

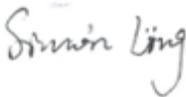
# FCC TEST REPORT

**Application No.:** AR/2021/50004  
**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.:** 21081111RG  
**Trade Mark:** XIAOMI  
**FCC ID:** 2AFZZ11RG  
**Standards:** 47 CFR FCC Part 2, Subpart J  
 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2021/6/10  
**Date of Test:** 2021/6/29 to 2021/7/19  
**Date of Issue:** 2021/7/23

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

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

Authorized Signature :



Simon Ling  
Wireless Laboratory Manager



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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021/7/23		Original

Authorized for issue by:		
Prepared By		 _____ (Leah Chen) / Engineer
Checked By		 _____ (Daniel Wang) /Reviewer



## 2 Test Summary

Test Item	Test Requirement	Test Method	Test Result	Result
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	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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## Contents

1	Version .....	2
2	Test Summary .....	3
3	General Information .....	5
3.1	Details of Client.....	5
3.2	Test Location .....	5
3.3	Test Facility .....	6
3.4	General Description of EUT .....	7
3.5	Test Environment.....	8
3.6	Description of Support Units .....	8
4	Test results and Measurement Data.....	9
4.1	Antenna Requirement .....	9
4.2	AC Power Line Conducted Emissions.....	10
4.3	Duty Cycle.....	14
4.4	Conducted Output Power .....	15
4.5	DTS (6 dB) Bandwidth .....	16
4.6	Power Spectral Density.....	17
4.7	Band-edge for RF Conducted Emissions .....	18
4.8	RF Conducted Spurious Emissions.....	19
4.9	Radiated Spurious Emissions .....	20
4.10	Restricted bands around fundamental frequency.....	23
5	Measurement Uncertainty (95% confidence levels, k=2).....	25
6	Equipment List.....	26
7	Photographs - EUT Constructional Details .....	28



### 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 (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:

#### 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.



### 3.4 General Description of EUT

EUT Description:	Mobile Phone
Model No.:	21081111RG
Trade Mark:	XIAOMI
Hardware Version:	P2
Software Version:	MIUI 12.5
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
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	PIFA
Antenna Gain:	-2.9dBi

**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

### 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 -2.9dBi.</p>	



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## 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBUV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	* Decreases with the logarithm of the frequency.		
Test Procedure:	<ol style="list-style-type: none"> <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>



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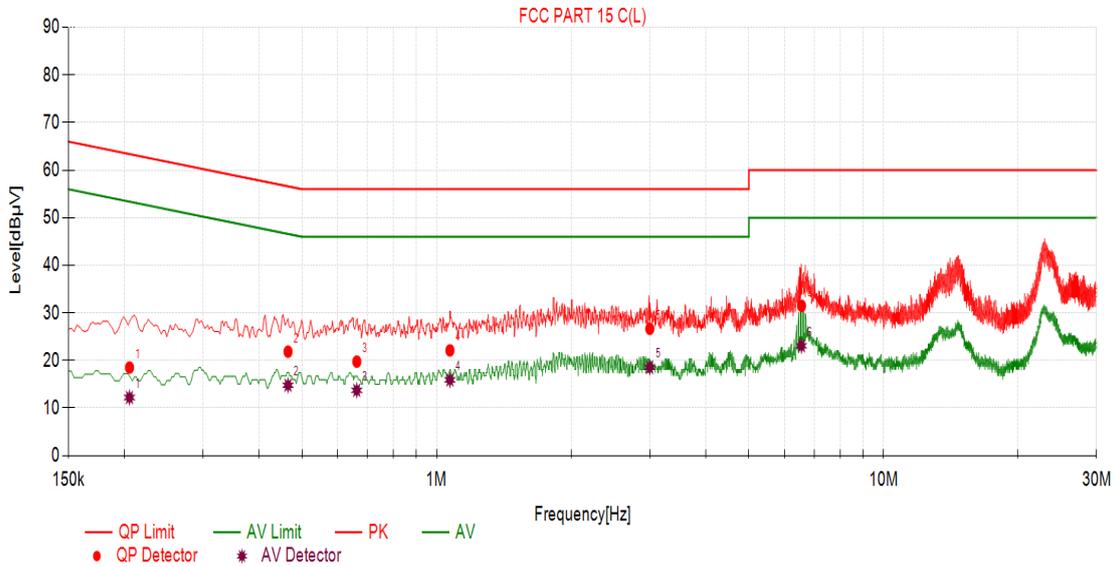
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### Measurement Data

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:



### Test Graph

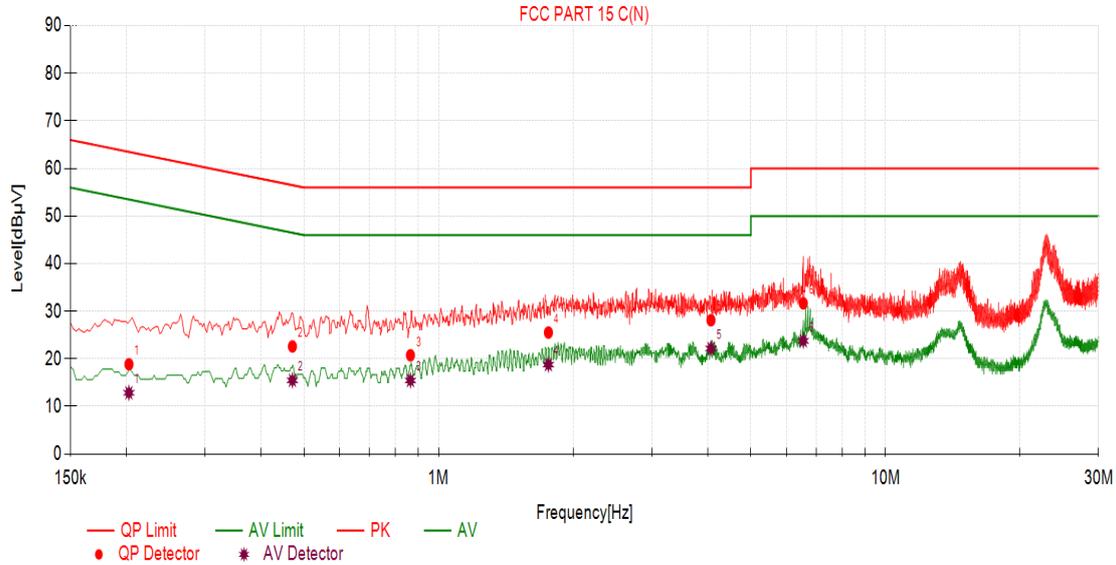
Final Data List									
NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2055	10.10	18.53	63.38	44.85	12.22	53.38	41.16	PASS
2	0.4651	10.10	21.86	56.60	34.74	14.80	46.60	31.80	PASS
3	0.6629	10.10	19.77	56.00	36.23	13.73	46.00	32.27	PASS
4	1.0714	10.10	22.13	56.00	33.87	15.92	46.00	30.08	PASS
5	3.0006	10.10	26.66	56.00	29.34	18.56	46.00	27.44	PASS
6	6.5581	10.10	31.51	60.00	28.49	23.09	50.00	26.91	PASS



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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]	Verdict
1	0.2028	10.10	18.86	63.50	44.64	12.86	53.50	40.64	PASS
2	0.4709	10.10	22.61	56.50	33.89	15.49	46.50	31.01	PASS
3	0.8653	10.10	20.75	56.00	35.25	15.47	46.00	30.53	PASS
4	1.7615	10.10	25.53	56.00	30.47	18.79	46.00	27.21	PASS
5	4.0701	10.10	28.13	56.00	27.87	22.19	46.00	23.81	PASS
6	6.5522	10.10	31.67	60.00	28.33	23.79	50.00	26.21	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**



#### 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**



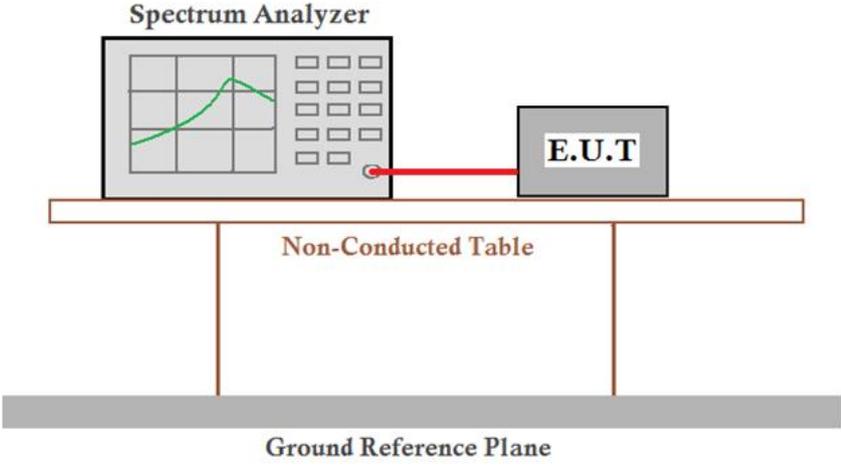
### 4.5 DTS (6 dB) Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2
Test Setup:	<p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p>
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**



## 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**



### 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**



### 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**



### 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	3MHz	RMS	
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).</li> </ol> </li> </ol>



	<p>Duty cycle = On time/100 milliseconds  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 + 20*log(Duty cycle)</p> <p>f. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>g. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>h. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>i. Test the EUT in the lowest channel, the middle channel, the Highest channel.</p> <p>j. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>k. Repeat above procedures until all frequencies measured was complete.</p>
<p>Exploratory Test Mode:</p>	<p>Transmitting with GFSK modulation.  Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Transmitting with GFSK modulation.  Pretest the EUT at Charge + Transmitting mode,  For below 1GHz part, through pre-scan, the worst case is the lowest channel.  Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details</p>
<p>Test Results:</p>	<p>Pass</p>

The detailed test data see: **Appendix**



### 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:			

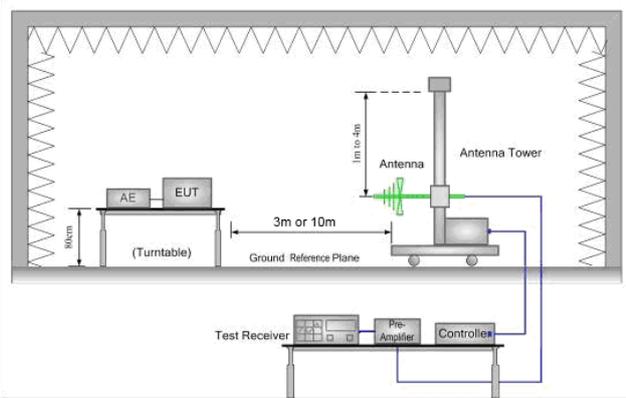


Figure 1. 30MHz to 1GHz

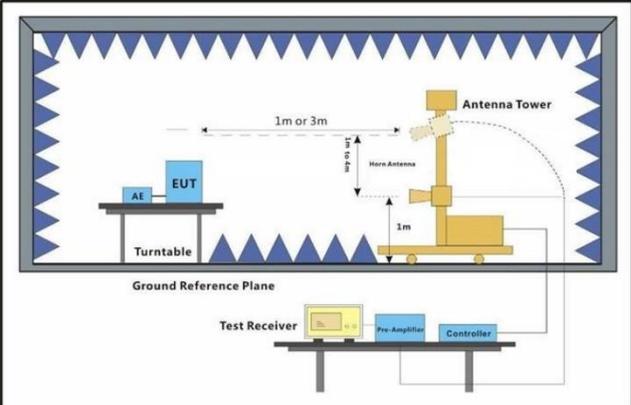


Figure 2. Above 1 GHz



Test Procedure:	<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**



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.35dB
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%
7	Frquency Stability	±0.2ppm
8	Conduction Emission	± 3.0dB (150kHz to 30MHz)
9	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)
Temperature and humidity meter	MingGao	T809	XAW01-01-04	2020/11/6	2021/11/5
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2020/10/26	2021/10/25
Spectrum Analyzer	ROHDE&SCHWARZ	FSU	100366	2021/6/8	2022/6/7
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	101146	2021/6/8	2022/6/7
temperature chamber	Votsch	VT4002	XAW01-18-01	2021/4/1	2022/3/31
Filter bank	Tonscend	JS0806-F	19C8060147	NCR	NCR
RF control unit	Tonscend	JS0806-1	NCR	NCR	NCR
Test Software	Tonscend	JS1120-3 (v2.6.77.0518)	NCR	NCR	NCR

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.



# Appendix



**DTS Bandwidth  
Test Result**

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.672	2401.667	2402.339	0.5	PASS
		2440	0.672	2439.667	2440.339	0.5	PASS
		2480	0.672	2479.667	2480.339	0.5	PASS
BLE_2M	Ant1	2402	1.185	2401.410	2402.595	0.5	PASS
		2440	1.190	2439.405	2440.595	0.5	PASS
		2480	1.245	2479.350	2480.595	0.5	PASS



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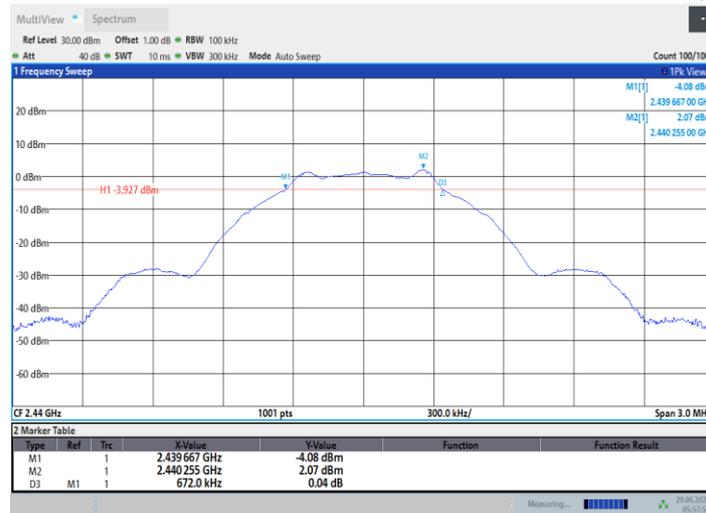
### Test Graphs

BLE\_1M\_Ant1\_2402



05:55:45 29.06.2021

BLE\_1M\_Ant1\_2440

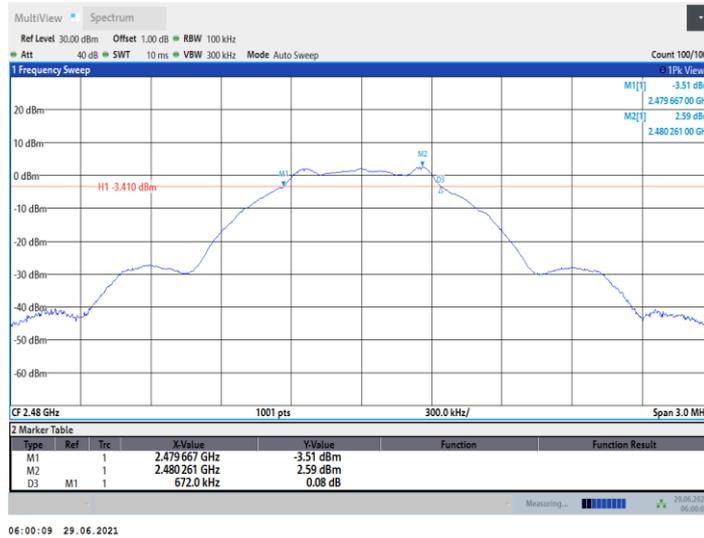


05:57:59 29.06.2021

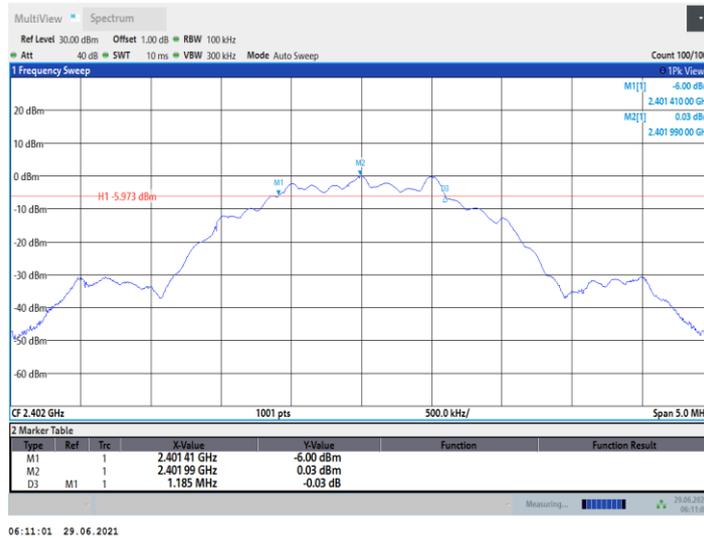


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### BLE\_1M\_Ant1\_2480



### BLE\_2M\_Ant1\_2402



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### BLE\_2M\_Ant1\_2440



06:06:53 29.06.2021

### BLE\_2M\_Ant1\_2480



06:03:30 29.06.2021



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## Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.027	2401.499	2402.526	---	PASS
		2440	1.025	2439.500	2440.525	---	PASS
		2480	1.025	2479.499	2480.523	---	PASS
BLE_2M	Ant1	2402	2.059	2400.981	2403.040	---	PASS
		2440	2.057	2438.982	2441.039	---	PASS
		2480	2.054	2478.977	2481.030	---	PASS



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### Test Graphs

BLE\_1M\_Ant1\_2402



BLE\_1M\_Ant1\_2440



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### BLE\_1M\_Ant1\_2480



### BLE\_2M\_Ant1\_2402



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### BLE\_2M\_Ant1\_2440



### BLE\_2M\_Ant1\_2480



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**Maximum conducted output power  
Test Result**

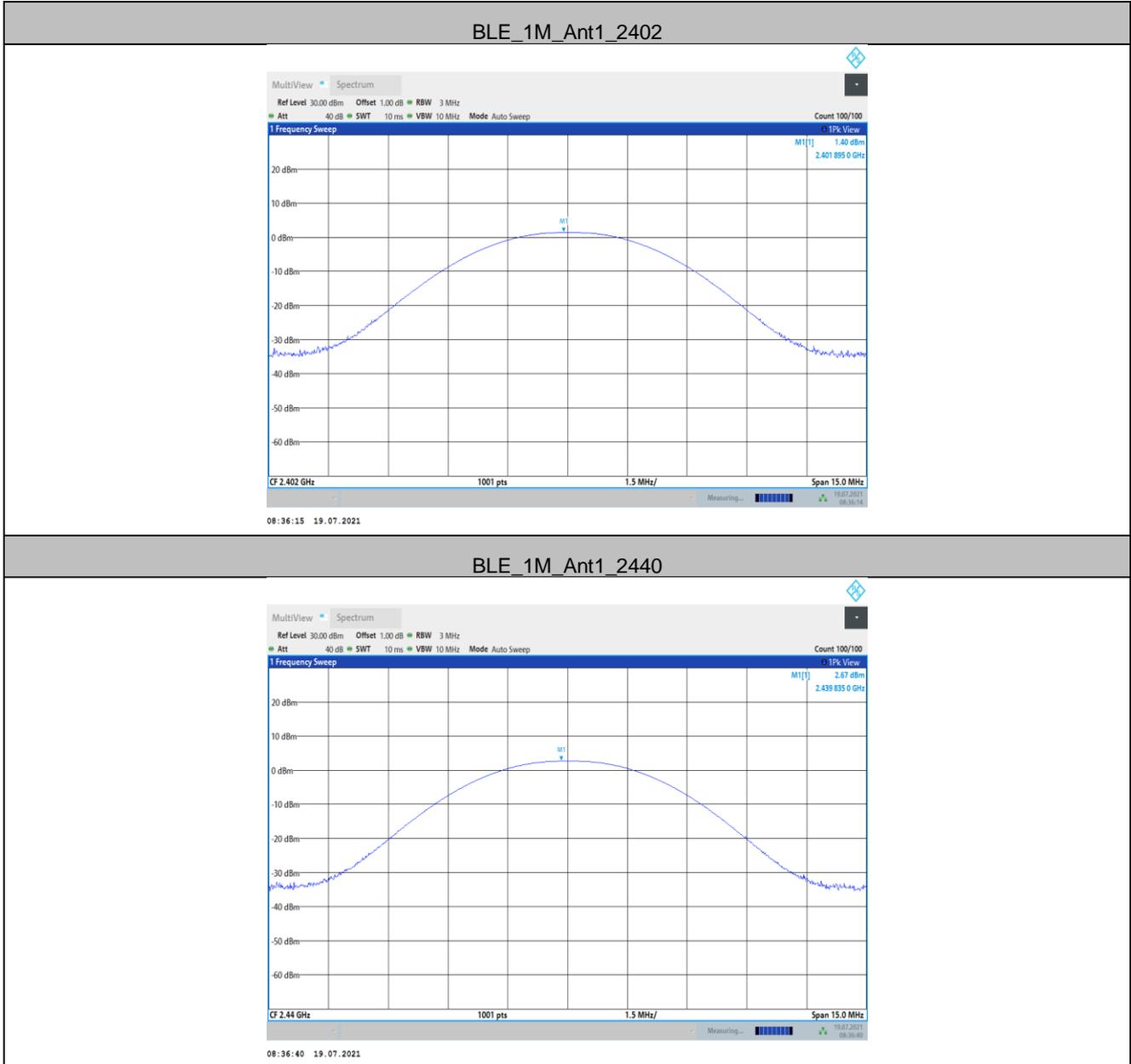
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	1.4	≤30	PASS
		2440	2.67	≤30	PASS
		2480	3.35	≤30	PASS
BLE_2M	Ant1	2402	1.55	≤30	PASS
		2440	2.71	≤30	PASS
		2480	3.48	≤30	PASS



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### Test Graphs

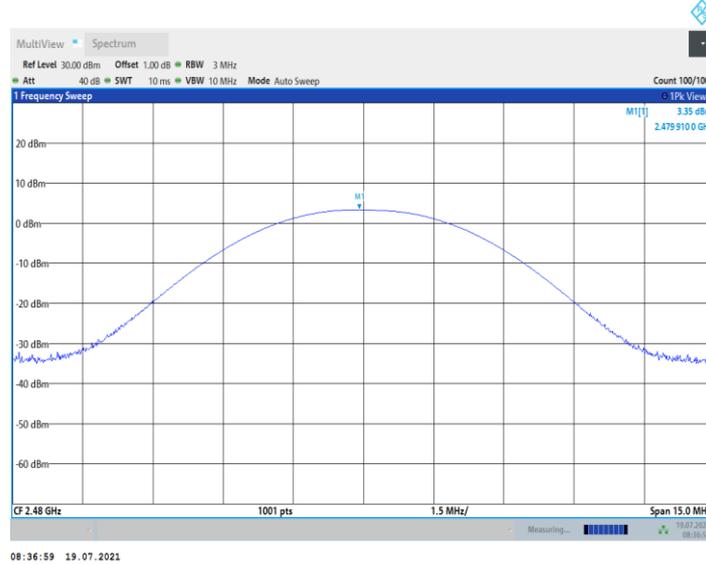


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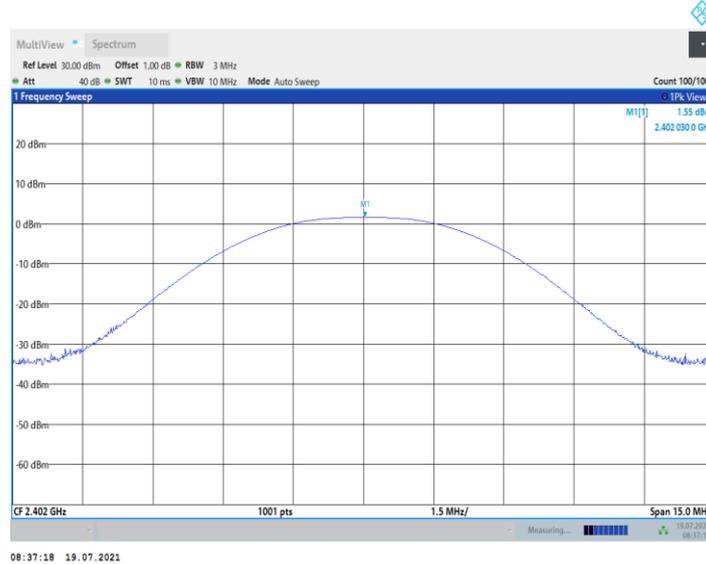
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### BLE\_1M\_Ant1\_2480

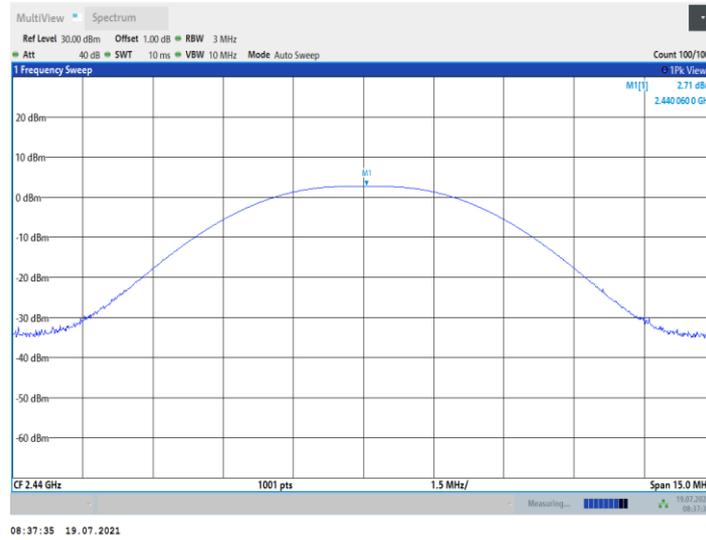


### BLE\_2M\_Ant1\_2402

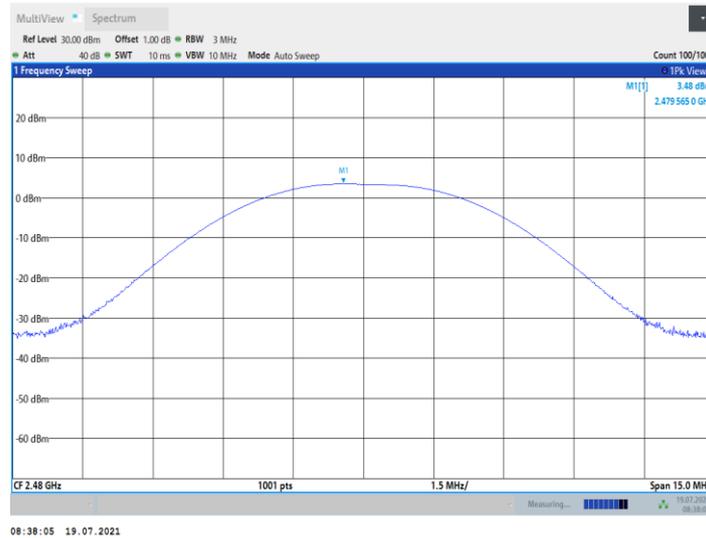


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### BLE\_2M\_Ant1\_2440



### BLE\_2M\_Ant1\_2480



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**Maximum power spectral density  
Test Result**

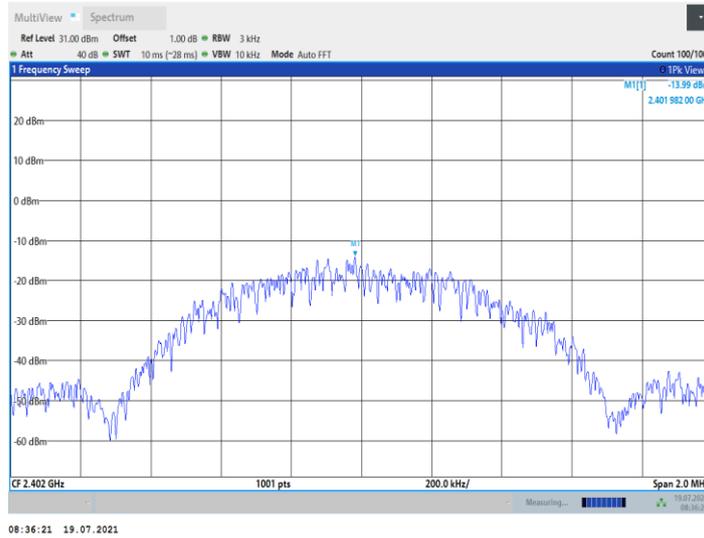
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.99	≤8	PASS
		2440	-12.7	≤8	PASS
		2480	-12.03	≤8	PASS
BLE_2M	Ant1	2402	-16	≤8	PASS
		2440	-14.83	≤8	PASS
		2480	-14.11	≤8	PASS



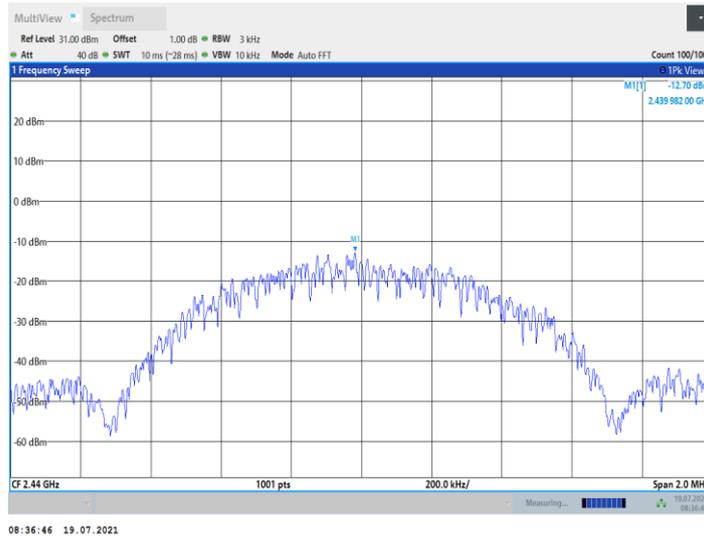
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### Test Graphs

BLE\_1M\_Ant1\_2402

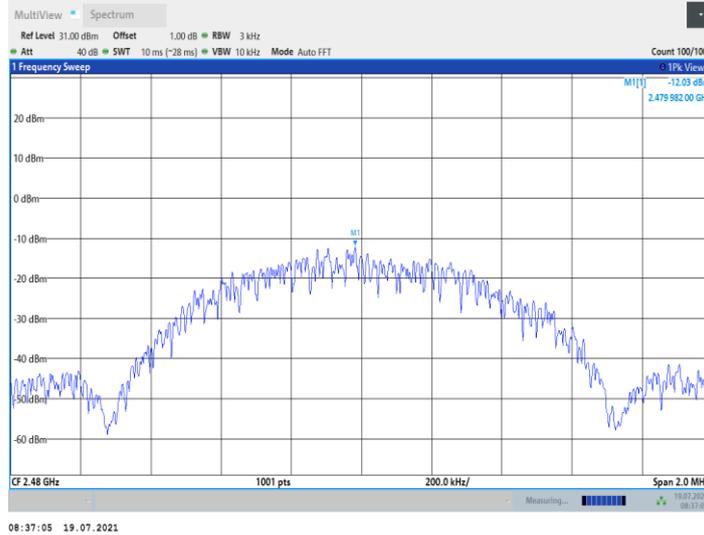


BLE\_1M\_Ant1\_2440

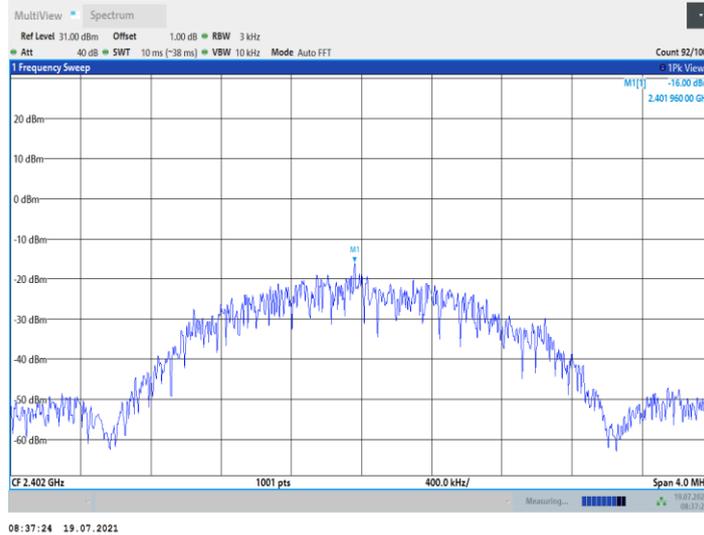


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### BLE\_1M\_Ant1\_2480



### BLE\_2M\_Ant1\_2402

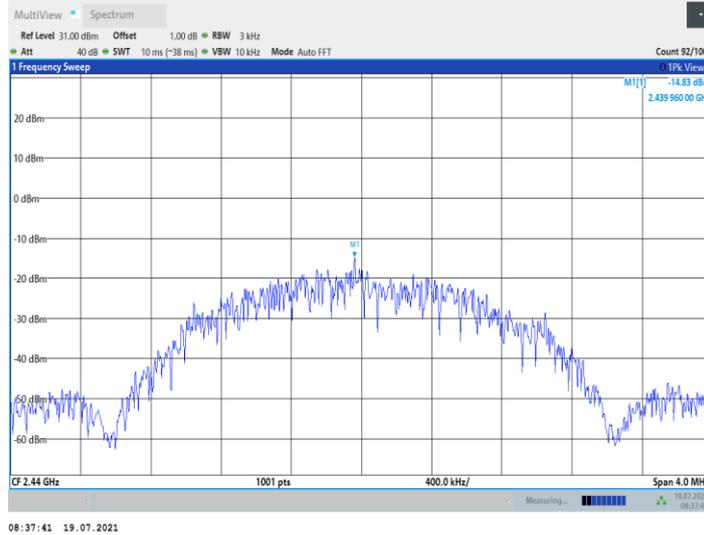


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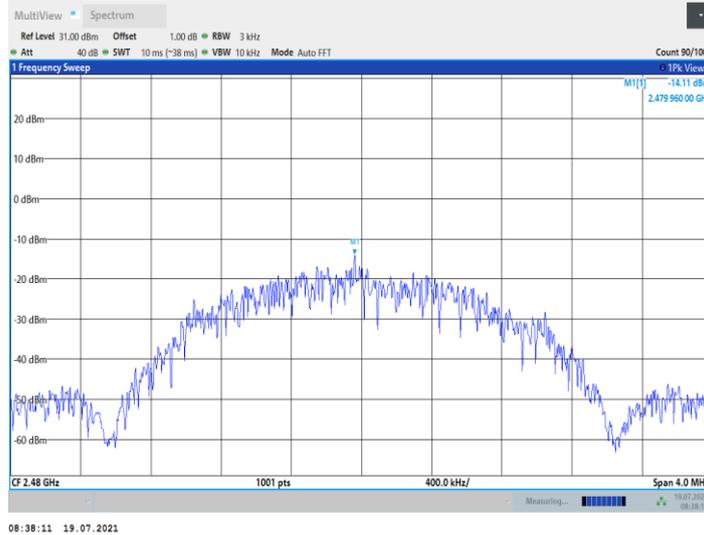
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### BLE\_2M\_Ant1\_2440



### BLE\_2M\_Ant1\_2480



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**Band edge measurements  
Test Result**

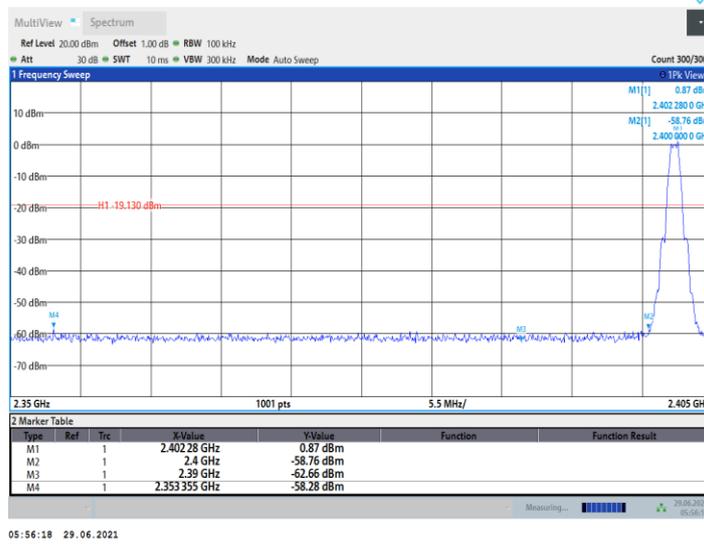
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	0.87	-58.28	<=-19.13	PASS
		High	2480	2.67	-59.01	<=-17.33	PASS
BLE_2M	Ant1	Low	2402	0.02	-31.38	<=-19.98	PASS
		High	2480	1.97	-57.24	<=-18.03	PASS



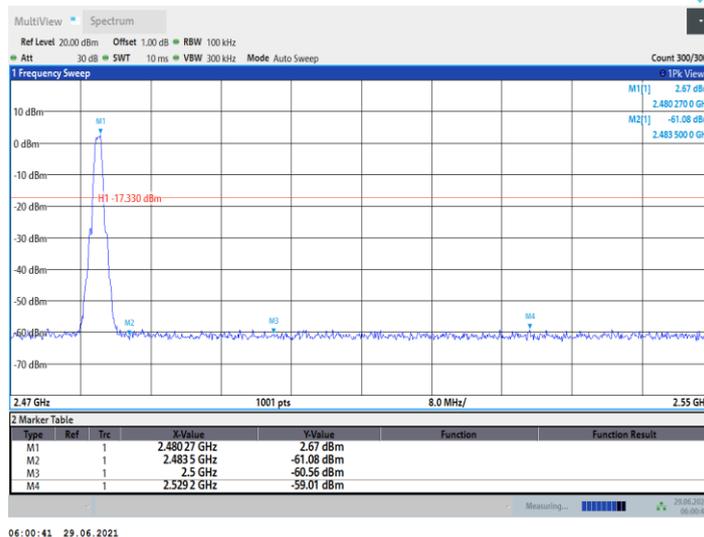
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### Test Graphs

BLE\_1M\_Ant1\_Low\_2402



BLE\_1M\_Ant1\_High\_2480

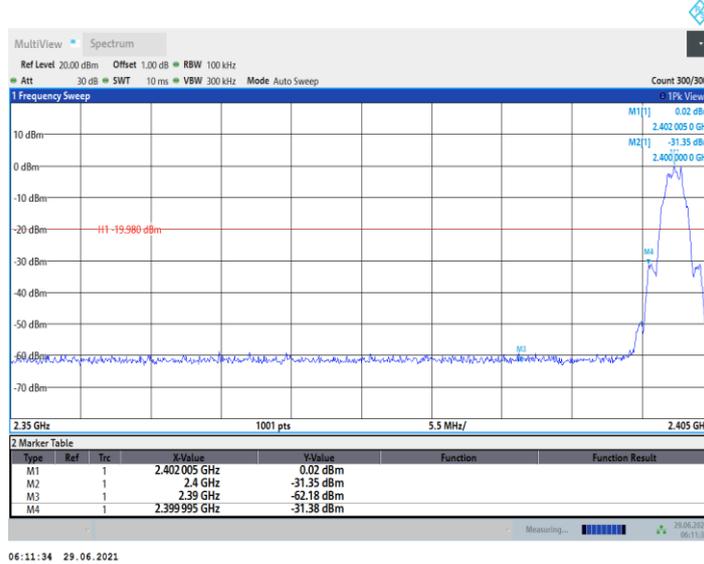


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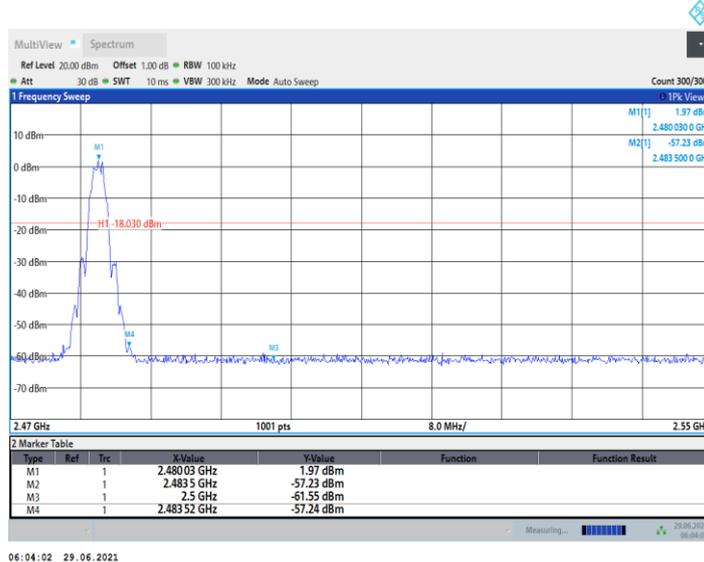
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### BLE\_2M\_Ant1\_Low\_2402



### BLE\_2M\_Ant1\_High\_2480



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**Conducted Spurious Emission Test Result**

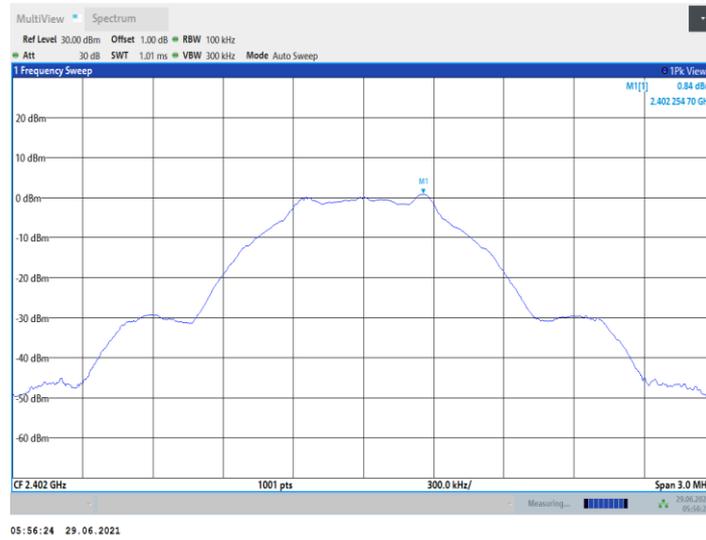
TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	0.84	0.84	---	PASS
			30~1000	0.84	-64.62	<=-19.16	PASS
			1000~26500	0.84	-55.81	<=-19.16	PASS
		2440	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-64.06	<=-17.98	PASS
			1000~26500	2.02	-55.37	<=-17.98	PASS
		2480	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-64.65	<=-17.4	PASS
			1000~26500	2.60	-55.92	<=-17.4	PASS
BLE_2M	Ant1	2402	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-64.67	<=-19.96	PASS
			1000~26500	0.04	-55.3	<=-19.96	PASS
		2440	Reference	1.27	1.27	---	PASS
			30~1000	1.27	-64.32	<=-18.73	PASS
			1000~26500	1.27	-55.87	<=-18.73	PASS
		2480	Reference	1.91	1.91	---	PASS
			30~1000	1.91	-64.63	<=-18.09	PASS
			1000~26500	1.91	-56.21	<=-18.09	PASS



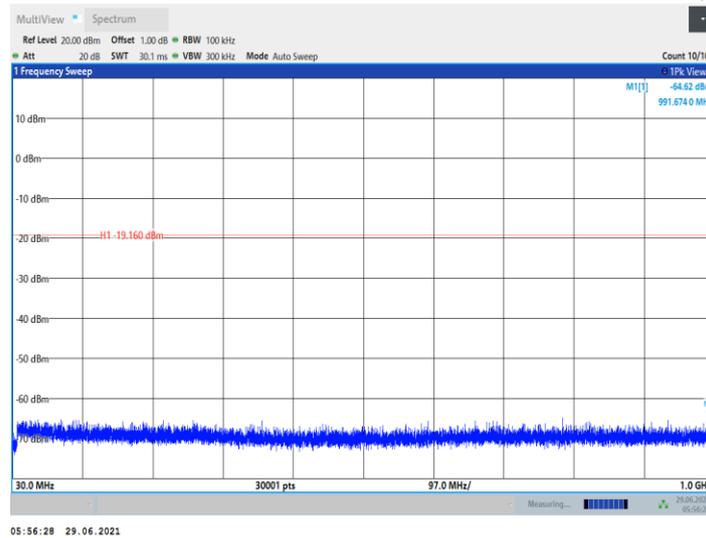
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### Test Graphs

BLE\_1M\_Ant1\_2402\_0~Reference



BLE\_1M\_Ant1\_2402\_30~1000

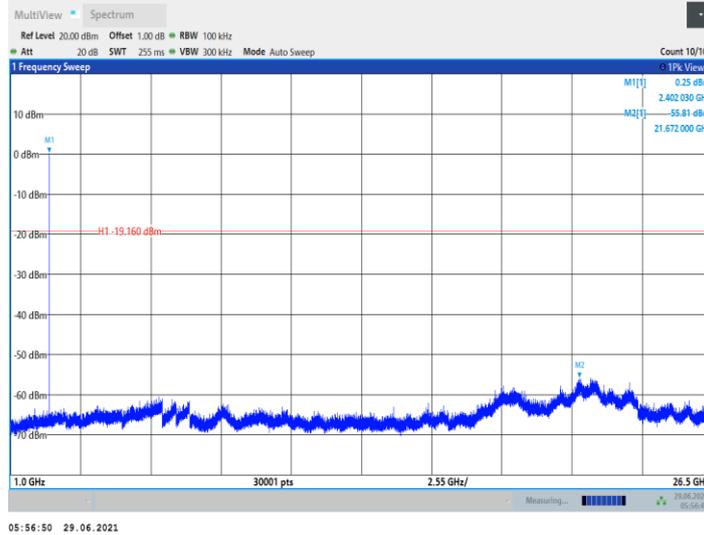


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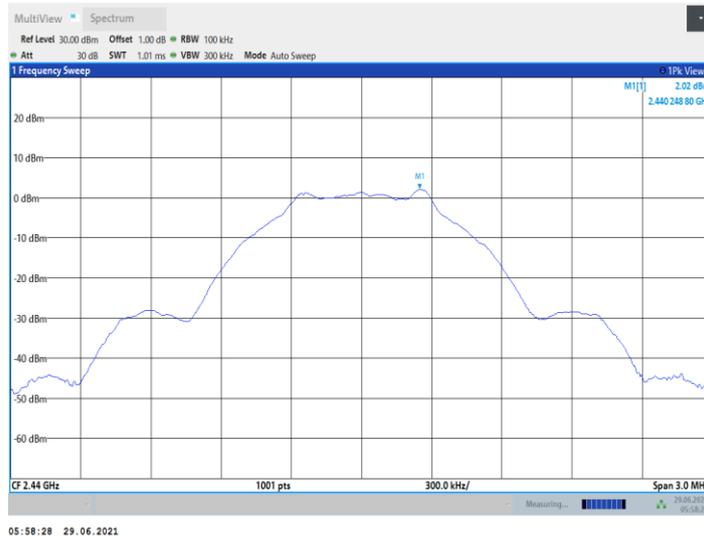
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### BLE\_1M\_Ant1\_2402\_1000~26500

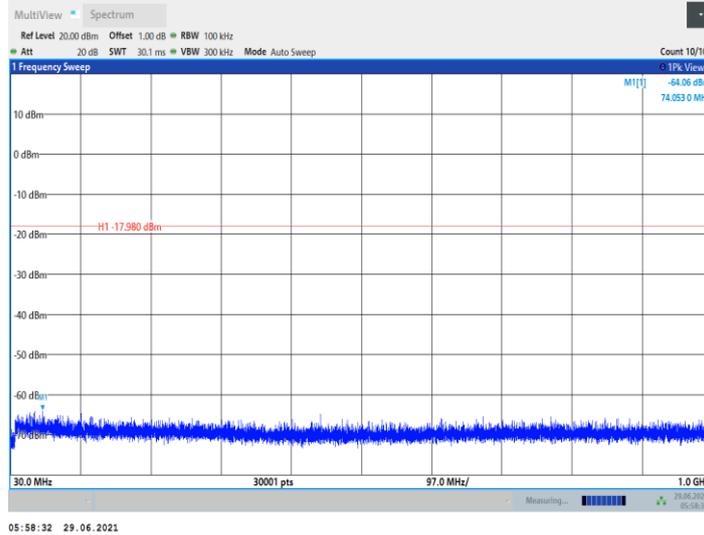


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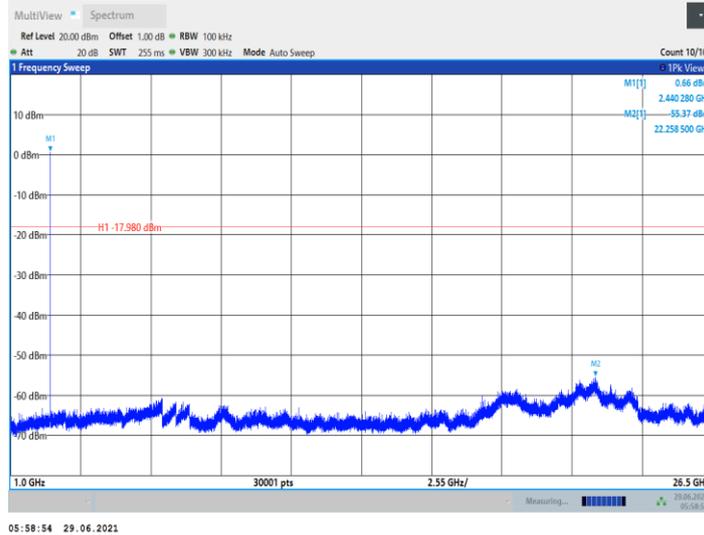


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### BLE\_1M\_Ant1\_2440\_30~1000



### BLE\_1M\_Ant1\_2440\_1000~26500

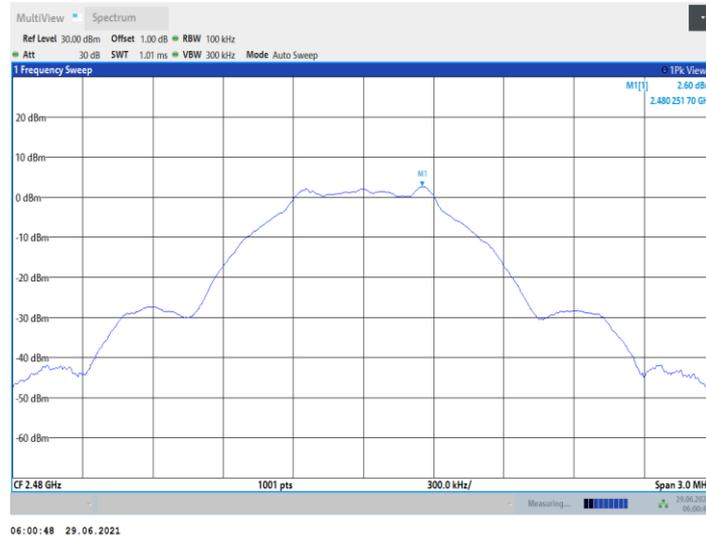


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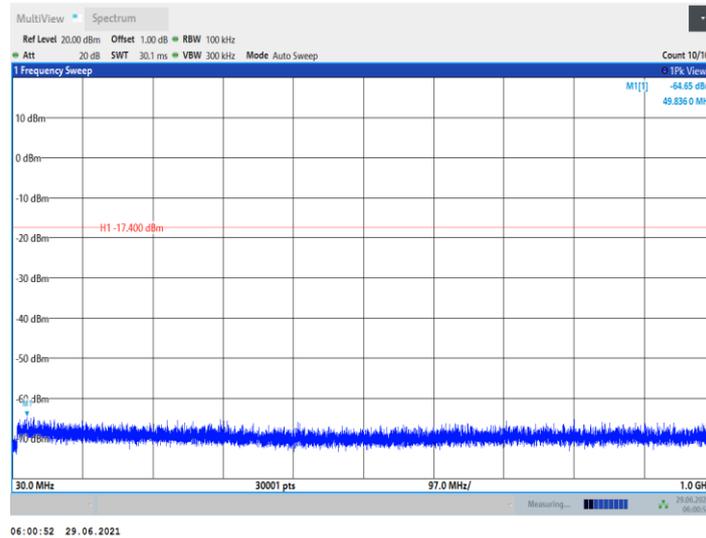
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### BLE\_1M\_Ant1\_2480\_0~Reference



### BLE\_1M\_Ant1\_2480\_30~1000

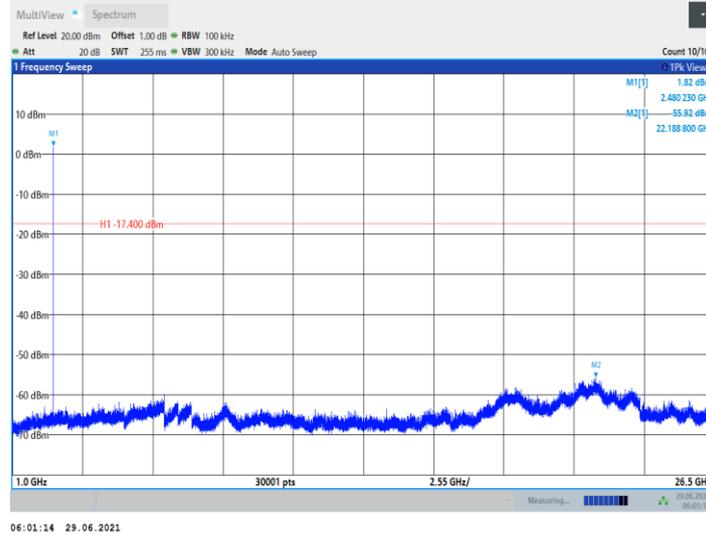


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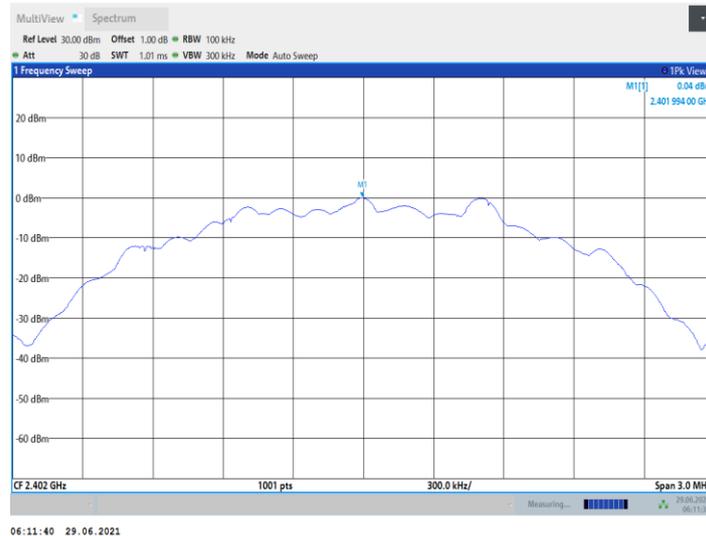
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### BLE\_1M\_Ant1\_2480\_1000~26500



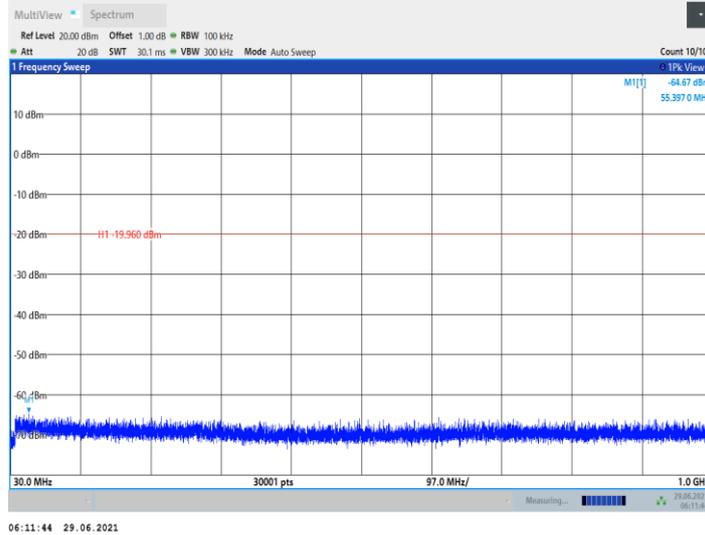
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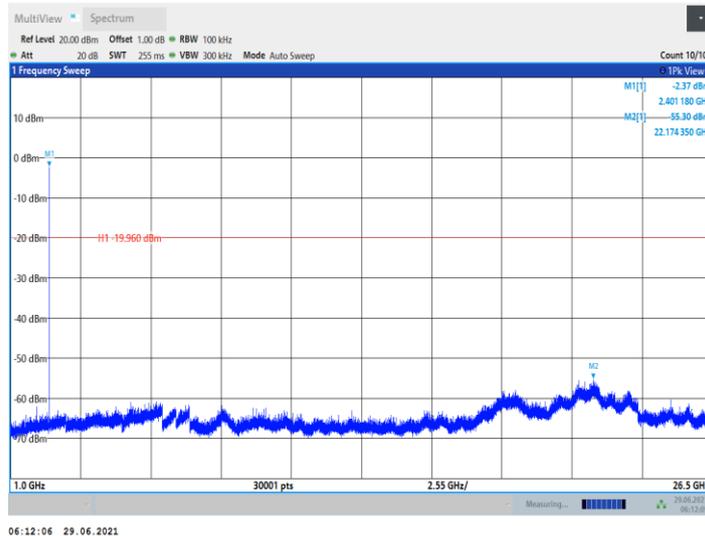
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### BLE\_2M\_Ant1\_2402\_30~1000



### BLE\_2M\_Ant1\_2402\_1000~26500

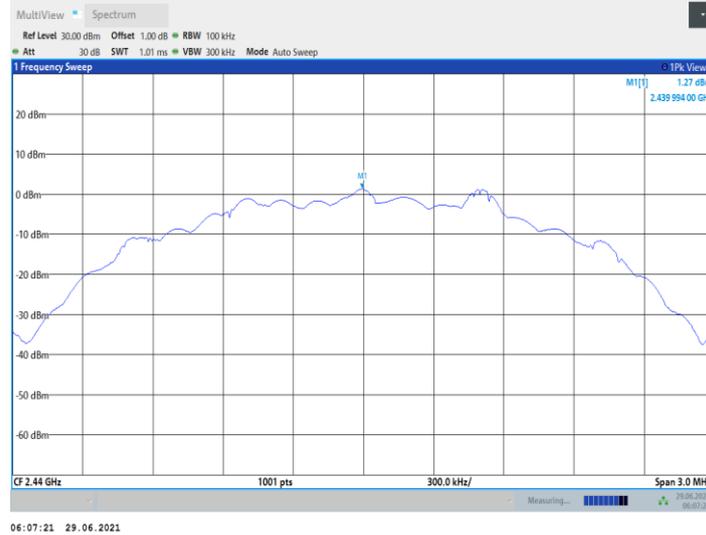


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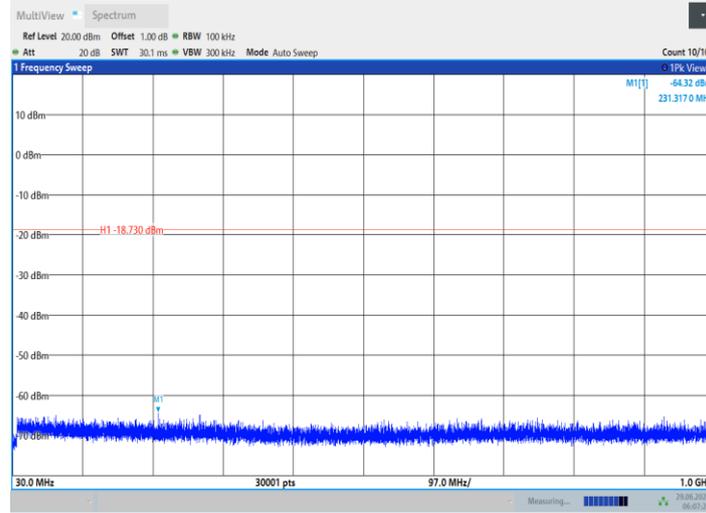
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### BLE\_2M\_Ant1\_2440\_0~Reference



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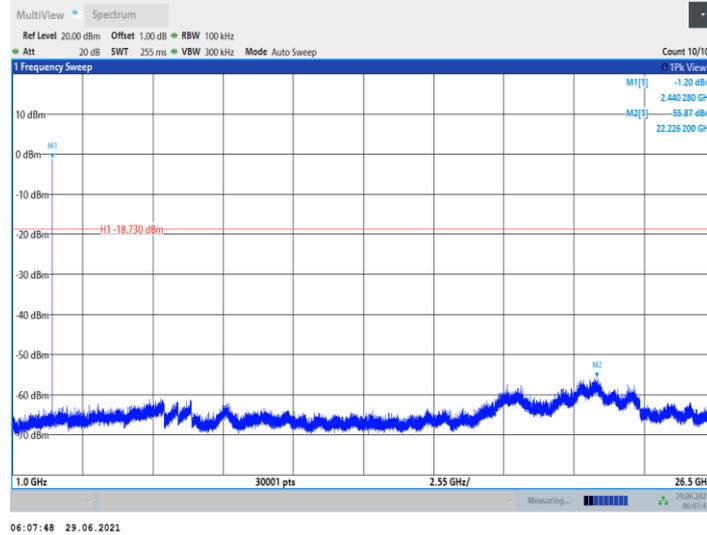


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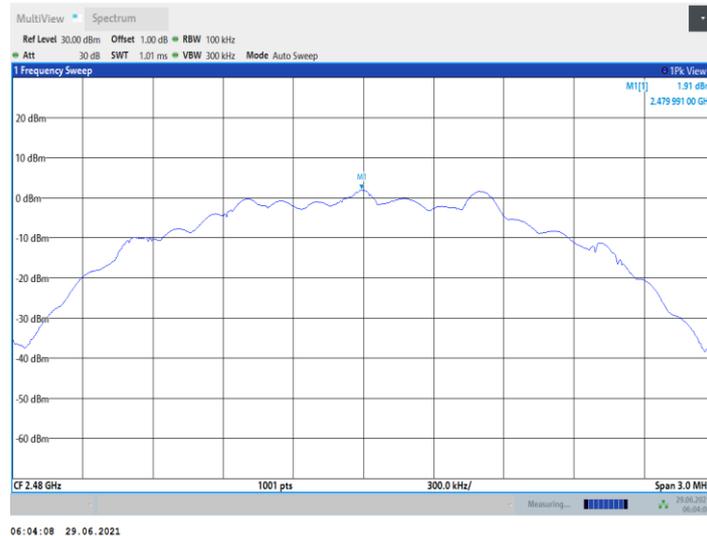


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### BLE\_2M\_Ant1\_2440\_1000~26500



### BLE\_2M\_Ant1\_2480\_0~Reference

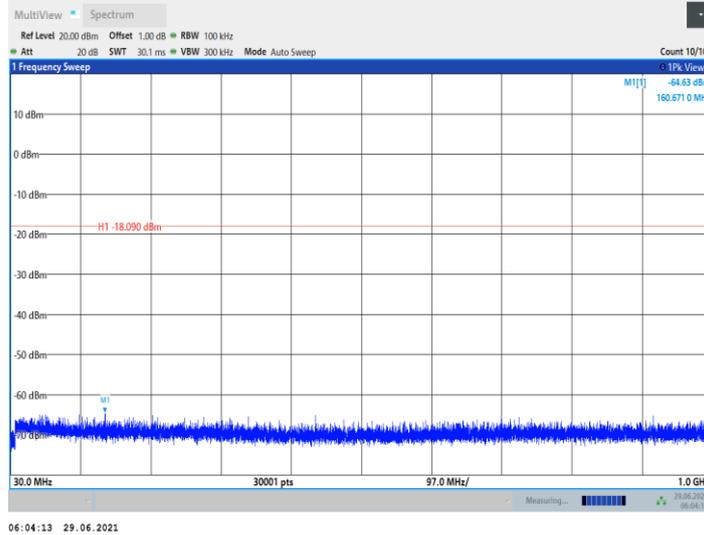


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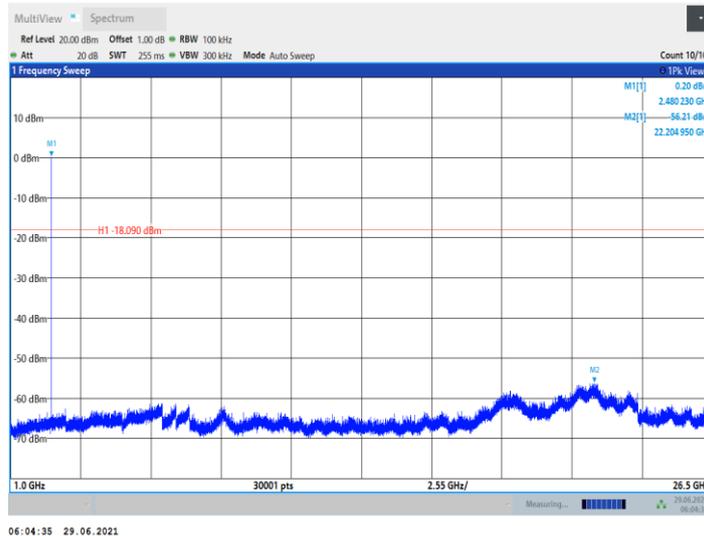
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### BLE\_2M\_Ant1\_2480\_30~1000



### BLE\_2M\_Ant1\_2480\_1000~26500



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**Duty Cycle  
Test Result**

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	2.13	2.50	0.8520	85.20	0.70	---	PASS
		2440	2.13	2.50	0.8520	85.20	0.70	---	PASS
		2480	2.13	2.50	0.8520	85.20	0.70	---	PASS
BLE_2M	Ant1	2402	1.07	1.88	0.5691	56.91	2.45	---	PASS
		2440	1.07	1.88	0.5691	56.91	2.45	---	PASS
		2480	1.07	1.88	0.5691	56.91	2.45	---	PASS

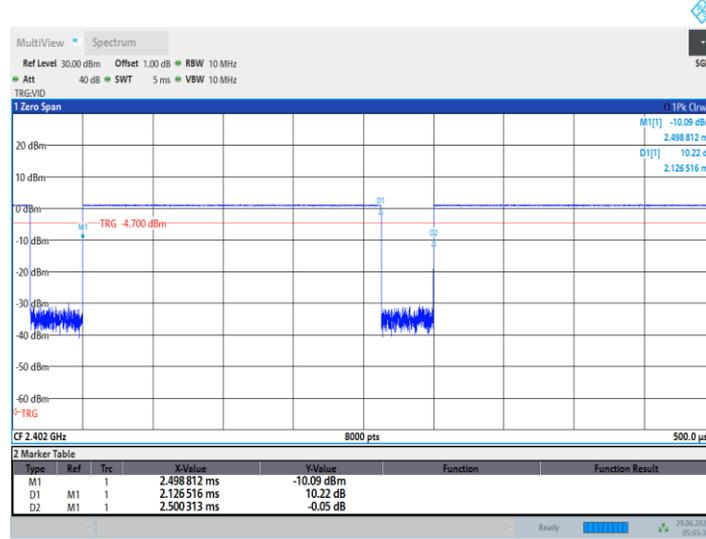


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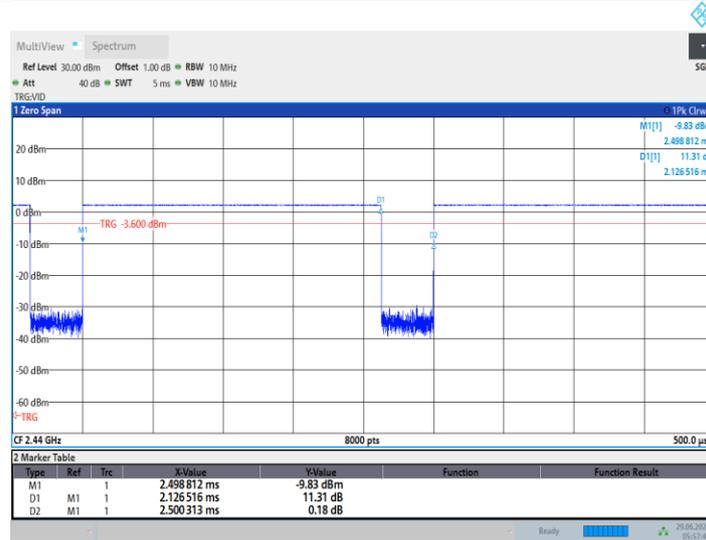
### Test Graphs

BLE\_1M\_Ant1\_2402



05:55:32 29.06.2021

BLE\_1M\_Ant1\_2440



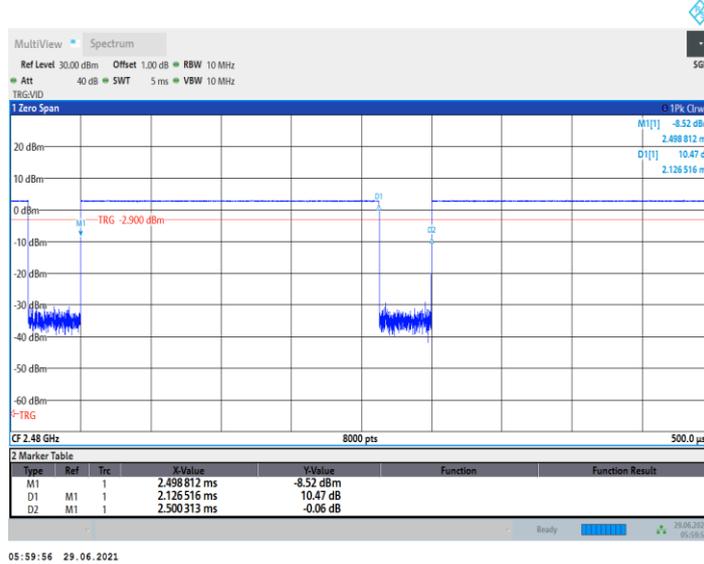
05:57:46 29.06.2021



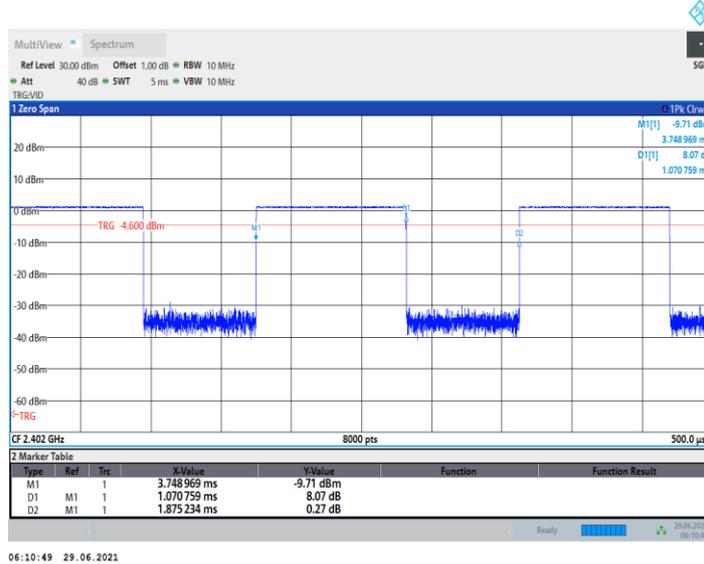
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### BLE\_1M\_Ant1\_2480



### BLE\_2M\_Ant1\_2402

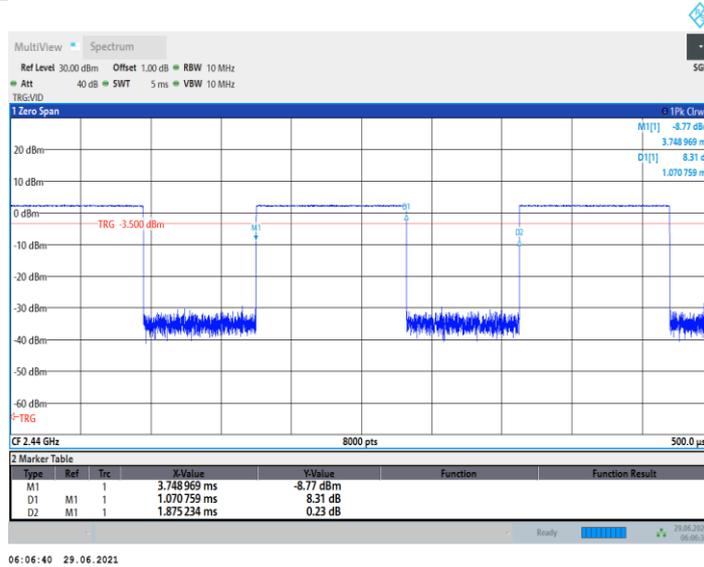


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### BLE\_2M\_Ant1\_2440



06:06:40 29.06.2021

### BLE\_2M\_Ant1\_2480

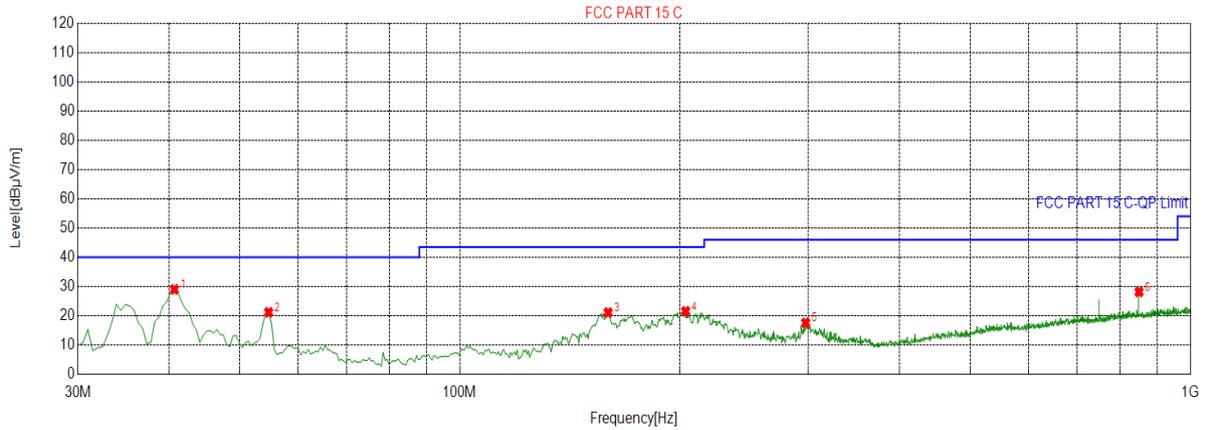


06:03:17 29.06.2021



### Radiated Spurious Emission

#### Radiated Emission below 1GHz Charge + Transmitting Test Graph



● QP Detector

#### Suspected List

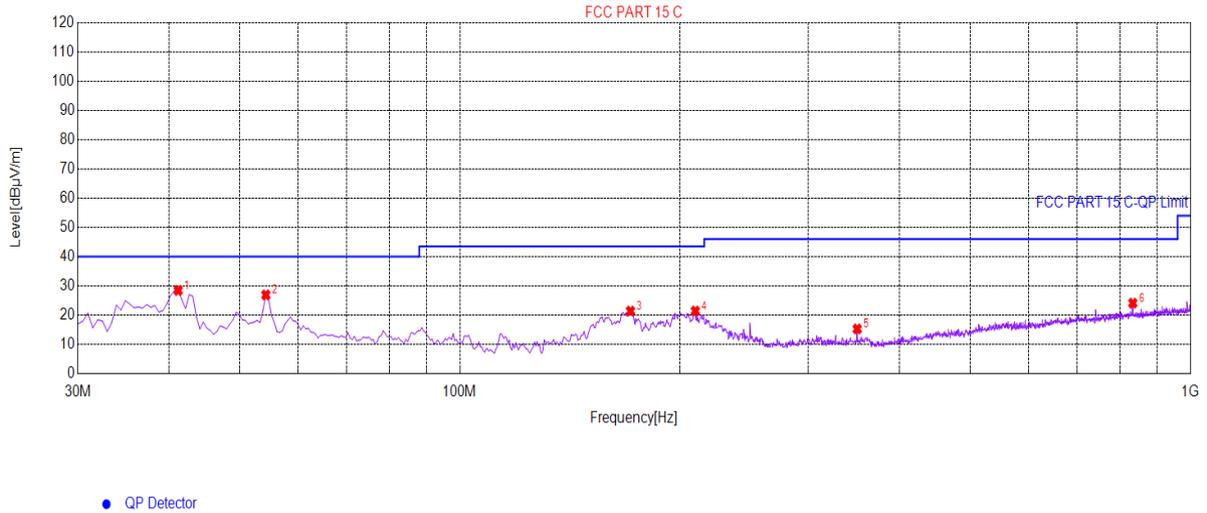
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.6753	29.00	-22.22	40.00	11.00	224	122	Horizontal
2	54.7474	21.18	-22.07	40.00	18.82	274	210	Horizontal
3	159.559	21.09	-25.55	43.50	22.41	265	235	Horizontal
4	203.716	21.50	-22.23	43.50	22.00	231	235	Horizontal
6	850.060	28.16	-8.55	46.00	17.84	241	355	Horizontal
5	297.368	17.57	-19.42	46.00	28.43	227	67	Horizontal

#### Final Data List



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### Test Graph



### Suspected List

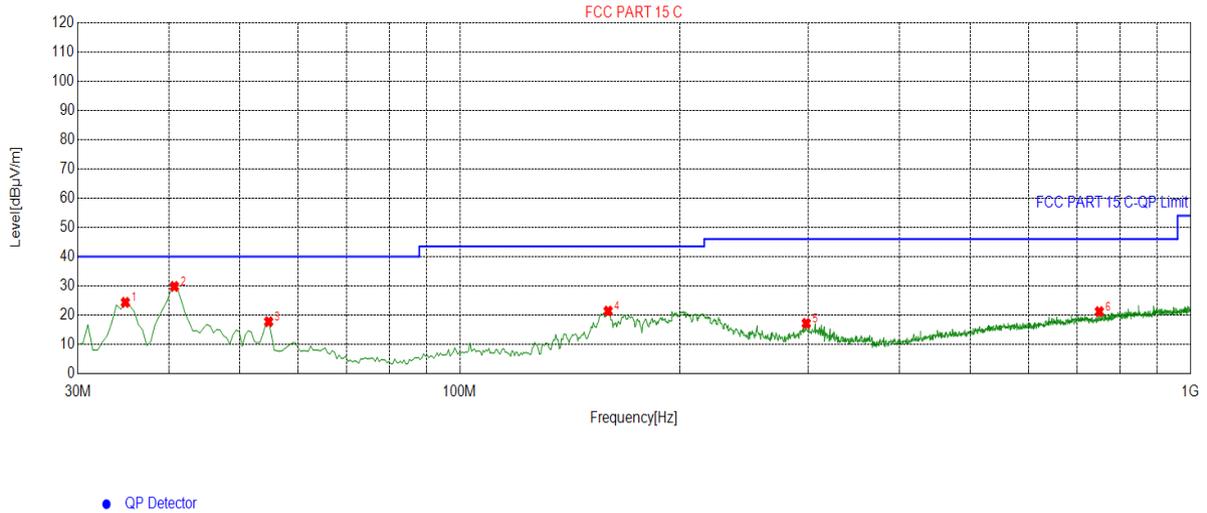
Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	41.1606	28.43	-22.13	40.00	11.57	174	8	Vertical
2	54.2621	26.90	-22.00	40.00	13.10	125	303	Vertical
3	171.205	21.39	-25.09	43.50	22.11	241	350	Vertical
4	210.025	21.41	-21.77	43.50	22.09	124	310	Vertical
5	349.774	15.28	-17.73	46.00	30.72	189	125	Vertical
6	833.561	24.09	-8.62	46.00	21.91	187	154	Vertical

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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	34.8524	24.35	-23.95	40.00	15.65	187	32	Horizontal
2	40.6753	29.81	-22.22	40.00	10.19	195	182	Horizontal
3	54.7474	17.75	-22.07	40.00	22.25	241	256	Horizontal
4	159.559	21.38	-25.55	43.50	22.12	189	260	Horizontal
5	297.853	17.20	-19.42	46.00	28.80	168	71	Horizontal
6	750.100	21.20	-9.64	46.00	24.80	187	302	Horizontal

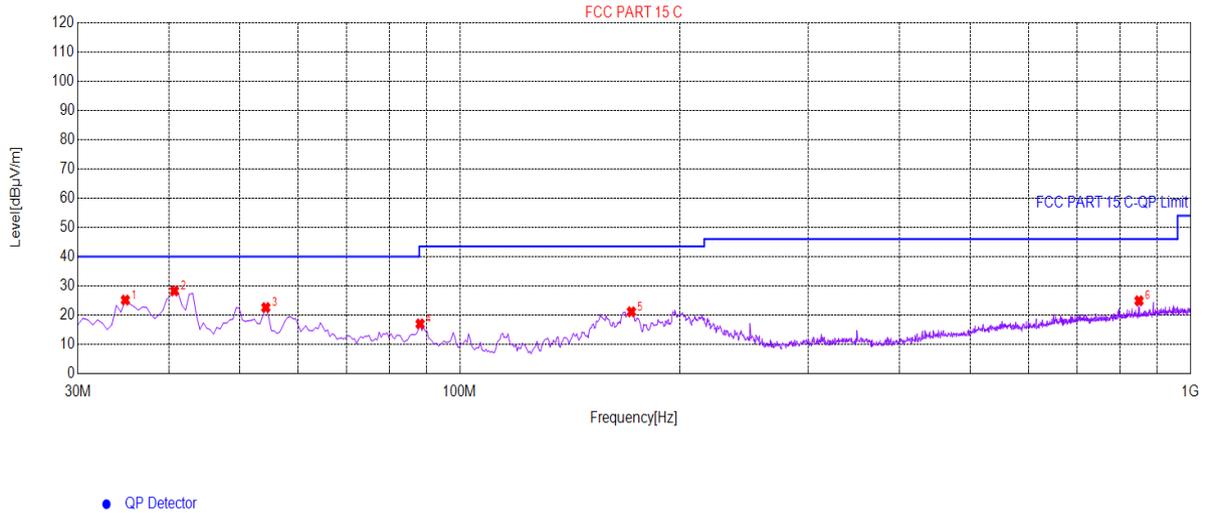
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### Test Graph



### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8524	25.15	-23.95	40.00	14.85	174	85	Vertical
2	40.6753	28.28	-22.22	40.00	11.72	198	331	Vertical
3	54.2621	22.59	-22.00	40.00	17.41	224	0	Vertical
4	88.2291	17.01	-24.99	43.50	26.49	187	146	Vertical
5	171.690	21.13	-25.05	43.50	22.37	196	339	Vertical
6	850.060	24.89	-8.55	46.00	21.11	176	150	Vertical

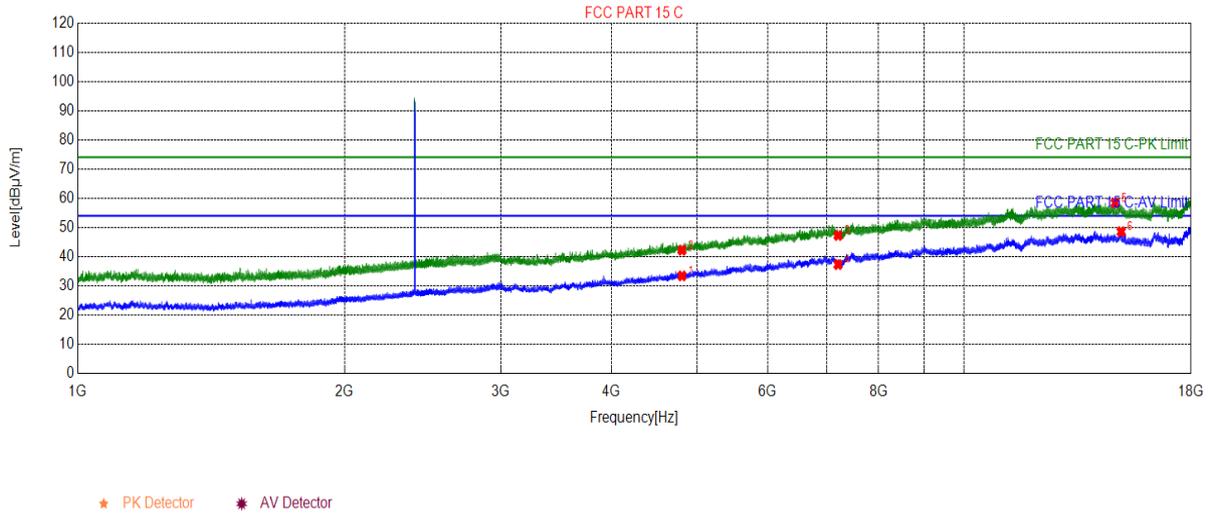
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**Transmitter Emission above 1GHz  
BLE\_1M\_Channel 0**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.00	33.41	-15.41	54.00	20.59	186	201	Horizontal
2	4804.00	42.19	-15.41	74.00	31.81	254	172	Horizontal
3	7206.00	47.25	-8.59	74.00	26.75	144	158	Horizontal
4	7206.00	37.29	-8.59	54.00	16.71	235	305	Horizontal
5	14799.4	58.38	3.32	74.00	15.62	200	274	Horizontal
6	15032.2	48.55	3.45	54.00	5.45	155	2	Horizontal

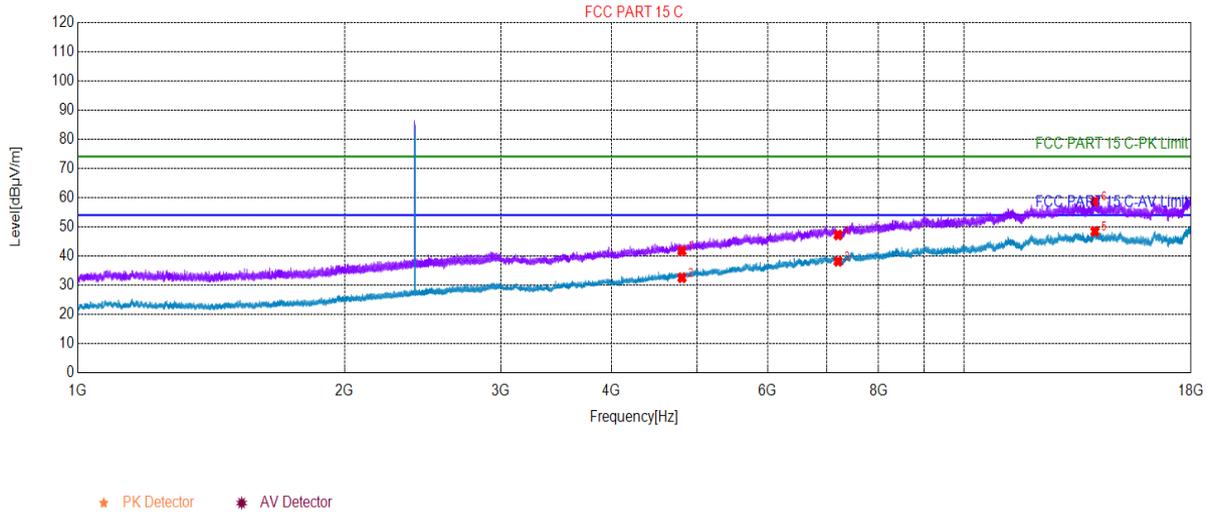
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### BLE\_1M\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.00	41.68	-15.41	74.00	32.32	263	94	Vertical
2	4804.00	32.53	-15.41	54.00	21.47	325	169	Vertical
3	7206.00	38.16	-8.59	54.00	15.84	128	210	Vertical
4	7206.00	47.18	-8.59	74.00	26.82	145	213	Vertical
5	14042.8	48.41	3.20	54.00	5.59	274	40	Vertical
6	14042.8	58.64	3.20	74.00	15.36	255	196	Vertical

#### Final Data List

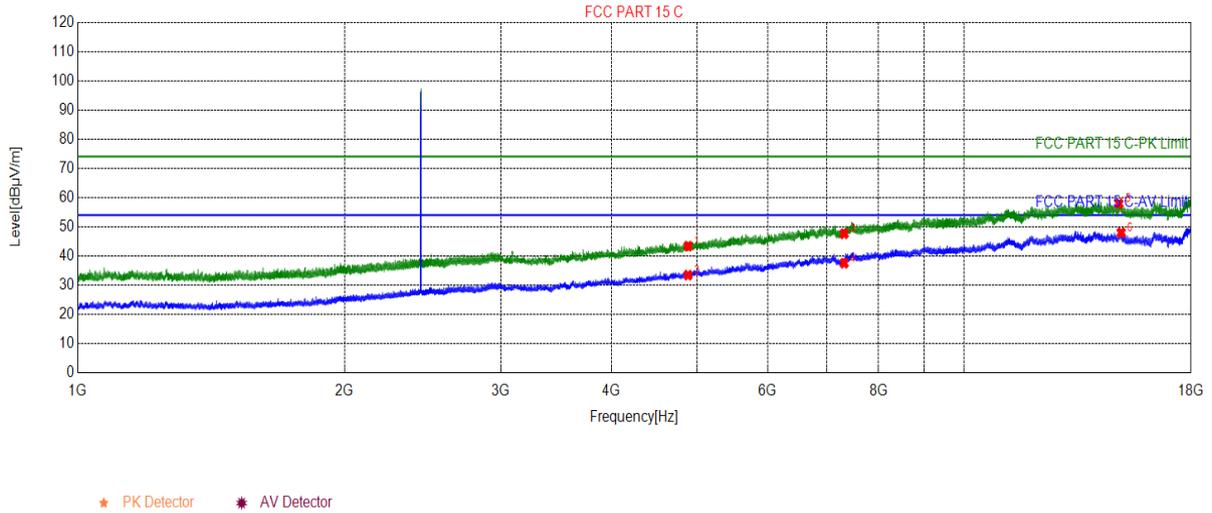


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### BLE\_1M\_Channel 19

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.00	43.34	-15.07	74.00	30.66	254	347	Horizontal
2	4880.00	33.43	-15.07	54.00	20.57	158	358	Horizontal
3	7320.00	47.61	-8.63	74.00	26.39	166	232	Horizontal
4	7320.00	37.51	-8.63	54.00	16.49	204	143	Horizontal
5	14945.2	57.89	2.98	74.00	16.11	211	58	Horizontal
6	15030.4	47.98	3.47	54.00	6.02	196	183	Horizontal

#### Final Data List

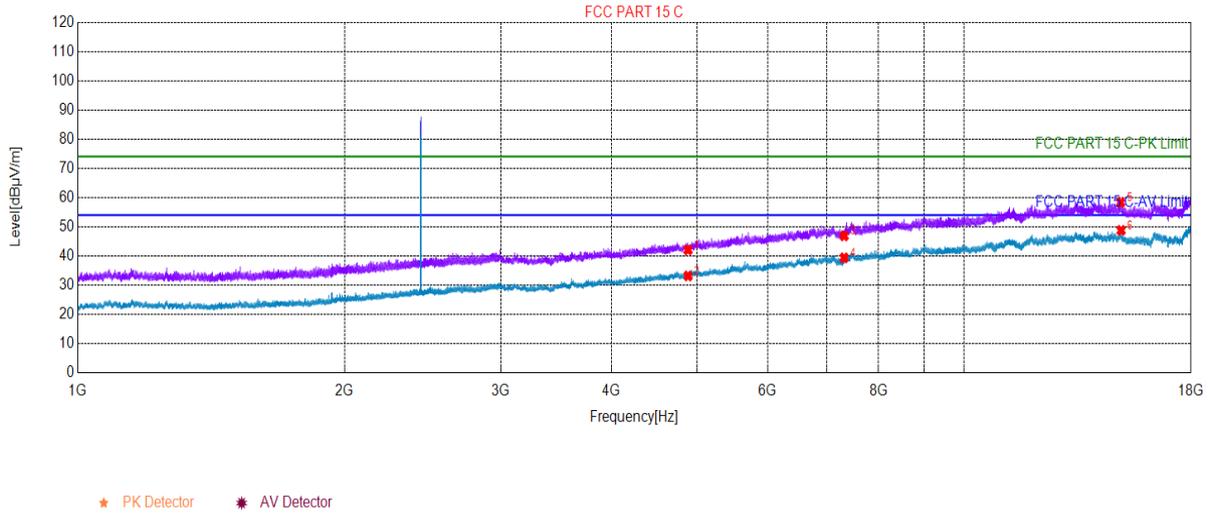


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### BLE\_1M\_Channel 19

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.00	42.05	-15.07	74.00	31.95	263	110	Vertical
2	4880.00	33.16	-15.07	54.00	20.84	325	23	Vertical
3	7320.00	46.87	-8.63	74.00	27.13	148	332	Vertical
4	7320.00	39.35	-8.63	54.00	14.65	266	170	Vertical
5	15010.6	58.31	3.66	74.00	15.69	245	332	Vertical
6	15028.6	48.76	3.49	54.00	5.24	289	125	Vertical

#### Final Data List



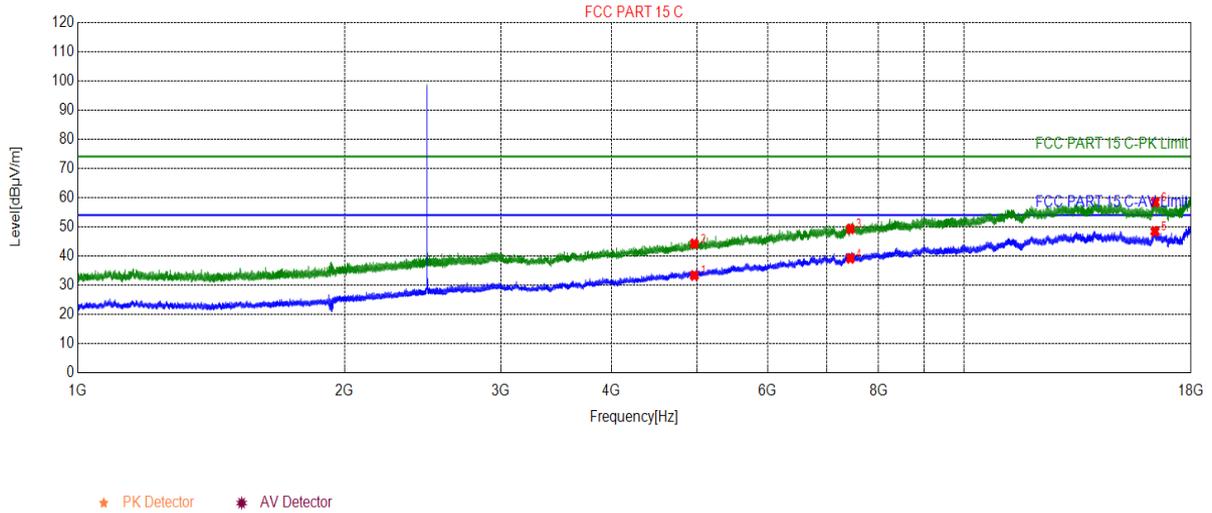
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### BLE\_1M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.00	33.30	-14.40	54.00	20.70	174	46	Horizontal
2	4960.00	44.17	-14.40	74.00	29.83	185	75	Horizontal
3	7440.00	49.26	-7.31	74.00	24.74	162	262	Horizontal
4	7440.00	39.17	-7.31	54.00	14.83	187	4	Horizontal
5	16408.7	48.42	1.36	54.00	5.58	195	218	Horizontal
6	16414.7	58.41	1.25	74.00	15.59	199	132	Horizontal

#### Final Data List



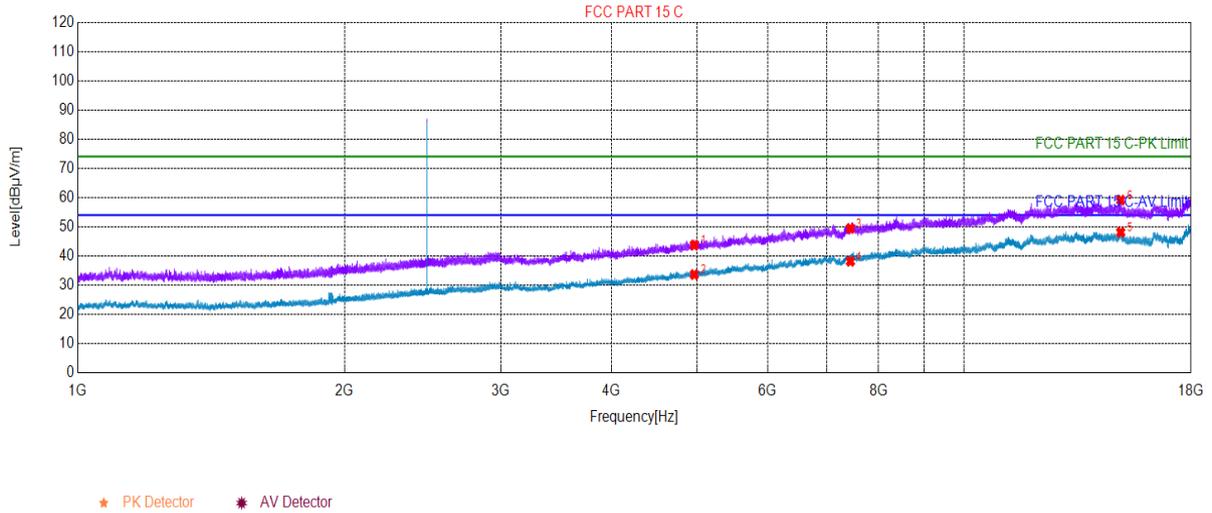
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### BLE\_1M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.00	43.72	-14.40	74.00	30.28	265	92	Vertical
2	4960.00	33.63	-14.40	54.00	20.37	254	118	Vertical
3	7440.00	49.43	-7.31	74.00	24.57	142	228	Vertical
4	7440.00	38.16	-7.31	54.00	15.84	325	287	Vertical
5	15011.8	48.09	3.65	54.00	5.91	289	199	Vertical
6	15015.4	59.12	3.61	74.00	14.88	255	63	Vertical

#### Final Data List



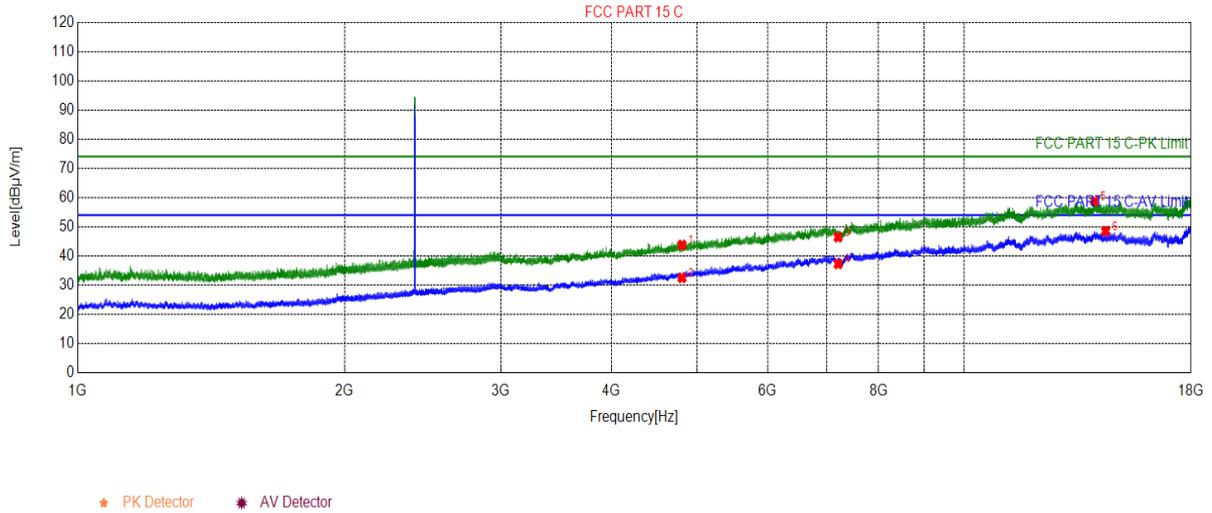
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### BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.00	43.76	-15.41	74.00	30.24	145	73	Horizontal
2	4804.00	32.53	-15.41	54.00	21.47	168	76	Horizontal
3	7206.00	46.43	-8.59	74.00	27.57	178	133	Horizontal
4	7206.00	37.27	-8.59	54.00	16.73	204	162	Horizontal
5	14033.2	58.73	3.06	74.00	15.27	166	234	Horizontal
6	14437.6	48.50	2.49	54.00	5.50	244	320	Horizontal

#### Final Data List



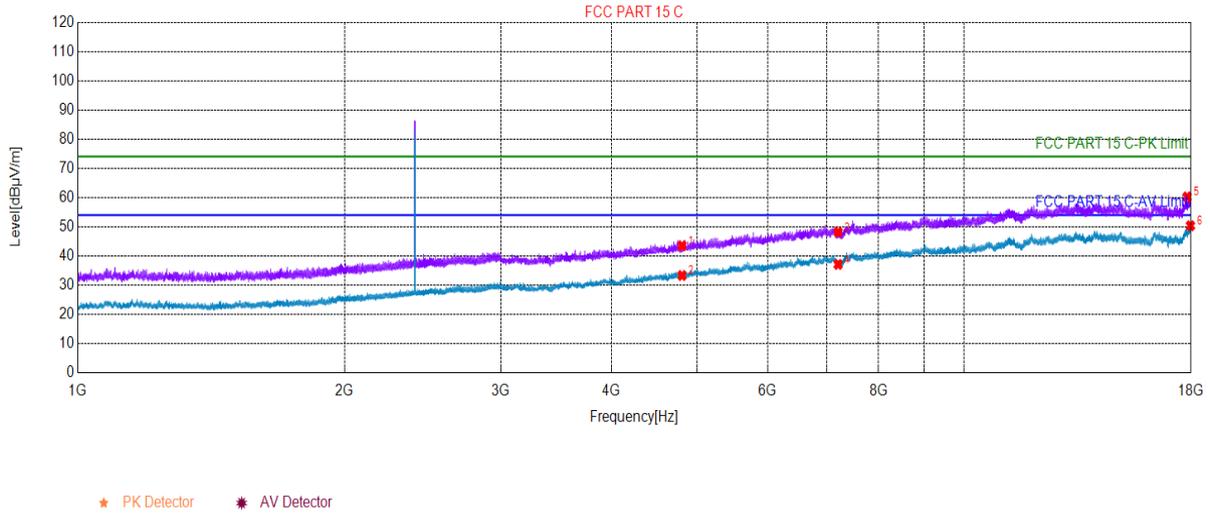
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### BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.00	43.50	-15.41	74.00	30.50	263	349	Vertical
2	4804.00	33.31	-15.41	54.00	20.69	325	104	Vertical
3	7206.00	48.16	-8.59	74.00	25.84	148	305	Vertical
4	7206.00	37.10	-8.59	54.00	16.90	255	132	Vertical
5	17839.7	60.24	1.04	74.00	13.76	321	144	Vertical
6	17993.3	50.35	1.52	54.00	3.65	342	349	Vertical

#### Final Data List



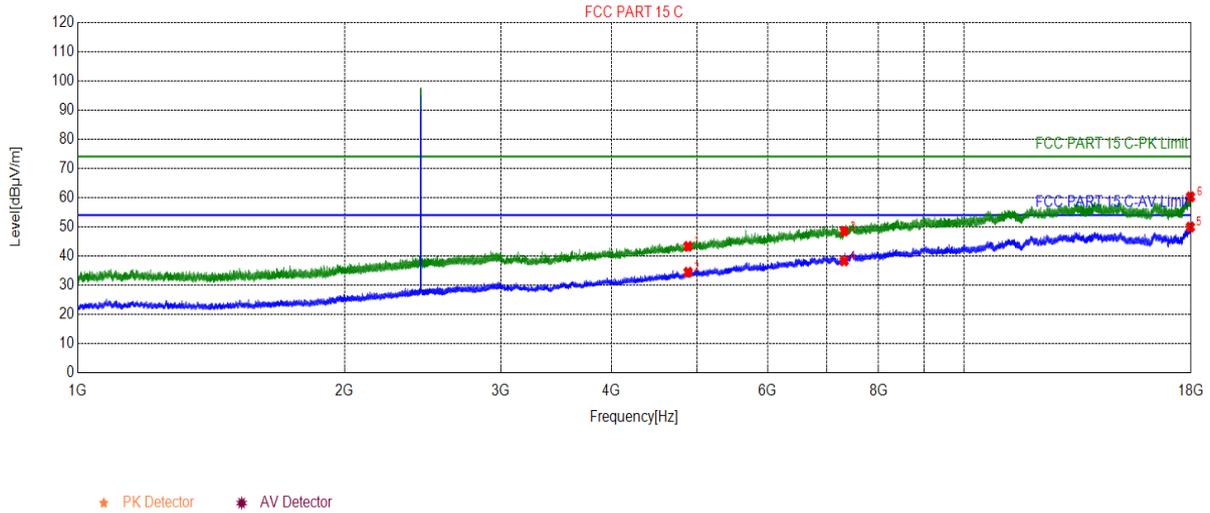
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**BLE\_2M\_Channel 19**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.00	43.28	-15.07	74.00	30.72	156	73	Horizontal
2	4880.00	34.45	-15.07	54.00	19.55	258	234	Horizontal
3	7320.00	48.49	-8.63	74.00	25.51	114	58	Horizontal
4	7320.00	38.29	-8.63	54.00	15.71	146	117	Horizontal
5	17989.7	49.92	1.59	54.00	4.08	186	114	Horizontal
6	17996.3	60.25	1.46	74.00	13.75	155	89	Horizontal

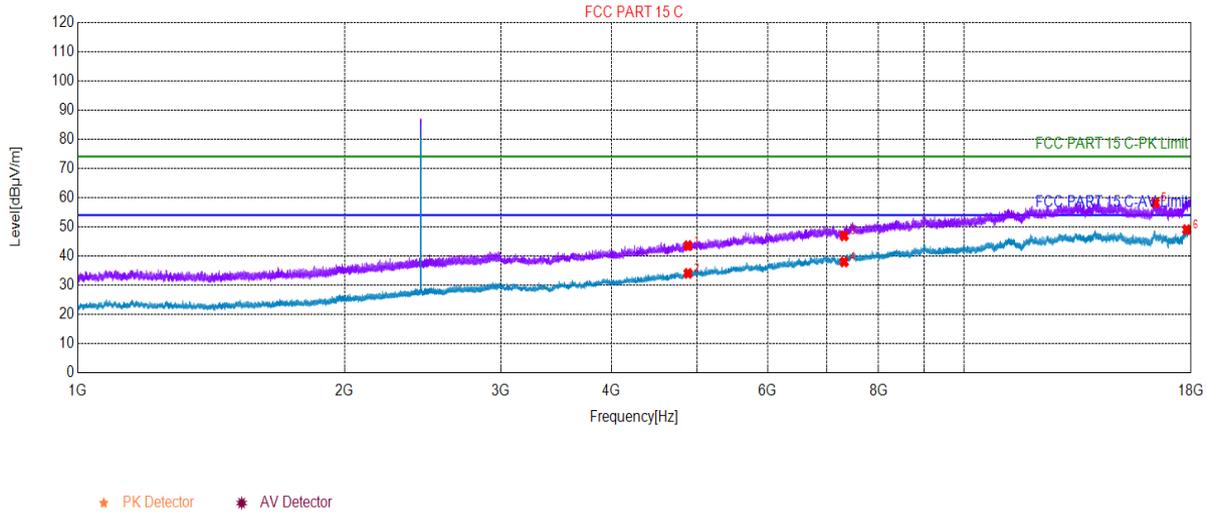
**Final Data List**



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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	4880.00	43.51	-15.07	74.00	30.49	265	60	Vertical
2	4880.00	34.03	-15.07	54.00	19.97	255	247	Vertical
3	7320.00	46.86	-8.63	74.00	27.14	321	347	Vertical
4	7320.00	37.96	-8.63	54.00	16.04	255	202	Vertical
5	16418.9	58.18	1.17	74.00	15.82	142	44	Vertical
6	17817.5	49.01	1.06	54.00	4.99	263	306	Vertical

#### Final Data List



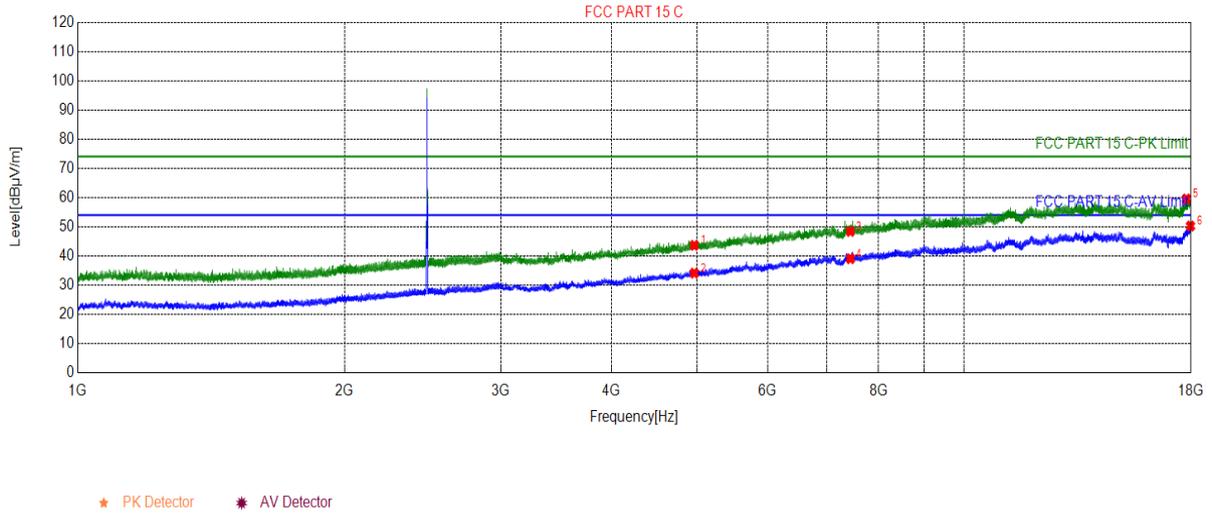
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### BLE\_2M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.00	43.63	-14.40	74.00	30.37	263	61	Horizontal
2	4960.00	34.13	-14.40	54.00	19.87	244	166	Horizontal
3	7440.00	48.39	-7.31	74.00	25.61	256	234	Horizontal
4	7440.00	39.06	-7.31	54.00	14.94	214	304	Horizontal
5	17807.9	59.52	1.07	74.00	14.48	158	104	Horizontal
6	17995.7	50.26	1.47	54.00	3.74	186	320	Horizontal

#### Final Data List



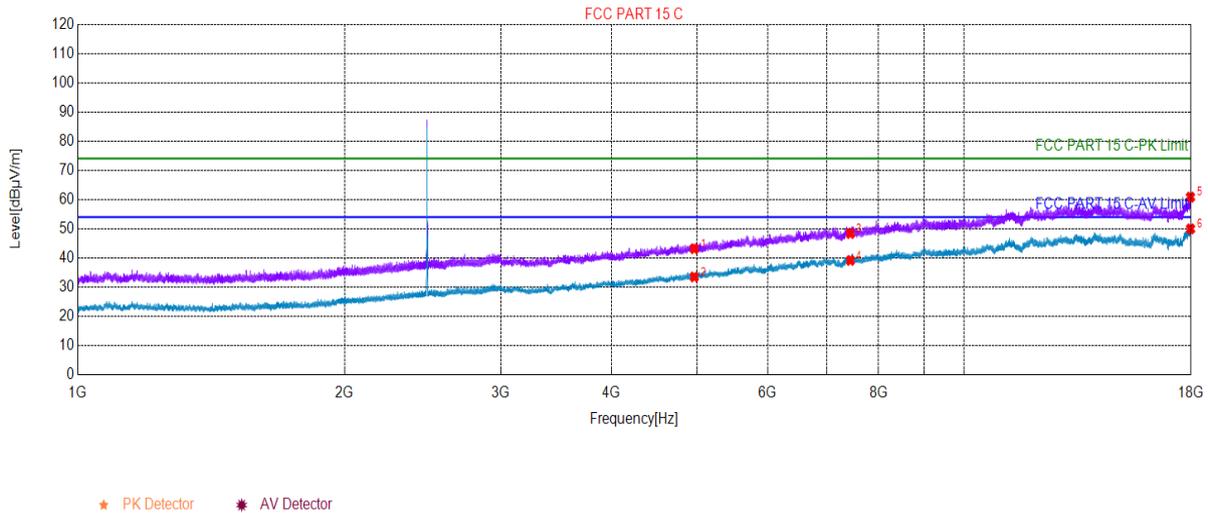
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**BLE\_2M\_Channel 39**

**Test Graph**



**Suspected List**

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.00	43.14	-14.40	74.00	30.86	265	147	Vertical
2	4960.00	33.51	-14.40	54.00	20.49	255	175	Vertical
3	7440.00	48.35	-7.31	74.00	25.65	321	75	Vertical
4	7440.00	39.15	-7.31	54.00	14.85	145	102	Vertical
5	17994.5	60.84	1.49	74.00	13.16	288	146	Vertical
6	17997.5	49.97	1.43	54.00	4.03	325	262	Vertical

**Final Data List**

**Remark:**

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



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Report No.: AR/2021/5000403

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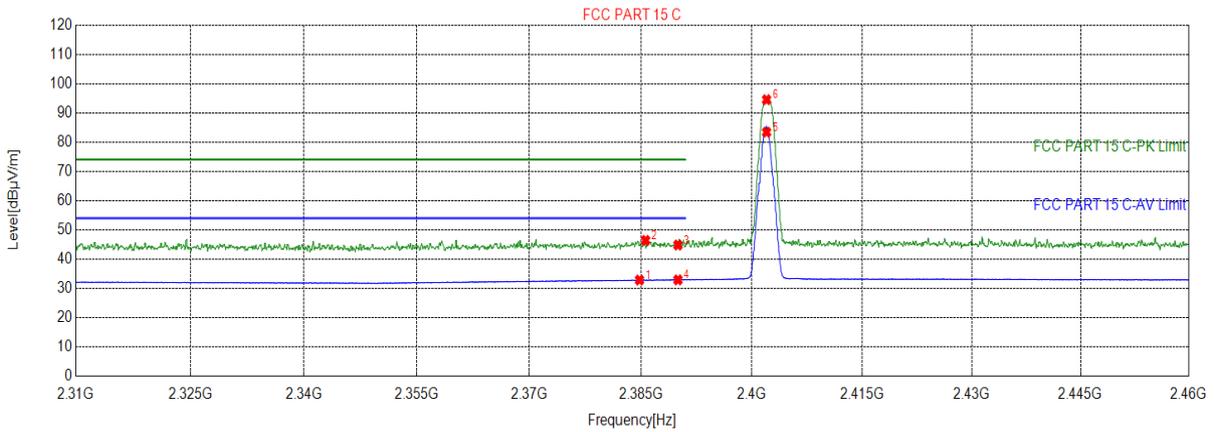
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## Restricted bands around fundamental frequency

Test plots  
BLE\_1M\_Channel 0

### Test Graph



★ PK Detector    ★ AV Detector

### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.81	32.85	9.46	54.00	21.15	187	147	Horizontal
2	2385.63	46.39	9.48	74.00	27.61	145	60	Horizontal
3	2390.00	44.81	9.60	74.00	29.19	204	254	Horizontal
4	2390.00	32.91	9.60	54.00	21.09	266	144	Horizontal
5	2402.00	83.37	9.87	0.00	-83.37	254	320	Horizontal
6	2402.00	94.49	9.87	0.00	-94.49	123	256	Horizontal

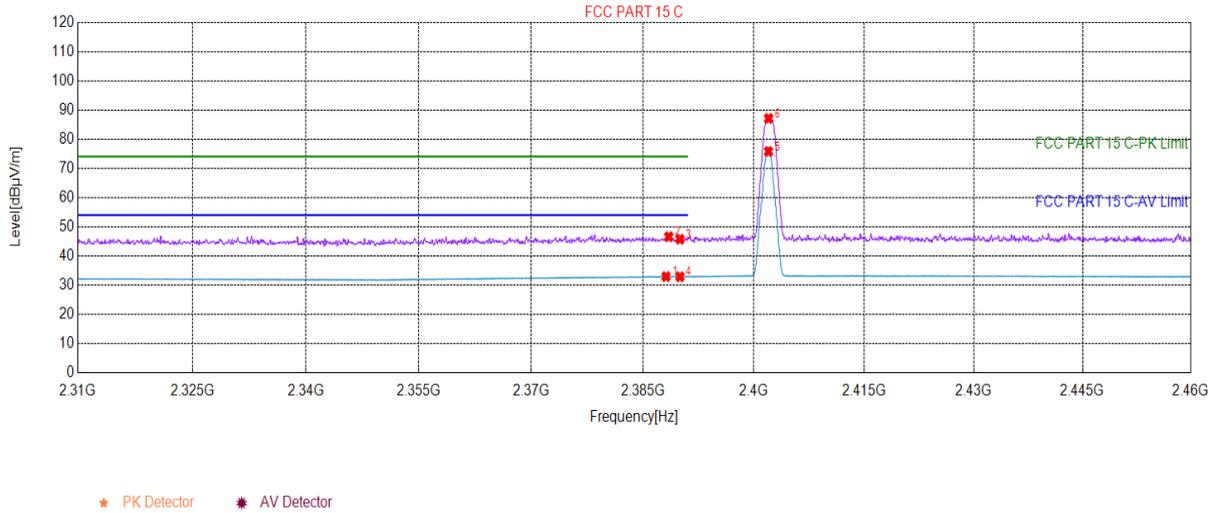
### Final Data List



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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	2388.11	32.94	9.55	54.00	21.06	256	179	Vertical
2	2388.48	46.59	9.56	74.00	27.41	325	254	Vertical
3	2390.00	45.71	9.60	74.00	28.29	321	144	Vertical
4	2390.00	32.88	9.60	54.00	21.12	258	78	Vertical
5	2402.00	75.77	9.87	0.00	-75.77	365	125	Vertical
6	2402.00	87.10	9.87	0.00	-87.10	244	1	Vertical

#### Final Data List



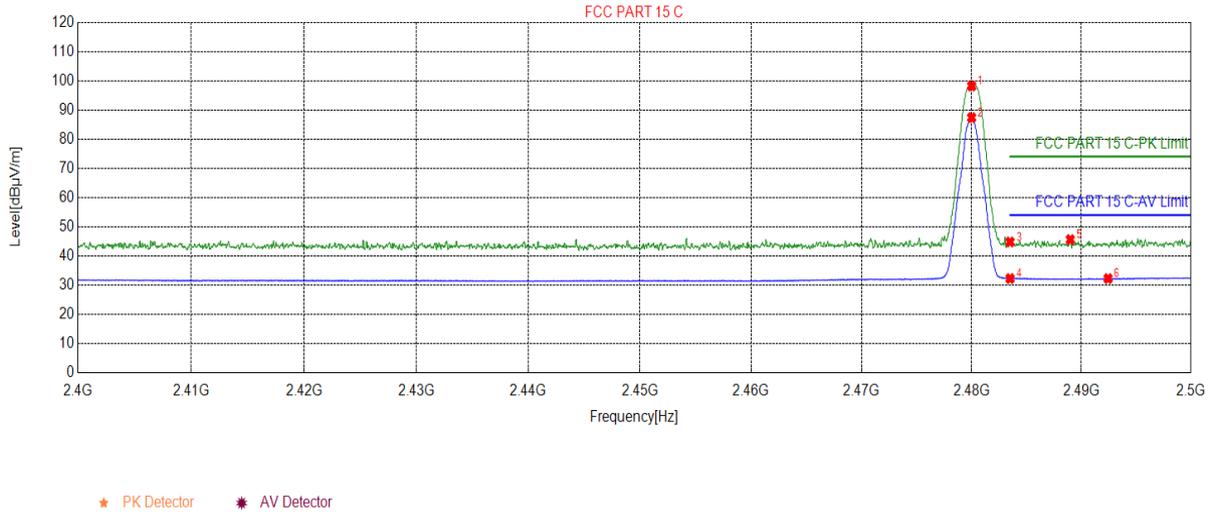
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### BLE\_1M\_Channel 39

#### 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	98.17	8.47	0.00	-98.17	174	21	Horizontal
2	2480.00	87.37	8.47	0.00	-87.37	189	15	Horizontal
3	2483.50	44.78	8.48	74.00	29.22	174	148	Horizontal
4	2483.50	32.26	8.48	54.00	21.74	168	154	Horizontal
5	2488.99	45.60	8.50	74.00	28.40	148	2	Horizontal
6	2492.44	32.25	8.56	54.00	21.75	198	165	Horizontal

#### Final Data List



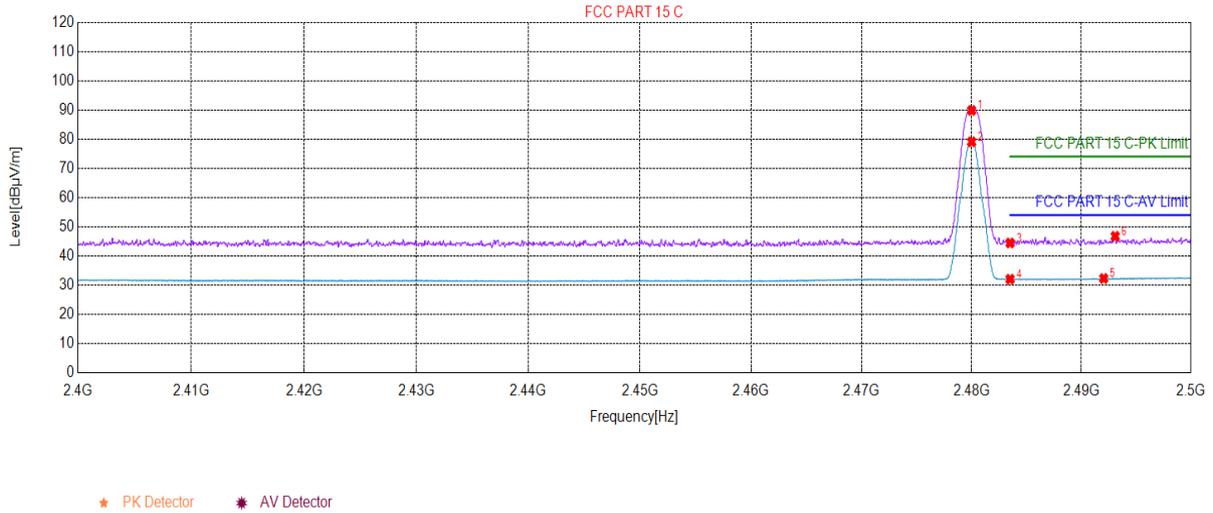
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### BLE\_1M\_Channel 39

#### 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	89.82	8.47	0.00	-89.82	174	14	Vertical
2	2480.00	79.07	8.47	0.00	-79.07	152	185	Vertical
3	2483.50	44.44	8.48	74.00	29.56	178	165	Vertical
4	2483.50	32.04	8.48	54.00	21.96	169	174	Vertical
5	2492.04	32.28	8.55	54.00	21.72	252	19	Vertical
6	2493.09	46.74	8.57	74.00	27.26	148	145	Vertical

#### Final Data List



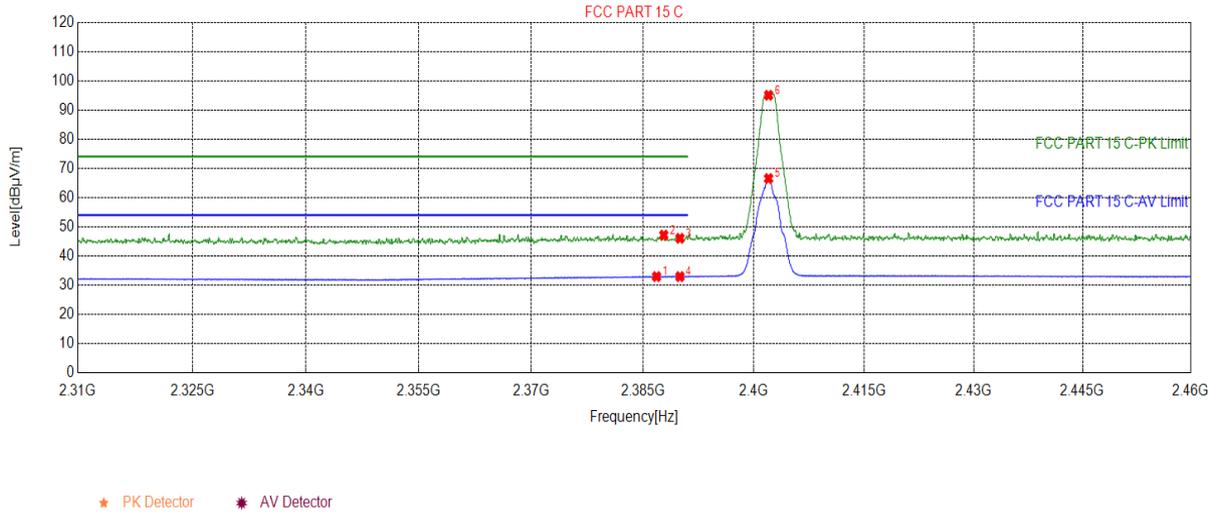
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### BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.83	32.92	9.52	54.00	21.08	180	152	Horizontal
2	2387.81	47.15	9.54	74.00	26.85	250	265	Horizontal
3	2390.00	46.04	9.60	74.00	27.96	156	301	Horizontal
4	2390.00	32.92	9.60	54.00	21.08	144	15	Horizontal
5	2402.00	66.50	9.87	0.00	-66.50	182	262	Horizontal
6	2402.00	95.02	9.87	0.00	-95.02	196	322	Horizontal

#### Final Data List



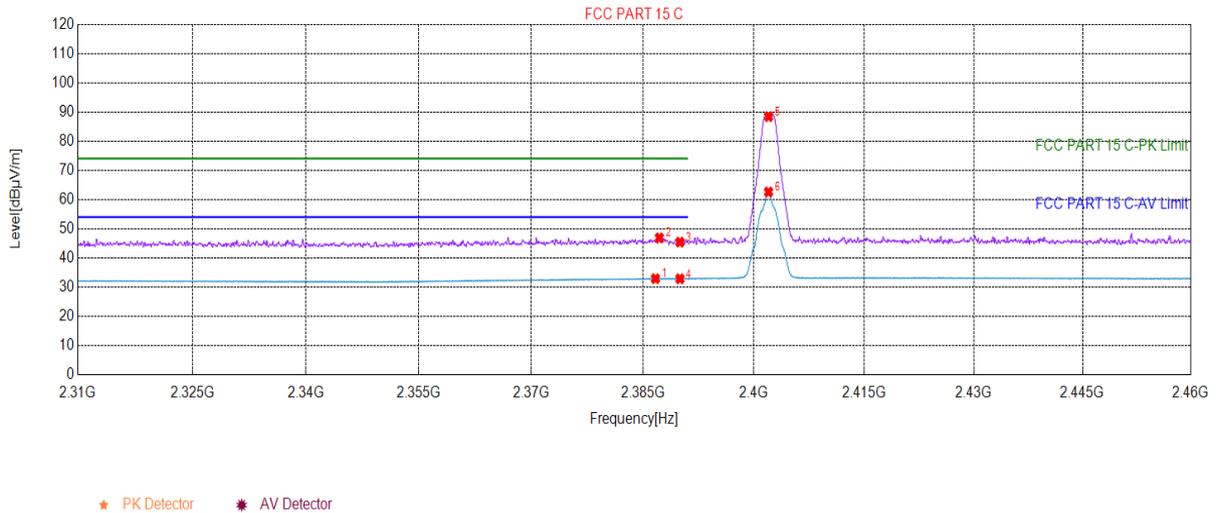
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### BLE\_2M\_Channel 0

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2386.68	32.89	9.51	54.00	21.11	268	148	Vertical
2	2387.21	46.87	9.53	74.00	27.13	245	265	Vertical
3	2390.00	45.43	9.60	74.00	28.57	223	211	Vertical
4	2390.00	32.86	9.60	54.00	21.14	320	145	Vertical
5	2402.00	88.40	9.87	0.00	-88.40	312	102	Vertical
6	2402.00	62.59	9.87	0.00	-62.59	340	26	Vertical

#### Final Data List



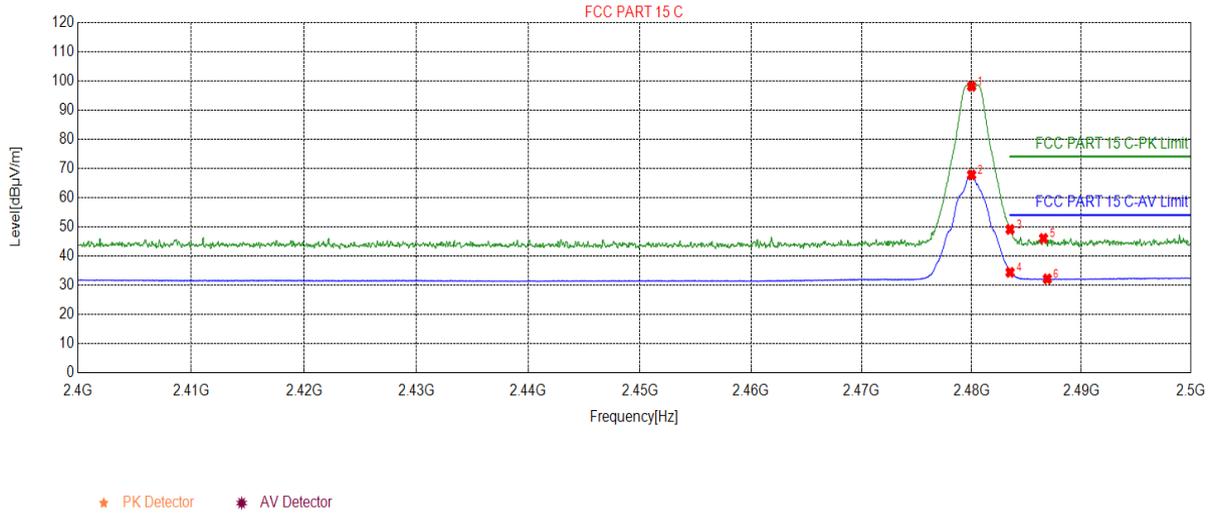
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### BLE\_2M\_Channel 39

#### Test Graph



#### Suspected List

Suspected List								
NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.00	98.08	8.47	0.00	-98.08	156	165	Horizontal
2	2480.00	67.74	8.47	0.00	-67.74	254	254	Horizontal
3	2483.50	49.09	8.48	74.00	24.91	144	144	Horizontal
4	2483.50	34.38	8.48	54.00	19.62	186	58	Horizontal
5	2486.54	46.01	8.49	74.00	27.99	194	213	Horizontal
6	2486.89	32.14	8.49	54.00	21.86	176	255	Horizontal

#### Final Data List



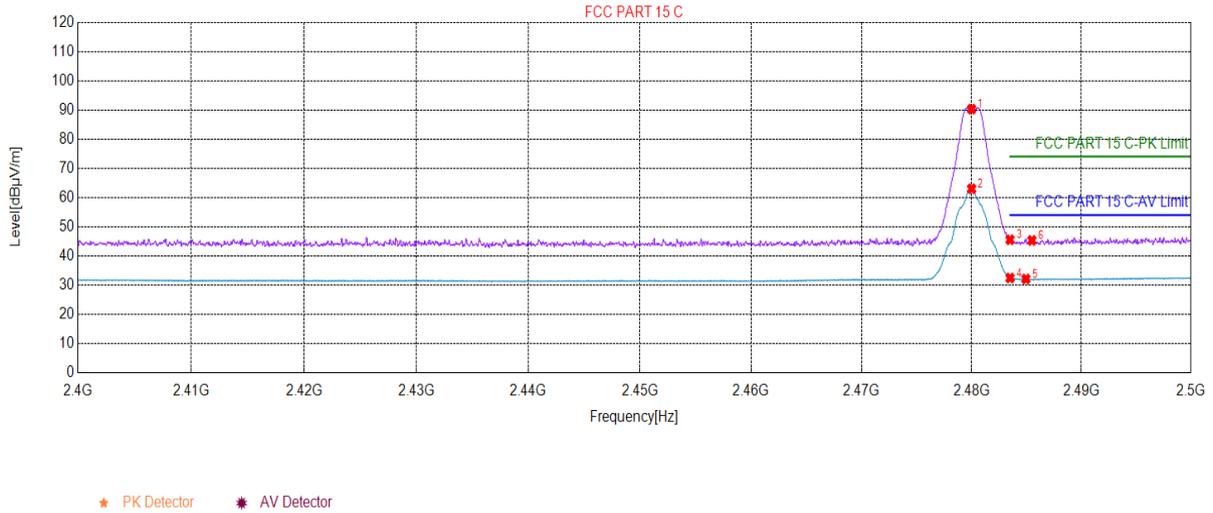
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**BLE\_2M\_Channel 39**

**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	90.28	8.47	0.00	-90.28	285	165	Vertical
2	2480.00	62.99	8.47	0.00	-62.99	246	254	Vertical
3	2483.50	45.54	8.48	74.00	28.46	320	25	Vertical
4	2483.50	32.45	8.48	54.00	21.55	311	0	Vertical
5	2484.94	32.11	8.49	54.00	21.89	356	146	Vertical
6	2485.49	45.31	8.49	74.00	28.69	322	320	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:

Factor= Antenna Factor + Cable Factor – Preamplifier Factor

Final Test Level =Receiver Reading + Factor

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

The End

