

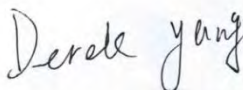
# FCC TEST REPORT

**Application No.:** ZR/2021/30022  
**Applicant:** HMD Global Oy  
**Address of Applicant:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**Manufacturer:** HMD Global Oy  
**Address of Manufacturer:** Bertel Jungin aukio 9, 02600 Espoo, Finland  
**EUT Description:** Smart Phone  
**Model No.:** TA-1371  
**Trade Mark:** NOKIA  
**FCC ID:** 2AJOTTA-1371  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/4/2  
**Date of Test:** 2021/4/2 to 2021/5/14  
**Date of Issue:** 2021/5/14

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

Authorized Signature:



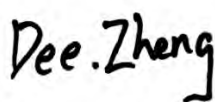

Derek Yang  
 Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-05-14		Original

Authorized for issue by:		
Prepared By		 <hr/> (Dee Zheng) / Engineer
Checked By		 <hr/> (Jim Huang) / Reviewer



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## 2 Test Summary

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

Remark : All test were performed by Lab A and B.

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

Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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### 3 General Information

#### 3.1 Details of Client

Applicant:	HMD Global Oy
Address of Applicant	Bertel Jungin aukio 9, 02600 Espoo, Finland
Manufacturer:	HMD Global Oy
Address of Manufacturer	Bertel Jungin aukio 9, 02600 Espoo, Finland

#### 3.2 Test Location

##### Lab A:

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Test engineer:	Dee Zheng, Swing Hu, Habit Zeng

##### Lab B:

Company:	SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.
Address:	1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China
Post code:	710086
Test engineer:	Leah Chen, Ken Liu, Andy Yao



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### 3.3 Test Facility

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

**Lab A:**

• **A2LA (Certificate No. 3816.01)**

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

• **VCCI**

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

• **FCC –Designation Number: CN1178**

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

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

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

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

CAB identifier: CN0006.

IC#: 4620C.

**Lab B:**

**A2LA (Certificate No. 4854.01)**

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

**FCC-Designation Number: CN1271.**



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### 3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	TA-1371
Trade Mark:	NOKIA
Hardware Version:	V1.00
Software Version:	00WW_1_01A
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$ , where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.1
Modulation Type:	GFSK
Number of Channel:	40
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain:	-0.5dBi(ANT4)

**Operation Frequency of each channel**

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz



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**Remark:**

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

Channel	Frequency
The Lowest channel(CH0)	2402MHz
The Middle channel(CH19)	2440MHz
The Highest channel(CH39)	2480MHz

### 3.5 Test Environment

Operating Environment:	
Temperature:	25.0 °C
Humidity:	50 % RH
Atmospheric Pressure:	101.30 KPa

### 3.6 Description of Support Units

The EUT has been tested independent unit.



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	47 CFR Part 15C Section 15.203 /247(c)
<p>15.203 requirement:  An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement:  The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -0.5dBi.</p>	



## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<ol style="list-style-type: none"> <li>1) The mains terminal disturbance voltage test was conducted in a shielded room.</li> <li>2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</li> <li>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.</li> <li>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.</li> <li>5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</li> </ol>		



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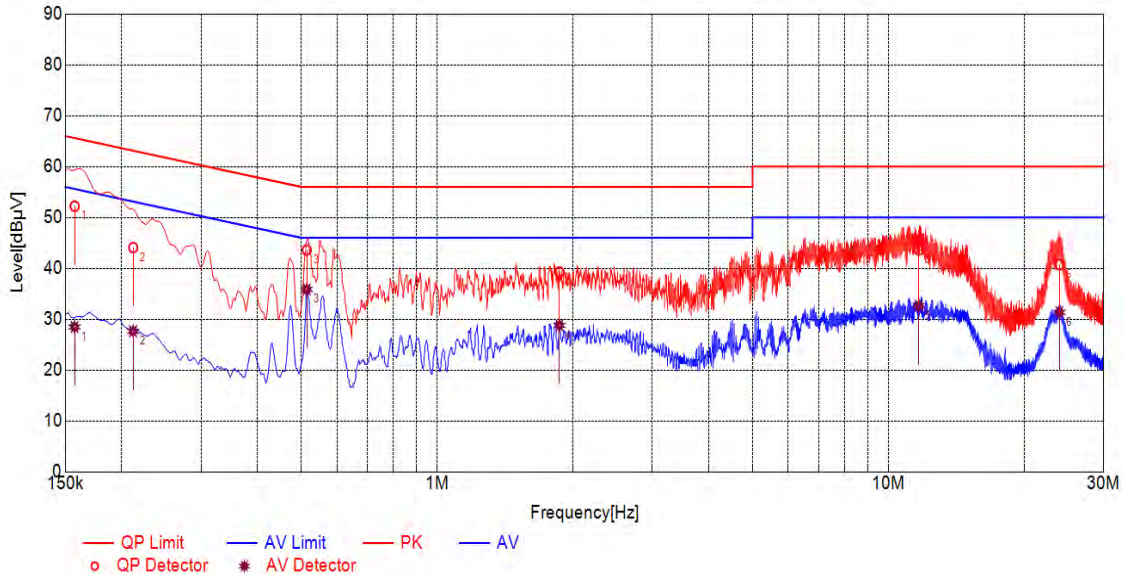
<p>Test Setup:</p>	
<p>Test Mode:</p>	<p>Transmitting with GFSK modulation. Charge +Transmitting mode.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



**Measurement Data**

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

**Live Line:**



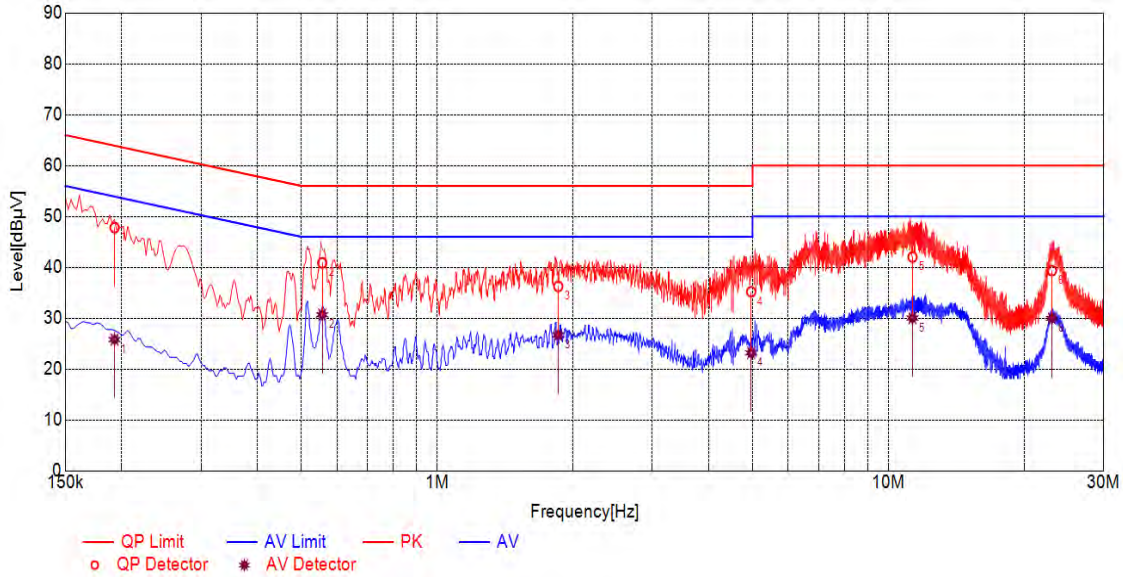
**Test Graph**

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]
1	0.1573	10.10	52.21	65.61	13.40	28.48	55.61	27.13
2	0.2121	10.10	44.07	63.12	19.05	27.61	53.12	25.51
3	0.5143	10.10	43.60	56.00	12.40	35.86	46.00	10.14
4	1.8667	10.10	39.24	56.00	16.76	28.79	46.00	17.21
5	11.6875	10.10	43.61	60.00	16.39	32.66	50.00	17.34
6	23.9382	10.11	40.75	60.00	19.25	31.36	50.00	18.64



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Neutral Line:



### Test Graph

Final Data List								
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.1929	10.10	47.80	63.91	16.11	25.79	53.91	28.12
2	0.5567	10.10	40.88	56.00	15.12	30.67	46.00	15.33
3	1.8553	10.10	36.25	56.00	19.75	26.70	46.00	19.30
4	4.9652	10.10	35.19	56.00	20.81	23.18	46.00	22.82
5	11.3086	10.10	42.03	60.00	17.97	30.03	50.00	19.97
6	23.0368	10.11	39.38	60.00	20.62	29.95	50.00	20.05

Remark:

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



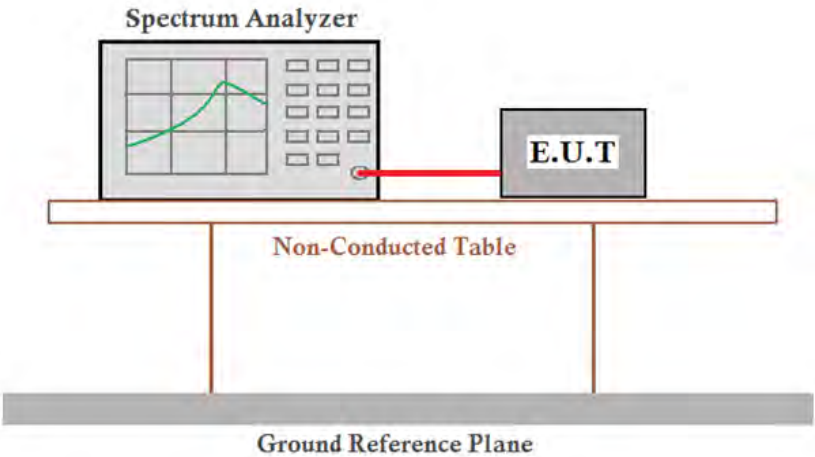
### 4.3 Duty Cycle

The detailed test data see: **Appendix**



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#### 4.4 Conducted Output Power

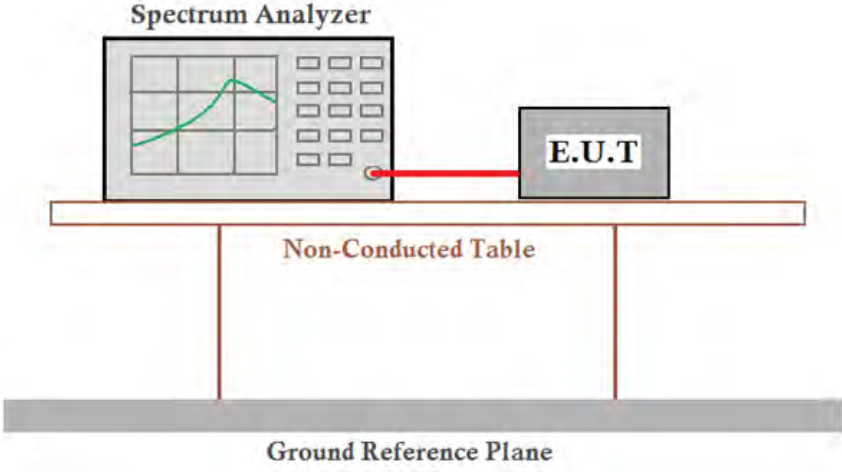
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.1
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass

The detailed test data see: **Appendix**



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### 4.5 DTS (6 dB) Bandwidth

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

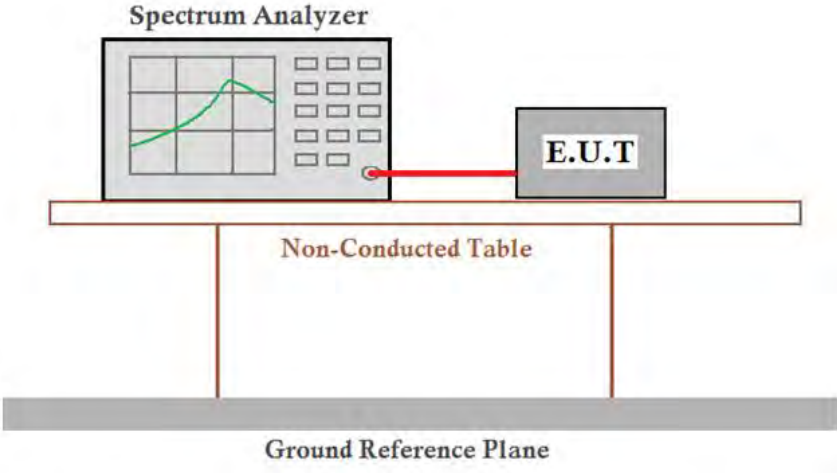
The detailed test data see: **Appendix**



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### 4.6 Power Spectral Density

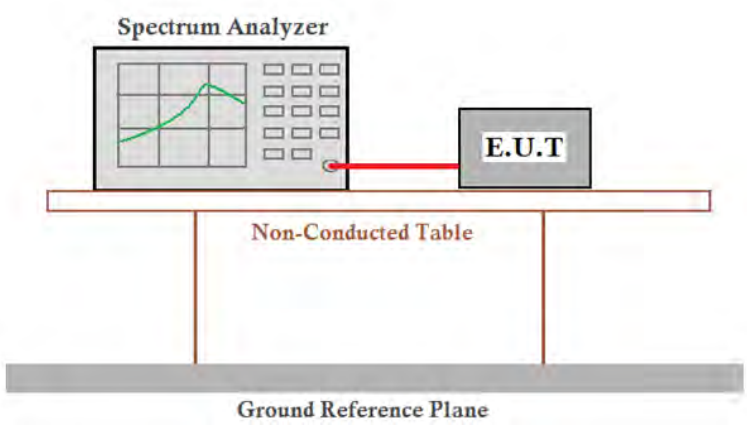
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

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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### 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)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	10Hz	Average	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Remark: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				



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<p><b>Test Setup:</b></p>	
<p>Figure 1. Below 30MHz</p>	<p>Figure 2. 30MHz to 1GHz</p>
<p>Figure 3. Above 1 GHz</p>	
<p><b>Test Procedure:</b></p>	<ol style="list-style-type: none"> <li>For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation</li> <li>The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>Use the following spectrum analyzer settings:             <ol style="list-style-type: none"> <li>Span shall wide enough to fully capture the emission being measured;</li> <li>Set RBW=100 kHz for <math>f &lt; 1</math> GHz, RBW=1MHz for <math>f &gt; 1</math>GHz ; VBW <math>\geq</math> RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak</li> <li>For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds</li> </ol> </li> </ol>



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	<p>On time = <math>N_1 * L_1 + N_2 * L_2 + \dots + N_{n-1} * L_{n-1} + N_n * L_n</math>            Where <math>N_1</math> is number of type 1 pulses, <math>L_1</math> is length of type 1 pulses, etc.            Average Emission Level = Peak Emission Level + <math>20 * \log(\text{Duty cycle})</math></p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 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:			

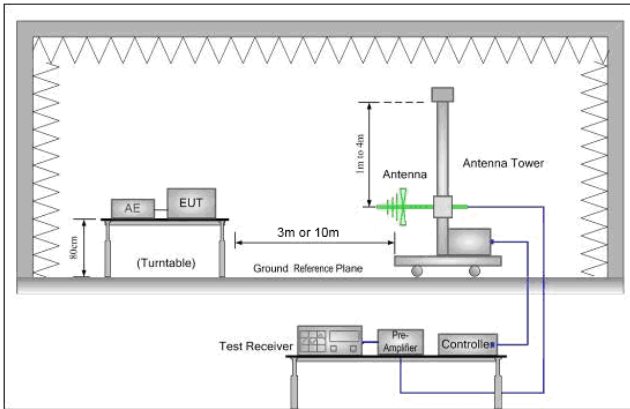


Figure 1. 30MHz to 1GHz

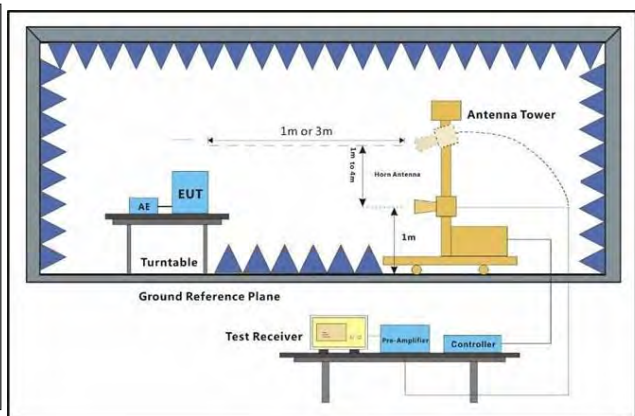


Figure 2. Above 1 GHz



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Test Procedure:	<ul style="list-style-type: none"> <li>a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</li> <li>c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</li> <li>d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</li> <li>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</li> <li>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</li> <li>h. Test the EUT in the lowest channel , the Highest channel</li> <li>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</li> <li>j. Repeat above procedures until all frequencies measured was complete.</li> </ul>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

The detailed test data see: **Appendix**



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

### Lab A:

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

### Lab B:

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



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## 6 Equipment List

RF conducted					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2020/4/16	2021/4/15
				2021/4/14	2022/4/13
DC Power Supply	Rohde & Schwarz	HMP2020	W009-08	2020/7/15	2021/7/15
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2020/7/14	2021/7/13
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2020/4/21	2021/4/20
				2021/4/14	2022/4/13

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



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2019-09-11	2022-09-10
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2021-04-01	2022-03-31
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2020-09-11	2021-09-10
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2019-10-13	2021-10-12
Receiving antenna (1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2019-10-13	2021-10-12
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2019-10-13	2021-10-12
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP00903040	XAW01-41-01	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2020-10-26	2021-10-25
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2020-10-27	2021-10-26
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2020-10-26	2021-10-25
Temperature and humidity meter	MingGao	TH101B	XAW01-01-01	2020-11-06	2021-11-05
Measurement Software	Tonscend	TS+ RSE V3.0.0.2	XAW02-05-01	NCR	NCR



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## 7 Photographs - EUT Constructional Details

Refer to Appendix A Setup Photos.



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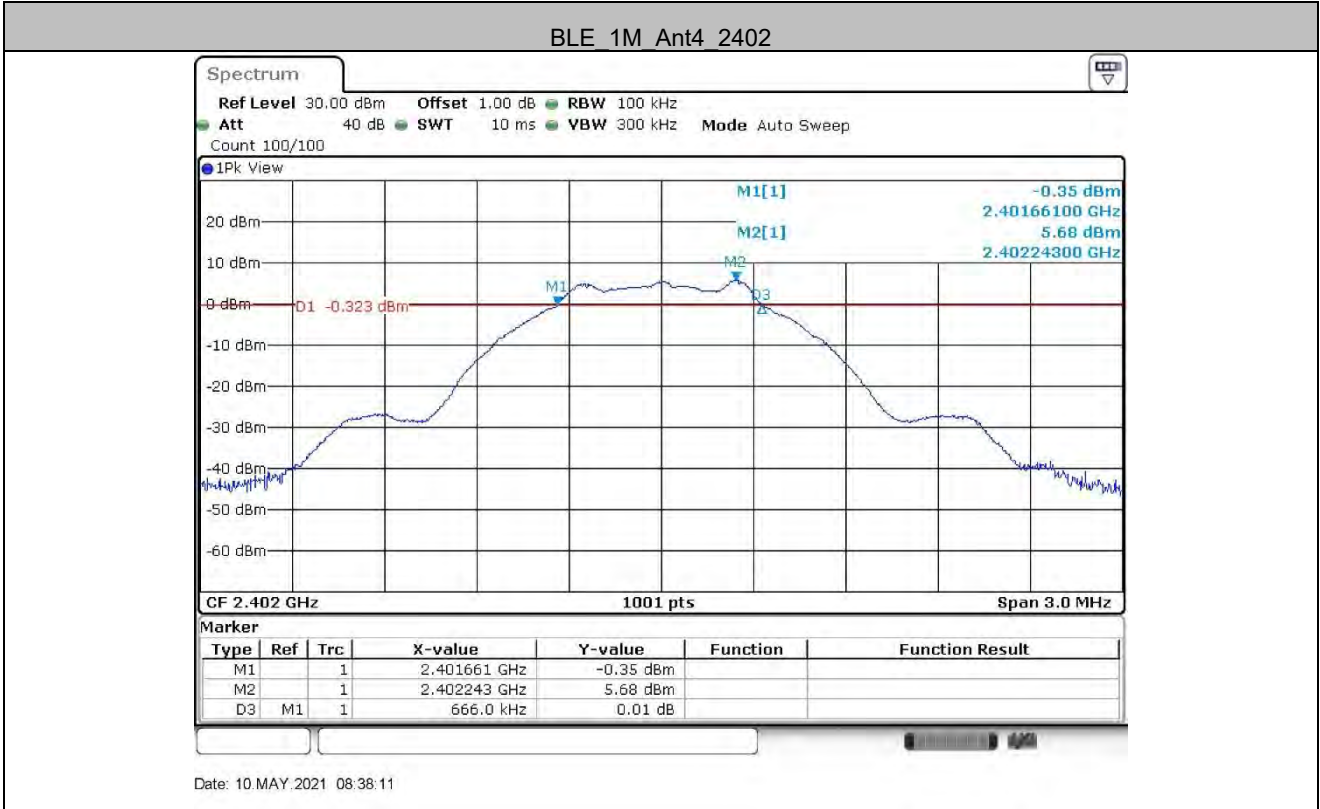
**DTS Bandwidth  
 Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant4	2402	0.666	2401.661	2402.327	0.5	PASS
		2440	0.669	2439.658	2440.327	0.5	PASS
		2480	0.669	2479.658	2480.327	0.5	PASS
BLE_2M	Ant4	2402	1.155	2401.425	2402.580	0.5	PASS
		2440	1.165	2439.415	2440.580	0.5	PASS
		2480	1.160	2479.415	2480.575	0.5	PASS



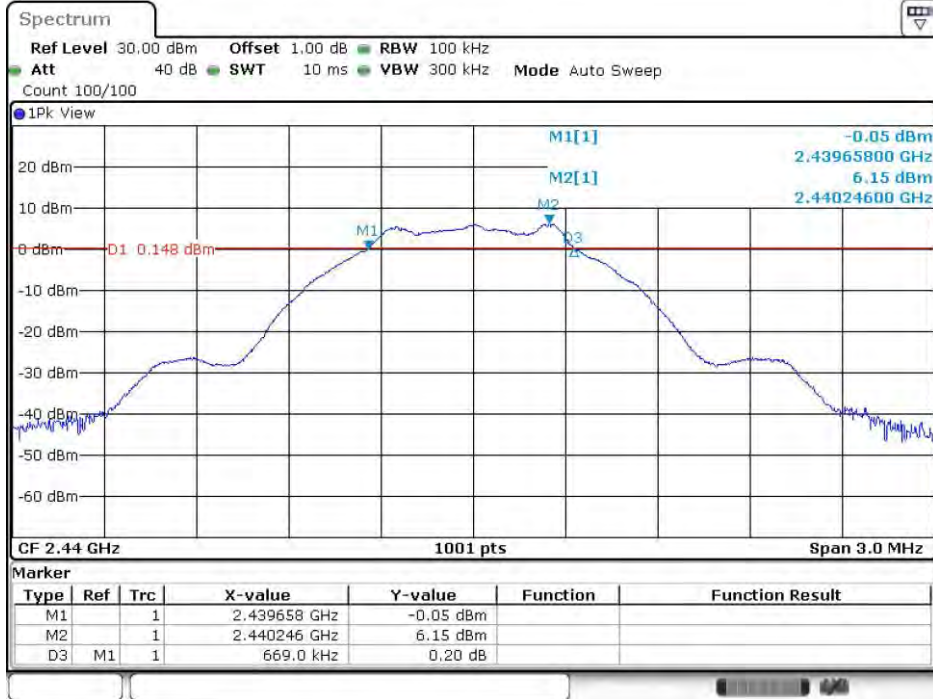
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### Test Graphs



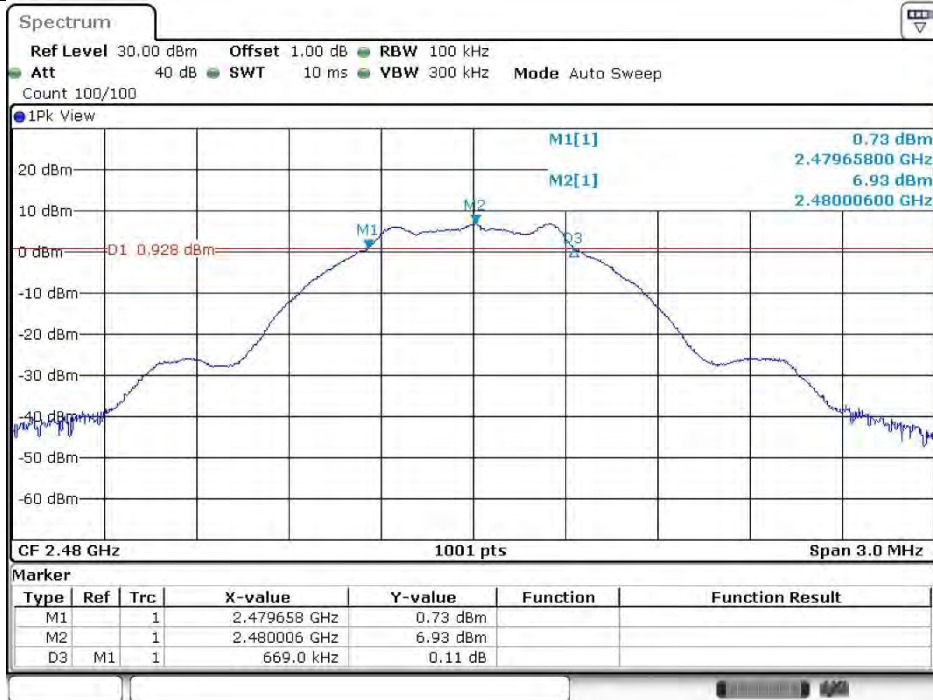
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### BLE\_1M\_Ant4\_2440



Date: 10.MAY.2021 08:39:37

### BLE\_1M\_Ant4\_2480



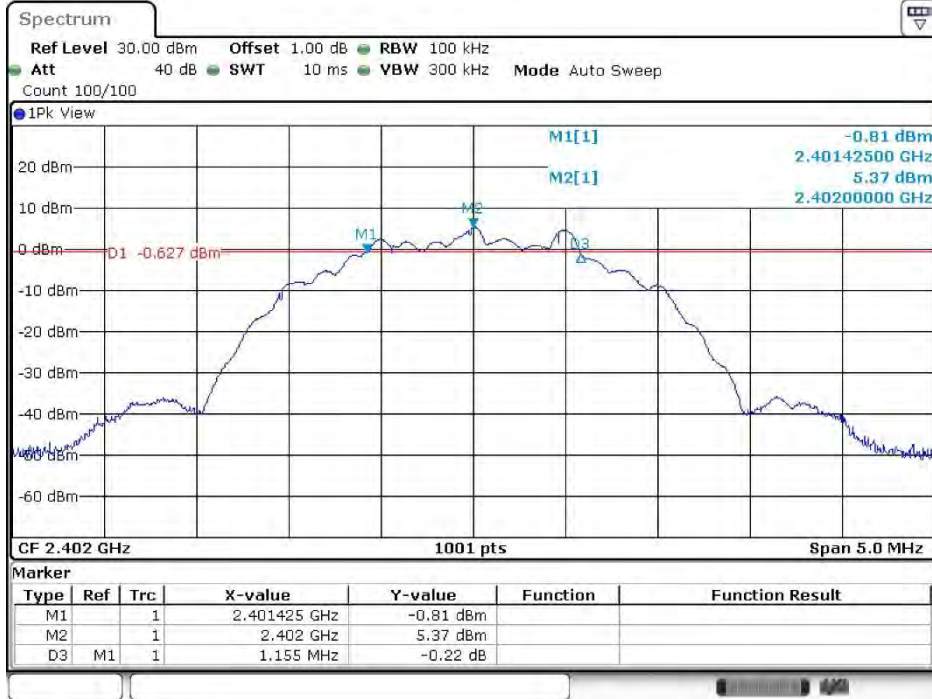
Date: 10.MAY.2021 08:40:58



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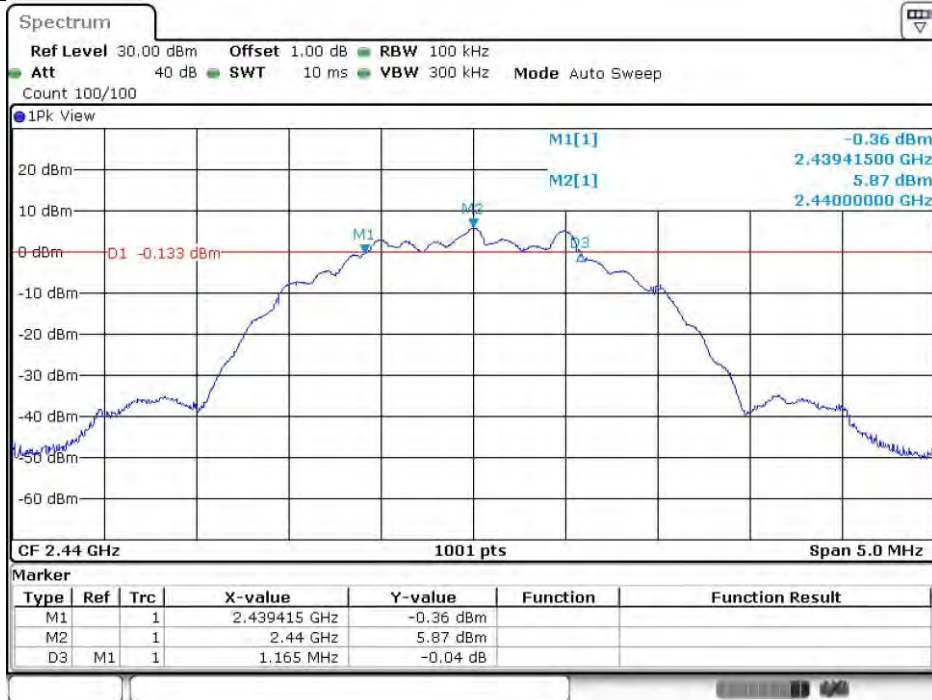


### BLE\_2M\_Ant4\_2402



Date: 10.MAY.2021 08:42:51

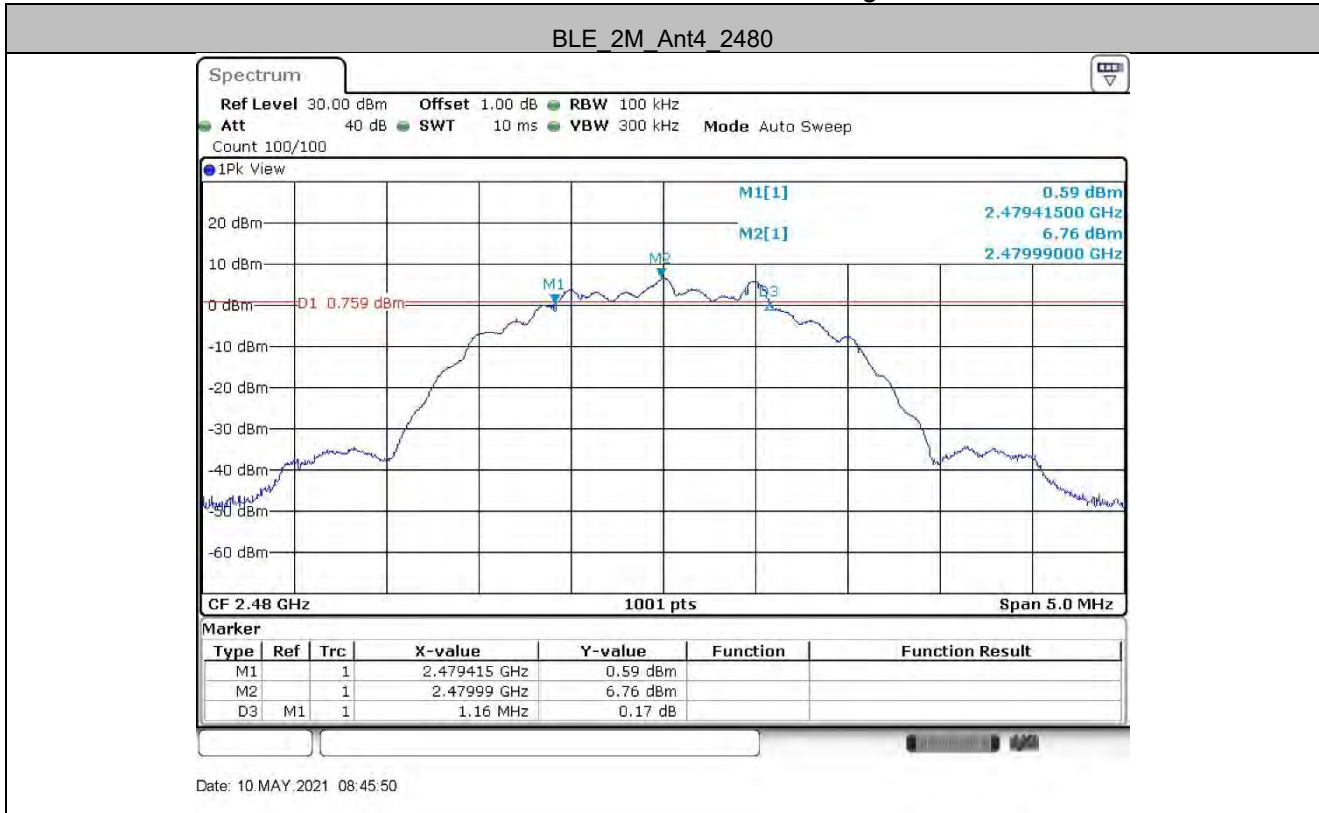
### BLE\_2M\_Ant4\_2440



Date: 10.MAY.2021 08:44:31



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**Occupied Channel Bandwidth**  
**Test Result**

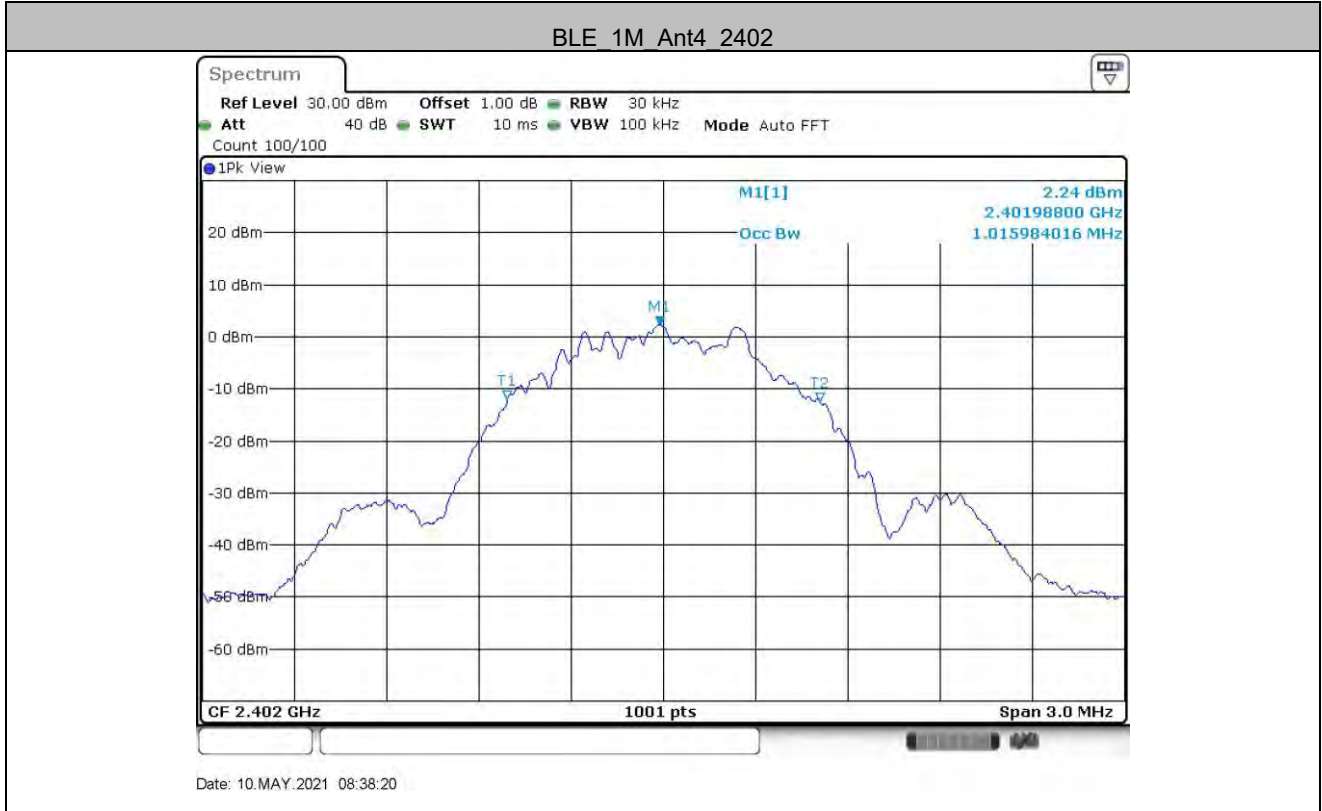
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant4	2402	1.016	2401.494	2402.509	---	PASS
		2440	1.013	2439.494	2440.506	---	PASS
		2480	1.016	2479.491	2480.506	---	PASS
BLE_2M	Ant4	2402	2.018	2400.991	2403.009	---	PASS
		2440	2.013	2438.991	2441.004	---	PASS
		2480	2.018	2478.986	2481.004	---	PASS



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### Test Graphs

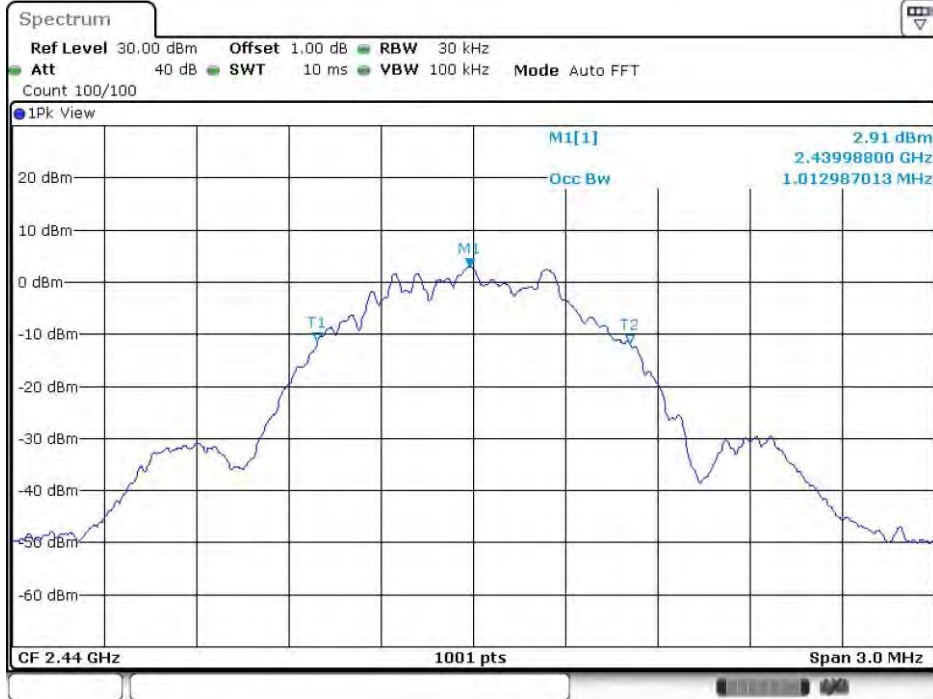


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### BLE\_1M\_Ant4\_2440



Date: 10.MAY.2021 08:39:47

### BLE\_1M\_Ant4\_2480



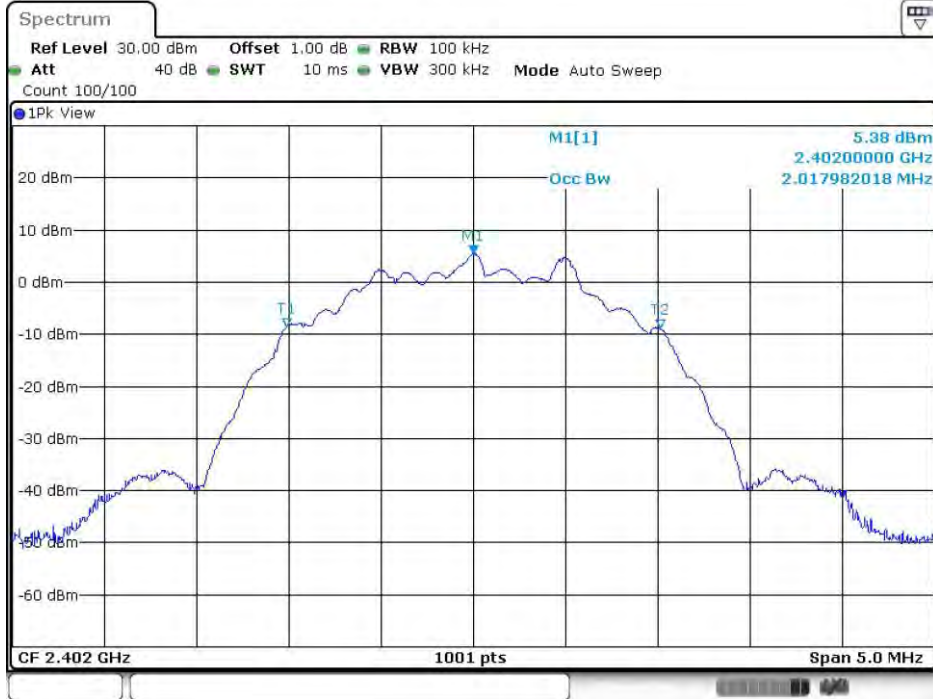
Date: 10.MAY.2021 08:41:08



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### BLE\_2M\_Ant4\_2402



Date: 10.MAY.2021 08:43:01

### BLE\_2M\_Ant4\_2440

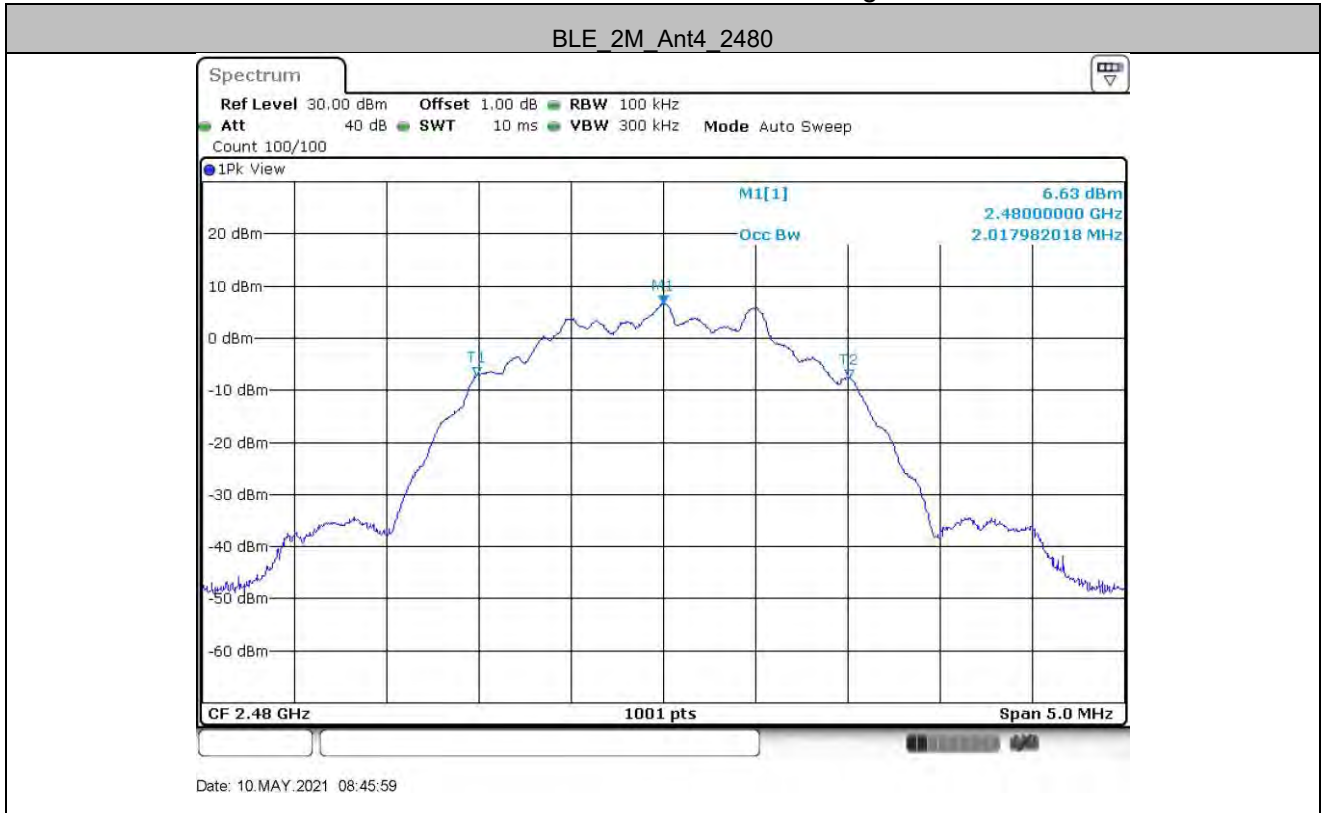


Date: 10.MAY.2021 08:44:41



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**Maximum conducted output power**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant4	2402	6.14	<=30	PASS
		2440	6.77	<=30	PASS
		2480	7.51	<=30	PASS
BLE_2M	Ant4	2402	6.24	<=30	PASS
		2440	6.84	<=30	PASS
		2480	7.62	<=30	PASS



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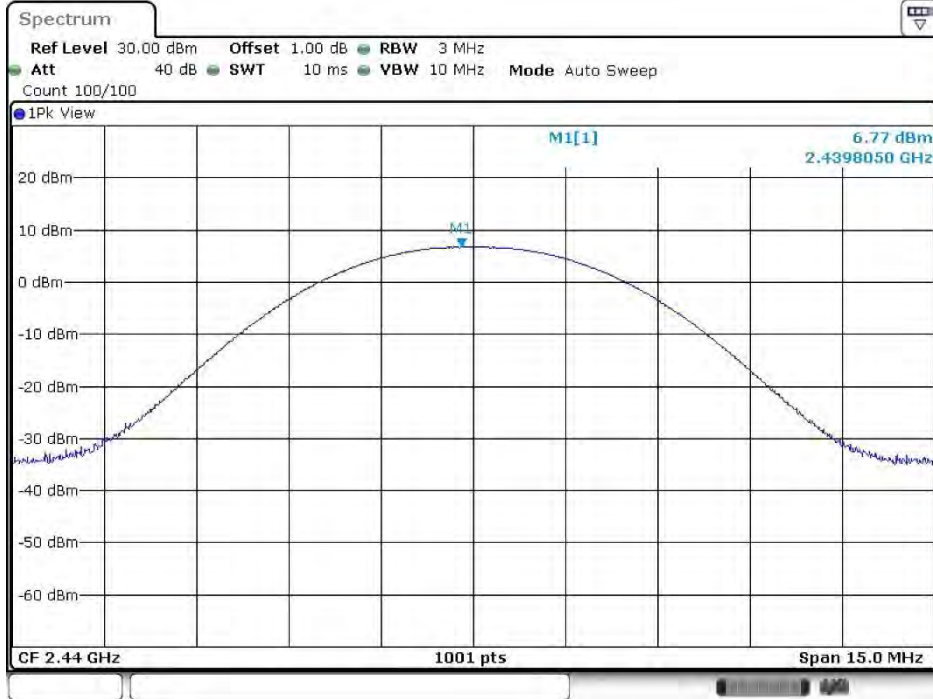
### Test Graphs



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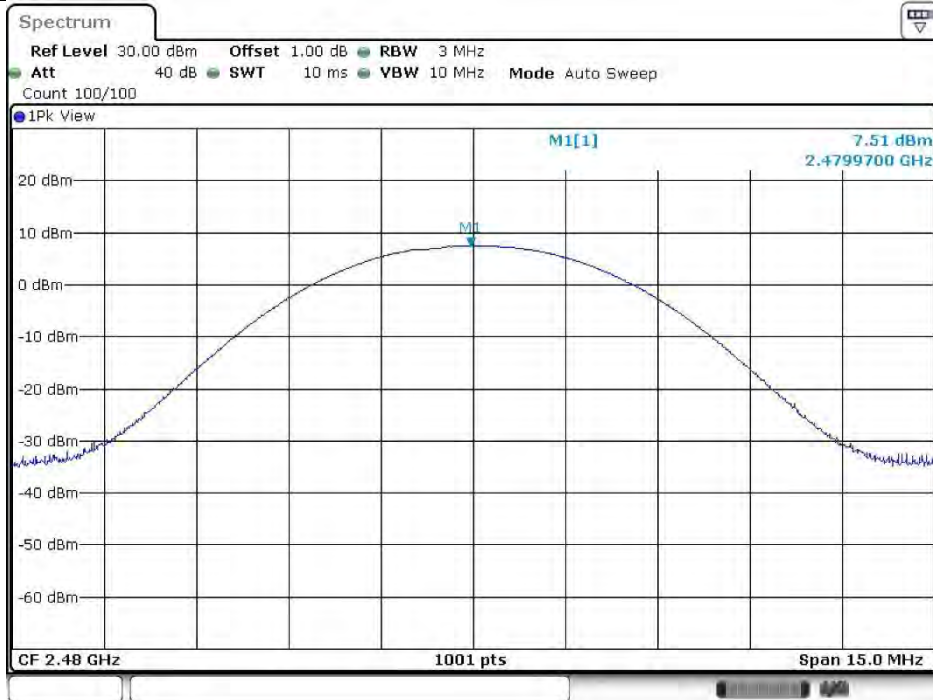
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### BLE\_1M\_Ant4\_2440



Date: 10 MAY.2021 08:39:52

### BLE\_1M\_Ant4\_2480



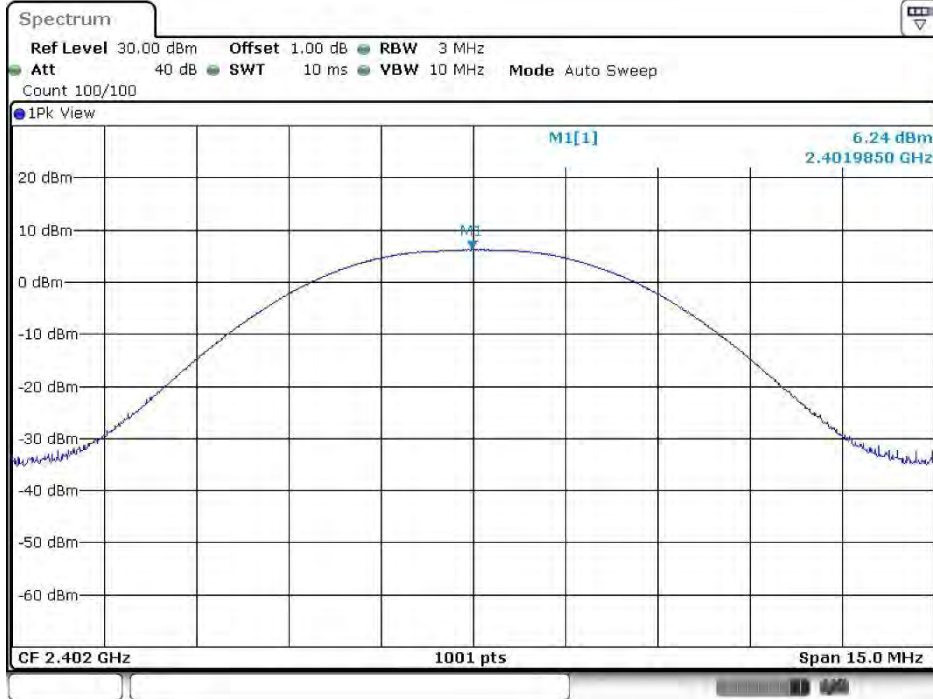
Date: 10 MAY.2021 08:41:13



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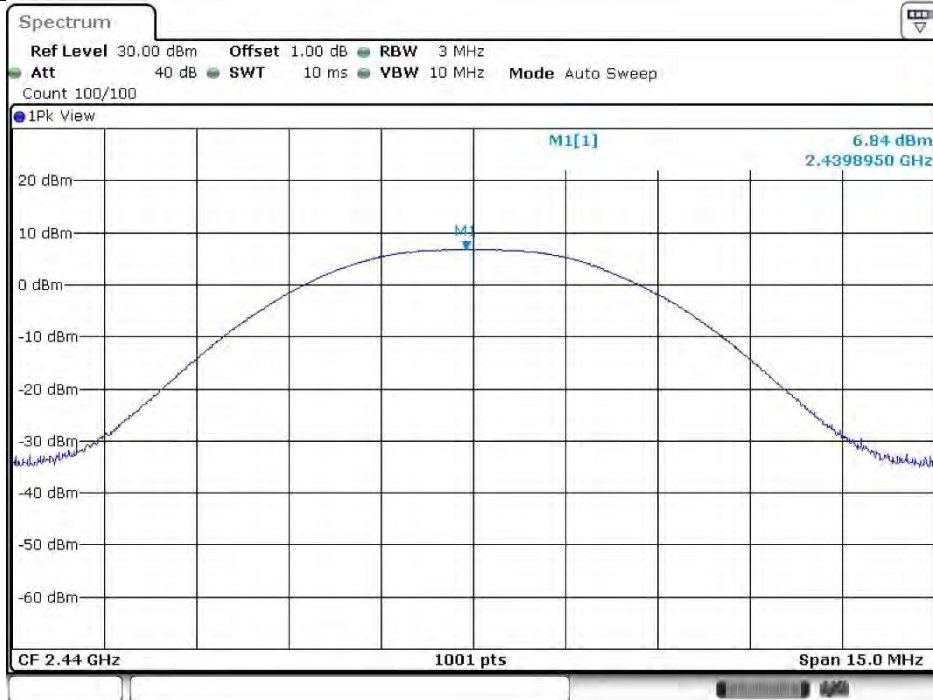
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### BLE\_2M\_Ant4\_2402



Date: 10 MAY.2021 08:43:06

### BLE\_2M\_Ant4\_2440



Date: 10 MAY.2021 08:44:46



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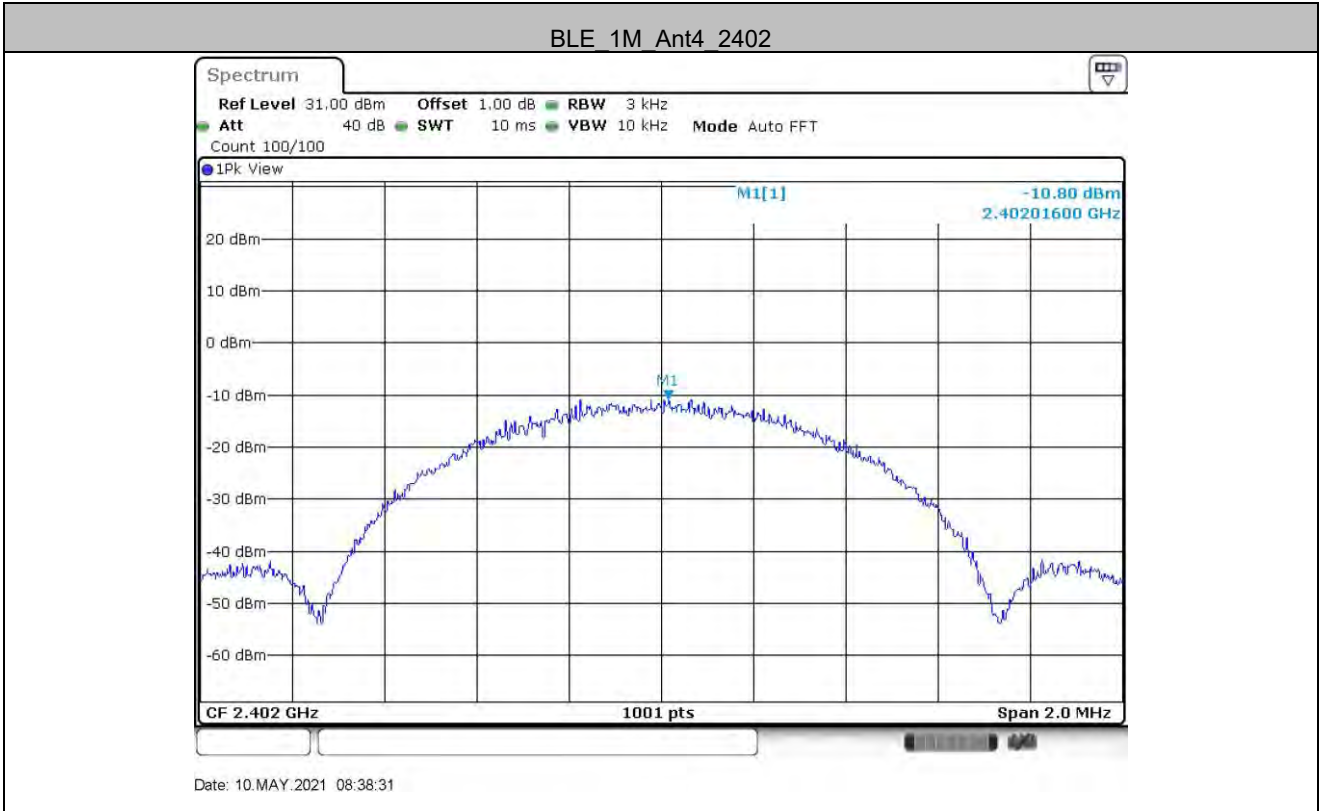
**Maximum power spectral density**  
**Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant4	2402	-10.8	<=8	PASS
		2440	-10.14	<=8	PASS
		2480	-9.4	<=8	PASS
BLE_2M	Ant4	2402	-13.1	<=8	PASS
		2440	-12.41	<=8	PASS
		2480	-11.73	<=8	PASS



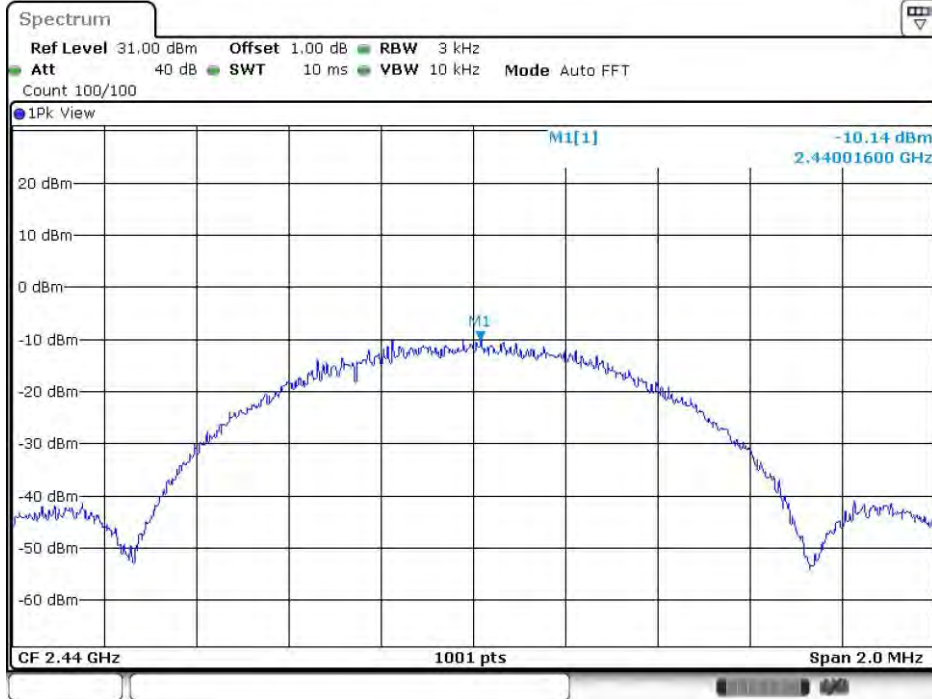
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### Test Graphs



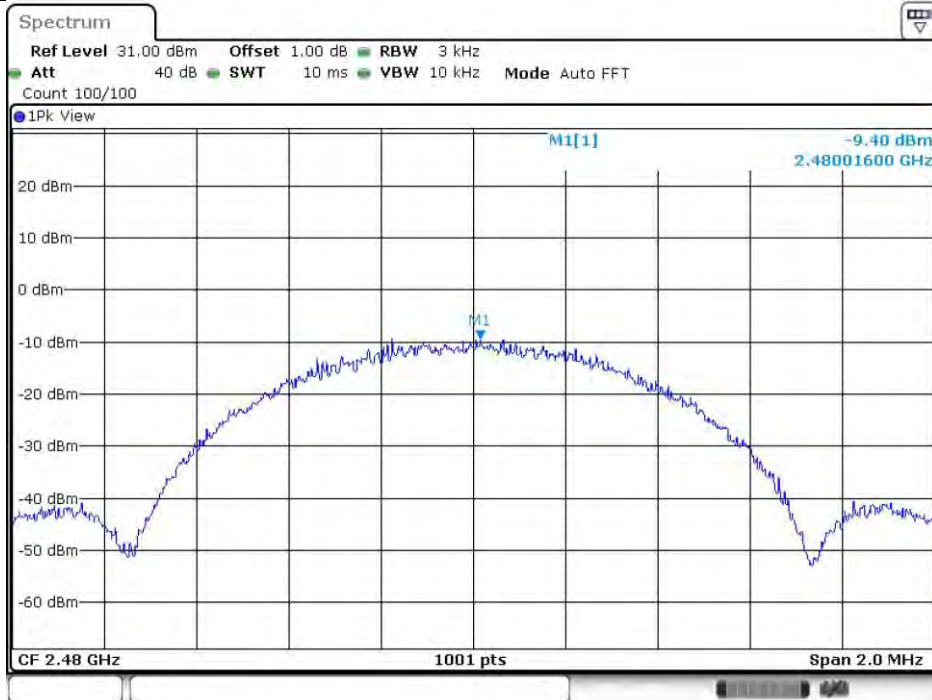
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### BLE\_1M\_Ant4\_2440



Date: 10.MAY.2021 08:39:57

### BLE\_1M\_Ant4\_2480



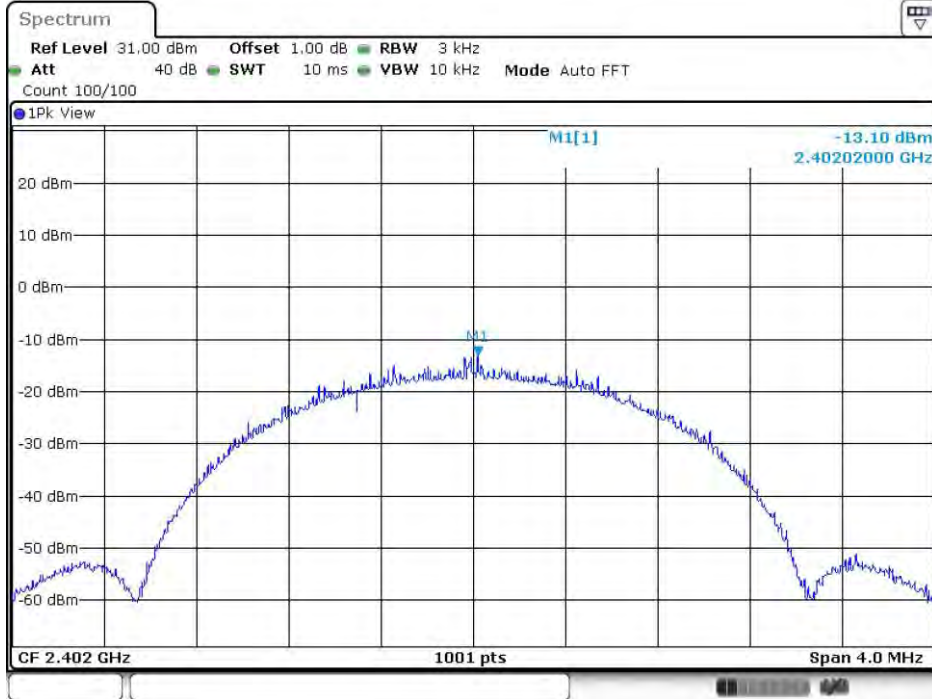
Date: 10.MAY.2021 08:41:18



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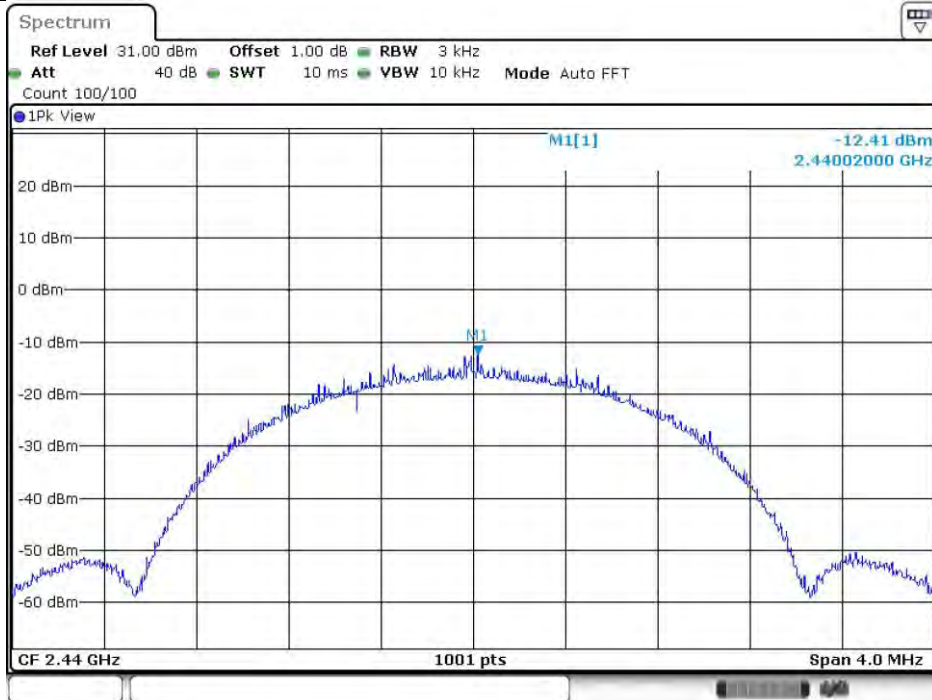
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### BLE\_2M\_Ant4\_2402



Date: 10.MAY.2021 08:43:11

### BLE\_2M\_Ant4\_2440



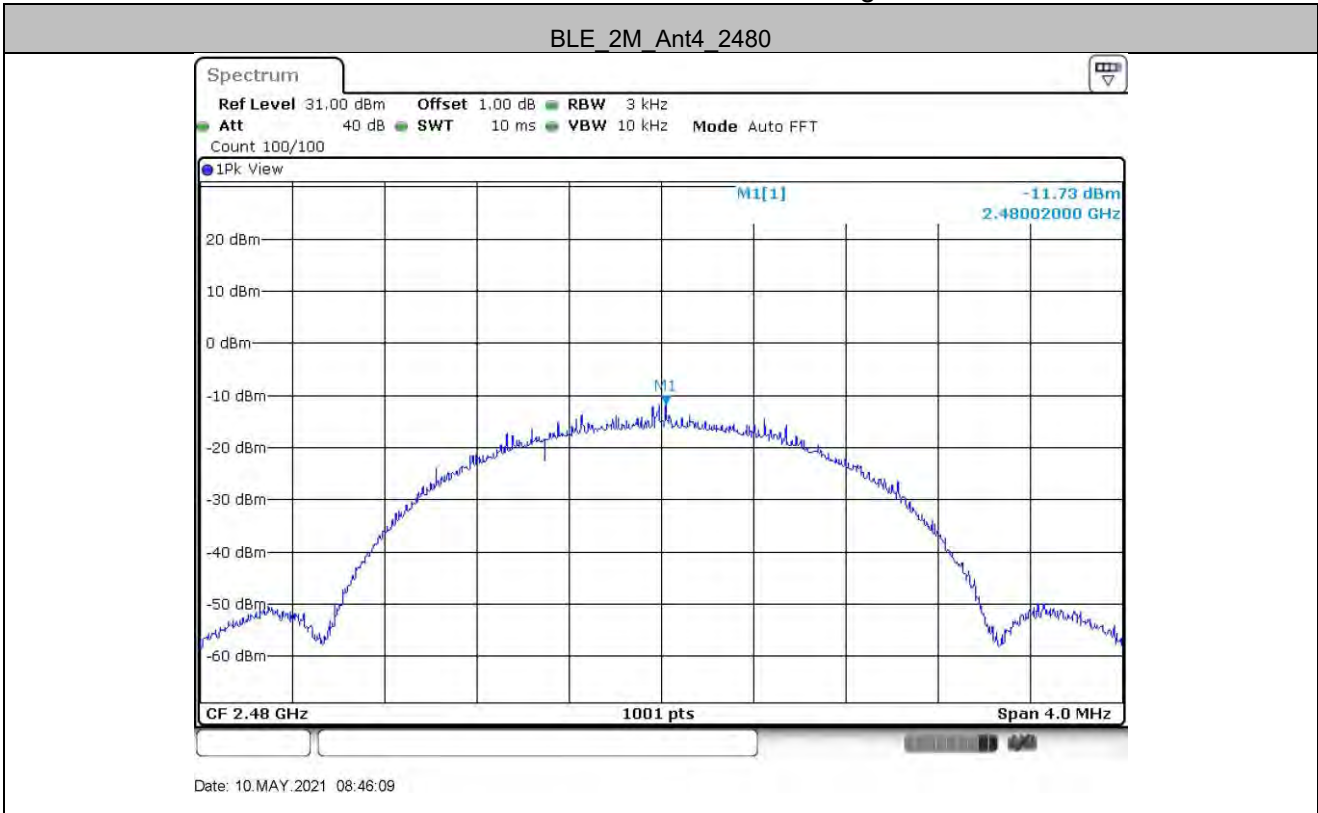
Date: 10.MAY.2021 08:44:51



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## Band edge measurements

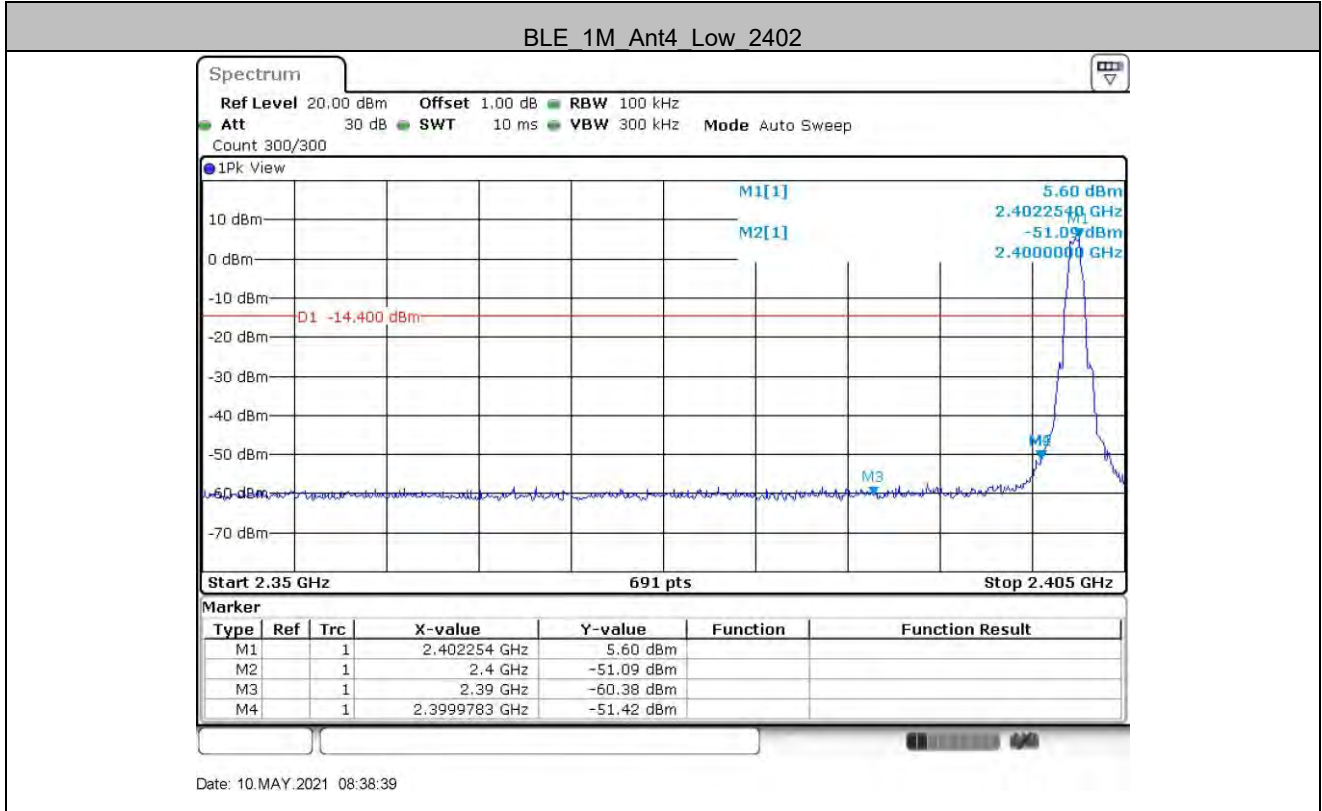
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant4	Low	2402	5.60	-51.42	<=-14.4	PASS
		High	2480	6.83	-56.78	<=-13.17	PASS
BLE_2M	Ant4	Low	2402	5.39	-42.74	<=-14.61	PASS
		High	2480	6.68	-56.16	<=-13.32	PASS



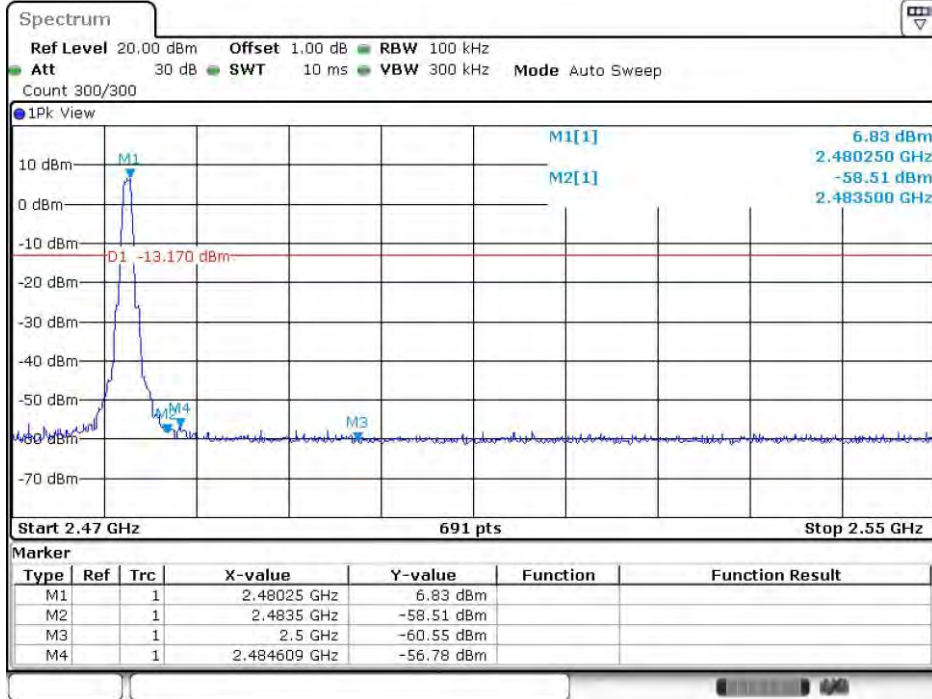
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### Test Graphs



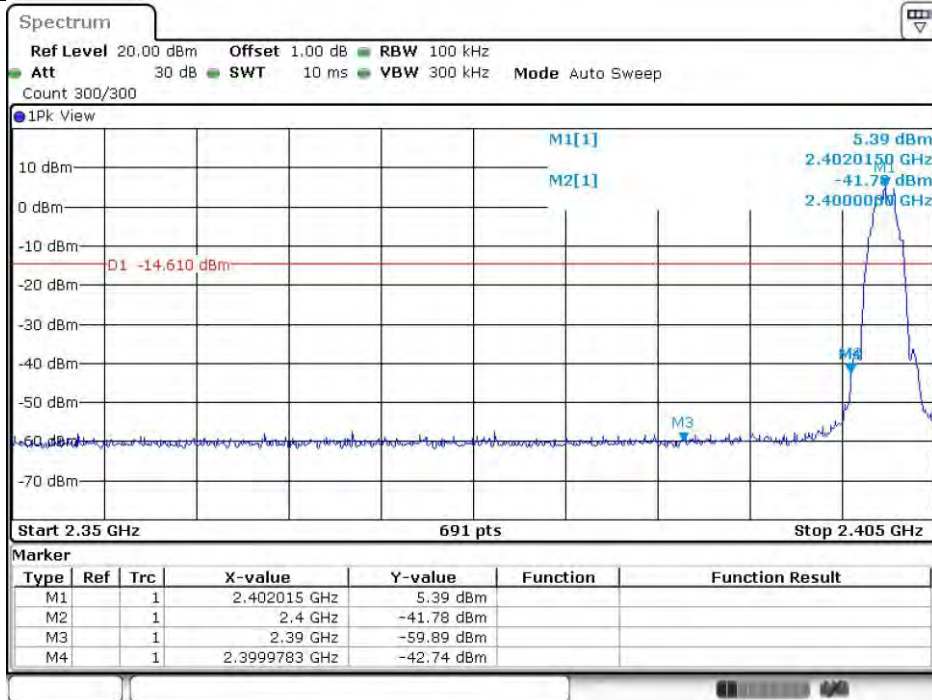
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### BLE 1M Ant4 High 2480



Date: 10.MAY.2021 08:41:26

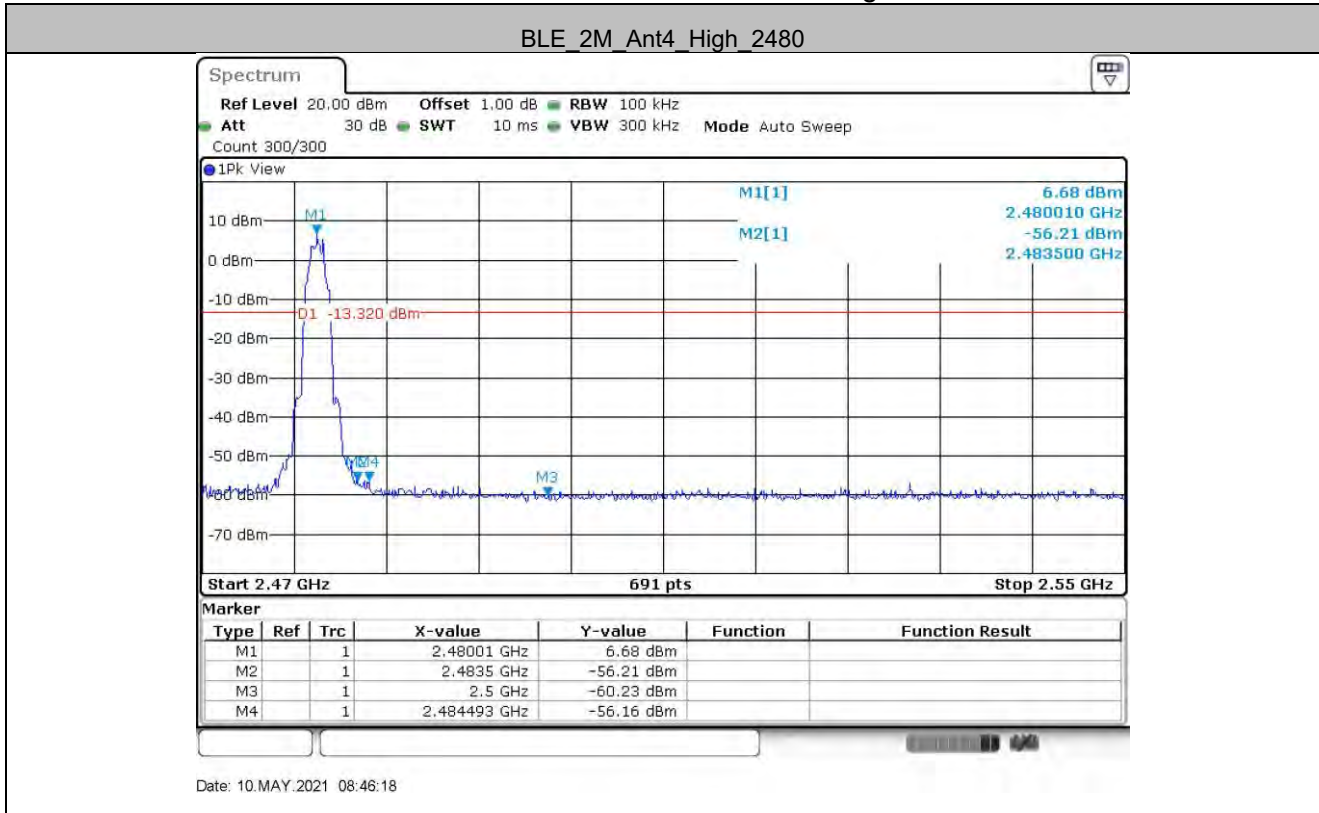
### BLE 2M Ant4 Low 2402



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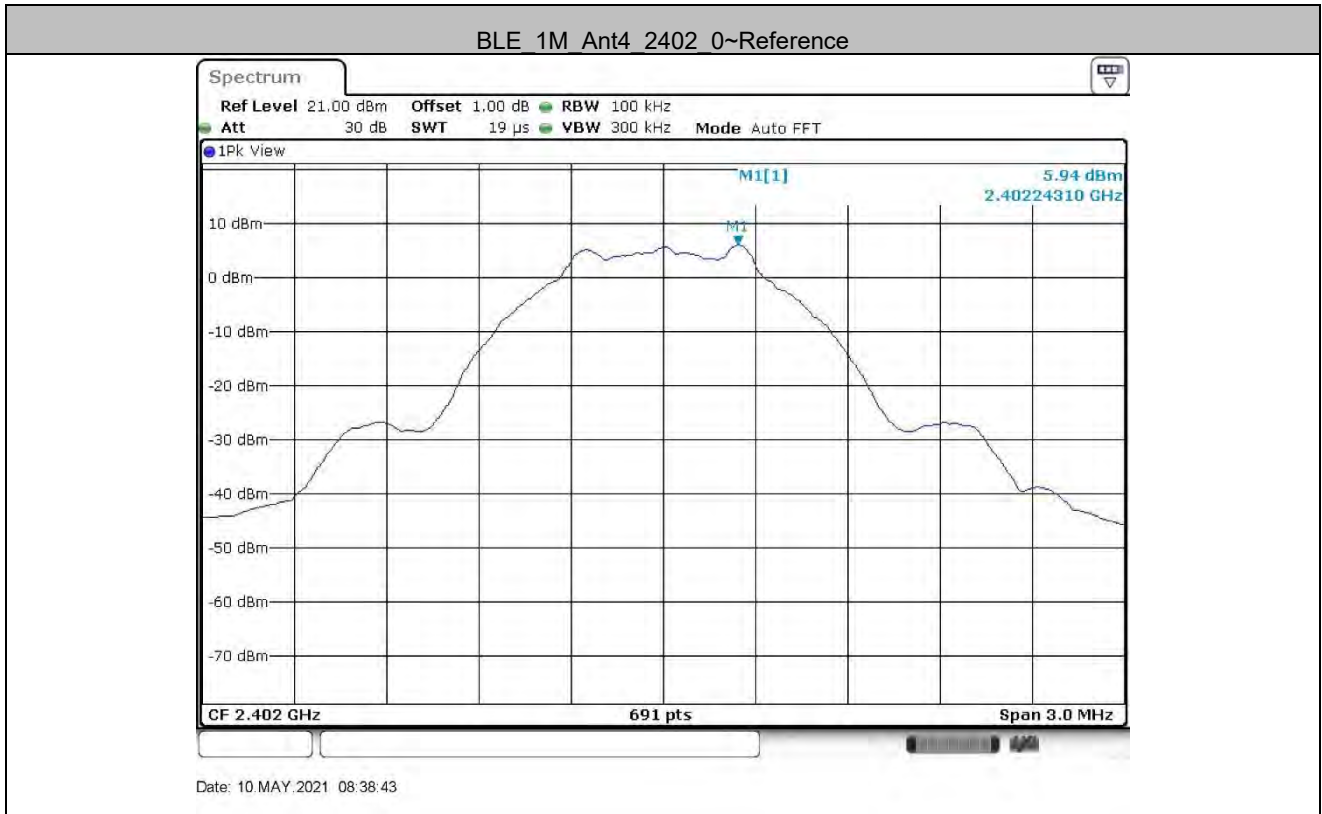
**Conducted Spurious Emission**  
**Test Result**

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant4	2402	Reference	5.94	5.94	---	PASS
			30~1000	5.94	-46.48	<=-14.06	PASS
			1000~26500	5.94	-31.79	<=-14.06	PASS
		2440	Reference	6.26	6.26	---	PASS
			30~1000	6.26	-45.81	<=-13.74	PASS
			1000~26500	6.26	-31.94	<=-13.74	PASS
		2480	Reference	7.19	7.19	---	PASS
			30~1000	7.19	-45.99	<=-12.81	PASS
			1000~26500	7.19	-31.54	<=-12.81	PASS
BLE_2M	Ant4	2402	Reference	5.54	5.54	---	PASS
			30~1000	5.54	-46.51	<=-14.46	PASS
			1000~26500	5.54	-31.81	<=-14.46	PASS
		2440	Reference	6.23	6.23	---	PASS
			30~1000	6.23	-46.22	<=-13.77	PASS
			1000~26500	6.23	-31.72	<=-13.77	PASS
		2480	Reference	6.97	6.97	---	PASS
			30~1000	6.97	-44.25	<=-13.03	PASS
			1000~26500	6.97	-31.81	<=-13.03	PASS



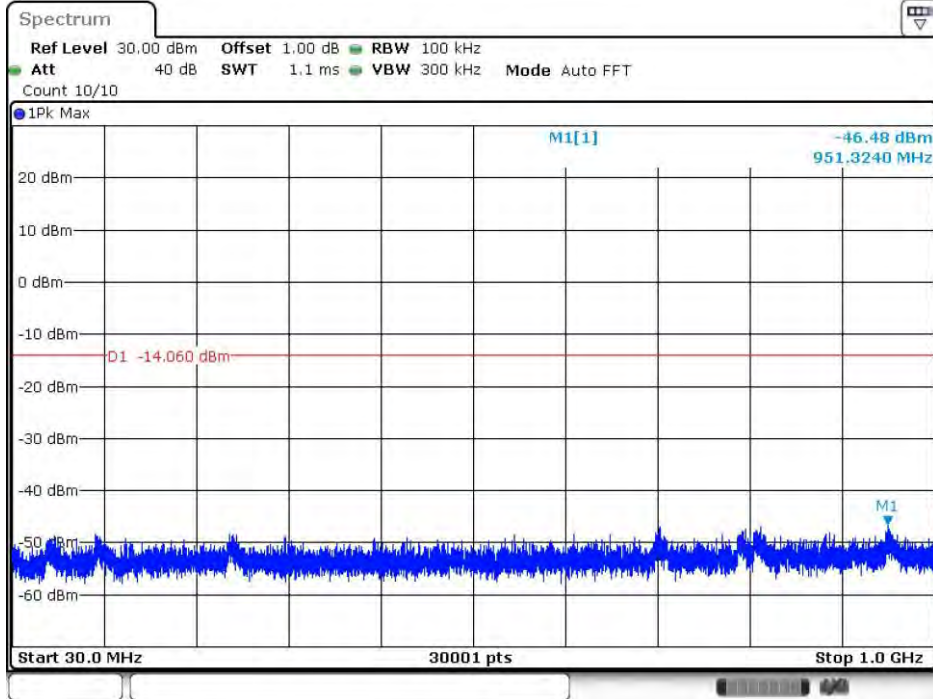
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### Test Graphs



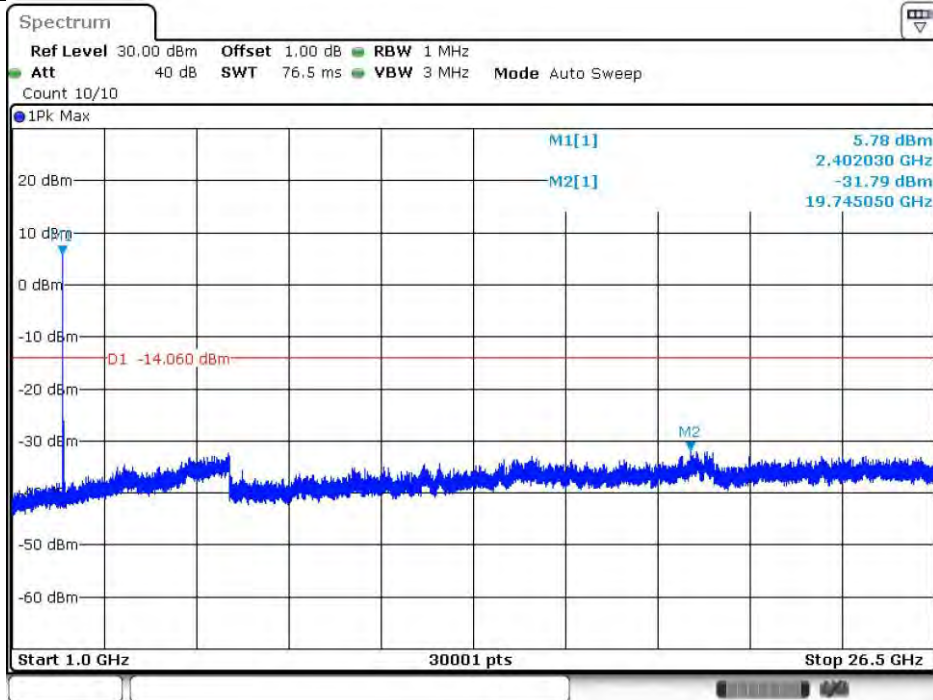
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BLE 1M Ant4 2402\_30~1000



Date: 10.MAY.2021 08:38:48

BLE 1M Ant4 2402\_1000~26500



Date: 10.MAY.2021 08:39:09



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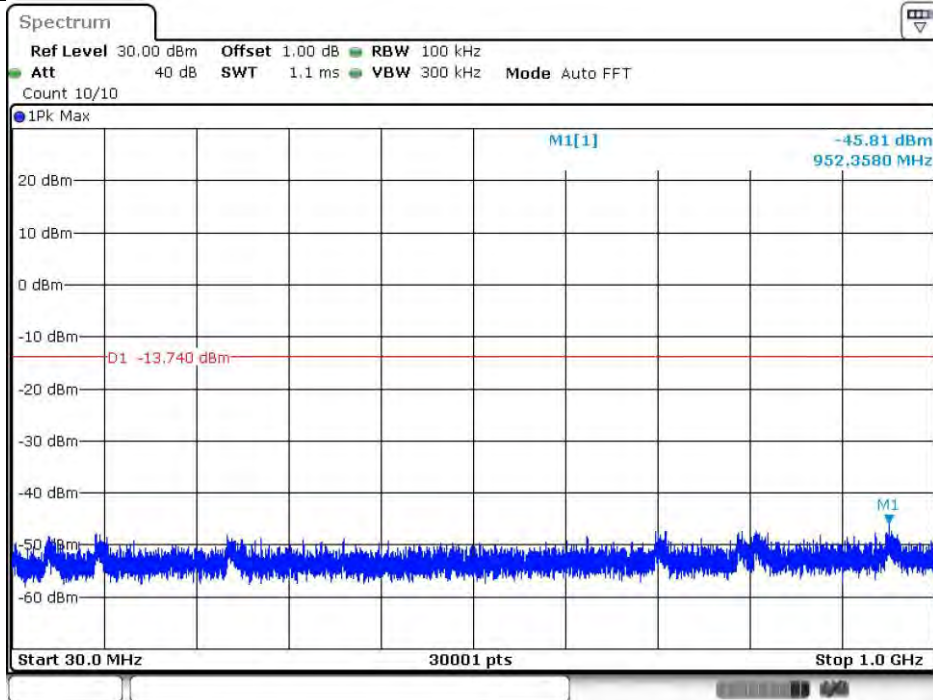


BLE 1M Ant4 2440 0~Reference



Date: 10.MAY.2021 08:40:01

BLE 1M Ant4 2440 30~1000

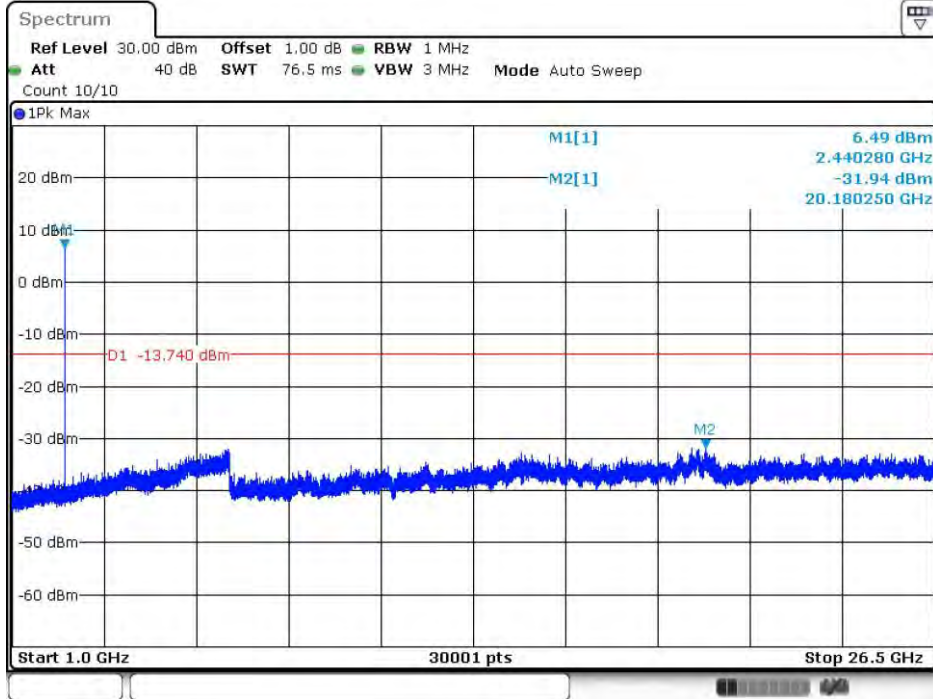


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BLE 1M Ant4 2440 1000~26500



Date: 10.MAY.2021 08:40:27

BLE 1M Ant4 2480 0~Reference



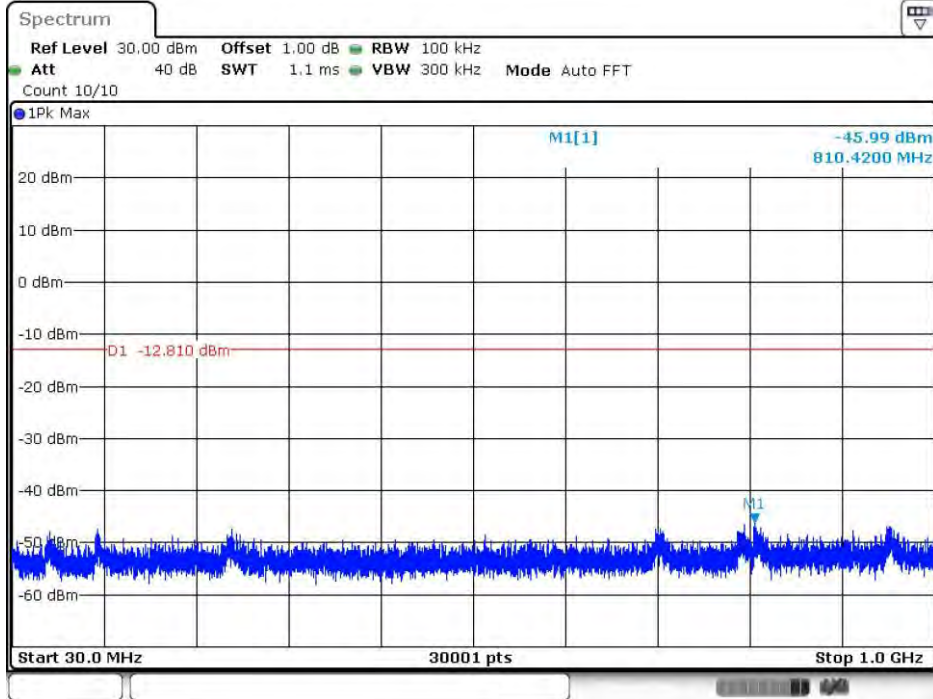
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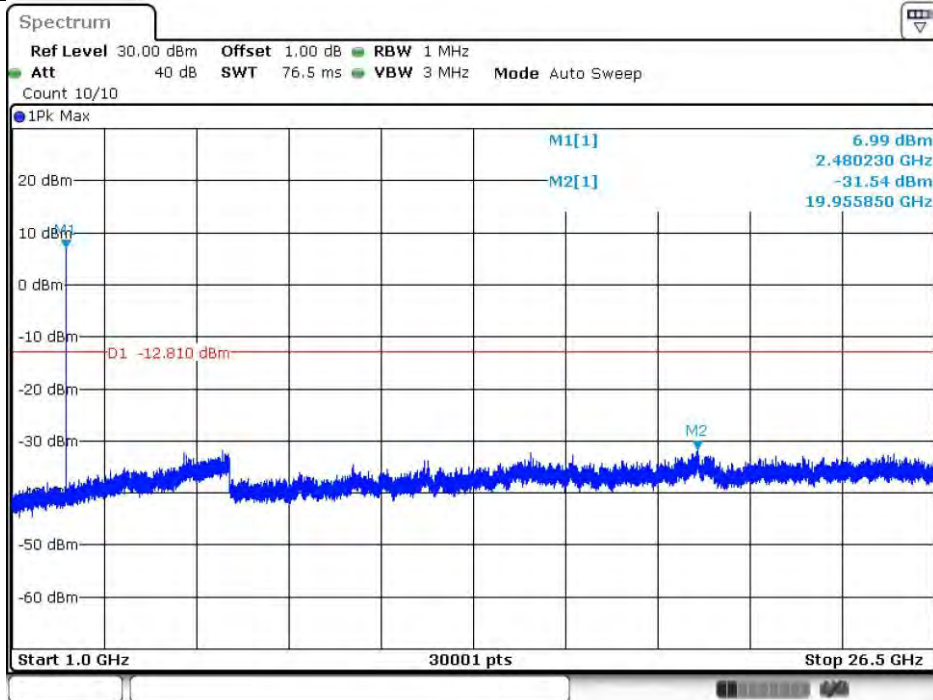
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BLE 1M Ant4 2480\_30~1000



Date: 10.MAY.2021 08:41:35

BLE 1M Ant4 2480\_1000~26500

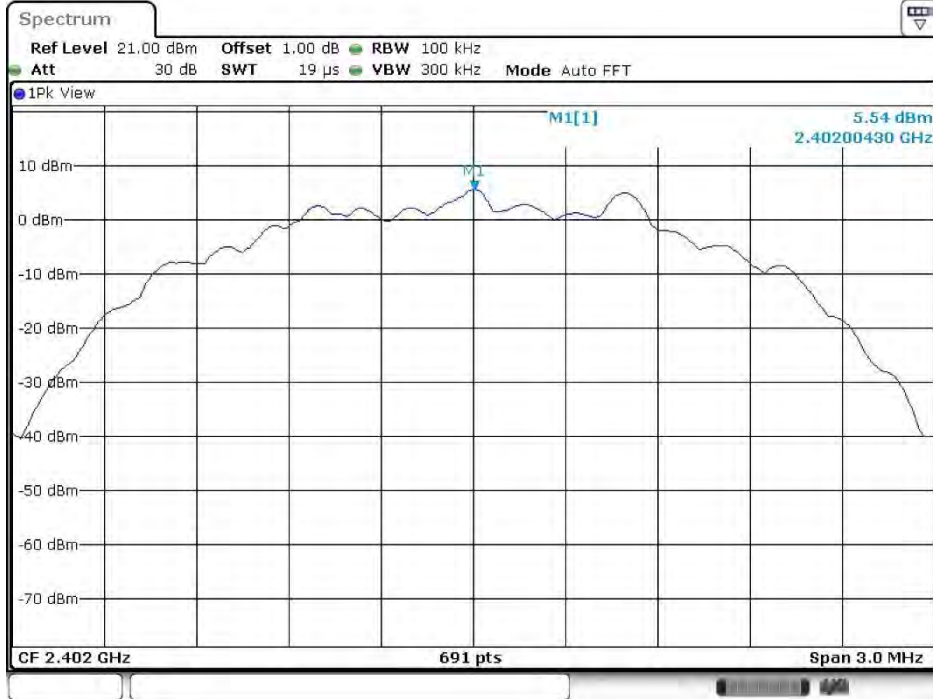


Date: 10.MAY.2021 08:41:57



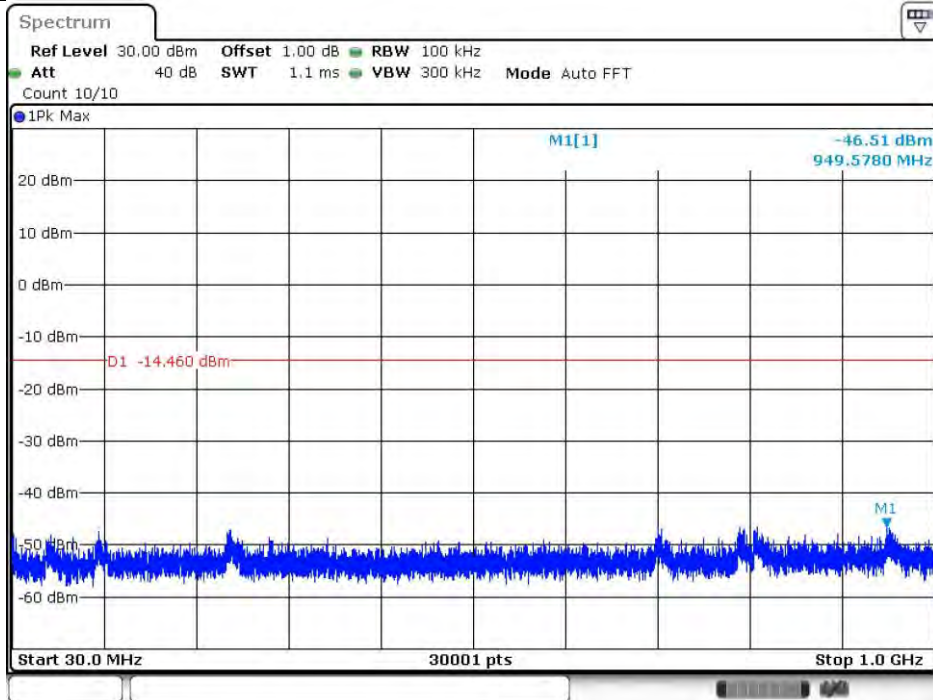
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### BLE 2M Ant4 2402\_0~Reference



Date: 10.MAY.2021 08:43:24

### BLE 2M Ant4 2402\_30~1000

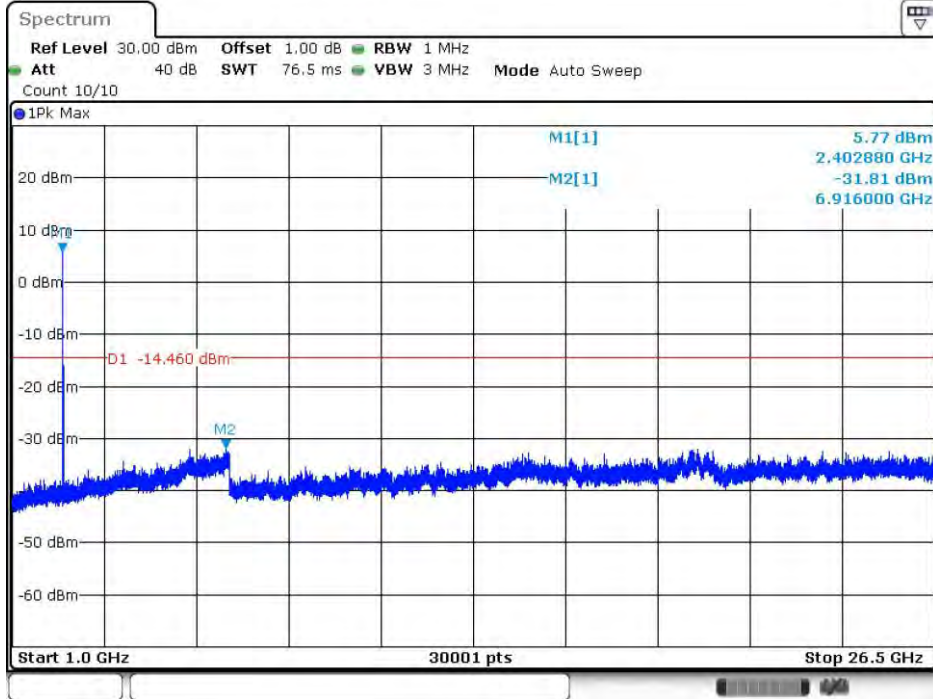


Date: 10.MAY.2021 08:43:28



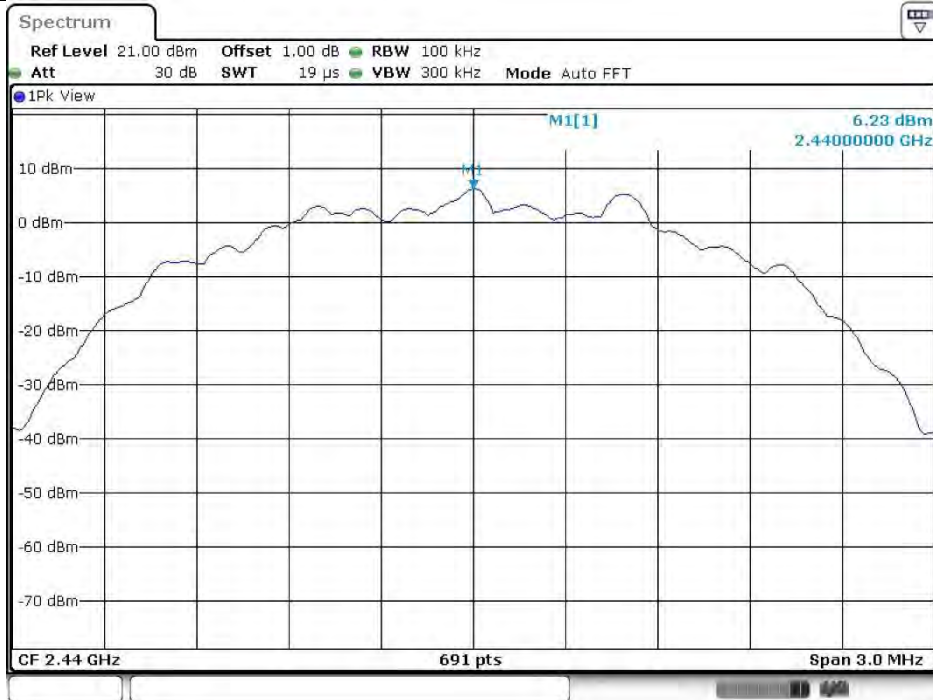
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BLE 2M Ant4 2402 1000~26500



Date: 10.MAY.2021 08:43:50

BLE 2M Ant4 2440 0~Reference



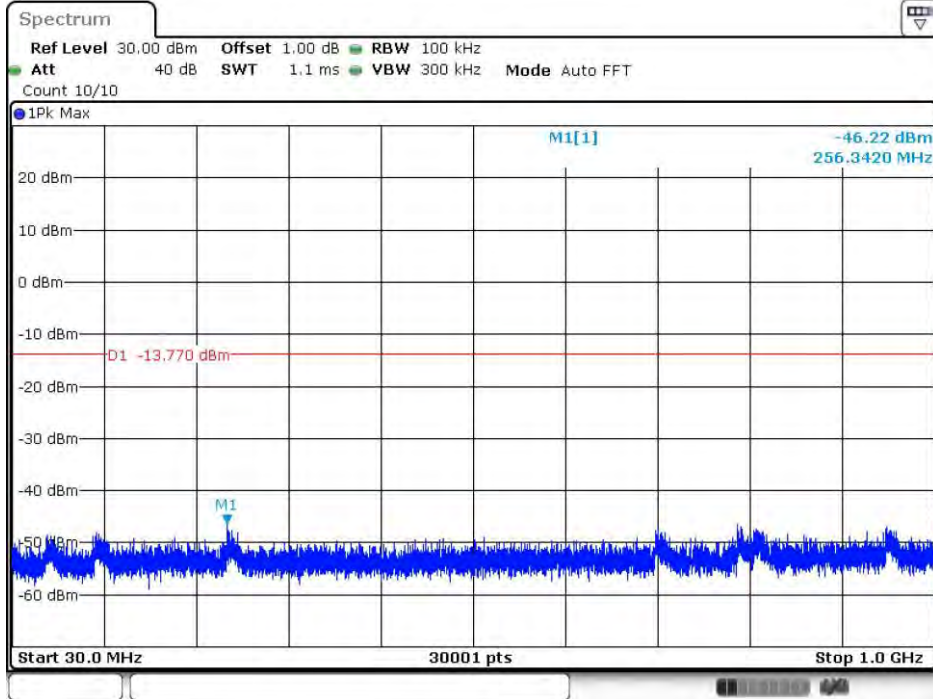
Date: 10.MAY.2021 08:44:55



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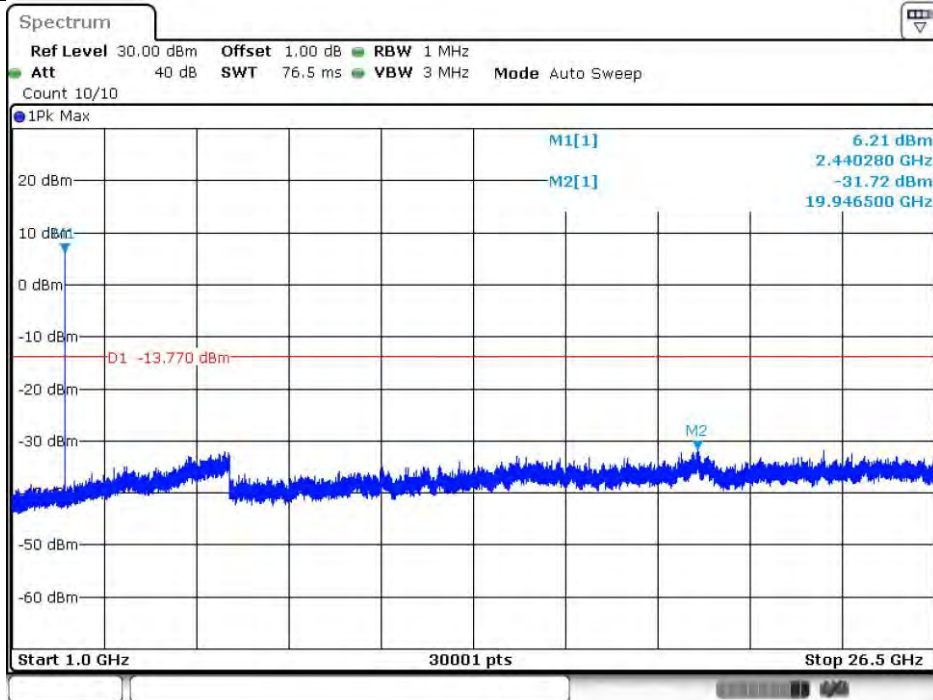
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BLE 2M Ant4 2440\_30~1000



Date: 10.MAY.2021 08:45:00

BLE 2M Ant4 2440\_1000~26500

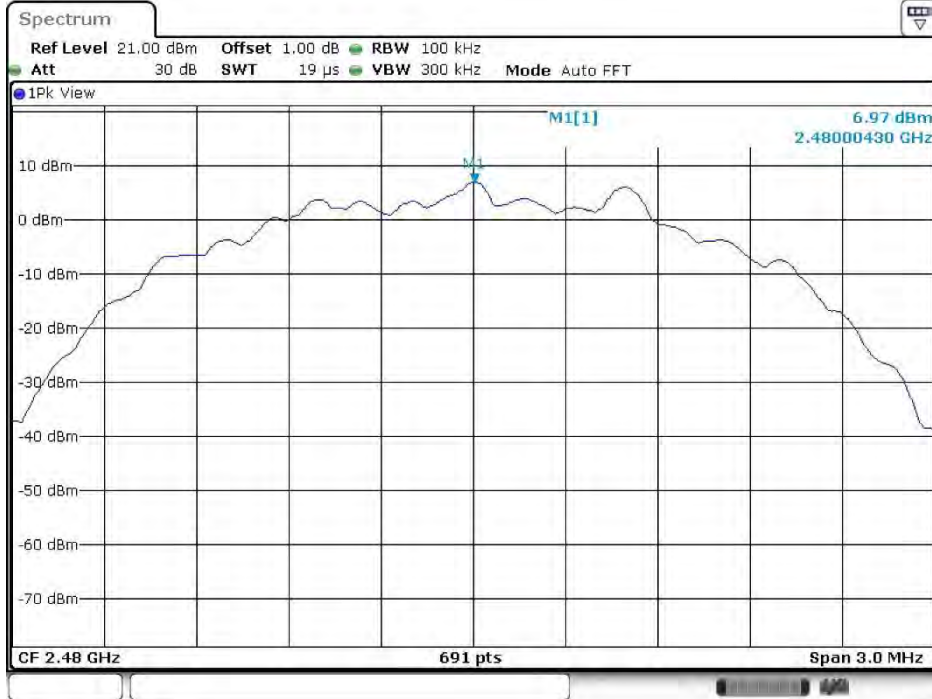


Date: 10.MAY.2021 08:45:21



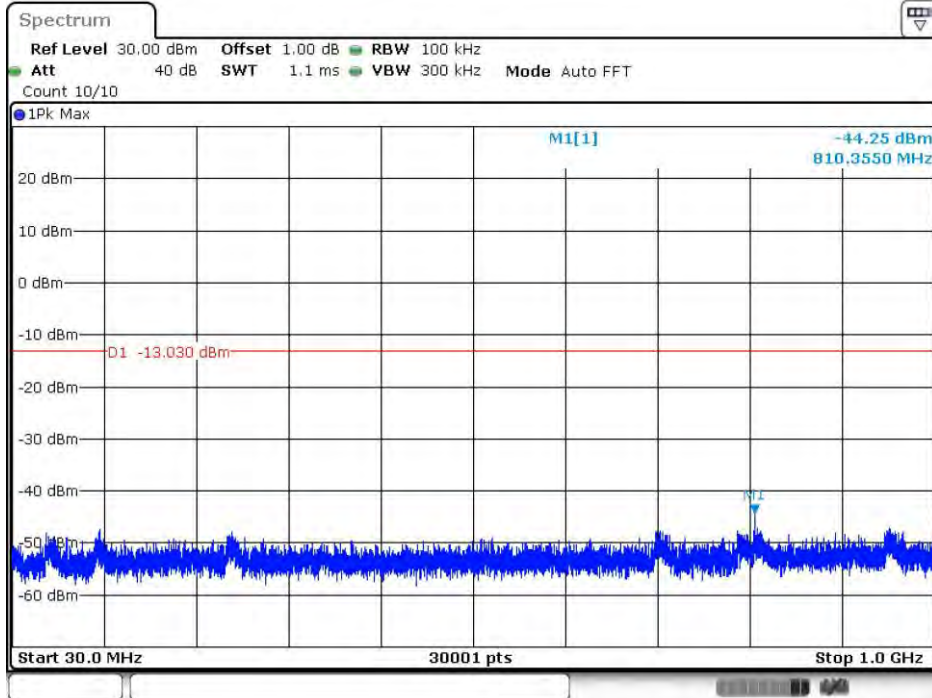
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### BLE 2M Ant4 2480 0~Reference



Date: 10 MAY.2021 08:46:22

### BLE 2M Ant4 2480 30~1000

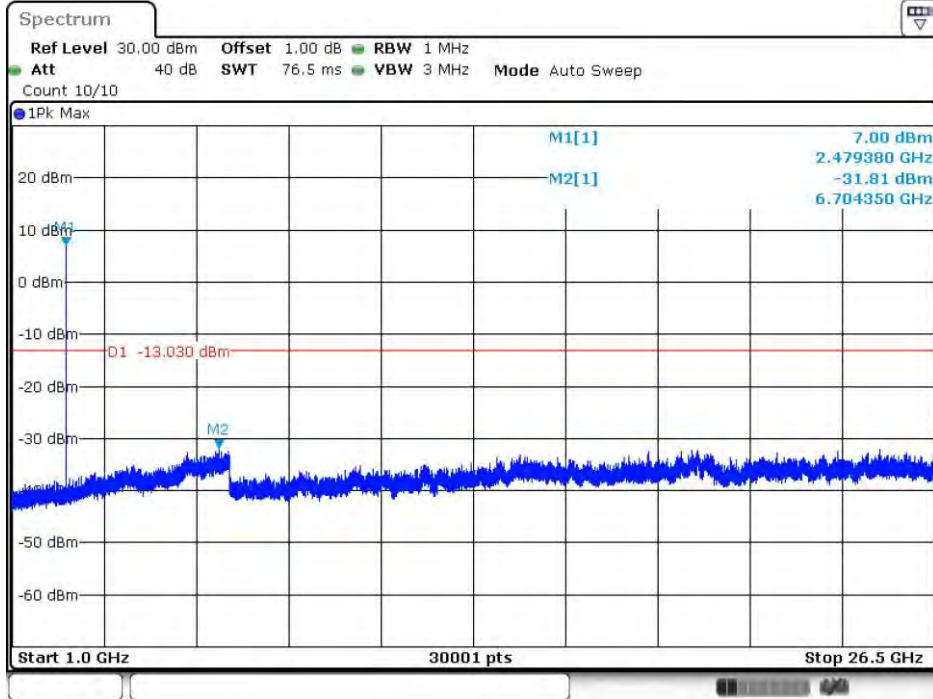


Date: 10.MAY.2021 08:46:26



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BLE 2M Ant4 2480 1000~26500



Date: 10.MAY.2021 08:46:48



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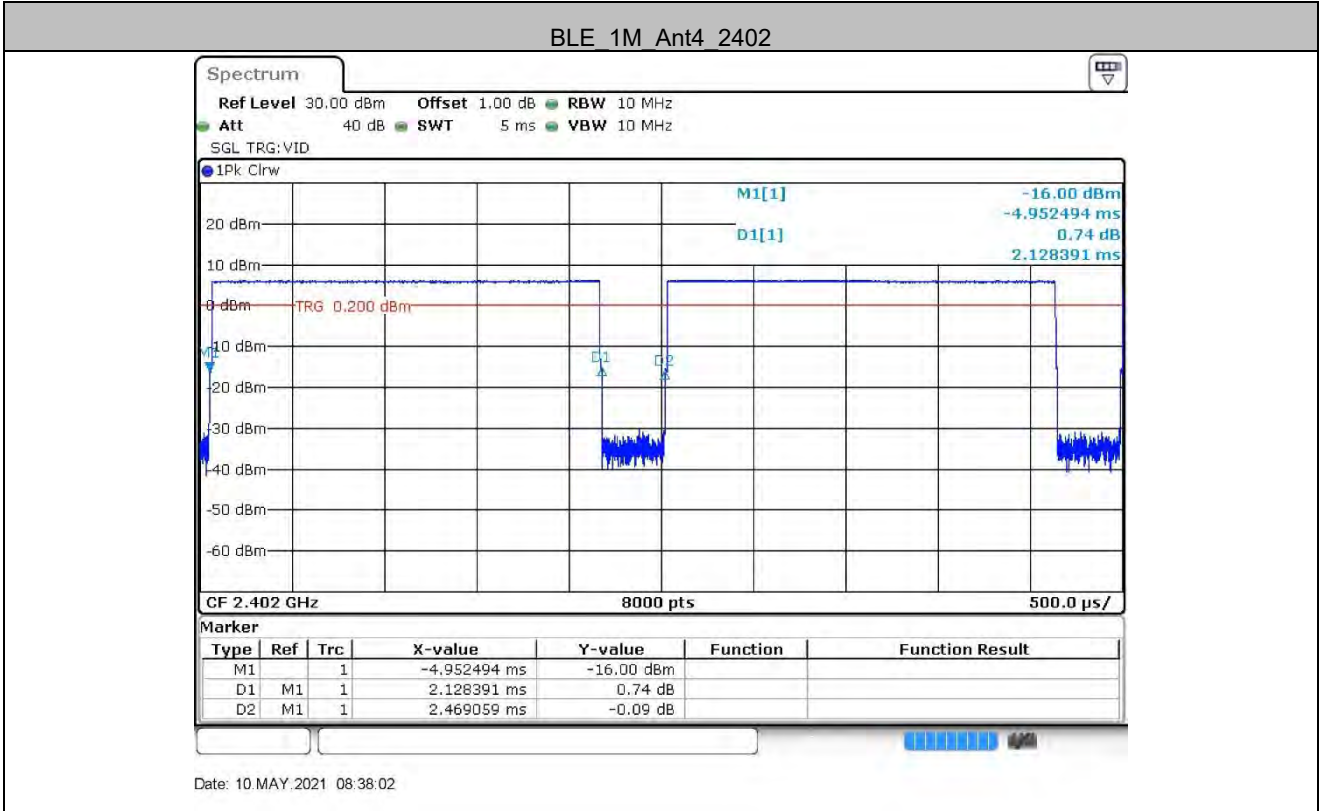
**Duty Cycle**  
**Test Result**

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
BLE_1M	Ant4	2402	2.13	2.47	86.23	---	PASS
		2440	2.13	2.47	86.23	---	PASS
		2480	2.13	2.47	86.23	---	PASS
BLE_2M	Ant4	2402	1.09	1.85	58.92	---	PASS
		2440	1.09	1.85	58.92	---	PASS
		2480	1.09	1.85	58.92	---	PASS



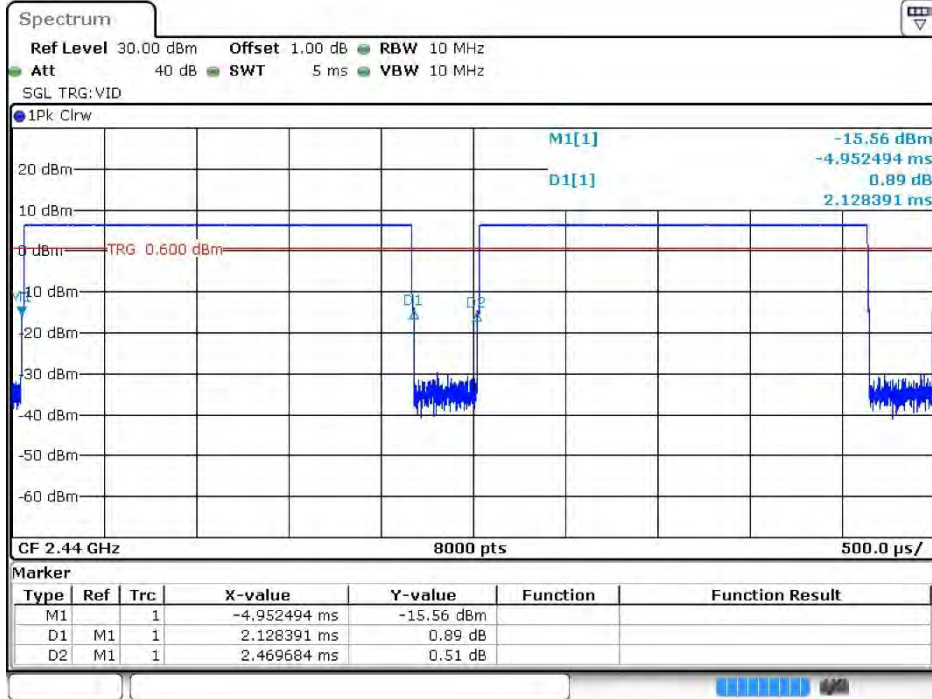
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### Test Graphs



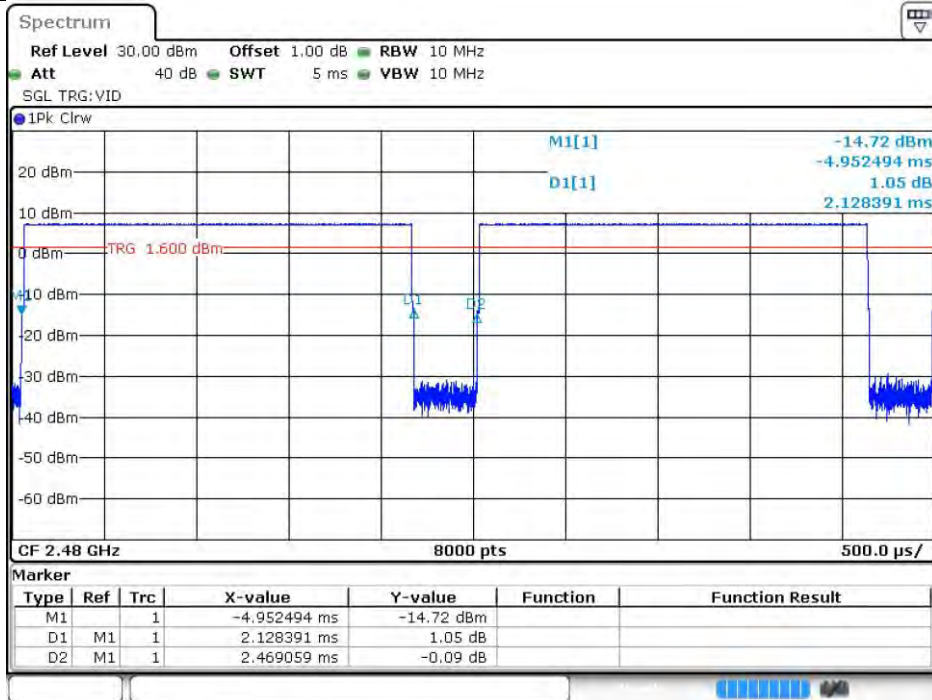
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### BLE\_1M\_Ant4\_2440



Date: 10 MAY.2021 08:39:29

### BLE\_1M\_Ant4\_2480



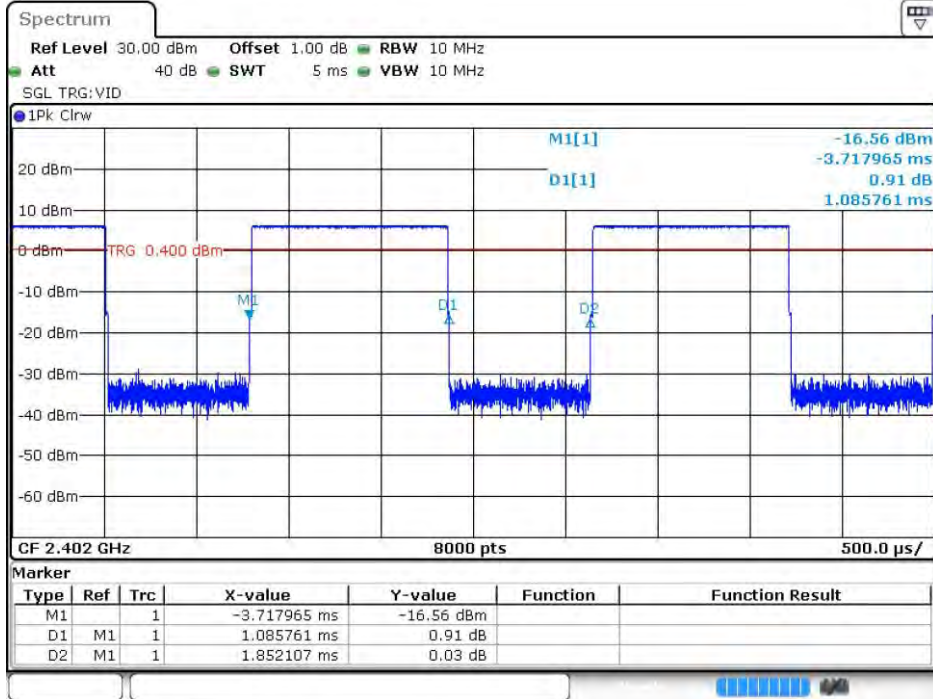
Date: 10.MAY.2021 08:40:50



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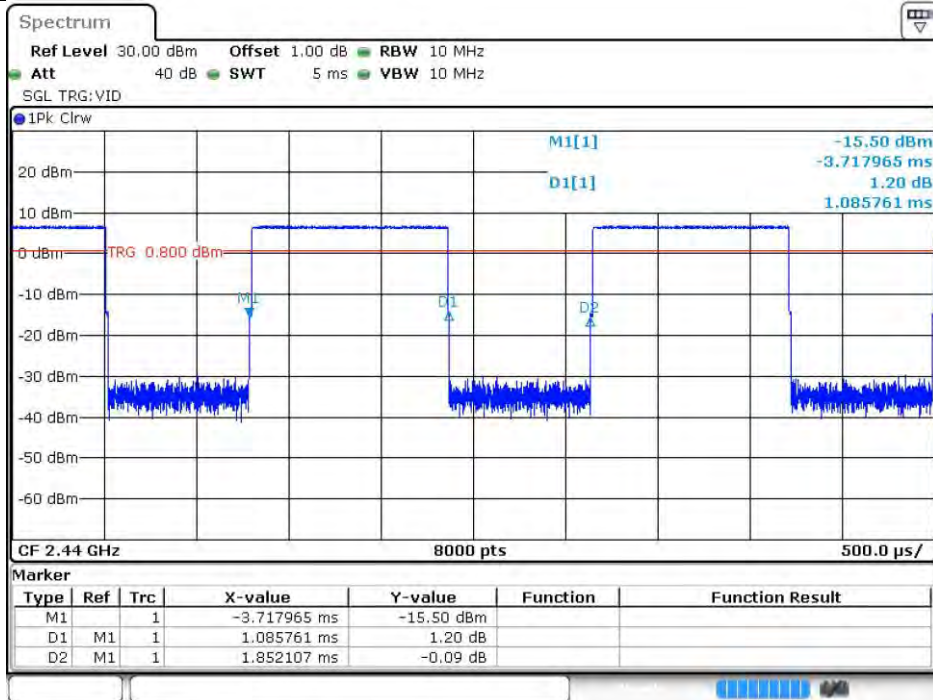
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### BLE\_2M\_Ant4\_2402



Date: 10.MAY.2021 08:42:43

### BLE\_2M\_Ant4\_2440

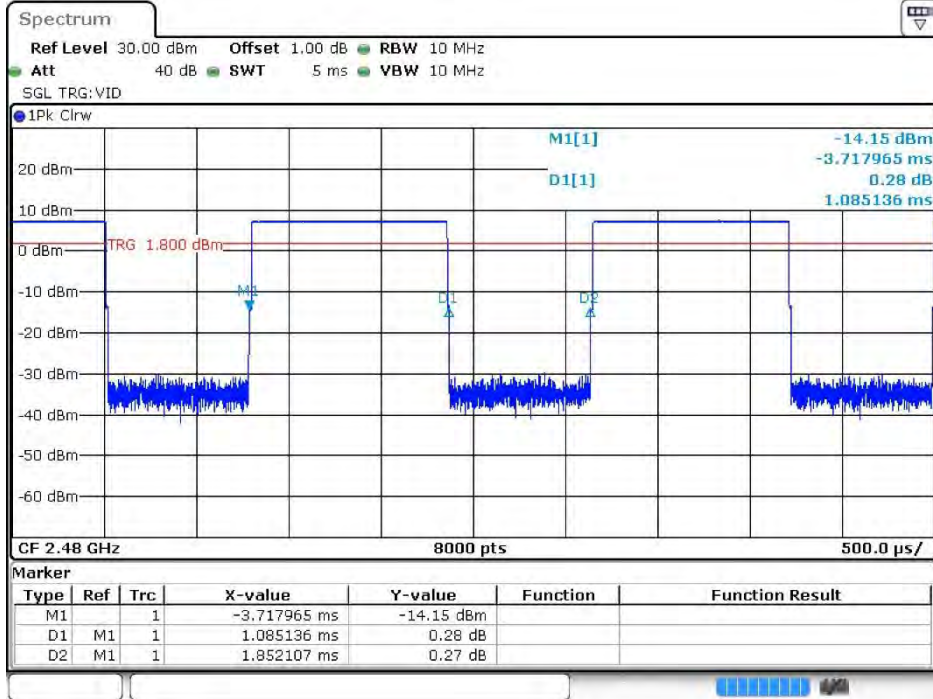


Date: 10.MAY.2021 08:44:23



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BLE\_2M\_Ant4\_2480



Date: 10 MAY 2021 08:45:41



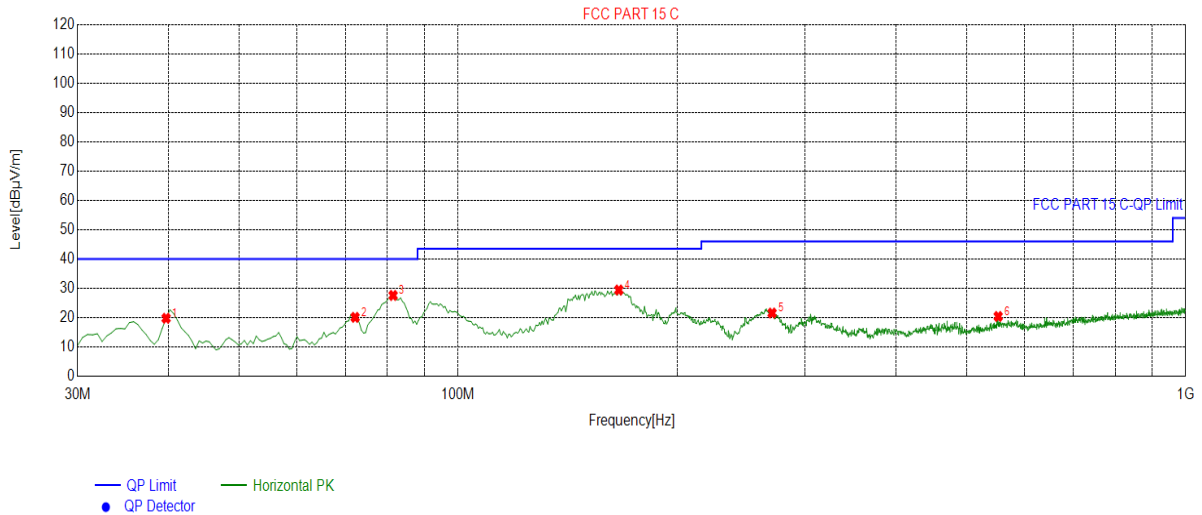
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## Radiated Spurious Emission

### Radiated Emission below 1GHz

### Charge + Transmitting BLE 1M

#### Test Graph



#### Suspected List

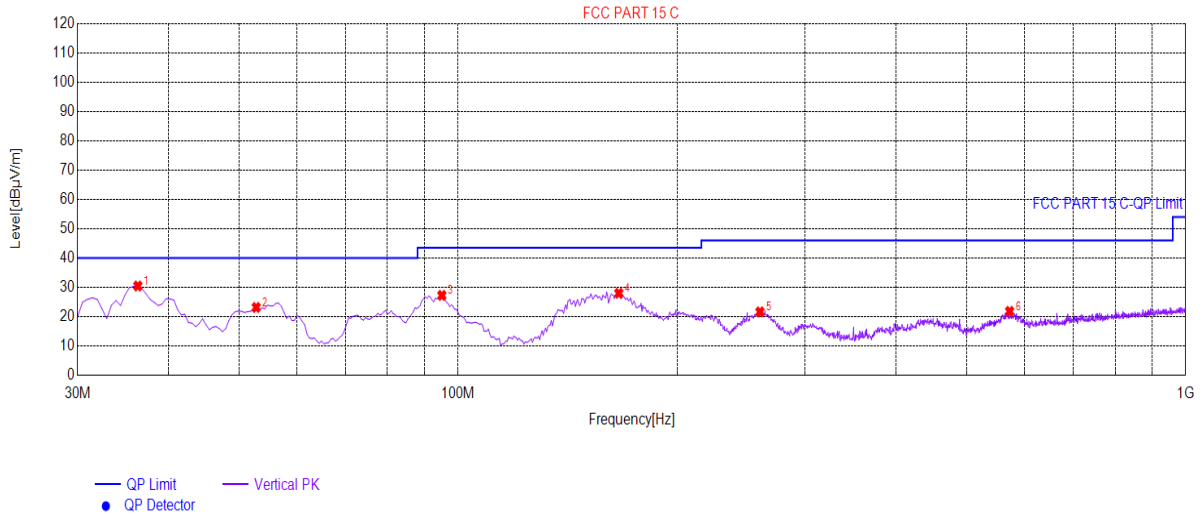
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.7049	19.79	-22.44	40.00	20.21	189	95	Horizontal
2	72.2161	20.10	-25.50	40.00	19.90	213	236	Horizontal
3	81.4357	27.58	-26.90	40.00	12.42	226	264	Horizontal
4	166.353	29.43	-25.30	43.50	14.07	200	101	Horizontal
5	270.195	21.57	-20.11	46.00	24.43	187	56	Horizontal
6	552.606	20.41	-13.05	46.00	25.59	165	142	Horizontal

#### Final Data List



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**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.3082	30.46	-23.53	40.00	9.54	187	291	Vertical
2	52.8064	23.15	-21.78	40.00	16.85	165	348	Vertical
3	95.0225	27.24	-23.69	43.50	16.26	189	113	Vertical
4	166.353	27.97	-25.30	43.50	15.53	178	2	Vertical
5	260.005	21.62	-20.40	46.00	24.38	169	21	Vertical
6	572.986	21.80	-12.74	46.00	24.20	185	360	Vertical

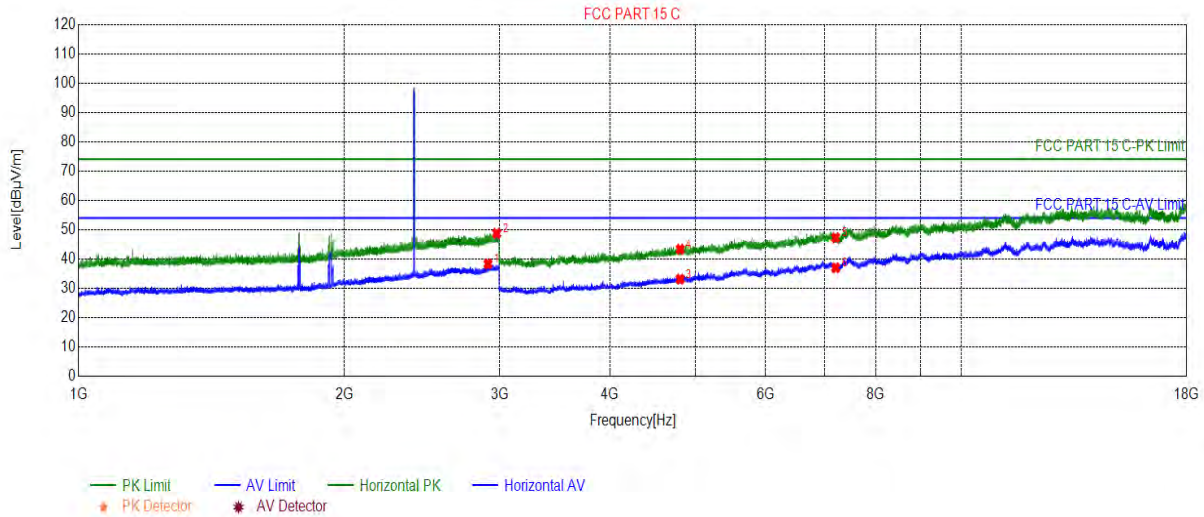
**Final Data List**



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**Transmitter Emission above 1GHz**  
**BLE 1M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2909.49	38.33	10.23	54.00	15.67	136	351	Horizontal
2	2976.99	48.71	10.48	74.00	25.29	203	255	Horizontal
3	4804.00	33.13	-15.41	54.00	20.87	213	165	Horizontal
4	4804.00	43.34	-15.41	74.00	30.66	224	216	Horizontal
5	7206.00	47.25	-8.59	74.00	26.75	236	18	Horizontal
6	7206.00	36.98	-8.59	54.00	17.02	189	44	Horizontal

**Final Data List**

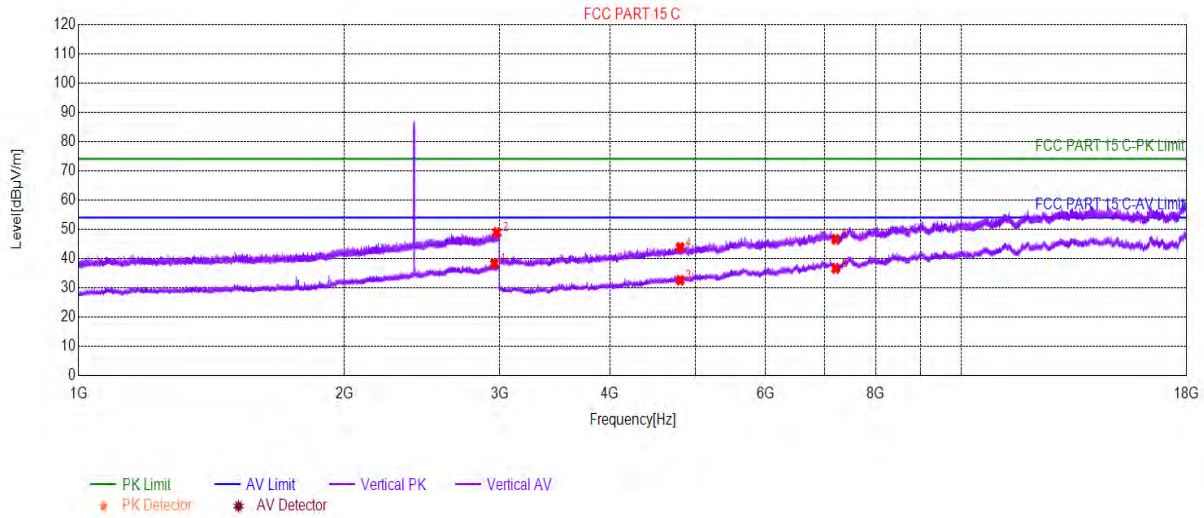


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**BLE 1M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2957.99	38.29	10.53	54.00	15.71	214	172	Vertical
2	2978.69	48.88	10.52	74.00	25.12	156	210	Vertical
3	4804.00	32.58	-15.41	54.00	21.42	222	104	Vertical
4	4804.00	43.80	-15.41	74.00	30.20	203	352	Vertical
5	7206.00	46.54	-8.59	74.00	27.46	147	163	Vertical
6	7206.00	36.61	-8.59	54.00	17.39	136	18	Vertical

**Final Data List**

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

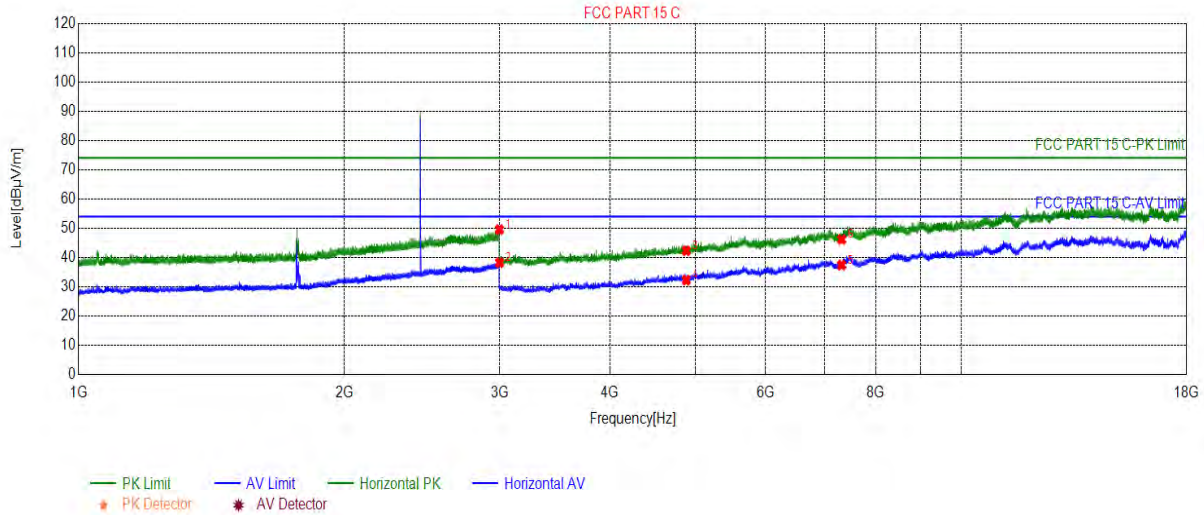


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### BLE\_1M\_Channel 19

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2997.99	49.55	10.75	74.00	24.45	165	300	Horizontal
2	2999.20	38.24	10.78	54.00	15.76	136	358	Horizontal
3	4880.00	42.31	-15.07	74.00	31.69	145	61	Horizontal
4	4880.00	32.27	-15.07	54.00	21.73	189	275	Horizontal
5	7320.00	37.43	-8.63	54.00	16.57	160	257	Horizontal
6	7320.00	46.20	-8.63	74.00	27.80	113	352	Horizontal

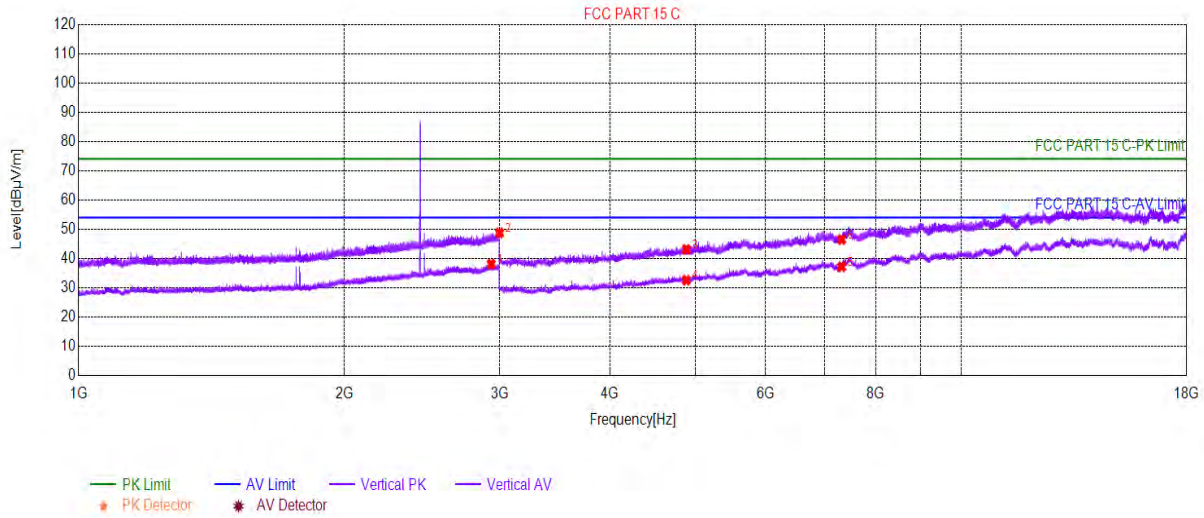
#### Final Data List



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**BLE\_1M\_Channel 19**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2933.49	38.09	10.54	54.00	15.91	296	167	Vertical
2	2998.09	48.73	10.75	74.00	25.27	236	197	Vertical
3	4880.00	43.11	-15.07	74.00	30.89	215	187	Vertical
4	4880.00	32.58	-15.07	54.00	21.42	241	90	Vertical
5	7320.00	37.19	-8.63	54.00	16.81	203	214	Vertical
6	7320.00	46.49	-8.63	74.00	27.51	225	82	Vertical

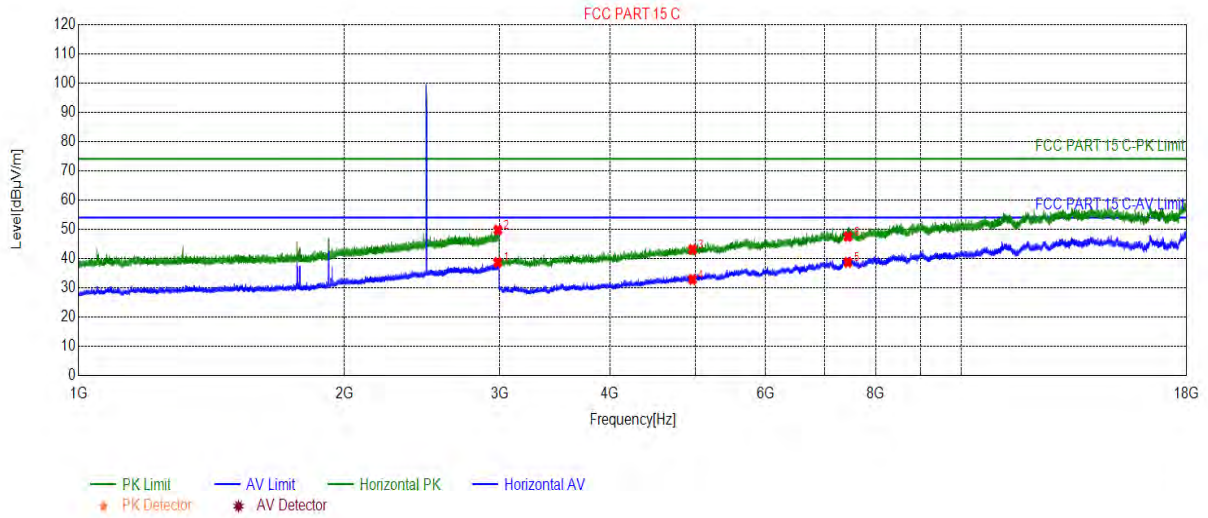
**Final Data List**



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BLE 1M\_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2984.69	38.65	10.52	54.00	15.35	169	314	Horizontal
2	2986.09	49.72	10.51	74.00	24.28	165	358	Horizontal
3	4960.00	43.04	-14.40	74.00	30.96	172	90	Horizontal
4	4960.00	32.82	-14.40	54.00	21.18	188	214	Horizontal
5	7440.00	38.69	-7.31	54.00	15.31	162	359	Horizontal
6	7440.00	47.48	-7.31	74.00	26.52	131	104	Horizontal

Final Data List

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

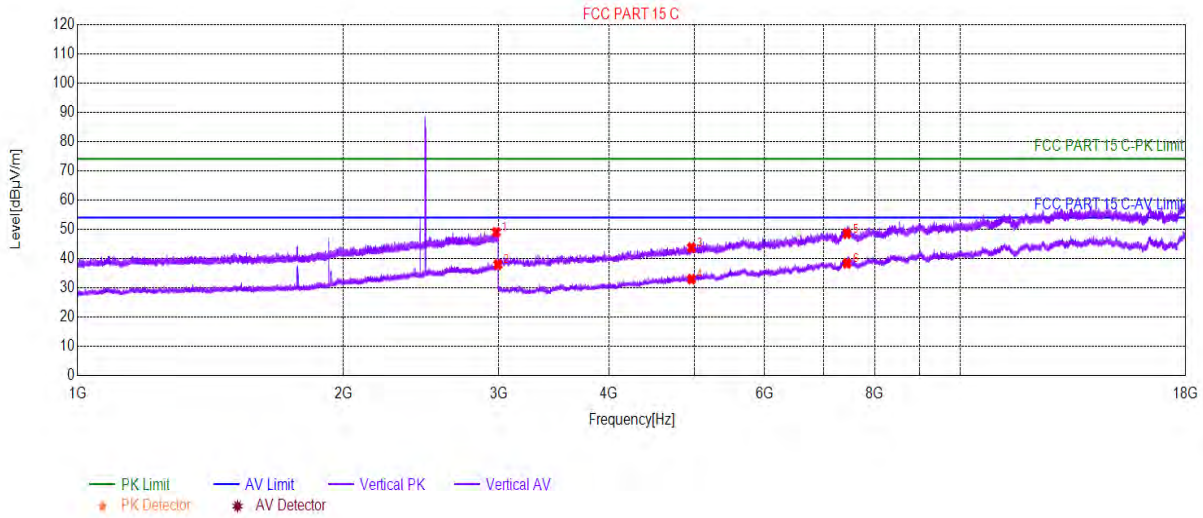


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**BLE 1M\_Channel 39**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2981.59	48.96	10.54	74.00	25.04	269	135	Vertical
2	2993.19	37.90	10.59	54.00	16.10	213	143	Vertical
3	4960.00	43.71	-14.40	74.00	30.29	211	190	Vertical
4	4960.00	32.92	-14.40	54.00	21.08	265	327	Vertical
5	7440.00	48.51	-7.31	74.00	25.49	203	2	Vertical
6	7440.00	38.33	-7.31	54.00	15.67	233	122	Vertical

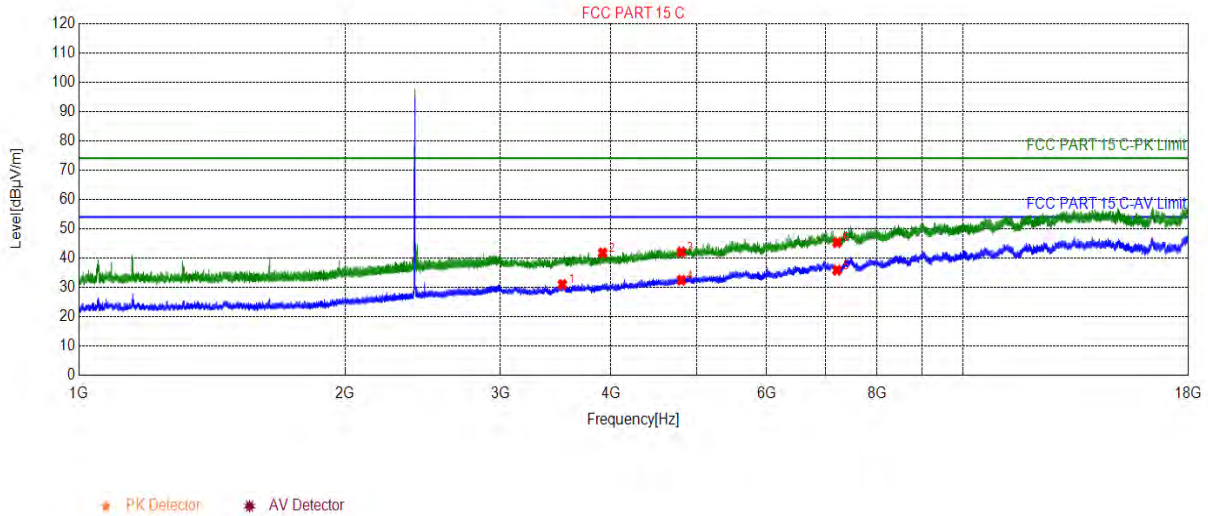
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**BLE 2M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3523.82	30.99	-19.83	54.00	23.01	174	218	Horizontal
2	3914.43	41.75	-18.59	74.00	32.25	185	137	Horizontal
3	4804.00	42.00	-15.41	74.00	32.00	194	76	Horizontal
4	4804.00	32.43	-15.41	54.00	21.57	204	154	Horizontal
5	7206.00	35.83	-8.59	54.00	18.17	234	120	Horizontal
6	7206.00	45.27	-8.59	74.00	28.73	212	188	Horizontal

**Final Data List**



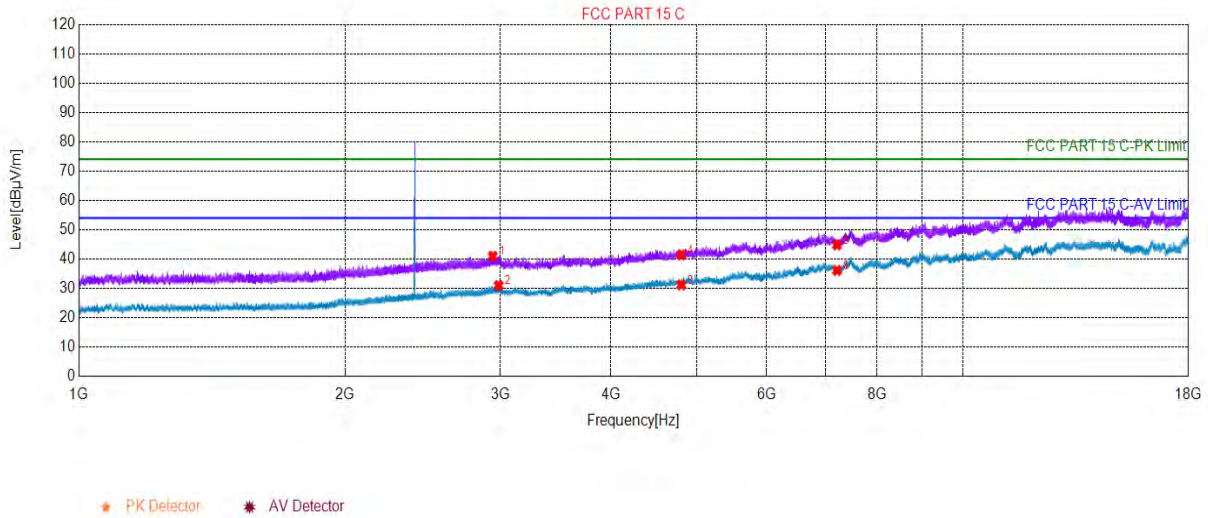
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BLE 2M\_Channel 0

Test Graph



Suspected List

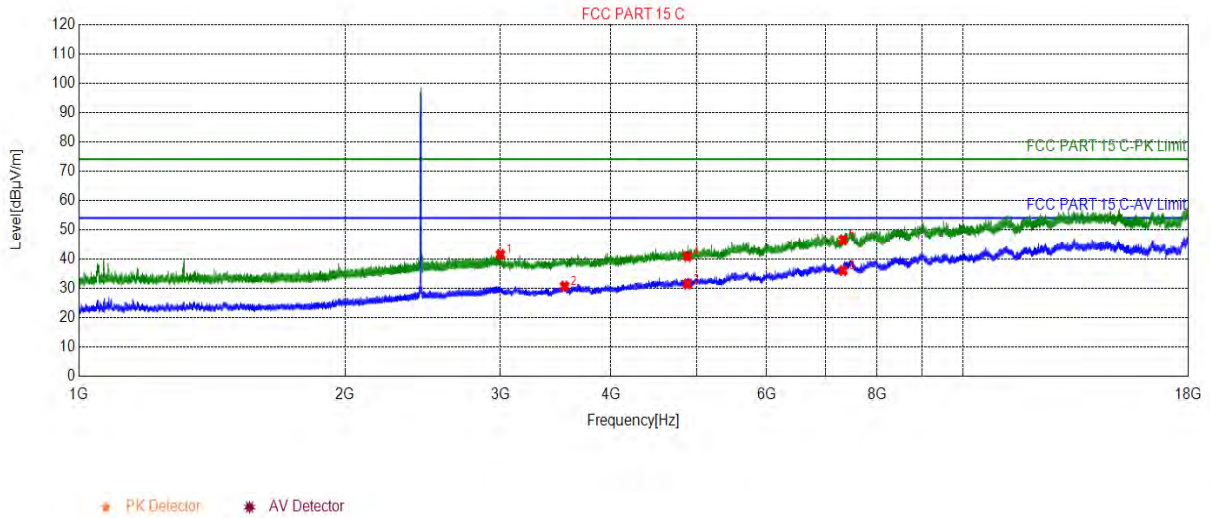
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2939.89	40.98	10.50	74.00	33.02	158	254	Vertical
2	2984.89	30.98	10.52	54.00	23.02	269	46	Vertical
3	4804.00	31.19	-15.41	54.00	22.81	246	246	Vertical
4	4804.00	41.43	-15.41	74.00	32.57	273	332	Vertical
5	7206.00	44.80	-8.59	74.00	29.20	213	260	Vertical
6	7206.00	36.09	-8.59	54.00	17.91	216	27	Vertical

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**BLE 2M\_Channel 19**  
**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2998.89	41.54	10.77	74.00	32.46	157	359	Horizontal
2	3545.42	30.70	-20.06	54.00	23.30	195	14	Horizontal
3	4880.00	31.44	-15.07	54.00	22.56	203	358	Horizontal
4	4880.00	40.89	-15.07	74.00	33.11	219	275	Horizontal
5	7320.00	46.55	-8.63	74.00	27.45	223	159	Horizontal
6	7320.00	36.05	-8.63	54.00	17.95	238	29	Horizontal

**Final Data List**

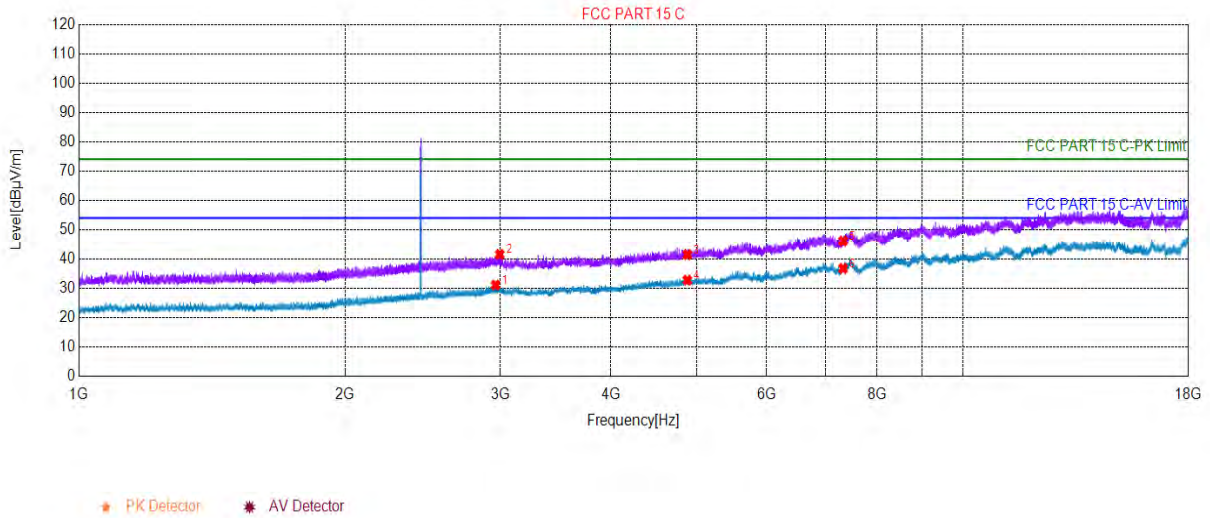


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BLE 2M\_Channel 19

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2961.69	31.11	10.48	54.00	22.89	159	23	Vertical
2	2993.69	41.57	10.61	74.00	32.43	185	170	Vertical
3	4880.00	41.47	-15.07	74.00	32.53	196	2	Vertical
4	4880.00	32.77	-15.07	54.00	21.23	204	289	Vertical
5	7320.00	46.15	-8.63	74.00	27.85	219	186	Vertical
6	7320.00	36.76	-8.63	54.00	17.24	223	259	Vertical

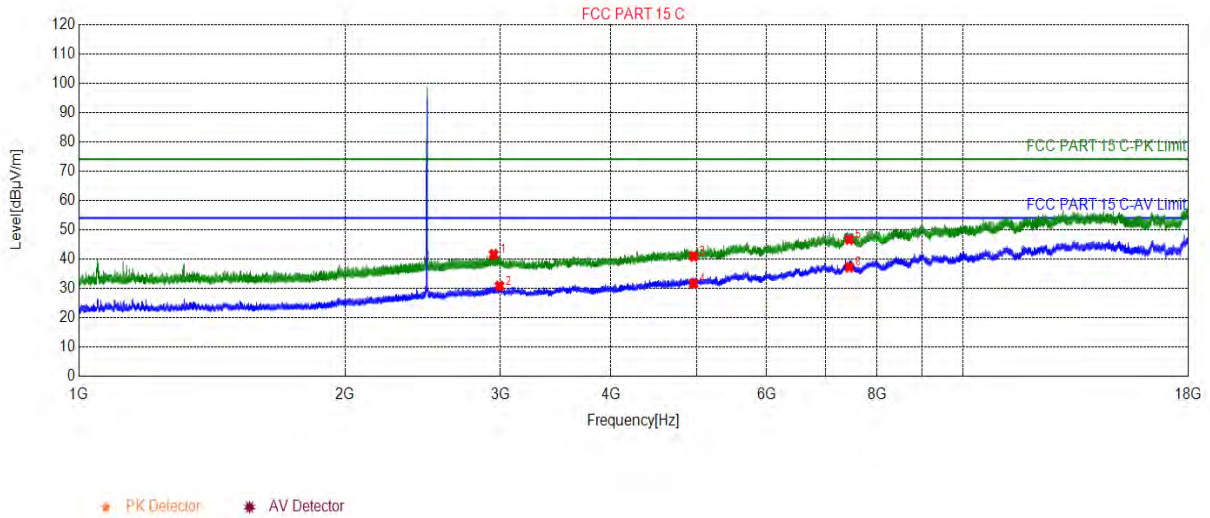
Final Data List



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BLE 2M\_Channel 39

Test Graph



Suspected List

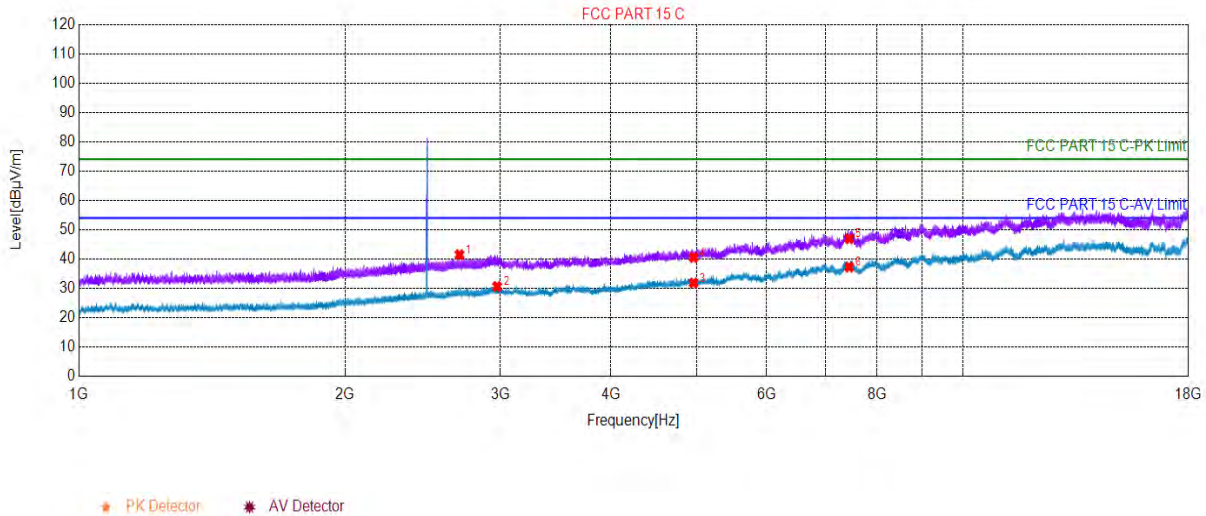
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2946.99	41.54	10.55	74.00	32.46	159	150	Horizontal
2	2991.79	30.76	10.55	54.00	23.24	169	251	Horizontal
3	4960.00	40.96	-14.40	74.00	33.04	241	290	Horizontal
4	4960.00	31.59	-14.40	54.00	22.41	231	0	Horizontal
5	7440.00	46.68	-7.31	74.00	27.32	266	185	Horizontal
6	7440.00	37.20	-7.31	54.00	16.80	213	0	Horizontal

Final Data List



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**BLE 2M\_Channel 39**  
**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2695.98	41.45	9.45	74.00	32.55	187	73	Vertical
2	2973.59	30.61	10.41	54.00	23.39	169	22	Vertical
3	4960.00	31.83	-14.40	54.00	22.17	188	348	Vertical
4	4960.00	40.51	-14.40	74.00	33.49	194	197	Vertical
5	7440.00	46.89	-7.31	74.00	27.11	182	139	Vertical
6	7440.00	37.22	-7.31	54.00	16.78	199	319	Vertical

**Final Data List**

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:  
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Pre-amplifier 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.



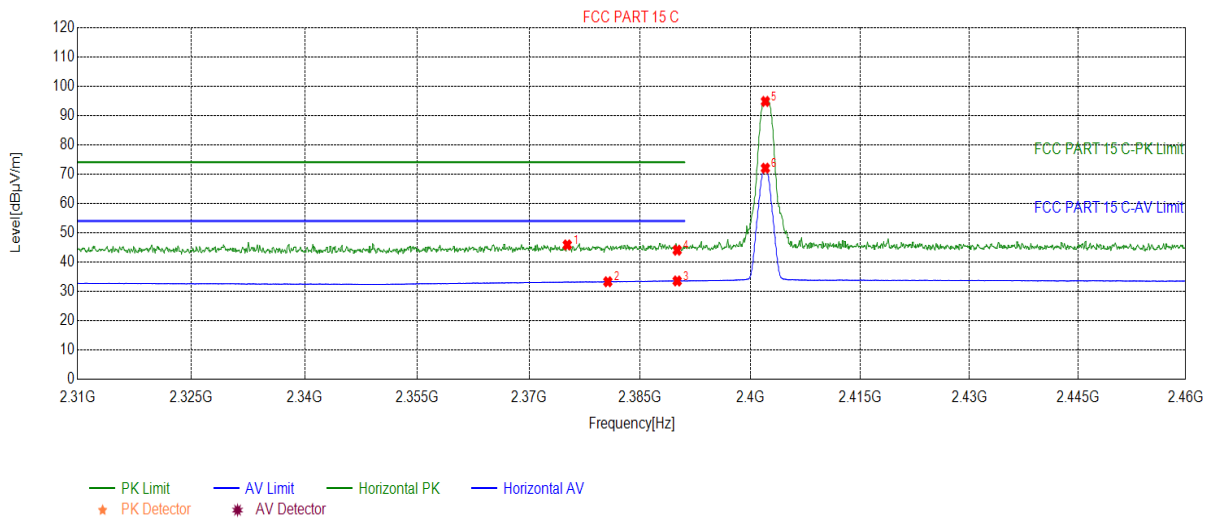
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## Restricted bands around fundamental frequency

### Test plots

#### BLE 1M\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.13	45.83	9.20	74.00	28.17	218	58	Horizontal
2	2380.61	33.27	9.35	54.00	20.73	308	136	Horizontal
3	2390.00	33.53	9.60	54.00	20.47	205	241	Horizontal
4	2390.00	44.03	9.60	74.00	29.97	237	69	Horizontal
5	2402.00	94.75	9.87	0.00	-94.75	367	125	Horizontal
6	2402.00	71.99	9.87	0.00	-71.99	184	245	Horizontal

#### Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.13	45.83	9.20	74.00	28.17	218	58	Horizontal
2	2380.61	33.27	9.35	54.00	20.73	308	136	Horizontal
3	2390.00	33.53	9.60	54.00	20.47	205	241	Horizontal
4	2390.00	44.03	9.60	74.00	29.97	237	69	Horizontal
5	2402.00	94.75	9.87	0.00	-94.75	367	125	Horizontal
6	2402.00	71.99	9.87	0.00	-71.99	184	245	Horizontal

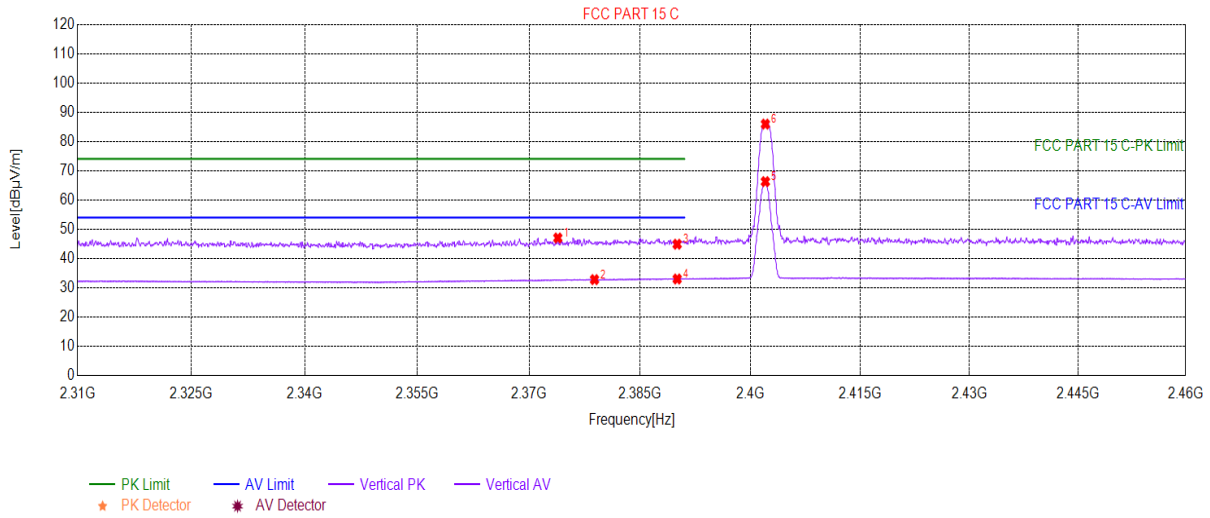


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**BLE 1M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2373.85	47.02	9.17	74.00	26.98	256	145	Vertical
2	2378.80	32.79	9.30	54.00	21.21	241	158	Vertical
3	2390.00	44.88	9.60	74.00	29.12	278	214	Vertical
4	2390.00	33.00	9.60	54.00	21.00	256	23	Vertical
5	2402.00	66.26	9.87	0.00	-66.26	236	158	Vertical
6	2402.00	85.92	9.87	0.00	-85.92	247	174	Vertical

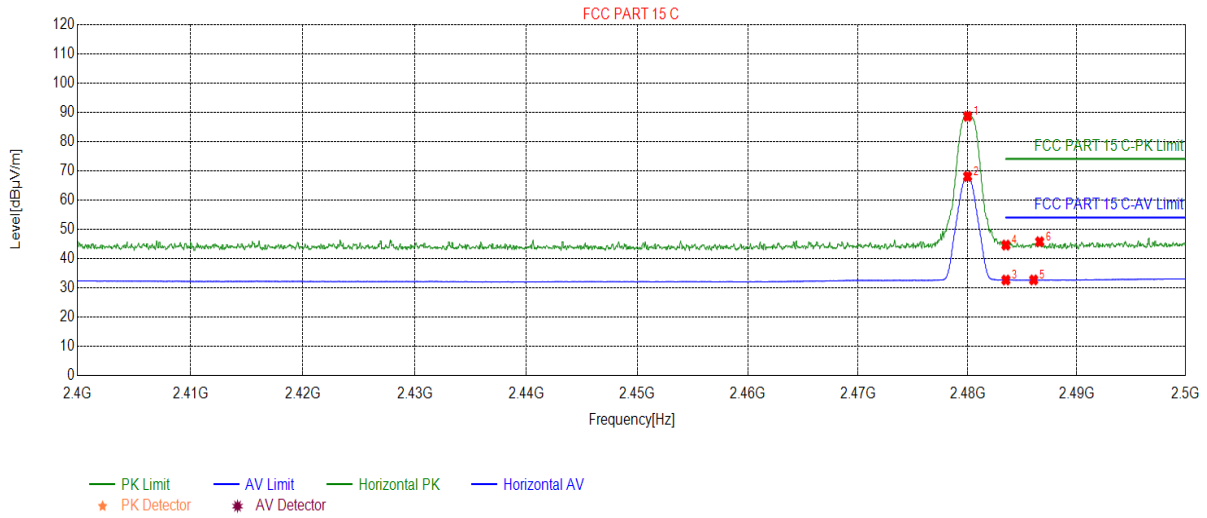
**Final Data List**



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BLE 1M\_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	88.57	8.47	0.00	-88.57	246	23	Horizontal
2	2480.00	68.01	8.47	0.00	-68.01	274	187	Horizontal
3	2483.50	32.63	8.48	54.00	21.37	285	198	Horizontal
4	2483.50	44.57	8.48	74.00	29.43	263	210	Horizontal
5	2486.04	32.68	8.49	54.00	21.32	250	198	Horizontal
6	2486.59	45.72	8.49	74.00	28.28	236	165	Horizontal

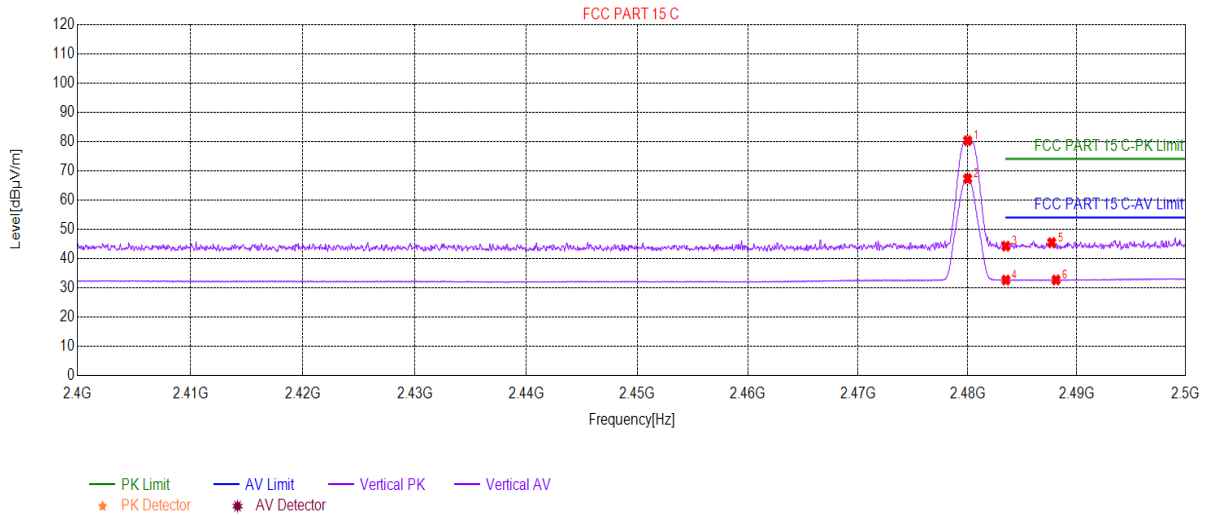
Final Data List



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### BLE 1M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	80.24	8.47	0.00	-80.24	254	85	Vertical
2	2480.00	67.28	8.47	0.00	-67.28	250	52	Vertical
3	2483.50	44.21	8.48	74.00	29.79	263	136	Vertical
4	2483.50	32.63	8.48	54.00	21.37	278	36	Vertical
5	2487.69	45.46	8.50	74.00	28.54	255	213	Vertical
6	2488.09	32.67	8.50	54.00	21.33	213	198	Vertical

#### Final Data List

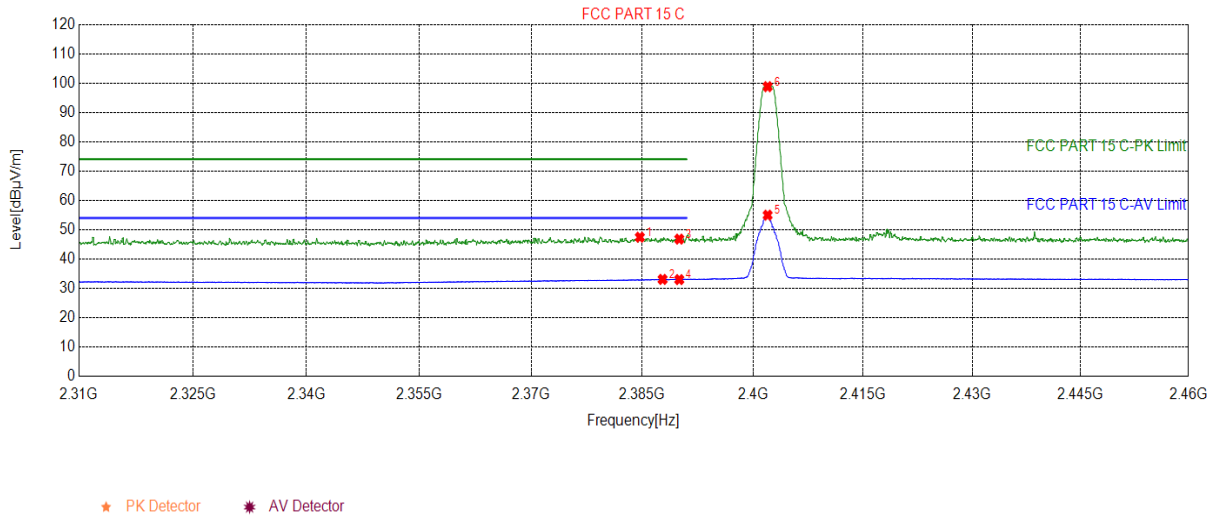


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BLE 2M\_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.66	47.43	9.46	74.00	26.57	234	123	Horizontal
2	2387.73	33.05	9.54	54.00	20.95	259	321	Horizontal
3	2390.00	46.79	9.60	74.00	27.21	275	258	Horizontal
4	2390.00	32.98	9.60	54.00	21.02	159	169	Horizontal
5	2402.00	54.95	9.87	0.00	-54.95	210	147	Horizontal
6	2402.00	98.77	9.87	0.00	-98.77	223	191	Horizontal

Final Data List



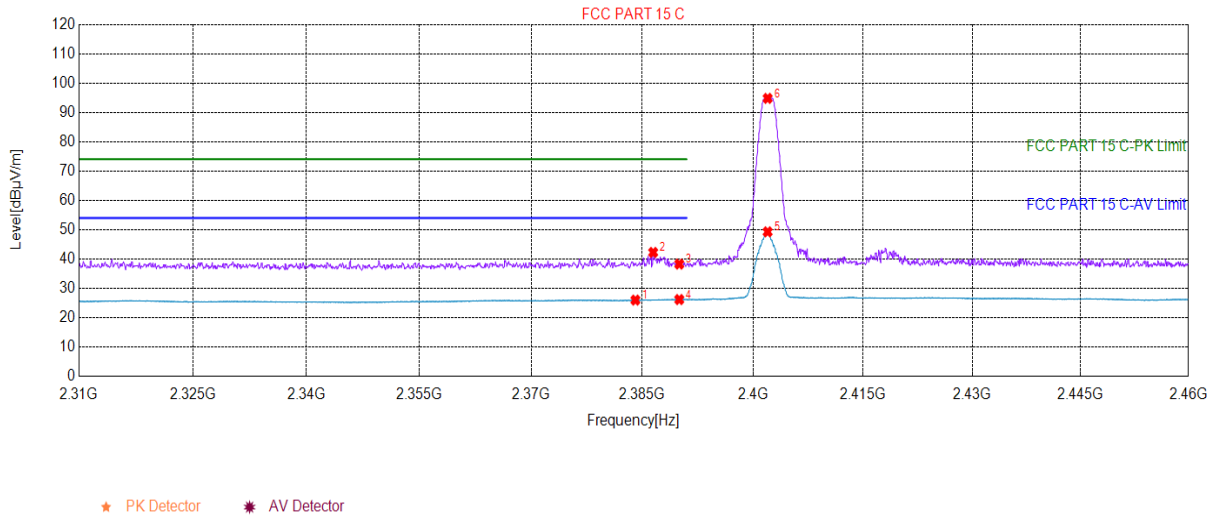
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BLE 2M\_Channel 0

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.06	25.99	9.44	54.00	28.01	159	159	Vertical
2	2386.46	42.24	9.51	74.00	31.76	242	138	Vertical
3	2390.00	38.26	9.60	74.00	35.74	234	29	Vertical
4	2390.00	26.18	9.60	54.00	27.82	205	96	Vertical
5	2402.00	49.26	9.87	0.00	-49.26	211	37	Vertical
6	2402.00	94.77	9.87	0.00	-94.77	239	214	Vertical

Final Data List

Final Data List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.06	25.99	9.44	54.00	28.01	159	159	Vertical
2	2386.46	42.24	9.51	74.00	31.76	242	138	Vertical
3	2390.00	38.26	9.60	74.00	35.74	234	29	Vertical
4	2390.00	26.18	9.60	54.00	27.82	205	96	Vertical
5	2402.00	49.26	9.87	0.00	-49.26	211	37	Vertical
6	2402.00	94.77	9.87	0.00	-94.77	239	214	Vertical



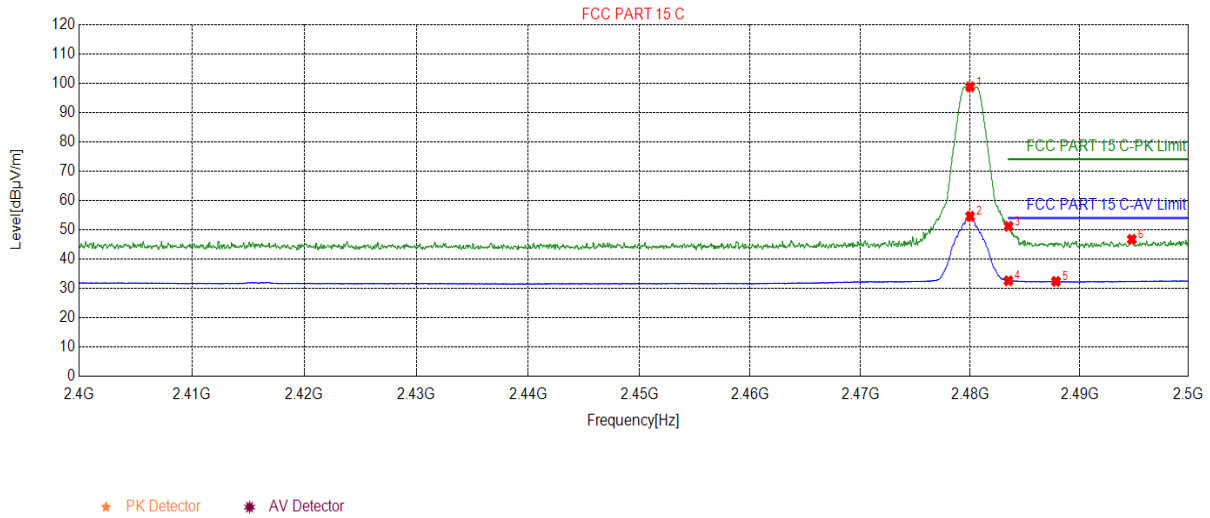
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BLE 2M\_Channel 39

Test Graph



Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	98.72	8.47	0.00	-98.72	158	147	Horizontal
2	2480.00	54.55	8.47	0.00	-54.55	164	158	Horizontal
3	2483.50	51.14	8.48	74.00	22.86	173	169	Horizontal
4	2483.50	32.58	8.48	54.00	21.42	210	91	Horizontal
5	2487.84	32.36	8.50	54.00	21.64	206	85	Horizontal
6	2494.79	46.71	8.61	74.00	27.29	234	219	Horizontal

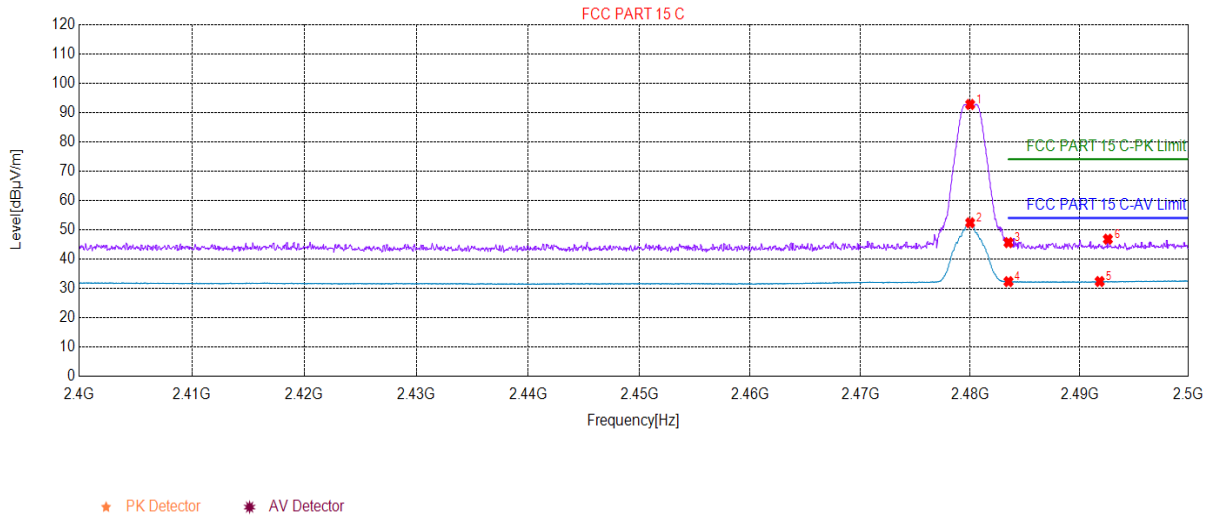
Final Data List



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**BLE 2M\_Channel 39**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	92.70	8.47	0.00	-92.70	158	147	Vertical
2	2480.00	52.34	8.47	0.00	-52.34	259	29	Vertical
3	2483.50	45.59	8.48	74.00	28.41	157	95	Vertical
4	2483.50	32.29	8.48	54.00	21.71	196	81	Vertical
5	2491.84	32.32	8.54	54.00	21.68	247	159	Vertical
6	2492.59	46.76	8.56	74.00	27.24	174	231	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.

The End



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