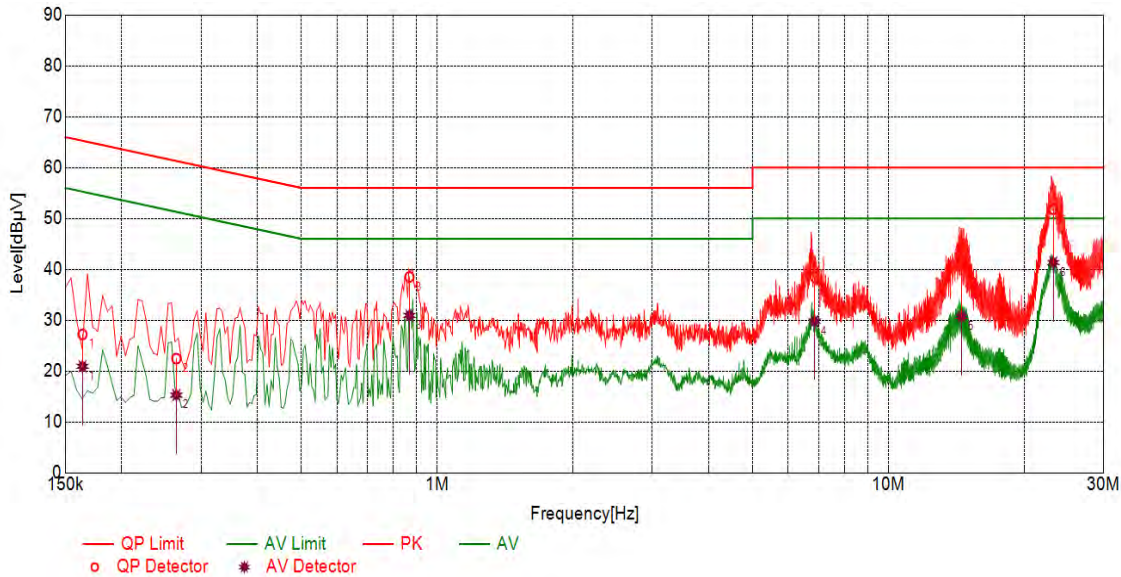


Measurement Data

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:



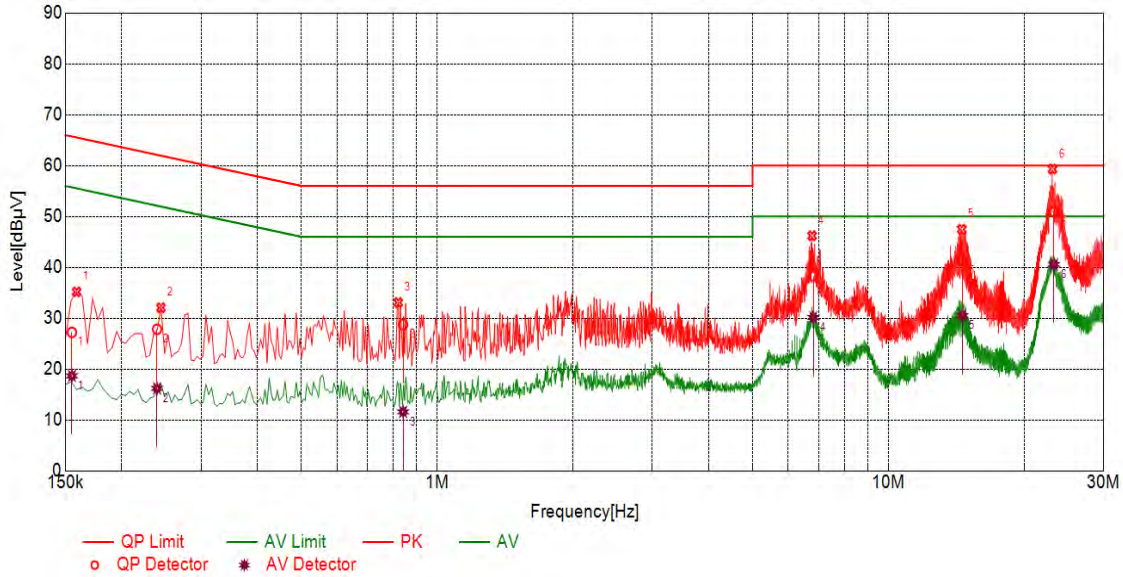
Test Graph

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]	Type
1	0.1638	10.10	27.22	65.27	38.05	20.94	55.27	34.33	L
2	0.2644	10.10	22.44	61.29	38.85	15.27	51.29	36.02	L
3	0.8683	10.10	38.50	56.00	17.50	30.94	46.00	15.06	L
4	6.8650	10.10	38.48	60.00	21.52	29.82	50.00	20.18	L
5	14.5293	10.11	41.38	60.00	18.62	30.72	50.00	19.28	L
6	23.2066	10.11	51.78	60.00	8.22	41.34	50.00	8.66	L



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Neutral Line:



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]	Type
1	0.1552	10.10	27.21	65.72	38.51	18.67	55.72	37.05	N
2	0.2396	10.10	27.82	62.11	34.29	16.20	52.11	35.91	N
3	0.8410	10.10	28.76	56.00	27.24	11.59	46.00	34.41	N
4	6.8207	10.10	38.25	60.00	21.75	30.15	50.00	19.85	N
5	14.5866	10.11	41.38	60.00	18.62	30.51	50.00	19.49	N
6	23.2908	10.11	50.95	60.00	9.05	40.58	50.00	9.42	N



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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	CH0, CH19, CH39	15.83
BLE_2M	CH0, CH19, CH39	8.75



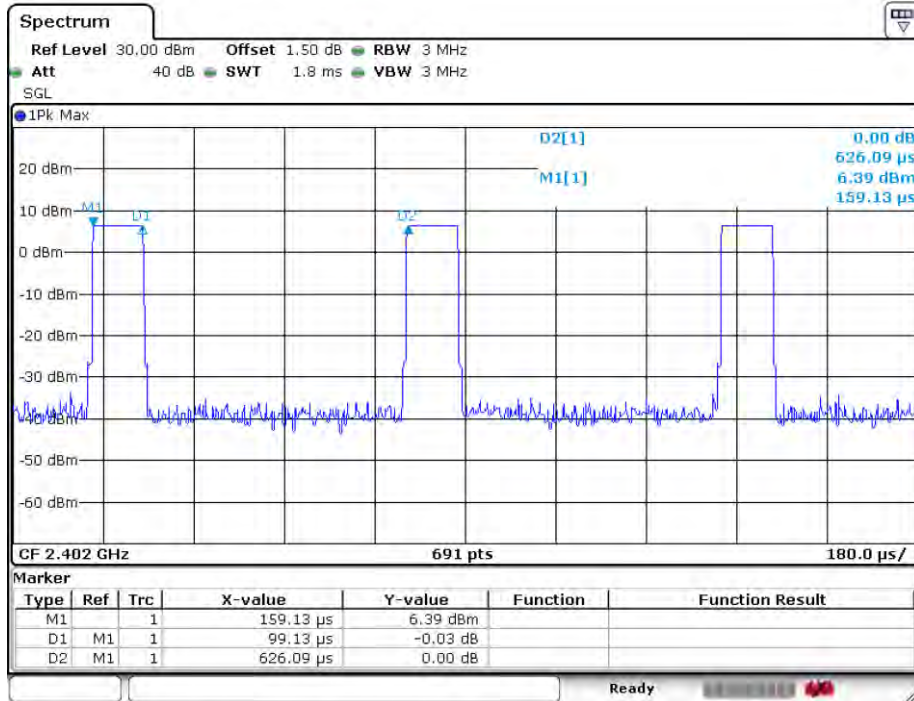
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4.3.2 Test Plots

4.3.2.1 ANT1

4.3.2.1.1 BLE_1M



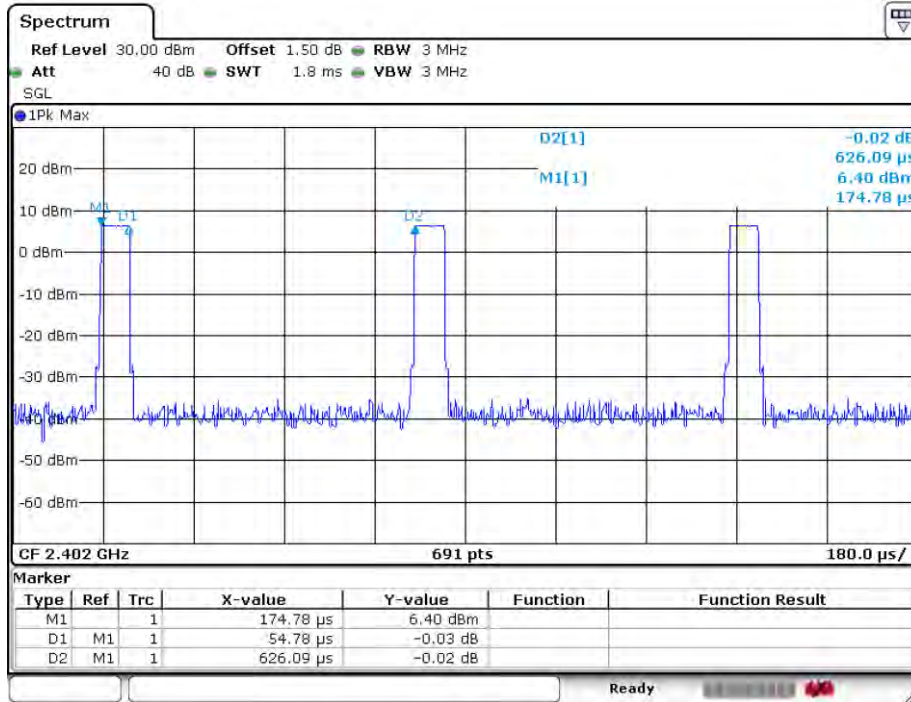
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4.3.2.1.2 BLE_2M



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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 5.10 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass

4.4.1 Test Results

Measurement Data of Peak Power:

GFSK_1M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.81	30.00	Pass
Middle	8.00	30.00	Pass
Highest	7.39	30.00	Pass

GFSK_2M mode			
Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.52	30.00	Pass
Middle	8.00	30.00	Pass
Highest	7.43	30.00	Pass



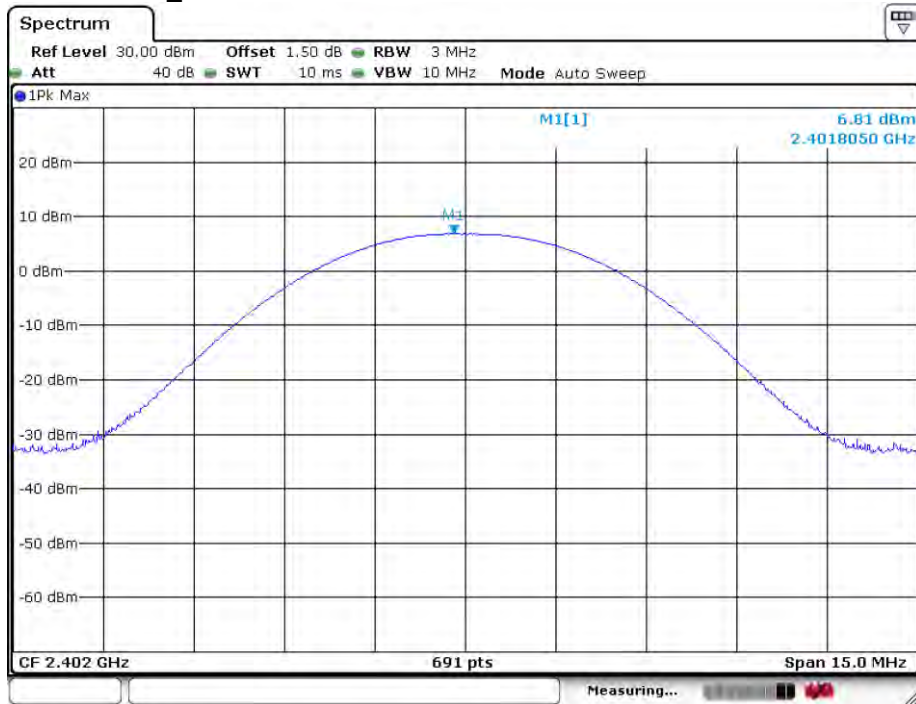
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4.4.2

Test Plots

4.4.2.1

GFSK 1M_Lowest Channel



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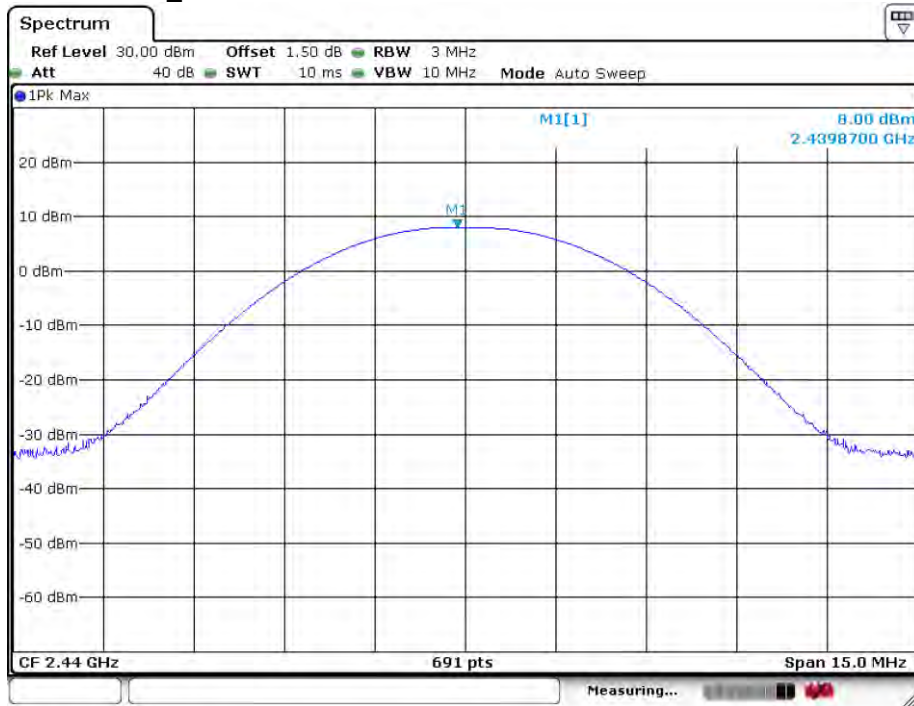


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4.4.2.2

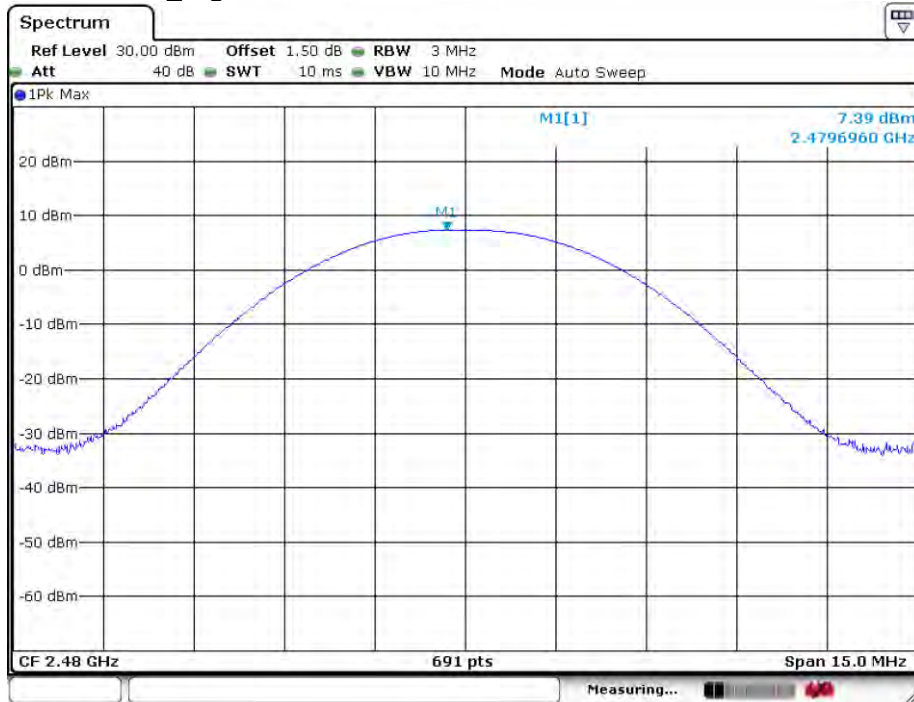
GFSK 1M_Middle Channel



Date: 28.DEC.2020 09:40:20

4.4.2.3

GFSK 1M_Highest Channel



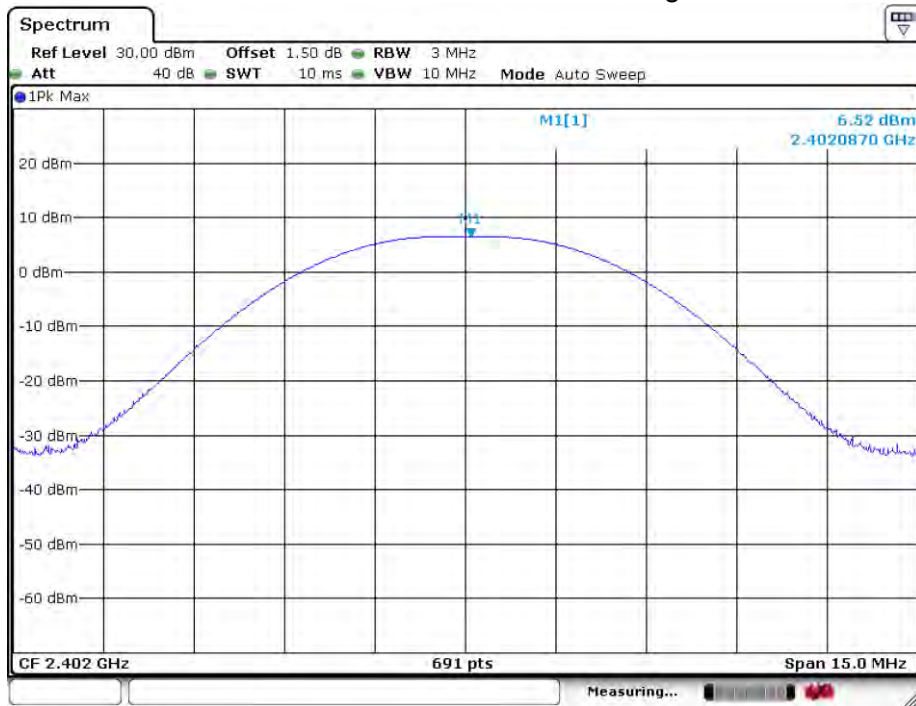
Date: 28.DEC.2020 09:40:42

4.4.2.4

GFSK 2M_Lowest Channel



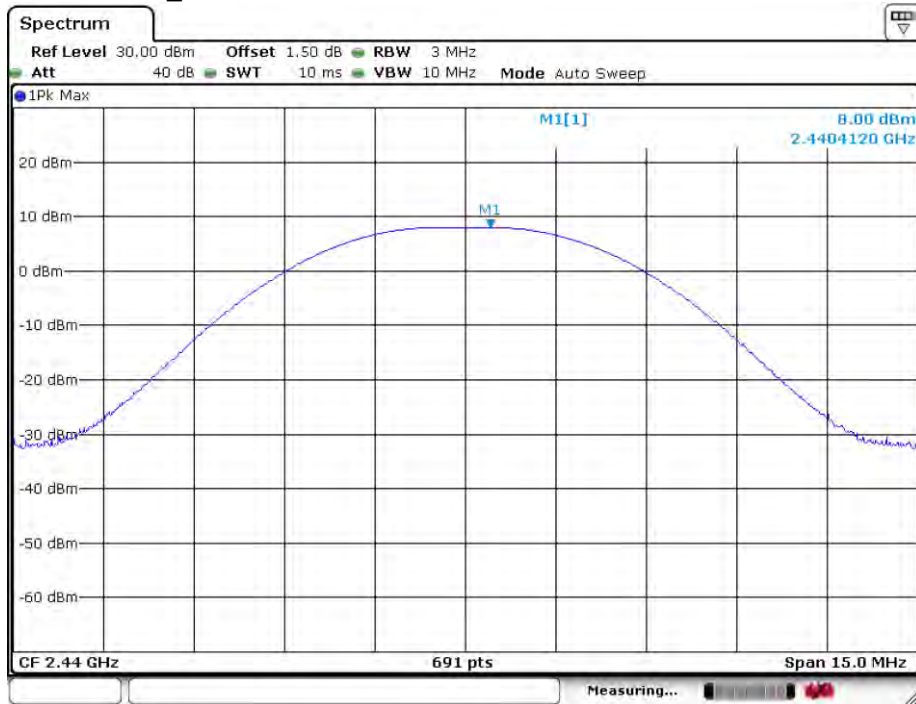
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4.4.2.5

GFSK 2M_Middle Channel



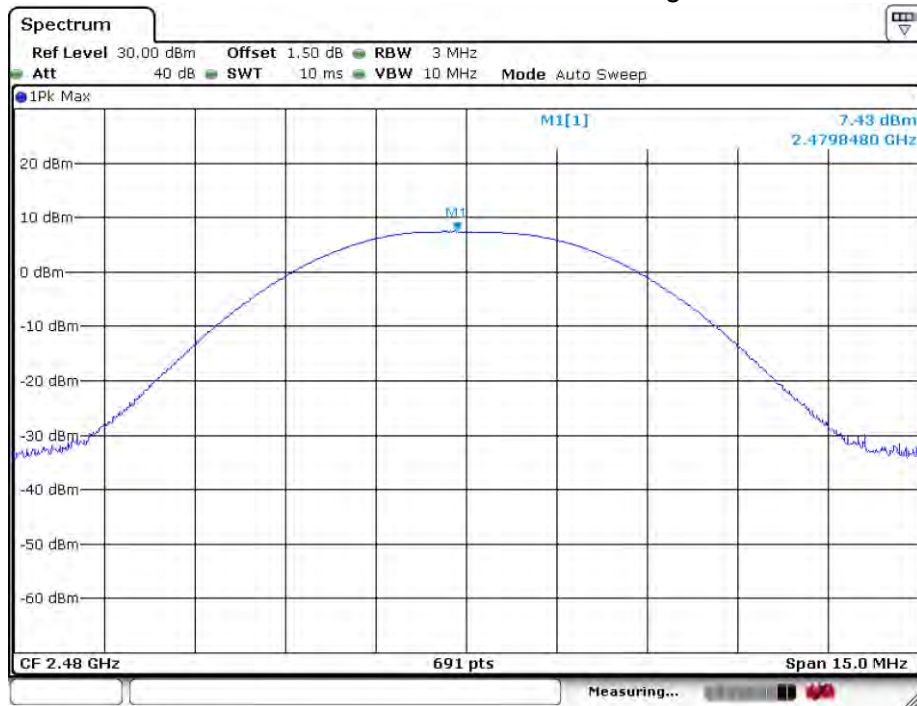
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4.4.2.6

GFSK 2M_Highest Channel



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4.5 DTS (6 dB) Bandwidth & 99% Occupied 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:	≥ 500 kHz
Test Results:	Pass

4.5.1 Test Results

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_1M	Lowest	1.04	0.68	≥500	Pass
	Middle	1.05	0.68	≥500	Pass
	Highest	1.03	0.69	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	2.09	1.20	≥500	Pass
	Middle	2.09	1.21	≥500	Pass
	Highest	2.09	1.22	≥500	Pass



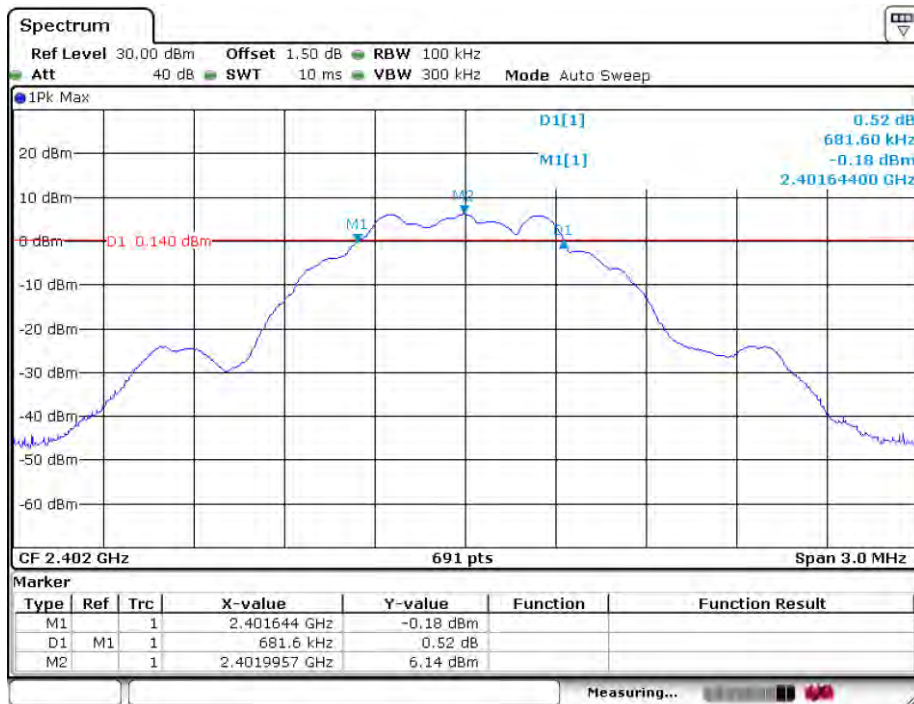
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4.5.2
4.5.2.1

Test Plots GFSK 1M_Lowest Channel



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4.5.2.2

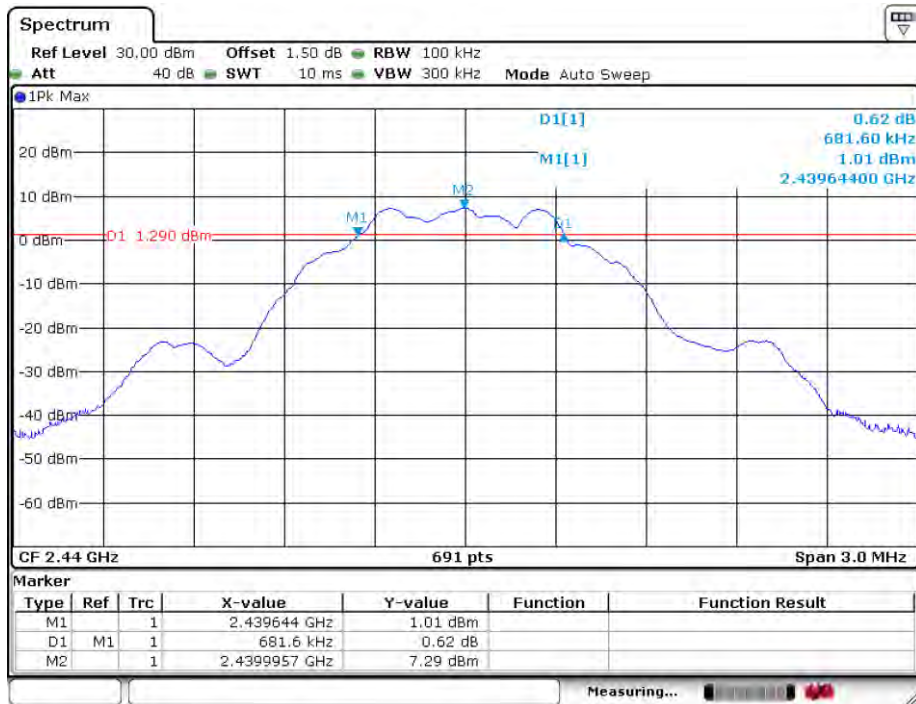
GFSK 1M_Middle Channel



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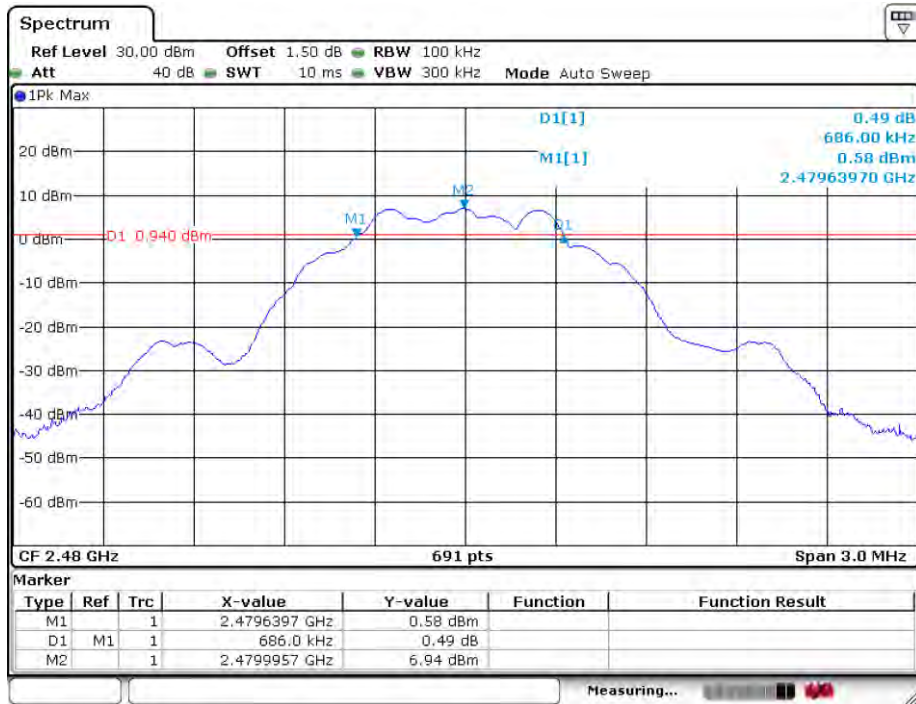
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4.5.2.3

GFSK 1M_Highest Channel



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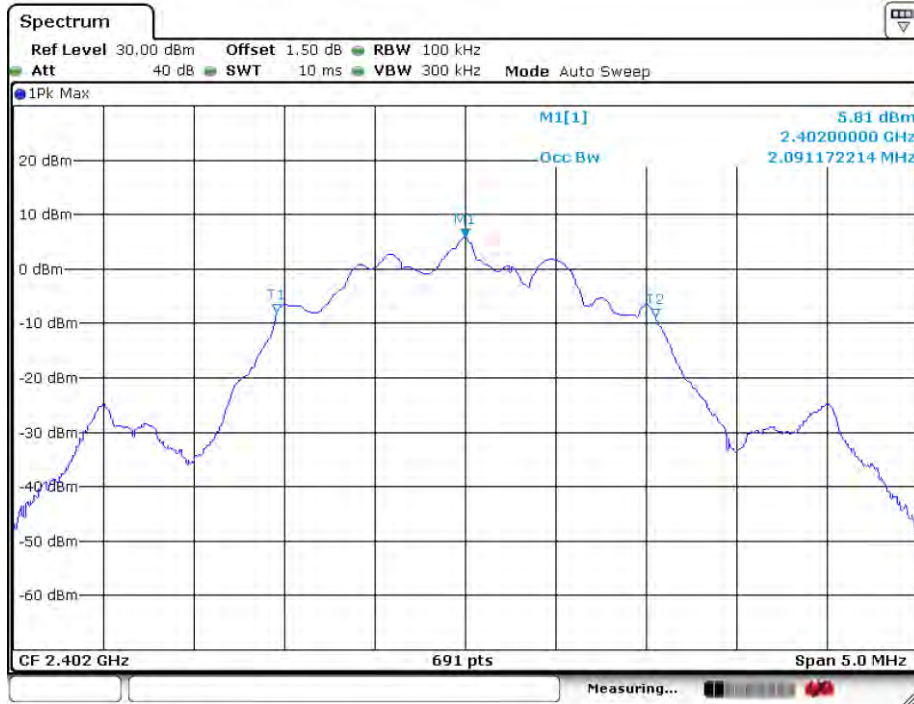
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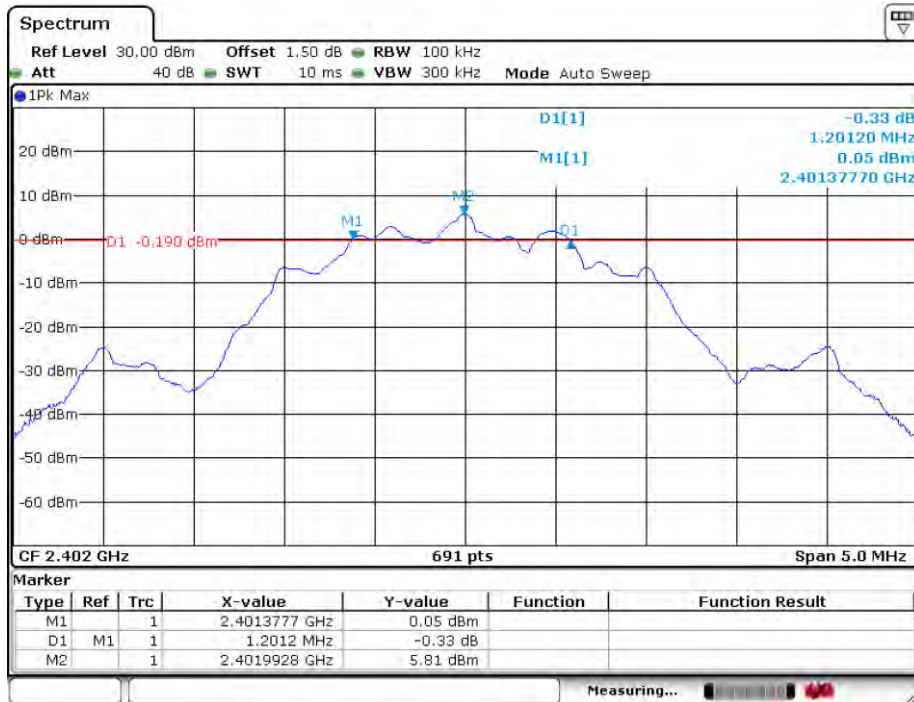
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4.5.2.4

GFSK 2M_Lowest Channel



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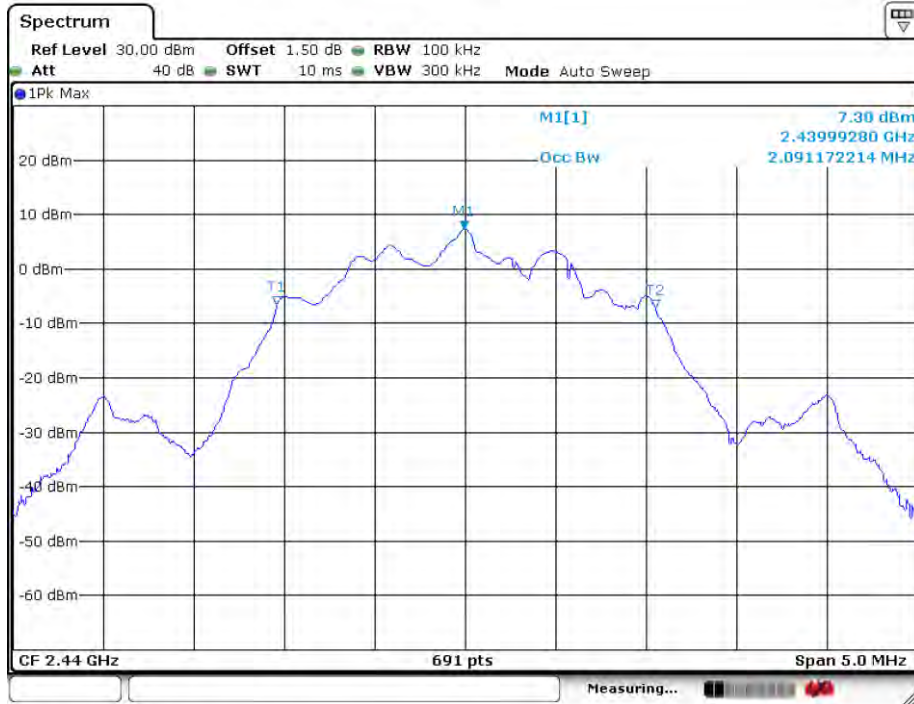
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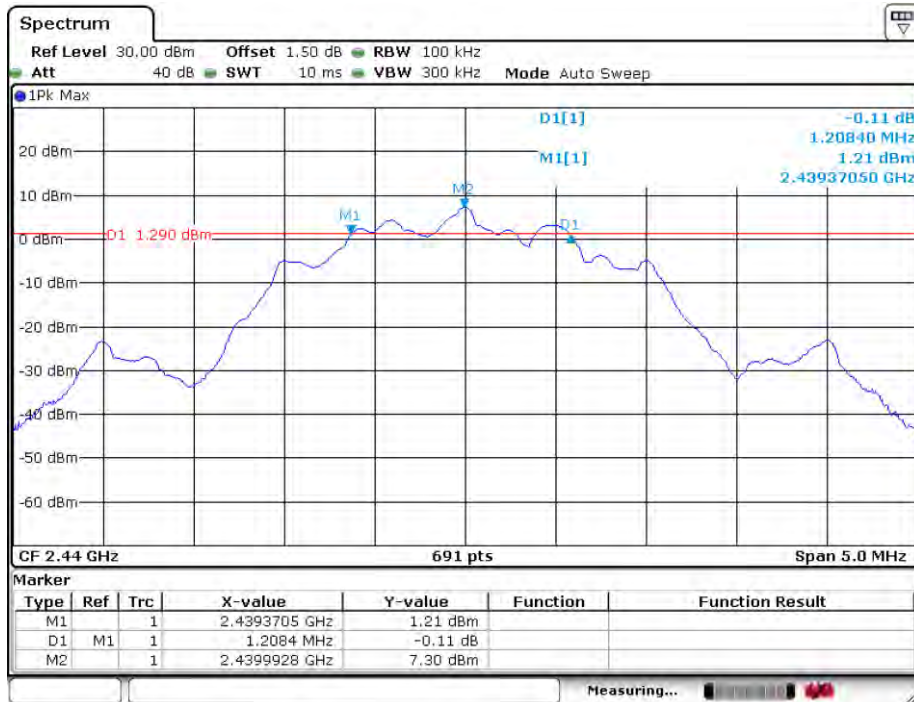
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4.5.2.5

GFSK 2M_Middle Channel



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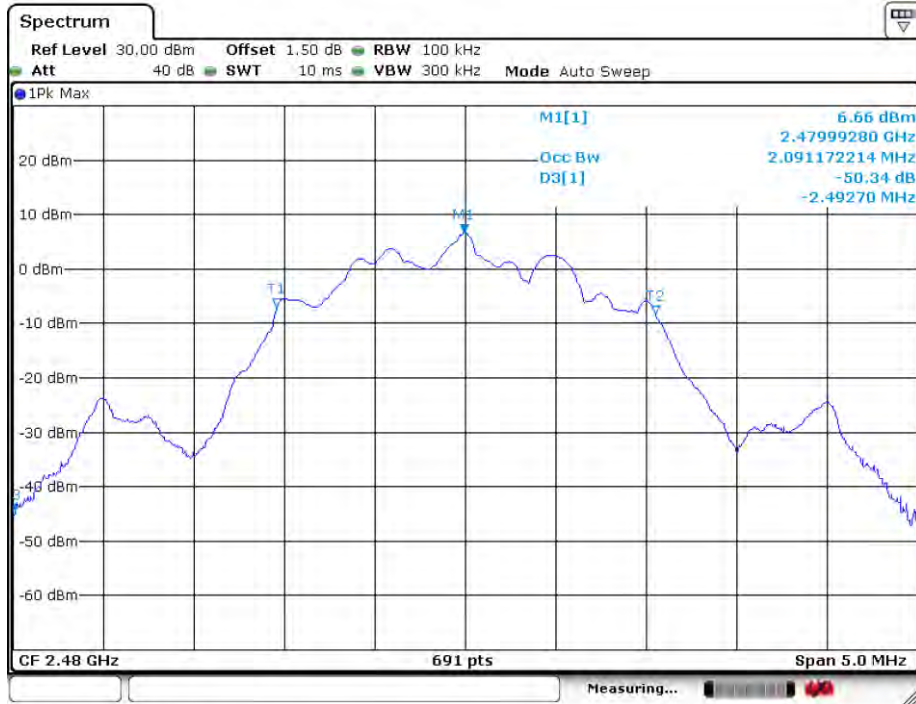
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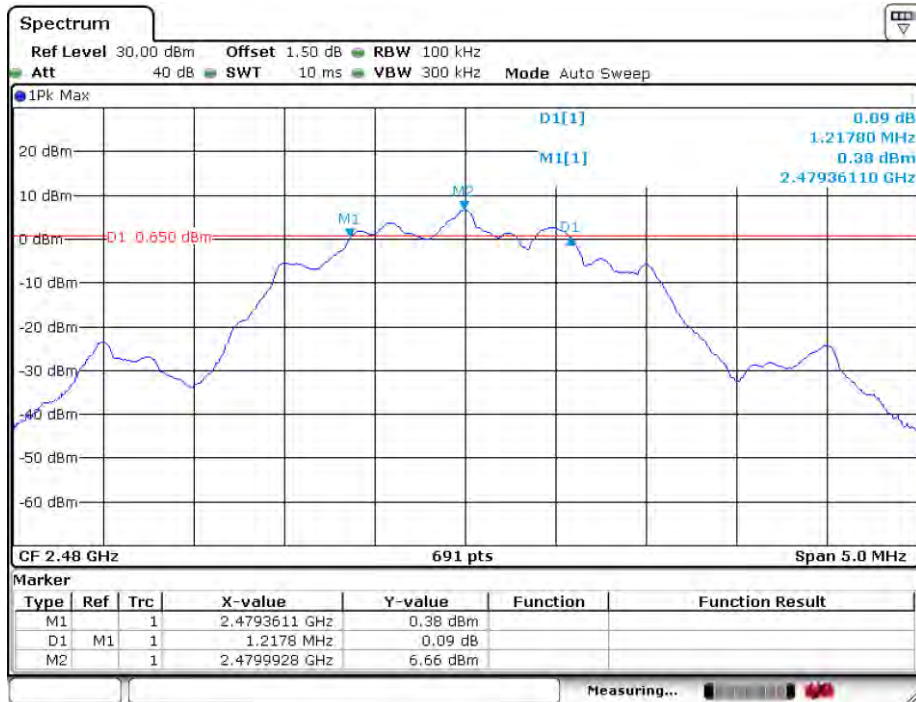
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4.5.2.6

GFSK 2M_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

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-11.32	≤8.00	Pass
	Middle	-10.13	≤8.00	Pass
	Highest	-10.54	≤8.00	Pass

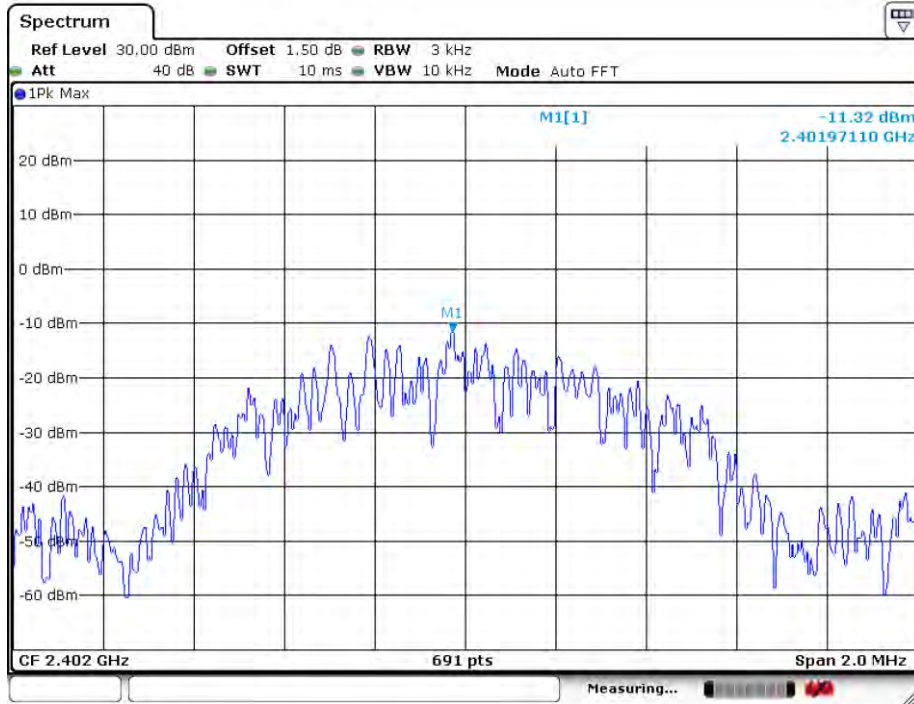
Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-16.74	≤8.00	Pass
	Middle	-15.23	≤8.00	Pass
	Highest	-15.87	≤8.00	Pass



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4.6.2
4.6.2.1

Test Plots
GFSK 1M_Lowest Channel



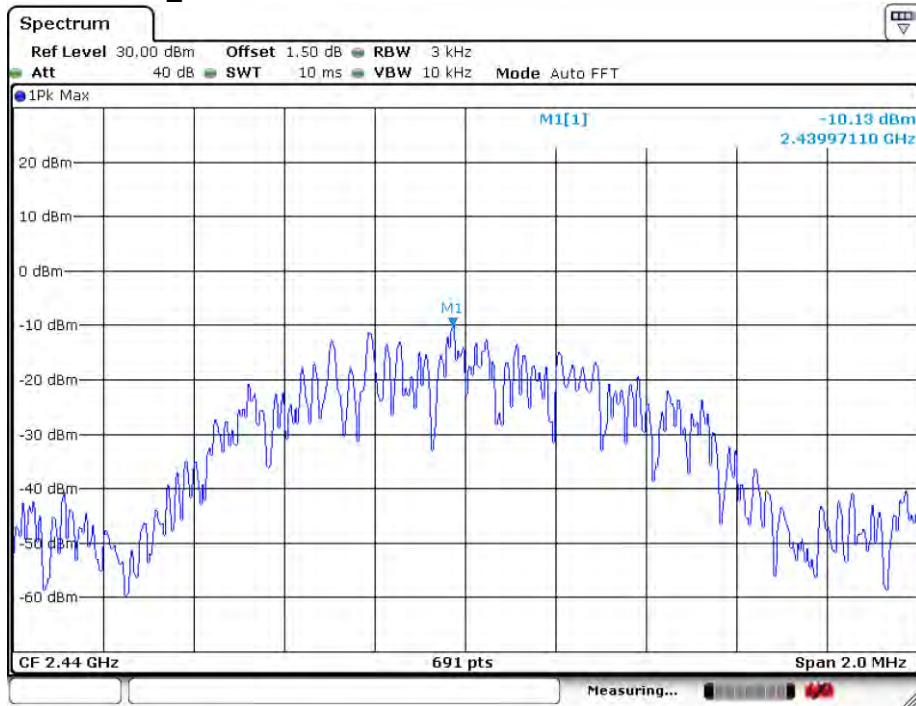
Date: 28.DEC.2020 09:36:32



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4.6.2.2

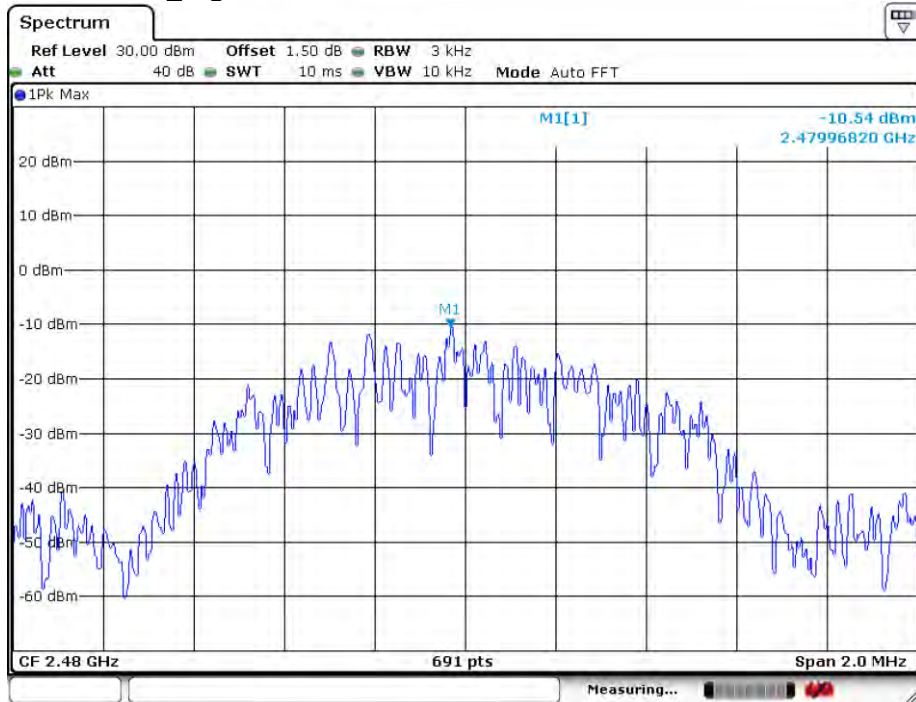
GFSK 1M_Middle Channel



Date: 28.DEC.2020 09:40:04

4.6.2.3

GFSK 1M_Highest Channel



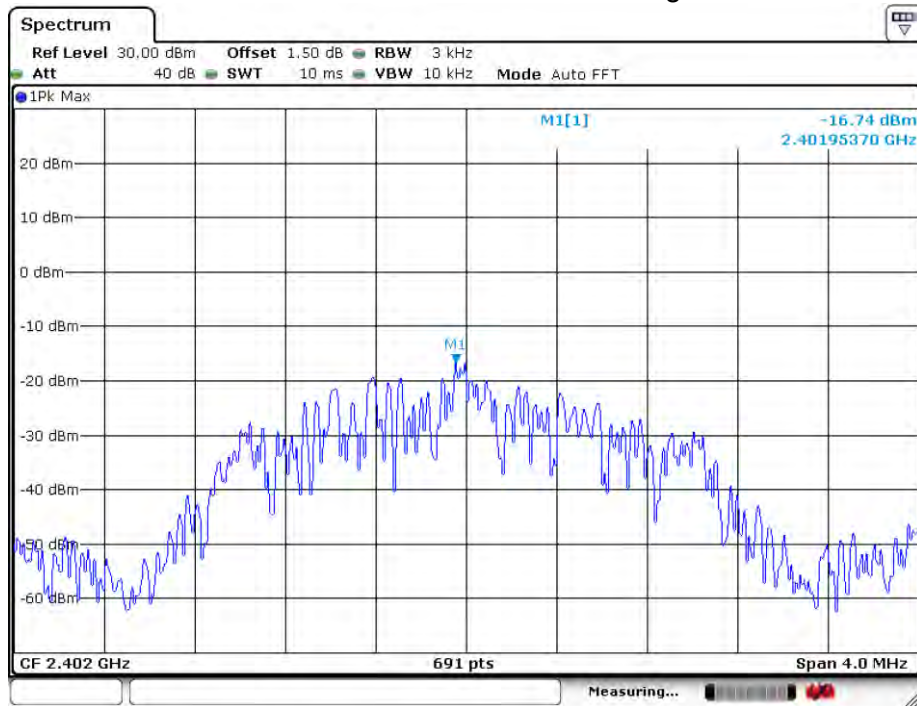
Date: 28.DEC.2020 09:51:06

4.6.2.4

GFSK 2M_Lowest Channel



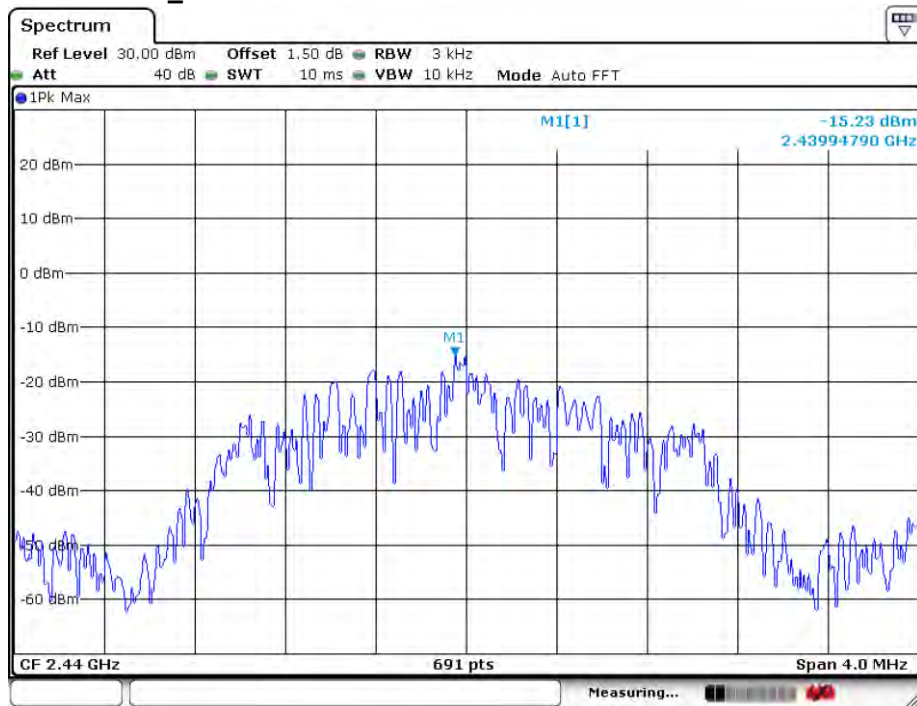
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4.6.2.5

GFSK 2M_Middle Channel



Date: 28.DEC.2020 10:00:05

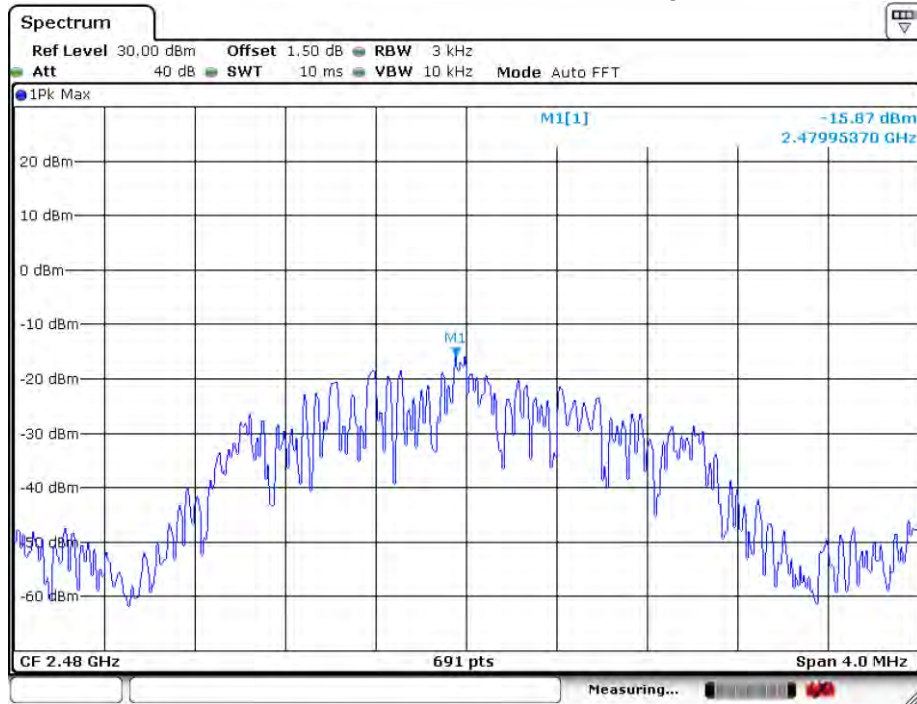
4.6.2.6

GFSK 2M_Highest Channel



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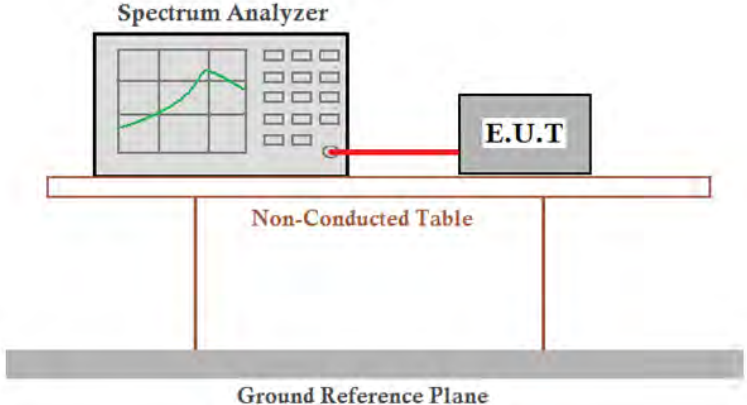
Date: 28.DEC.2020 09:58:19



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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 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



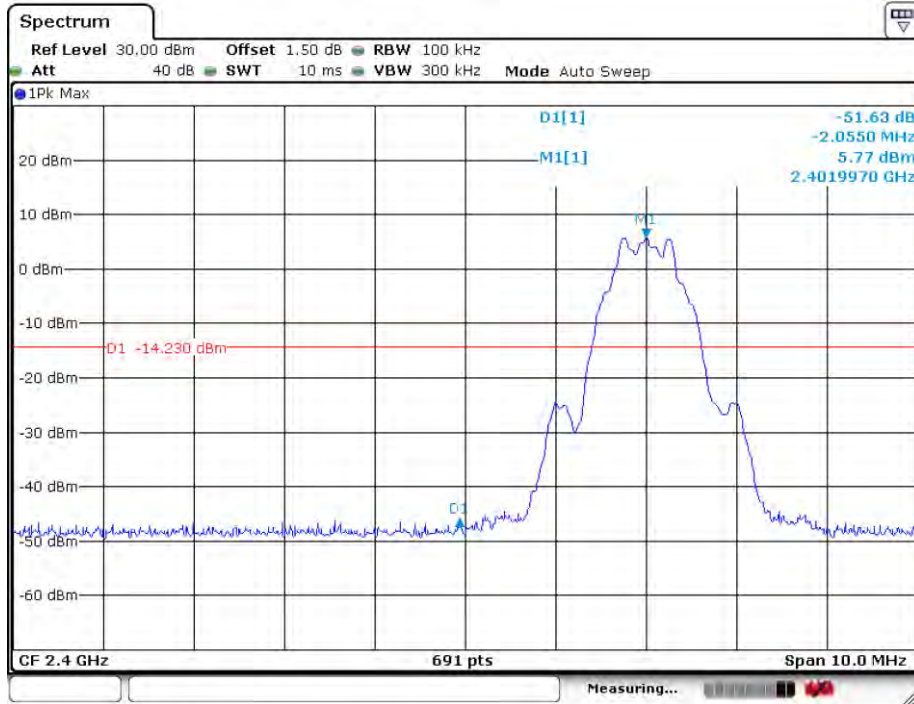
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4.7.1

Test Plots

4.7.1.1

GFSK 1M_Lowest Channel



Date: 28.DEC.2020 09:38:13

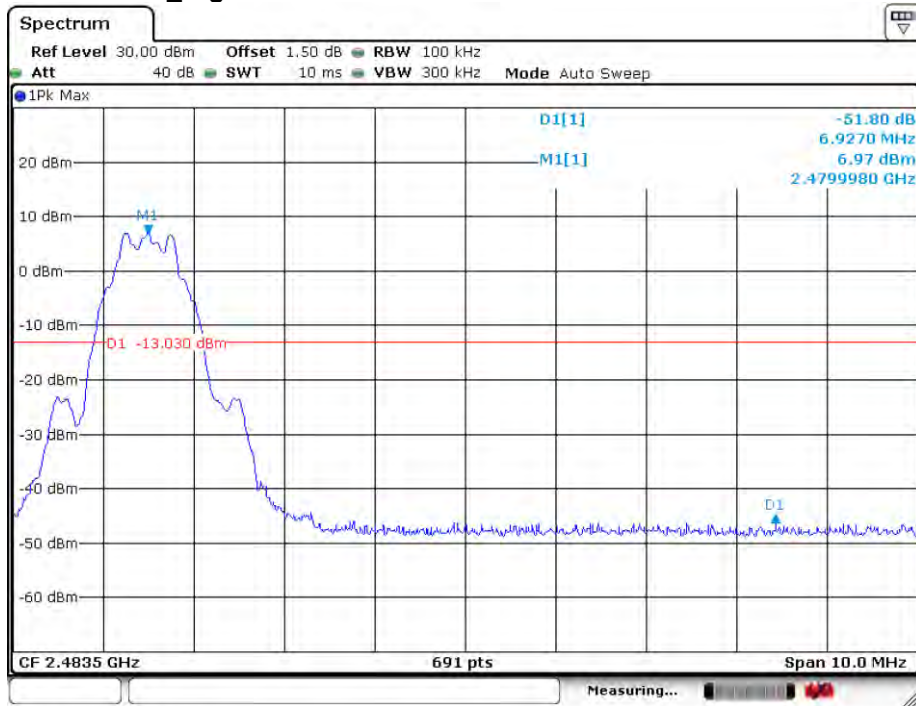


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4.7.1.2

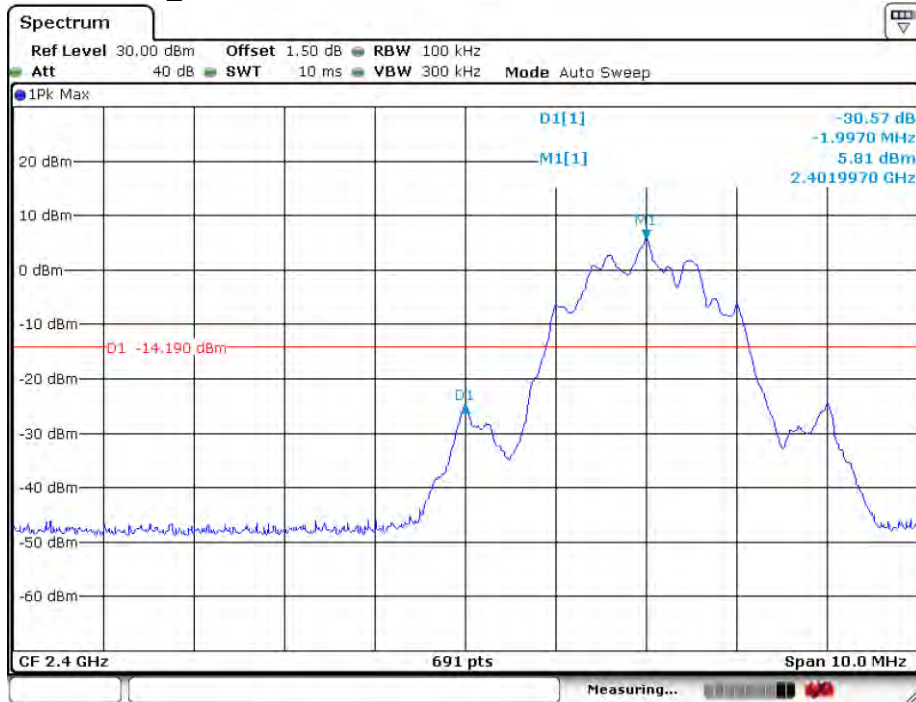
GFSK 1M_Highest Channel



Date: 28.DEC.2020 09:52:39

4.7.1.3

GFSK 2M_Lowest Channel



Date: 28.DEC.2020 10:04:08

4.7.1.4

GFSK 2M_Highest Channel



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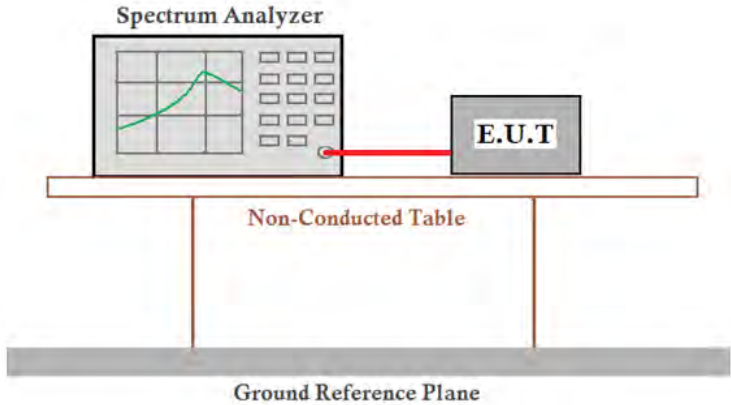
Date: 28.DEC.2020 09:57:44



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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:	 <p>The diagram illustrates the test setup for RF conducted spurious emissions. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</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



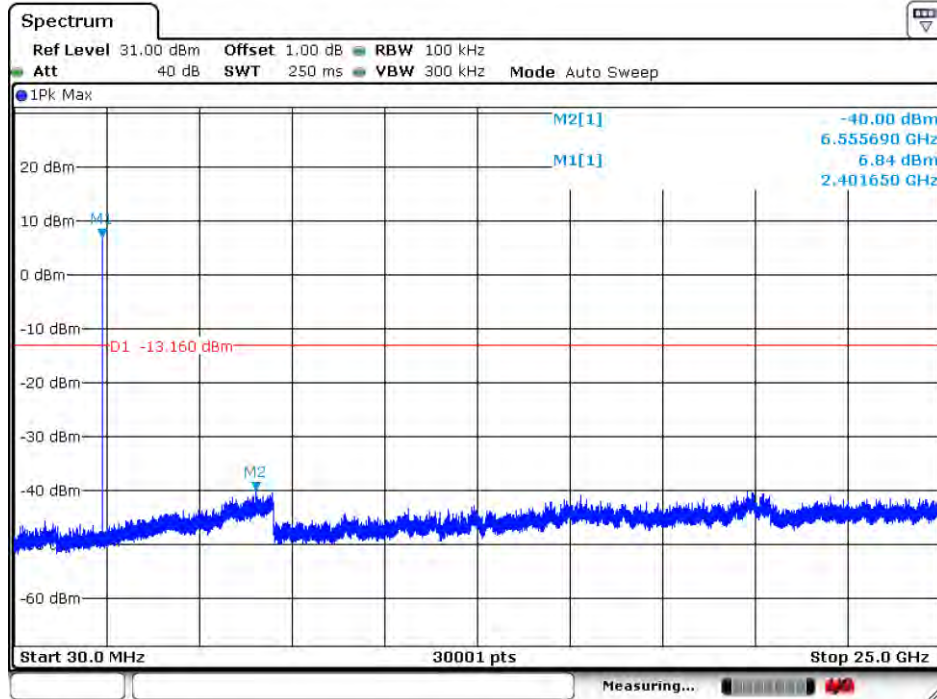
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4.8.1

Test Plots

4.8.1.1

GFSK 1M_Lowest Channel



Date: 7.DEC.2020 10:54:39

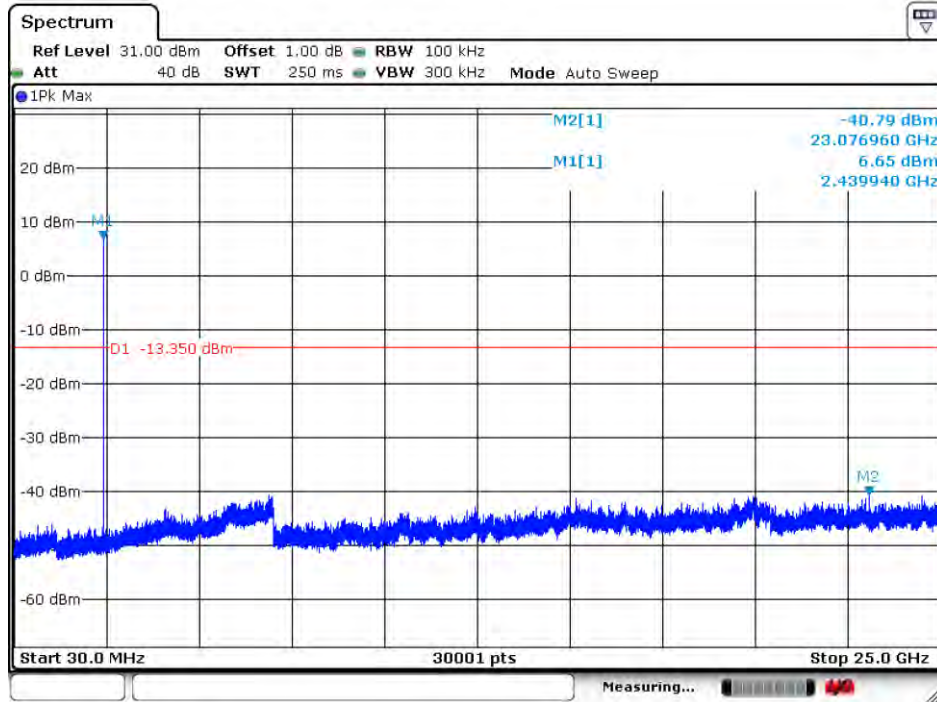


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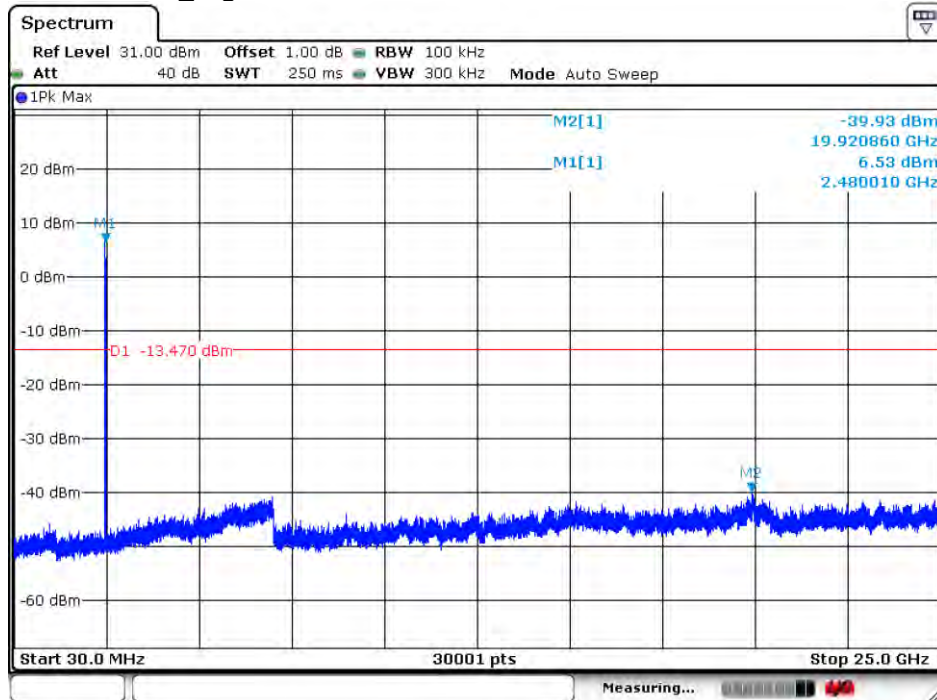
4.8.1.2

GFSK 1M_Middle Channel



4.8.1.3

GFSK 1M_Highest Channel



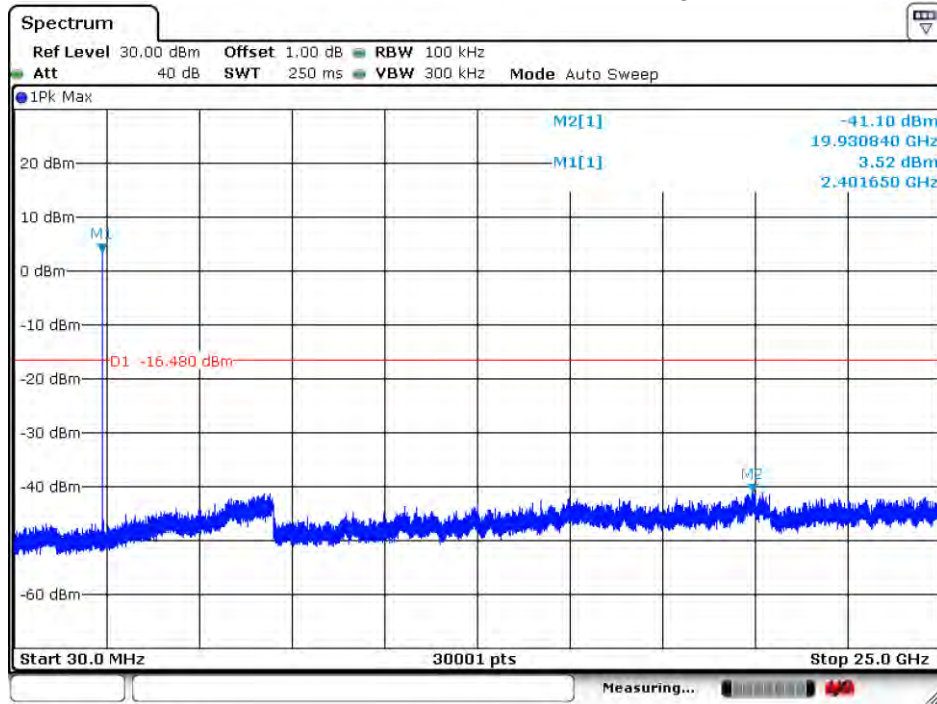
4.8.1.4

GFSK 2M_Lowest Channel



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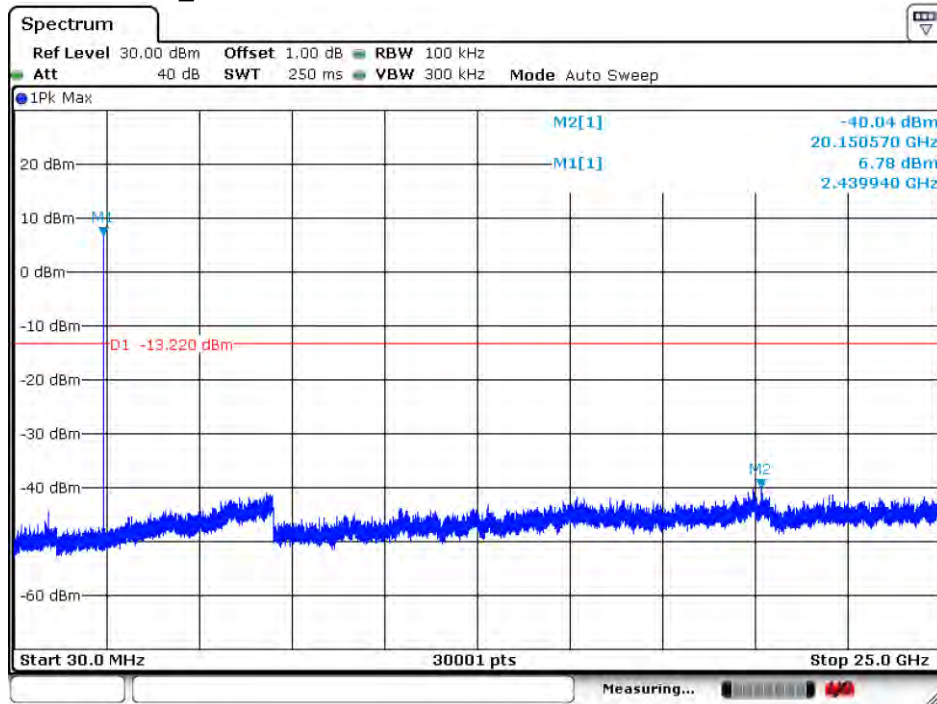
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Date: 7.DEC.2020 14:53:06

4.8.1.5

GFSK 2M_Middle Channel



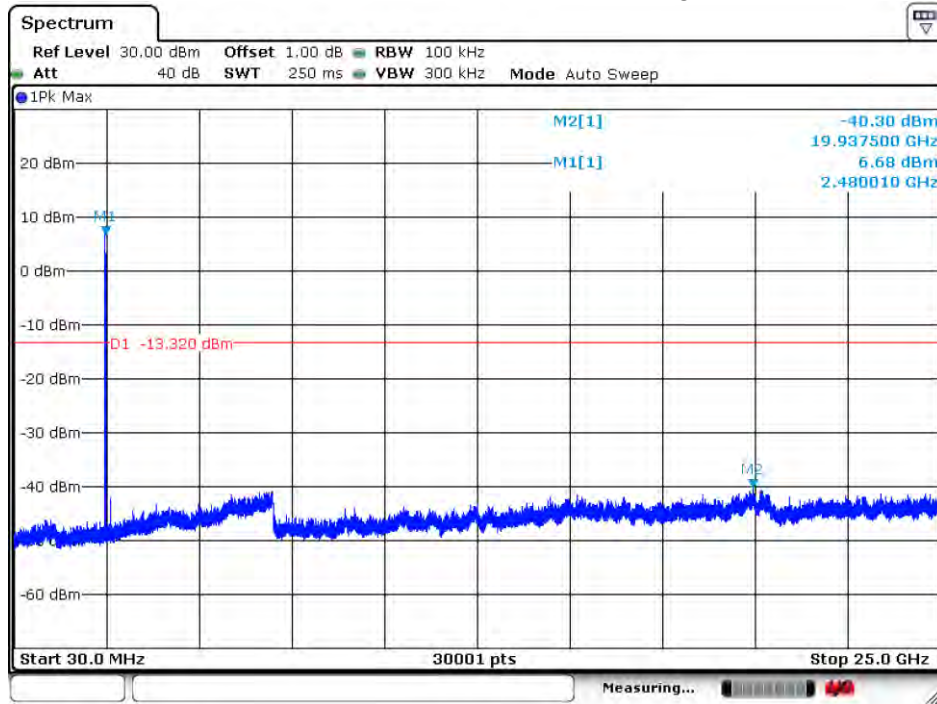
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4.8.1.6

GFSK 2M_Highest Channel



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Date: 7.DEC.2020 14:51:10

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)				
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	120kHz	300kHz	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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<p>Test Setup:</p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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 On time = $N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n$ Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle)</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

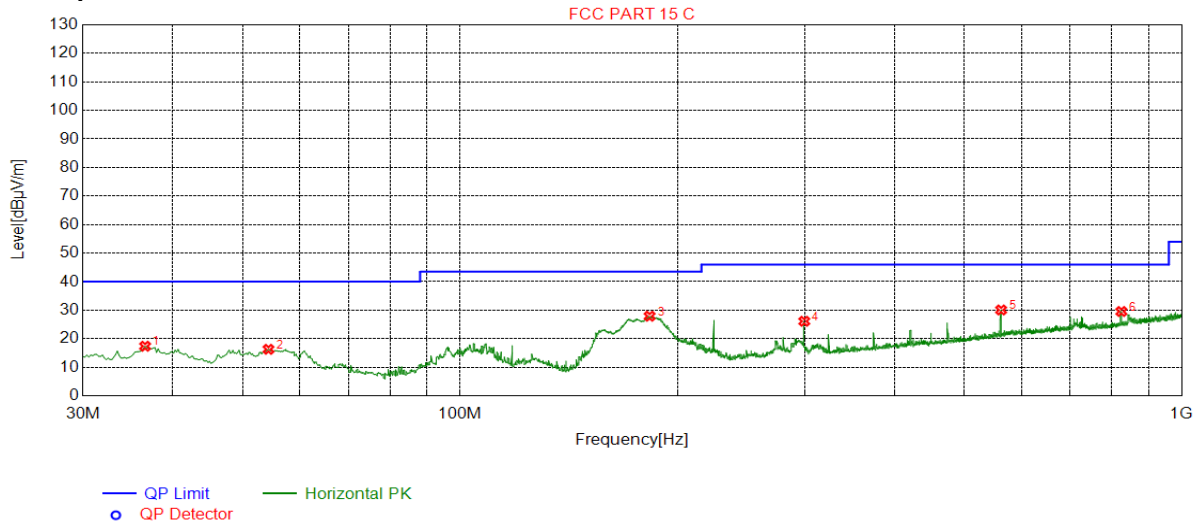


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4.9.1 Radiated Emission below 1GHz

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	36.5973	17.40	40.00	22.60	182	238	Horizontal
2	54.2549	16.32	40.00	23.68	101	132	Horizontal
3	183.0966	27.92	43.50	15.58	215	264	Horizontal
4	299.9080	26.14	46.00	19.86	229	105	Horizontal
5	562.0544	30.10	46.00	15.90	197	329	Horizontal
6	824.9770	29.57	46.00	16.43	207	249	Horizontal

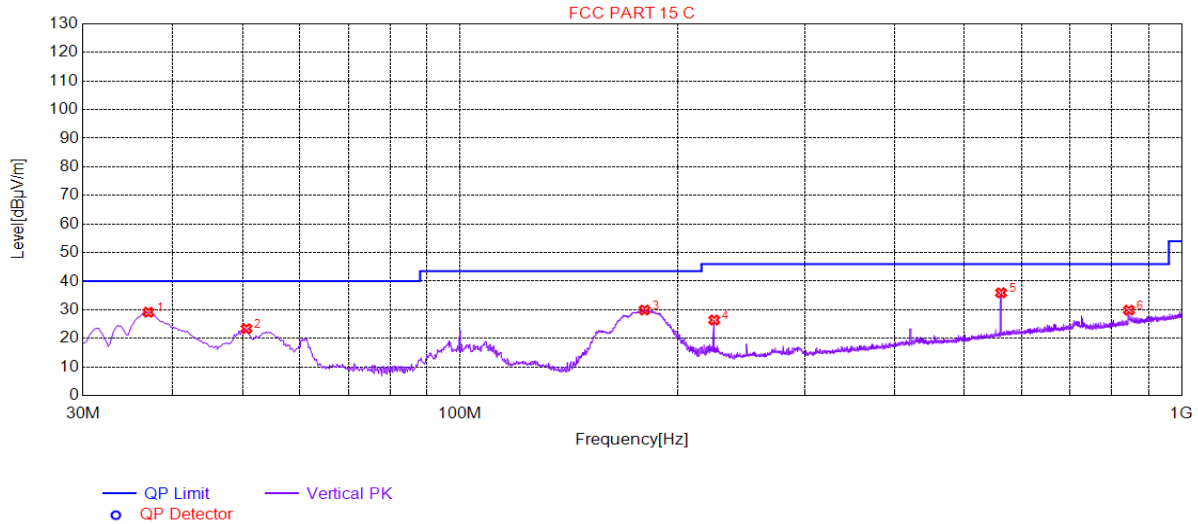
Final Data List



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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	36.9854	29.16	40.00	10.84	243	358	Vertical
2	50.5681	23.41	40.00	16.59	268	352	Vertical
3	180.1860	29.93	43.50	13.57	212	14	Vertical
4	225.0090	26.43	46.00	19.57	257	288	Vertical
5	562.0544	35.94	46.00	10.06	205	359	Vertical
6	845.1570	29.89	46.00	16.11	288	73	Vertical

Final Data List



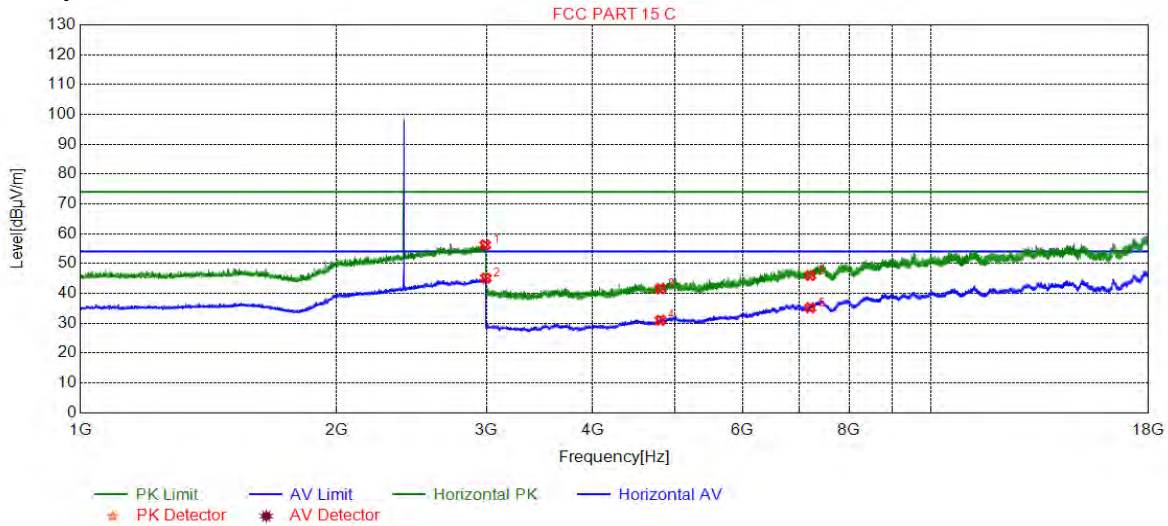
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4.9.2 Transmitter Emission above 1GHz 4.9.2.1 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2990.49	56.21	10.58	74.00	17.79	199	282	Horizontal
2	2995.99	45.07	10.71	54.00	8.93	249	92	Horizontal
3	4804.00	41.51	-17.18	74.00	32.49	140	123	Horizontal
4	4804.00	30.99	-17.18	54.00	23.01	155	295	Horizontal
5	7206.00	45.96	-9.48	74.00	28.04	196	123	Horizontal
6	7206.00	35.18	-9.48	54.00	18.82	152	37	Horizontal

Final Data List

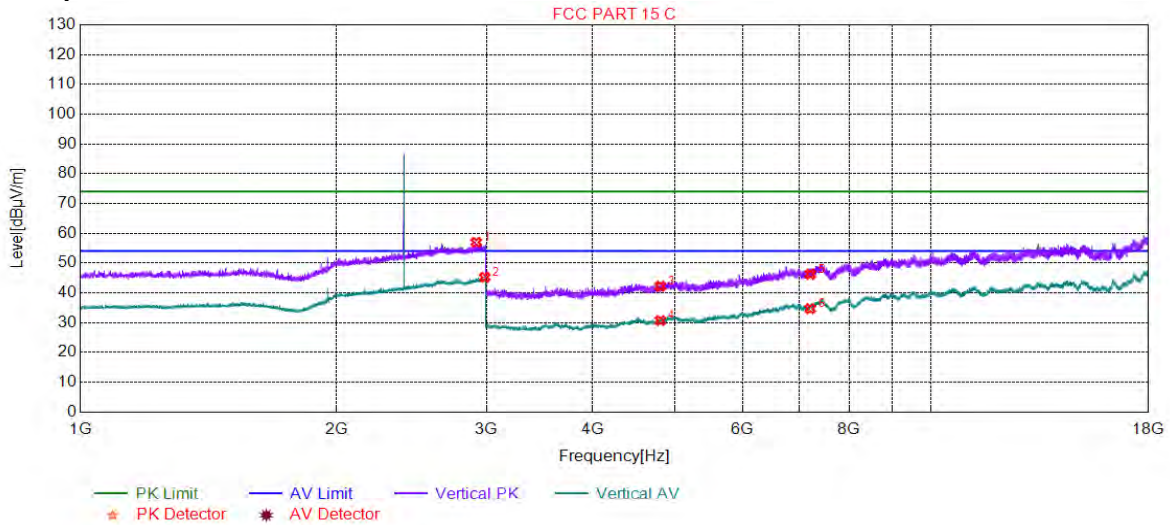


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4.9.2.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2918.47	56.96	10.45	74.00	17.04	208	330	Vertical
2	2986.99	45.23	10.59	54.00	8.77	169	304	Vertical
3	4804.00	42.21	-17.18	74.00	31.79	185	100	Vertical
4	4804.00	30.68	-17.18	54.00	23.32	243	203	Vertical
5	7206.00	46.23	-9.48	74.00	27.77	185	83	Vertical
6	7206.00	34.64	-9.48	54.00	19.36	289	323	Vertical

Final Data List



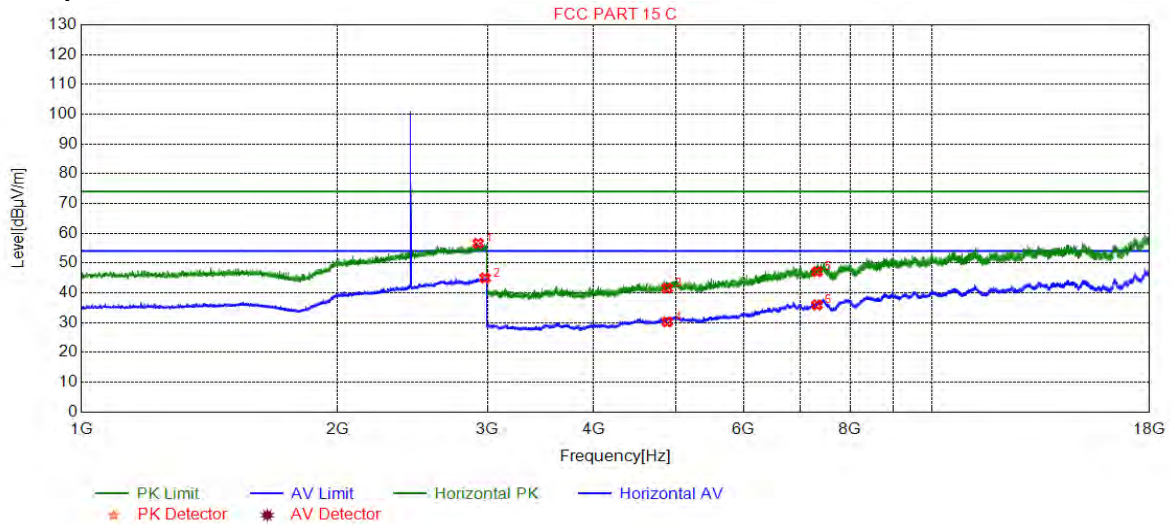
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4.9.2.3

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	2925.48	56.61	10.66	74.00	17.39	163	32	Horizontal
2	2981.49	44.96	10.62	54.00	9.04	226	168	Horizontal
3	4880.00	41.54	-16.81	74.00	32.46	162	28	Horizontal
4	4880.00	30.22	-16.81	54.00	23.78	206	152	Horizontal
5	7320.00	47.06	-9.28	74.00	26.94	164	135	Horizontal
6	7320.00	35.91	-9.28	54.00	18.09	152	115	Horizontal

Final Data List

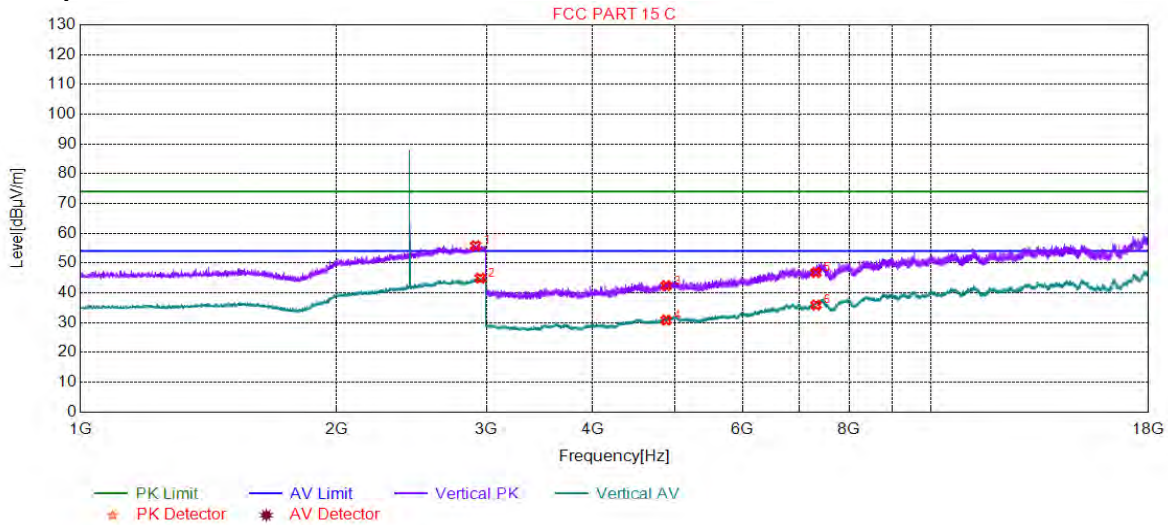


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4.9.2.4 BLE_1M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2914.97	55.82	10.54	74.00	18.18	213	153	Vertical
2	2951.48	44.90	10.69	54.00	9.10	219	190	Vertical
3	4880.00	42.37	-16.81	74.00	31.63	245	168	Vertical
4	4880.00	30.80	-16.81	54.00	23.20	169	219	Vertical
5	7320.00	46.80	-9.28	74.00	27.20	265	236	Vertical
6	7320.00	35.87	-9.28	54.00	18.13	226	253	Vertical

Final Data List

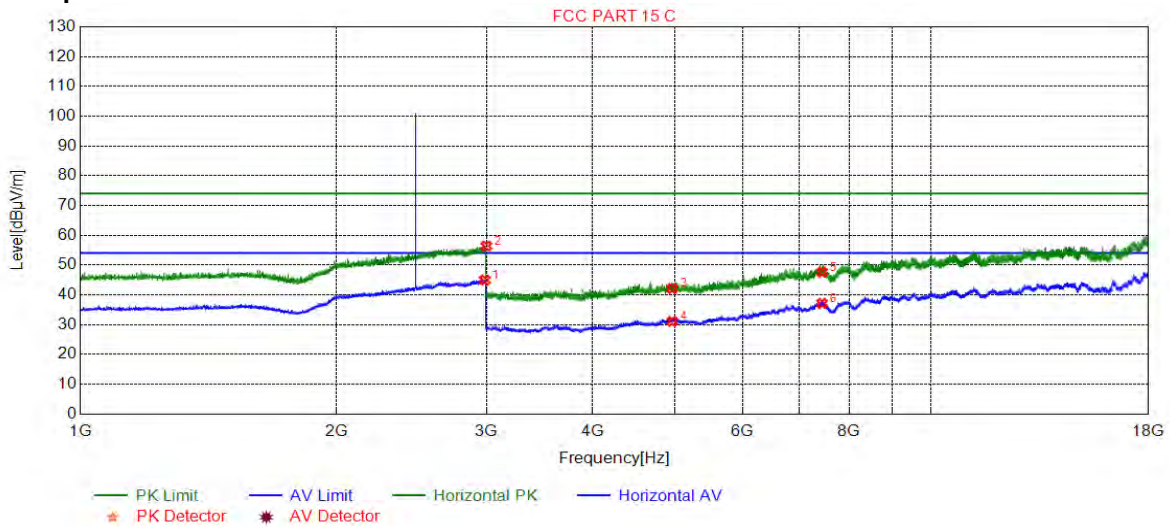


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4.9.2.5

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	2987.99	44.96	10.58	54.00	9.04	171	59	Horizontal
2	3000.00	56.37	10.78	74.00	17.63	115	226	Horizontal
3	4960.00	42.08	-16.28	74.00	31.92	138	312	Horizontal
4	4960.00	31.05	-16.28	54.00	22.95	213	295	Horizontal
5	7440.00	47.59	-8.83	74.00	26.41	127	158	Horizontal
6	7440.00	37.11	-8.83	54.00	16.89	117	244	Horizontal

Final Data List



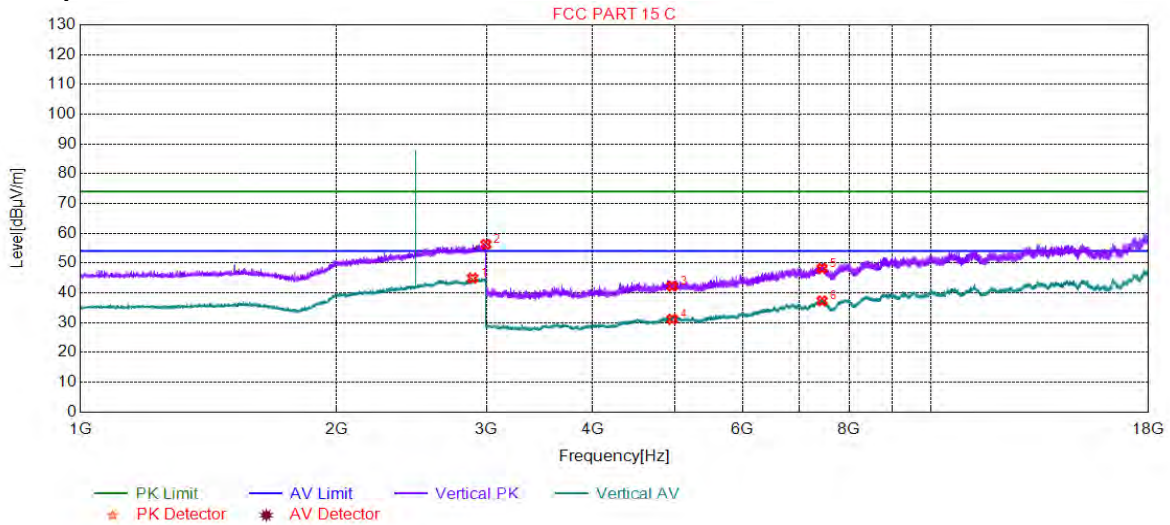
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4.9.2.6

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	2890.47	44.90	10.41	54.00	9.10	251	135	Vertical
2	2995.99	56.26	10.71	74.00	17.74	213	254	Vertical
3	4960.00	42.20	-16.28	74.00	31.80	190	357	Vertical
4	4960.00	31.15	-16.28	54.00	22.85	227	340	Vertical
5	7440.00	48.17	-8.83	74.00	25.83	168	99	Vertical
6	7440.00	37.26	-8.83	54.00	16.74	246	357	Vertical

Final Data List

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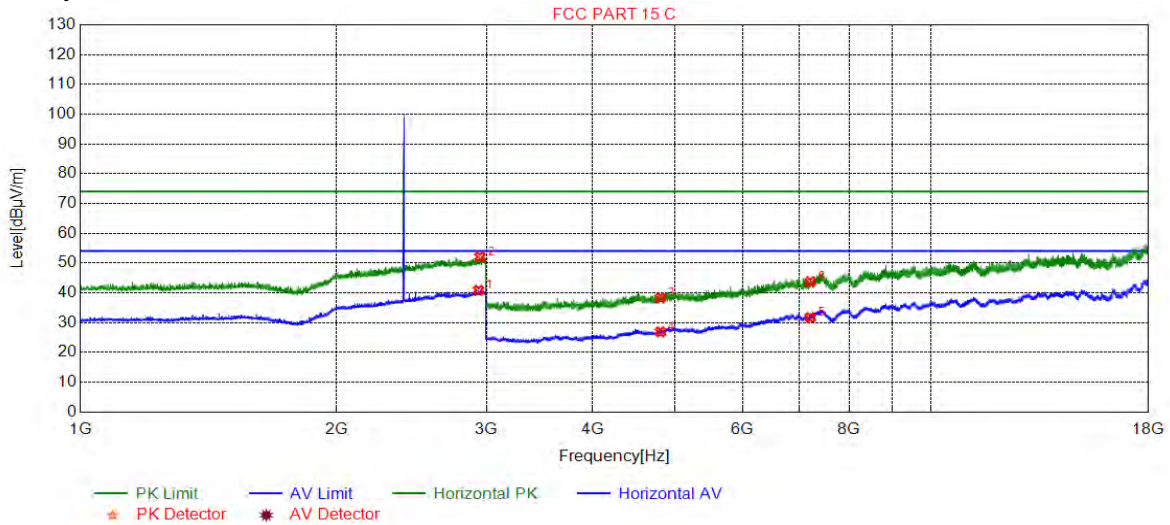


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4.9.2.7 BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2937.48	40.83	10.56	54.00	13.17	173	43	Horizontal
2	2948.48	52.06	10.66	74.00	21.94	129	158	Horizontal
3	4804.00	38.27	-17.18	74.00	35.73	218	209	Horizontal
4	4804.00	26.87	-17.18	54.00	27.13	230	19	Horizontal
5	7206.00	31.68	-9.48	54.00	22.32	243	243	Horizontal
6	7206.00	43.69	-9.48	74.00	30.31	183	36	Horizontal

Final Data List



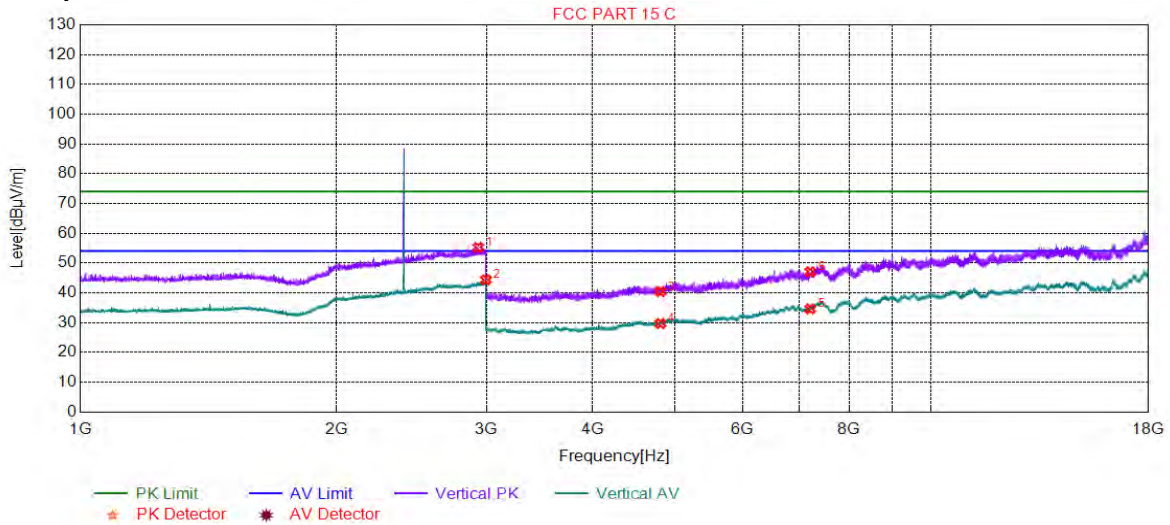
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4.9.2.8 BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2934.48	55.25	10.63	74.00	18.75	281	14	Vertical
2	2996.49	44.34	10.72	54.00	9.66	199	304	Vertical
3	4804.00	40.40	-17.18	74.00	33.60	248	359	Vertical
4	4804.00	29.68	-17.18	54.00	24.32	163	359	Vertical
5	7206.00	34.58	-9.48	54.00	19.42	286	152	Vertical
6	7206.00	47.03	-9.48	74.00	26.97	199	186	Vertical

Final Data List

(This section is intentionally left blank in the provided image.)



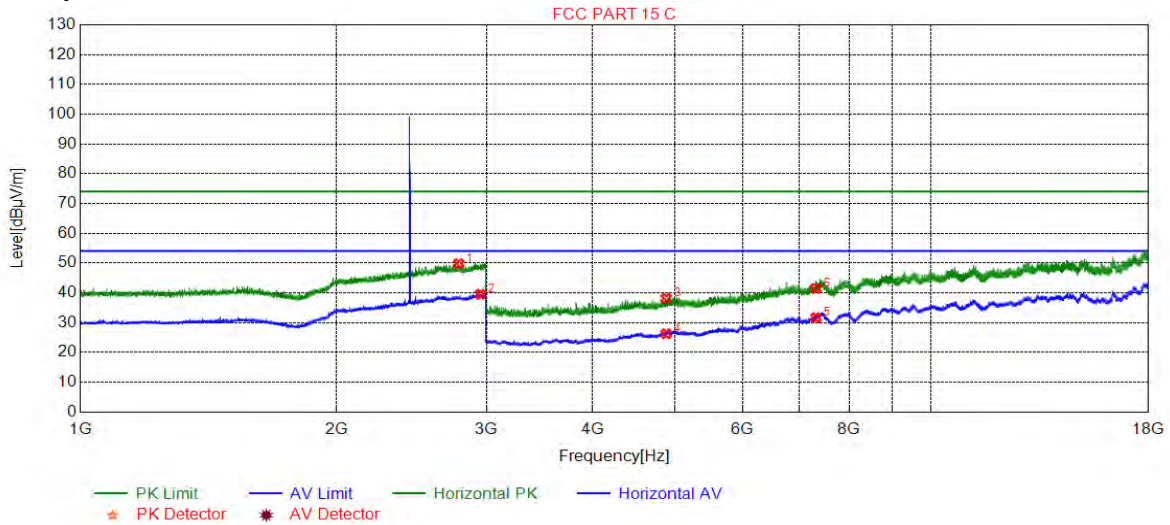
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4.9.2.9 BLE_2M_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2784.44	49.80	9.83	74.00	24.20	173	326	Horizontal
2	2951.98	39.50	10.70	54.00	14.50	127	300	Horizontal
3	4880.00	38.14	-16.81	74.00	35.86	243	34	Horizontal
4	4880.00	26.25	-16.81	54.00	27.75	160	121	Horizontal
5	7320.00	31.65	-9.28	54.00	22.35	148	52	Horizontal
6	7320.00	41.45	-9.28	74.00	32.55	157	69	Horizontal

Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2784.44	49.80	9.83	74.00	24.20	173	326	Horizontal
2	2951.98	39.50	10.70	54.00	14.50	127	300	Horizontal
3	4880.00	38.14	-16.81	74.00	35.86	243	34	Horizontal
4	4880.00	26.25	-16.81	54.00	27.75	160	121	Horizontal
5	7320.00	31.65	-9.28	54.00	22.35	148	52	Horizontal
6	7320.00	41.45	-9.28	74.00	32.55	157	69	Horizontal

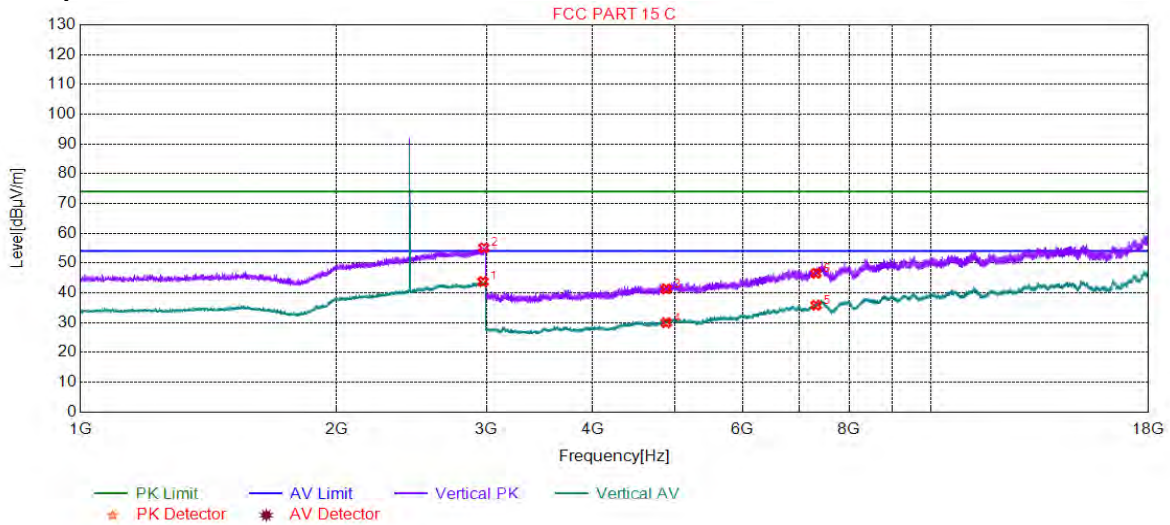


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4.9.2.10

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	2972.49	43.75	10.60	54.00	10.25	240	45	Vertical
2	2980.49	55.12	10.63	74.00	18.88	160	149	Vertical
3	4880.00	41.29	-16.81	74.00	32.71	273	66	Vertical
4	4880.00	29.94	-16.81	54.00	24.06	158	83	Vertical
5	7320.00	35.81	-9.28	54.00	18.19	259	272	Vertical
6	7320.00	46.53	-9.28	74.00	27.47	185	169	Vertical

Final Data List



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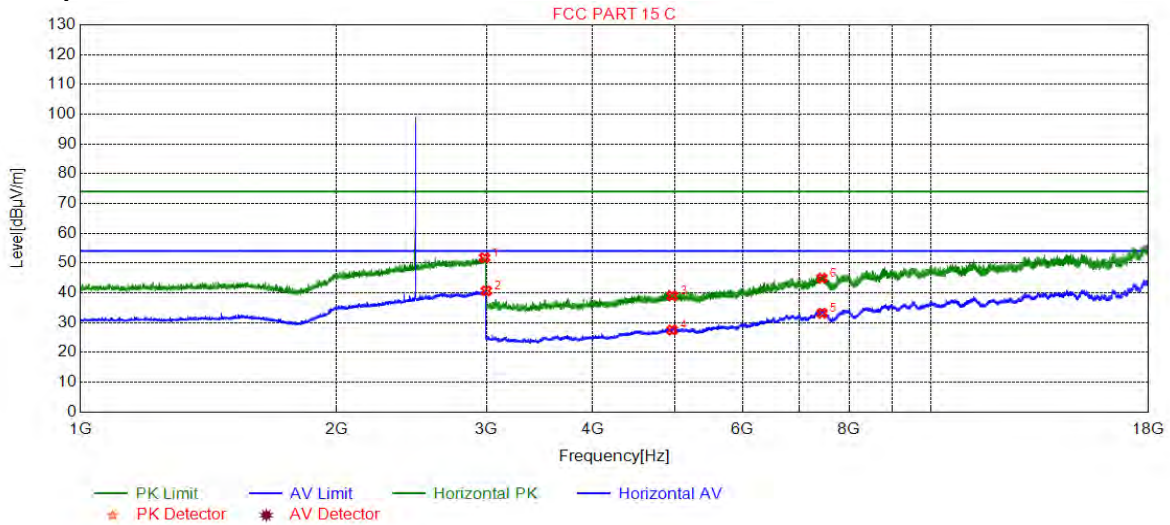
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4.9.2.11

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	2985.99	51.77	10.60	74.00	22.23	216	105	Horizontal
2	2999.49	40.63	10.77	54.00	13.37	105	225	Horizontal
3	4960.00	38.97	-16.28	74.00	35.03	230	137	Horizontal
4	4960.00	27.49	-16.28	54.00	26.51	150	311	Horizontal
5	7440.00	33.13	-8.83	54.00	20.87	212	155	Horizontal
6	7440.00	44.90	-8.83	74.00	29.10	247	346	Horizontal

Final Data List

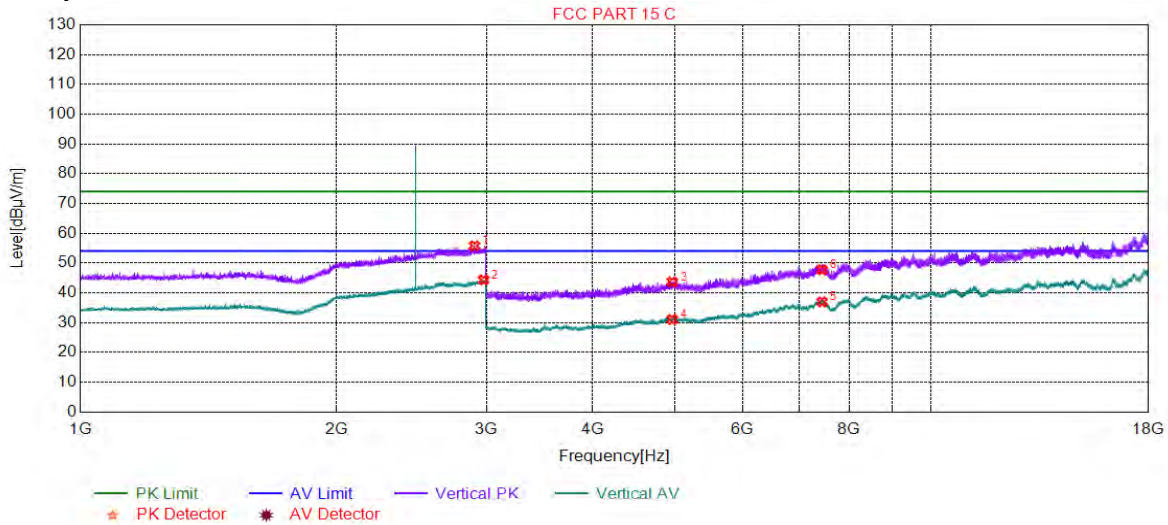


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4.9.2.12 BLE_2M_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2904.47	55.77	10.40	74.00	18.23	287	93	Vertical
2	2977.99	44.32	10.60	54.00	9.68	239	347	Vertical
3	4960.00	43.66	-16.28	74.00	30.34	175	117	Vertical
4	4960.00	31.02	-16.28	54.00	22.98	267	82	Vertical
5	7440.00	36.96	-8.83	54.00	17.04	197	100	Vertical
6	7440.00	47.72	-8.83	74.00	26.28	255	100	Vertical

Final Data List

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance between 9KHz to 30MHz and 18GHz to 25GHz was very low, and the above harmonics were the highest point could be found when testing, The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.
- 4) All Modes have been tested, but only the worst case data displayed in this report.



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:			

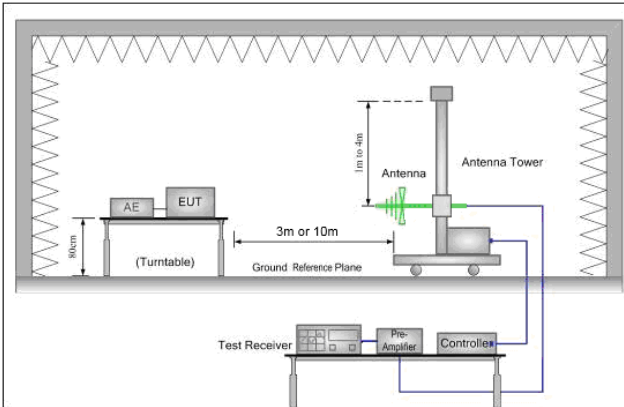


Figure 1. 30MHz to 1GHz

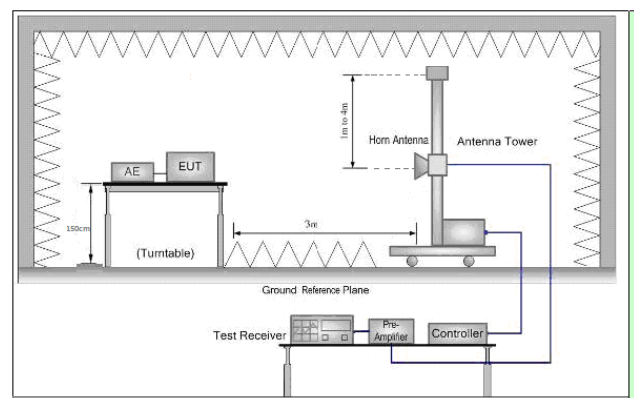


Figure 2. Above 1 GHz

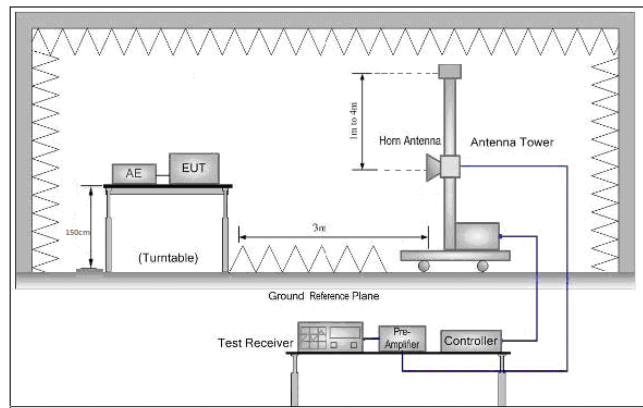


Figure 3. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

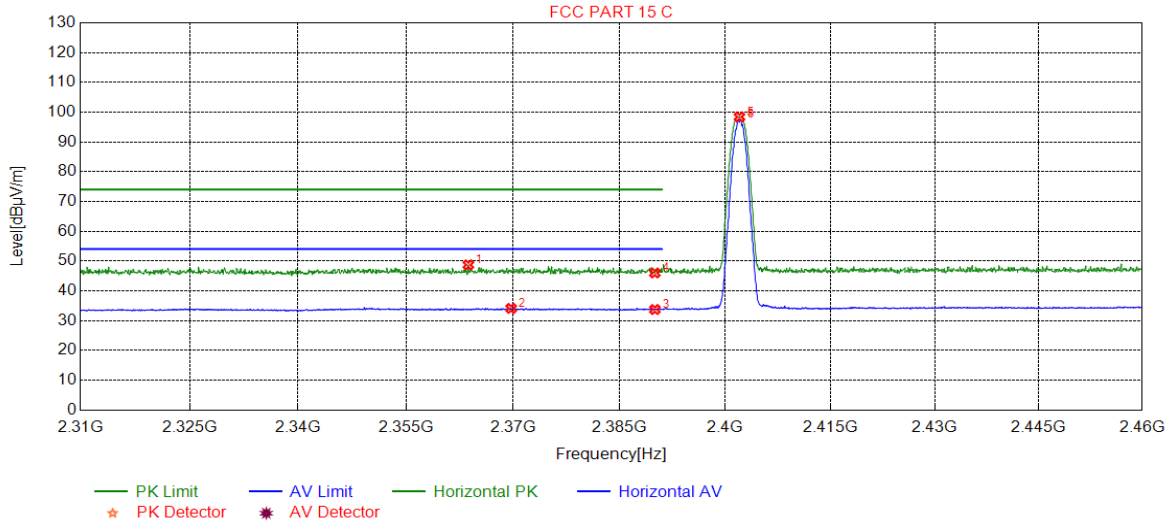


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4.10.1 Test Plots

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	2363.72	48.70	8.04	74.00	25.30	210	184	Horizontal
2	2369.72	34.07	8.09	54.00	19.93	191	230	Horizontal
3	2390.00	33.71	7.98	54.00	20.29	187	327	Horizontal
4	2390.00	45.98	7.98	74.00	28.02	117	327	Horizontal
5	2402.00	98.38	8.06	0.00	-98.38	136	327	Horizontal
6	2402.00	97.72	8.06	0.00	-97.72	196	323	Horizontal

Final Data List

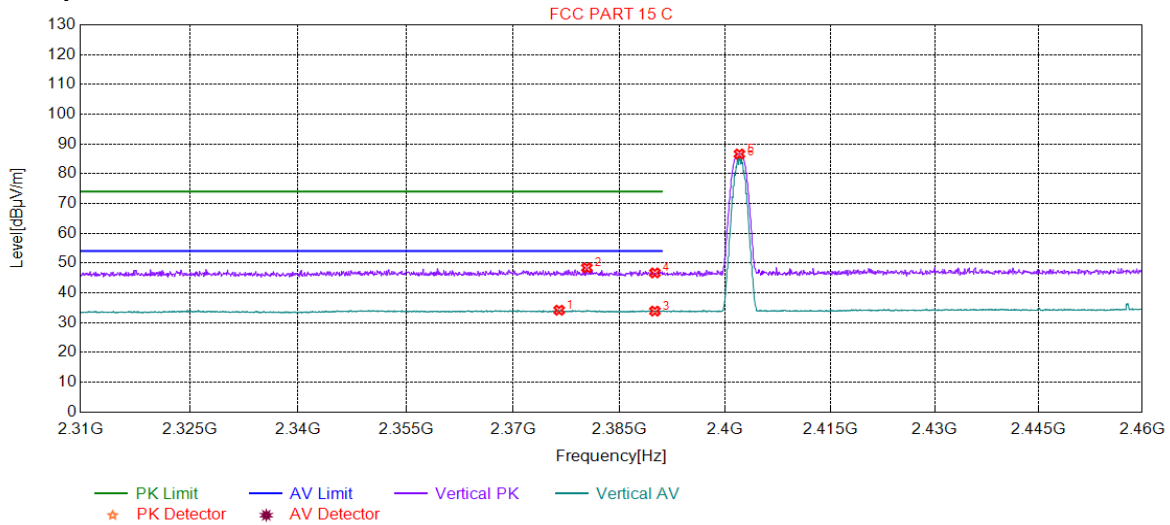
Final Data List								
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4.10.1.2 BLE_1M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.48	34.15	7.96	54.00	19.85	259	334	Vertical
2	2380.38	48.39	7.98	74.00	25.61	271	220	Vertical
3	2390.00	33.85	7.98	54.00	20.15	195	14	Vertical
4	2390.00	46.67	7.98	74.00	27.33	161	143	Vertical
5	2402.00	86.61	8.06	0.00	-86.61	253	213	Vertical
6	2402.00	85.67	8.06	0.00	-85.67	157	216	Vertical

Final Data List

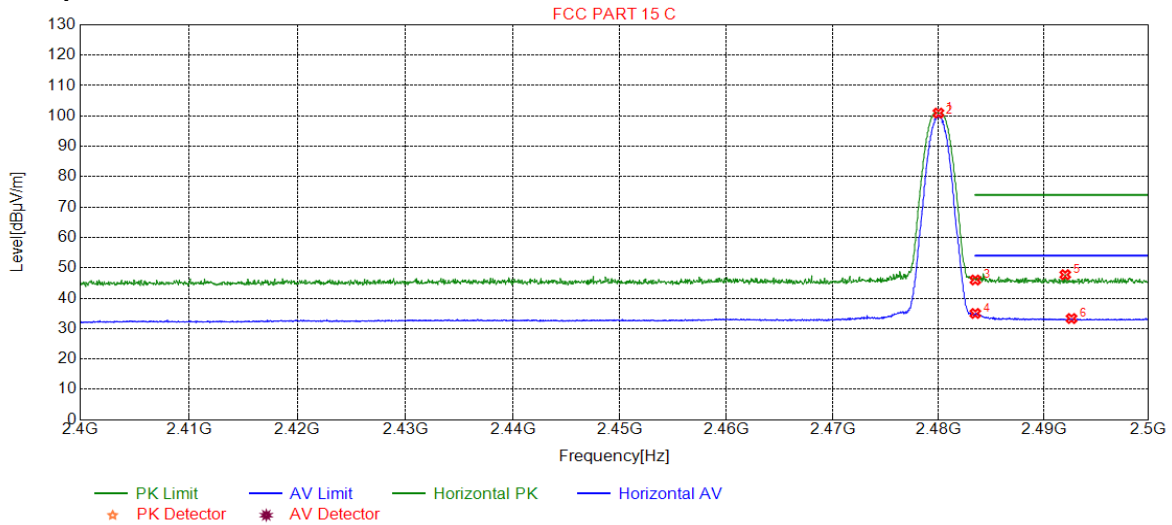


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4.10.1.3 BLE_1M_Channel 39

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	100.94	8.54	0.00	-100.94	115	261	Horizontal
2	2480.00	100.12	8.54	0.00	-100.12	151	257	Horizontal
3	2483.50	46.00	8.50	74.00	28.00	109	239	Horizontal
4	2483.50	35.00	8.50	54.00	19.00	197	261	Horizontal
5	2492.04	47.75	8.61	74.00	26.25	154	341	Horizontal
6	2492.64	33.32	8.60	54.00	20.68	102	139	Horizontal

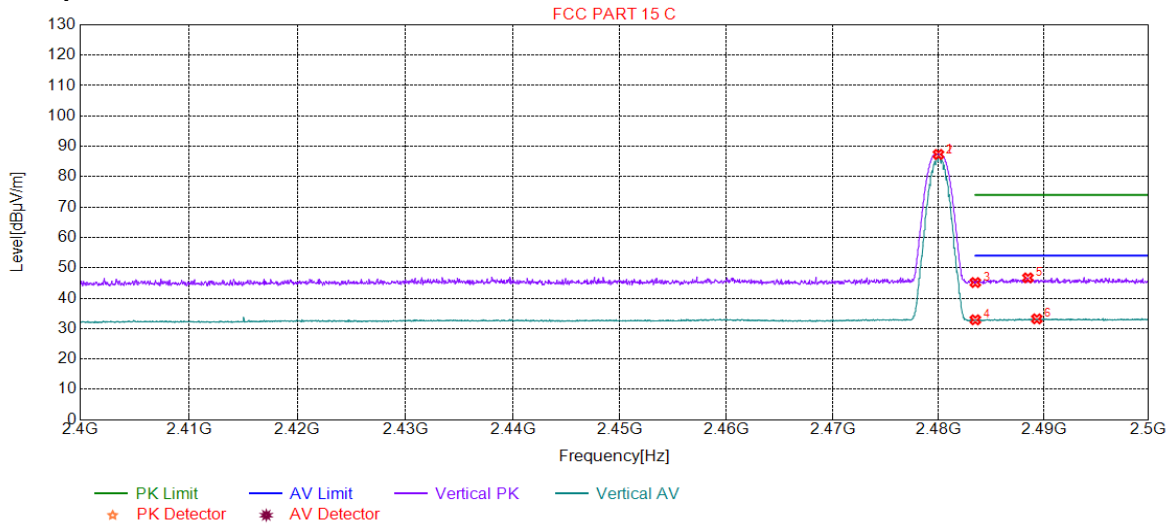
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4.10.1.4 BLE_1M_Channel 39

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	87.34	8.54	0.00	-87.34	259	212	Vertical
2	2480.00	86.88	8.54	0.00	-86.88	219	212	Vertical
3	2483.50	45.17	8.50	74.00	28.83	251	46	Vertical
4	2483.50	32.90	8.50	54.00	21.10	280	262	Vertical
5	2488.49	46.71	8.58	74.00	27.29	217	209	Vertical
6	2489.34	33.22	8.60	54.00	20.78	252	12	Vertical

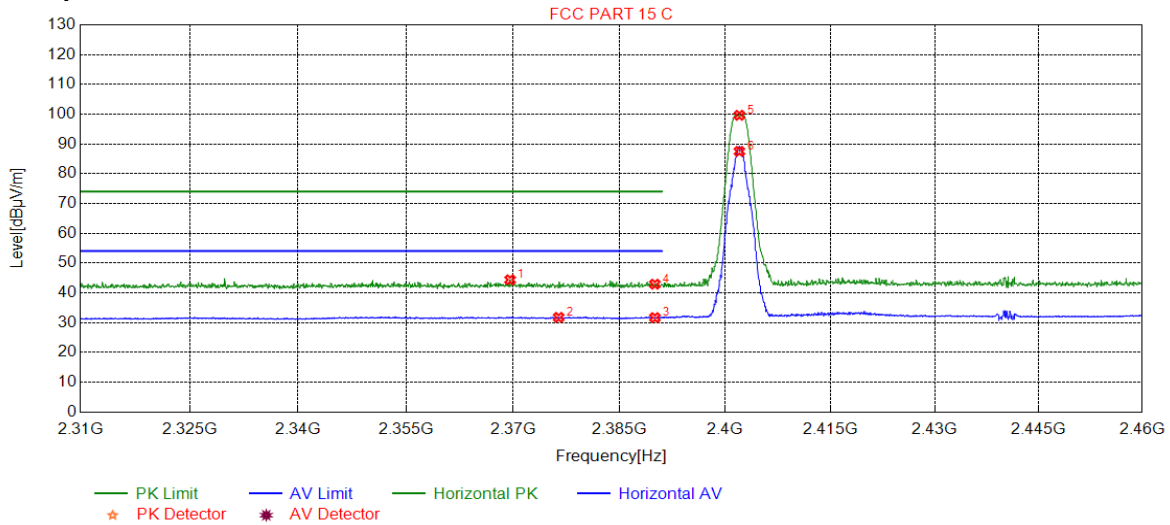
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4.10.1.5 BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.57	44.37	8.09	74.00	29.63	157	185	Horizontal
2	2376.40	31.74	7.96	54.00	22.26	108	14	Horizontal
3	2390.00	31.65	7.98	54.00	22.35	177	182	Horizontal
4	2390.00	42.89	7.98	74.00	31.11	202	118	Horizontal
5	2402.00	99.61	8.06	0.00	-99.61	118	49	Horizontal
6	2402.00	87.49	8.06	0.00	-87.49	192	98	Horizontal

Final Data List

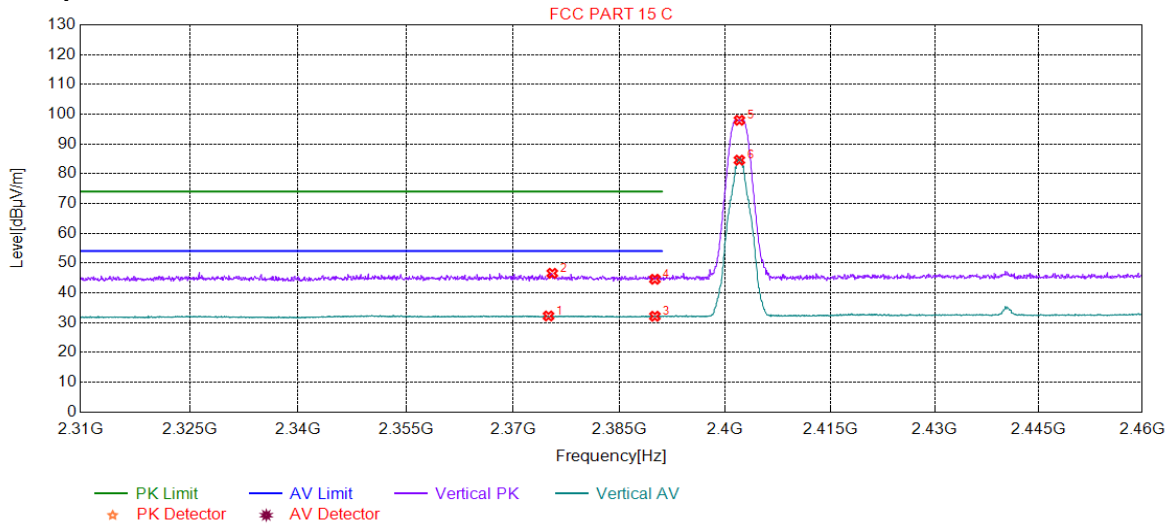


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4.10.1.6 BLE_2M_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.98	32.21	7.94	54.00	21.79	173	342	Vertical
2	2375.50	46.54	7.95	74.00	27.46	196	178	Vertical
3	2390.00	32.11	7.98	54.00	21.89	155	170	Vertical
4	2390.00	44.54	7.98	74.00	29.46	177	220	Vertical
5	2402.00	97.94	8.06	0.00	-97.94	163	167	Vertical
6	2402.00	84.54	8.06	0.00	-84.54	193	151	Vertical

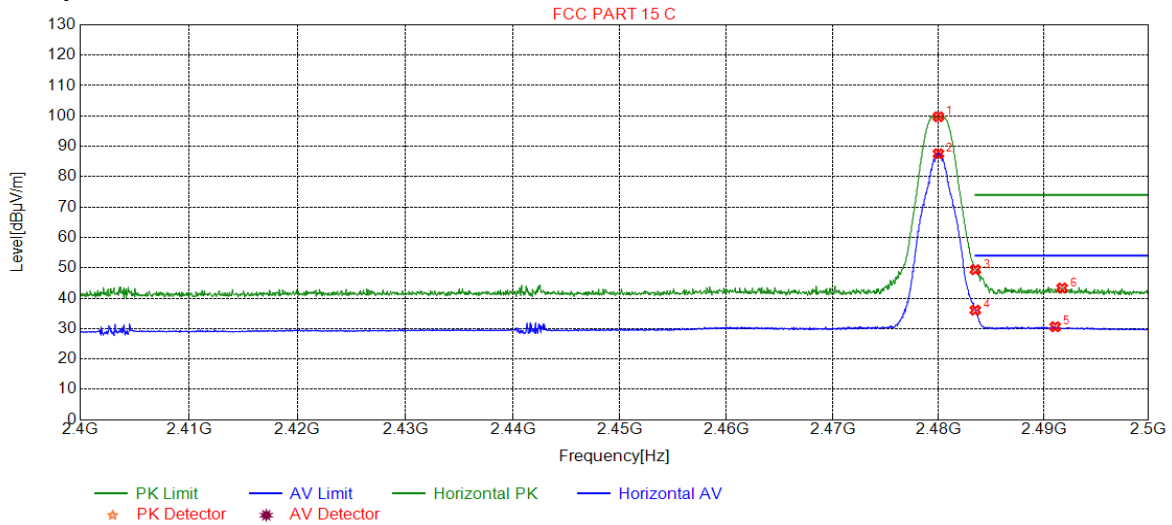
Final Data List



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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	99.73	8.54	0.00	-99.73	234	65	Horizontal
2	2480.00	87.55	8.54	0.00	-87.55	134	45	Horizontal
3	2483.50	49.40	8.50	74.00	24.60	209	65	Horizontal
4	2483.50	36.08	8.50	54.00	17.92	163	45	Horizontal
5	2491.09	30.62	8.61	54.00	23.38	104	68	Horizontal
6	2491.74	43.38	8.61	74.00	30.62	127	115	Horizontal

Final Data List

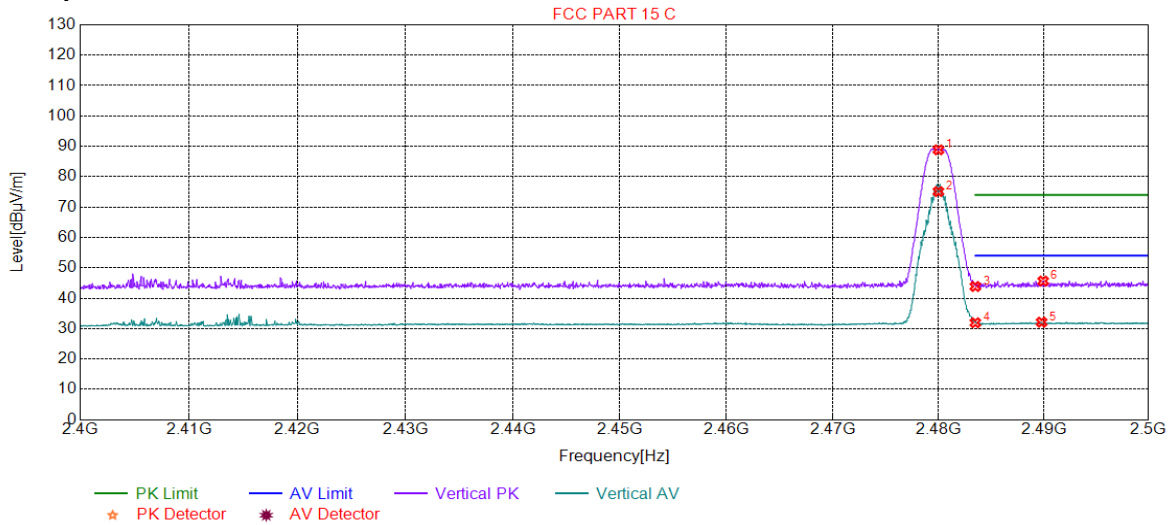


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4.10.1.8 BLE_2M_Channel 39

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	88.85	8.54	0.00	-88.85	298	175	Vertical
2	2480.00	75.11	8.54	0.00	-75.11	192	351	Vertical
3	2483.50	43.86	8.50	74.00	30.14	224	332	Vertical
4	2483.50	31.94	8.50	54.00	22.06	203	229	Vertical
5	2489.79	32.13	8.62	54.00	21.87	201	52	Vertical
6	2489.94	45.66	8.62	74.00	28.34	276	217	Vertical

Final Data List

Remark:

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

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

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



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

Lab A:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Temperature test	±1°C
5	Humidity test	±3%
6	DC and low frequency voltages	±0.5%

Lab B:

No.	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	2020/1/3	2021/1/2
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-05	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 - Photographs of Set-Up for HR/2020/B0007.

The End



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