

Report No.: SUAR/2021/B000704

Rev.: 01

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TEST REPORT

Application No.: AR/2021/B0007
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: 21121210G
Trade Mark: POCO
FCC ID: 2AFZZ1210G
Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C
Date of Receipt: 2021/12/8
Date of Test: 2021/12/30 to 2022/1/20
Date of Issue: 2022/1/23

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

Authorized Signature:

Panta Sun

Panta Sun
Wireless Laboratory Manager



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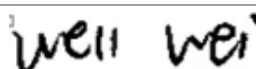
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/1/23		Original

Prepared By		 (Weller Liu) / Engineer
Checked By		 (Well Wei) / Reviewer



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2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
Antenna Requirement	15.203/247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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3 General Information

3.1 Details of Client

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

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Weller Liu, King-p Li, Nature Shen, Tizzy Song

3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number:0031225543



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3.4 General Description of EUT

EUT Description:	Mobile Phone		
Model No.:	21121210G		
Trade Mark:	POCO		
Hardware Version:	P2		
Software Version:	MIUI 13		
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 V5.2		
Modulation Type:	GFSK		
Number of Channel:	40		
Rates Type:	☒ Provided by applicant		
	1M PHY	2M PHY	
Sample Type:	☒ Portable Device, ☐ Module		
Antenna Type:	IFA Antenna		
Antenna Gain*:	☒ Provided by applicant		
	0.57dBi(ANT16); -2.07dBi(ANT18);		
RF Cable*:	☒ Provided by applicant		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
Remark:			
*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			



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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

Environment Parameter	101.0KPa Selected Values During Tests	
Relative Humidity	44~46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~24	7.74
LTNV	0	7.74
HTNV	40	7.74
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

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 and no consideration of replacement. The best case gain of the ANT16 is 0.57dBi and ANT18 is -2.07dBi.	



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4.2 AC Power Line Conducted Emissions

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



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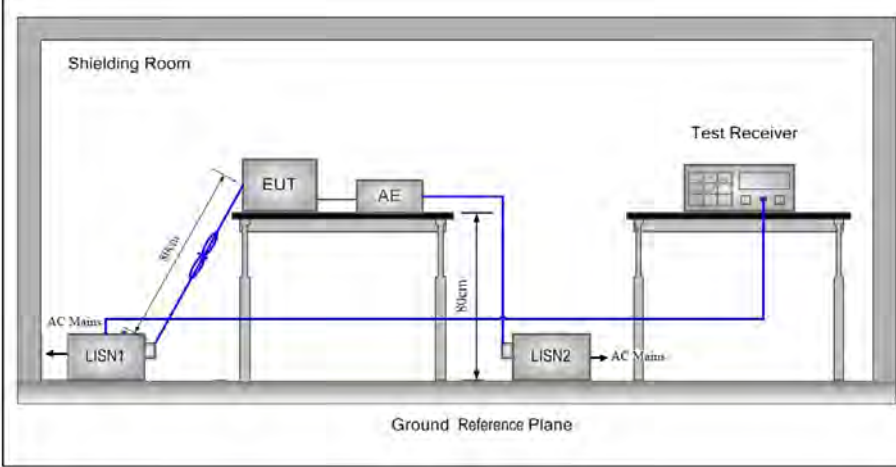
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Test Setup:	
Test Mode:	Transmitting with GFSK modulation. Charge +Transmitting mode.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass



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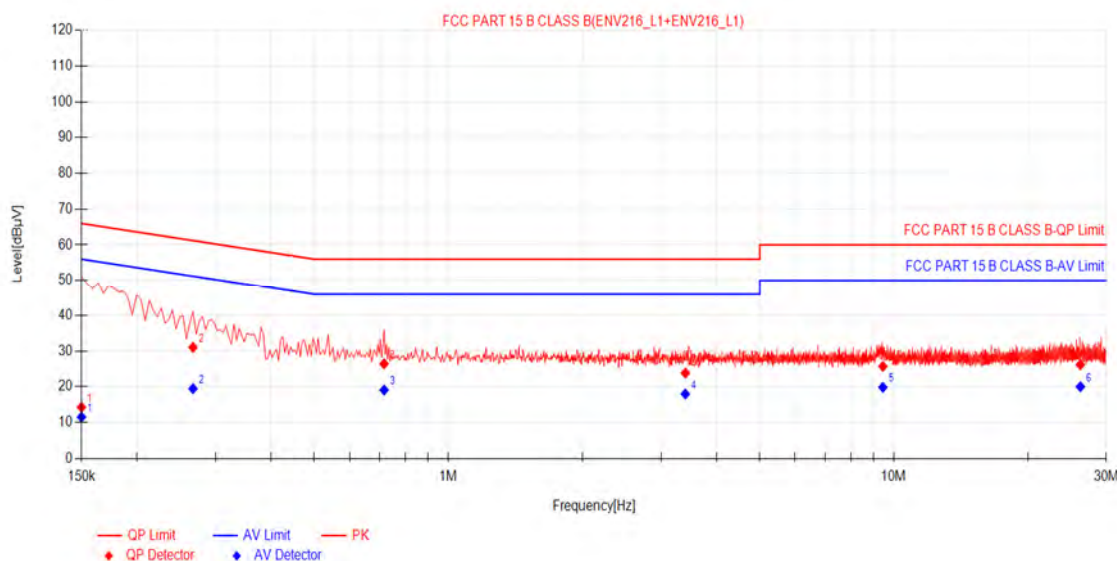
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Measurement Data

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

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

Live Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1500	10.63	14.26	66.00	51.74	11.49	56.00	44.51	PASS
2	0.2670	10.74	31.06	61.21	30.15	19.47	51.21	31.74	PASS
3	0.7170	10.57	26.43	56.00	29.57	19.07	46.00	26.93	PASS
4	3.4035	10.70	23.84	56.00	32.16	17.98	46.00	28.02	PASS
5	9.4515	10.65	25.73	60.00	34.27	19.84	50.00	30.16	PASS
6	26.2410	10.28	26.17	60.00	33.83	20.02	50.00	29.98	PASS

Remark:

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



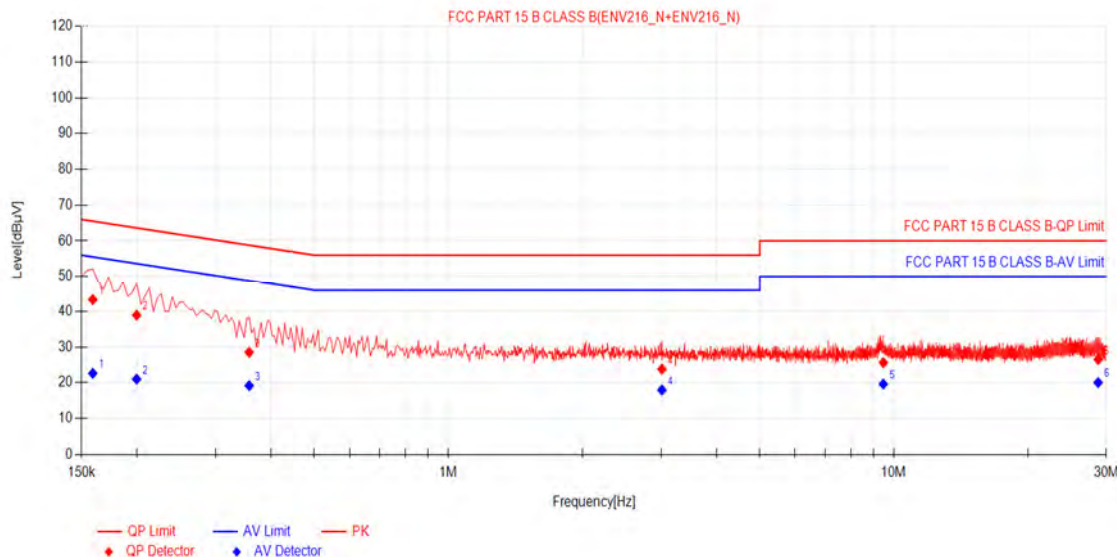
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Neutral Line:



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]	Verdict
1	0.1590	10.72	43.33	65.52	22.19	22.64	55.52	32.88	PASS
2	0.1995	10.66	38.96	63.63	24.67	21.01	53.63	32.62	PASS
3	0.3570	10.81	28.54	58.80	30.26	19.19	48.80	29.61	PASS
4	3.0165	10.59	23.83	56.00	32.17	17.96	46.00	28.04	PASS
5	9.4740	10.64	25.65	60.00	34.35	19.63	50.00	30.37	PASS
6	28.7655	10.45	26.53	60.00	33.47	20.06	50.00	29.94	PASS

Remark:

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

The detailed test data see: **Appendix**



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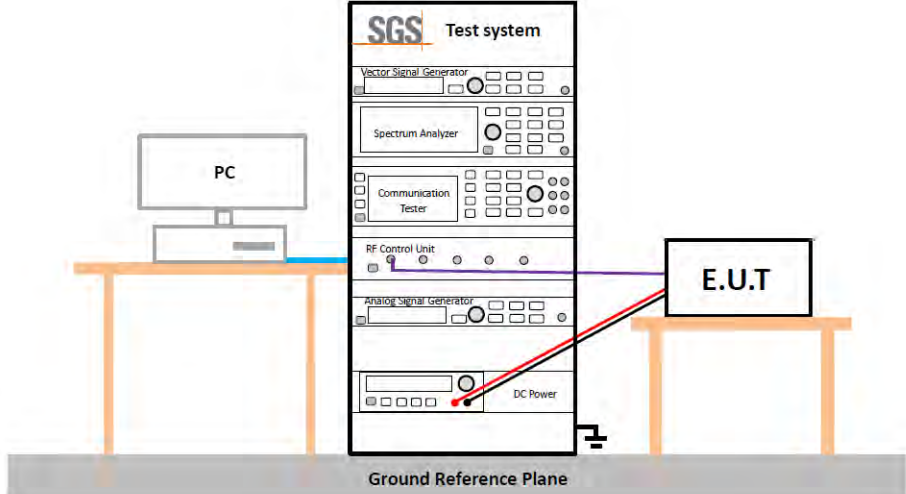
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4.4 Conducted Output Power

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



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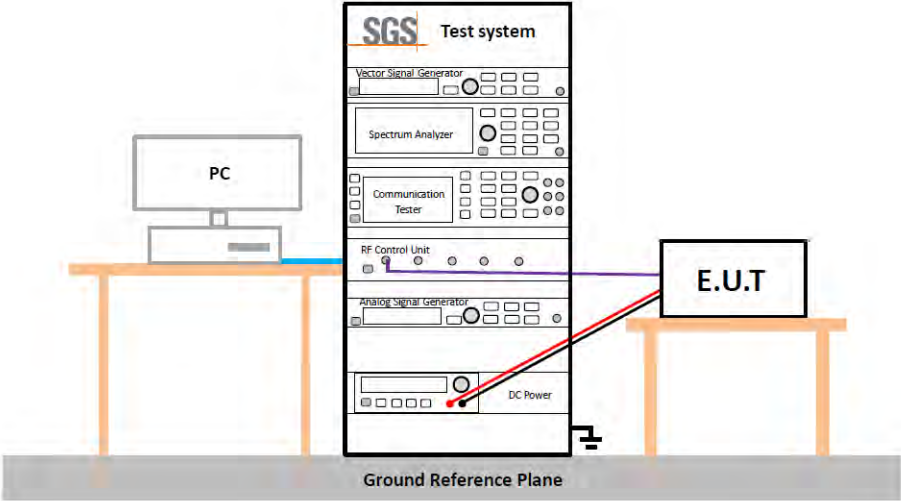
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4.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz
Test Results:	Pass
The detailed test data see: Appendix	



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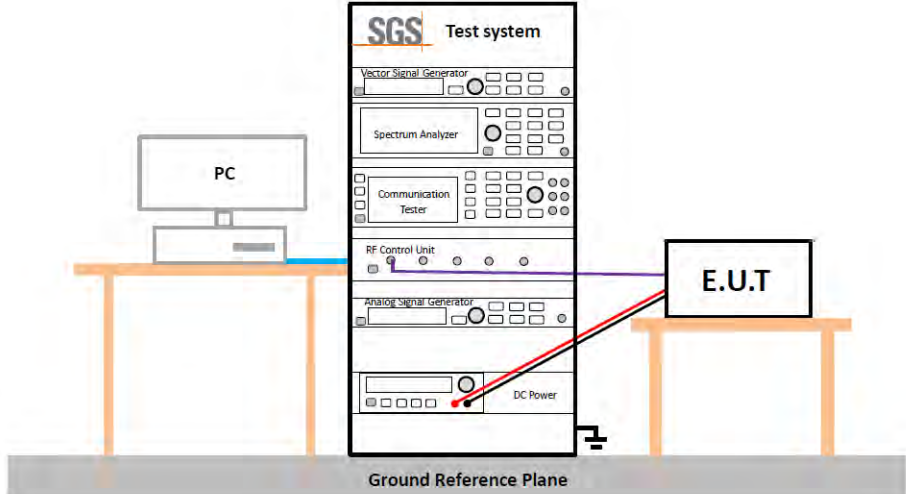
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4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: Appendix	



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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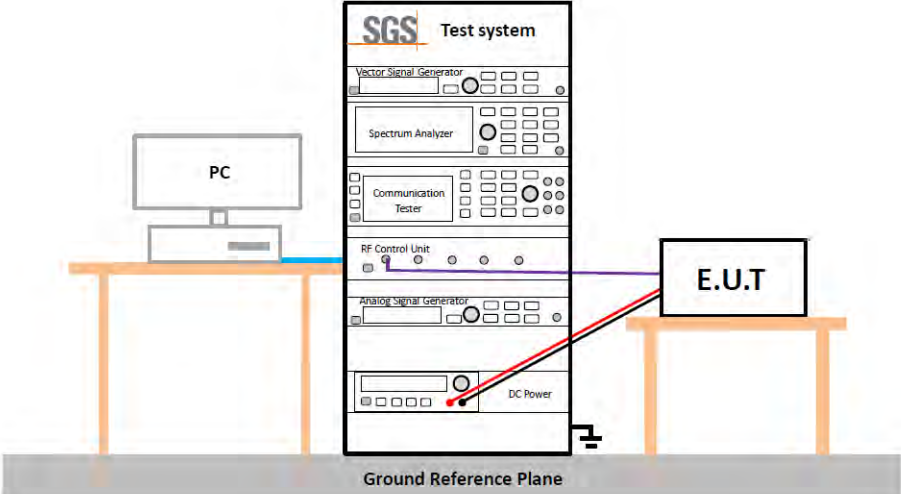
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4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					

Test Setup:

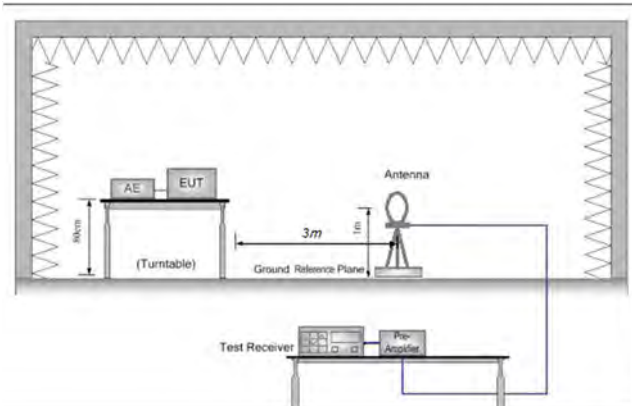


Figure 1. Below 30MHz

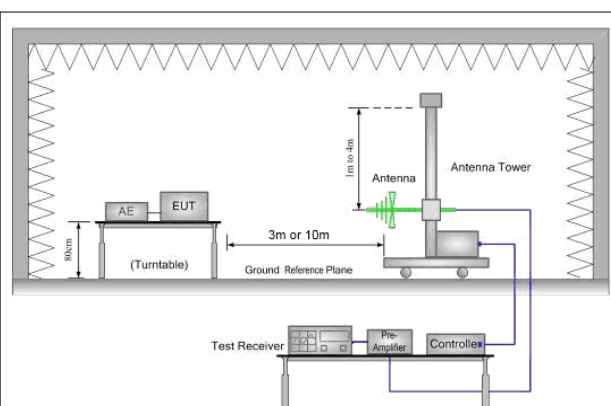


Figure 2. 30MHz to 1GHz



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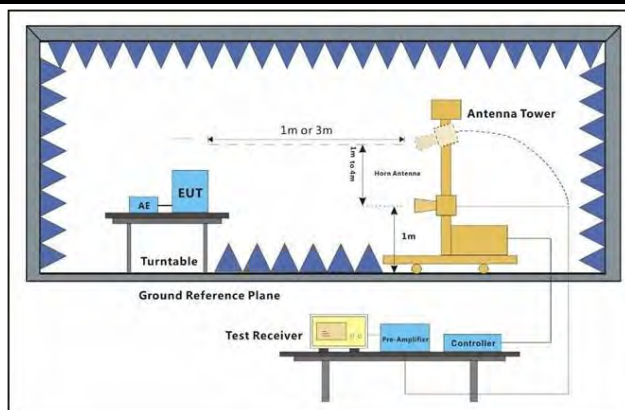


Figure 3. Above 1 GHz

Test Procedure:	- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. - For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation - The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. - The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. - For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. - The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. - If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT 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. - Test the EUT in the lowest channel, the middle channel ,the Highest channel. - 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. - Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz - RBW = 120 kHz - VBW = 300 kHz - Detector = Peak - Trace mode = max hold Peak Measurements Above 1000 MHz - RBW = 1 MHz - VBW ≥ 3 MHz

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	• Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW $\geq [3 * RBW]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (RBW / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

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

Test Setup:

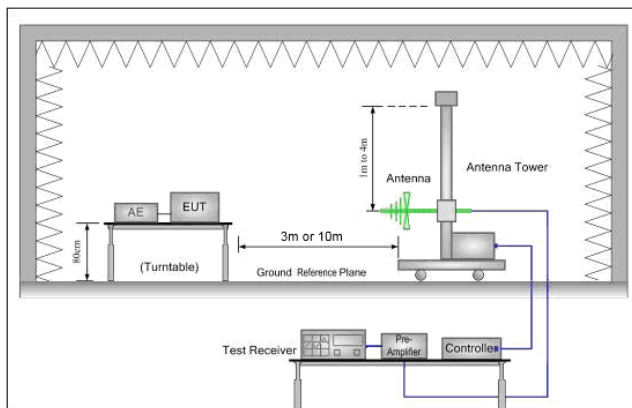


Figure 1. 30MHz to 1GHz

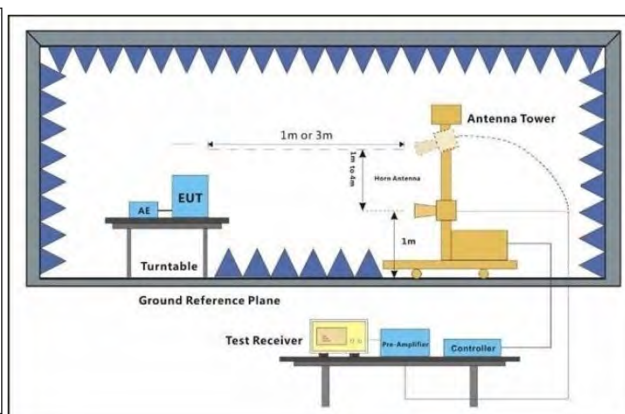


Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Place a marker at the end of the restricted band closest to the transmit



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	frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq [3 * RBW]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (RBW / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
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 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 7.25 \times 10^{-8}$
5	Duty Cycle	$\pm 0.37\%$
6	Occupied Bandwidth	$\pm 7.25 \times 10^{-8}$
7	Conduction Emission	$\pm 2.9\text{dB}$ (150kHz to 30MHz)
8	Radiated Emission(966-01)	$\pm 3.13\text{dB}$ (9k -30MHz)
		$\pm 4.8\text{dB}$ (30M -1GHz)
		$\pm 4.8\text{dB}$ (1GHz to 18GHz)
		$\pm 4.8\text{dB}$ (Above 18GHz)



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6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 3.1.51	SUWI-02-09-09	NCR	NCR
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2021/2/20	2022/2/19

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS32-CE V3.0.0.1	SUWI-02-09-05	NCR	NCR
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19



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RSE Test Equipment 996-01

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	SCHWABE MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWABE MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWABE MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	SCHWABE MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant16	2402	0.67	2401.65	2402.32	0.5	PASS
		2440	0.68	2439.65	2440.32	0.5	PASS
		2480	0.68	2479.64	2480.32	0.5	PASS
BLE_2M	Ant16	2402	1.15	2401.42	2402.57	0.5	PASS
		2440	1.16	2439.42	2440.57	0.5	PASS
		2480	1.16	2479.41	2480.57	0.5	PASS

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant18	2402	0.68	2401.65	2402.33	0.5	PASS
		2440	0.68	2439.65	2440.33	0.5	PASS
		2480	0.68	2479.65	2480.32	0.5	PASS
BLE_2M	Ant18	2402	1.16	2401.42	2402.58	0.5	PASS
		2440	1.16	2439.42	2440.58	0.5	PASS
		2480	1.16	2479.41	2480.57	0.5	PASS



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Test Graphs

BLE_1M_Ant16_2402



11:30:08 19.12.2021

BLE_1M_Ant16_2440



11:37:04 19.12.2021



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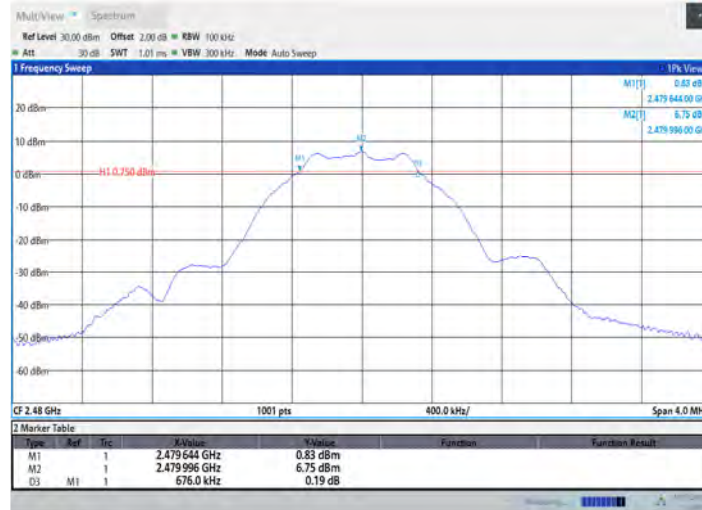
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11:34:47 19.12.2021

BLE 2M Ant16 2402



11:38:09 19.12.2021



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BLE 2M Ant16 2440



11:40:20 19.12.2021

BLE 2M Ant16 2480



11:42:41 19.12.2021



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BLE 1M Ant18 2402



18:18:55 18.12.2021

BLE 1M Ant18 2440



18:21:17 18.12.2021



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18:25:56 18.12.2021



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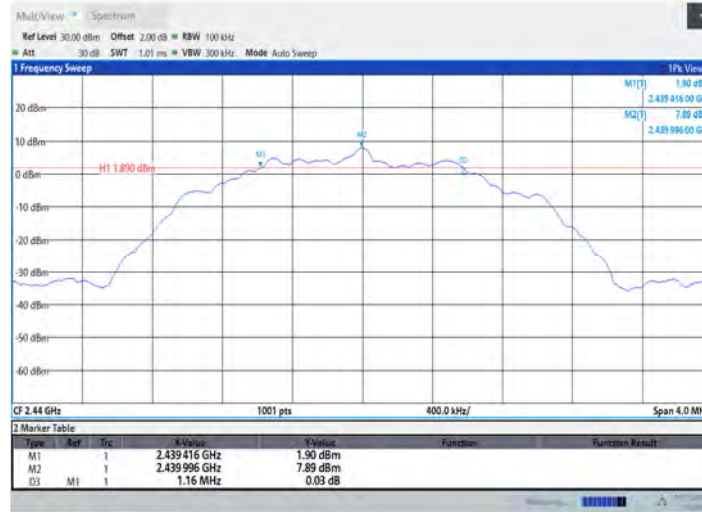
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18:28:46 18.12.2021

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18:31:44 18.12.2021



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant16	2402	1.012	2401.488	2402.500	---	PASS
		2440	1.013	2439.487	2440.500	---	PASS
		2480	1.016	2479.483	2480.499	---	PASS
BLE_2M	Ant16	2402	2.011	2401.002	2403.013	---	PASS
		2440	2.01	2439.000	2441.010	---	PASS
		2480	2.007	2478.995	2481.002	---	PASS

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant18	2402	1.014	2401.491	2402.505	---	PASS
		2440	1.014	2439.491	2440.505	---	PASS
		2480	1.013	2479.488	2480.501	---	PASS
BLE_2M	Ant18	2402	2.011	2401.004	2403.016	---	PASS
		2440	2.011	2439.003	2441.014	---	PASS
		2480	2.007	2478.999	2481.005	---	PASS



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Test Graphs

BLE_1M_Ant16_2402



BLE_1M_Ant16_2440



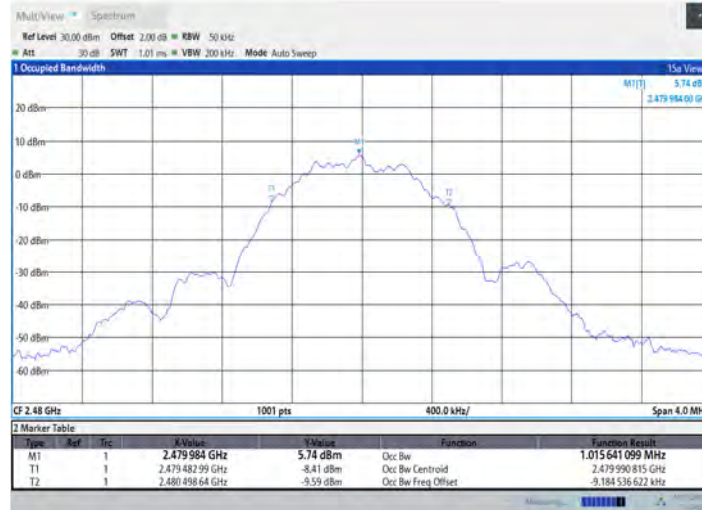
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11:34:59 19.12.2021

BLE 2M Ant16 2402



11:38:21 19.12.2021



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11:40:32 19.12.2021

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11:42:52 19.12.2021



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18:19:06 18.12.2021

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19:07:15 21.01.2022



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Maximum conducted output power Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant16	2402	6.14	≤30	PASS
		2440	6.39	≤30	PASS
		2480	5.17	≤30	PASS
BLE_2M	Ant16	2402	8.34	≤30	PASS
		2440	8.55	≤30	PASS
		2480	7.39	≤30	PASS

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant18	2402	6.05	≤30	PASS
		2440	6.20	≤30	PASS
		2480	5.11	≤30	PASS
BLE_2M	Ant18	2402	8.22	≤30	PASS
		2440	8.40	≤30	PASS
		2480	7.35	≤30	PASS



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Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant16	2402	-6.7	≤8	PASS
		2440	-6.55	≤8	PASS
		2480	-7.82	≤8	PASS
BLE_2M	Ant16	2402	-9.63	≤8	PASS
		2440	-9.5	≤8	PASS
		2480	-10.69	≤8	PASS

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant18	2402	-6.8	≤8	PASS
		2440	-6.6	≤8	PASS
		2480	-7.86	≤8	PASS
BLE_2M	Ant18	2402	-9.79	≤8	PASS
		2440	-9.59	≤8	PASS
		2480	-10.67	≤8	PASS



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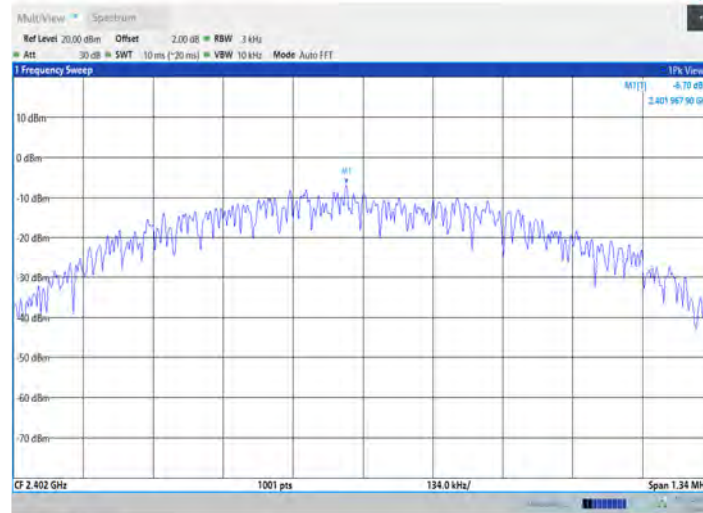
Report No.: SUAR/2021/B000704

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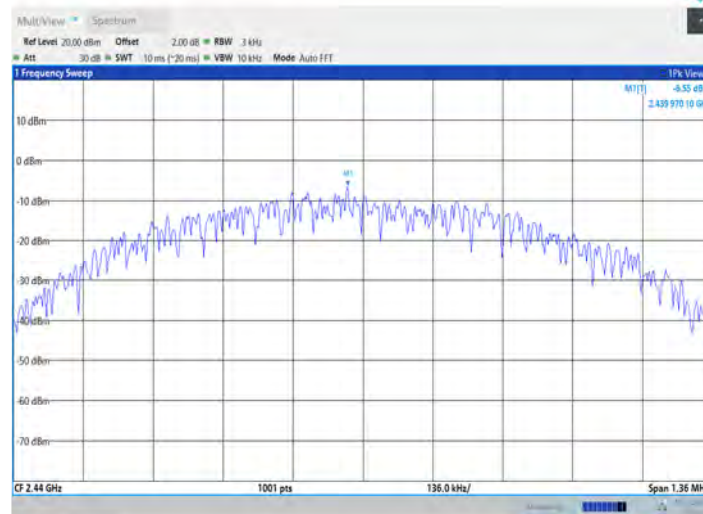
Test Graphs

BLE_1M_Ant16_2402



11:30:48 19.12.2021

BLE_1M_Ant16_2440



11:37:29 19.12.2021



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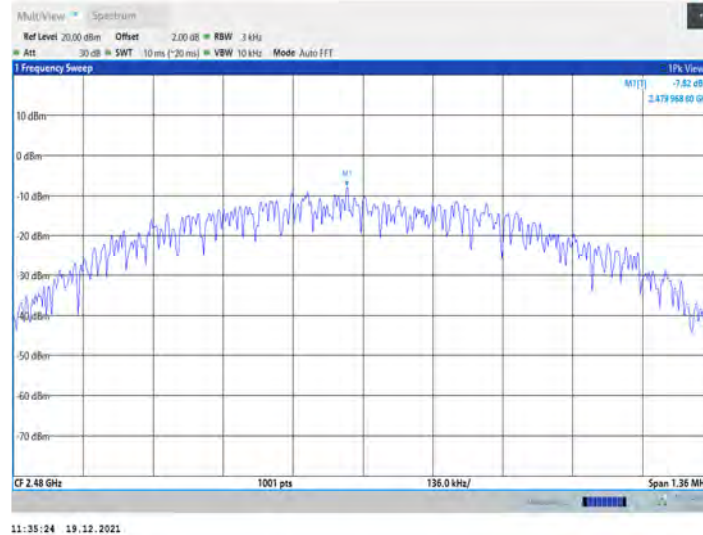
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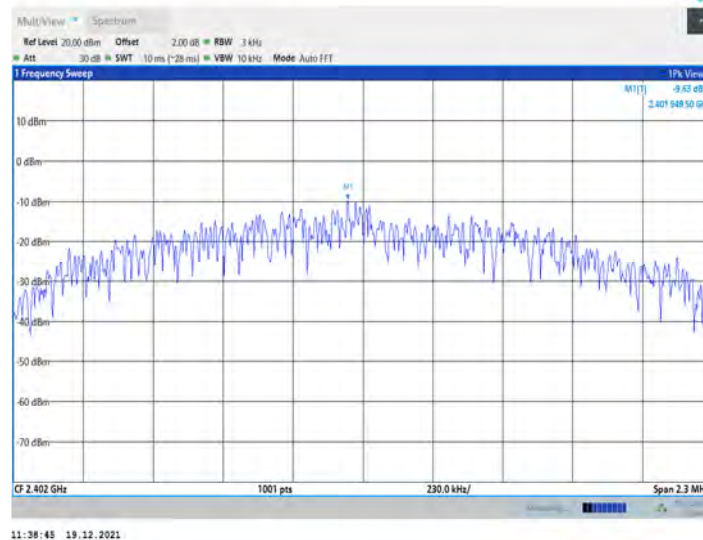
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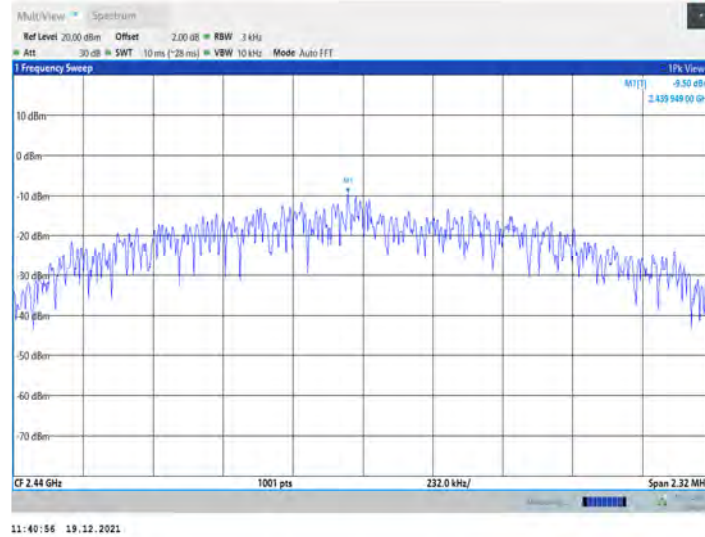
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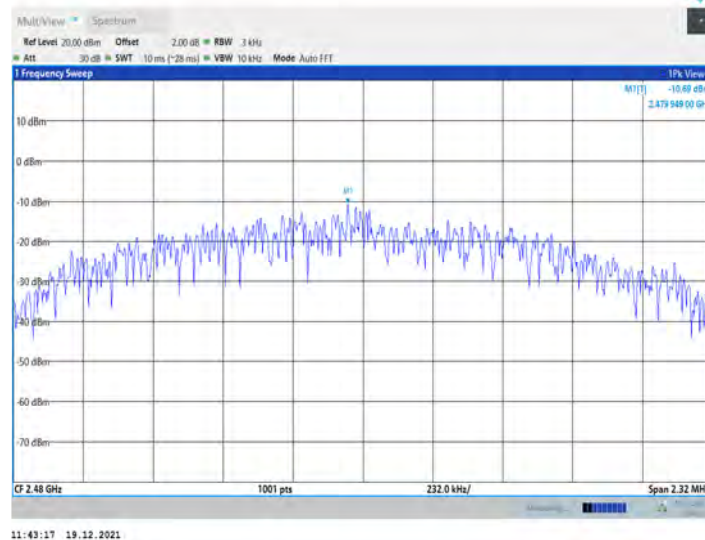
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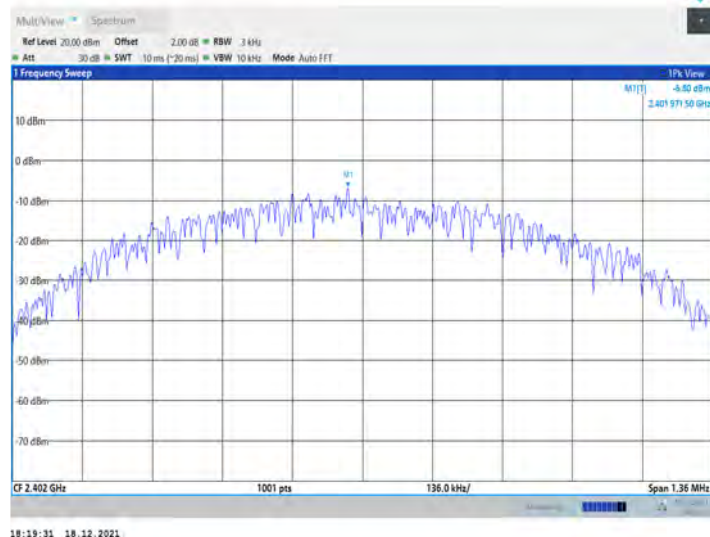
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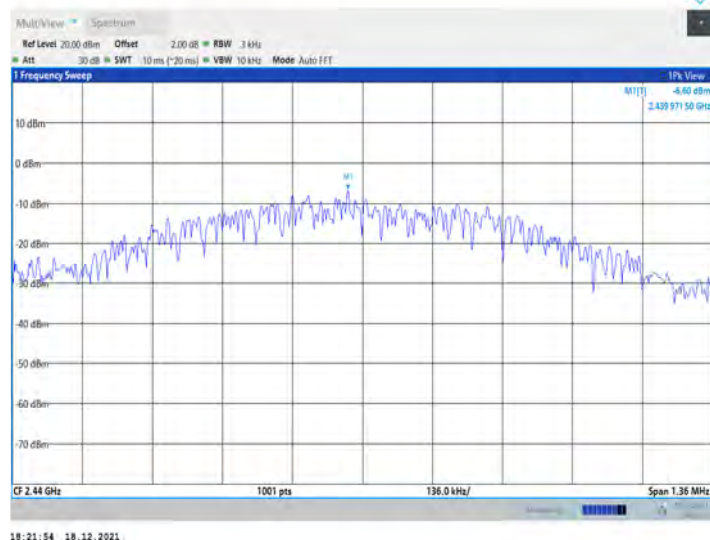
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BLE 1M Ant18 2402



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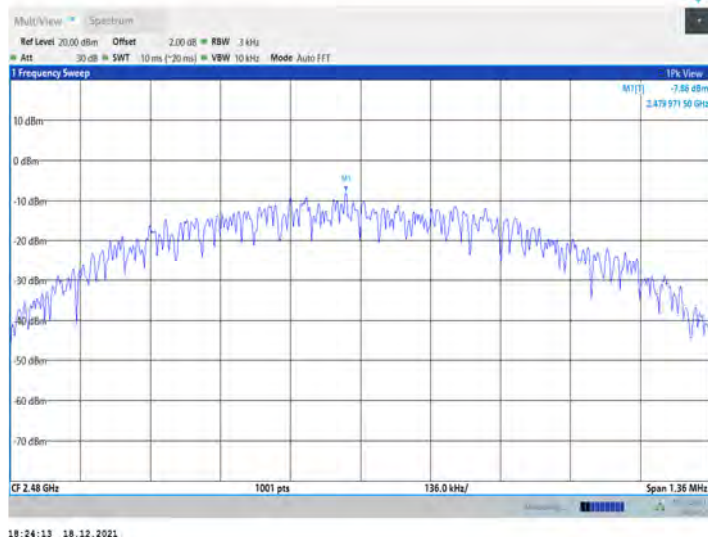
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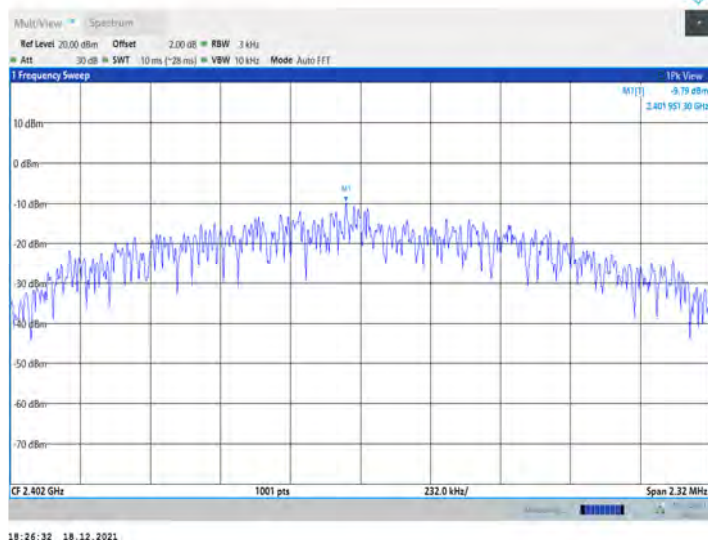
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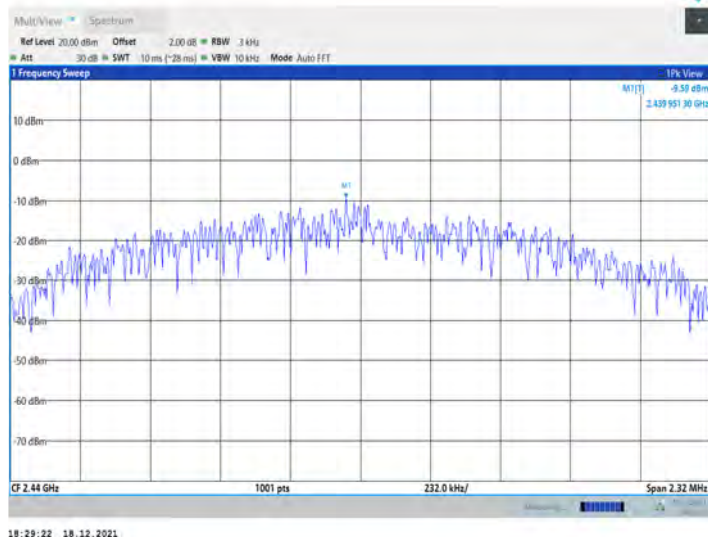
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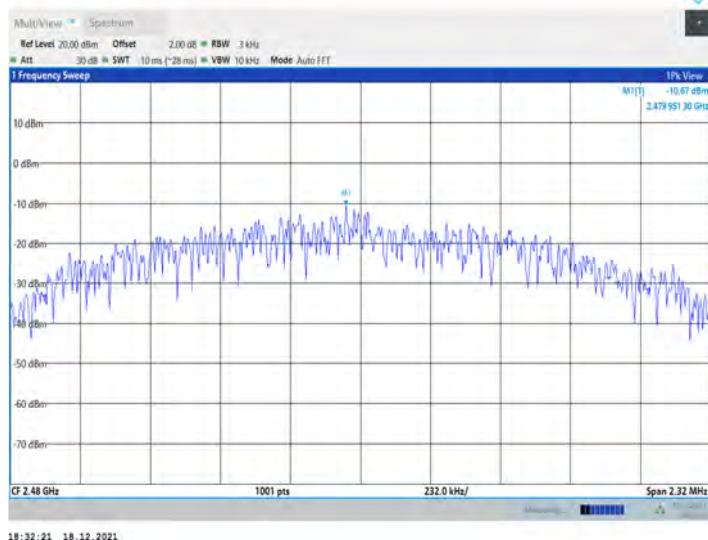
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Band edge measurements Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant16	Low	2402	7.86	-52.3	≤-12.14	PASS
		High	2480	6.83	-58.56	≤-13.17	PASS
BLE_2M	Ant16	Low	2402	7.83	-31.88	≤-12.17	PASS
		High	2480	6.86	-58.17	≤-13.14	PASS

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant18	Low	2402	7.73	-53.03	≤-12.27	PASS
		High	2480	6.84	-57.97	≤-13.16	PASS
BLE_2M	Ant18	Low	2402	7.67	-31.65	≤-12.33	PASS
		High	2480	6.85	-58.28	≤-13.15	PASS



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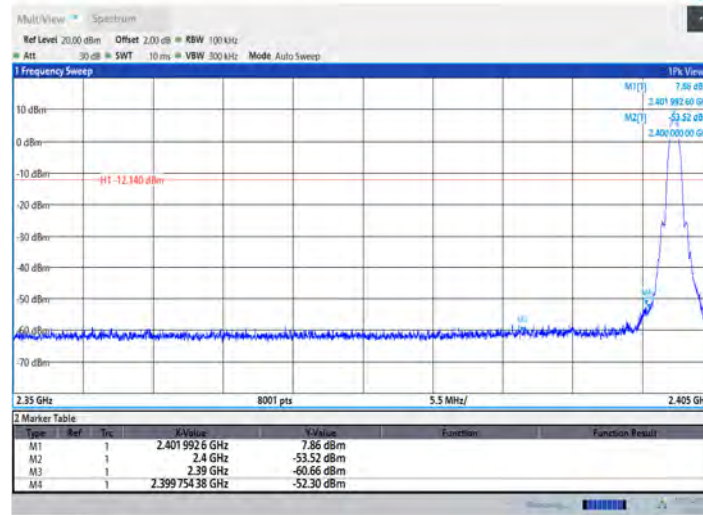
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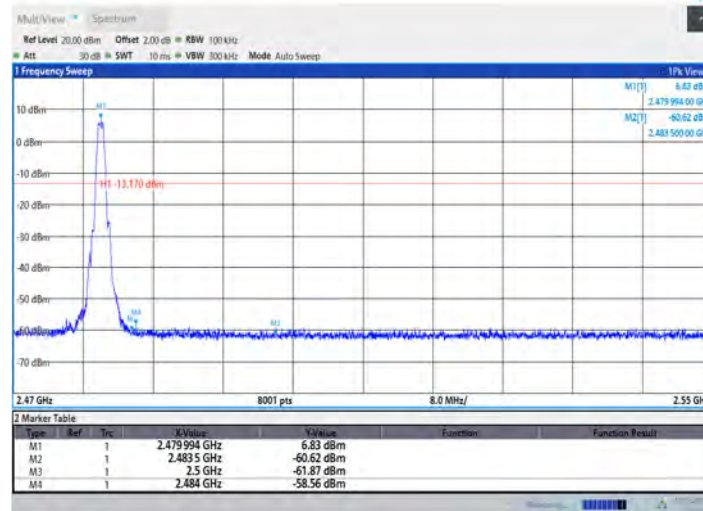
Test Graphs

BLE_1M_Ant16_Low_2402



11:30:59 19.12.2021

BLE_1M_Ant16_High_2480



11:35:37 19.12.2021



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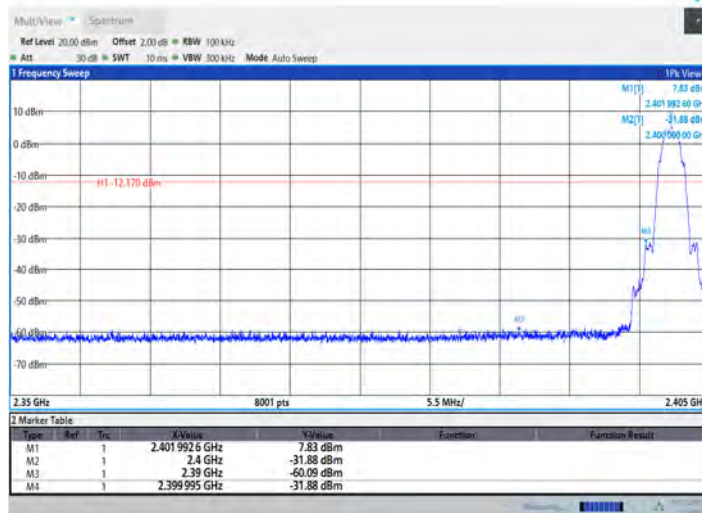
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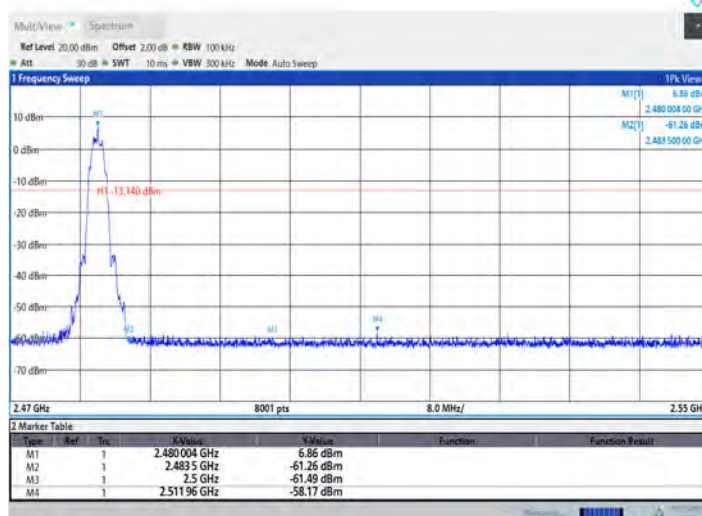
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11:38:59 19.12.2021

BLE 2M Ant16 High 2480



11:43:31 19.12.2021



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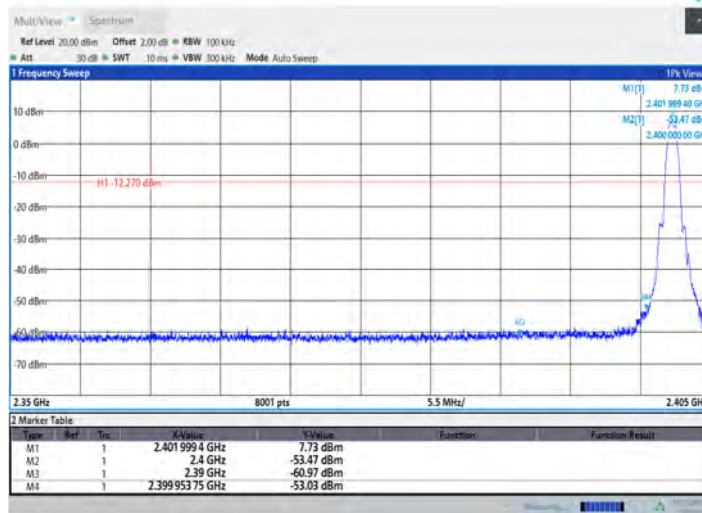
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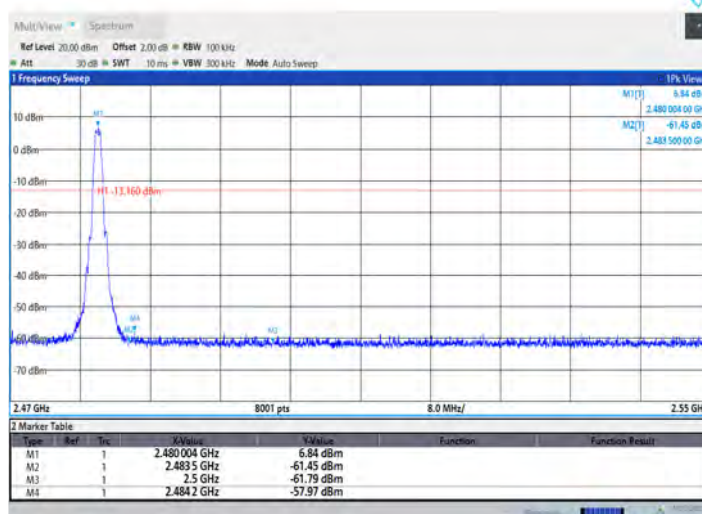
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18:19:45 18.12.2021

BLE 1M Ant18 High 2480



18:24:27 18.12.2021



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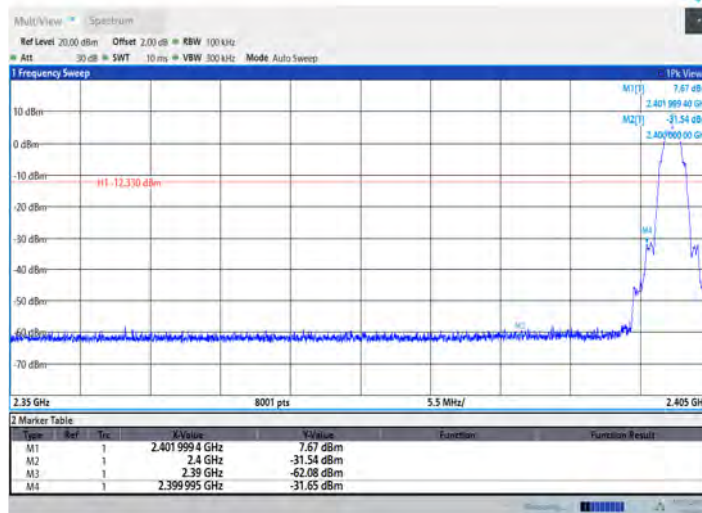
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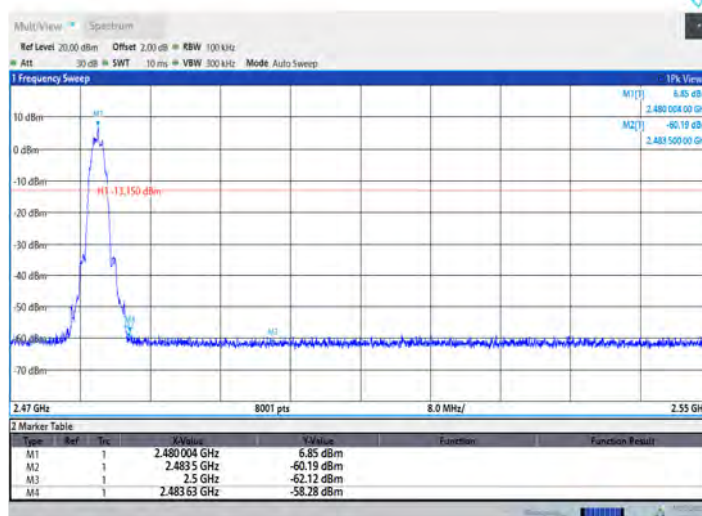
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18:26:46 18.12.2021

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Conducted Spurious Emission Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant16	2402	Reference	7.84	7.84	---	PASS
			30~1000	7.84	-61.96	≤-12.16	PASS
			1000~26500	7.84	-55.68	≤-12.16	PASS
		2440	Reference	8.00	8.00	---	PASS
			30~1000	8.00	-62.78	≤-12	PASS
			1000~26500	8.00	-59.43	≤-12	PASS
		2480	Reference	6.74	6.74	---	PASS
			30~1000	6.74	-62.77	≤-13.26	PASS
			1000~26500	6.74	-58.65	≤-13.26	PASS
BLE_2M	Ant16	2402	Reference	7.81	7.81	---	PASS
			30~1000	7.81	-62.64	≤-12.19	PASS
			1000~26500	7.81	-58.9	≤-12.19	PASS
		2440	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-62.33	≤-12.02	PASS
			1000~26500	7.98	-58.94	≤-12.02	PASS
		2480	Reference	6.80	6.80	---	PASS
			30~1000	6.80	-61.81	≤-13.2	PASS
			1000~26500	6.80	-53.55	≤-13.2	PASS

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant18	2402	Reference	7.70	7.70	---	PASS
			30~1000	7.70	-62.74	≤-12.3	PASS
			1000~26500	7.70	-58.32	≤-12.3	PASS
		2440	Reference	7.86	7.86	---	PASS
			30~1000	7.86	-62.66	≤-12.14	PASS
			1000~26500	7.86	-59.07	≤-12.14	PASS
		2480	Reference	6.75	6.75	---	PASS
			30~1000	6.75	-62.58	≤-13.25	PASS
			1000~26500	6.75	-58.75	≤-13.25	PASS
BLE_2M	Ant18	2402	Reference	7.70	7.70	---	PASS
			30~1000	7.70	-62.34	≤-12.3	PASS
			1000~26500	7.70	-59.02	≤-12.3	PASS
		2440	Reference	7.16	7.16	---	PASS
			30~1000	7.16	-61.44	≤-12.84	PASS
			1000~26500	7.16	-59.15	≤-12.84	PASS
		2480	Reference	6.78	6.78	---	PASS
			30~1000	6.78	-62.58	≤-13.22	PASS
			1000~26500	6.78	-59.27	≤-13.22	PASS



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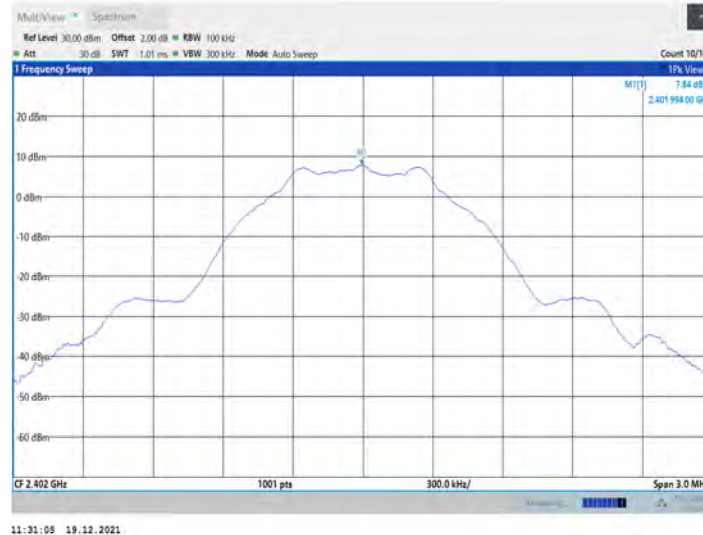
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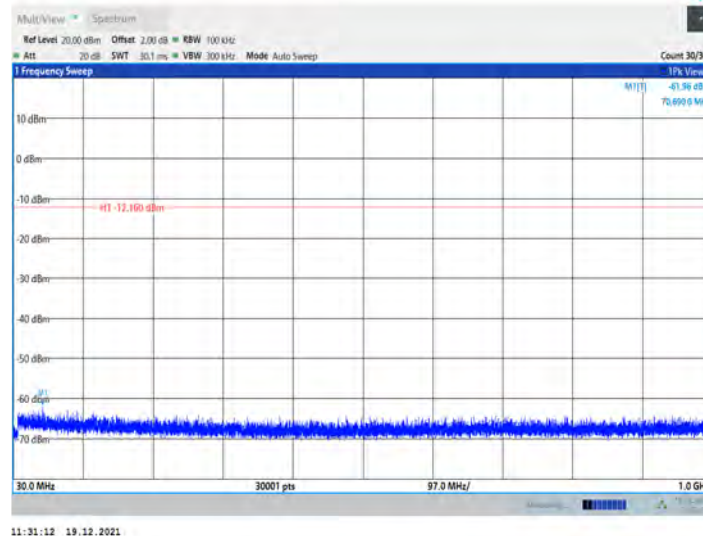
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Test Graphs

BLE_1M_Ant16_2402_0-Reference



BLE_1M_Ant16_2402_30-1000



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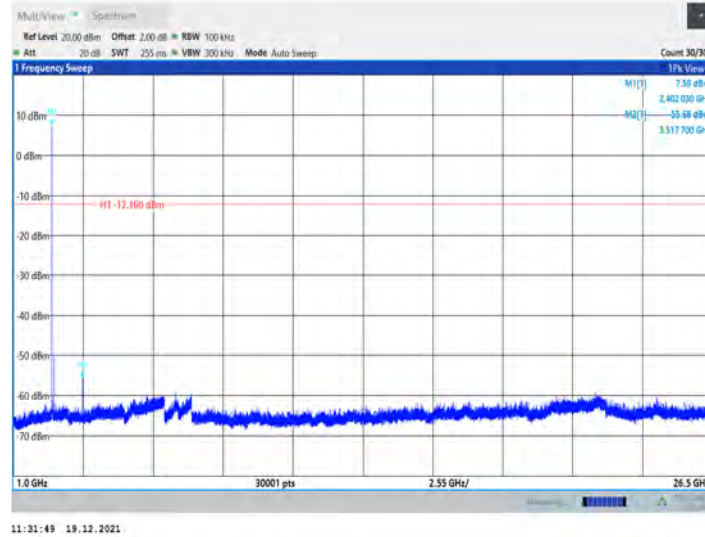
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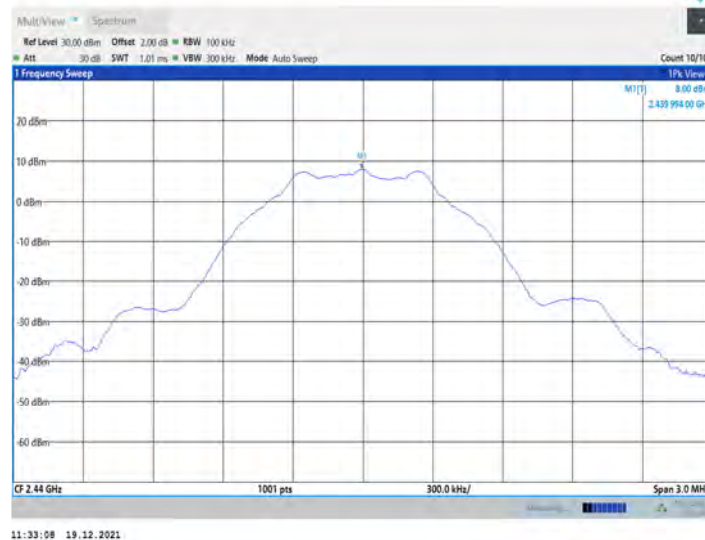
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BLE 1M Ant16 2402 1000~26500



BLE 1M Ant16 2440 0~Reference



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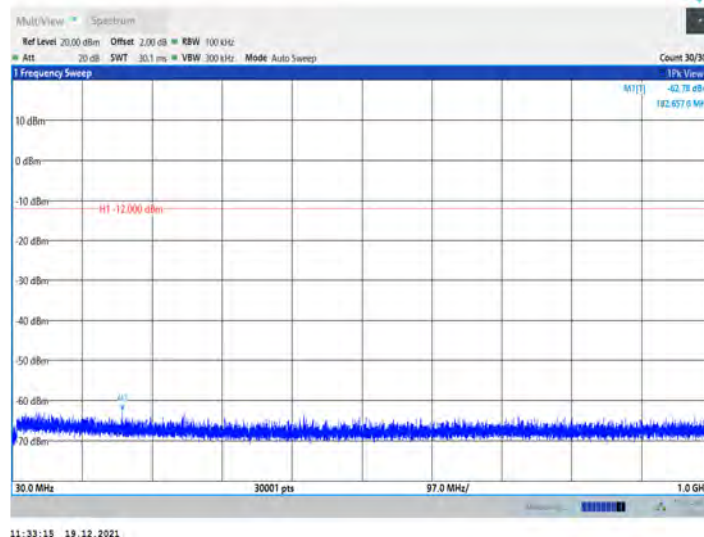
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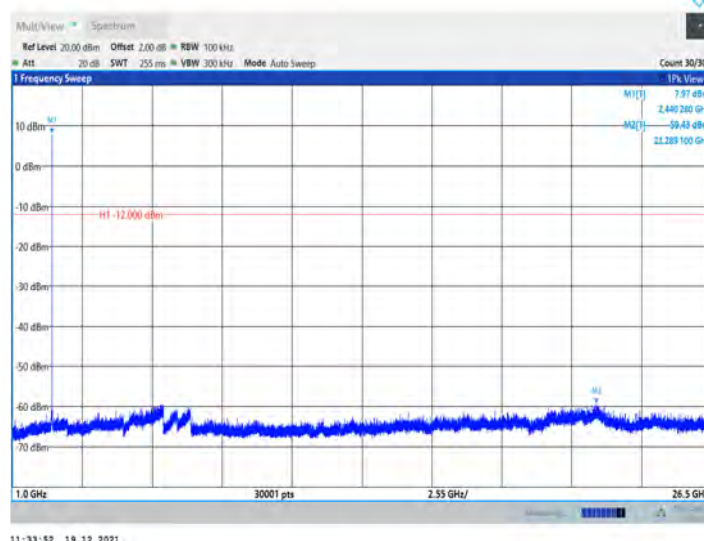
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11:33:19 19.12.2021

BLE 1M Ant16 2440 1000~26500



11:33:52 19.12.2021



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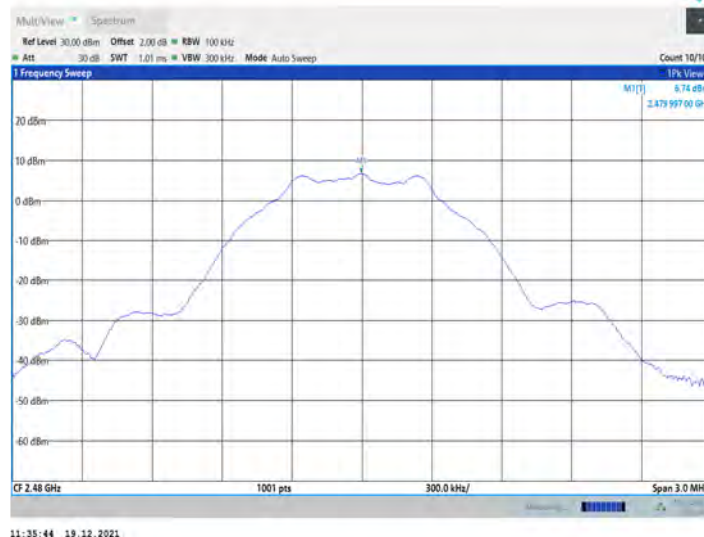
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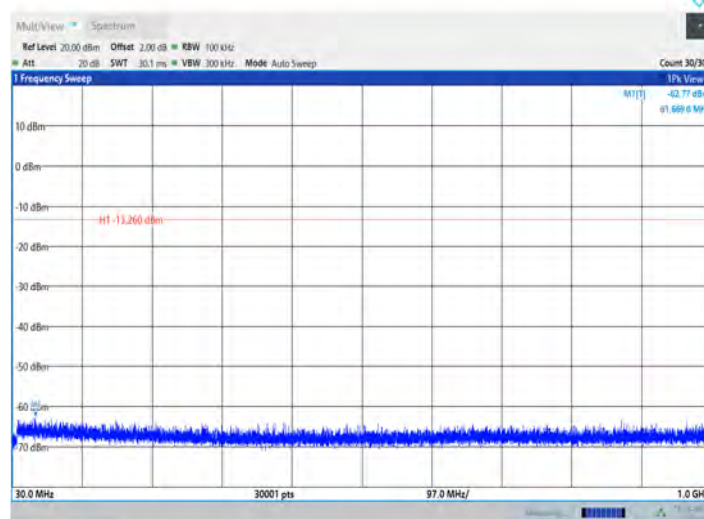
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11:35:44 19.12.2021

BLE 1M Ant16 2480 30~1000



11:35:51 19.12.2021



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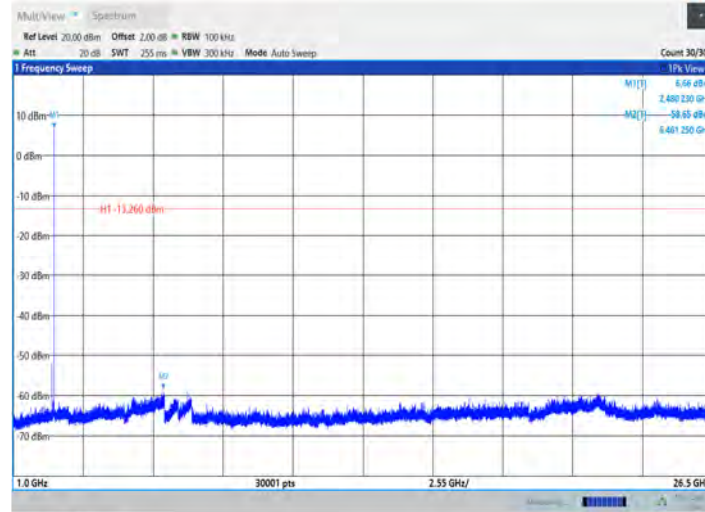
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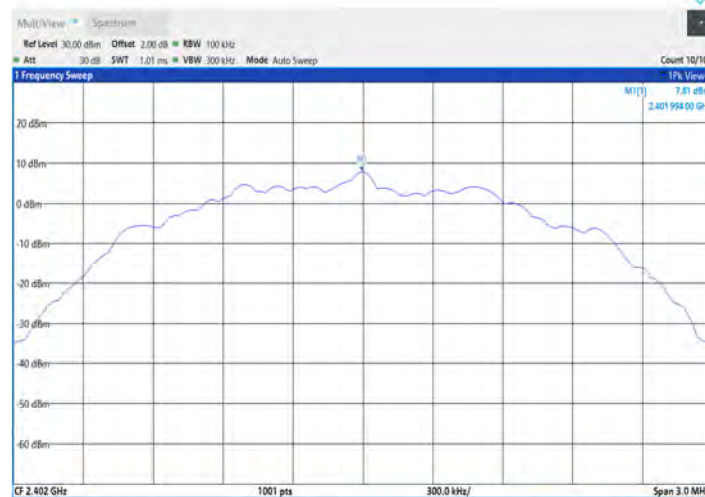
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11:36:28 19.12.2021

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11:39:06 19.12.2021



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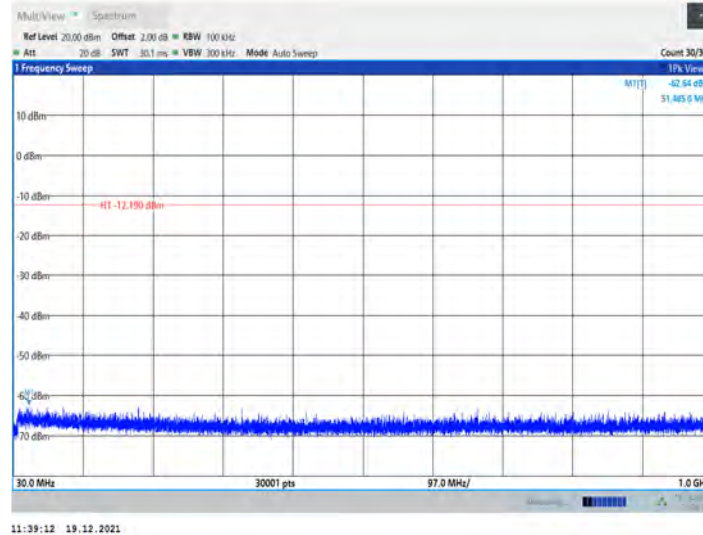
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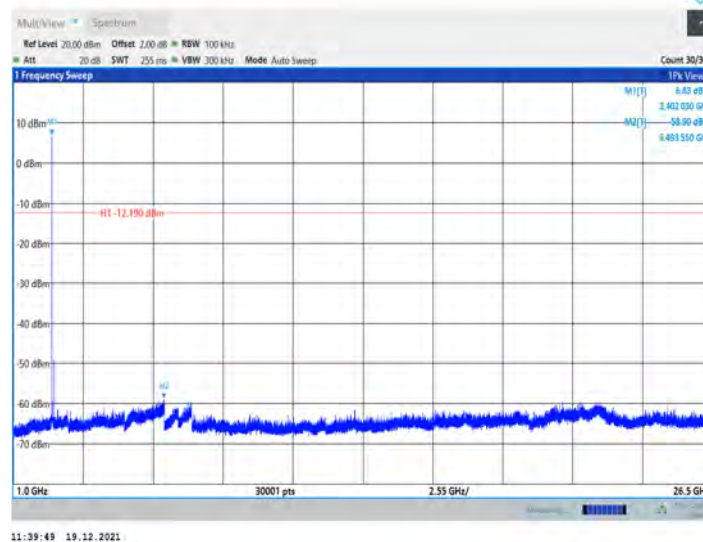
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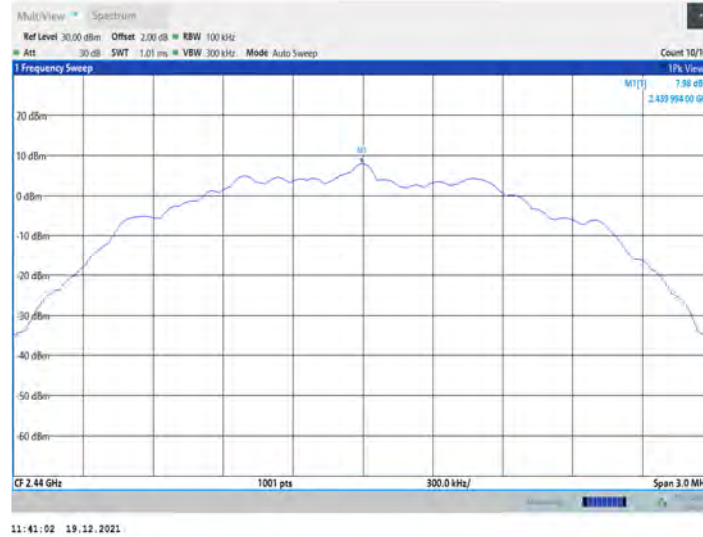
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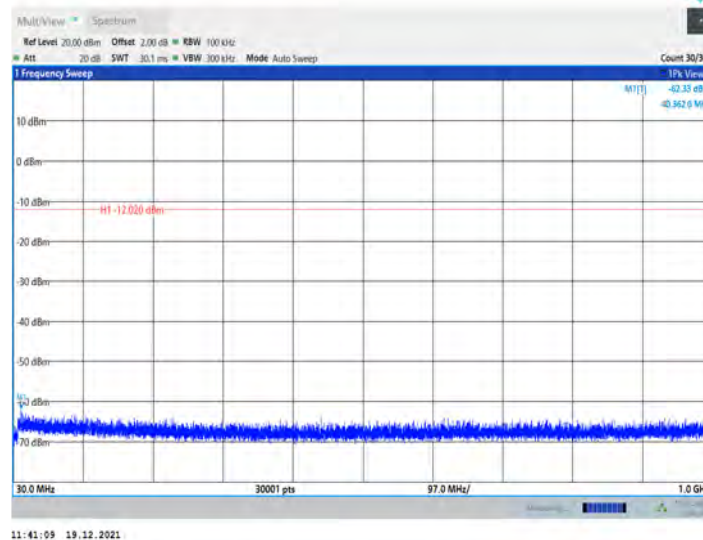
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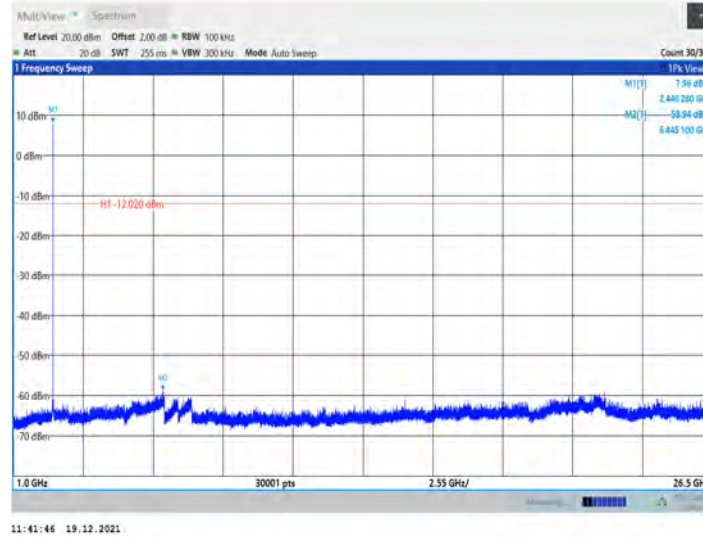
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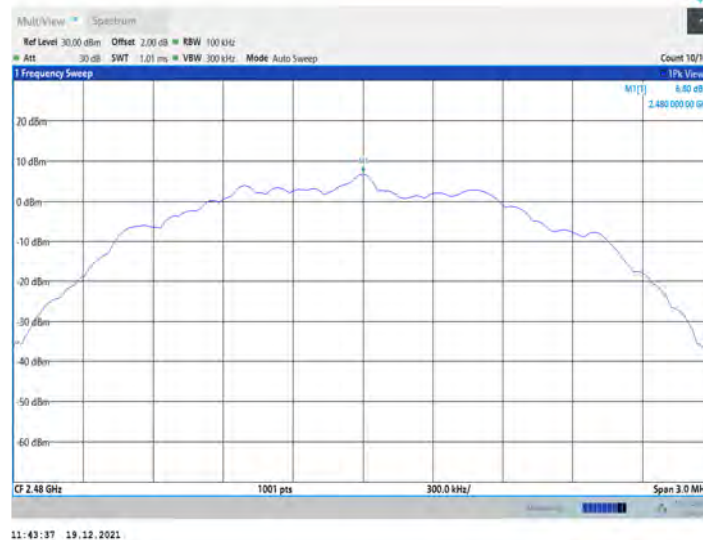
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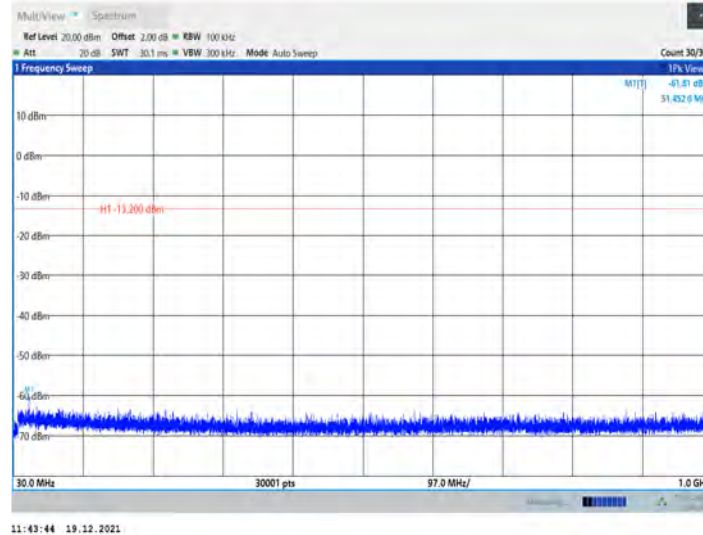
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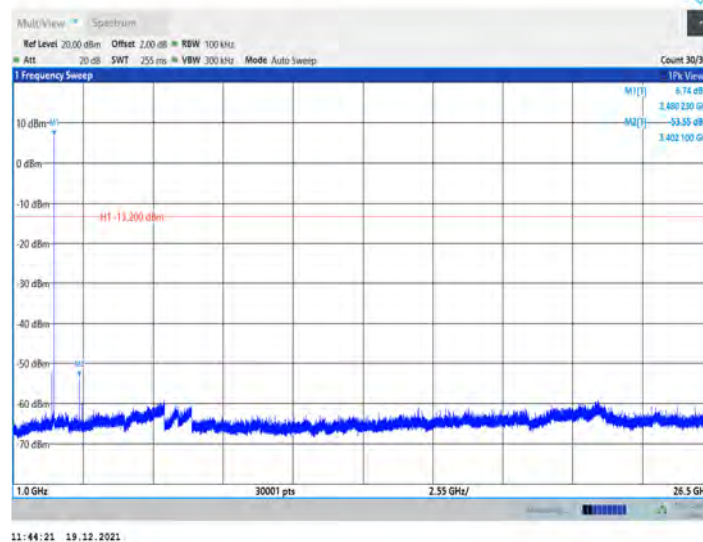
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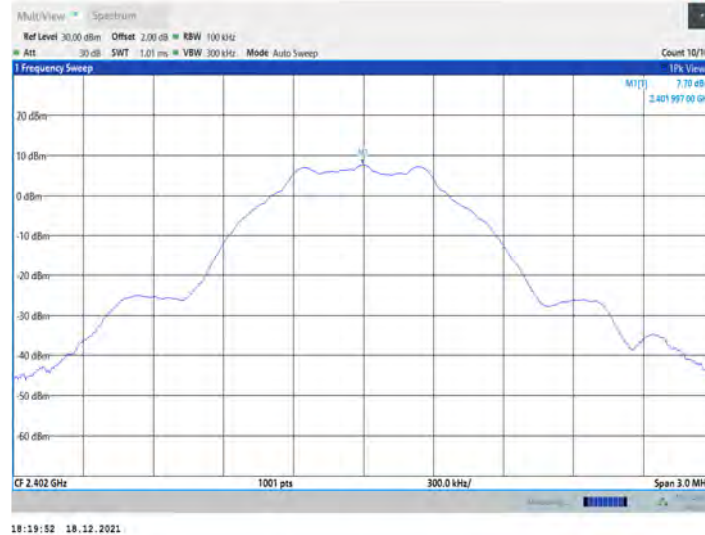
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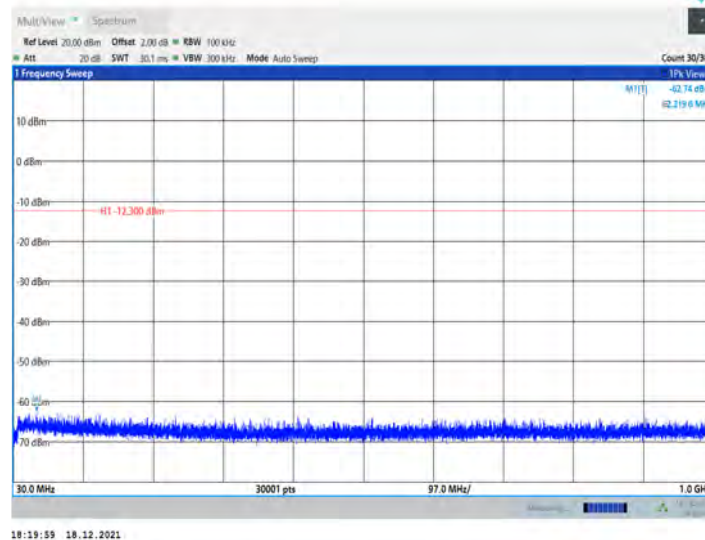
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BLE 1M Ant18 2402 30-1000



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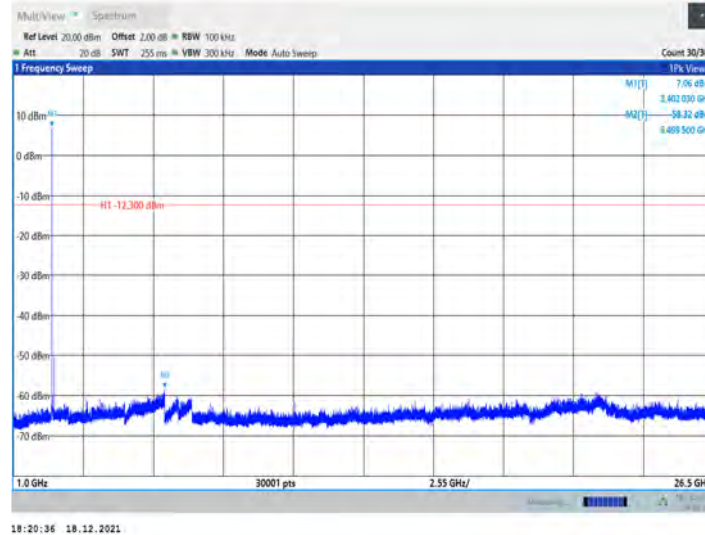
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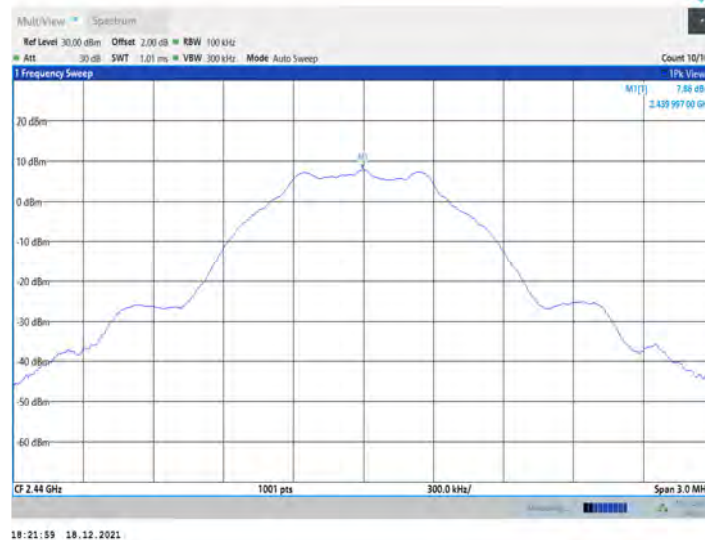
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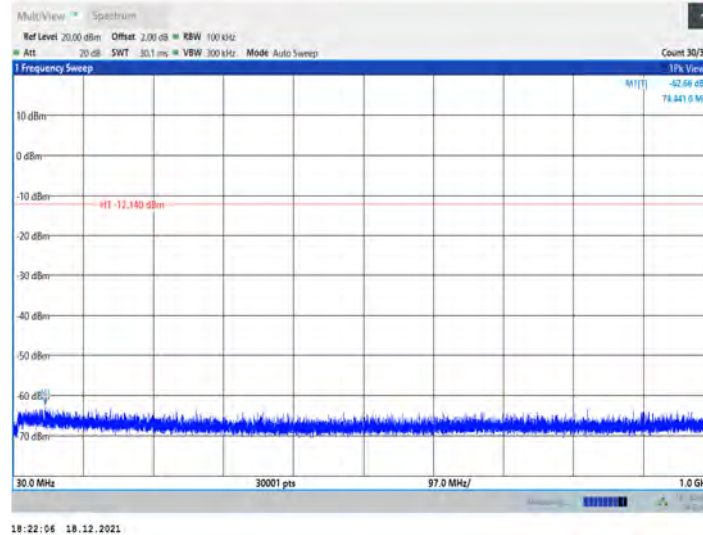
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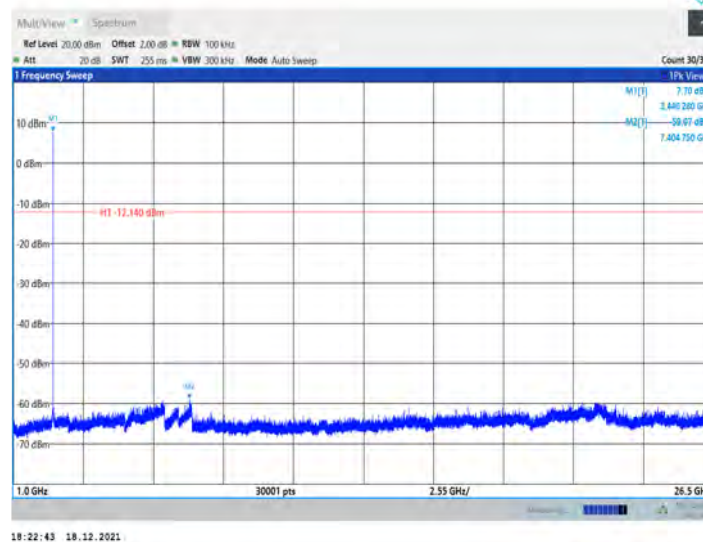
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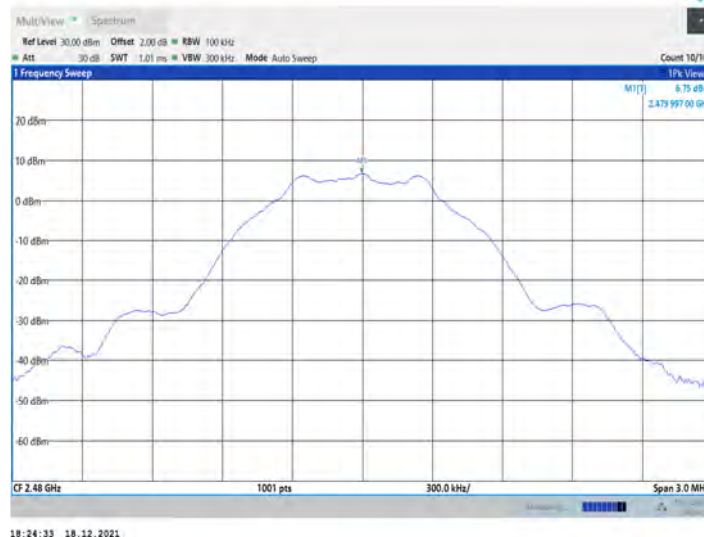
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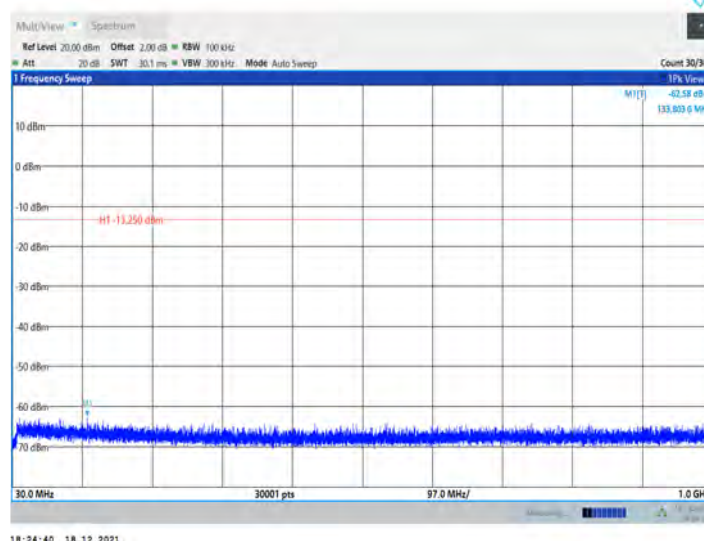
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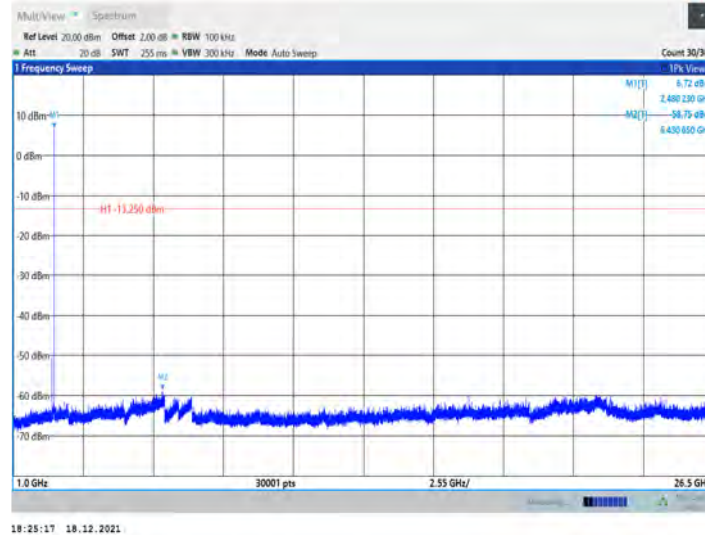
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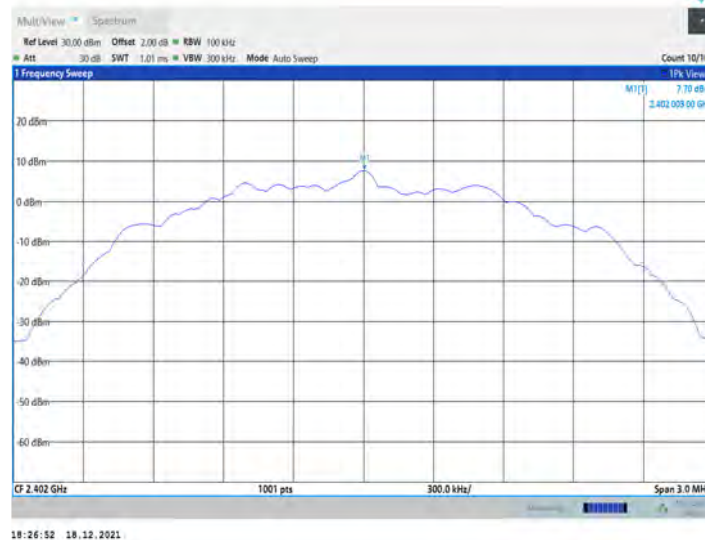
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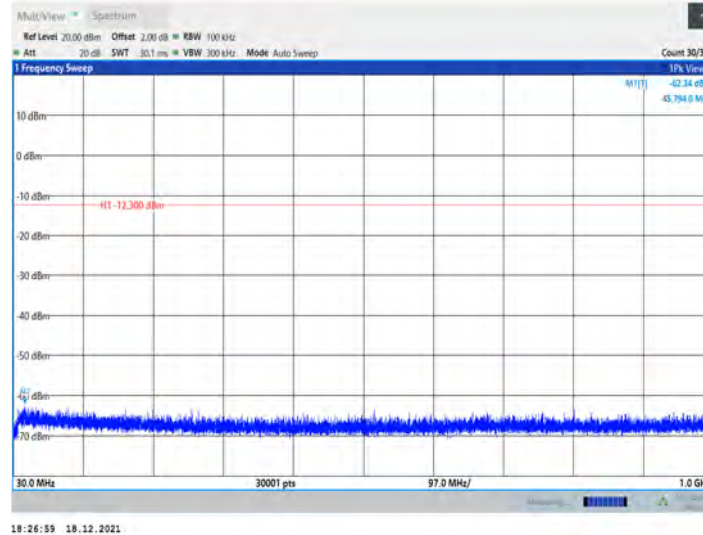
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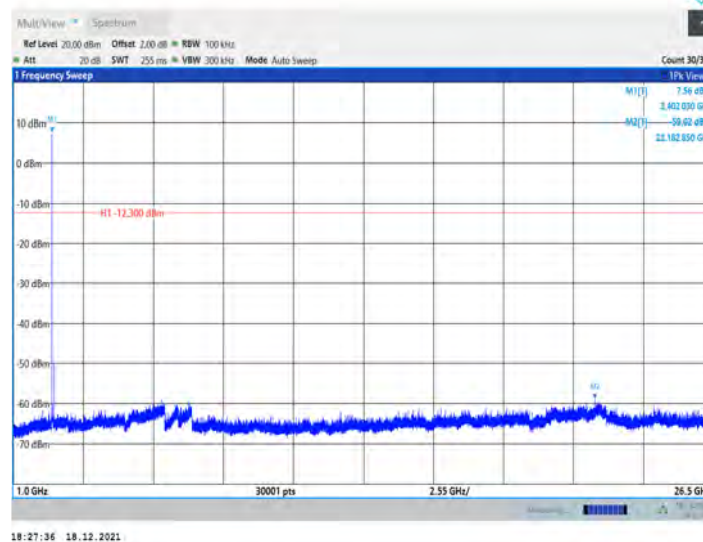
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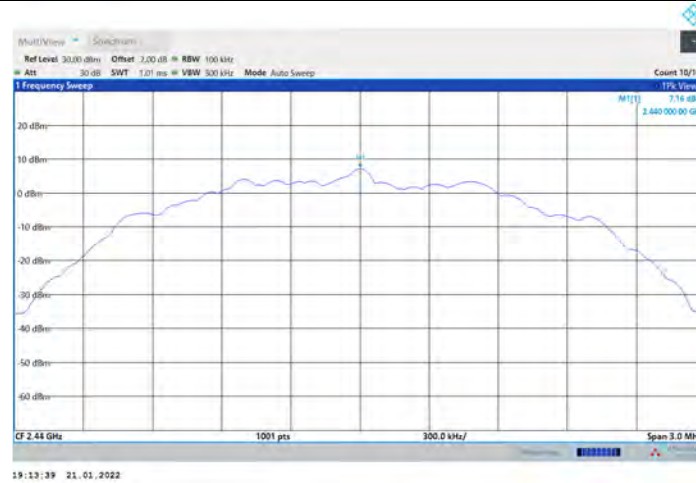
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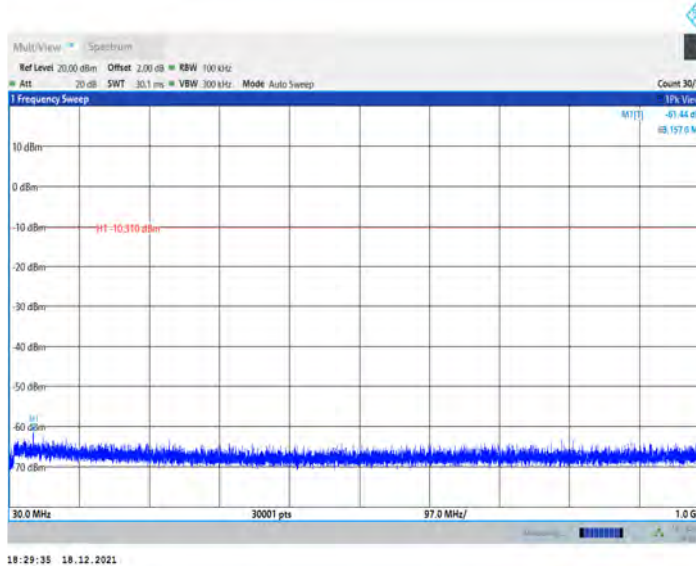
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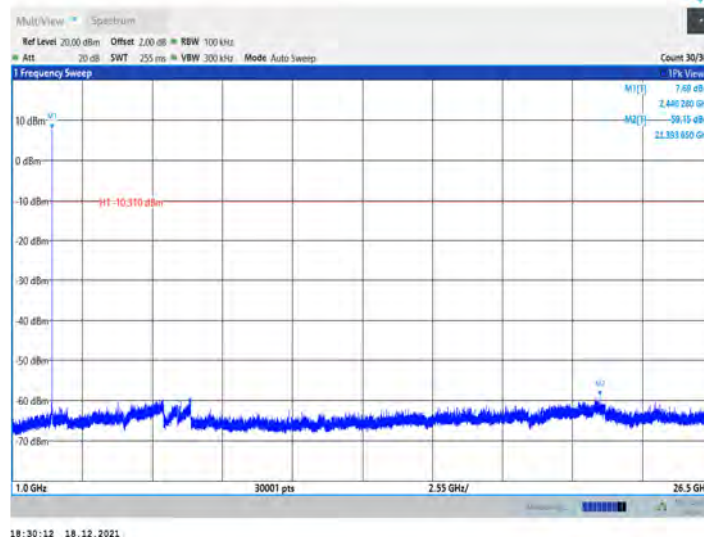
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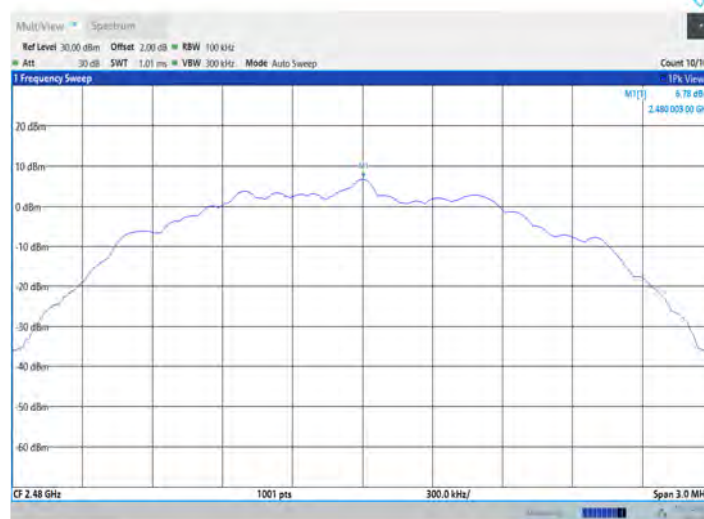
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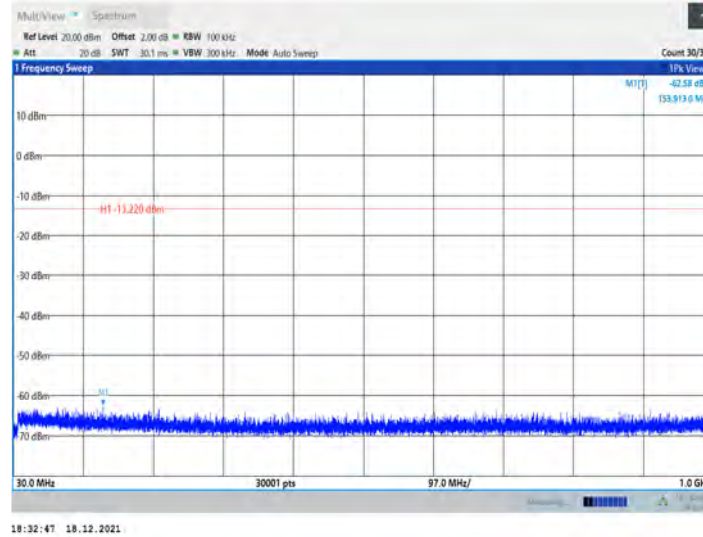
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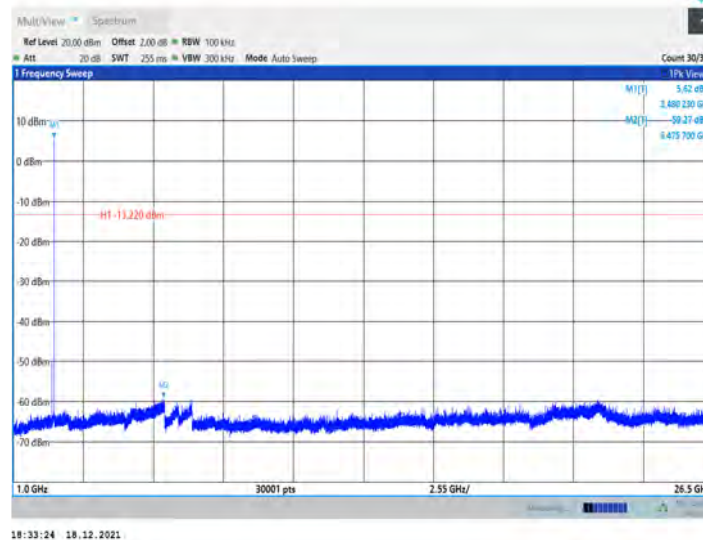
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Duty Cycle Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	DC [%]	Duty cycle Factor	Limit	Verdict
BLE_1M	Ant16	2402	0.40	0.63	63.49	1.97	---	PASS
		2440	0.40	0.63	63.49	1.97	---	PASS
		2480	0.39	0.63	61.90	2.08	---	PASS
BLE_2M	Ant16	2402	0.21	0.62	33.87	4.70	---	PASS
		2440	0.21	0.62	33.87	4.70	---	PASS
		2480	0.21	0.62	33.87	4.70	---	PASS

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	DC [%]	Duty cycle Factor	Limit	Verdict
BLE_1M	Ant18	2402	0.40	0.63	63.49	1.97	---	PASS
		2440	0.39	0.62	62.90	2.01	---	PASS
		2480	0.40	0.63	63.49	1.97	---	PASS
BLE_2M	Ant18	2402	0.21	0.63	33.33	4.77	---	PASS
		2440	0.21	0.63	33.33	4.77	---	PASS
		2480	0.21	0.62	33.87	4.70	---	PASS



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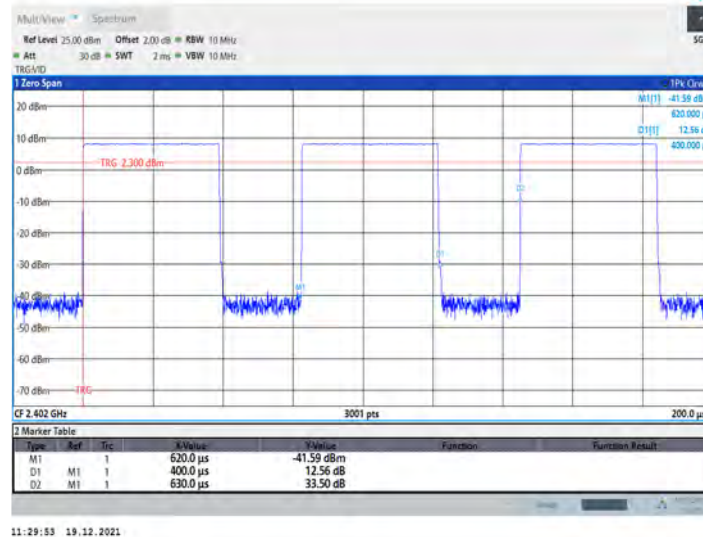
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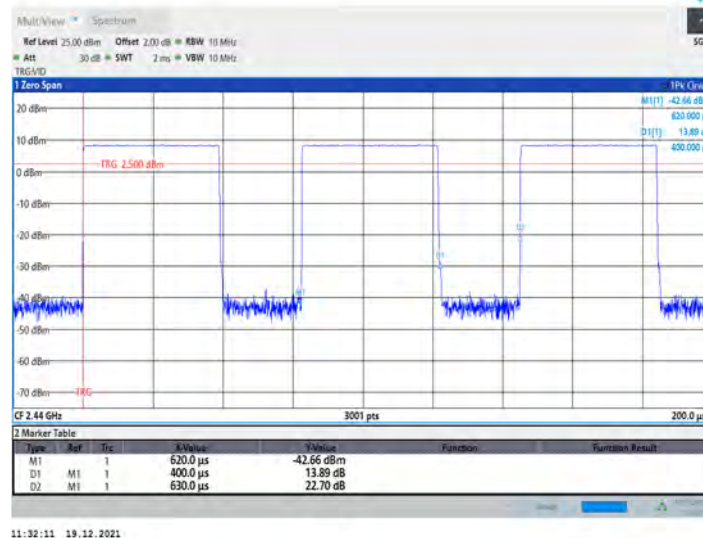
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Test Graphs

BLE_1M_Ant16_2402



BLE_1M_Ant16_2440



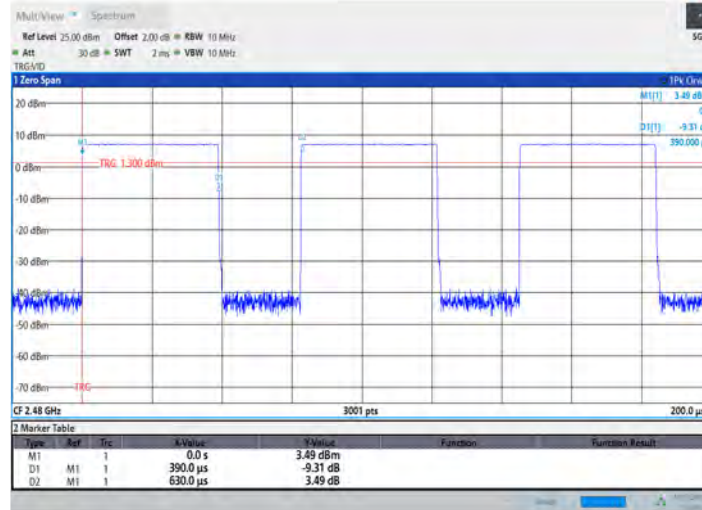
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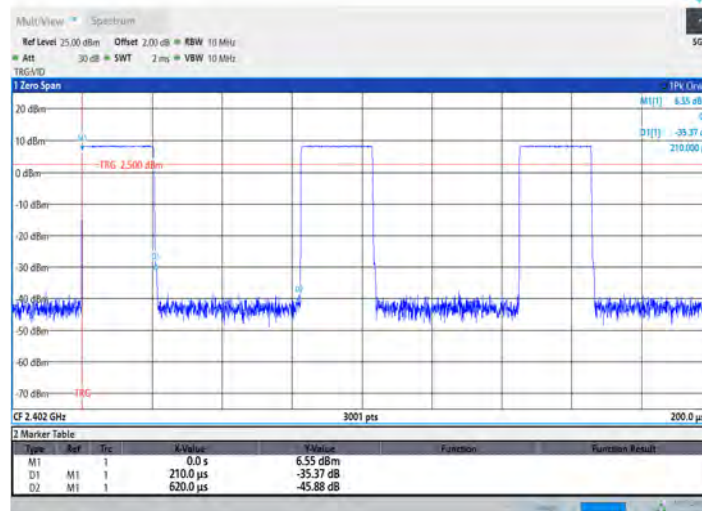
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11:34:33 19.12.2021

BLE 2M Ant16 2402



11:37:54 19.12.2021



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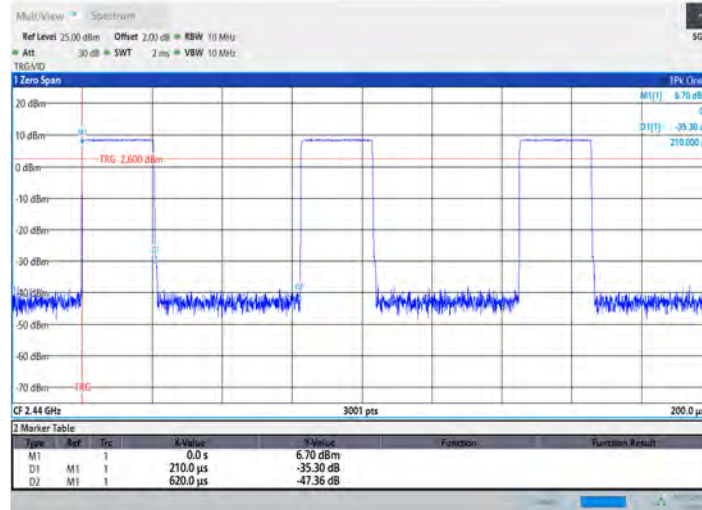
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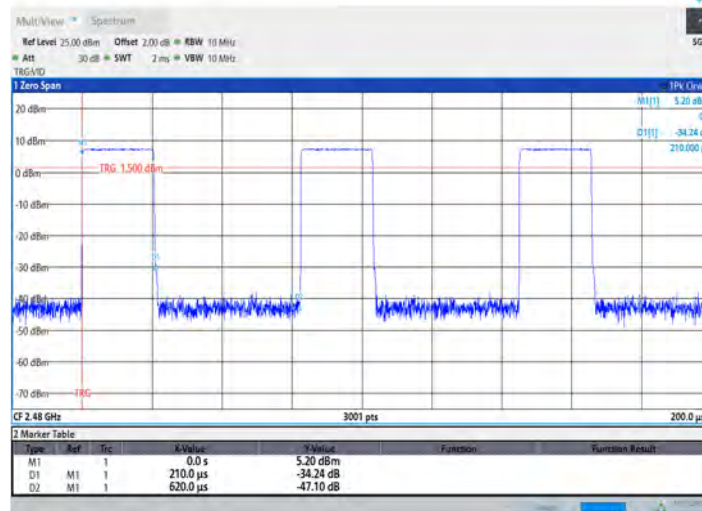
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11:40:05 19.12.2021

BLE 2M Ant16 2480



11:42:26 19.12.2021



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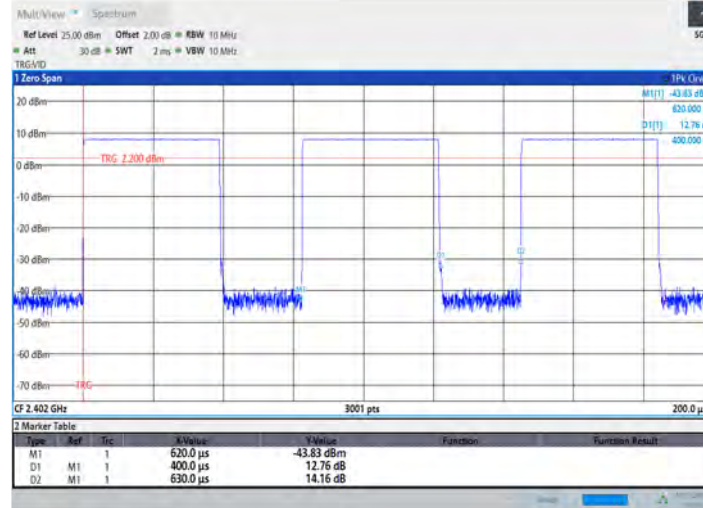
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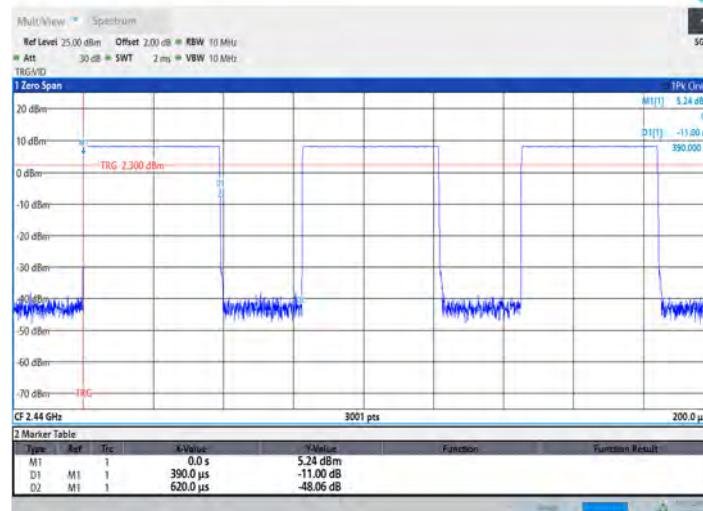
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18:18:39 18.12.2021

BLE 1M Ant18 2440



18:21:02 18.12.2021



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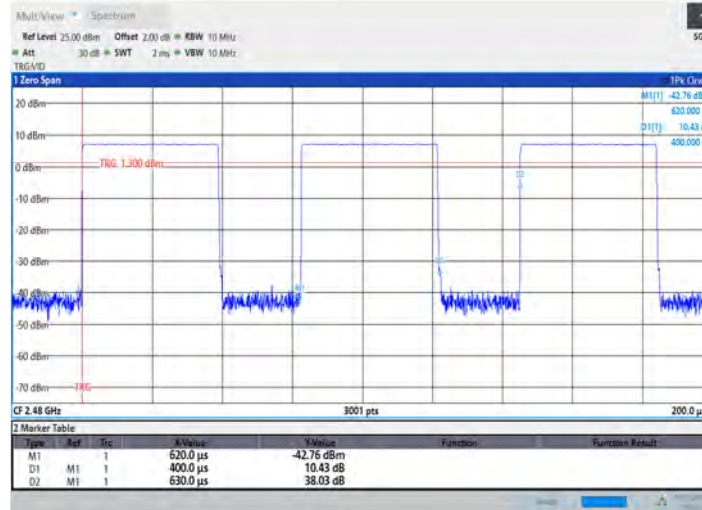
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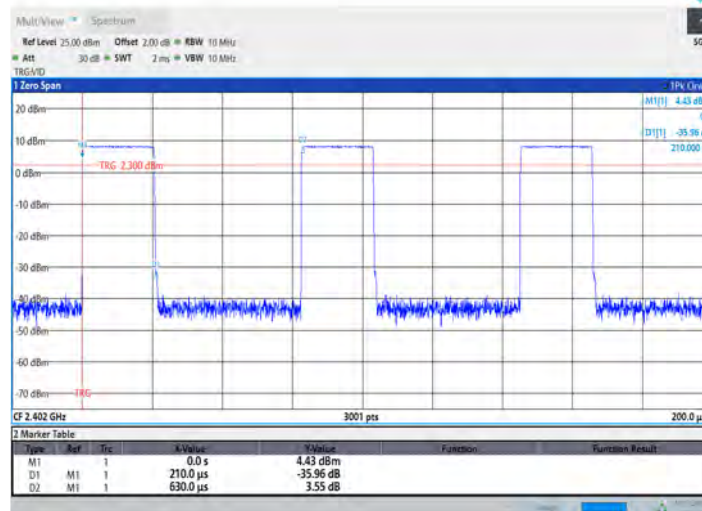
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18:23:22 18.12.2021

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18:25:41 18.12.2021



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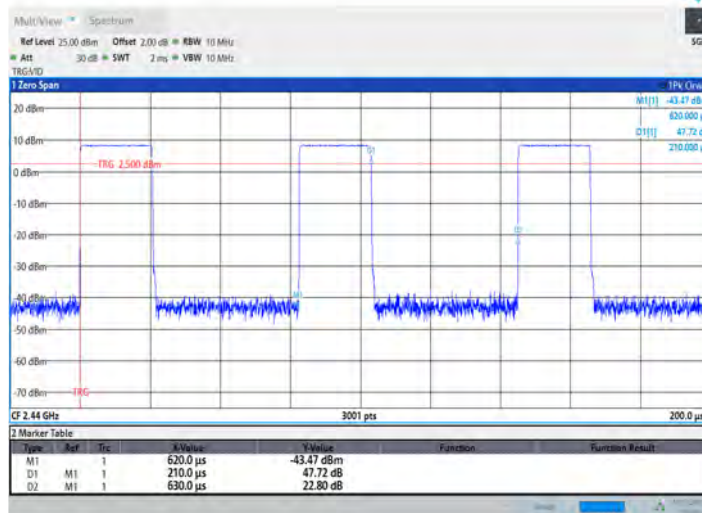
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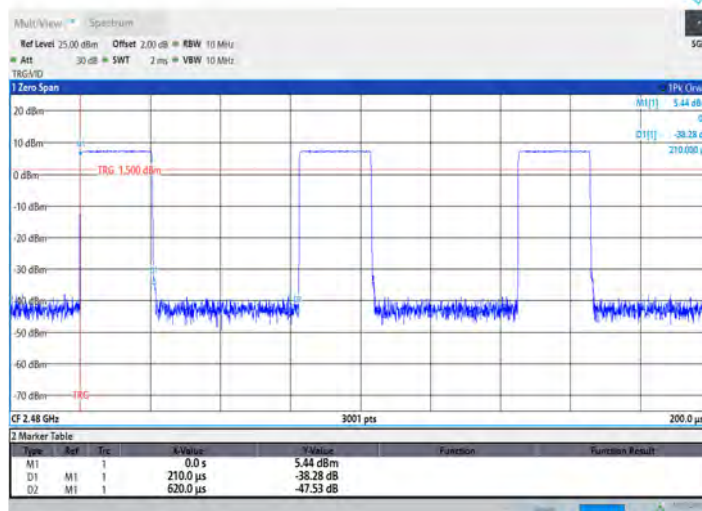
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18:28:31 18.12.2021

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18:31:29 18.12.2021



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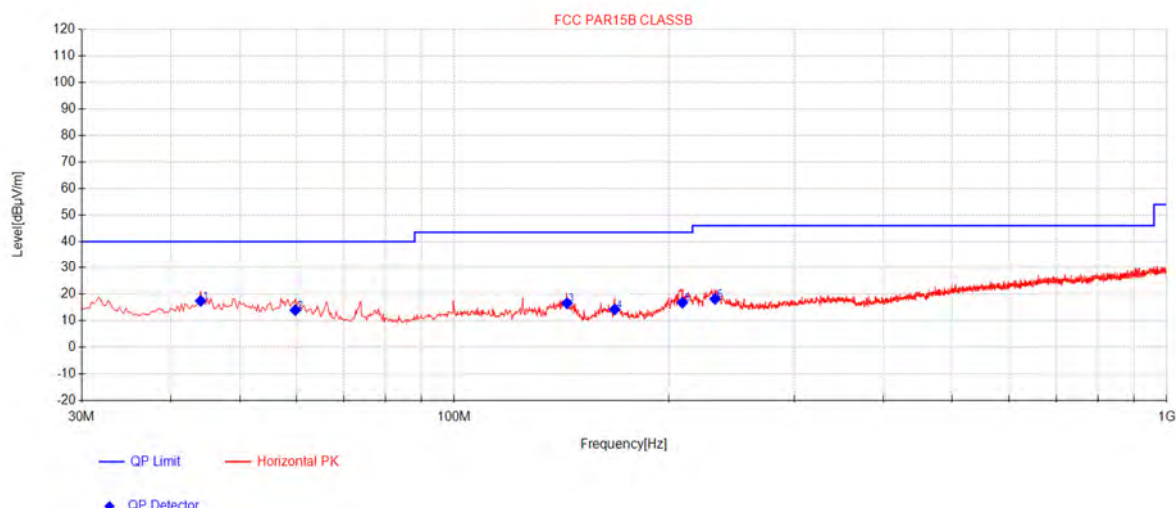
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case mode: BLE_1M_Channel 39



Final Data List									
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	32.55	-15.14	17.41	40.00	22.59	153	222	Horizontal
2	59.8275	30.15	-16.20	13.95	40.00	26.05	110	184	Horizontal
3	143.975	36.48	-19.95	16.53	43.50	26.97	100	153	Horizontal
4	167.9825	32.88	-18.64	14.24	43.50	29.26	178	267	Horizontal
5	208.965	32.47	-15.71	16.76	43.50	26.74	205	312	Horizontal
6	232.245	32.87	-14.70	18.17	46.00	27.83	169	312	Horizontal



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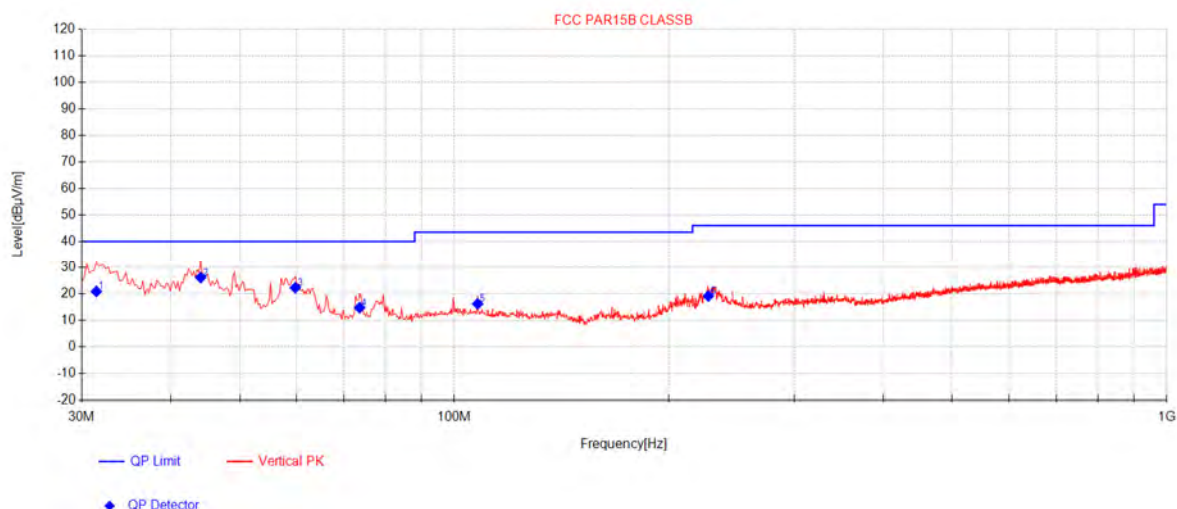
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Final Data List									
NO.	Freq. [MHz]	QP Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	31.455	38.95	-18.09	20.86	40.00	19.14	177	267	Vertical
2	44.065	41.25	-15.14	26.11	40.00	13.89	156	192	Vertical
3	59.8275	38.49	-16.20	22.29	40.00	17.71	205	296	Vertical
4	73.65	34.52	-19.73	14.79	40.00	25.21	100	132	Vertical
5	107.8425	32.88	-16.69	16.19	43.50	27.31	145	201	Vertical
6	227.395	33.95	-14.78	19.17	46.00	26.83	100	275	Vertical



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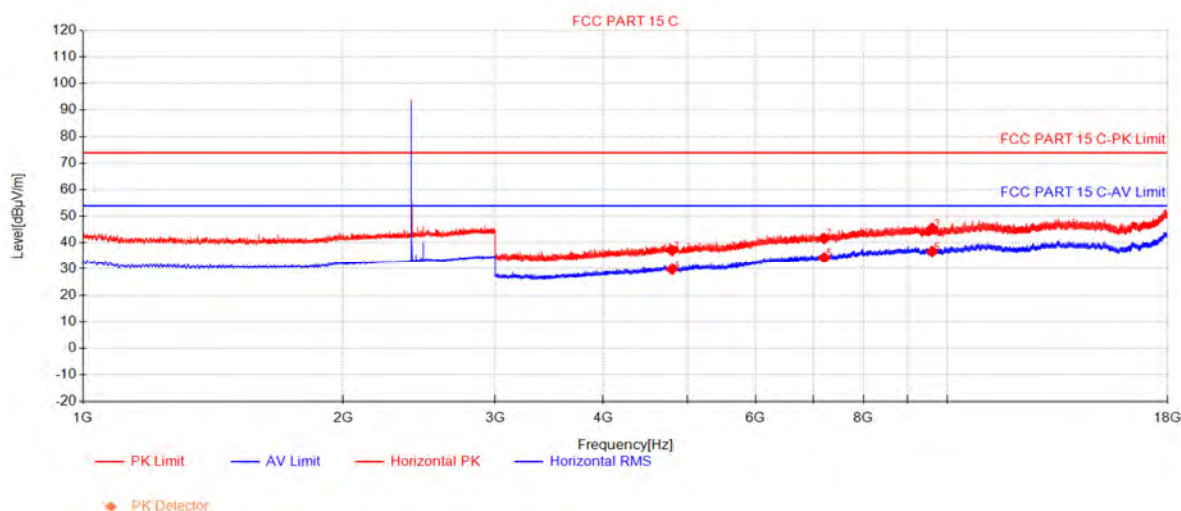
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Radiated emission Above 1GHz

ANT16

BLE 1M_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.49	-12.33	37.16	74.00	36.84	312	336	Horizontal
2	7206	47.59	-5.91	41.68	74.00	32.32	296	178	Horizontal
3	9608	45.03	0.49	45.52	74.00	28.48	187	216	Horizontal
4	4804	42.05	-12.33	29.72	54.00	24.28	158	98	Horizontal
5	7206	40.29	-5.91	34.38	54.00	19.62	176	87	Horizontal
6	9608	36.29	0.49	36.78	54.00	17.22	246	216	Horizontal



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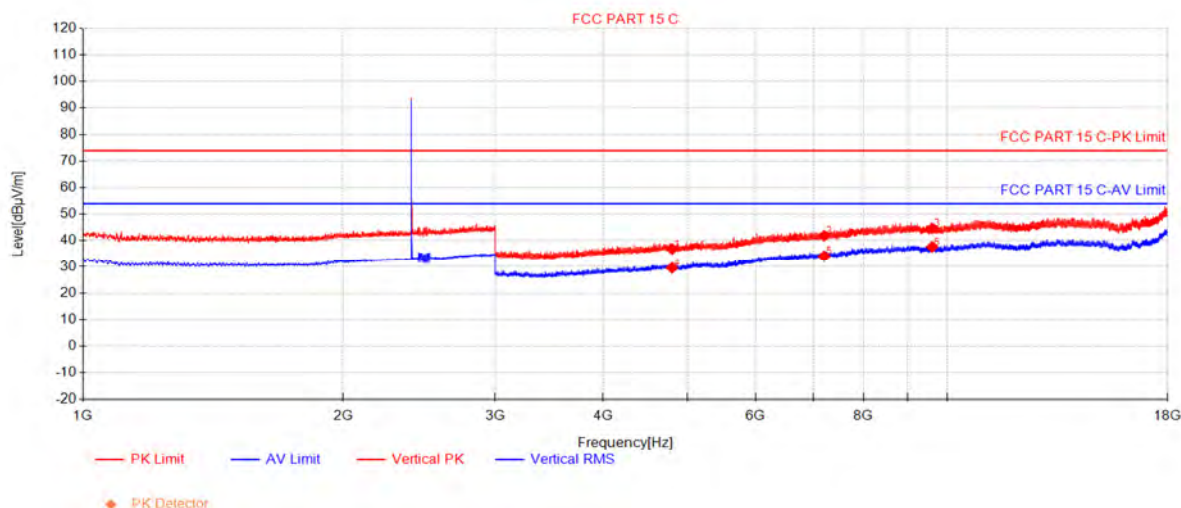
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BLE 1M_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.19	-12.33	36.86	74.00	37.14	246	87	Vertical
2	7206	47.85	-5.91	41.94	74.00	32.06	184	258	Vertical
3	9608	44.23	0.49	44.72	74.00	29.28	156	85	Vertical
4	4804	41.86	-12.33	29.53	54.00	24.47	186	167	Vertical
5	7206	40.03	-5.91	34.12	54.00	19.88	275	284	Vertical
6	9608	37.21	0.49	37.70	54.00	16.30	177	328	Vertical



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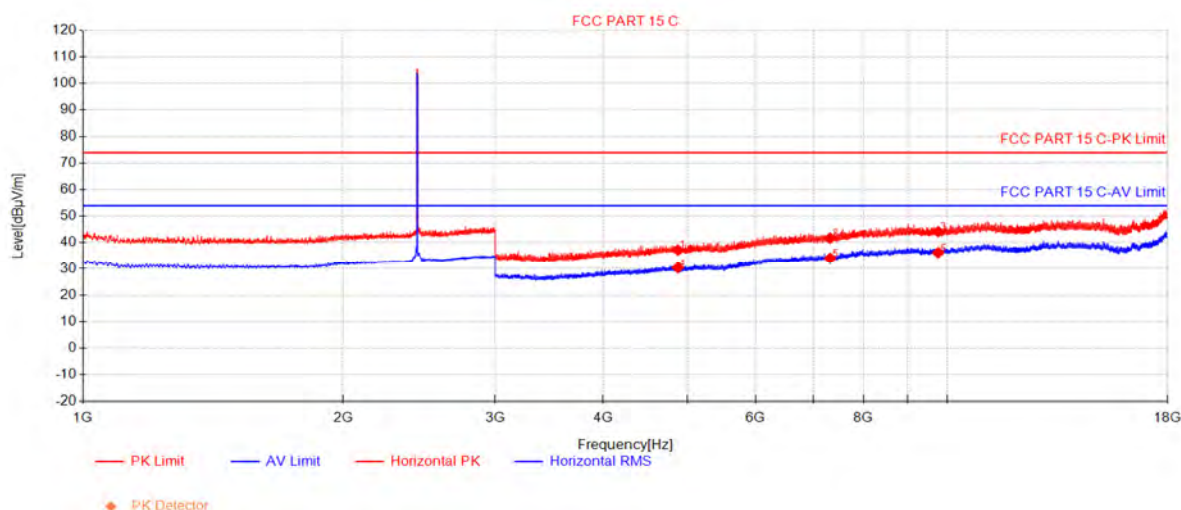
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BLE 1M_Channel 19



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.75	-12.48	37.27	74.00	36.73	162	237	Horizontal
2	7320	47.18	-5.41	41.77	74.00	32.23	310	89	Horizontal
3	9760	43.23	1.02	44.25	74.00	29.75	188	17	Horizontal
4	4880	42.83	-12.48	30.35	54.00	23.65	175	317	Horizontal
5	7320	39.50	-5.41	34.09	54.00	19.91	287	145	Horizontal
6	9760	35.22	1.02	36.24	54.00	17.76	247	307	Horizontal



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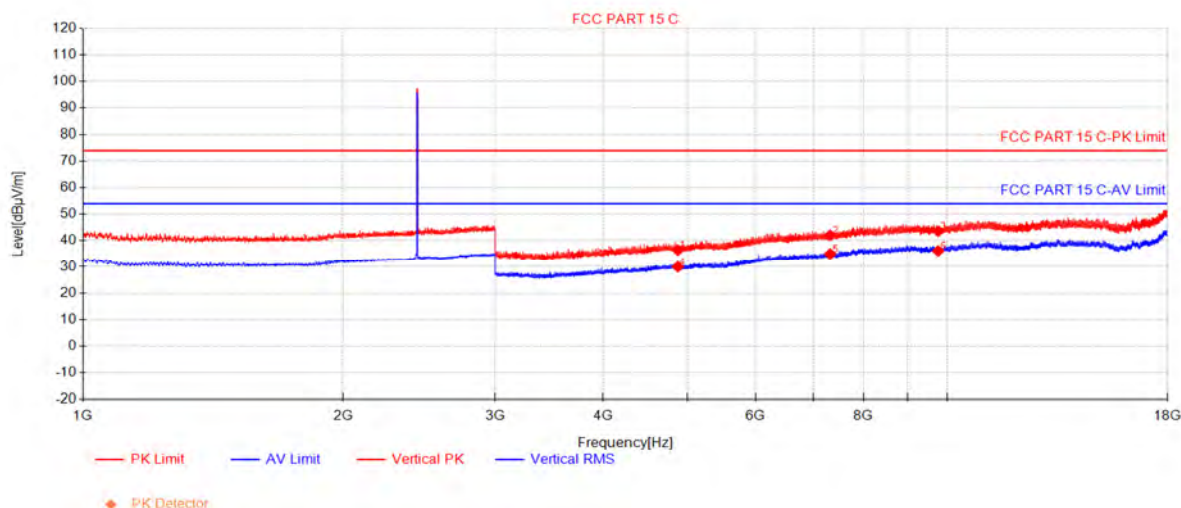
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	48.90	-12.48	36.42	74.00	37.58	305	237	Vertical
2	7320	47.50	-5.41	42.09	74.00	31.91	284	86	Vertical
3	9760	42.60	1.02	43.62	74.00	30.38	175	172	Vertical
4	4880	42.42	-12.48	29.94	54.00	24.06	176	186	Vertical
5	7320	40.38	-5.41	34.97	54.00	19.03	175	245	Vertical
6	9760	35.12	1.02	36.14	54.00	17.86	294	95	Vertical



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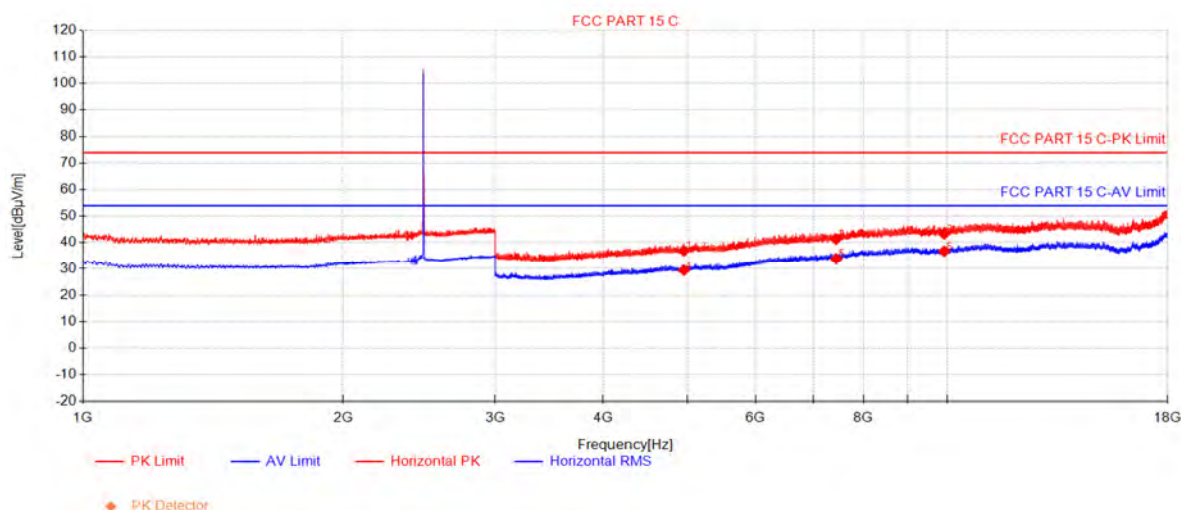
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.34	-12.41	36.93	74.00	37.07	186	357	Horizontal
2	7440	46.76	-5.36	41.40	74.00	32.60	264	247	Horizontal
3	9920	42.04	1.29	43.33	74.00	30.67	175	7	Horizontal
4	4960	41.81	-12.41	29.40	54.00	24.60	247	287	Horizontal
5	7440	39.19	-5.36	33.83	54.00	20.17	185	326	Horizontal
6	9920	35.47	1.29	36.76	54.00	17.24	188	68	Horizontal



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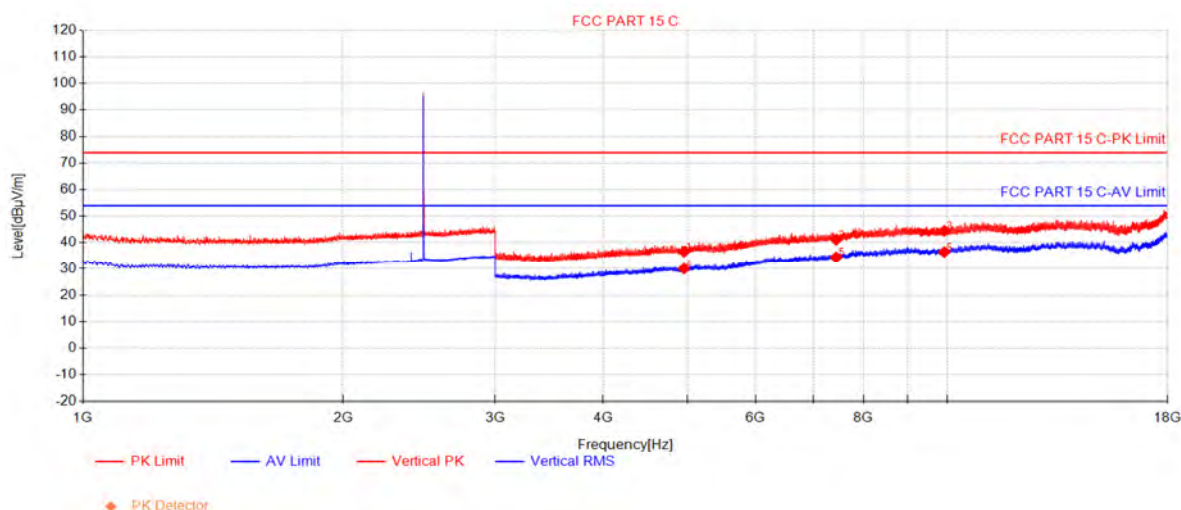
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BLE 1M_Channel 39



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.98	-12.41	36.57	74.00	37.43	185	174	Vertical
2	7440	46.50	-5.36	41.14	74.00	32.86	248	316	Vertical
3	9920	43.22	1.29	44.51	74.00	29.49	215	287	Vertical
4	4960	42.38	-12.41	29.97	54.00	24.03	174	186	Vertical
5	7440	39.83	-5.36	34.47	54.00	19.53	298	84	Vertical
6	9920	35.21	1.29	36.50	54.00	17.50	175	235	Vertical



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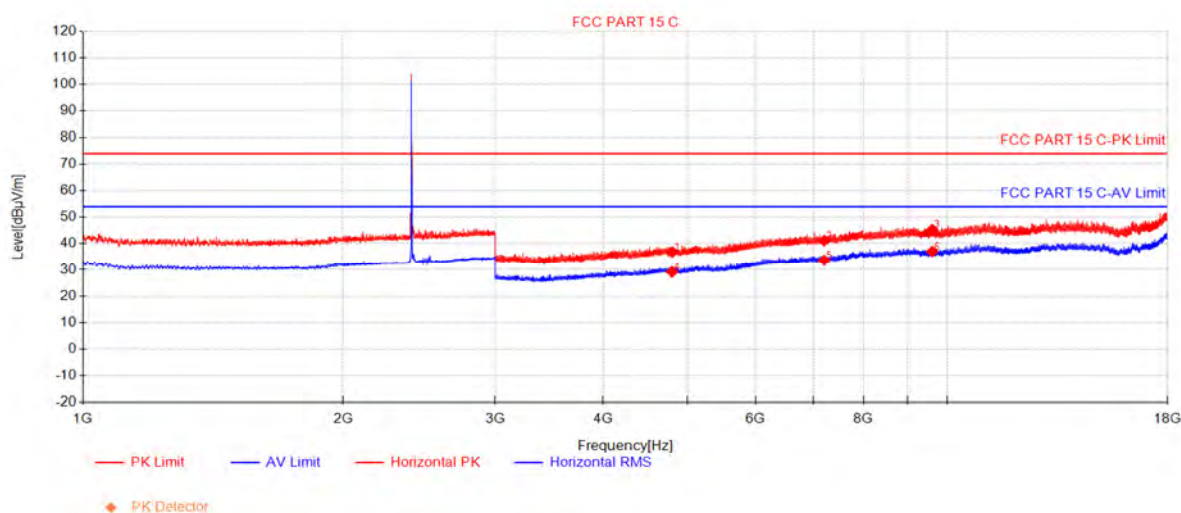
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.19	-12.33	36.86	74.00	37.14	235	297	Horizontal
2	7206	47.11	-5.91	41.20	74.00	32.80	148	47	Horizontal
3	9608	44.88	0.49	45.37	74.00	28.63	248	47	Horizontal
4	4804	41.45	-12.33	29.12	54.00	24.88	176	96	Horizontal
5	7206	39.56	-5.91	33.65	54.00	20.35	310	26	Horizontal
6	9608	36.56	0.49	37.05	54.00	16.95	148	257	Horizontal



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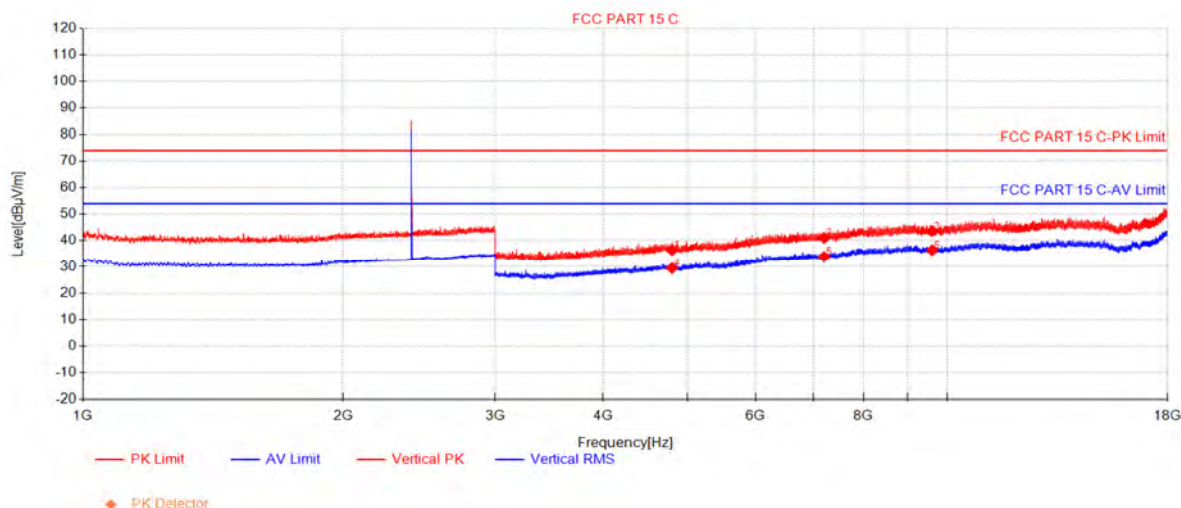
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	48.74	-12.33	36.41	74.00	37.59	186	217	Vertical
2	7206	46.99	-5.91	41.08	74.00	32.92	246	36	Vertical
3	9608	43.20	0.49	43.69	74.00	30.31	115	226	Vertical
4	4804	41.77	-12.33	29.44	54.00	24.56	175	206	Vertical
5	7206	39.76	-5.91	33.85	54.00	20.15	298	226	Vertical
6	9608	35.92	0.49	36.41	54.00	17.59	175	226	Vertical



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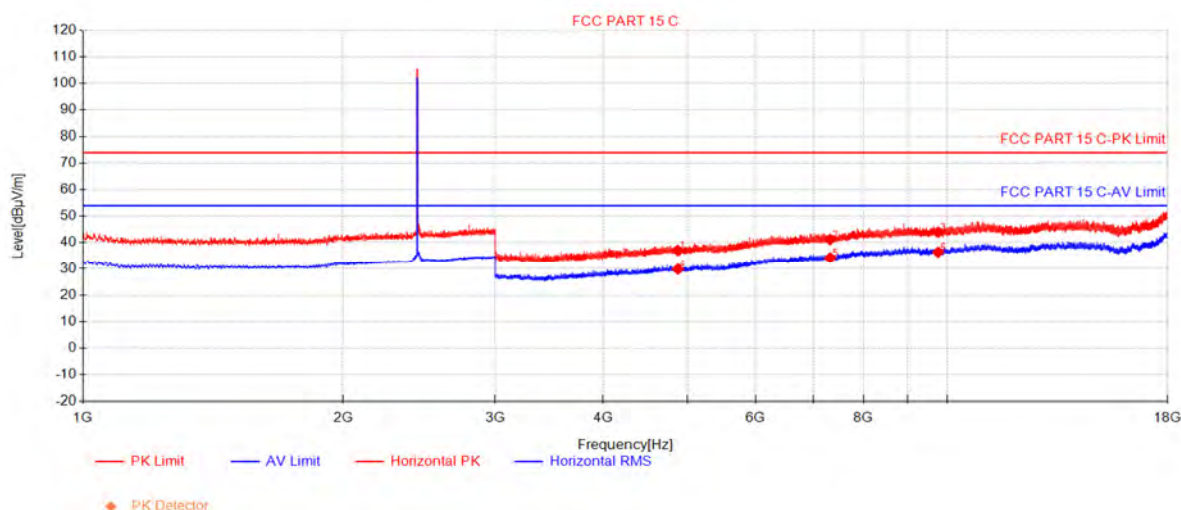
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.56	-12.48	37.08	74.00	36.92	168	135	Horizontal
2	7320	46.61	-5.41	41.20	74.00	32.80	279	14	Horizontal
3	9760	43.03	1.02	44.05	74.00	29.95	176	327	Horizontal
4	4880	42.29	-12.48	29.81	54.00	24.19	175	115	Horizontal
5	7320	39.66	-5.41	34.25	54.00	19.75	284	95	Horizontal
6	9760	35.39	1.02	36.41	54.00	17.59	186	166	Horizontal



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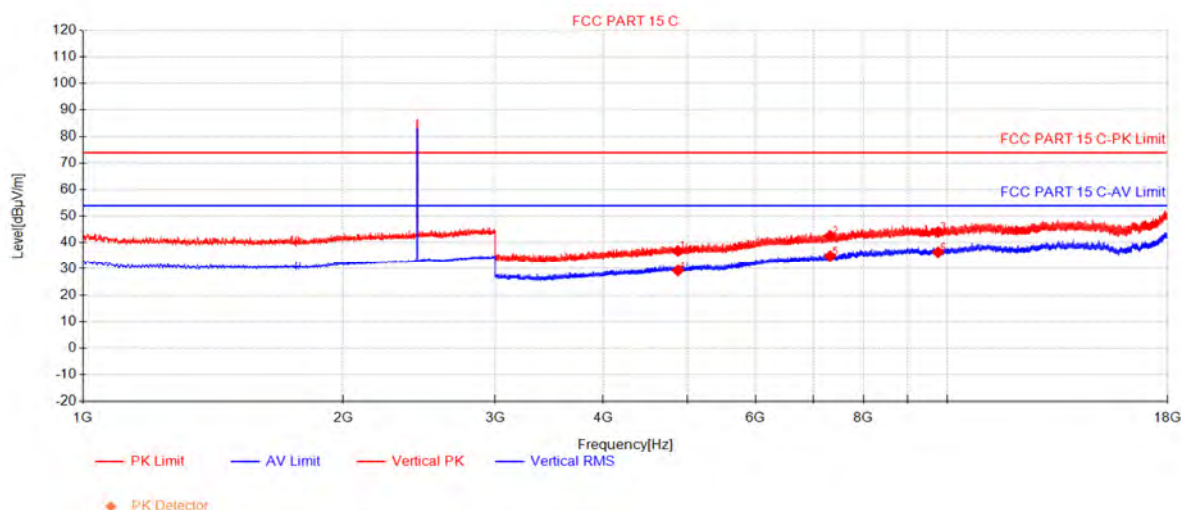
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.44	-12.48	36.96	74.00	37.04	246	89	Vertical
2	7320	48.07	-5.41	42.66	74.00	31.34	197	25	Vertical
3	9760	43.09	1.02	44.11	74.00	29.89	284	55	Vertical
4	4880	41.73	-12.48	29.25	54.00	24.75	186	357	Vertical
5	7320	40.35	-5.41	34.94	54.00	19.06	247	105	Vertical
6	9760	35.39	1.02	36.41	54.00	17.59	175	276	Vertical



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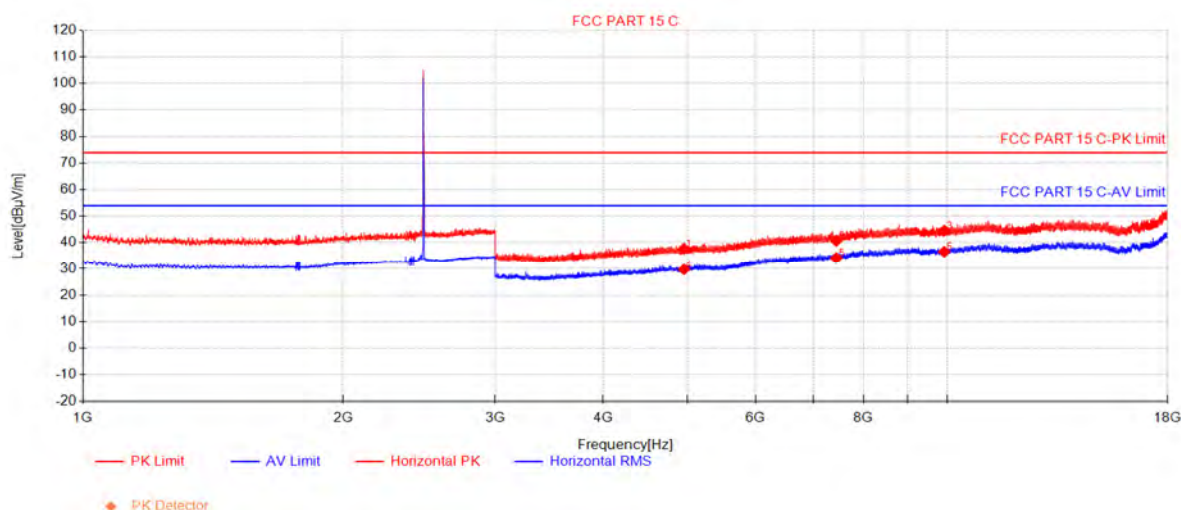
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.20	-12.41	37.79	74.00	36.21	175	76	Horizontal
2	7440	46.08	-5.36	40.72	74.00	33.28	302	286	Horizontal
3	9920	43.30	1.29	44.59	74.00	29.41	247	306	Horizontal
4	4960	42.11	-12.41	29.70	54.00	24.30	148	236	Horizontal
5	7440	39.54	-5.36	34.18	54.00	19.82	198	57	Horizontal
6	9920	35.32	1.29	36.61	54.00	17.39	248	216	Horizontal



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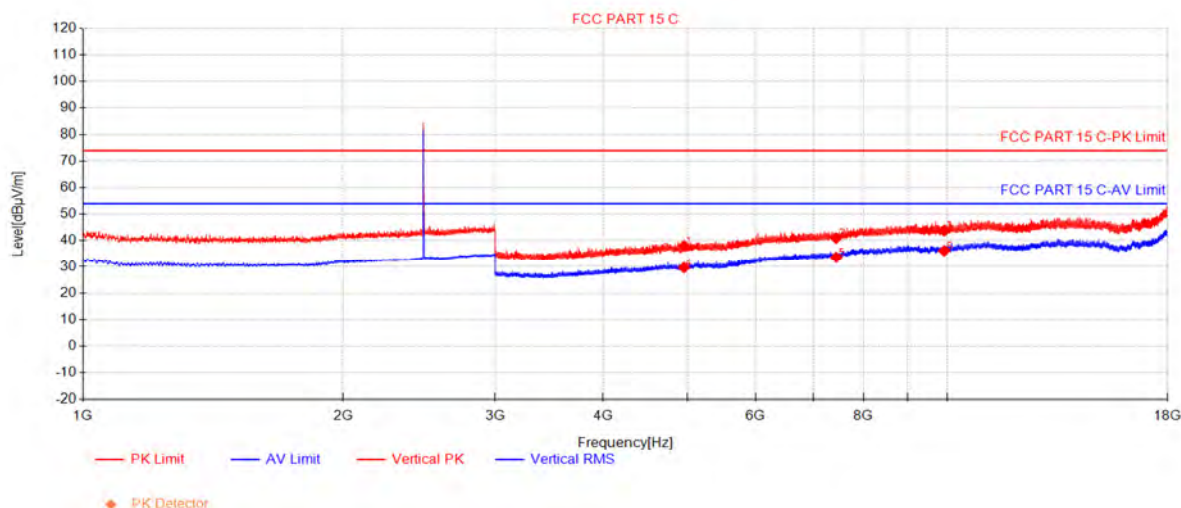
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.50	-12.41	38.09	74.00	35.91	185	206	Vertical
2	7440	46.37	-5.36	41.01	74.00	32.99	246	338	Vertical
3	9920	42.59	1.29	43.88	74.00	30.12	248	197	Vertical
4	4960	42.04	-12.41	29.63	54.00	24.37	174	226	Vertical
5	7440	38.98	-5.36	33.62	54.00	20.38	287	27	Vertical
6	9920	34.91	1.29	36.20	54.00	17.80	175	357	Vertical



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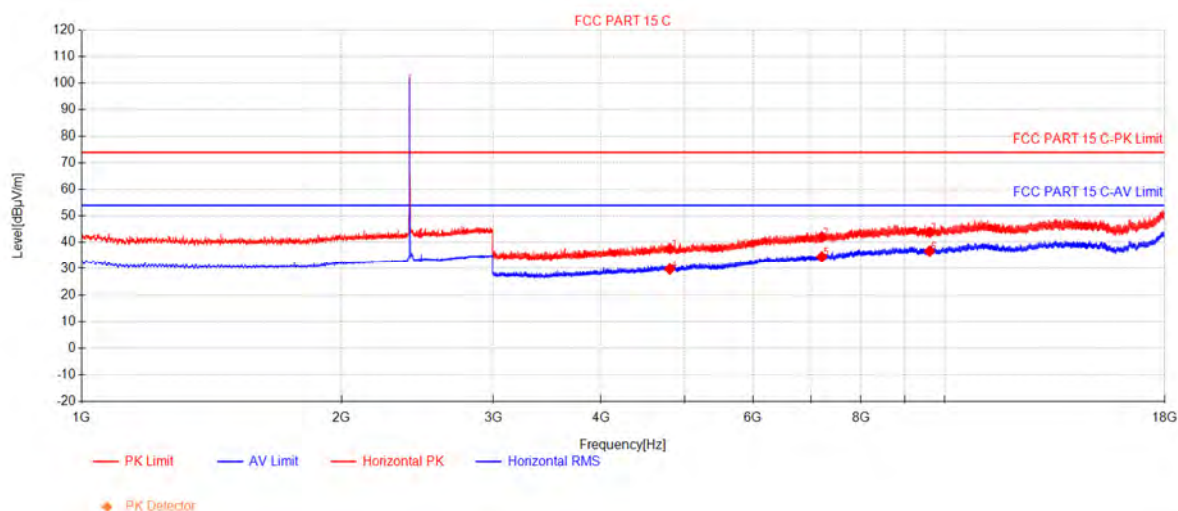
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.97	-12.33	37.64	74.00	36.36	174	128	Horizontal
2	7206	48.01	-5.91	42.10	74.00	31.90	218	193	Horizontal
3	9608	43.38	0.49	43.87	74.00	30.13	118	233	Horizontal
4	4804	42.03	-12.33	29.70	54.00	24.30	163	284	Horizontal
5	7206	40.50	-5.91	34.59	54.00	19.41	148	233	Horizontal
6	9608	36.27	0.49	36.76	54.00	17.24	246	33	Horizontal



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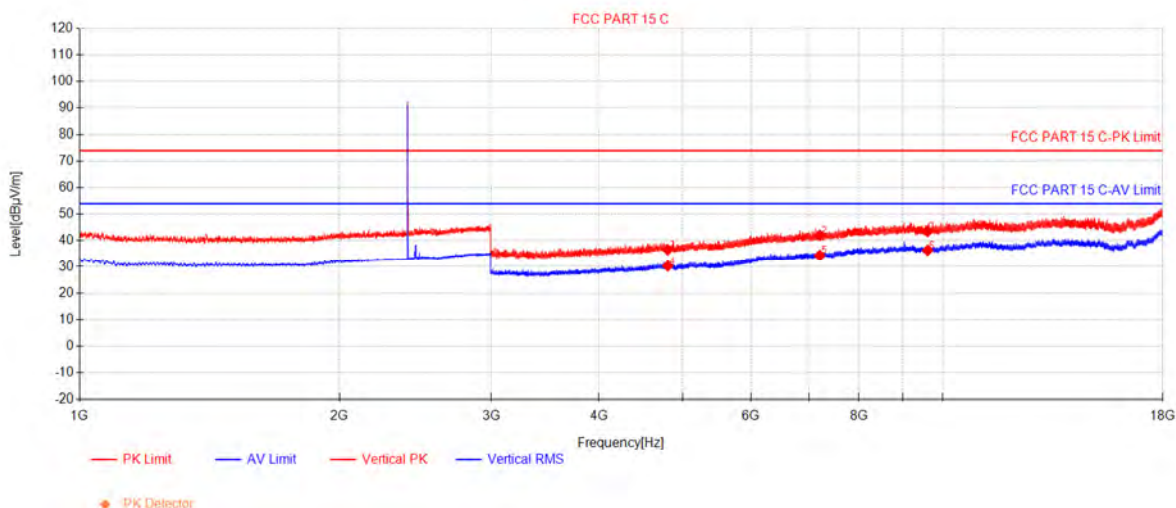
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	48.92	-12.33	36.59	74.00	37.41	186	233	Vertical
2	7206	47.98	-5.91	42.07	74.00	31.93	175	203	Vertical
3	9608	43.04	0.49	43.53	74.00	30.47	248	43	Vertical
4	4804	42.60	-12.33	30.27	54.00	23.73	246	360	Vertical
5	7206	40.33	-5.91	34.42	54.00	19.58	147	203	Vertical
6	9608	35.89	0.49	36.38	54.00	17.62	168	153	Vertical



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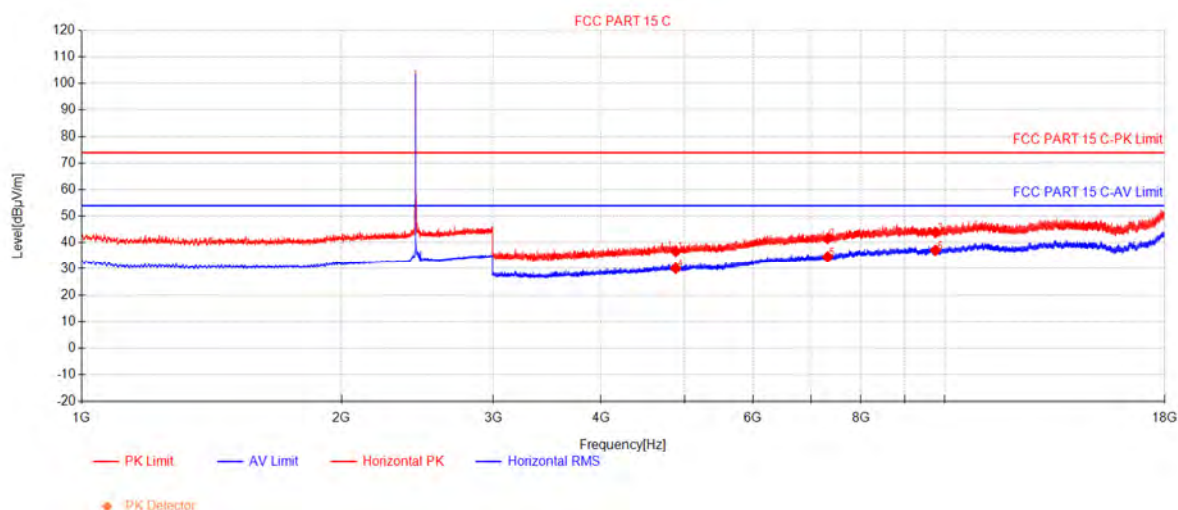
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.30	-12.48	36.82	74.00	37.18	162	114	Horizontal
2	7320	47.05	-5.41	41.64	74.00	32.36	196	254	Horizontal
3	9760	42.94	1.02	43.96	74.00	30.04	185	3	Horizontal
4	4880	42.55	-12.48	30.07	54.00	23.93	184	335	Horizontal
5	7320	40.06	-5.41	34.65	54.00	19.35	244	144	Horizontal
6	9760	36.16	1.02	37.18	54.00	16.82	177	215	Horizontal



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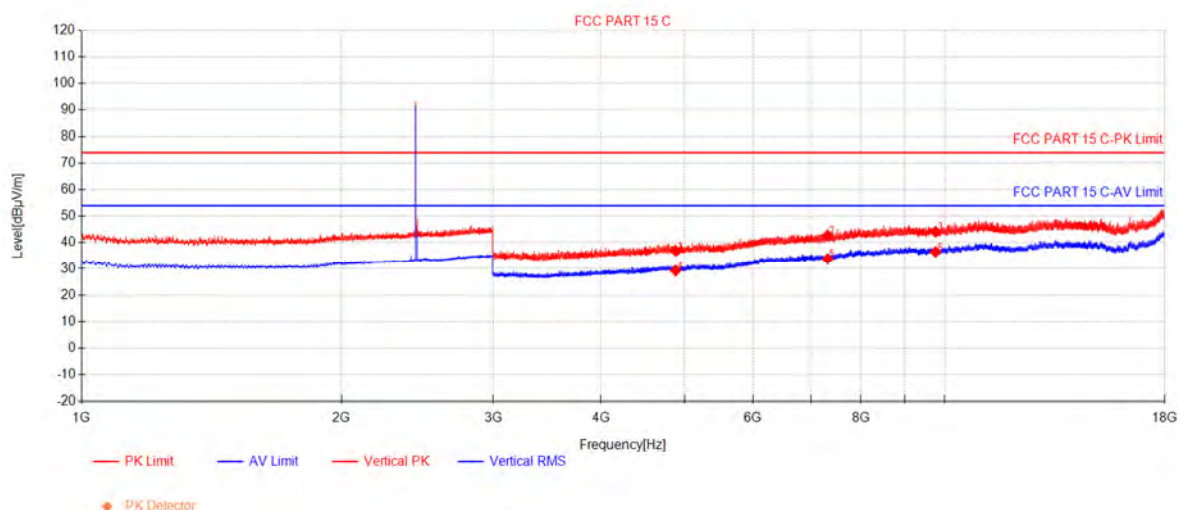
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.37	-12.48	36.89	74.00	37.11	196	359	Vertical
2	7320	48.20	-5.41	42.79	74.00	31.21	218	214	Vertical
3	9760	43.14	1.02	44.16	74.00	29.84	221	274	Vertical
4	4880	41.70	-12.48	29.22	54.00	24.78	174	43	Vertical
5	7320	39.23	-5.41	33.82	54.00	20.18	302	214	Vertical
6	9760	35.52	1.02	36.54	54.00	17.46	188	245	Vertical



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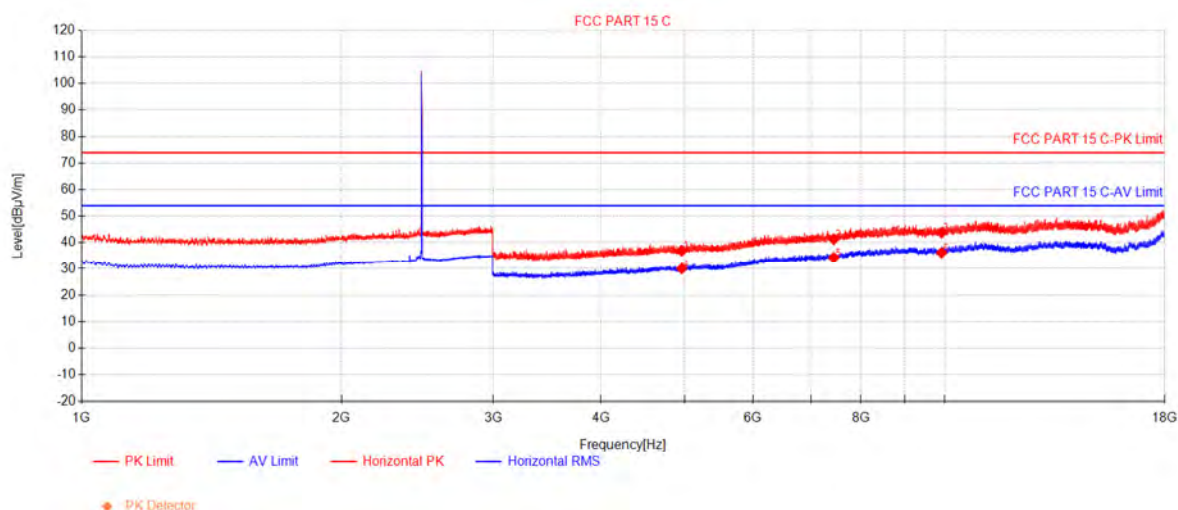
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.36	-12.41	36.95	74.00	37.05	169	23	Horizontal
2	7440	46.66	-5.36	41.30	74.00	32.70	247	113	Horizontal
3	9920	42.52	1.29	43.81	74.00	30.19	105	23	Horizontal
4	4960	42.43	-12.41	30.02	54.00	23.98	178	14	Horizontal
5	7440	39.72	-5.36	34.36	54.00	19.64	299	73	Horizontal
6	9920	34.94	1.29	36.23	54.00	17.77	248	264	Horizontal



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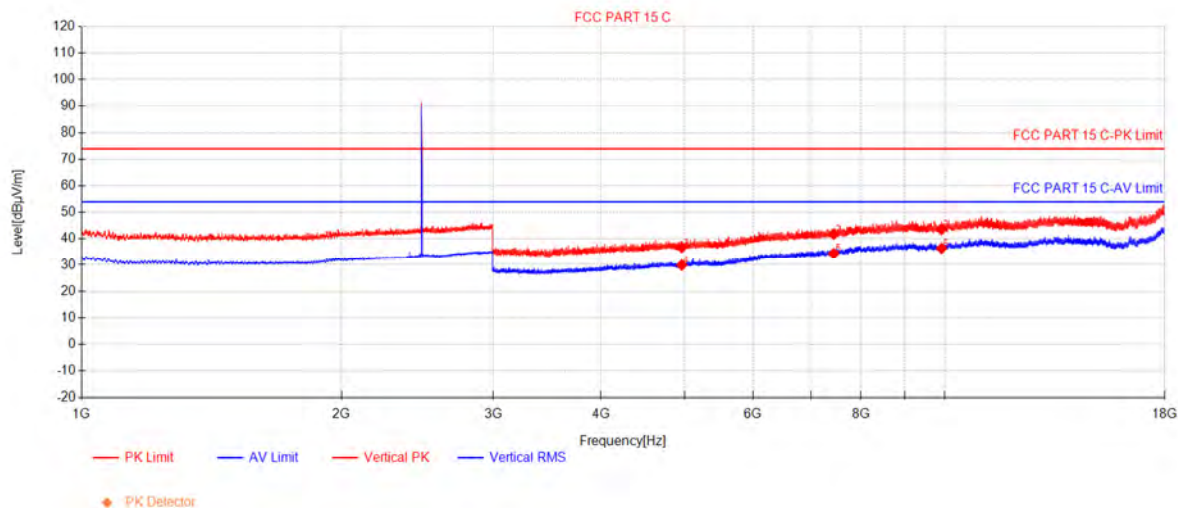
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.17	-12.41	36.76	74.00	37.24	149	255	Vertical
2	7440	47.22	-5.36	41.86	74.00	32.14	302	63	Vertical
3	9920	42.29	1.29	43.58	74.00	30.42	187	74	Vertical
4	4960	42.27	-12.41	29.86	54.00	24.14	214	4	Vertical
5	7440	39.80	-5.36	34.44	54.00	19.56	187	175	Vertical
6	9920	35.12	1.29	36.41	54.00	17.59	226	306	Vertical



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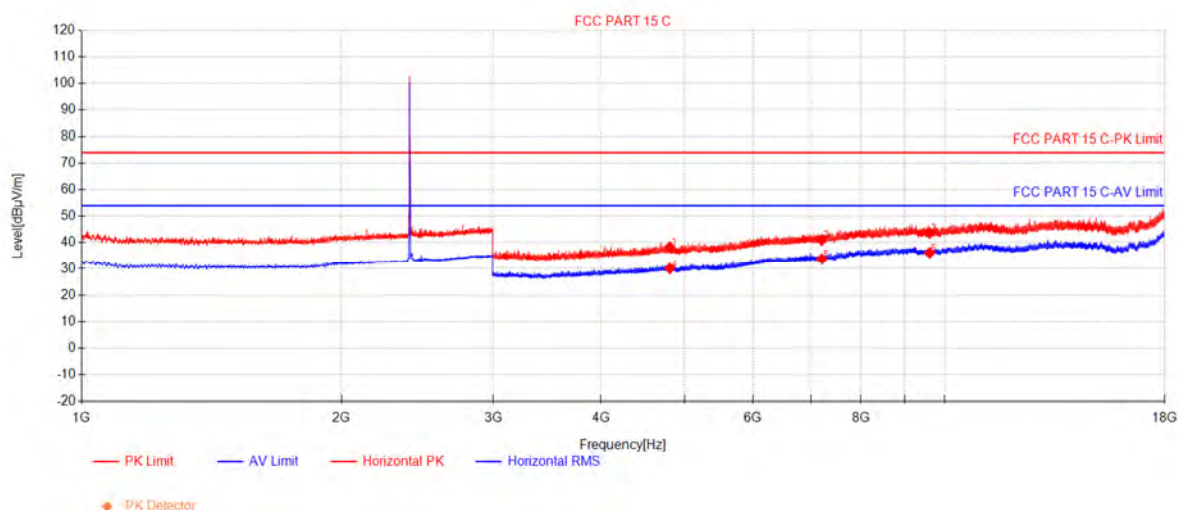
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.71	-12.33	38.38	74.00	35.62	185	83	Horizontal
2	7206	46.94	-5.91	41.03	74.00	32.97	246	173	Horizontal
3	9608	43.23	0.49	43.72	74.00	30.28	115	103	Horizontal
4	4804	42.36	-12.33	30.03	54.00	23.97	175	333	Horizontal
5	7206	39.69	-5.91	33.78	54.00	20.22	304	163	Horizontal
6	9608	35.67	0.49	36.16	54.00	17.84	196	183	Horizontal



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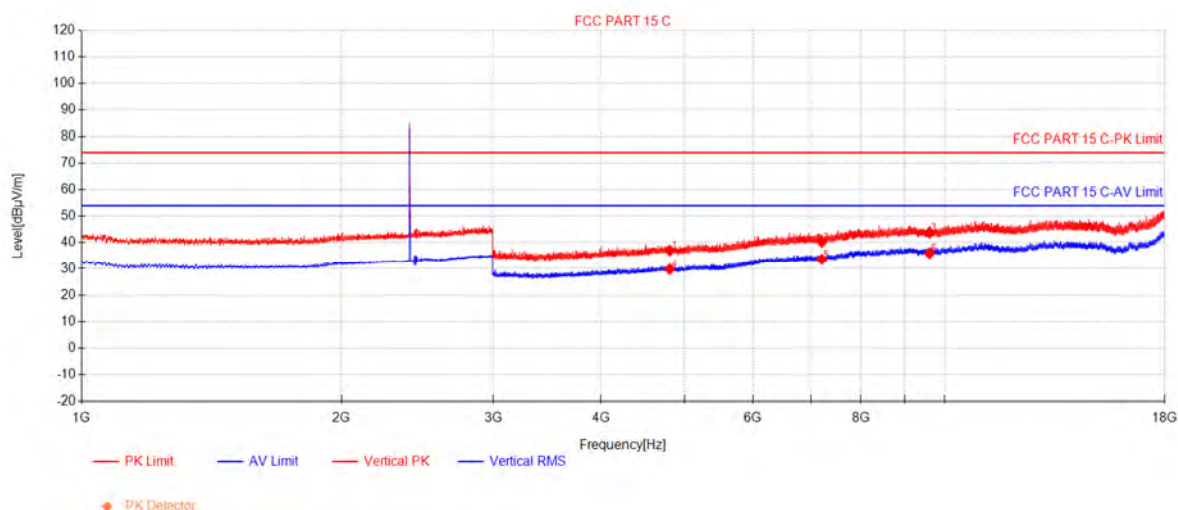
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.38	-12.33	37.05	74.00	36.95	163	43	Vertical
2	7206	46.23	-5.91	40.32	74.00	33.68	168	63	Vertical
3	9608	43.33	0.49	43.82	74.00	30.18	319	359	Vertical
4	4804	42.12	-12.33	29.79	54.00	24.21	147	323	Vertical
5	7206	39.52	-5.91	33.61	54.00	20.39	246	213	Vertical
6	9608	35.51	0.49	36.00	54.00	18.00	284	360	Vertical



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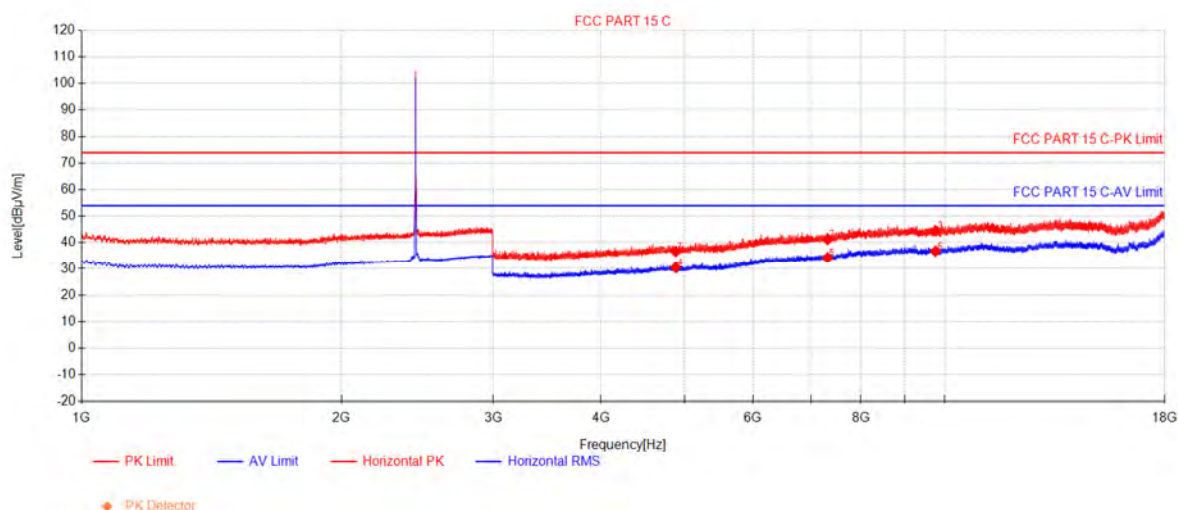
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Data List

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1	4880	49.19	-12.48	36.71	74.00	37.29	163	304	Horizontal
2	7320	46.74	-5.41	41.33	74.00	32.67	247	3	Horizontal
3	9760	43.57	1.02	44.59	74.00	29.41	244	92	Horizontal
4	4880	42.92	-12.48	30.44	54.00	23.56	174	358	Horizontal
5	7320	39.71	-5.41	34.30	54.00	19.70	246	313	Horizontal
6	9760	35.79	1.02	36.81	54.00	17.19	186	144	Horizontal



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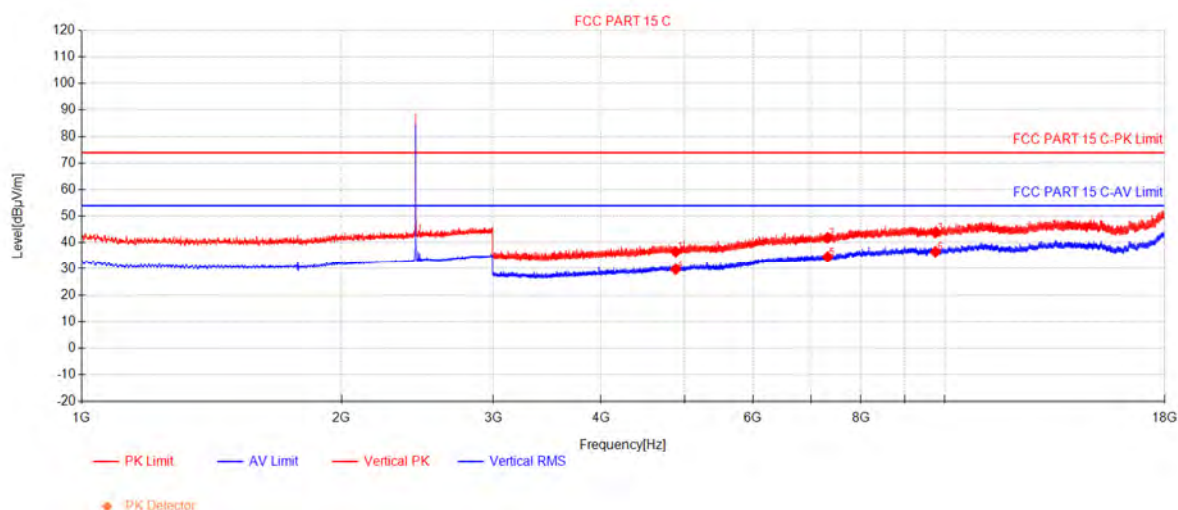
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1	4880	49.10	-12.48	36.62	74.00	37.38	163	234	Vertical
2	7320	47.36	-5.41	41.95	74.00	32.05	125296	94	Vertical
3	9760	42.85	1.02	43.87	74.00	30.13	216	360	Vertical
4	4880	42.20	-12.48	29.72	54.00	24.28	144	153	Vertical
5	7320	40.07	-5.41	34.66	54.00	19.34	175	114	Vertical
6	9760	35.58	1.02	36.60	54.00	17.40	276	360	Vertical



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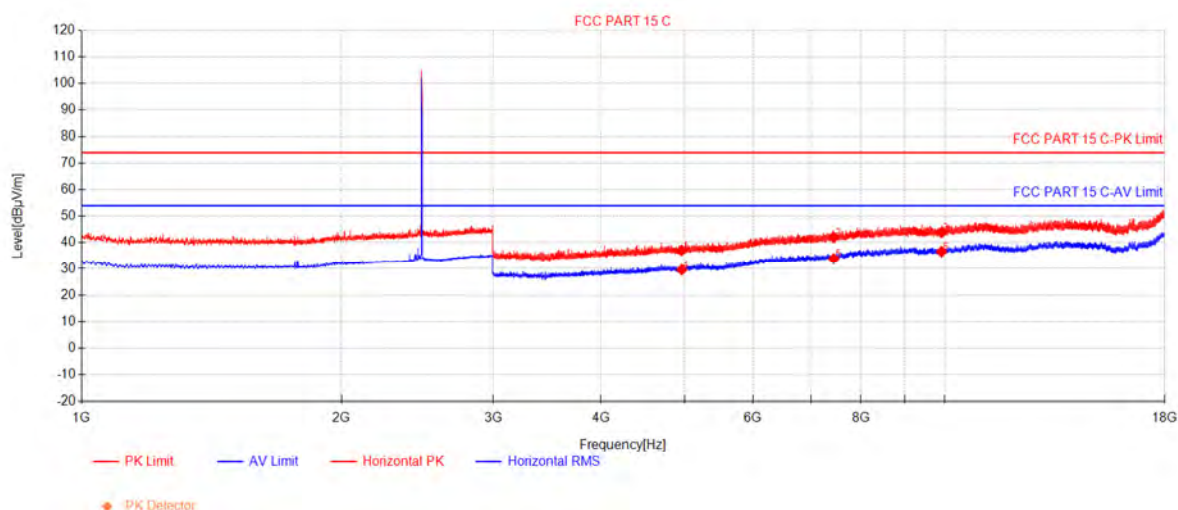
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1	4960	49.53	-12.41	37.12	74.00	36.88	248	42	Horizontal
2	7440	47.46	-5.36	42.10	74.00	31.90	286	303	Horizontal
3	9920	42.66	1.29	43.95	74.00	30.05	261	42	Horizontal
4	4960	41.98	-12.41	29.57	54.00	24.43	175	293	Horizontal
5	7440	39.26	-5.36	33.90	54.00	20.10	184	92	Horizontal
6	9920	35.34	1.29	36.63	54.00	17.37	114	3	Horizontal



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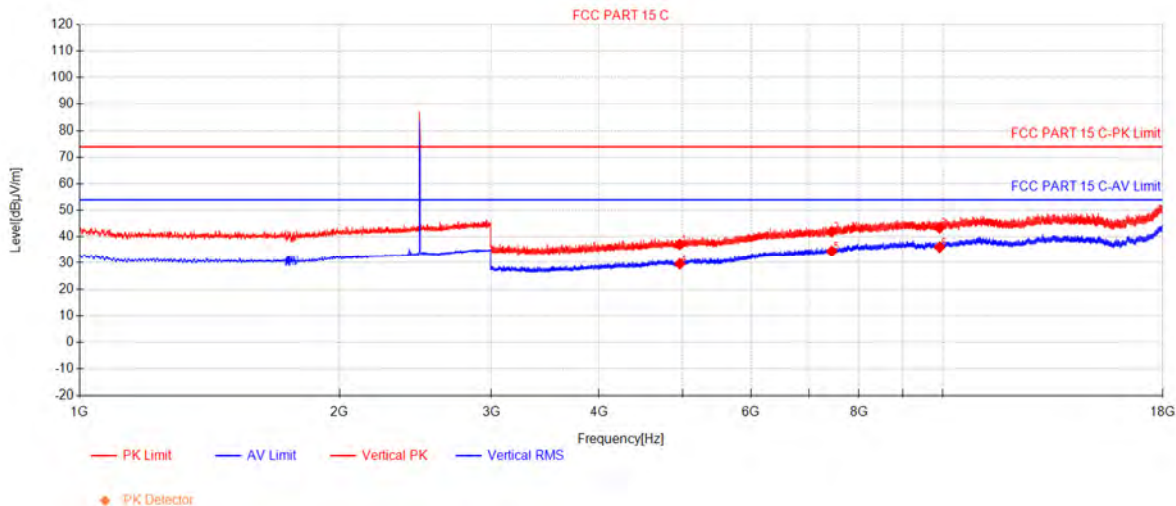
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.60	-12.41	37.19	74.00	36.81	184	72	Vertical
2	7440	47.41	-5.36	42.05	74.00	31.95	186	162	Vertical
3	9920	42.16	1.29	43.45	74.00	30.55	178	122	Vertical
4	4960	41.95	-12.41	29.54	54.00	24.46	274	193	Vertical
5	7440	39.92	-5.36	34.56	54.00	19.44	246	53	Vertical
6	9920	34.83	1.29	36.12	54.00	17.88	278	23	Vertical



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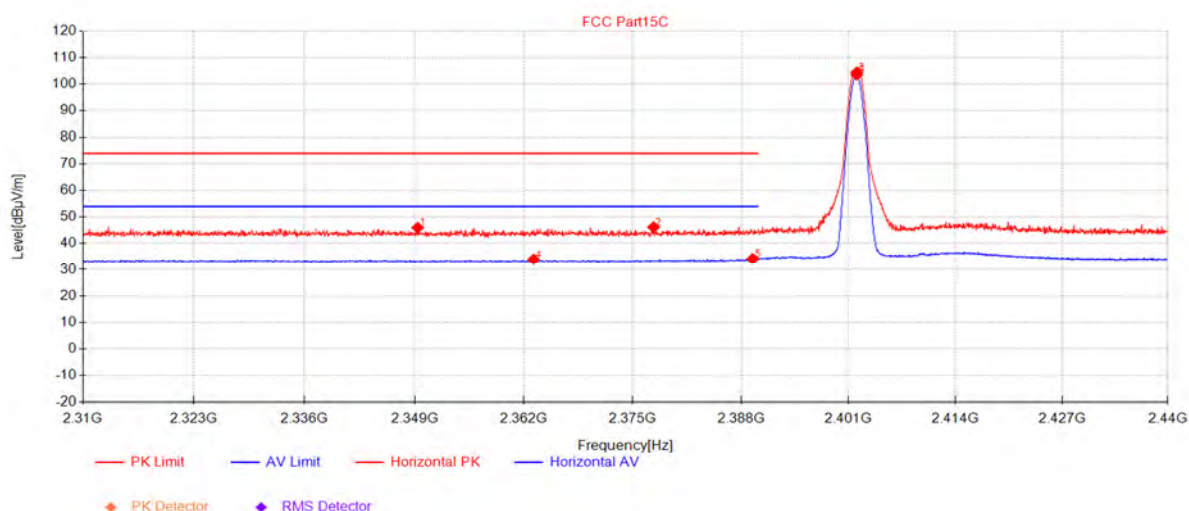
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Restricted bands around fundamental frequency

ANT16

BLE 1M_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2349.3598	42.91	3.09	46.00	74.00	28.00	159	20	Horizontal
2	2377.4925	42.99	3.21	46.20	74.00	27.80	159	20	Horizontal
3	2402	101.05	3.31	104.36	-	-	159	20	Horizontal
4	2363.1444	30.80	3.15	33.95	54.00	20.05	159	20	Horizontal
5	2389.4131	30.94	3.26	34.20	54.00	19.80	159	20	Horizontal
6	2402	100.14	3.31	103.45	-	-	159	20	Horizontal



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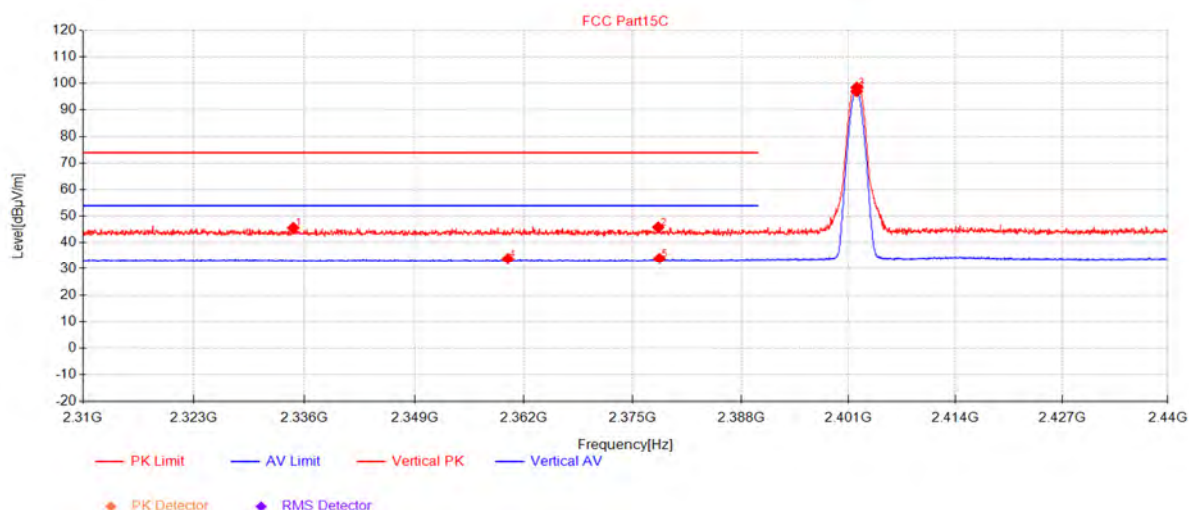
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2334.6649	42.64	3.03	45.67	74.00	28.33	353	118	Vertical
2	2378.056	42.68	3.21	45.89	74.00	28.11	353	118	Vertical
3	2402	95.04	3.31	98.35	-	-	353	118	Vertical
4	2360.0667	30.74	3.13	33.87	54.00	20.13	353	118	Vertical
5	2378.1861	30.81	3.21	34.02	54.00	19.98	353	118	Vertical
6	2402	93.59	3.31	96.90	-	-	353	118	Vertical



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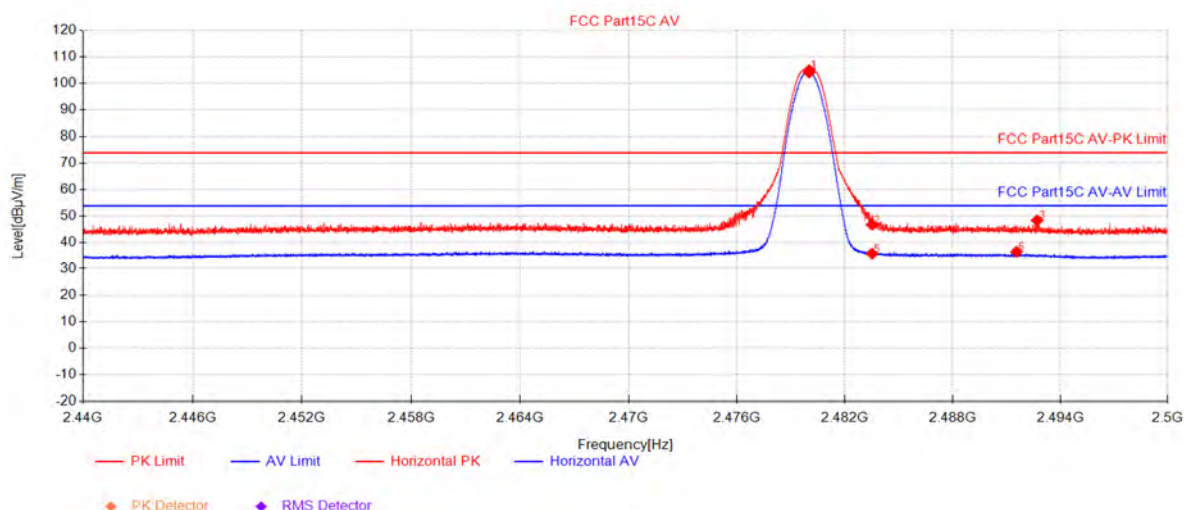
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	100.97	3.88	104.85	-	-	100	200	Horizontal
2	2483.5	42.91	3.91	46.82	74.00	27.18	100	60	Horizontal
3	2492.695	44.52	3.98	48.50	74.00	25.50	100	360	Horizontal
4	2480	100.13	3.88	104.01	-	-	100	260	Horizontal
5	2483.5	32.00	3.91	35.91	54.00	18.09	100	280	Horizontal
6	2491.5475	32.63	3.97	36.60	54.00	17.40	100	310	Horizontal



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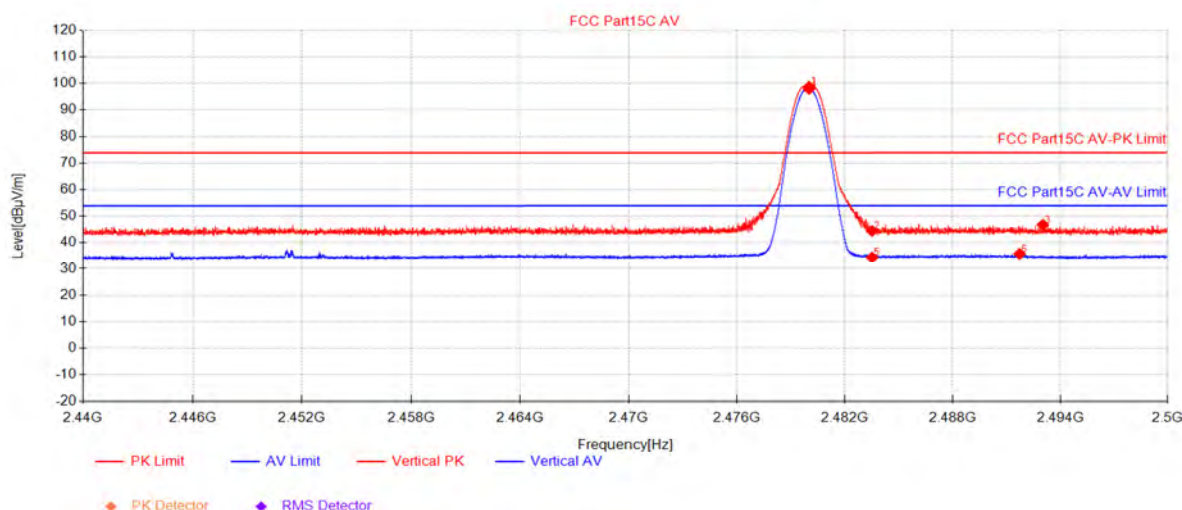
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	94.75	3.88	98.63	-	-	338	121	Vertical
2	2483.5	40.58	3.91	44.49	74.00	29.51	338	121	Vertical
3	2493.01	42.86	3.98	46.84	74.00	27.16	338	121	Vertical
4	2480	93.91	3.88	97.79	-	-	338	121	Vertical
5	2483.5	30.55	3.91	34.46	54.00	19.54	338	121	Vertical
6	2491.7125	31.83	3.97	35.80	54.00	18.20	338	121	Vertical



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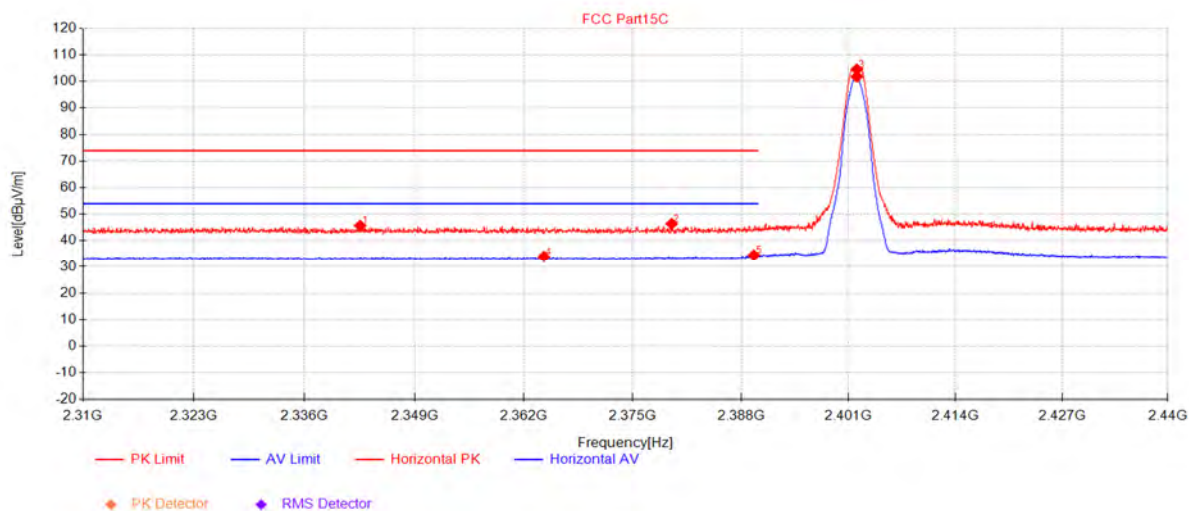
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.5542	42.68	3.06	45.74	74.00	28.26	166	22	Horizontal
2	2379.6599	43.24	3.21	46.45	74.00	27.55	166	22	Horizontal
3	2402	101.13	3.31	104.44	-	-	166	22	Horizontal
4	2364.3581	30.81	3.15	33.96	54.00	20.04	166	22	Horizontal
5	2389.5432	31.28	3.26	34.54	54.00	19.46	166	22	Horizontal
6	2402	98.33	3.31	101.64	-	-	166	22	Horizontal



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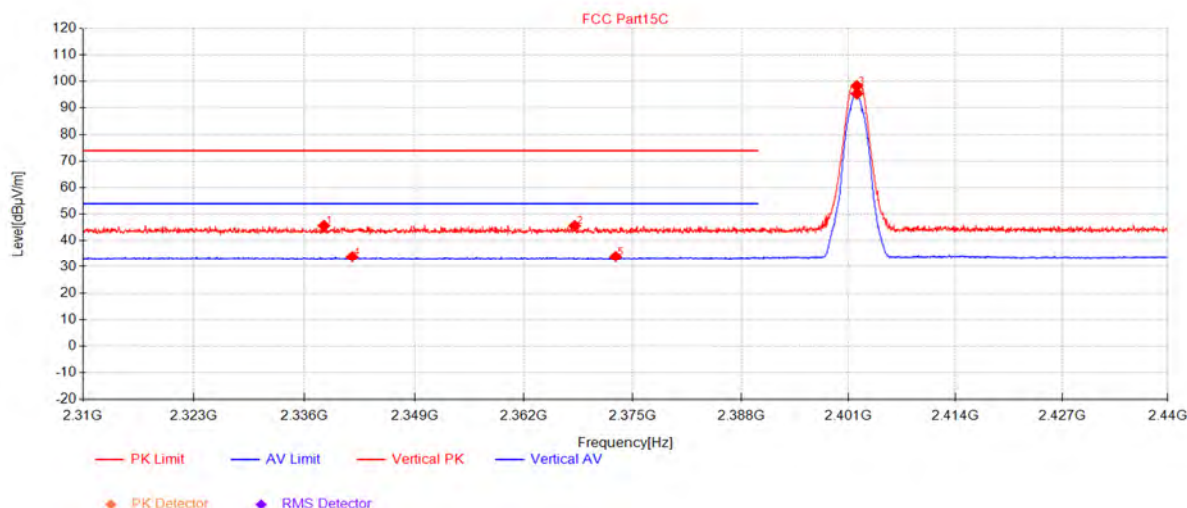
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2338.2628	42.68	3.04	45.72	74.00	28.28	317	118	Vertical
2	2368.0427	42.50	3.17	45.67	74.00	28.33	317	118	Vertical
3	2402	94.88	3.31	98.19	-	-	317	118	Vertical
4	2341.6005	30.82	3.05	33.87	54.00	20.13	317	118	Vertical
5	2372.941	30.76	3.19	33.95	54.00	20.05	317	118	Vertical
6	2402	91.94	3.31	95.25	-	-	317	118	Vertical



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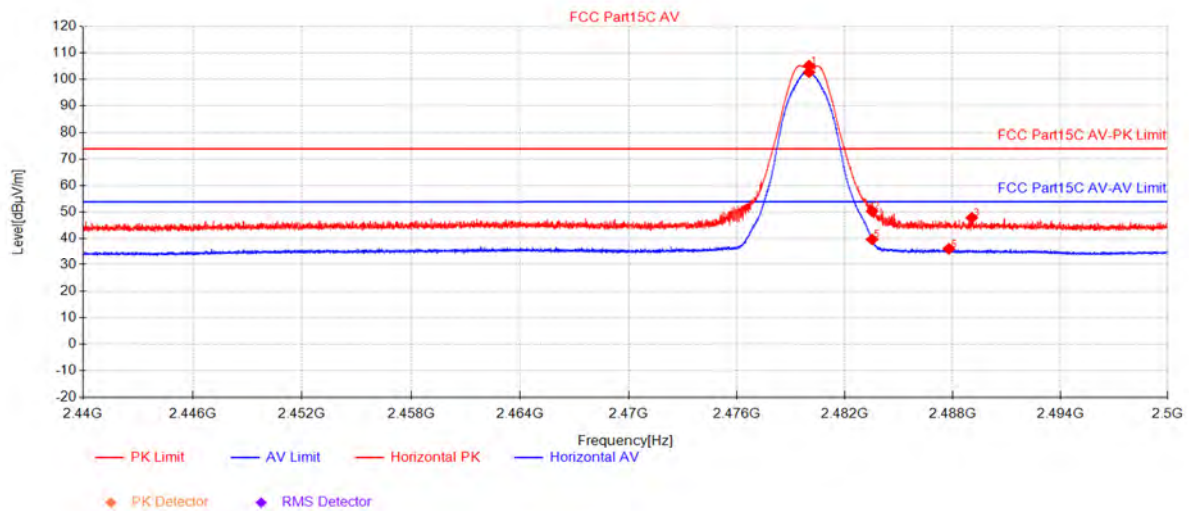
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	101.16	3.88	105.04	-	-	132	19	Horizontal
2	2483.5	46.52	3.91	50.43	74.00	23.57	132	19	Horizontal
3	2489.05	43.99	3.95	47.94	74.00	26.06	132	19	Horizontal
4	2480	98.71	3.88	102.59	-	-	132	19	Horizontal
5	2483.5	35.87	3.91	39.78	54.00	14.22	132	19	Horizontal
6	2487.775	32.31	3.94	36.25	54.00	17.75	132	19	Horizontal



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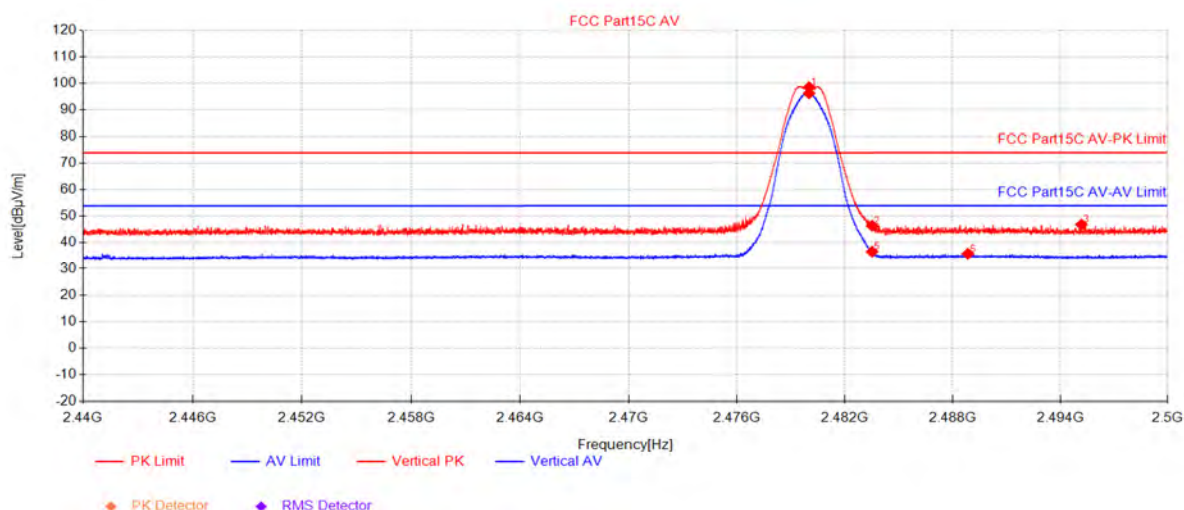
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1	2480	94.57	3.88	98.45	-	-	336	129	Vertical
2	2483.5	42.54	3.91	46.45	74.00	27.55	336	129	Vertical
3	2495.17	42.91	3.99	46.90	74.00	27.10	336	129	Vertical
4	2480	92.25	3.88	96.13	-	-	336	129	Vertical
5	2483.5	32.77	3.91	36.68	54.00	17.32	336	129	Vertical
6	2488.8325	31.92	3.95	35.87	54.00	18.13	336	129	Vertical



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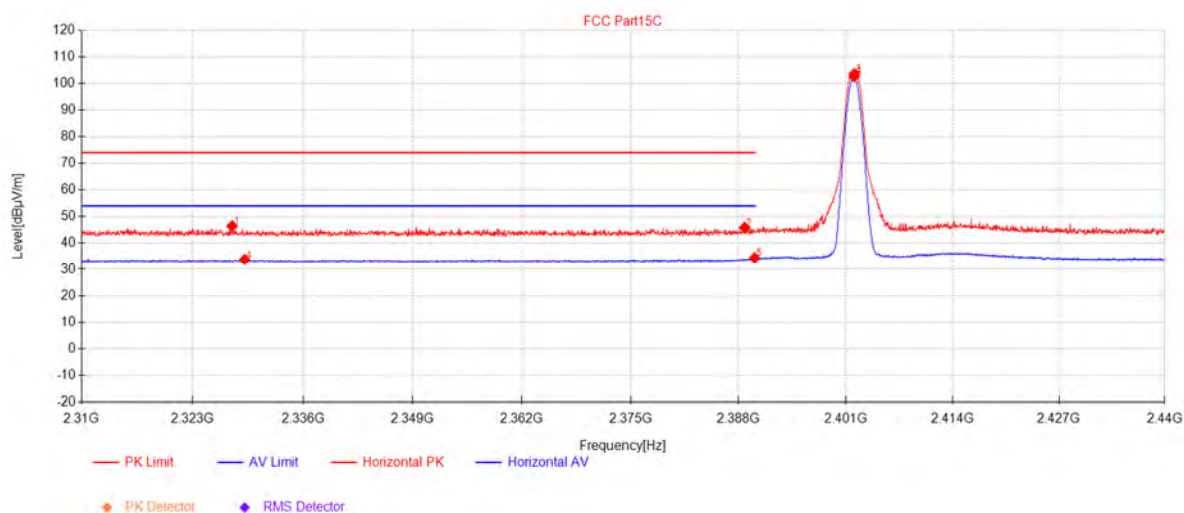
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ANT18

BLE 1M_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2327.6425	43.46	3.00	46.46	74.00	27.54	140	34	Horizontal
2	2388.7196	42.64	3.25	45.89	74.00	28.11	140	34	Horizontal
3	2402	100.20	3.31	103.51	-	-	-	-	Horizontal
4	2329.1164	30.77	3.00	33.77	54.00	20.23	140	34	Horizontal
5	2389.9333	31.16	3.26	34.42	54.00	19.58	140	34	Horizontal
6	2402	99.28	3.31	102.59	-	-	-	-	Horizontal



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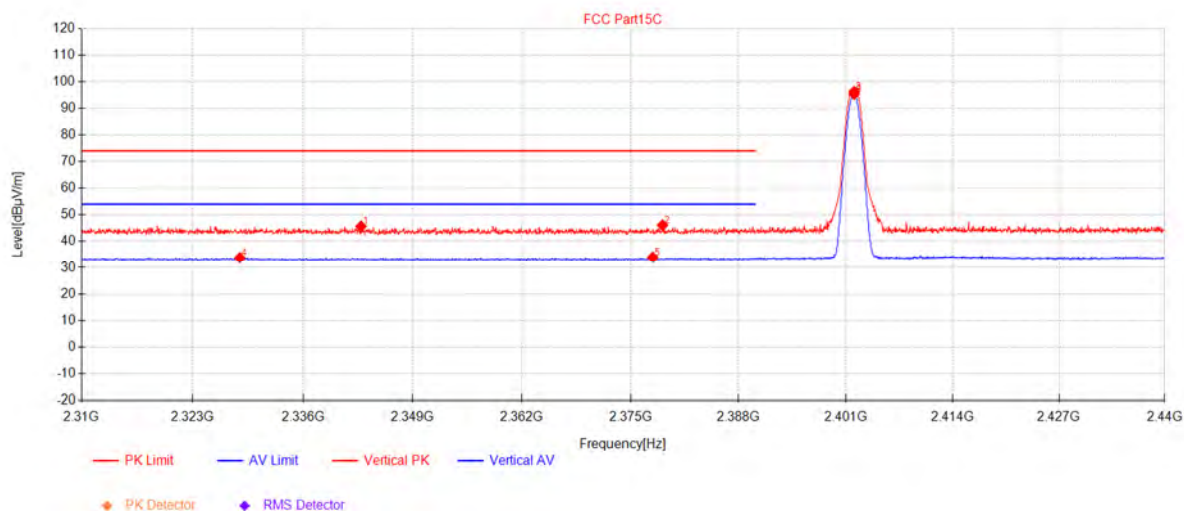
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.8576	42.64	3.06	45.70	74.00	28.30	355	260	Vertical
2	2378.8363	42.93	3.21	46.14	74.00	27.86	355	260	Vertical
3	2402	92.91	3.31	96.22	-	-	-	-	Vertical
4	2328.5529	30.83	3.00	33.83	54.00	20.17	355	260	Vertical
5	2377.6659	30.80	3.21	34.01	54.00	19.99	355	260	Vertical
6	2402	92.03	3.31	95.34	-	-	-	-	Vertical



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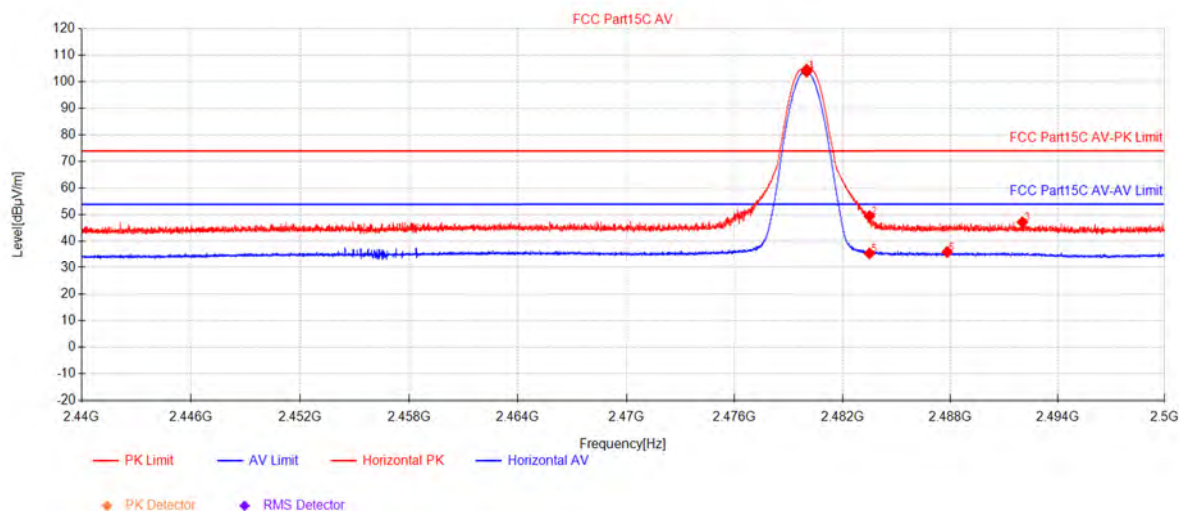
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	100.60	3.88	104.48	-	-	-	-	Horizontal
2	2483.5	45.64	3.91	49.55	74.00	24.45	152	28	Horizontal
3	2492.035	43.29	3.97	47.26	74.00	26.74	152	28	Horizontal
4	2480	99.79	3.88	103.67	-	-	-	-	Horizontal
5	2483.5	31.65	3.91	35.56	54.00	18.44	152	28	Horizontal
6	2487.835	32.16	3.94	36.10	54.00	17.90	152	28	Horizontal



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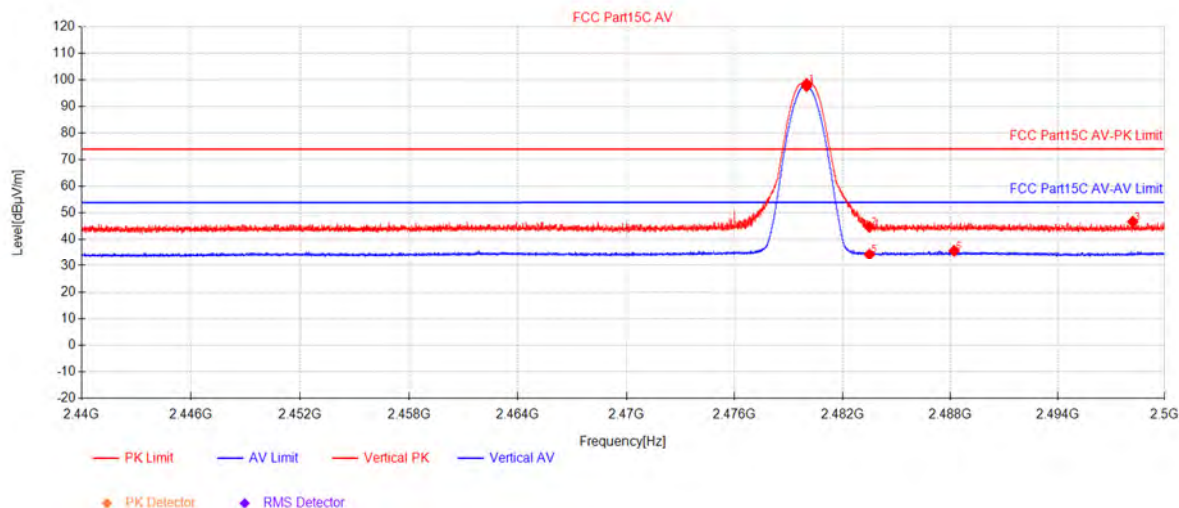
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	94.62	3.88	98.50	-	-	-	-	Vertical
2	2483.5	40.84	3.91	44.75	74.00	29.25	380	122	Vertical
3	2498.215	42.72	4.02	46.74	74.00	27.26	380	122	Vertical
4	2480	93.68	3.88	97.56	-	-	-	-	Vertical
5	2483.5	30.53	3.91	34.44	54.00	19.56	380	122	Vertical
6	2488.2175	31.89	3.94	35.83	54.00	18.17	380	122	Vertical



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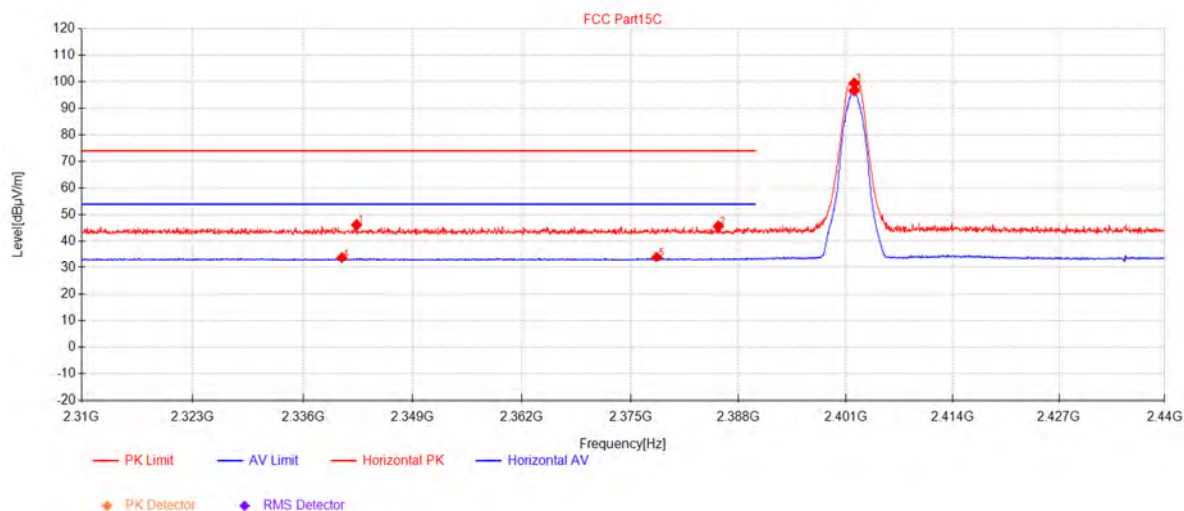
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2342.3374	43.20	3.06	46.26	74.00	27.74	132	26	Horizontal
2	2385.5552	42.48	3.24	45.72	74.00	28.28	132	26	Horizontal
3	2402	96.04	3.31	99.35	-	-	-	-	Horizontal
4	2340.6035	30.72	3.05	33.77	54.00	20.23	132	26	Horizontal
5	2378.1427	30.81	3.21	34.02	54.00	19.98	132	26	Horizontal
6	2402	93.35	3.31	96.66	-	-	-	-	Horizontal



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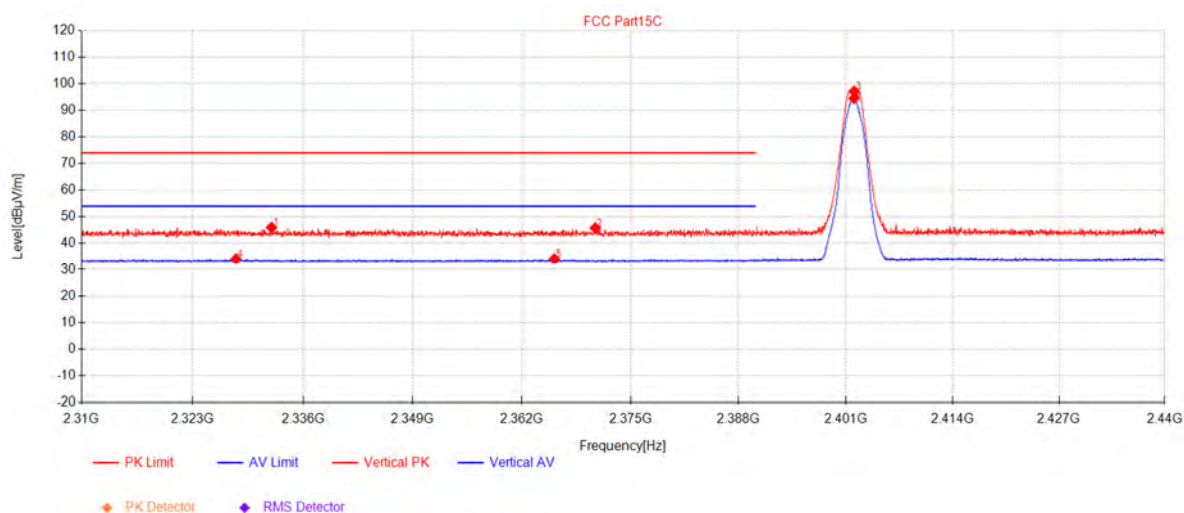
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Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2332.295	43.01	3.02	46.03	74.00	27.97	336	258	Vertical
2	2370.775	42.64	3.18	45.82	74.00	28.18	336	258	Vertical
3	2402	93.77	3.31	97.08	-	-	-	-	Vertical
4	2328.1025	31.15	3.00	34.15	54.00	19.85	336	258	Vertical
5	2365.8675	31.00	3.16	34.16	54.00	19.84	336	258	Vertical
6	2402	91.23	3.31	94.54	-	-	-	-	Vertical



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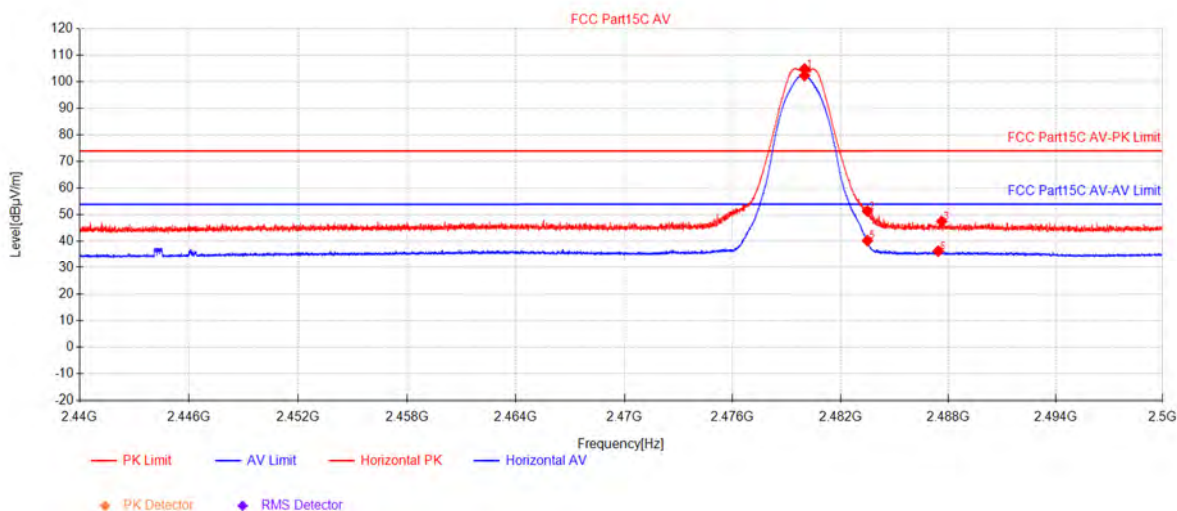
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Data List

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1	2480	100.83	3.88	104.71	-	-	-	-	Horizontal
2	2483.5	47.55	3.91	51.46	74.00	22.54	138	29	Horizontal
3	2487.64	43.63	3.94	47.57	74.00	26.43	138	29	Horizontal
4	2480	98.42	3.88	102.30	-	-	-	-	Horizontal
5	2483.5	36.44	3.91	40.35	54.00	13.65	138	29	Horizontal
6	2487.445	32.49	3.94	36.43	54.00	17.57	138	29	Horizontal



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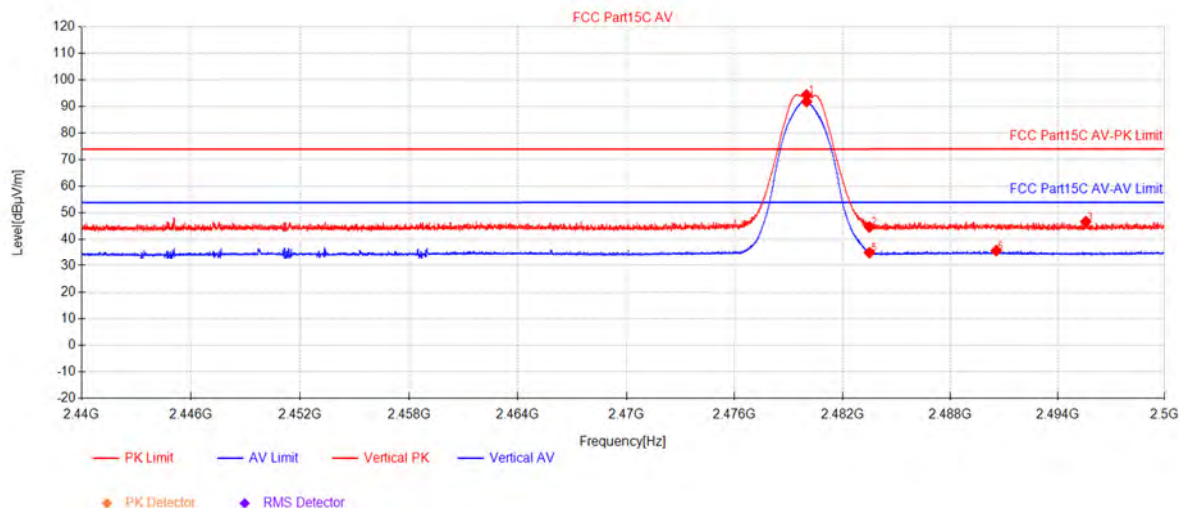
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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	90.42	3.88	94.30	-	-	-	-	Vertical
2	2483.5	40.87	3.91	44.78	74.00	29.22	333	259	Vertical
3	2495.5825	42.76	4.00	46.76	74.00	27.24	333	259	Vertical
4	2480	87.94	3.88	91.82	-	-	-	-	Vertical
5	2483.5	31.25	3.91	35.16	54.00	18.84	333	259	Vertical
6	2490.5725	31.93	3.96	35.89	54.00	18.11	333	259	Vertical

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