



FCC TEST REPORT

Application No.: ZR/2020/B0016
Applicant: SMT TELECOMM HK LIMITED
Address of Applicant: UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer: SMT TELECOMM HK LIMITED
Address of Manufacturer: UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
EUT Description: tablet
Model No.: Inspire 4.0
Trade Mark: GTL
FCC ID: 2AIMEI40
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Test Method: KDB558074 D01 15.247 Meas Guidance v05r02
 ANSI C63.10 (2013)
Date of Receipt: 2020/11/18
Date of Test: 2020/11/18 to 2020/12/7
Date of Issue: 2021/6/1

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

Authorized Signature:

Derek Yang
Wireless Laboratory Manager



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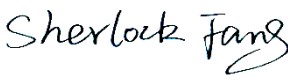
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/3/8		Original
02		2021/6/1	Sherlock Fang	1.Modify data conversion error of antenna height 2.Update equipment list

*This report supersedes our previous report ZR/2020/B001603, issued on 2021-03-08, which is hereby deemed null and void.

Authorized for issue by:		
Prepared By		 (Sherlock Fang) / Engineer
Checked By		 (David Chen) /Reviewer



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



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3 General Information

3.1 Client Information

Applicant:	SMT TELECOMM HK LIMITED
Address of Applicant:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL
Manufacturer:	SMT TELECOMM HK LIMITED
Address of Manufacturer:	UNIT C 8/F CHARMHILL CTR 50 HILLWOOD RD TST KL

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

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



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3.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

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

• FCC –Designation Number: CN1178

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

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

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

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

Designation Number: CN1271.



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3.4 General Description of EUT

EUT Description:	tablet
Model No.:	Inspire 4.0
Trade Mark:	GTL
Hardware Version:	P3
Software Version:	Inspire 4.0_09162020
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 V5.0 LE
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	☒ Portable Device, ☐ Module
Antenna Type:	☐ External, ☒ Integrated
Antenna Gain:	3dBi
Power Supply:	☐ AC/DC Adapter; ☒ Battery; ☐ PoE; ☐ 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

Remark:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz



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3.5 Test Environment

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

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

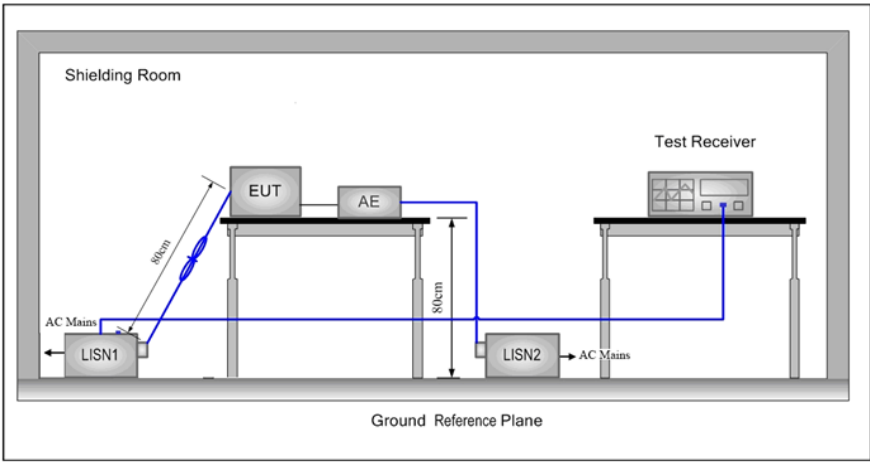
Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.	



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4.2 AC Power Line Conducted Emissions

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



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Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601



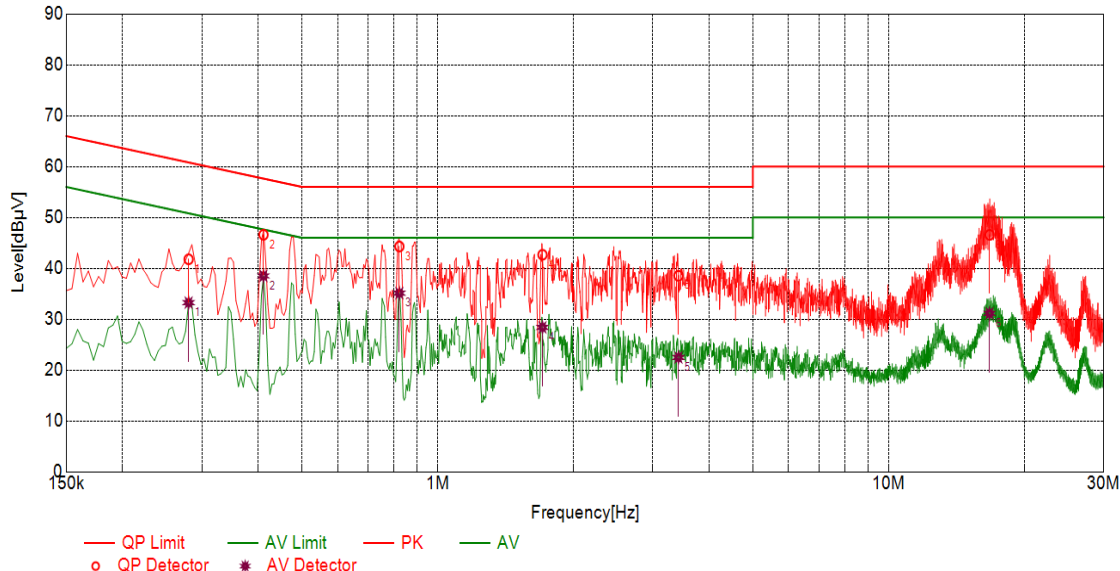


Measurement Data

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	0.2803	10.10	41.78	60.81	19.03	33.25	50.81	17.56	L
2	0.4108	10.10	46.60	57.63	11.03	38.51	47.63	9.12	L
3	0.8222	10.10	44.29	56.00	11.71	35.12	46.00	10.88	L
4	1.7077	10.10	42.67	56.00	13.33	28.39	46.00	17.61	L
5	3.4197	10.10	38.53	56.00	17.47	22.48	46.00	23.52	L
6	16.7446	10.11	46.58	60.00	13.42	31.15	50.00	18.85	L



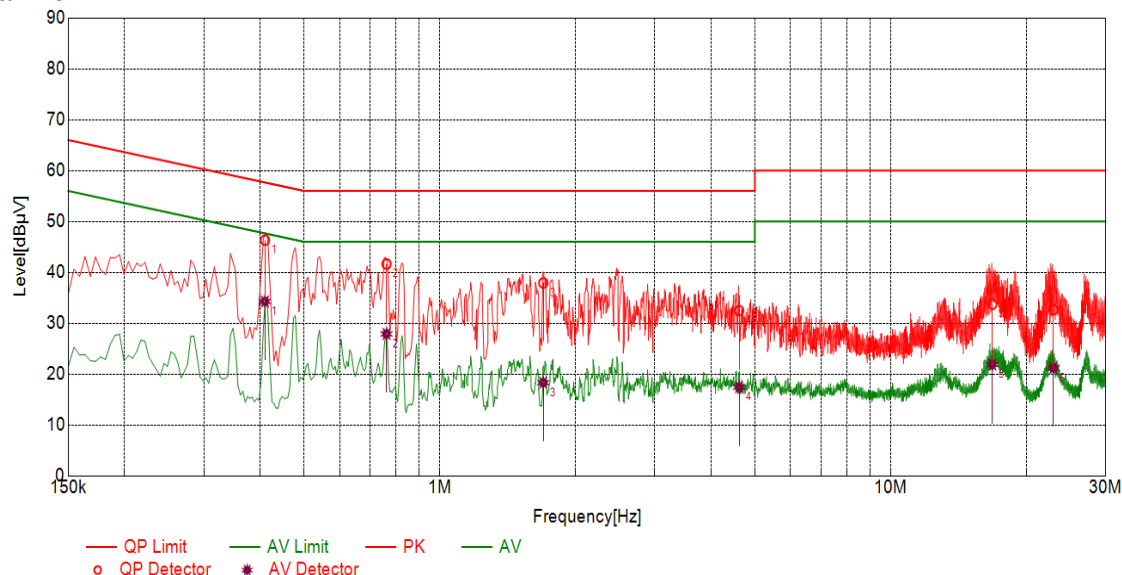
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Neutral line:



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]	Type
1	0.4097	10.10	46.32	57.65	11.33	34.27	47.65	13.38	N
2	0.7623	10.10	41.63	56.00	14.37	27.90	46.00	18.10	N
3	1.6973	10.10	37.91	56.00	18.09	18.31	46.00	27.69	N
4	4.6143	10.10	32.47	56.00	23.53	17.43	46.00	28.57	N
5	16.8107	10.11	33.73	60.00	26.27	21.87	50.00	28.13	N
6	22.9561	10.11	32.65	60.00	27.35	21.19	50.00	28.81	N

Remarks:

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



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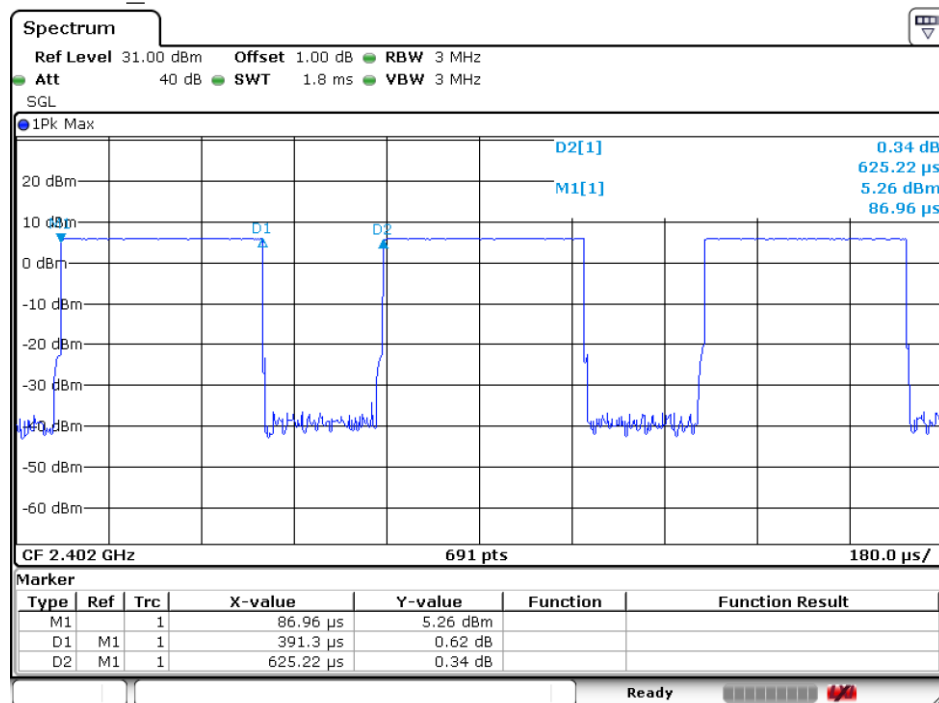
4.3 Duty Cycle

4.3.1 Test Results

Test Mode	TX Freq. [MHz]	Duty cycle [%]
BLE_1M	CH0, CH19, CH39	62.59
BLE_2M	CH0, CH19, CH39	35.18

4.3.1 Test Plots

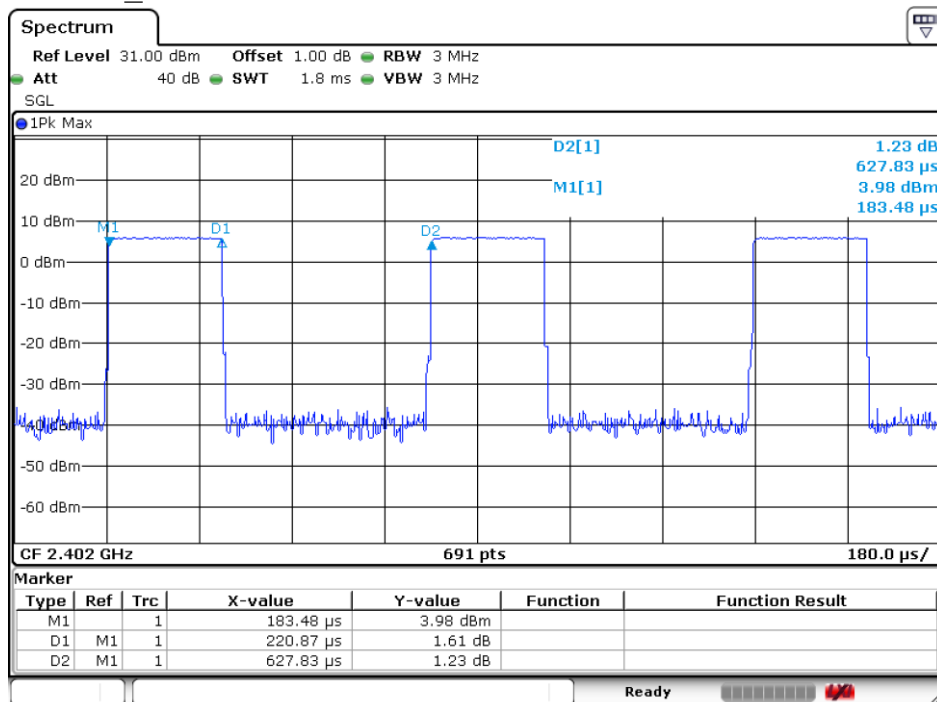
4.3.1.1 BLE_1M



Date: 3.DEC.2020 18:27:30



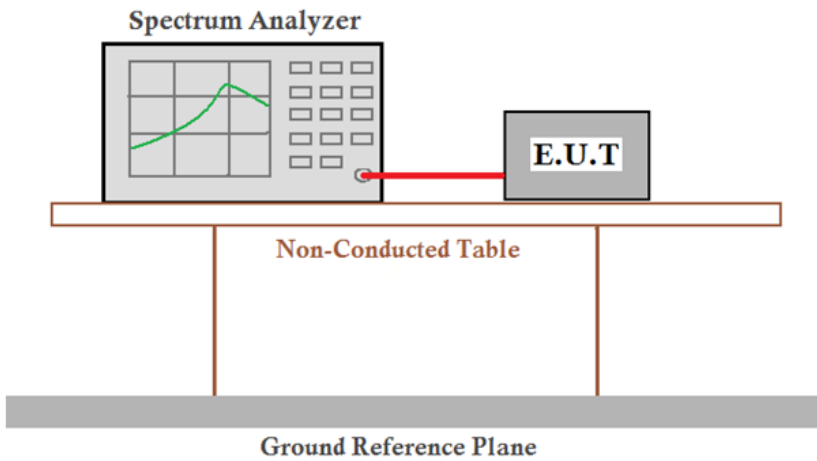
4.3.1.2 BLE_2M



Date: 3.DEC.2020 19:12:18



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:	
Limit:	30dBm
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
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	5.95	30.00	Pass
Middle	5.39	30.00	Pass
Highest	4.84	30.00	Pass

GFSK_2M mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	6.07	30.00	Pass
Middle	5.78	30.00	Pass
Highest	4.91	30.00	Pass

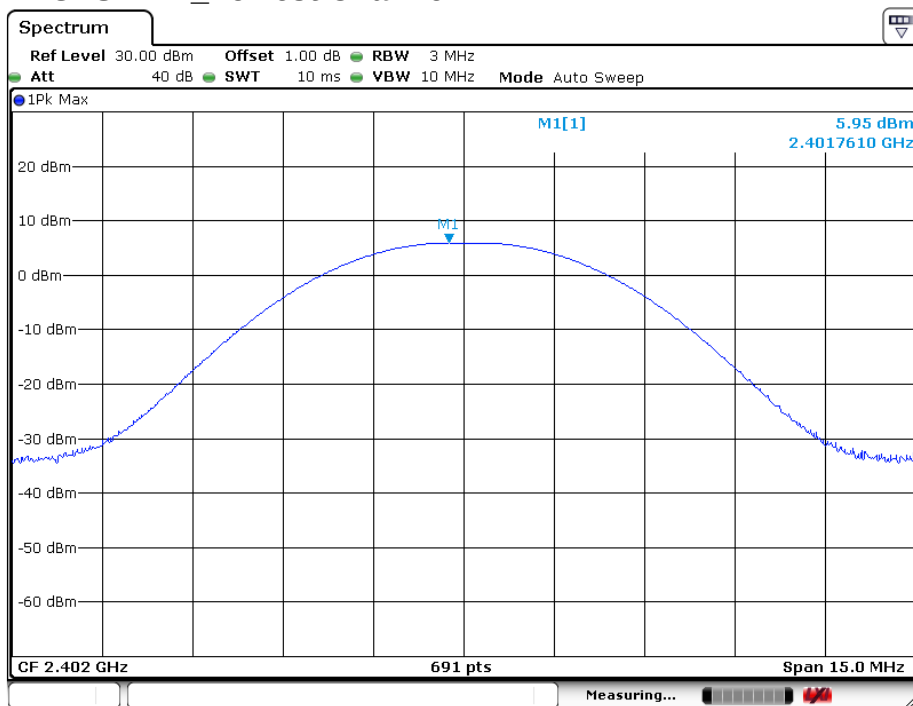


4.4.2

Test plots:

4.4.2.1

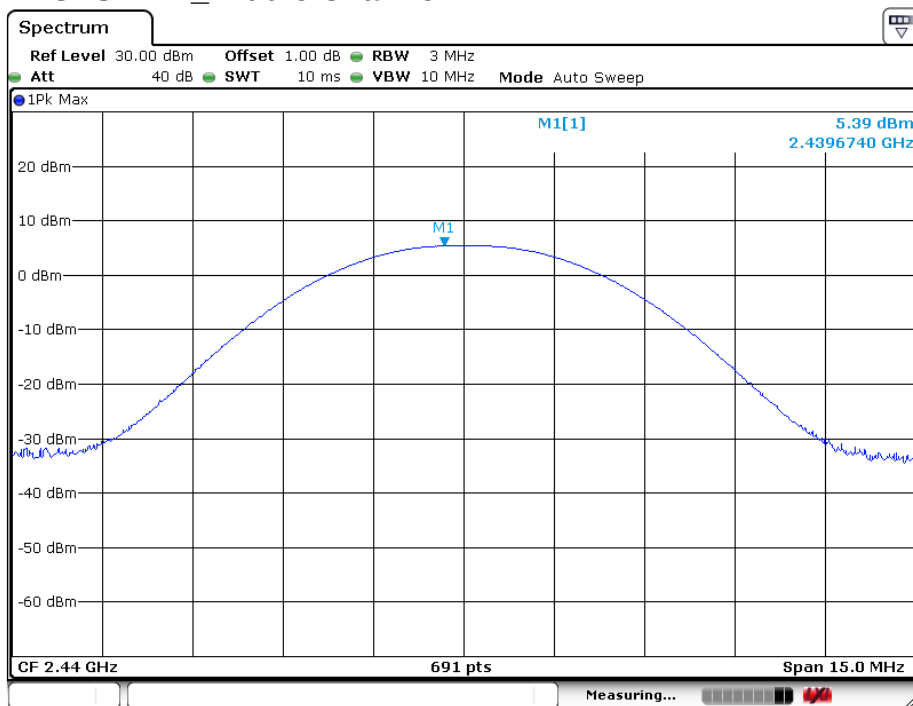
GFSK 1M_Lowest Channel



Date: 3 DEC 2020 17:05:13

4.4.2.2

GFSK 1M_Middle Channel



Date: 3 DEC 2020 17:10:49

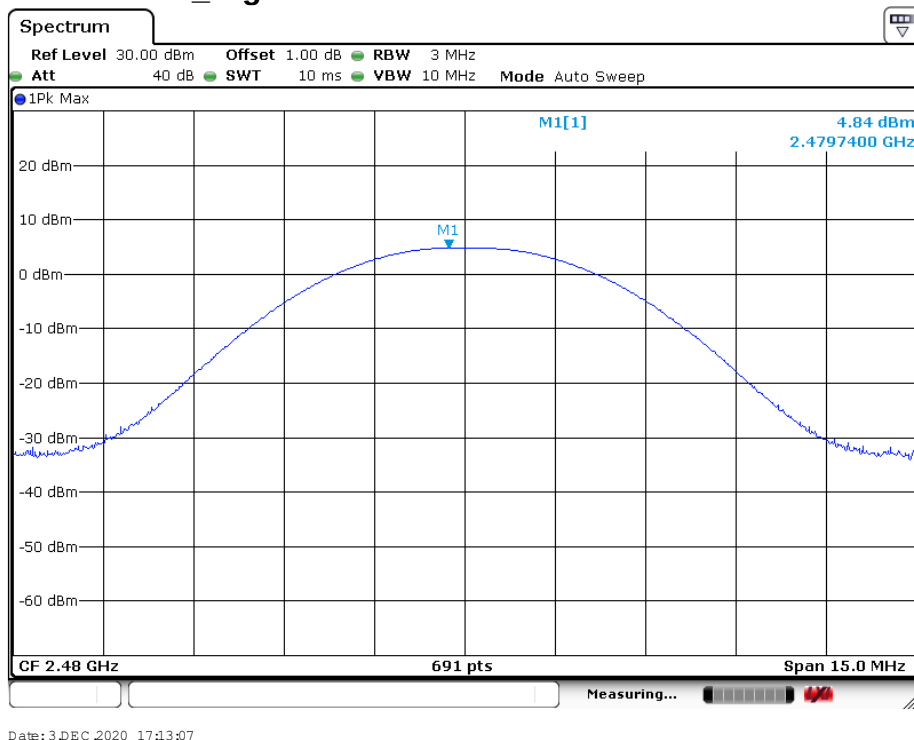


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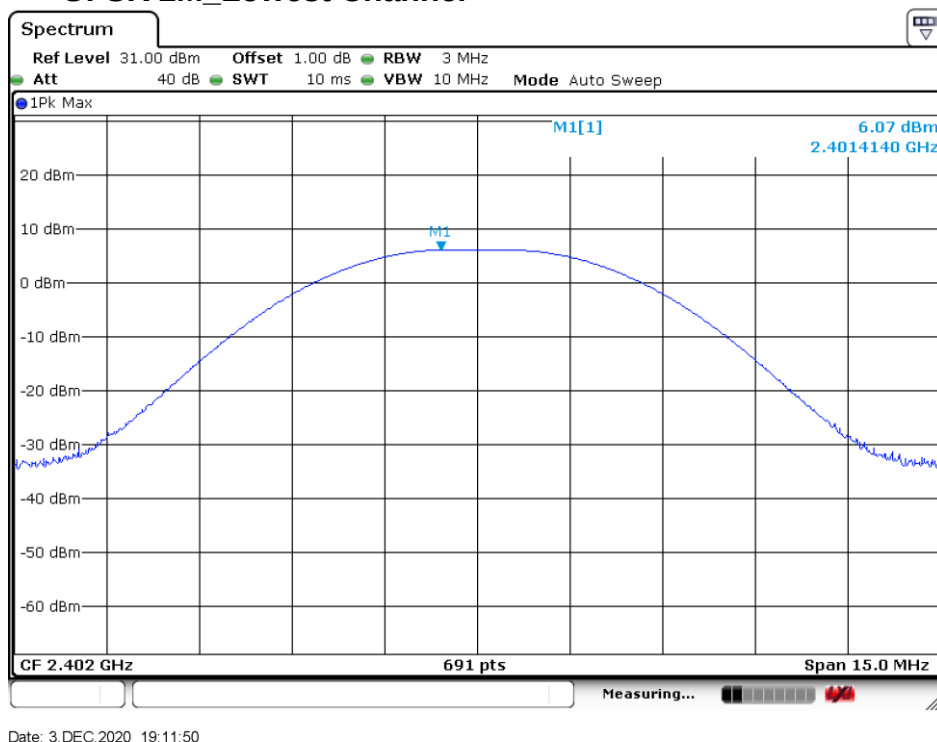
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4.4.2.3 GFSK 1M_Highest Channel



4.4.2.4 GFSK 2M_Lowest Channel

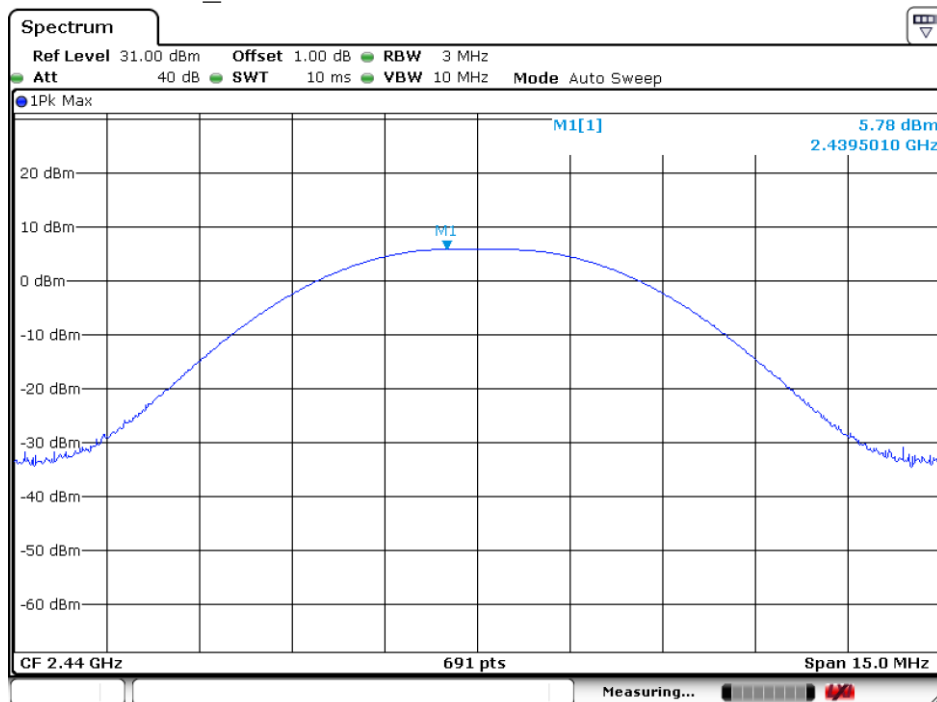


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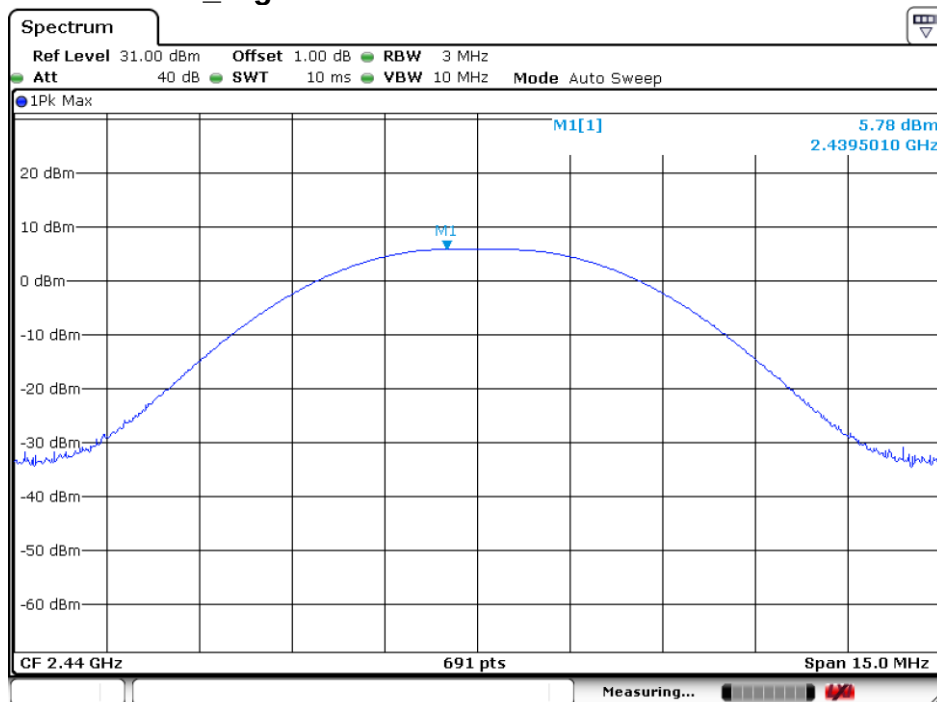
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4.4.2.5 GFSK 2M_Middle Channel



Date: 3.DEC.2020 19:08:23

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:	
Limit:	≥ 500 kHz
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
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	1.05	0.71	≥500	Pass
	Middle	1.05	0.71	≥500	Pass
	Highest	1.05	0.72	≥500	Pass

Mode	Test Channel	99% Occupied Bandwidth (MHz)	6dB Emission Bandwidth (MHz)	Limit (kHz)	Result
GFSK_2M	Lowest	2.13	1.23	≥500	Pass
	Middle	2.12	1.22	≥500	Pass
	Highest	2.13	1.22	≥500	Pass



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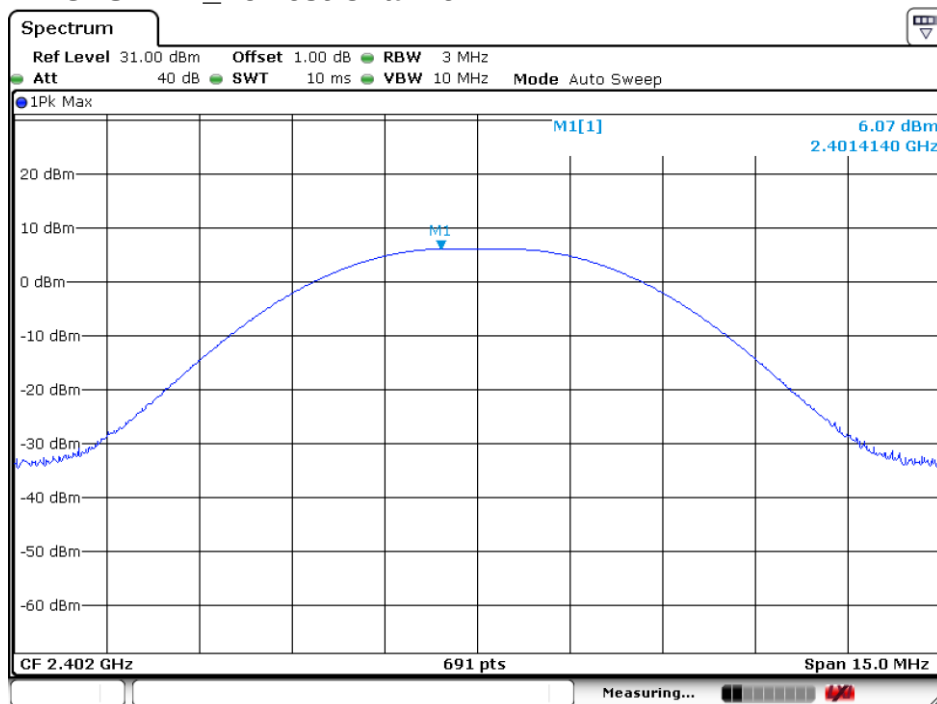
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4.5.2

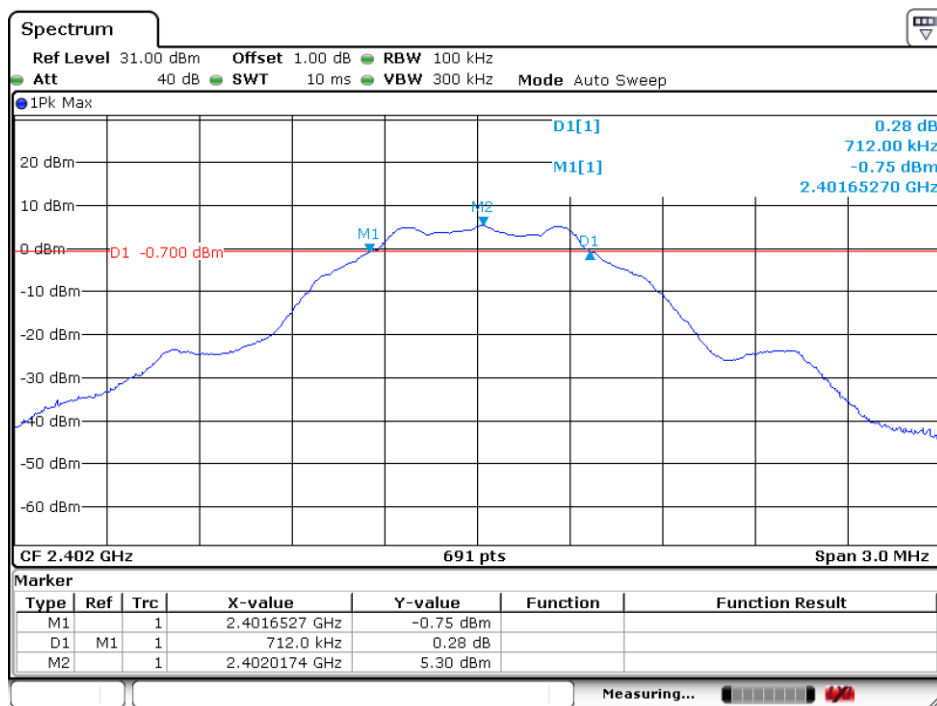
Test plots

4.5.2.1

GFSK 1M_Lowest Channel



Date: 3.DEC.2020 19:11:50



Date: 3.DEC.2020 18:24:30

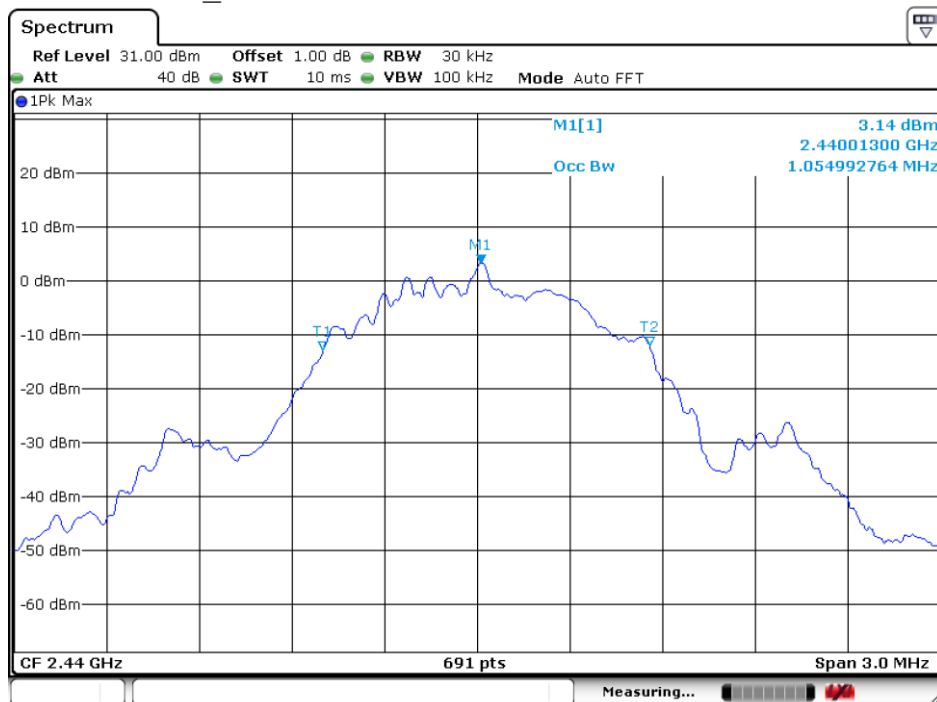


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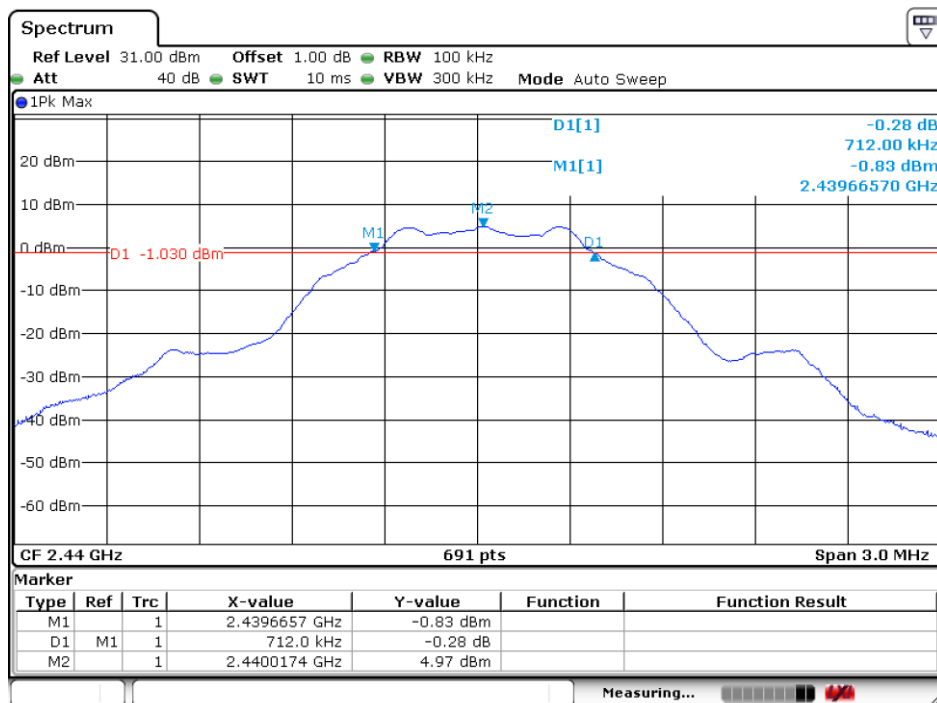
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4.5.2.2 GFSK 1M_Middle Channel



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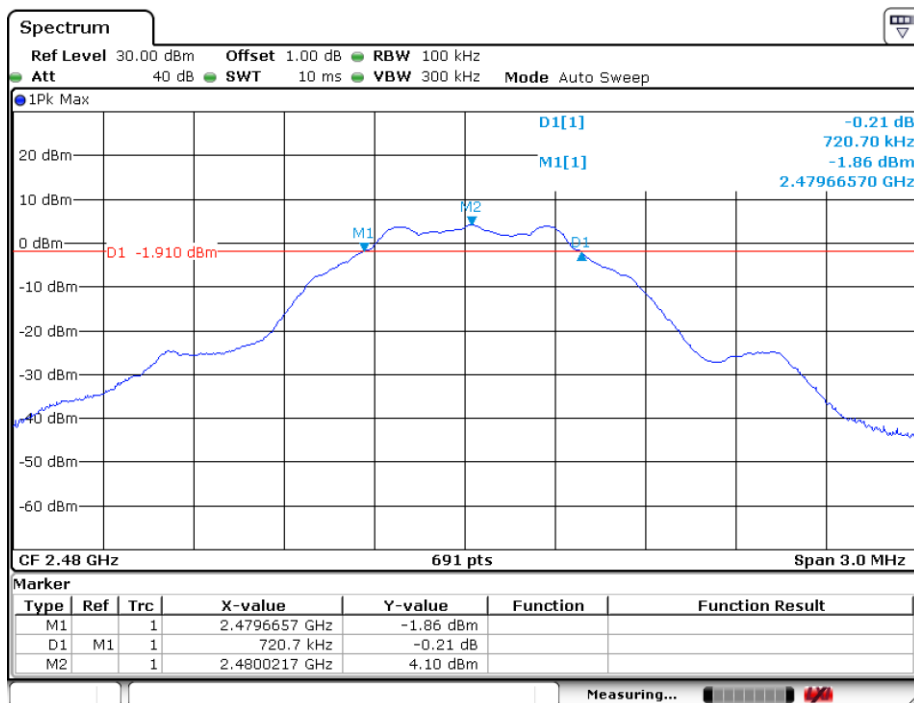
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4.5.2.3

GFSK 1M_Highest Channel



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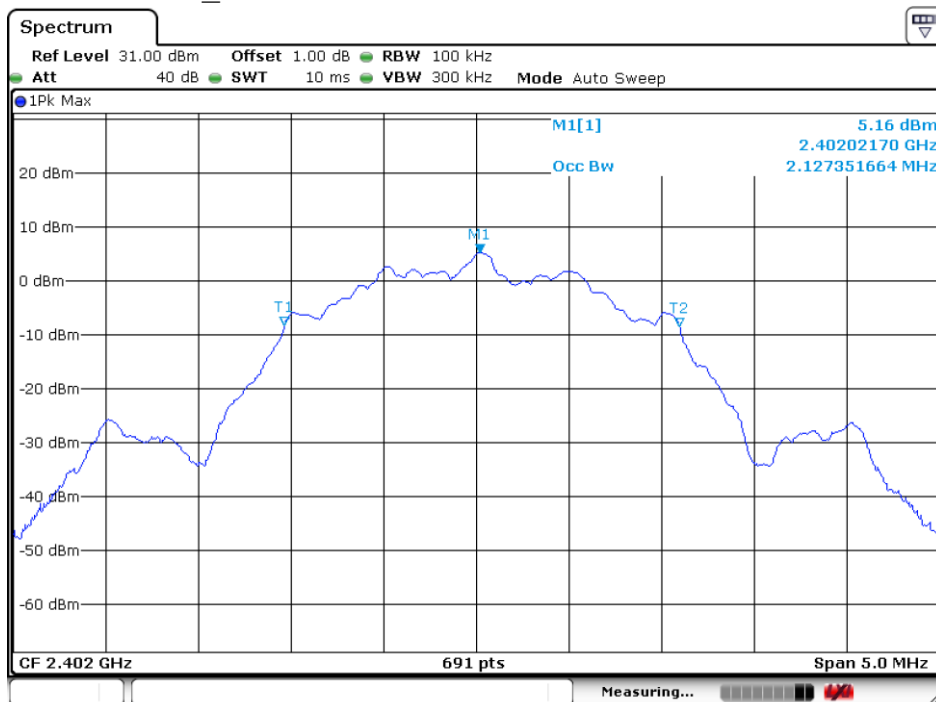
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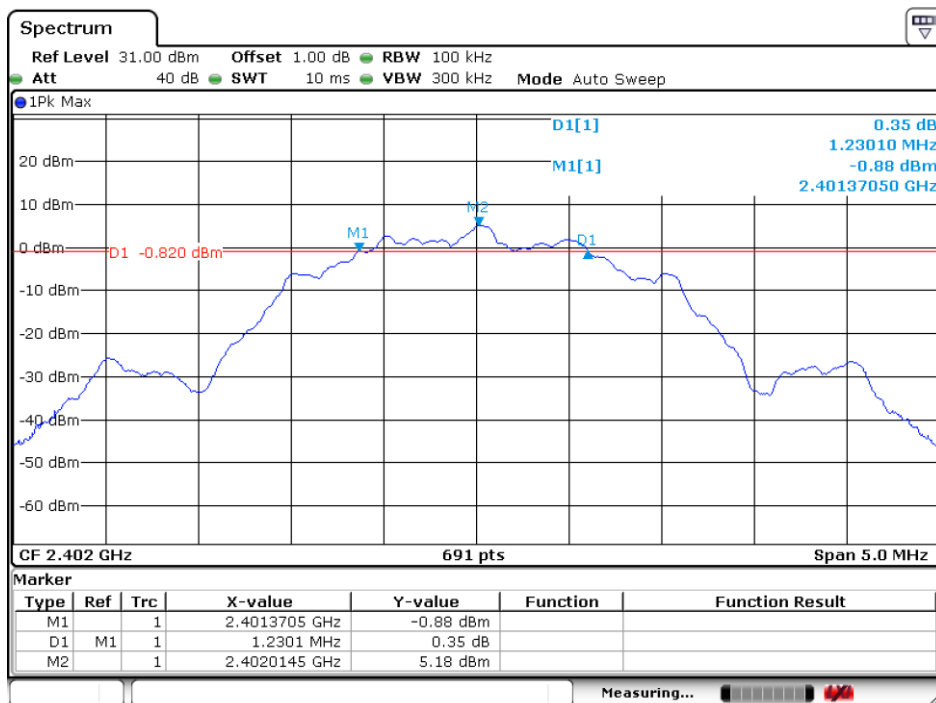
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4.5.2.4 GFSK 2M_Lowest Channel



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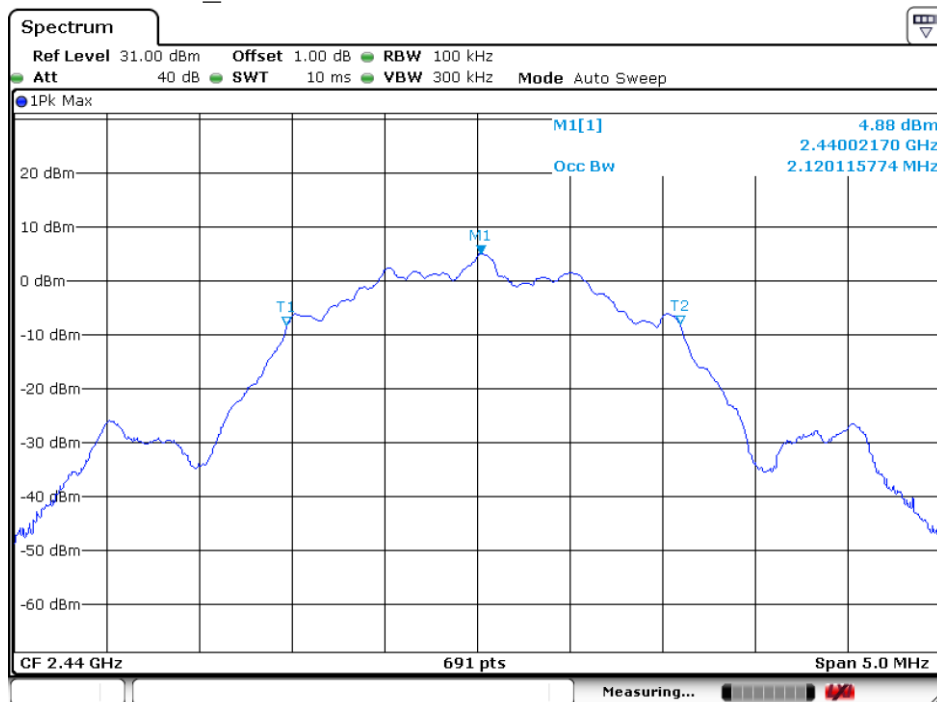
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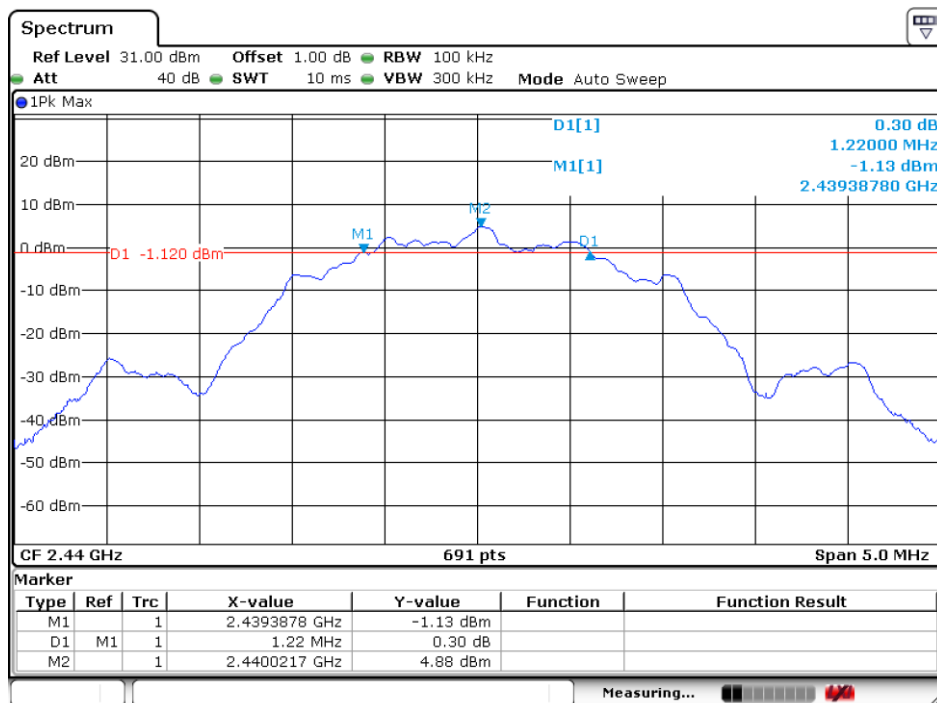
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4.5.2.5 GFSK 2M_Middle Channel



Date: 3.DEC.2020 19:08:52



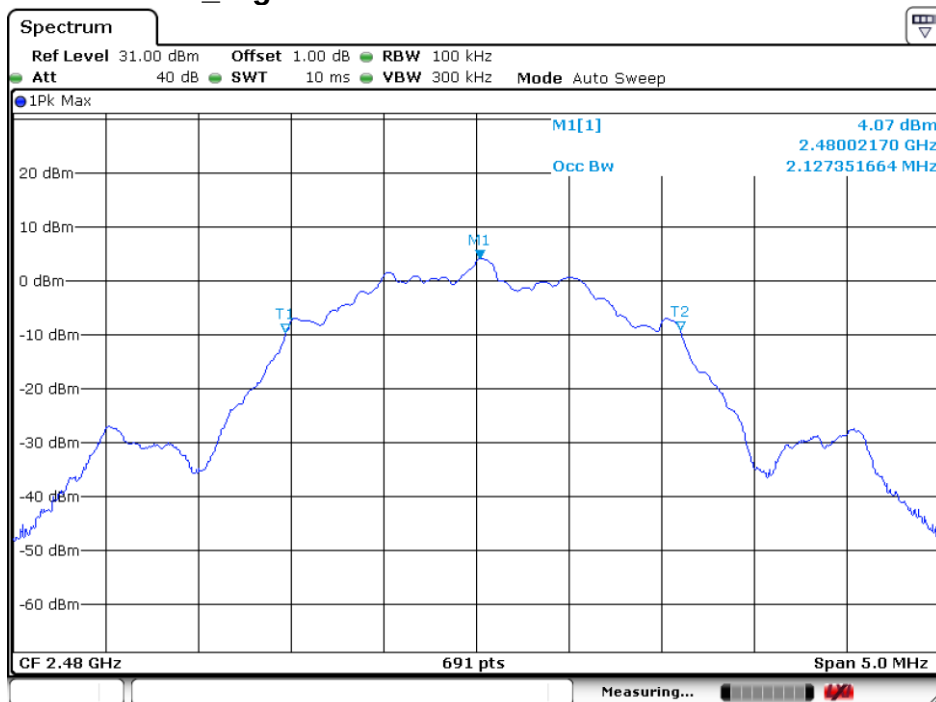
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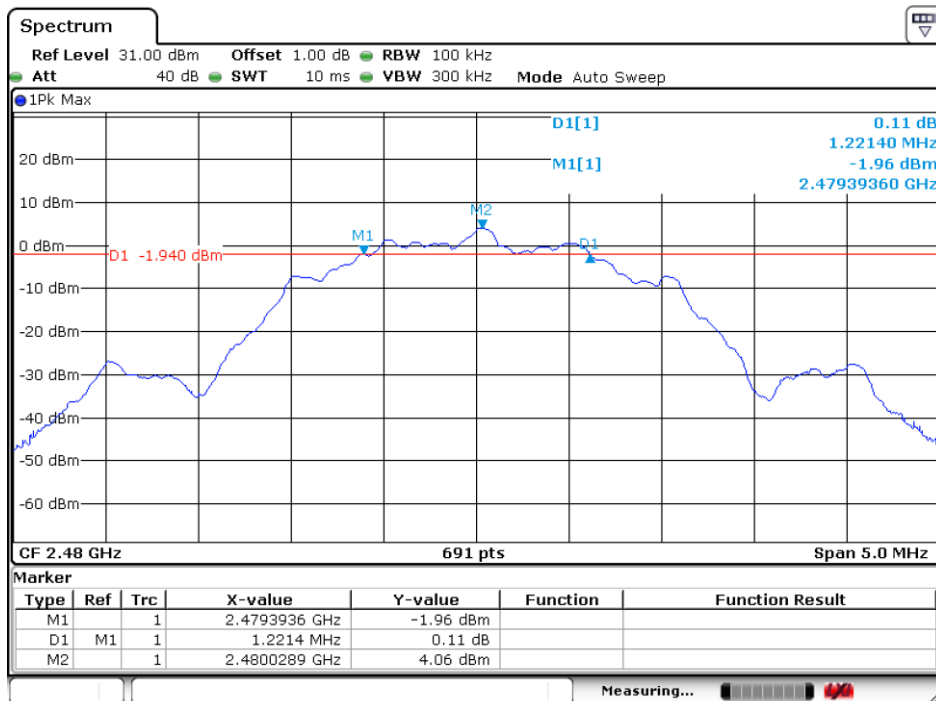
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4.5.2.6 GFSK 2M_Highest Channel



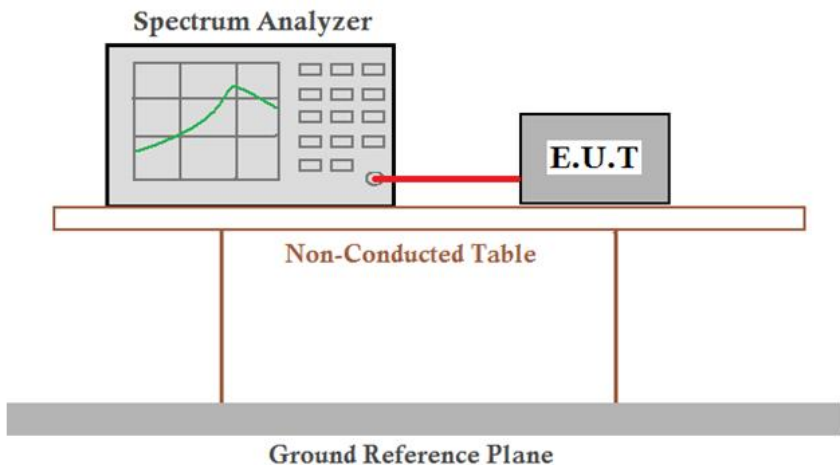
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Limit:	$\leq 8.00 \text{ dBm/3kHz}$
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

4.6.1 Test Results

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_1M	Lowest	-8.49	≤ 8.00	Pass
	Middle	-8.76	≤ 8.00	Pass
	Highest	-9.63	≤ 8.00	Pass

Mode	Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
GFSK_2M	Lowest	-10.15	≤ 8.00	Pass
	Middle	-10.49	≤ 8.00	Pass
	Highest	-11.18	≤ 8.00	Pass

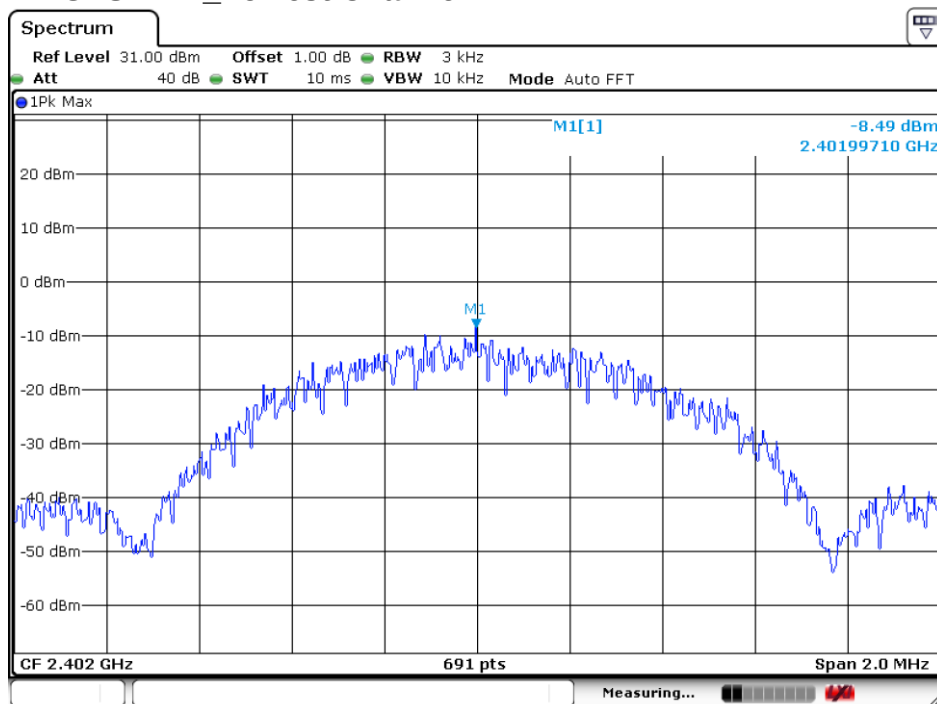


4.6.2

Test plots

4.6.2.1

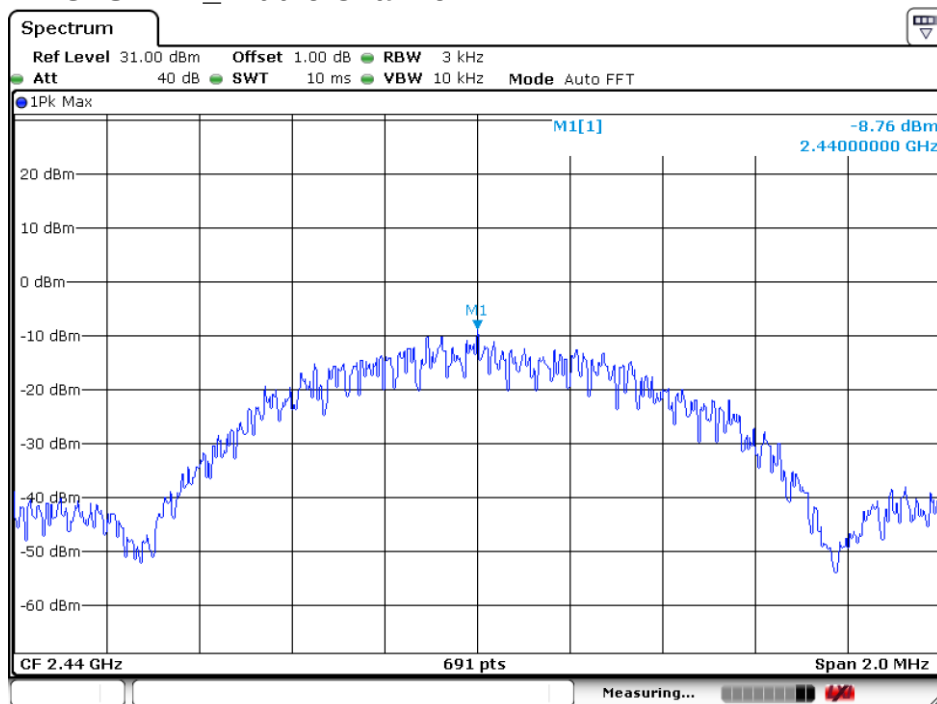
GFSK 1M_Lowest Channel



Date: 3.DEC.2020 18:24:58

4.6.2.2

GFSK 1M_Middle Channel



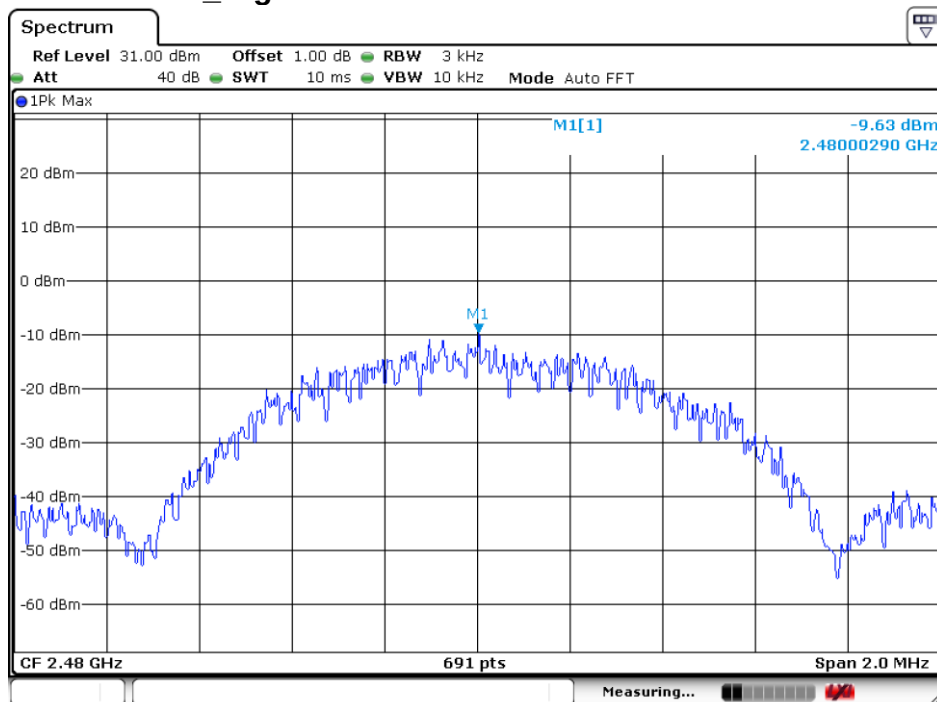
Date: 3.DEC.2020 18:29:24



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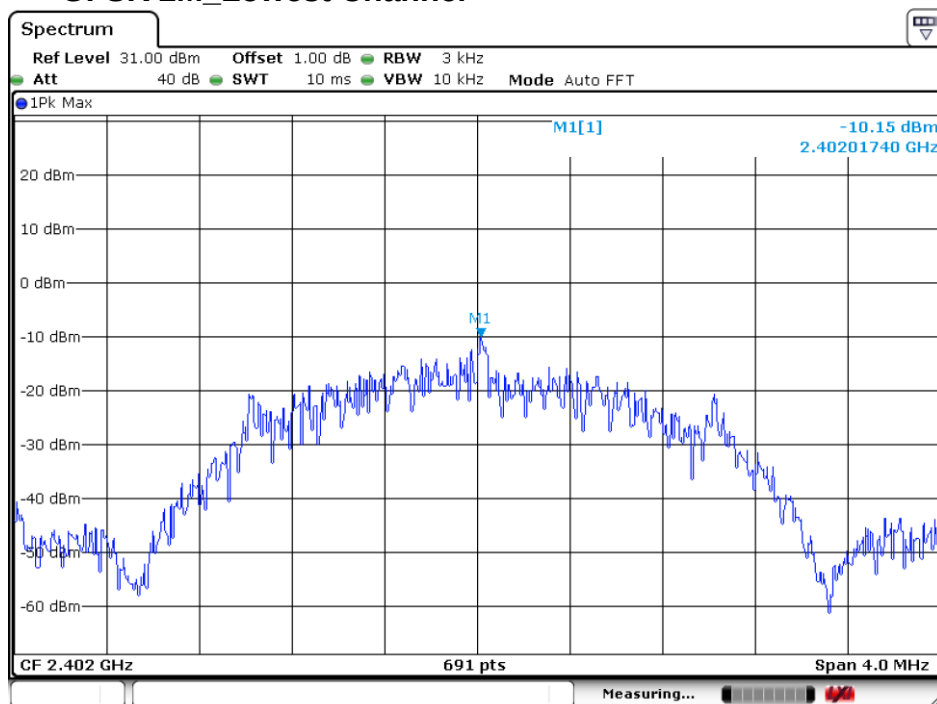
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4.6.2.3 GFSK 1M_Highest Channel



Date: 3.DEC.2020 19:03:46

4.6.2.4 GFSK 2M_Lowest Channel



Date: 3.DEC.2020 19:11:34

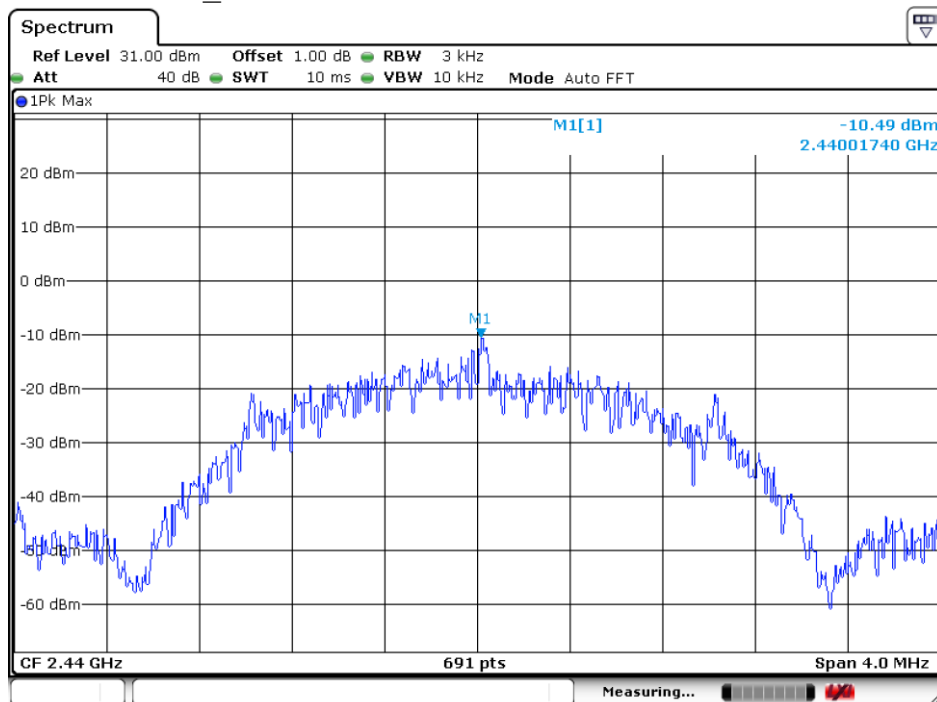


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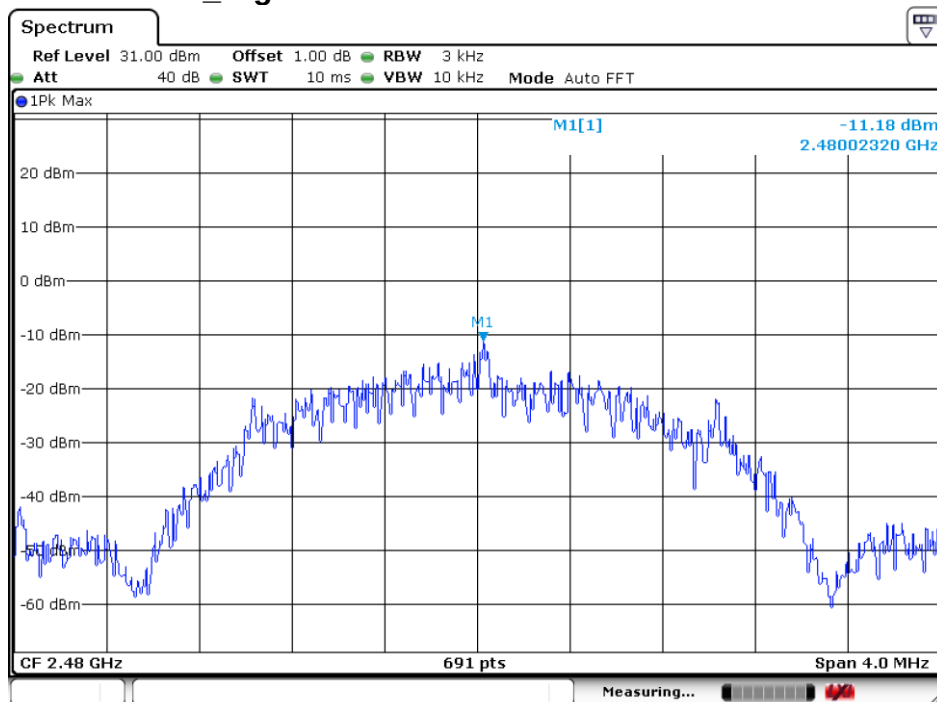
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4.6.2.5 GFSK 2M_Middle Channel



Date: 3.DEC.2020 19:08:36

4.6.2.6 GFSK 2M_Highest Channel



Date: 3.DEC.2020 19:06:03

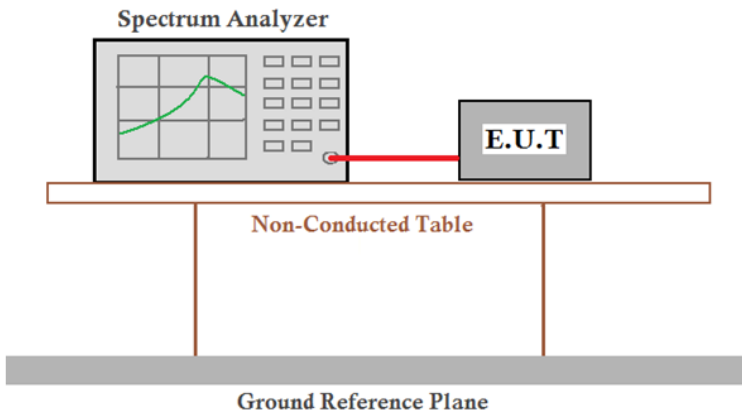


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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

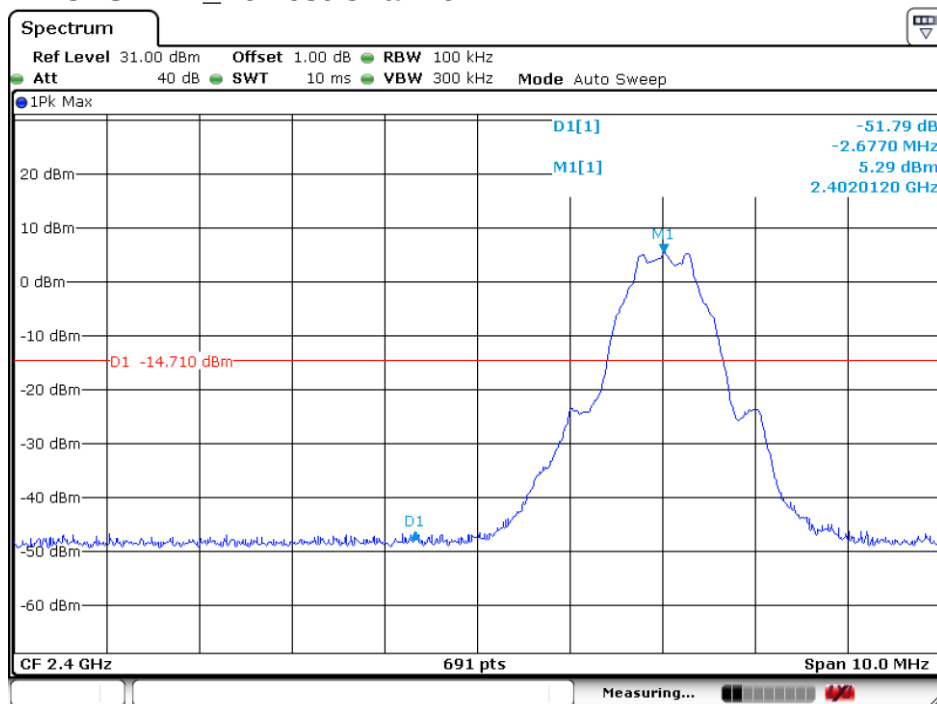


4.7.1

Test plots

4.7.1.1

GFSK 1M_Lowest Channel



Date: 3.DEC.2020 18:25:57



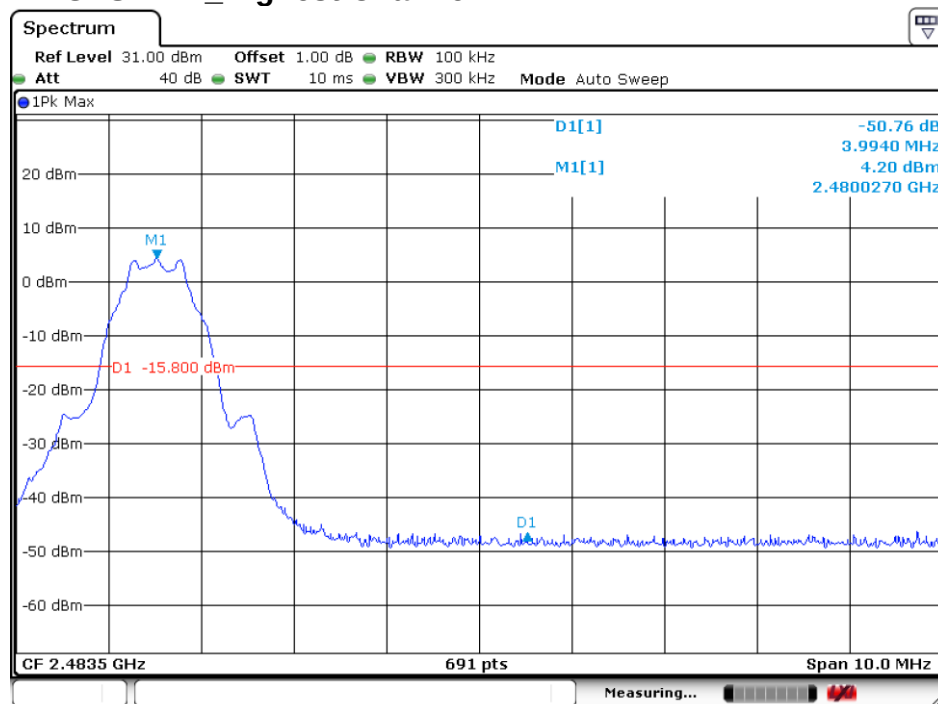
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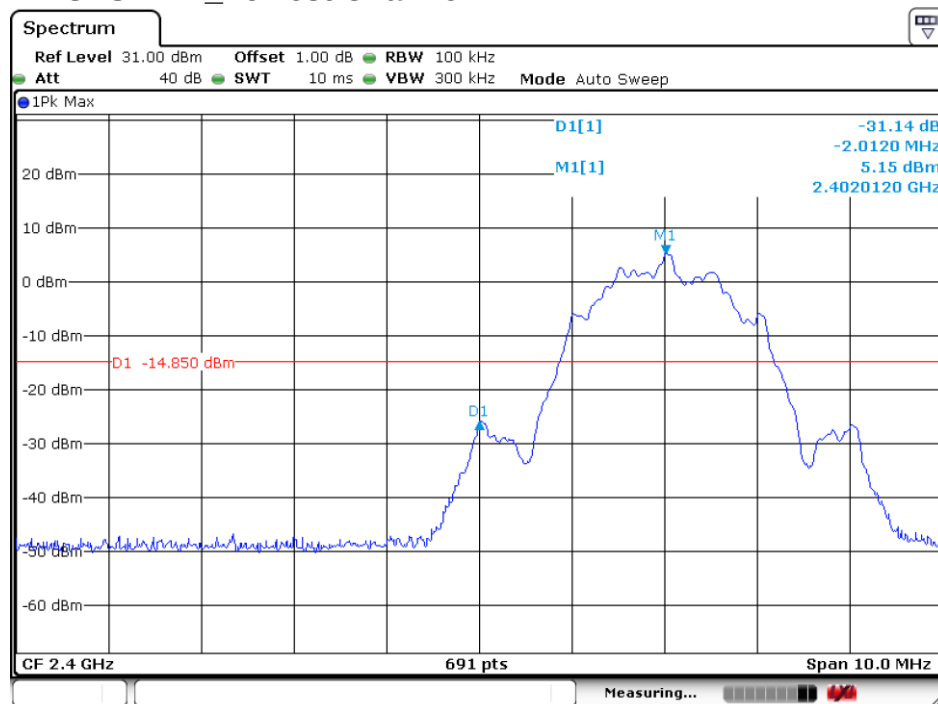
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4.7.1.2 GFSK 1M_Highest Channel



Date: 3.DEC.2020 19:04:39

4.7.1.3 GFSK 2M_Lowest Channel



Date: 3.DEC.2020 19:11:08

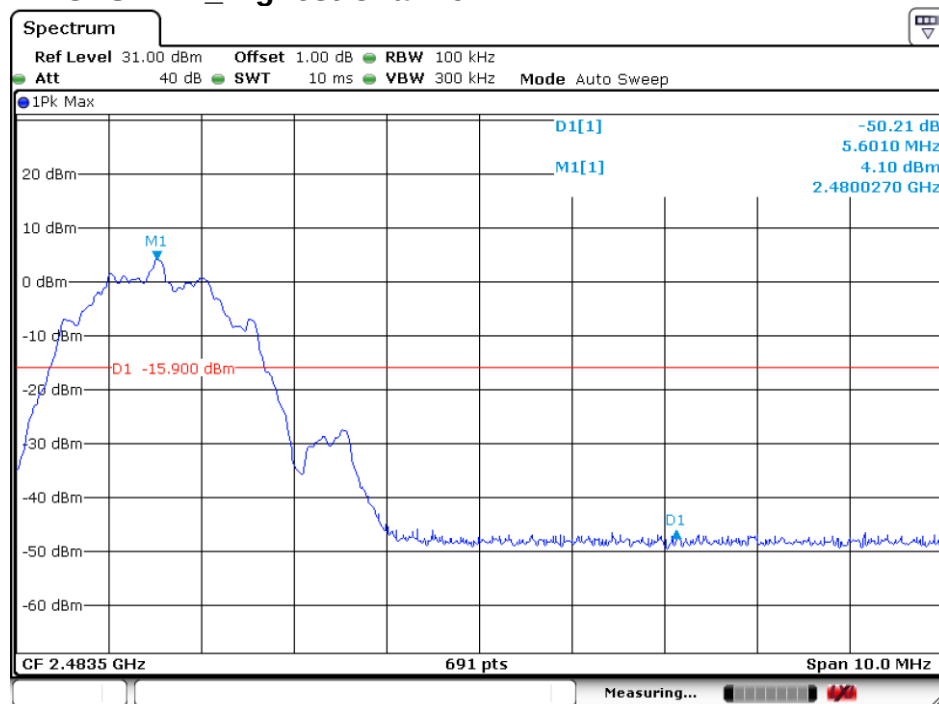


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4.7.1.4

GFSK 2M_Highest Channel



Date: 3.DEC.2020 19:05:40

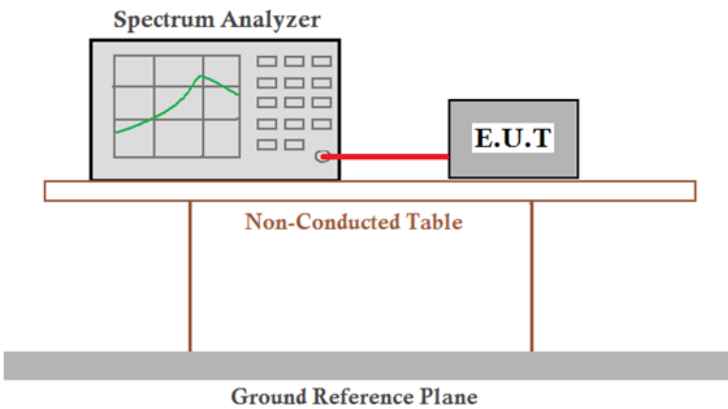
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4.8 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Mode:	Transmitting with GFSK modulation.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass

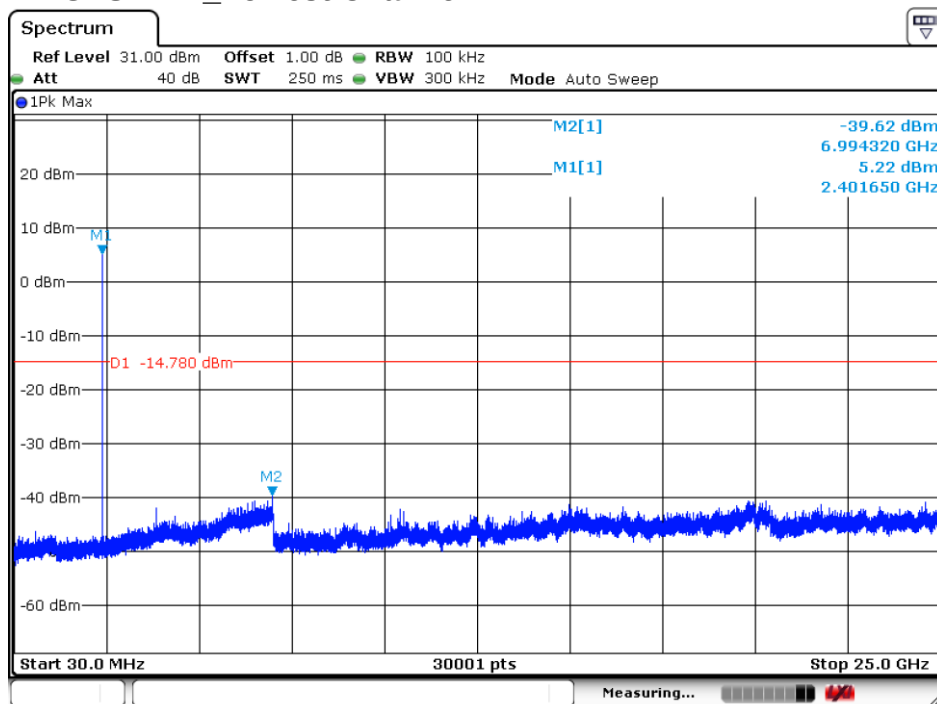


4.8.1

Test plots:

4.8.1.1

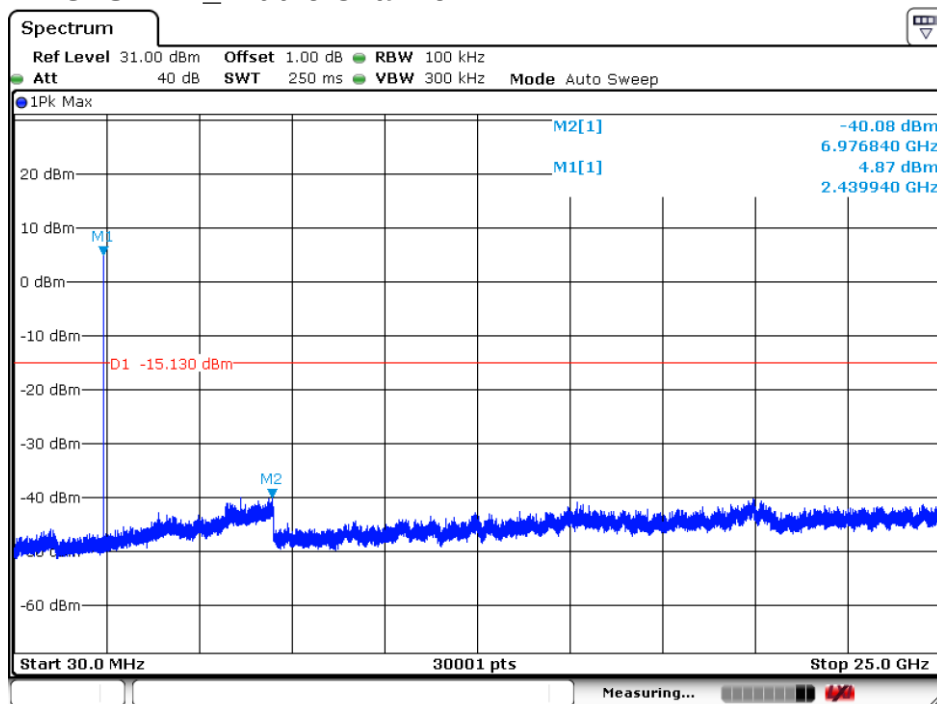
GFSK 1M_Lowest Channel



Date: 3.DEC.2020 19:18:32

4.8.1.2

GFSK 1M_Middle Channel



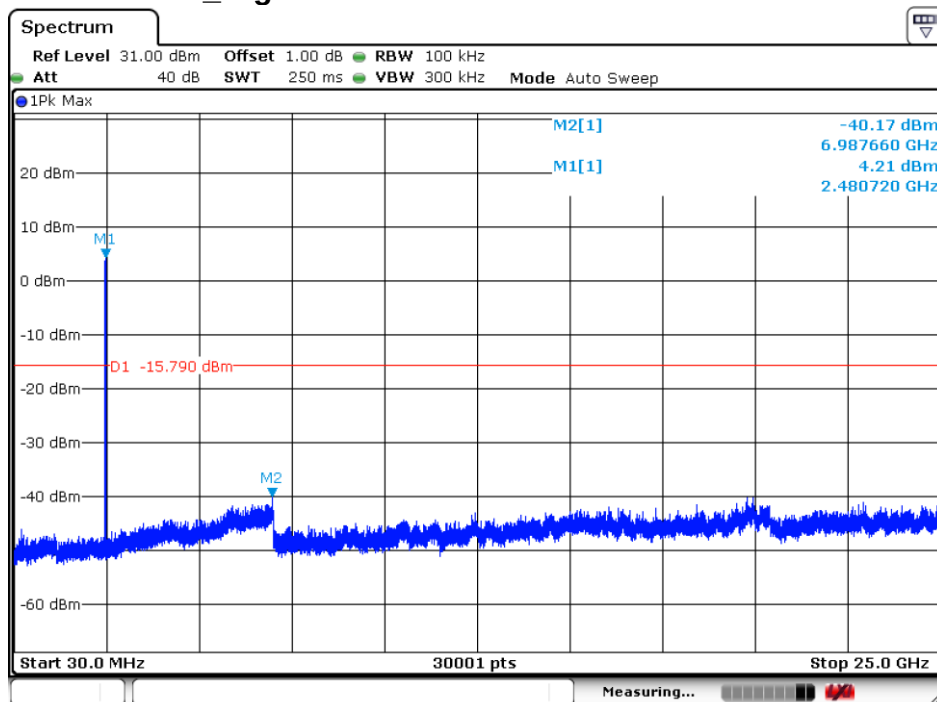
Date: 3.DEC.2020 19:23:15



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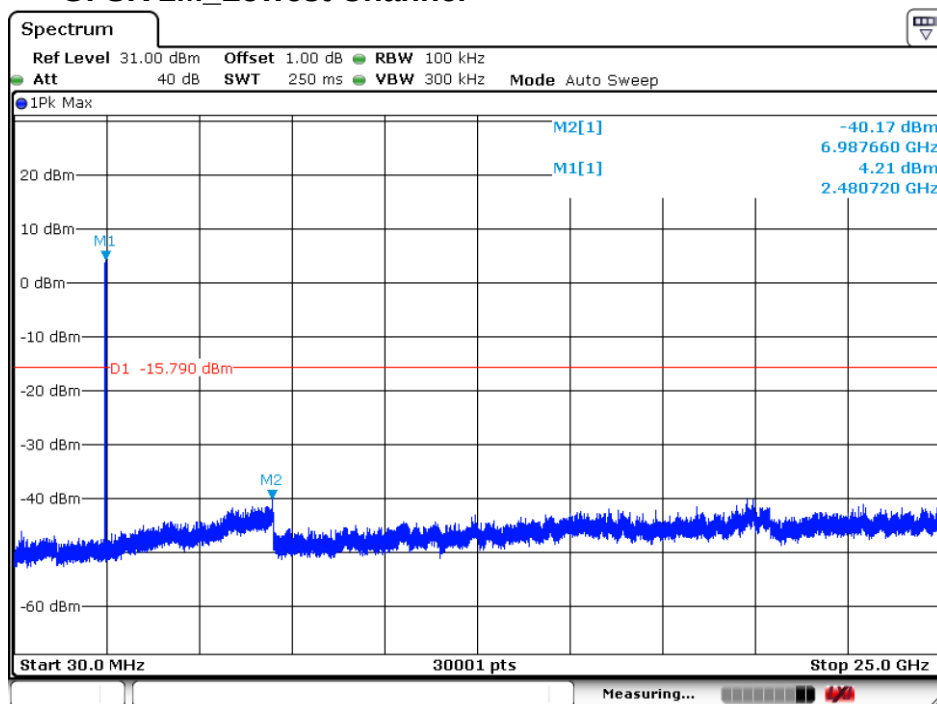
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4.8.1.3 GFSK 1M_Highest Channel



Date: 3.DEC.2020 19:25:10

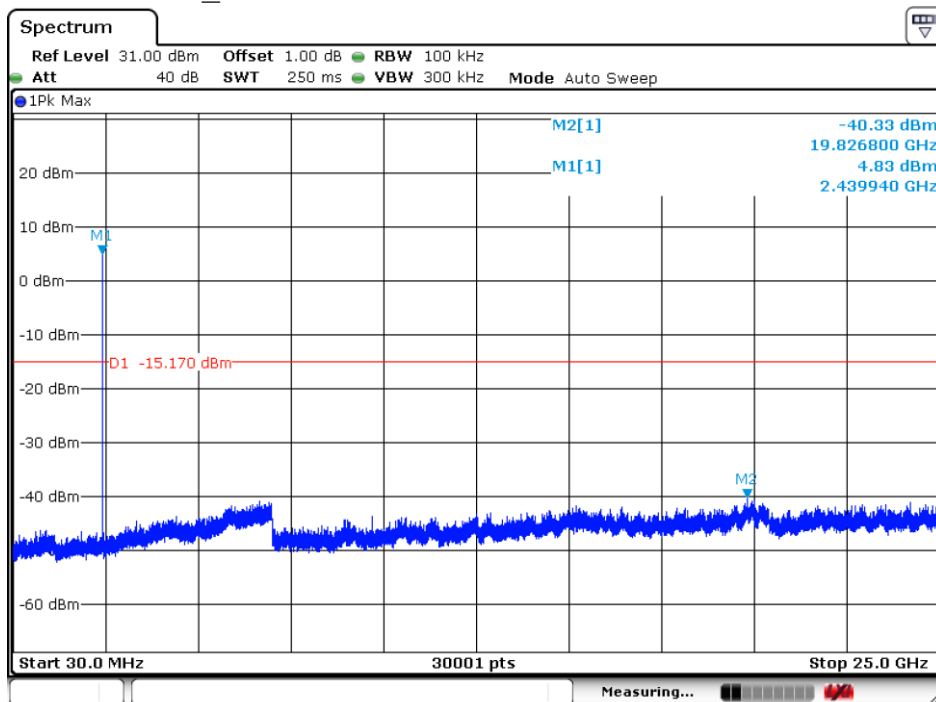
4.8.1.4 GFSK 2M_Lowest Channel



Date: 3.DEC.2020 19:25:10

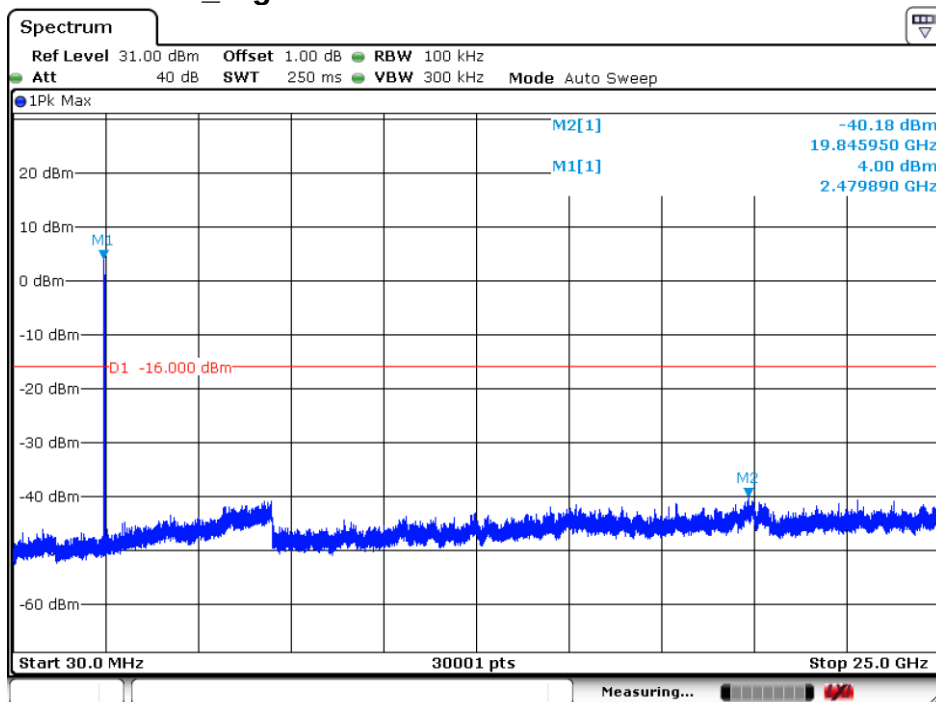


4.8.1.5 GFSK 2M_Middle Channel



Date: 3.DEC.2020 19:14:45

4.8.1.6 GFSK 2M_Highest Channel



Date: 3.DEC.2020 19:15:54





Remark:

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



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4.9 Radiated Spurious Emission

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)				
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	100 kHz	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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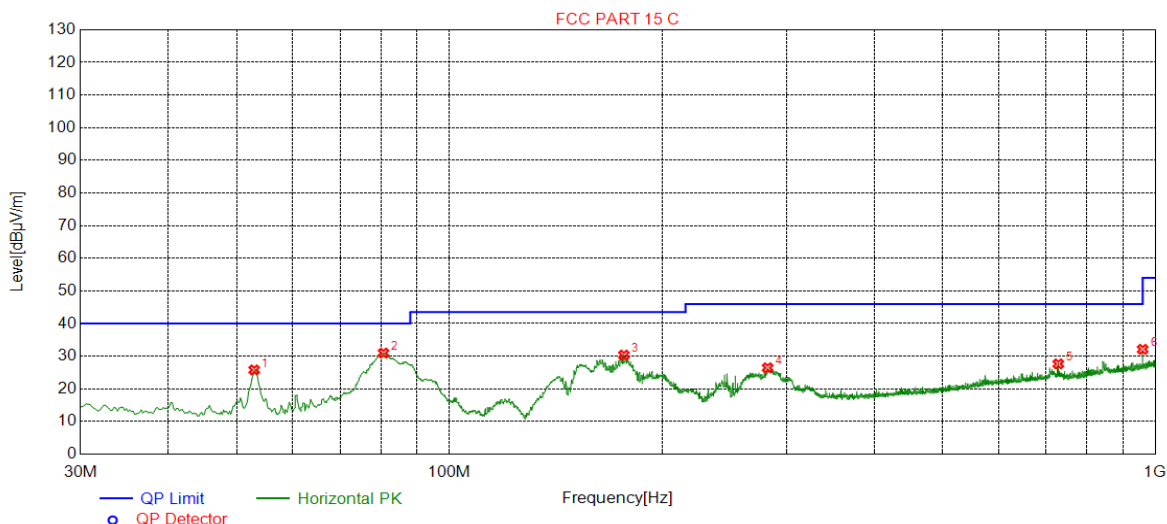
Test Setup:	
Figure 1. Below 30MHz	Figure 2. 30MHz to 1GHz
Figure 3. Above 1 GHz	Test Procedure: - For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the 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 $f < 1\text{ GHz}$, RBW=1MHz for $f > 1\text{ GHz}$; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak

	(3) For average measurement: use duty cycle correction factor method per 15.35(c). 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) 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. g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. i. Test the EUT in the lowest channel (2402MHz), the middle channel (2440MHz), the Highest channel (2480MHz) j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. k. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601



4.9.1 Radiated Emission below 1GHz

4.9.1.1 Charge + Transmitting



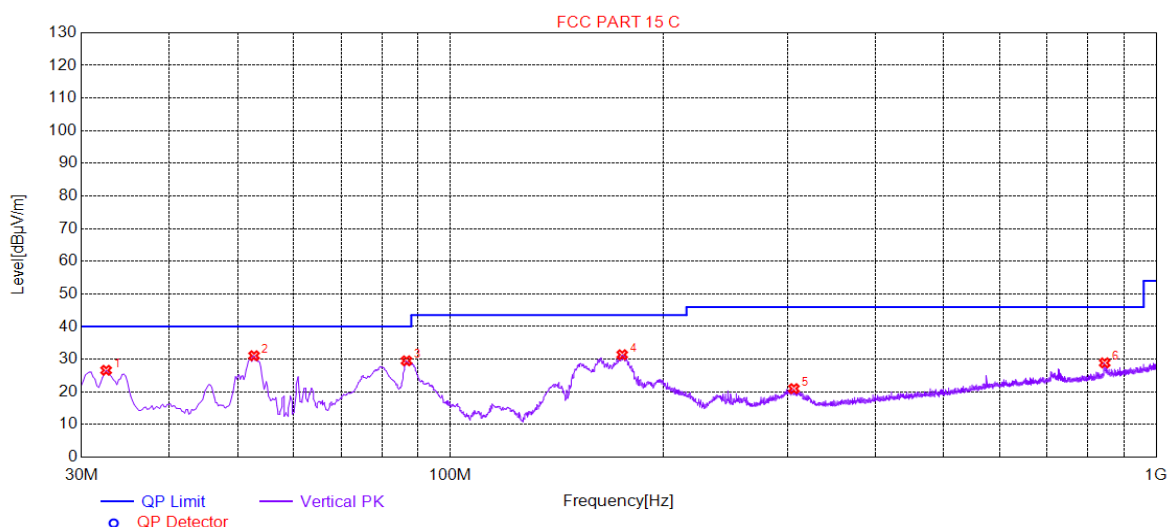
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.8966	25.81	40.00	14.19	227	220	Horizontal
2	80.6441	30.98	40.00	9.02	173	264	Horizontal
3	176.6933	30.35	43.50	13.15	199	235	Horizontal
4	282.4445	26.46	46.00	19.54	161	118	Horizontal
5	728.9278	27.66	46.00	18.34	246	66	Horizontal
6	960.0280	32.12	54.00	21.88	106	185	Horizontal

Final Data List



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Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.5225	26.62	40.00	13.38	166	180	Vertical
2	52.7025	31.08	40.00	8.92	181	255	Vertical
3	86.6593	29.52	40.00	10.48	260	278	Vertical
4	175.1410	31.39	43.50	12.11	158	359	Vertical
5	306.6993	21.00	46.00	25.00	259	203	Vertical
6	845.3511	28.89	46.00	17.11	269	357	Vertical

Final Data List



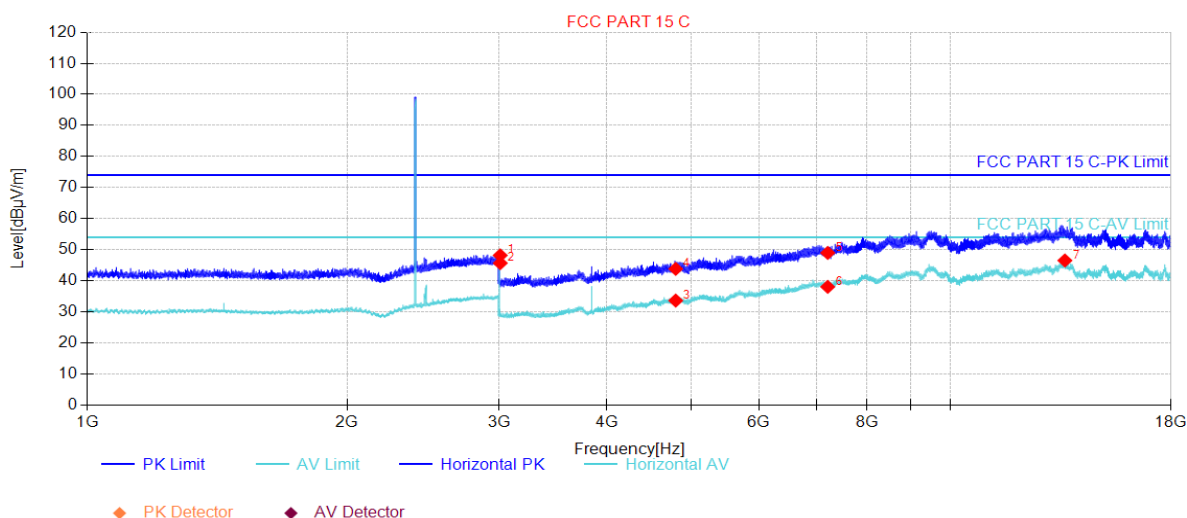
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4.9.2 Transmitter Emission above 1GHz

4.9.2.1 BLE 1M_Channel 0



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.500	48.16	-15.86	74.00	25.84	165	Horizontal
2	3009.000	45.65	-15.86	54.00	8.35	174	Horizontal
3	4804.000	33.60	-10.62	54.00	20.40	148	Horizontal
4	4804.000	43.79	-10.62	74.00	30.21	198	Horizontal
5	7206.000	48.95	-2.56	74.00	25.05	154	Horizontal
6	7206.000	38.02	-2.56	54.00	15.98	168	Horizontal
7	13563.85	46.50	4.03	54.00	7.50	150	Horizontal

Final Data List



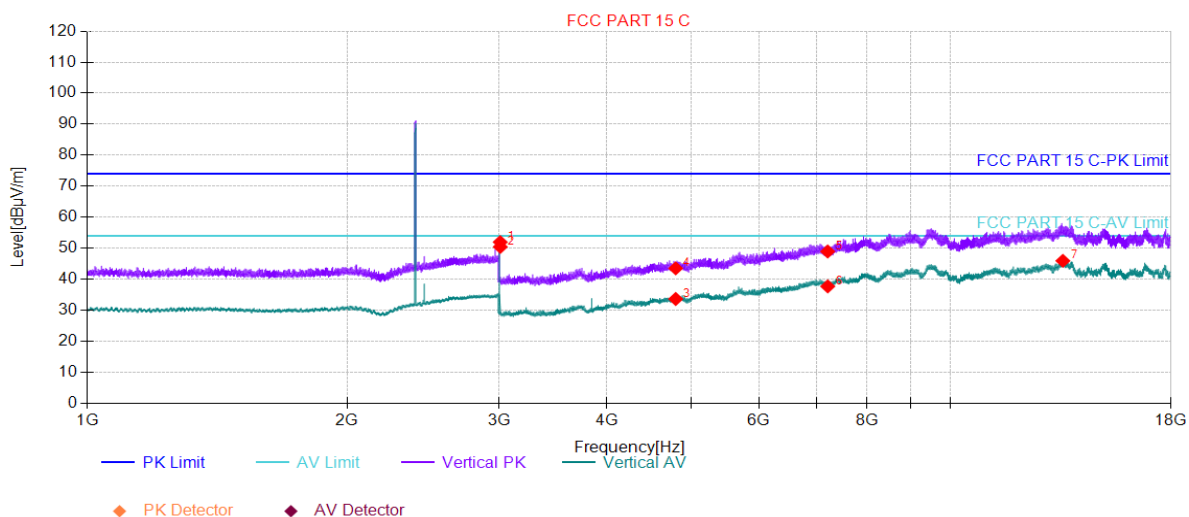
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4.9.2.2 BLE 1M_Channel 0



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.500	51.95	-15.86	74.00	22.05	248	Vertical
2	3009.000	50.41	-15.86	54.00	3.59	264	Vertical
3	4804.000	33.60	-10.62	54.00	20.40	268	Vertical
4	4804.000	43.48	-10.62	74.00	30.52	241	Vertical
5	7206.000	48.93	-2.56	74.00	25.07	267	Vertical
6	7206.000	37.67	-2.56	54.00	16.33	241	Vertical
7	13491.84	45.92	3.83	54.00	8.08	150	Vertical

Final Data List

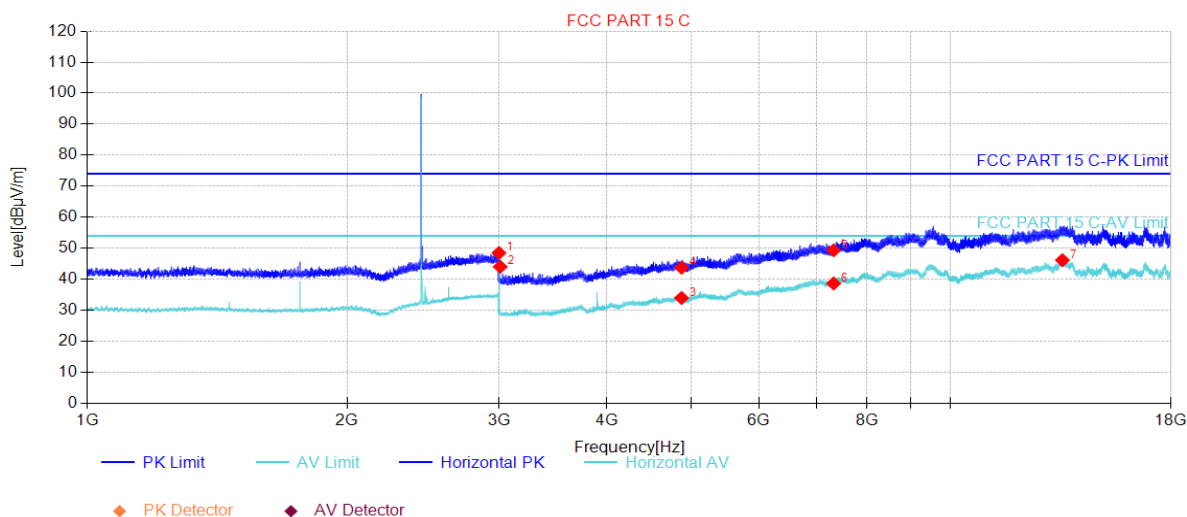


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4.9.2.3 BLE 1M_Channel 19



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2998.399	48.46	7.40	74.00	25.54	173	Horizontal
2	3008.500	44.00	-15.86	54.00	10.00	150	Horizontal
3	4880.000	33.91	-10.38	54.00	20.09	168	Horizontal
4	4880.000	43.69	-10.38	74.00	30.31	157	Horizontal
5	7320.000	49.29	-2.51	74.00	24.71	157	Horizontal
6	7320.000	38.62	-2.51	54.00	15.38	135	Horizontal
7	13476.84	46.11	3.71	54.00	7.89	150	Horizontal

Final Data List

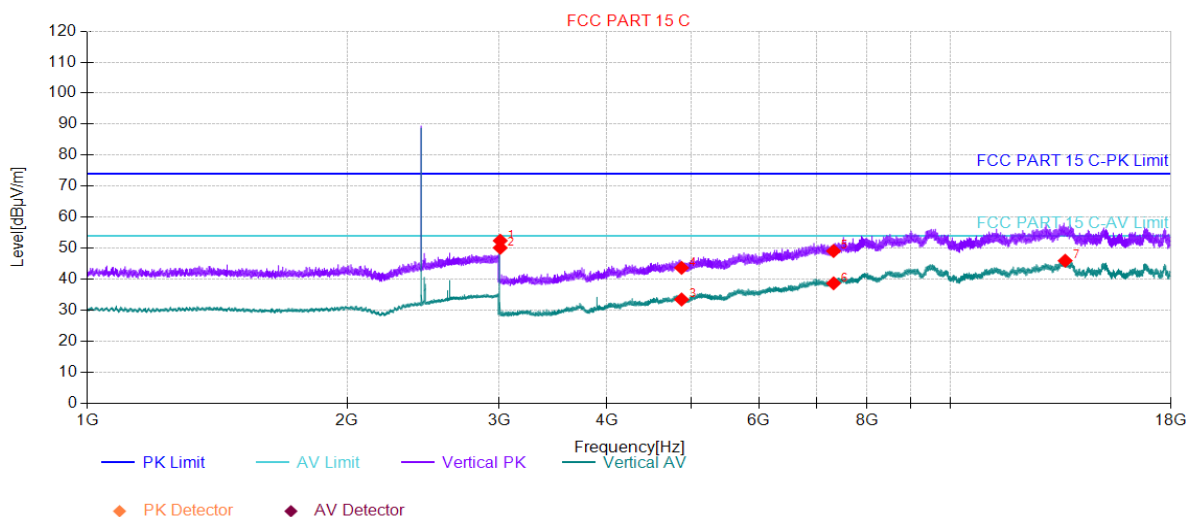


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4.9.2.4 BLE 1M_Channel 19



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.500	52.40	-15.86	74.00	21.60	274	Vertical
2	3008.500	50.12	-15.86	54.00	3.88	248	Vertical
3	4880.000	33.45	-10.38	54.00	20.55	236	Vertical
4	4880.000	43.65	-10.38	74.00	30.35	284	Vertical
5	7320.000	49.08	-2.51	74.00	24.92	247	Vertical
6	7320.000	38.66	-2.51	54.00	15.34	241	Vertical
7	13575.35	45.94	4.05	54.00	8.06	150	Vertical

Final Data List

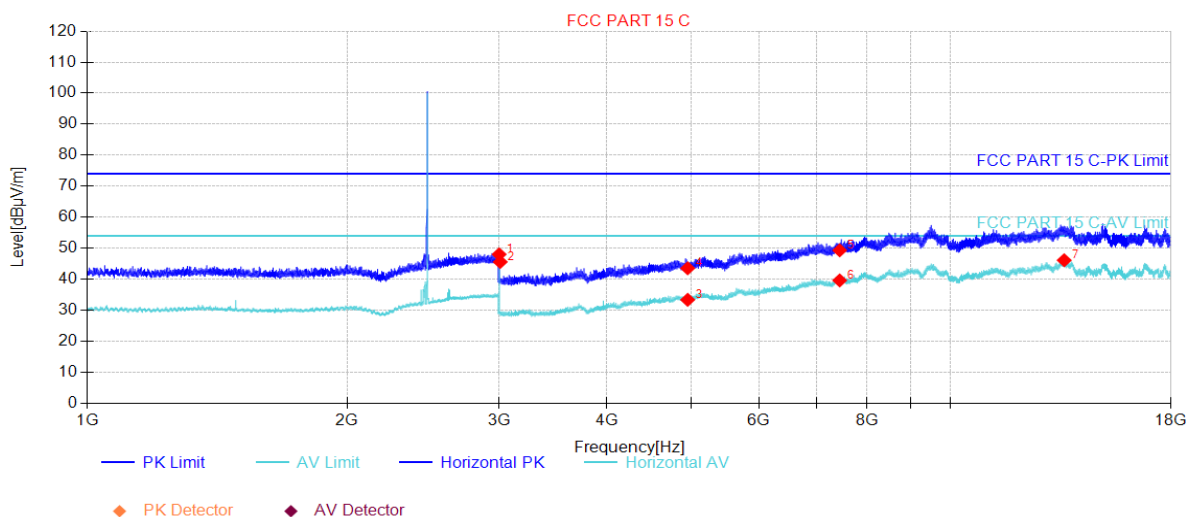


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4.9.2.5 BLE 1M_Channel 39



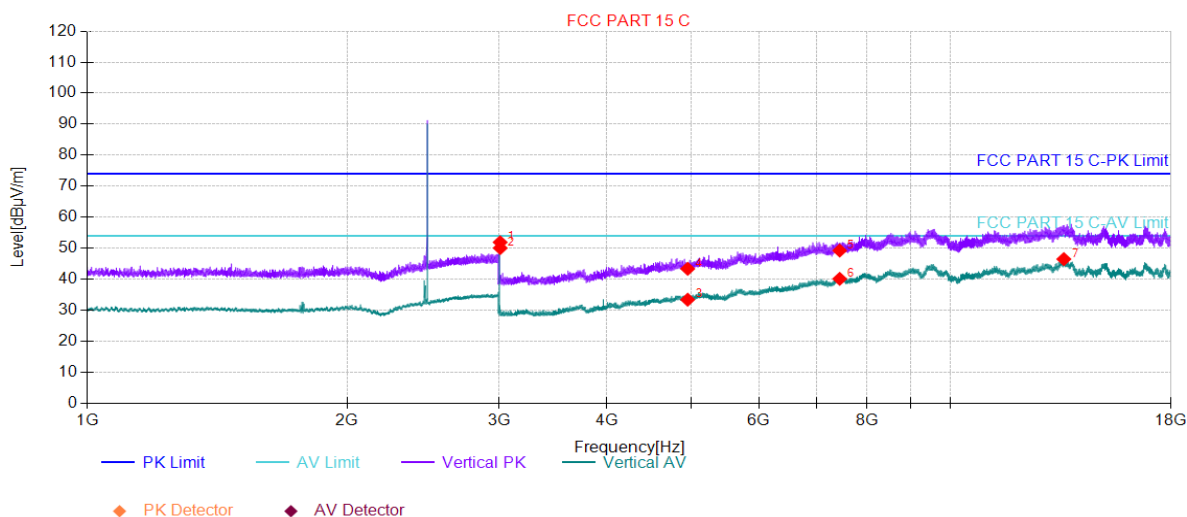
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3000.000	48.01	7.41	74.00	25.99	154	Horizontal
2	3008.500	45.55	-15.86	54.00	8.45	154	Horizontal
3	4960.000	33.33	-10.07	54.00	20.67	154	Horizontal
4	4960.000	43.51	-10.07	74.00	30.49	138	Horizontal
5	7440.000	49.31	-1.94	74.00	24.69	174	Horizontal
6	7440.000	39.58	-1.94	54.00	14.42	157	Horizontal
7	13540.35	46.10	3.98	54.00	7.90	150	Horizontal

Final Data List



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4.9.2.6 BLE 1M_Channel 39



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.000	51.90	-15.86	74.00	22.10	266	Vertical
2	3008.500	50.04	-15.86	54.00	3.96	245	Vertical
3	4960.000	33.38	-10.07	54.00	20.62	292	Vertical
4	4960.000	43.34	-10.07	74.00	30.66	274	Vertical
5	7440.000	49.23	-1.94	74.00	24.77	241	Vertical
6	7440.000	40.09	-1.94	54.00	13.91	274	Vertical
7	13527.85	46.47	3.96	54.00	7.53	150	Vertical

Final Data List

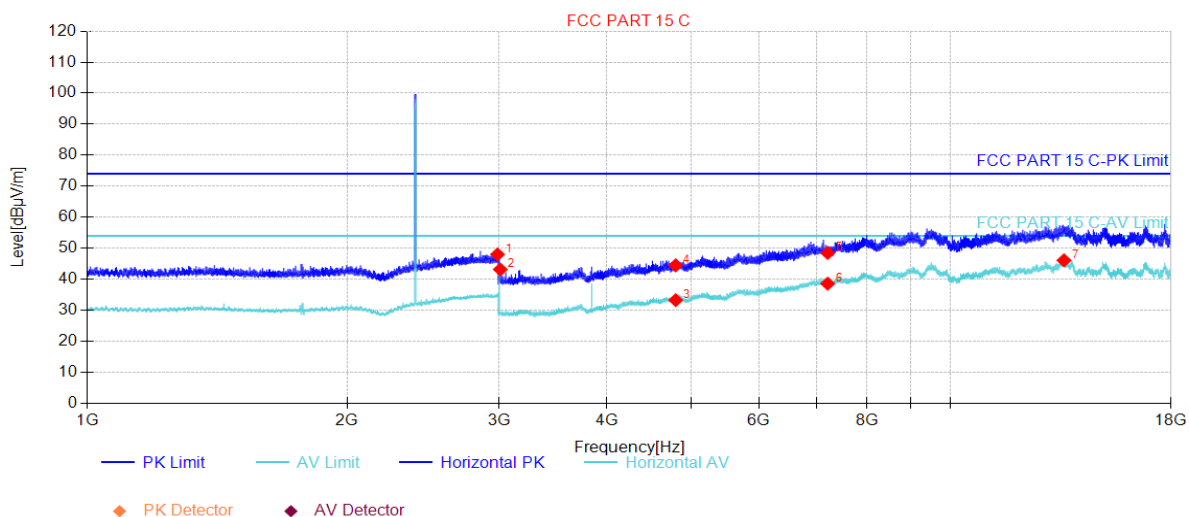


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4.9.2.7 BLE 2M_Channel 0



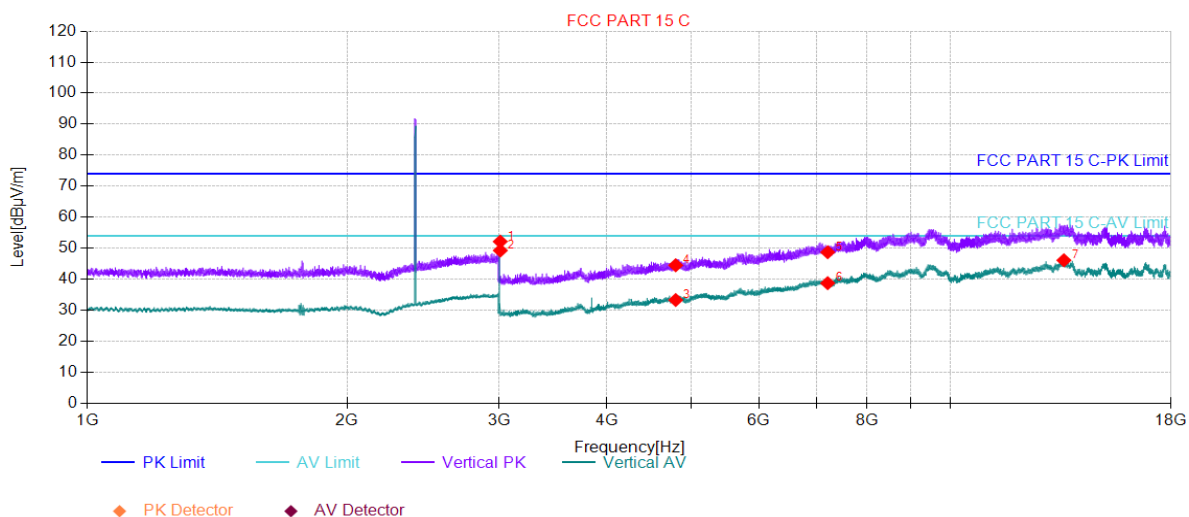
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1	2986.598	47.98	7.35	74.00	26.02	154	Horizontal
2	3009.000	43.12	-15.86	54.00	10.88	150	Horizontal
3	4804.000	33.23	-10.62	54.00	20.77	123	Horizontal
4	4804.000	44.44	-10.62	74.00	29.56	168	Horizontal
5	7206.000	48.45	-2.56	74.00	25.55	174	Horizontal
6	7206.000	38.55	-2.56	54.00	15.45	138	Horizontal
7	13530.35	46.07	3.96	54.00	7.93	150	Horizontal

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4.9.2.8 BLE 2M_Channel 0



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.500	52.13	-15.86	74.00	21.87	239	Vertical
2	3009.000	49.24	-15.86	54.00	4.76	295	Vertical
3	4804.000	33.27	-10.62	54.00	20.73	241	Vertical
4	4804.000	44.49	-10.62	74.00	29.51	248	Vertical
5	7206.000	48.69	-2.56	74.00	25.31	287	Vertical
6	7206.000	38.71	-2.56	54.00	15.29	271	Vertical
7	13529.35	46.08	3.96	54.00	7.92	150	Vertical

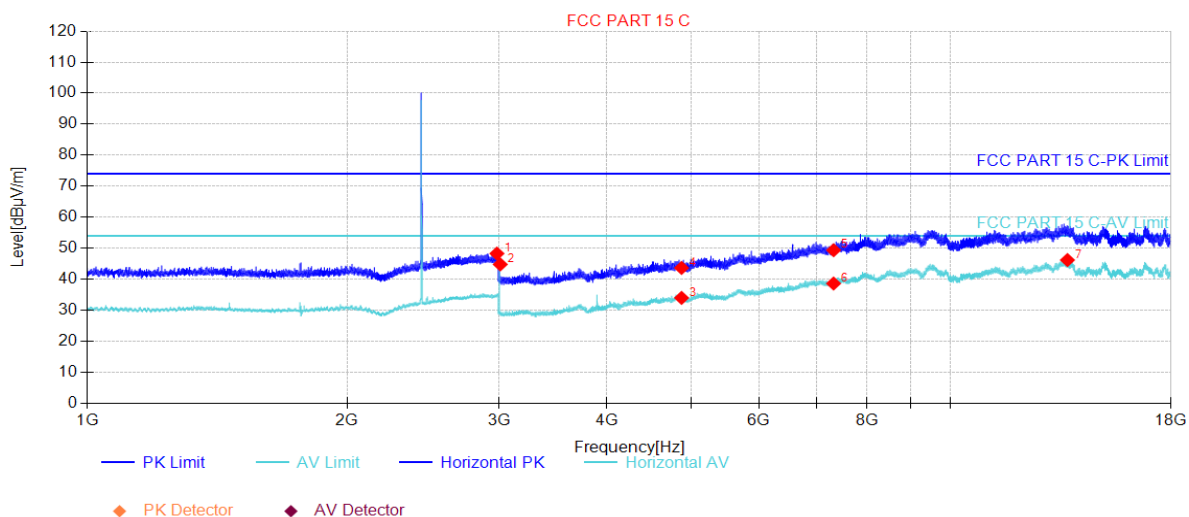
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4.9.2.9 BLE 2M_Channel 19



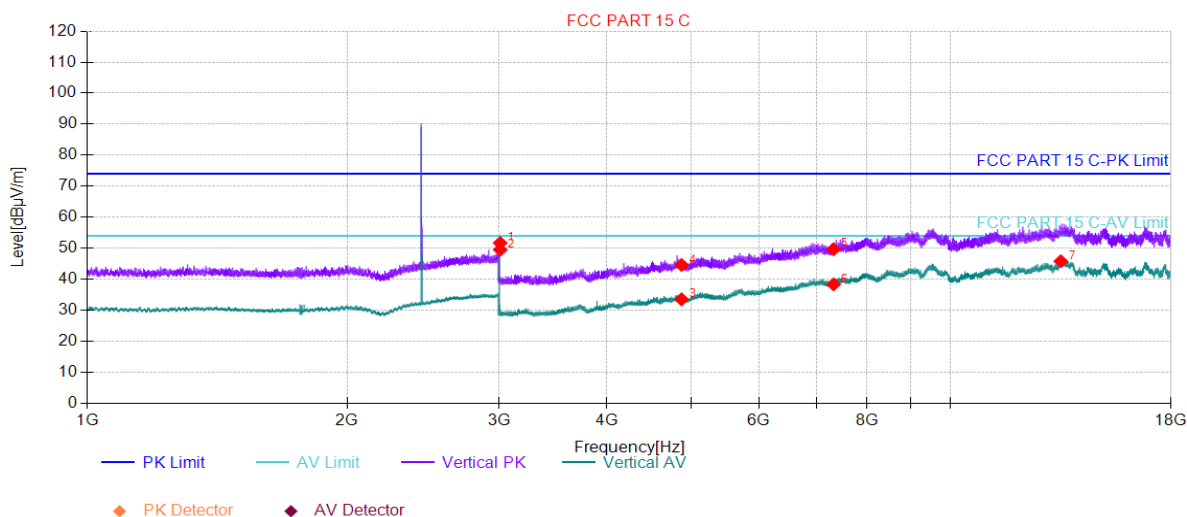
Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2982.198	48.26	7.33	74.00	25.74	139	Horizontal
2	3008.500	44.76	-15.86	54.00	9.24	145	Horizontal
3	4880.000	33.95	-10.38	54.00	20.05	123	Horizontal
4	4880.000	43.62	-10.38	74.00	30.38	151	Horizontal
5	7320.000	49.34	-2.51	74.00	24.66	155	Horizontal
6	7320.000	38.59	-2.51	54.00	15.41	164	Horizontal
7	13657.85	46.17	4.02	54.00	7.83	150	Horizontal

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4.9.2.10 BLE 2M_Channel 19



Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.000	51.68	-15.86	74.00	22.32	267	Vertical
2	3008.500	49.48	-15.86	54.00	4.52	248	Vertical
3	4880.000	33.48	-10.38	54.00	20.52	248	Vertical
4	4880.000	44.58	-10.38	74.00	29.42	274	Vertical
5	7320.000	49.66	-2.51	74.00	24.34	241	Vertical
6	7320.000	38.31	-2.51	54.00	15.69	268	Vertical
7	13419.34	45.77	3.21	54.00	8.23	150	Vertical

Final Data List



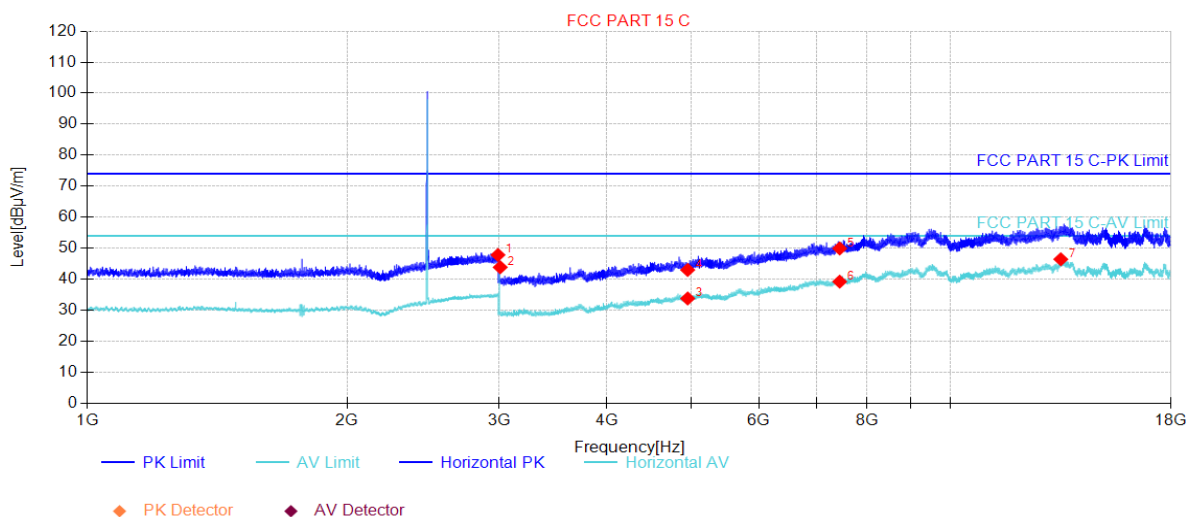
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4.9.2.11 BLE 2M_Channel 39



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2990.599	47.81	7.37	74.00	26.19	157	Horizontal
2	3008.500	43.83	-15.86	54.00	10.17	168	Horizontal
3	4960.000	33.76	-10.07	54.00	20.24	154	Horizontal
4	4960.000	42.96	-10.07	74.00	31.04	164	Horizontal
5	7440.000	49.90	-1.94	74.00	24.10	162	Horizontal
6	7440.000	39.20	-1.94	54.00	14.80	167	Horizontal
7	13418.34	46.41	3.20	54.00	7.59	150	Horizontal

Final Data List

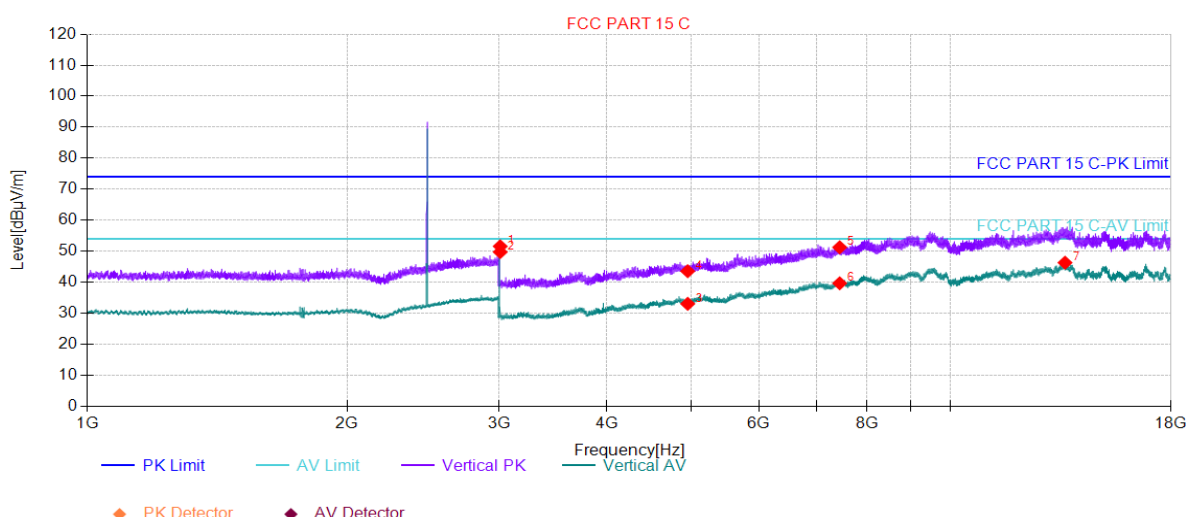


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4.9.2.12 BLE 2M_Channel 39



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	3008.500	51.56	-15.86	74.00	22.44	265	Vertical
2	3008.500	49.72	-15.86	54.00	4.28	277	Vertical
3	4960.000	33.01	-10.07	54.00	20.99	232	Vertical
4	4960.000	43.54	-10.07	74.00	30.46	284	Vertical
5	7440.000	51.24	-1.94	74.00	22.76	274	Vertical
6	7440.000	39.62	-1.94	54.00	14.38	252	Vertical
7	13570.35	46.29	4.04	54.00	7.71	150	Vertical

Final Data List

Remark:

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

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 or 10m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value
Test Setup:			

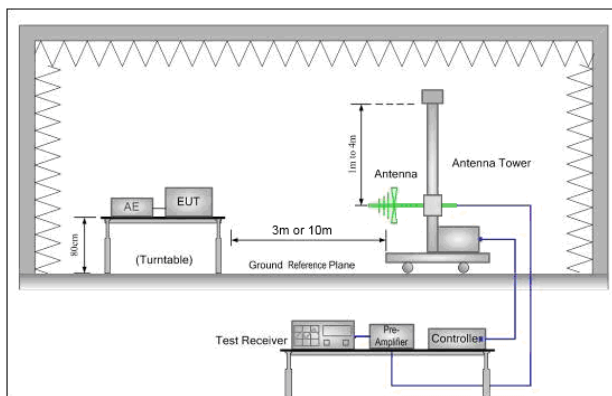


Figure 1. 30MHz to 1GHz

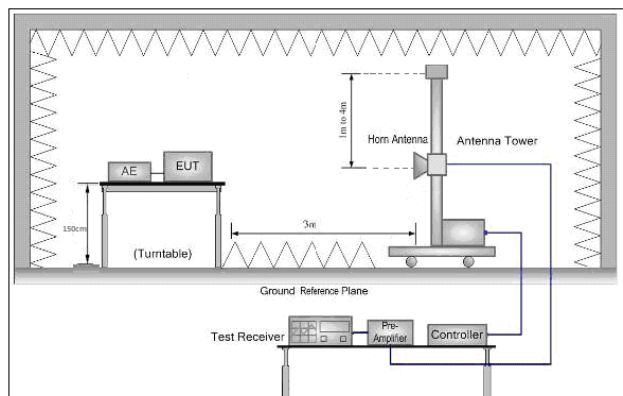


Figure 2. Above 1 GHz

Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel, the Highest channel
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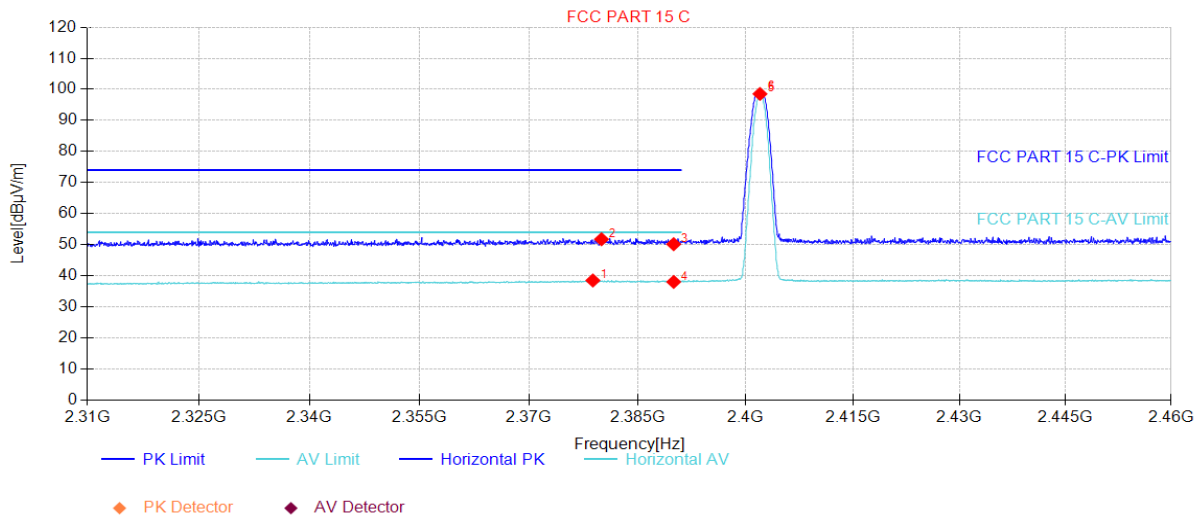


	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass
Remark:	The Emission Test data were reused from the report no:XZR/2020/B001601



4.10.1 Test plots

4.10.1.1 BLE 1M_Channel 0



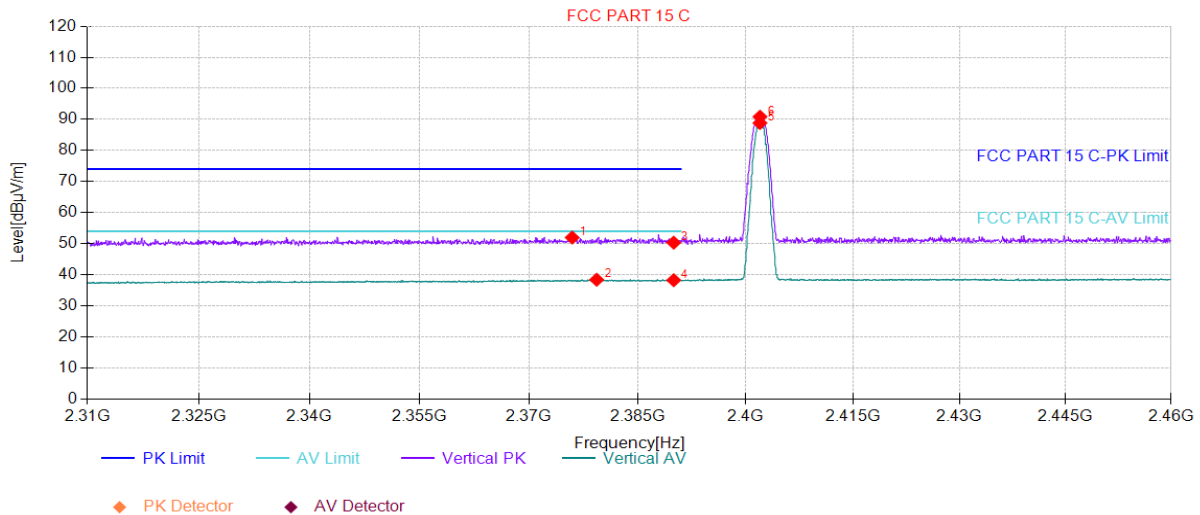
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2378.809	38.45	4.26	54.00	15.55	157	Horizontal
2	2380.010	51.73	4.26	74.00	22.27	154	Horizontal
3	2390.000	50.14	4.31	74.00	23.86	156	Horizontal
4	2390.000	38.00	4.31	54.00	16.00	144	Horizontal
5	2402.000	98.53	4.35	0.00	-98.53	135	Horizontal
6	2402.000	99.14	4.35	0.00	-99.14	188	Horizontal

Final Data List



4.10.1.2 BLE 1M_Channel 0



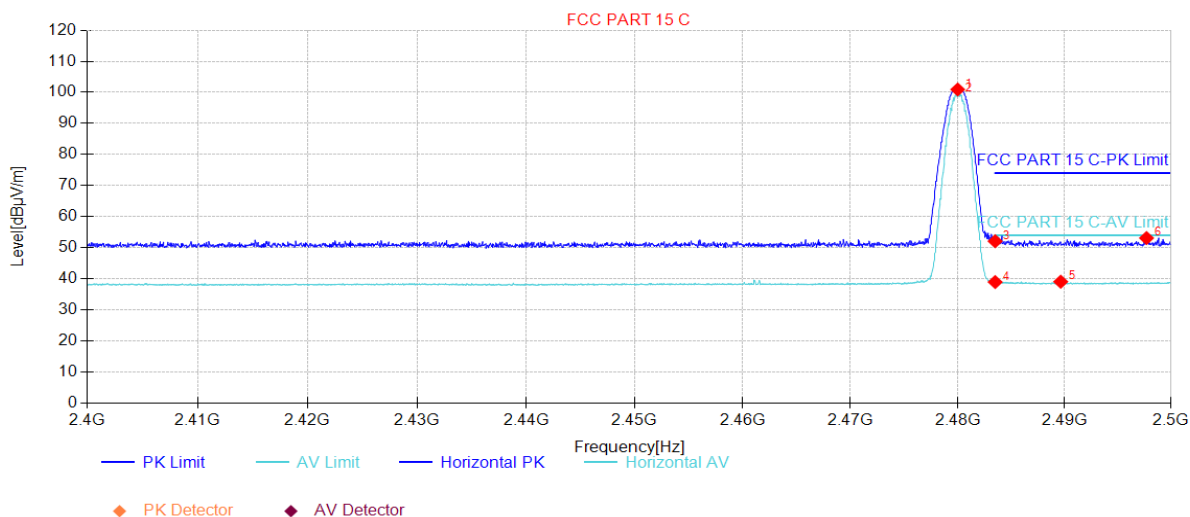
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2375.958	51.95	4.25	74.00	22.05	245	Vertical
2	2379.334	38.38	4.26	54.00	15.62	264	Vertical
3	2390.000	50.31	4.31	74.00	23.69	241	Vertical
4	2390.000	38.22	4.31	54.00	15.78	236	Vertical
5	2402.000	88.84	4.35	0.00	-88.84	244	Vertical
6	2402.000	90.87	4.35	0.00	-90.87	288	Vertical

Final Data List



4.10.1.3 BLE 1M_Channel 39



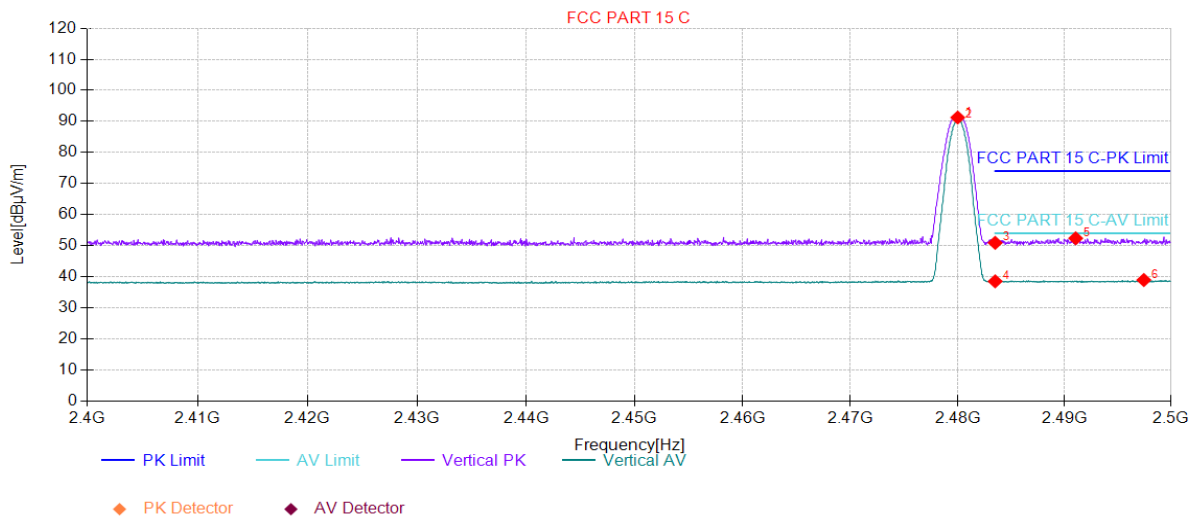
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2480.000	100.93	4.46	0.00	-100.93	145	Horizontal
2	2480.000	99.73	4.46	0.00	-99.73	174	Horizontal
3	2483.500	52.06	4.47	74.00	21.94	168	Horizontal
4	2483.500	38.91	4.47	54.00	15.09	177	Horizontal
5	2489.644	39.02	4.48	54.00	14.98	135	Horizontal
6	2497.698	53.08	4.49	74.00	20.92	174	Horizontal

Final Data List



4.10.1.4 BLE 1M_Channel 39



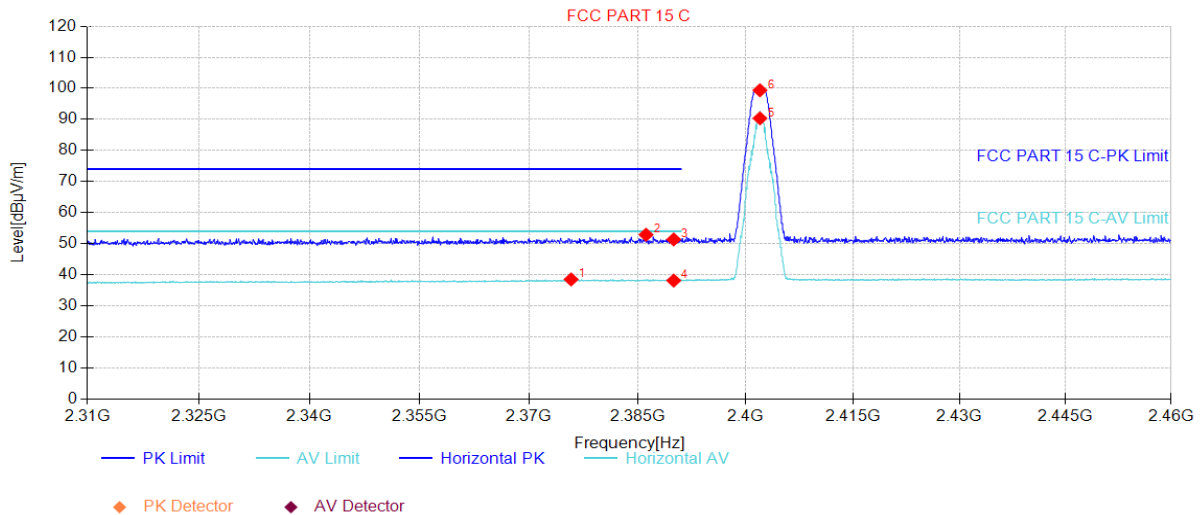
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2480.000	91.25	4.46	0.00	-91.25	245	Vertical
2	2480.000	90.51	4.46	0.00	-90.51	244	Vertical
3	2483.500	50.89	4.47	74.00	23.11	278	Vertical
4	2483.500	38.50	4.47	54.00	15.50	278	Vertical
5	2491.045	52.37	4.48	74.00	21.63	298	Vertical
6	2497.448	38.92	4.49	54.00	15.08	233	Vertical

Final Data List



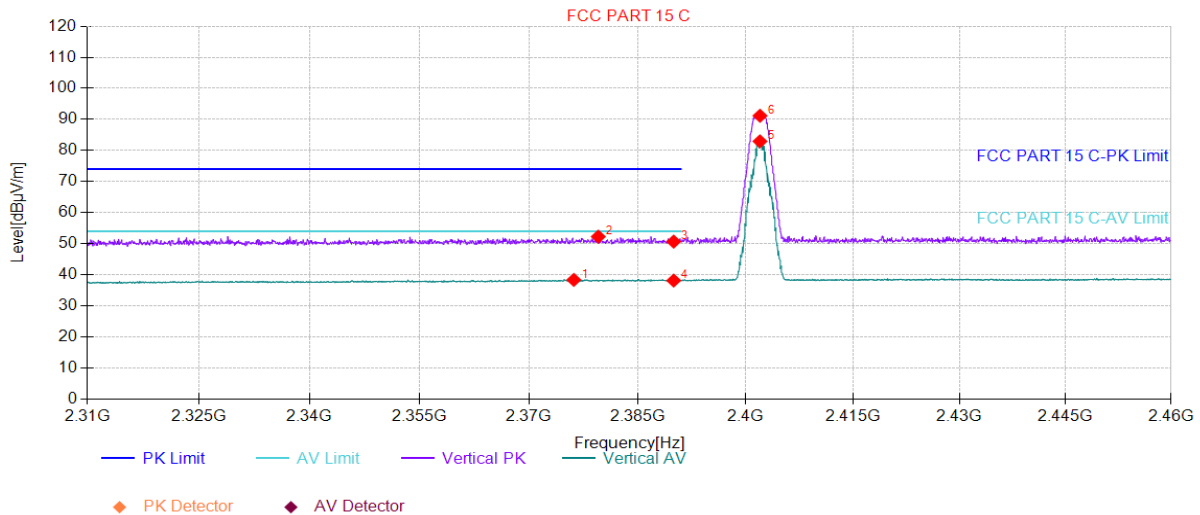
4.10.1.5 BLE 2M_Channel 0



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2375.807	38.48	4.25	54.00	15.52	184	Horizontal
2	2386.163	52.86	4.29	74.00	21.14	167	Horizontal
3	2390.000	51.35	4.31	74.00	22.65	165	Horizontal
4	2390.000	38.10	4.31	54.00	15.90	162	Horizontal
5	2402.000	90.35	4.35	0.00	-90.35	210	Horizontal
6	2402.000	99.38	4.35	0.00	-99.38	122	Horizontal

Final Data List

4.10.1.6 BLE 2M_Channel 0



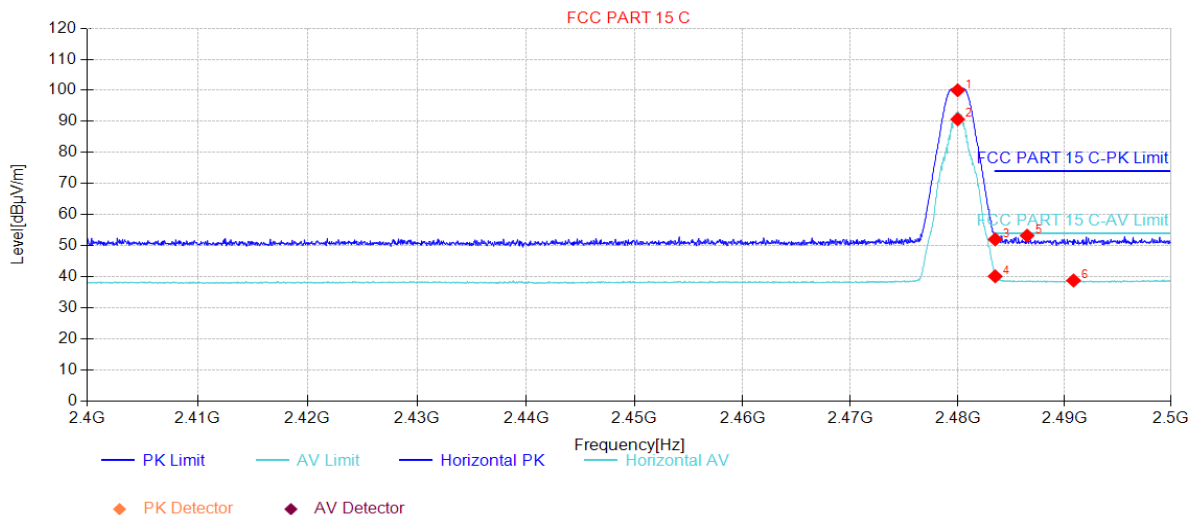
Suspected List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2376.183	38.33	4.25	54.00	15.67	245	Vertical
2	2379.559	52.25	4.26	74.00	21.75	264	Vertical
3	2390.000	50.65	4.31	74.00	23.35	268	Vertical
4	2390.000	38.11	4.31	54.00	15.89	248	Vertical
5	2402.000	82.94	4.35	0.00	-82.94	268	Vertical
6	2402.000	91.18	4.35	0.00	-91.18	284	Vertical

Final Data List



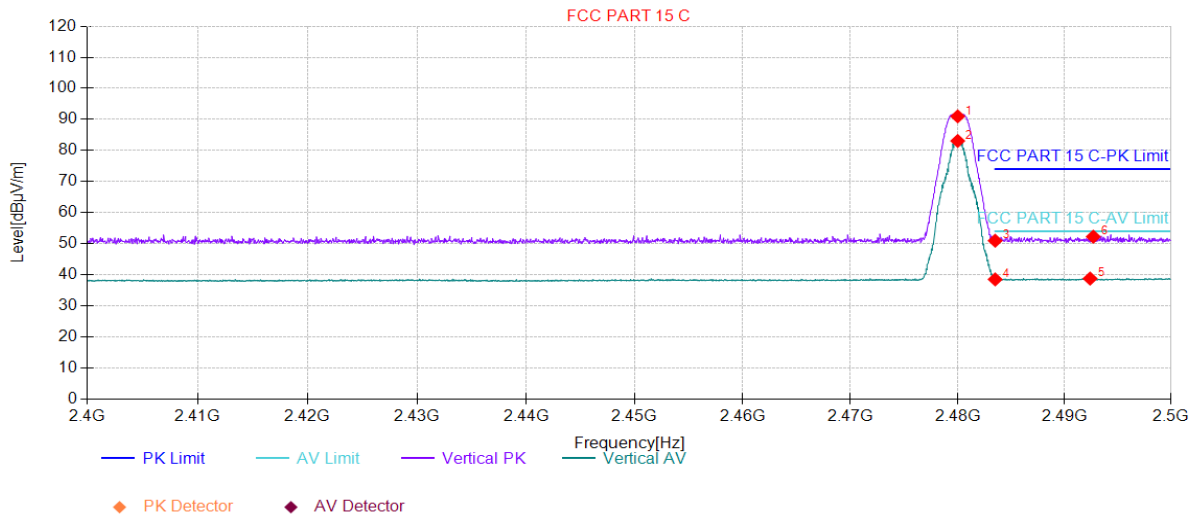
4.10.1.7 BLE 2M_Channel 39



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2480.000	100.02	4.46	0.00	-100.02	180	Horizontal
2	2480.000	90.67	4.46	0.00	-90.67	171	Horizontal
3	2483.500	52.00	4.47	74.00	22.00	216	Horizontal
4	2483.500	40.13	4.47	54.00	13.87	168	Horizontal
5	2486.493	53.22	4.47	74.00	20.78	162	Horizontal
6	2490.845	38.76	4.48	54.00	15.24	151	Horizontal

Final Data List

4.10.1.8 BLE 2M_Channel 39



Suspected List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Polarity
1	2480.000	90.98	4.46	0.00	-90.98	245	Vertical
2	2480.000	83.07	4.46	0.00	-83.07	268	Vertical
3	2483.500	50.94	4.47	74.00	23.06	268	Vertical
4	2483.500	38.48	4.47	54.00	15.52	244	Vertical
5	2492.396	38.75	4.48	54.00	15.25	264	Vertical
6	2492.696	52.23	4.48	74.00	21.77	274	Vertical

Final Data List

Remark:

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

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

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



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

Lab A:

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

Lab B:

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



6 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
DC Power Supply	Agilent Technologies Inc	66311B	W009-09	2020/7/15	2021/7/15
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2021/1/3	2022/1/2
				2020/1/4	2021/1/3
Coaxial Cable	SGS	N/A	SEM031-01	2020/6/12	2021/6/11
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020/7/14	2021/7/14
Temperature Chamber	GIANT FORCE	ICT-150-40-CP AR	W027-03	2020/10/27	2021/10/27
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/14

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





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

7 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of Set-Up for ZR/2020/B0016.

The End



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