

Report No.: HEWM2202000026RG03

Rev.: 01

Page: 1 of 98


TEST REPORT

Application No.: HEWM2202000026RG
Applicant: Honor Device Co., Ltd.
Address of Applicant: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
Manufacturer: Honor Device Co., Ltd.
Address of Manufacturer: Suite 3401, Unit A, Building 6, Shum Yip Sky Park, No. 8089, Hongli West Road, Xiangmihu Street, Futian District, Shenzhen, Guangdong 518040, People's Republic of China
EUT Description: Smart Phone
Model No.: CMA-LX1
Trade Mark: HONOR
FCC ID: 2AYGCCMA-LX1
Standards: 47 CFR FCC Part 2, Subpart J
 47 CFR Part 15, Subpart C
Date of Receipt: 2022/2/11
Date of Test: 2022/2/13 to 2022/2/28 (for original report SUHR/2022/1001003)
 2022/3/1 to 2022/3/8 (for new report HEWM2202000026RG03)
Date of Issue: 2022/3/10

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

Authorized Signature:



Panta Sun
Wireless Laboratory Manager




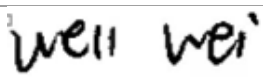
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/10		Original

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



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2 Test Summary

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



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Report No.: HEWM2202000026RG03
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Remark:

This test report (Report No.: HEWM2202000026RG03 issued on 2022-03-10) is based on the original test report (Report No.: SUHR/2022/1001003 issued on 2022-03-04).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report radiated spurious emissions and Restricted bands around fundamental frequency were performed based on the worst case of the original report with report number SUHR/2022/1001003 issued on 2022-03-04 and other test data in this report are based on the previous report with report number SUHR/2022/1001003 issued on 2022-03-04.



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3 General Information

3.1 Details of Client

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

3.2 Test Location

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

3.3 Test Facility

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

<ul style="list-style-type: none"> A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327
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3.4 General Description of EUT

EUT Description:	Smart Phone
Model No.:	CMA-LX1
Trade Mark:	HONOR
Hardware Version:	HL2CMAM
Software Version:	4.2.0.32(C900E32R1P1)
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 2 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, - N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.0
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	<input checked="" type="checkbox"/> Provided by client
	1M PHY 2M PHY
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*:	<input checked="" type="checkbox"/> Provided by client
	-2.2dBi(Ant9);
RF Cable*:	<input checked="" type="checkbox"/> Provided by client
	1dB
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>	



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

Remark:

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

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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.87
LTVN	0	3.87
HTNV	35	3.87

Remark:
 NV: Normal Voltage
 NT: Normal Temperature
 LT: Low Extreme Test Temperature
 HT: High Extreme Test Temperature

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<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 antenna and no consideration of replacement. The best case gain of the antenna is -2.2dBi(Ant9).</p>	



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4.2 AC Power Line Conducted Emissions

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



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



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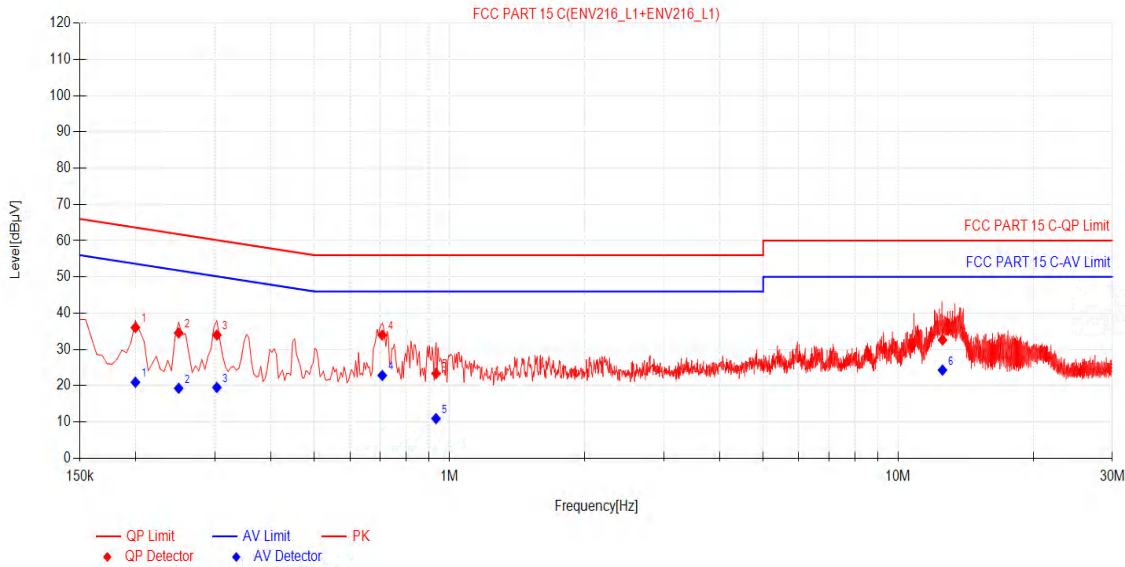
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Measurement Data

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:



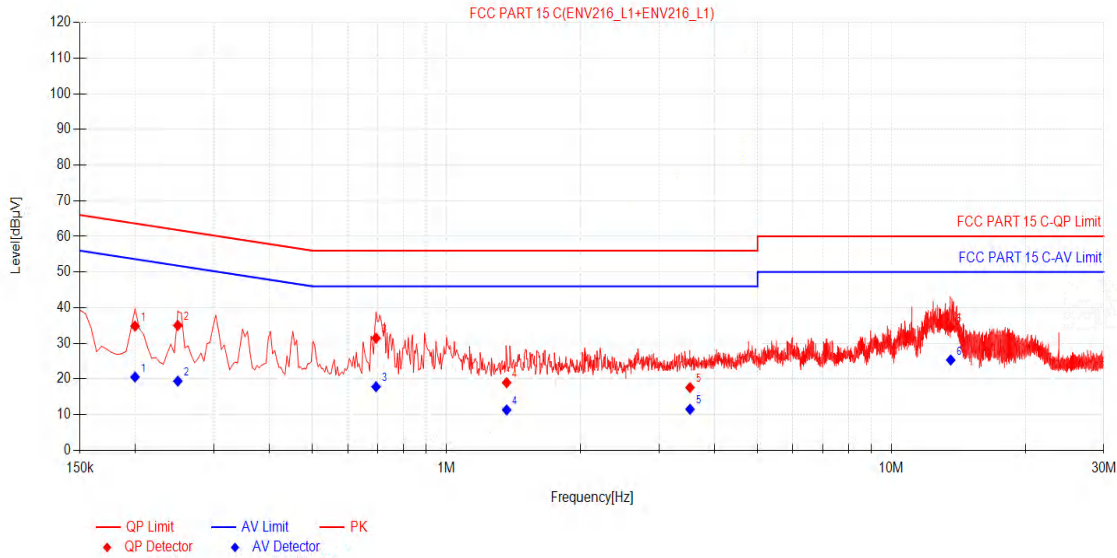
Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1995	10.82	36.04	63.63	27.59	20.94	53.63	32.69	PASS
2	0.2490	10.80	34.56	61.79	27.23	19.28	51.79	32.51	PASS
3	0.3030	10.62	33.97	60.16	26.19	19.52	50.16	30.64	PASS
4	0.7080	10.57	33.95	56.00	22.05	22.83	46.00	23.17	PASS
5	0.9330	10.56	23.38	56.00	32.62	10.93	46.00	35.07	PASS
6	12.5520	10.57	32.63	60.00	27.37	24.31	50.00	25.69	PASS



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Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1995	10.82	34.83	63.63	28.80	20.56	53.63	33.07	PASS
2	0.2490	10.80	35.03	61.79	26.76	19.41	51.79	32.38	PASS
3	0.6945	10.58	31.46	56.00	24.54	17.83	46.00	28.17	PASS
4	1.3650	10.78	18.97	56.00	37.03	11.33	46.00	34.67	PASS
5	3.5250	10.70	17.60	56.00	38.40	11.51	46.00	34.49	PASS
6	13.5870	10.55	34.54	60.00	25.46	25.33	50.00	24.67	PASS

Remark:

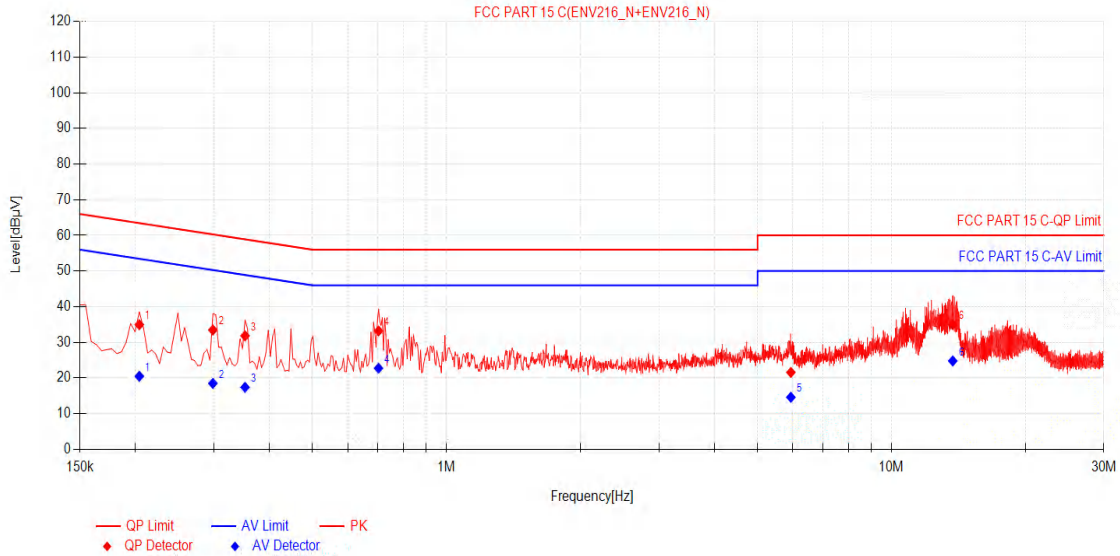
1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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Neutral Line:



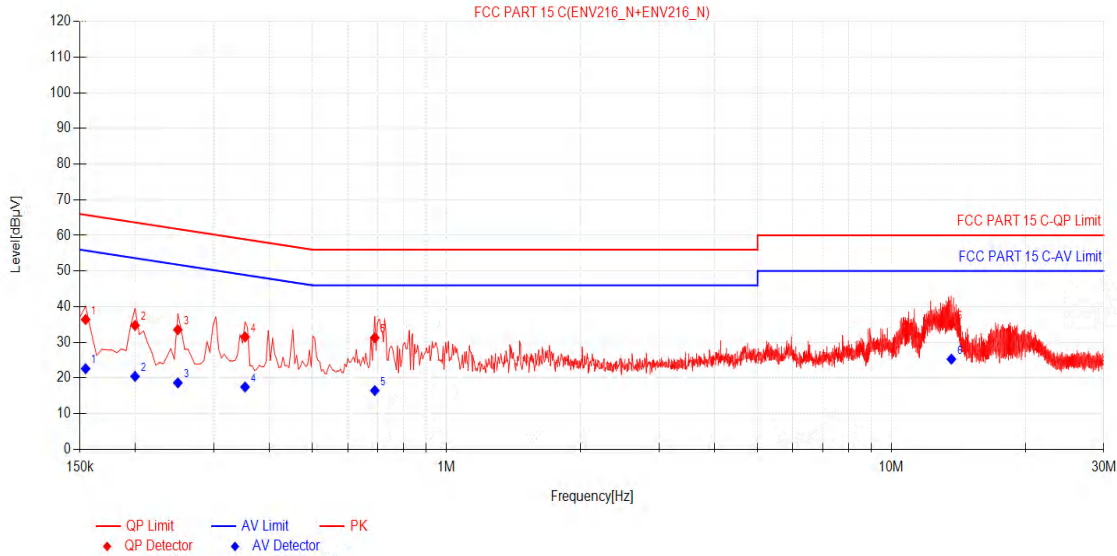
Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.2040	10.67	34.97	63.45	28.48	20.49	53.45	32.96	PASS
2	0.2985	10.76	33.47	60.28	26.81	18.49	50.28	31.79	PASS
3	0.3525	10.81	31.83	58.90	27.07	17.40	48.90	31.50	PASS
4	0.7035	10.81	33.21	56.00	22.79	22.76	46.00	23.24	PASS
5	5.9415	10.57	21.57	60.00	38.43	14.60	50.00	35.40	PASS
6	13.7310	10.61	34.99	60.00	25.01	24.79	50.00	25.21	PASS



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Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBuV]	QP Limit [dBuV]	QP Margin [dB]	AV Value [dBuV]	AV Limit [dBuV]	AV Margin [dB]	Verdict
1	0.1545	10.72	36.40	65.75	29.35	22.59	55.75	33.16	PASS
2	0.1995	10.66	34.75	63.63	28.88	20.45	53.63	33.18	PASS
3	0.2490	10.73	33.53	61.79	28.26	18.64	51.79	33.15	PASS
4	0.3525	10.81	31.54	58.90	27.36	17.49	48.90	31.41	PASS
5	0.6900	10.80	31.29	56.00	24.71	16.48	46.00	29.52	PASS
6	13.6320	10.61	35.16	60.00	24.84	25.29	50.00	24.71	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Maximum 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 & 99% Occupied Bandwidth

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



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

Test Setup:

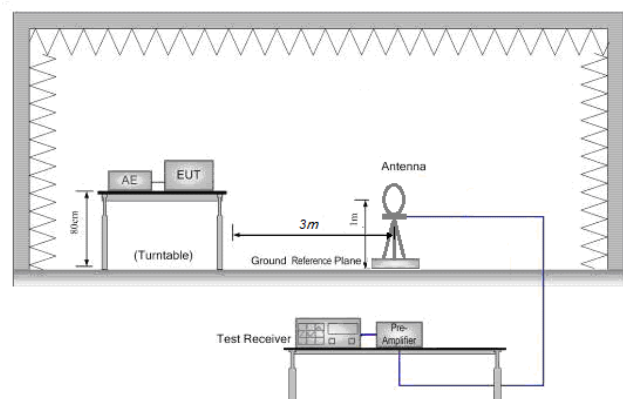


Figure 1. Below 30MHz

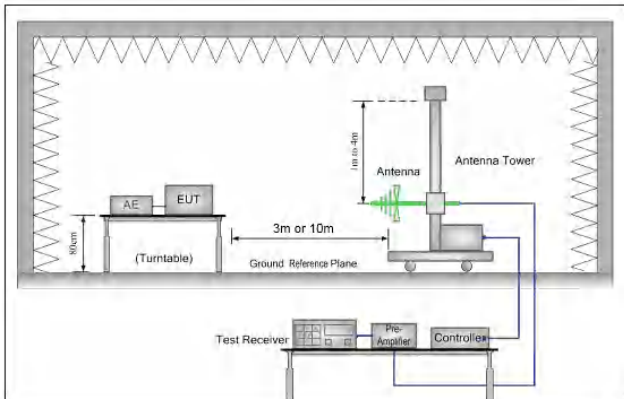


Figure 2. 30MHz to 1GHz



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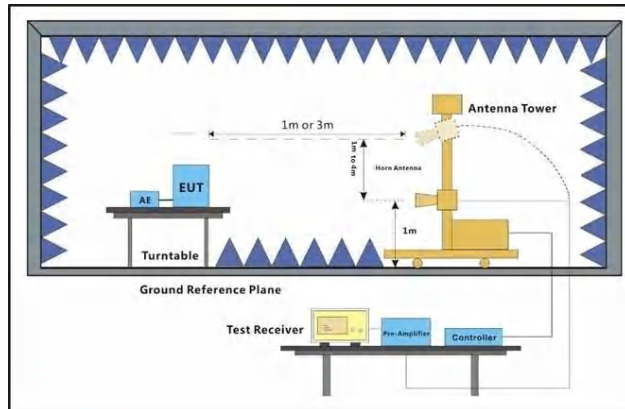


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test the EUT in the lowest channel, the middle channel, the Highest channel. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Y axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported The disturbance above 18GHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> RBW = 120 kHz VBW = 300 kHz Detector = Peak



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	<ul style="list-style-type: none"> • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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4.10 Restricted bands around fundamental frequency

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

Test Setup:

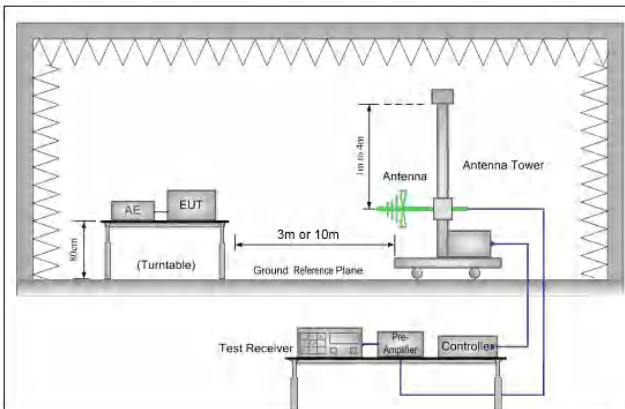


Figure 1. 30MHz to 1GHz

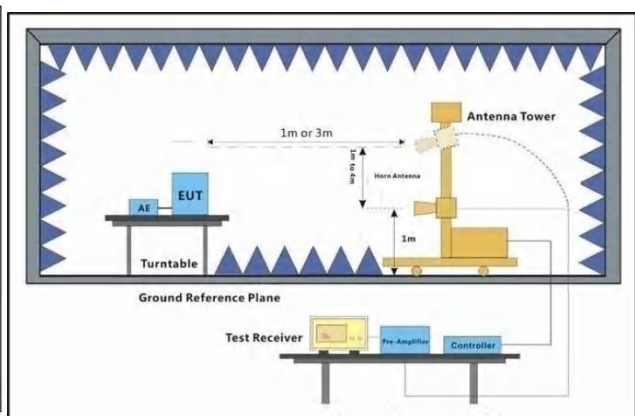


Figure 2. Above 1 GHz

Test Procedure:

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



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	<p>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</p> <p>h. Test the EUT in the lowest channel , the Highest channel</p> <p>i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Y axis positioning which it is worse case.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Test Configuration:	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation. Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.</p>
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	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25 x 10 ⁻⁸
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25 x 10 ⁻⁸
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9kHz - 30MHz)
		± 4.8dB (30MHz - 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

Tonscend Test System (for original report)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-01	2021/9/28	2022/9/27
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Power Meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power Sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment (for original report)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/19	2023/2/18



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RSE Test Equipment (for new report)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/16	2023/2/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2022/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2022/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/16	2023/2/15
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/16	2023/2/15
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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7 Photographs - EUT Constructional Details

Refer to Appendix A.2 WLAN Setup Photos.



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Report No.: HEWM2202000026RG03

Rev.: 01

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Appendix



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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant9	2402	0.68	2401.66	2402.34	0.5	PASS
		2440	0.68	2439.66	2440.34	0.5	PASS
		2480	0.67	2479.66	2480.34	0.5	PASS
BLE_2M	Ant9	2402	1.16	2401.43	2402.59	0.5	PASS
		2440	1.15	2439.43	2440.58	0.5	PASS
		2480	1.15	2479.43	2480.58	0.5	PASS



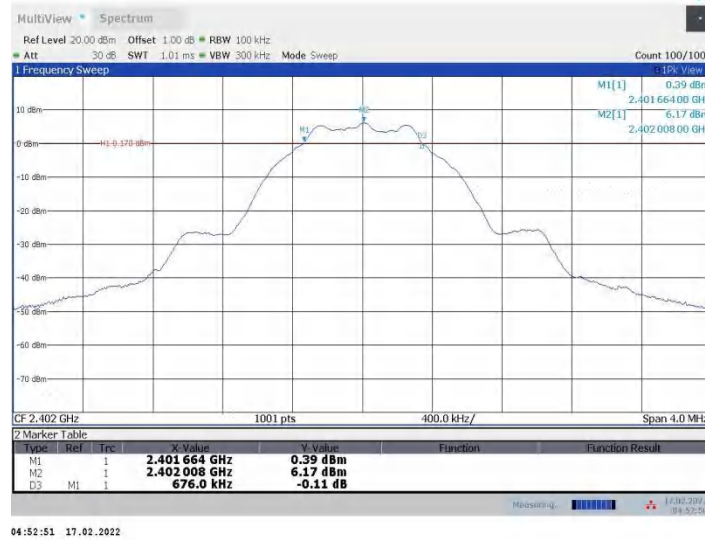
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Test Graphs

BLE_1M_Ant9_2402



BLE_1M_Ant9_2440



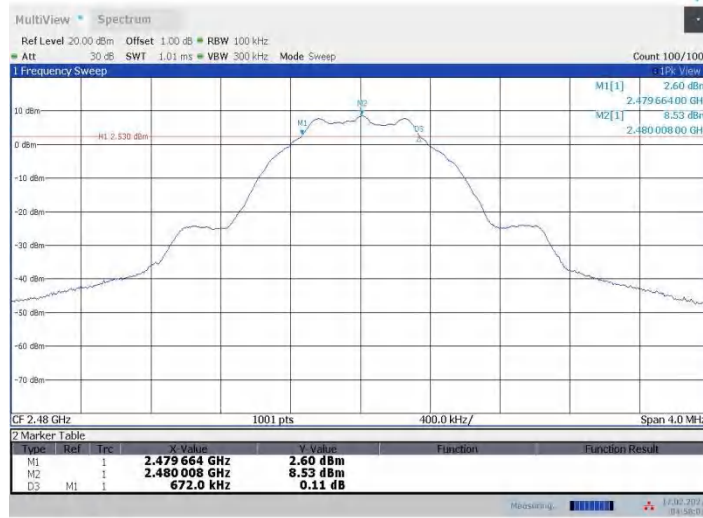
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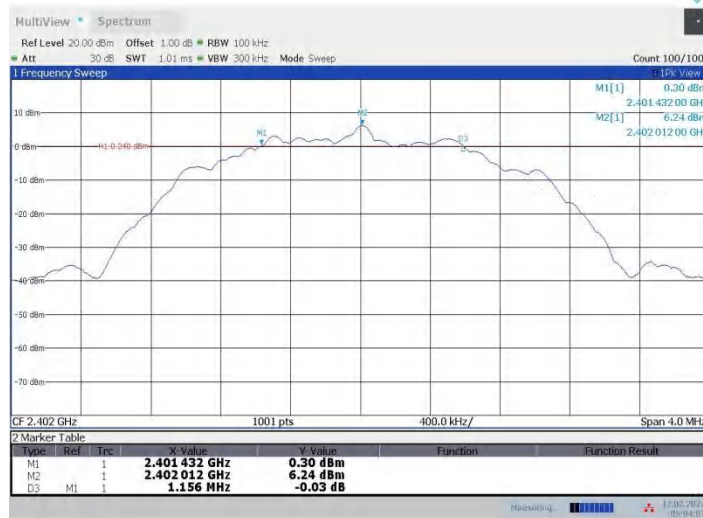
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BLE_1M_Ant9_2480



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BLE_2M_Ant9_2402



05:04:04 17.02.2022

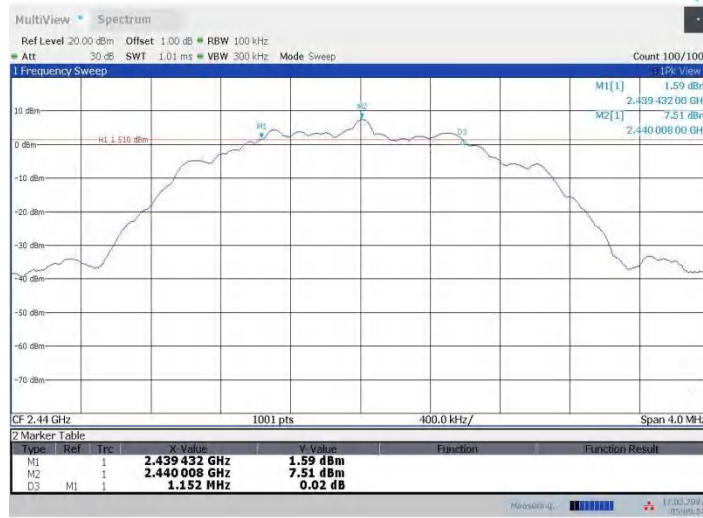


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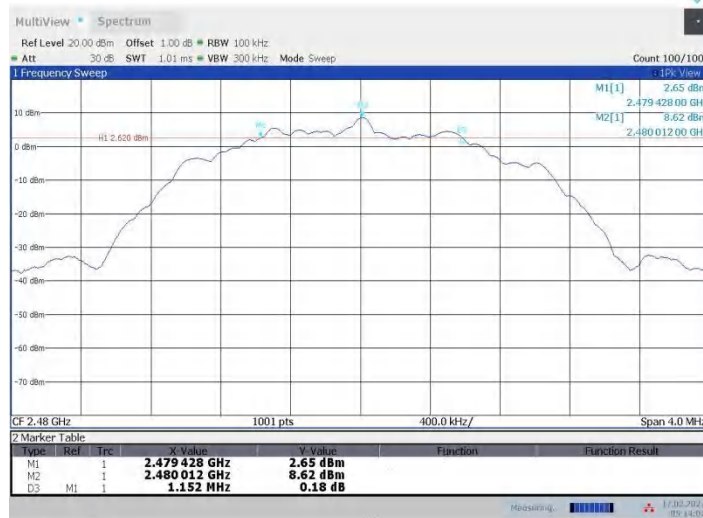
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BLE_2M_Ant9_2440



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BLE_2M_Ant9_2480



05:14:06 17.02.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant9	2402	1.027	2401.497	2402.524	---	---
		2440	1.028	2439.496	2440.524	---	---
		2480	1.029	2479.495	2480.524	---	---
BLE_2M	Ant9	2402	2.042	2400.999	2403.041	---	---
		2440	2.041	2438.998	2441.038	---	---
		2480	2.041	2478.995	2481.036	---	---



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Test Graphs

BLE_1M_Ant9_2402



BLE_1M_Ant9_2440



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BLE_1M_Ant9_2480



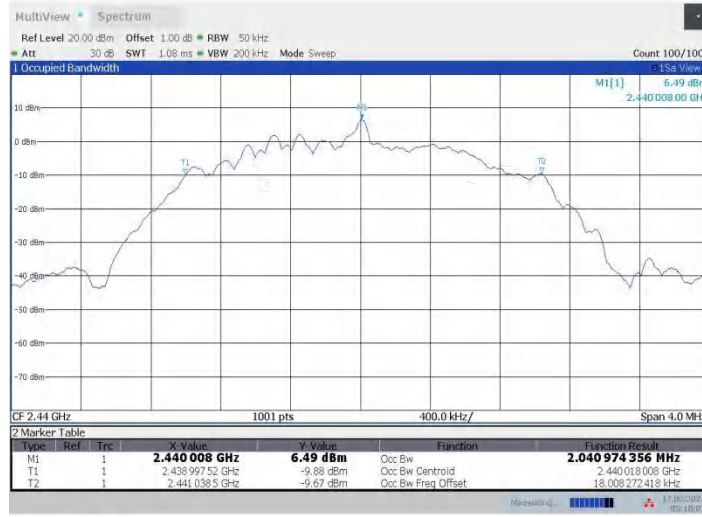
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BLE_2M_Ant9_2440



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Maximum output power
Test Result Peak

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant9	2402	6.39	≤30	PASS
		2440	7.77	≤30	PASS
		2480	8.72	≤30	PASS
BLE_2M	Ant9	2402	6.59	≤30	PASS
		2440	7.82	≤30	PASS
		2480	8.91	≤30	PASS



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Maximum power spectral density Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant9	2402	-8.44	≤8.00	PASS
		2440	-7.23	≤8.00	PASS
		2480	-6.18	≤8.00	PASS
BLE_2M	Ant9	2402	-12.06	≤8.00	PASS
		2440	-10.91	≤8.00	PASS
		2480	-9.73	≤8.00	PASS



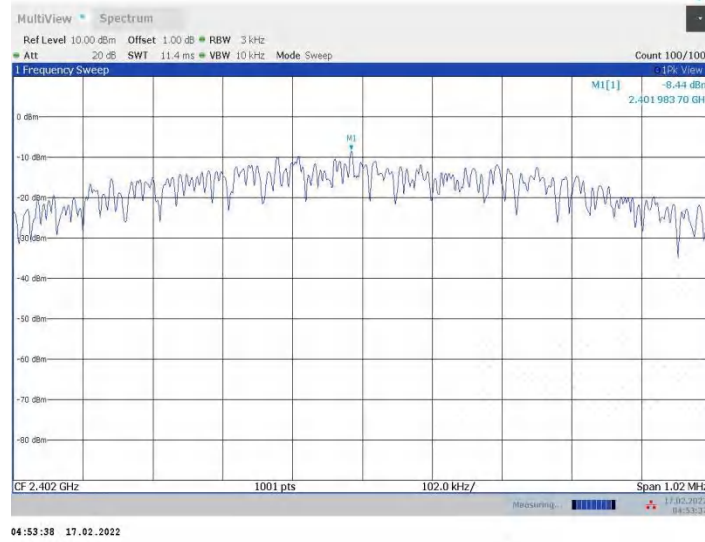
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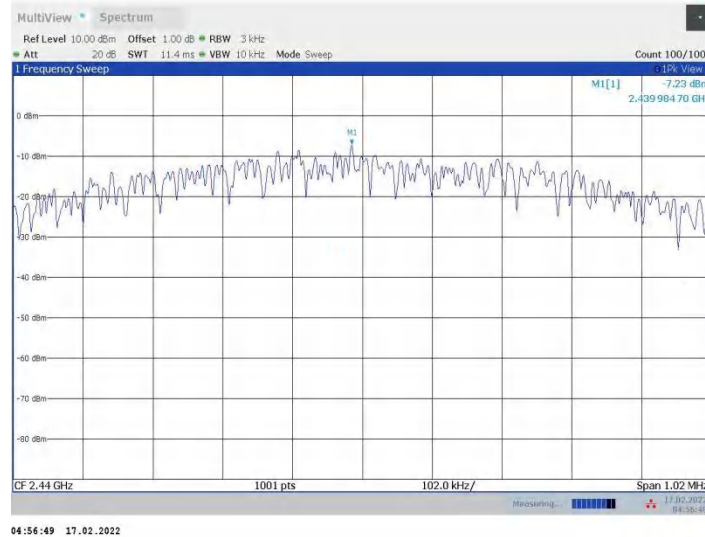
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Test Graphs

BLE_1M_Ant9_2402



BLE_1M_Ant9_2440

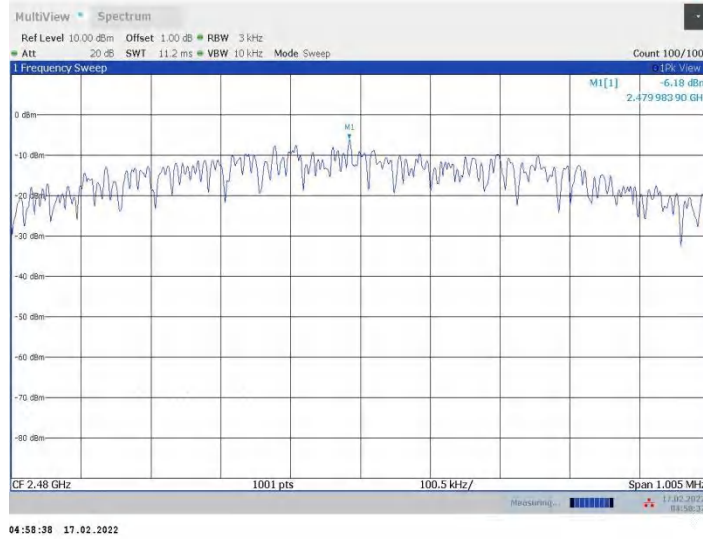


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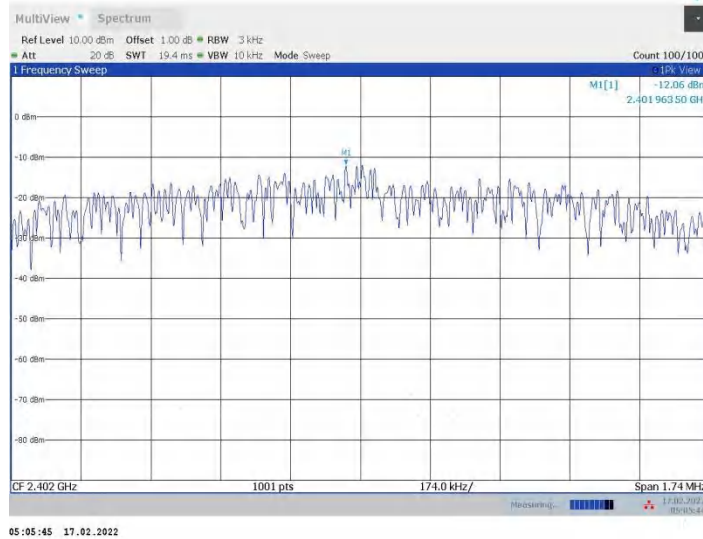
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BLE_1M_Ant9_2480



BLE_2M_Ant9_2402

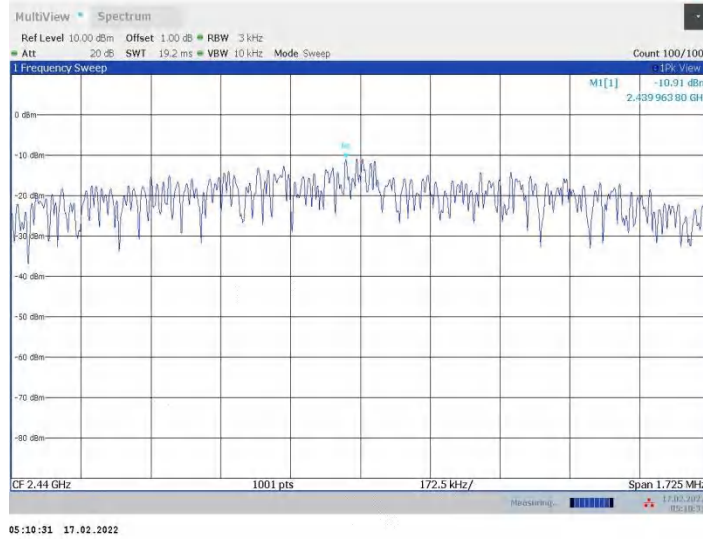


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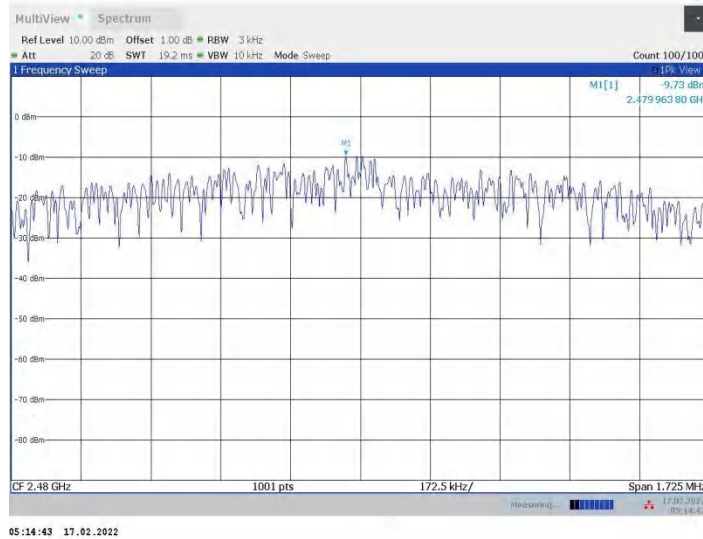
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BLE_2M_Ant9_2440



BLE_2M_Ant9_2480



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Band edge measurements
Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant9	Low	2402	6.06	-49.37	≤-13.94	PASS
		High	2480	8.32	-57.29	≤-11.68	PASS
BLE_2M	Ant9	Low	2402	6.11	-40.34	≤-13.89	PASS
		High	2480	8.30	-55.74	≤-11.7	PASS



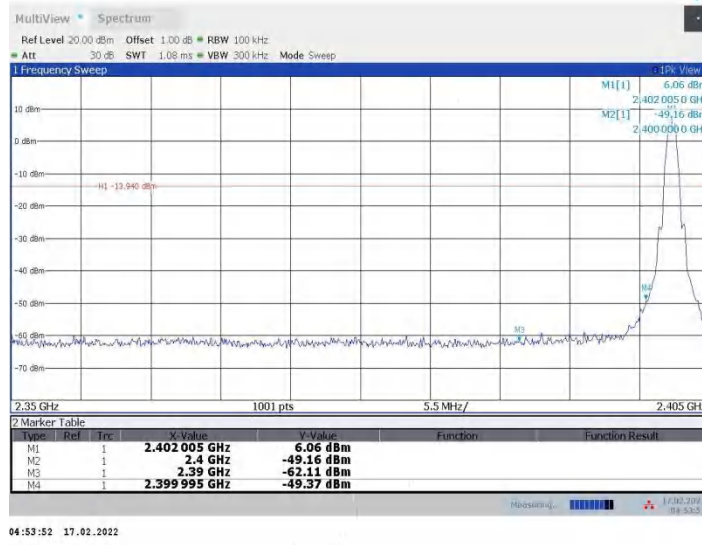
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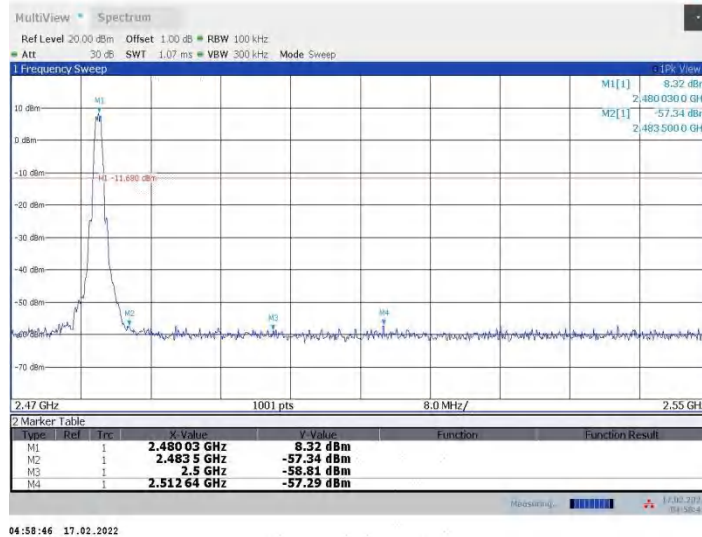
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Test Graphs

BLE_1M_Ant9_Low_2402



BLE_1M_Ant9_High_2480



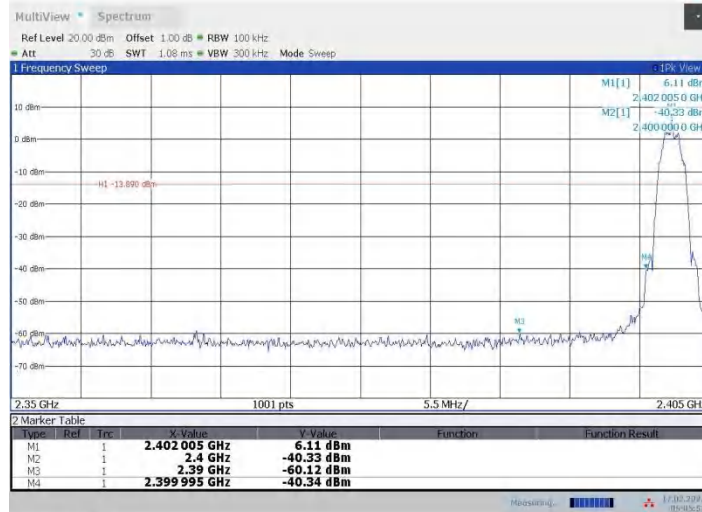
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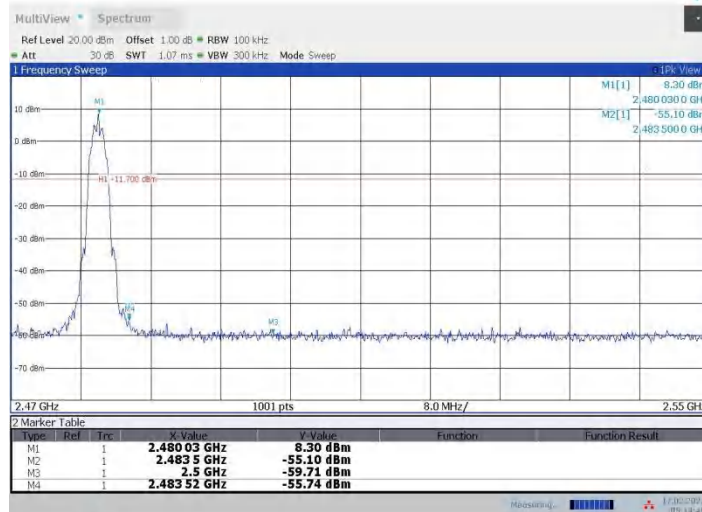
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BLE_2M_Ant9_Low_2402



05:05:53 17.02.2022

BLE_2M_Ant9_High_2480



05:14:50 17.02.2022



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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant9	2402	Reference	6.17	6.17	---	PASS
			30~1000	6.17	-59.51	≤-13.83	PASS
			1000~26500	6.17	-54.41	≤-13.83	PASS
		2440	Reference	7.51	7.51	---	PASS
			30~1000	7.51	-60.39	≤-12.49	PASS
			1000~26500	7.51	-55.34	≤-12.49	PASS
		2480	Reference	8.53	8.53	---	PASS
			30~1000	8.53	-59.49	≤-11.47	PASS
			1000~26500	8.53	-54.87	≤-11.47	PASS
BLE_2M	Ant9	2402	Reference	6.21	6.21	---	PASS
			30~1000	6.21	-59.94	≤-13.79	PASS
			1000~26500	6.21	-54.96	≤-13.79	PASS
		2440	Reference	7.49	7.49	---	PASS
			30~1000	7.49	-59.81	≤-12.51	PASS
			1000~26500	7.49	-54.96	≤-12.51	PASS
		2480	Reference	8.61	8.61	---	PASS
			30~1000	8.61	-59.82	≤-11.39	PASS
			1000~26500	8.61	-54.63	≤-11.39	PASS



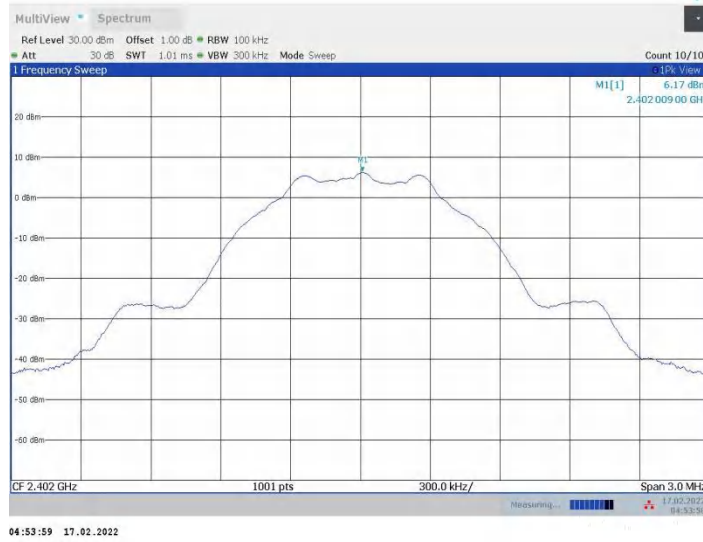
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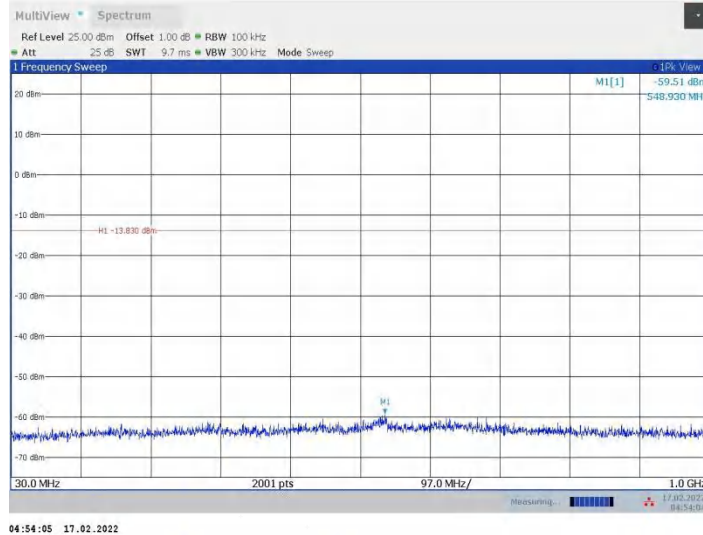
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Test Graphs

BLE_1M_Ant9_2402_0~Reference



BLE_1M_Ant9_2402_30~1000

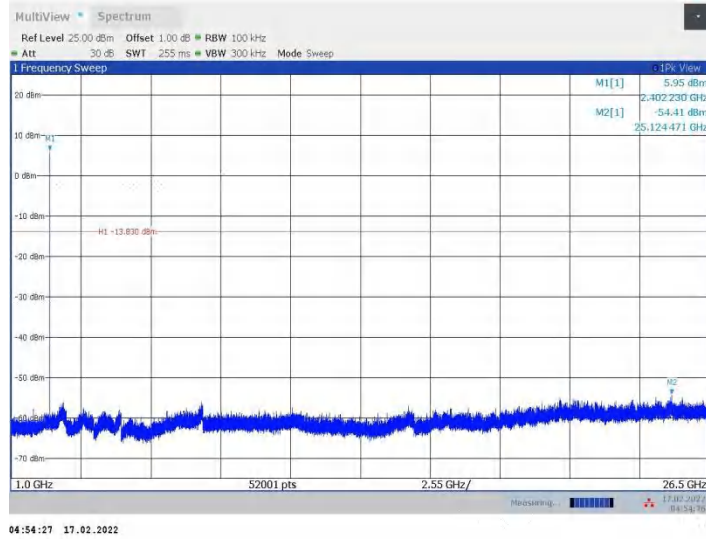


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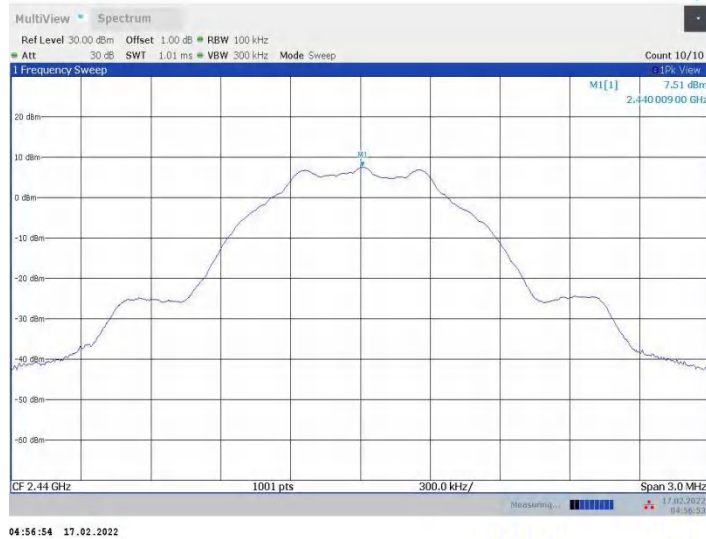
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BLE_1M_Ant9_2402_1000~26500



BLE_1M_Ant9_2440_0~Reference

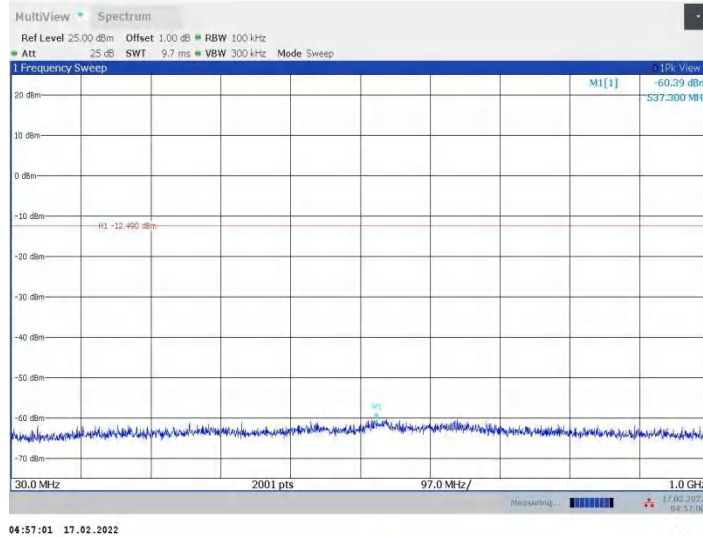


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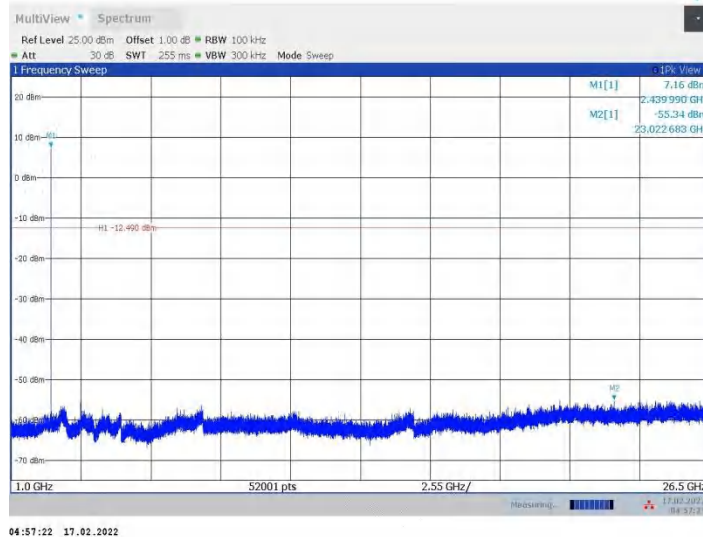
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BLE_1M_Ant9_2440_30~1000



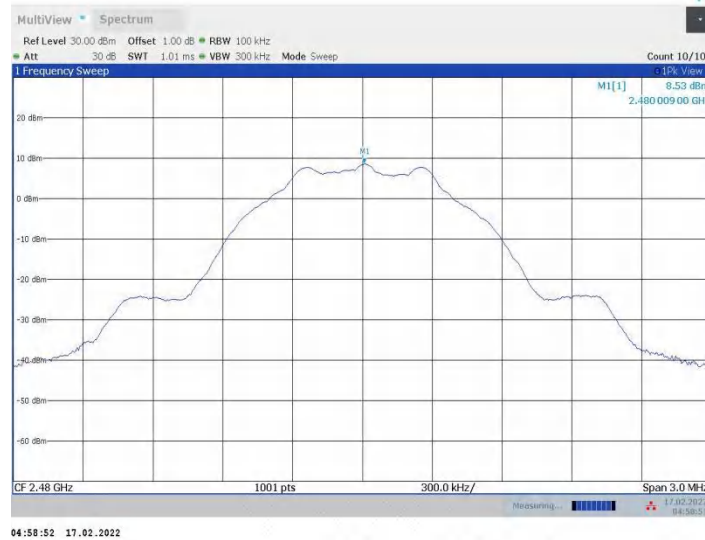
BLE_1M_Ant9_2440_1000~26500



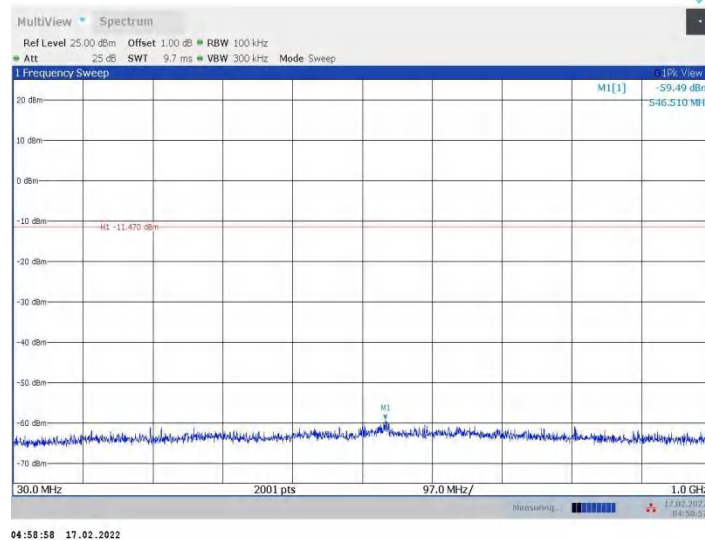
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BLE_1M_Ant9_2480_0~Reference



BLE_1M_Ant9_2480_30~1000

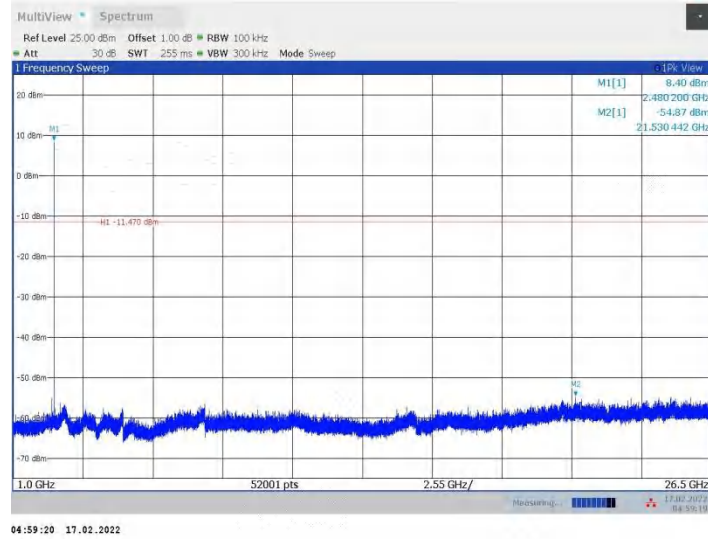


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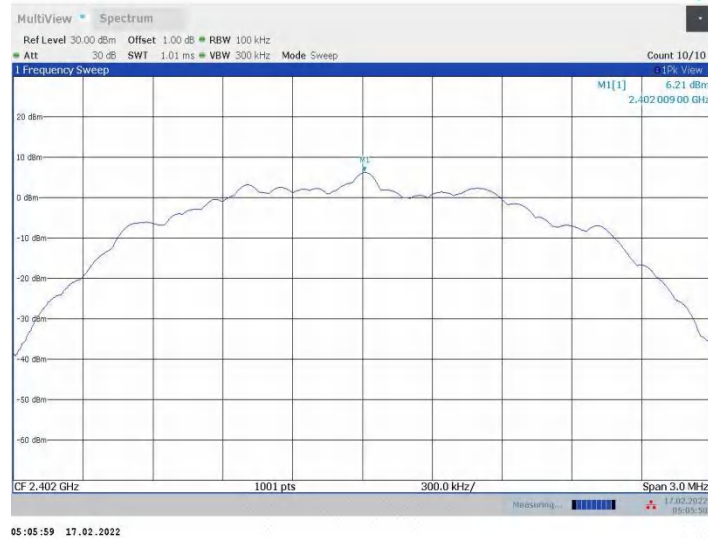
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BLE_1M_Ant9_2480_1000~26500



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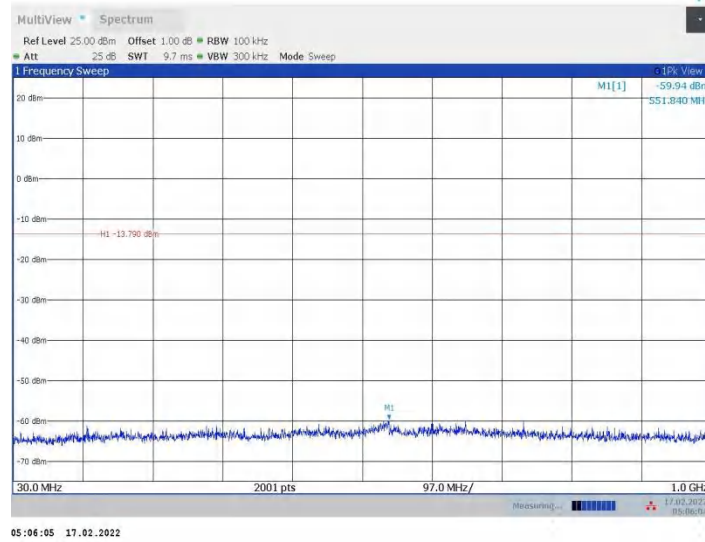


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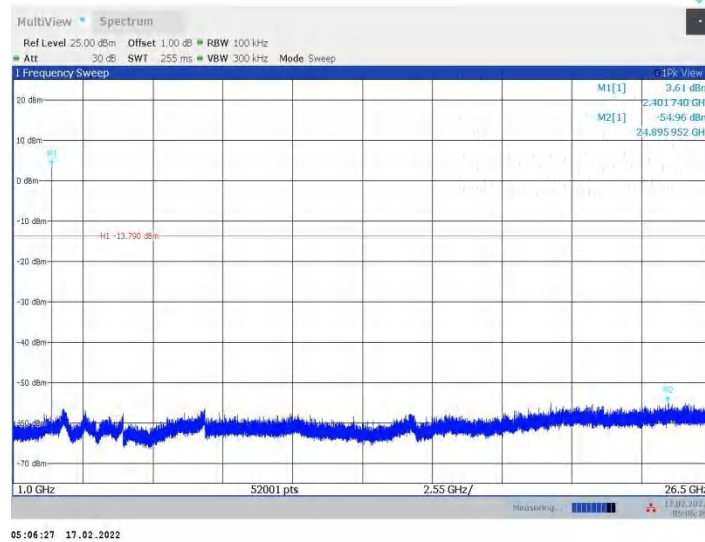
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BLE_2M_Ant9_2402_30~1000



BLE_2M_Ant9_2402_1000~26500



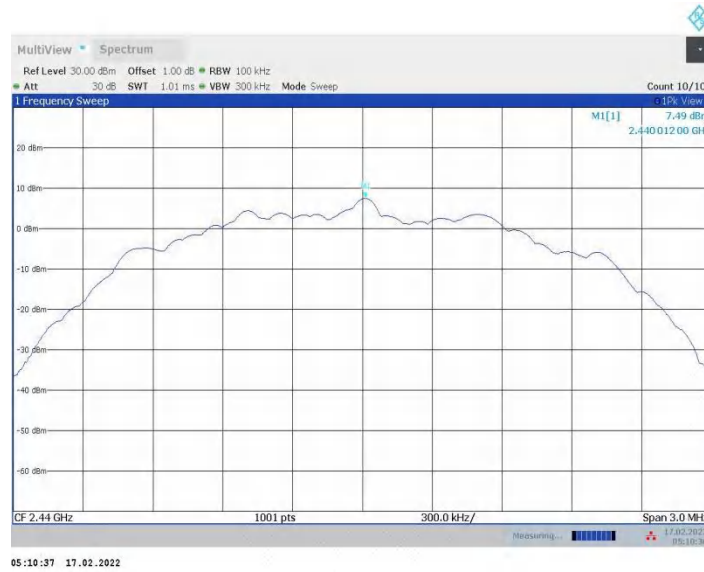
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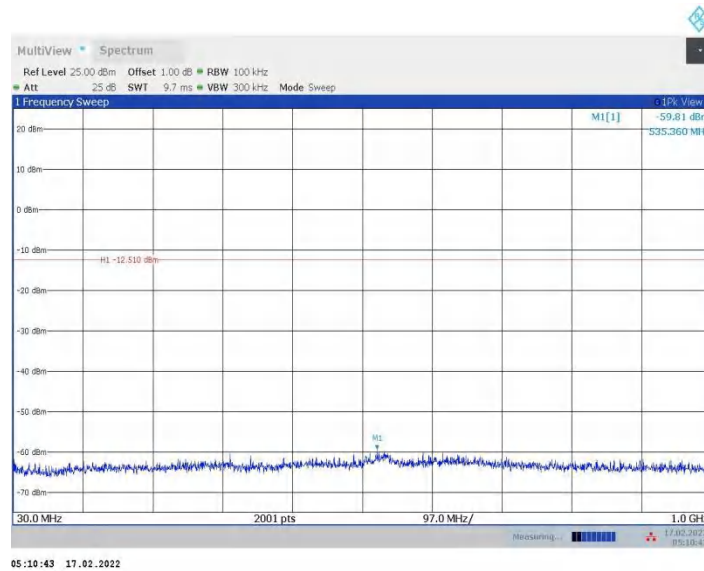
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 1 (86-512) 62992980 sgs.china@sgs.com

BLE_2M_Ant9_2440_0~Reference



BLE_2M_Ant9_2440_30~1000

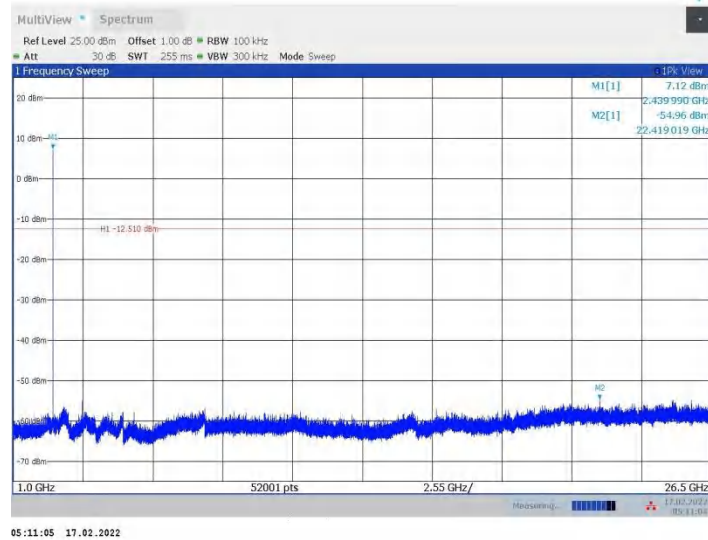


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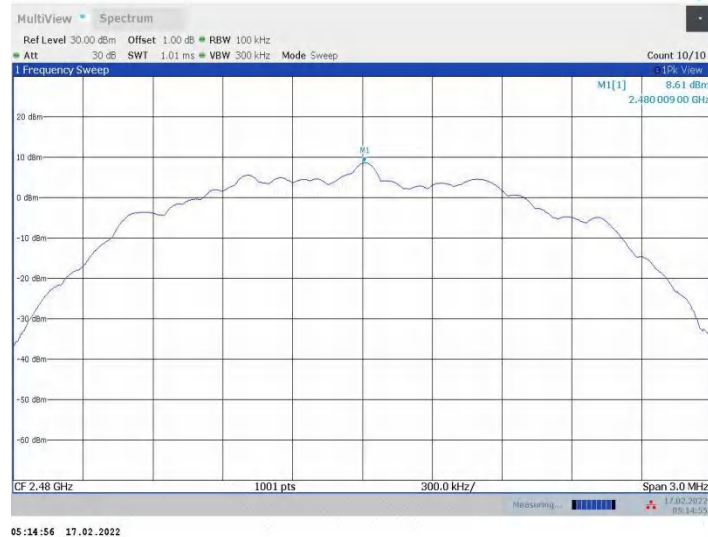
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BLE_2M_Ant9_2440_1000~26500



BLE_2M_Ant9_2480_0~Reference

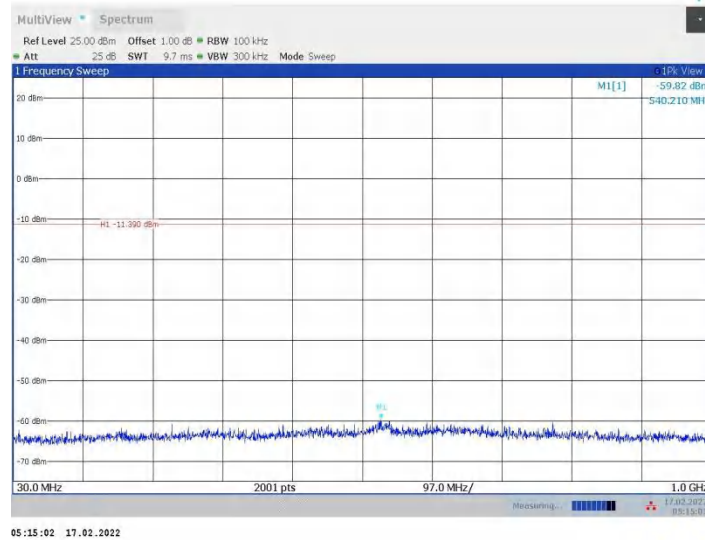


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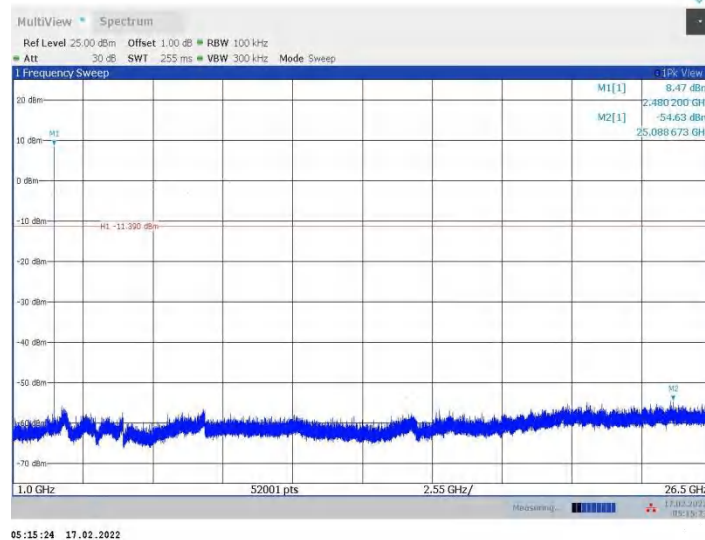
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BLE_2M_Ant9_2480_30~1000



BLE_2M_Ant9_2480_1000~26500



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**Duty Cycle
Test Result**

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant9	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant9	2402	0.21	0.63	33.33	4.77
		2440	0.21	0.63	33.33	4.77
		2480	0.21	0.63	33.33	4.77



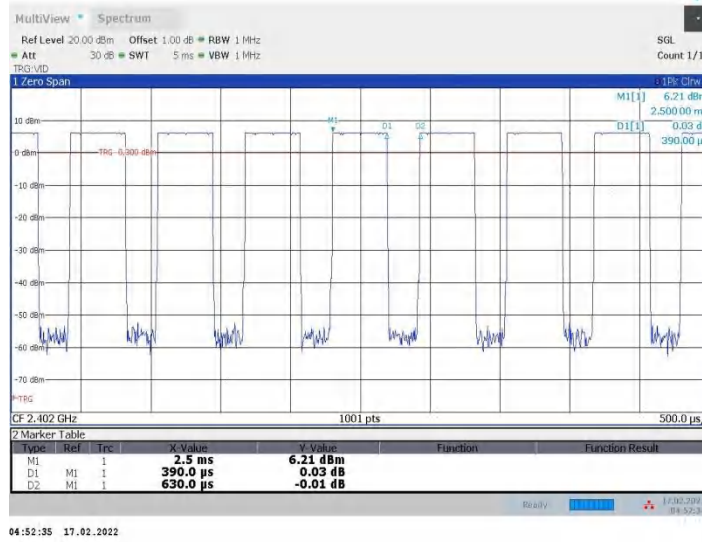
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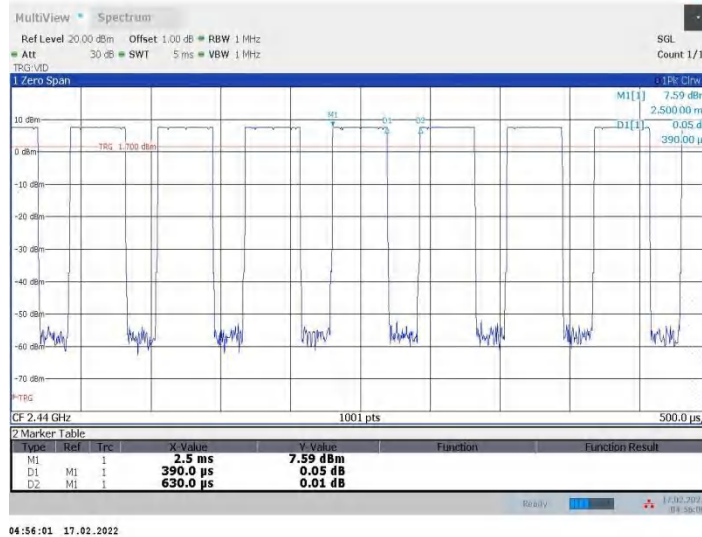
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Test Graphs

BLE_1M_Ant9_2402



BLE_1M_Ant9_2440



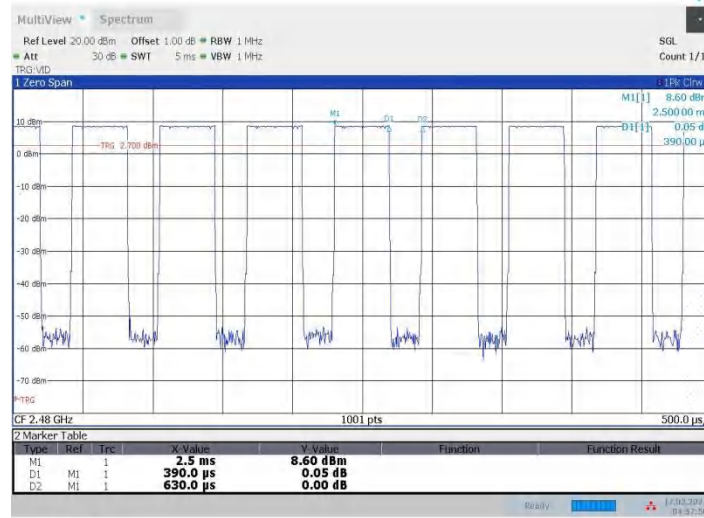
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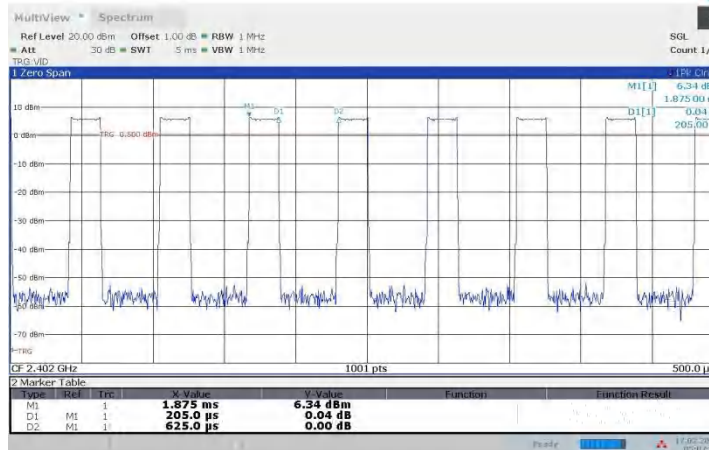
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BLE_1M_Ant9_2480



04:57:51 17.02.2022

BLE_2M_Ant9_2402



05:07:35 17.02.2022



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BLE_2M_Ant9_2440



05:09:20 17.02.2022

BLE_2M_Ant9_2480



05:13:44 17.02.2022



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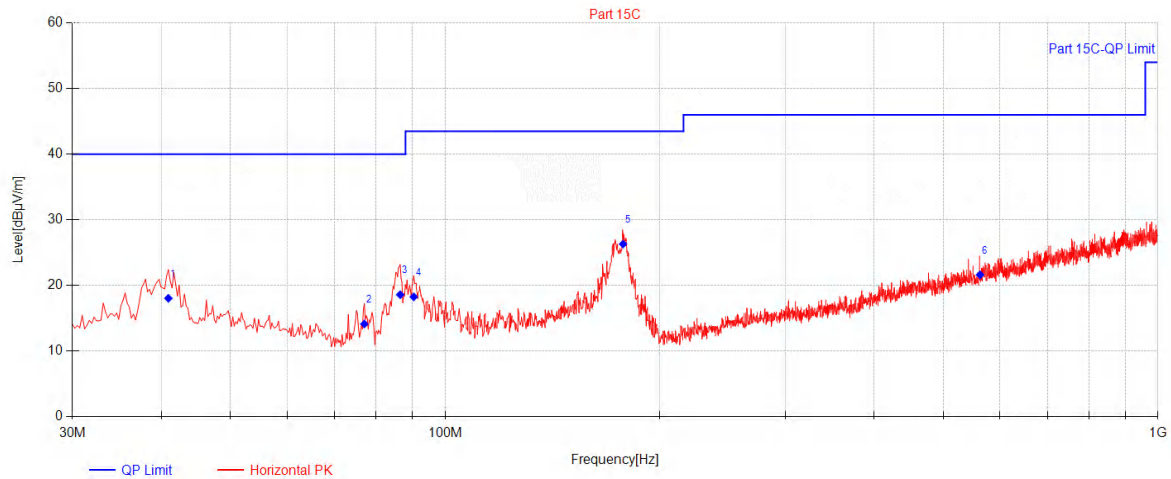
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_LF



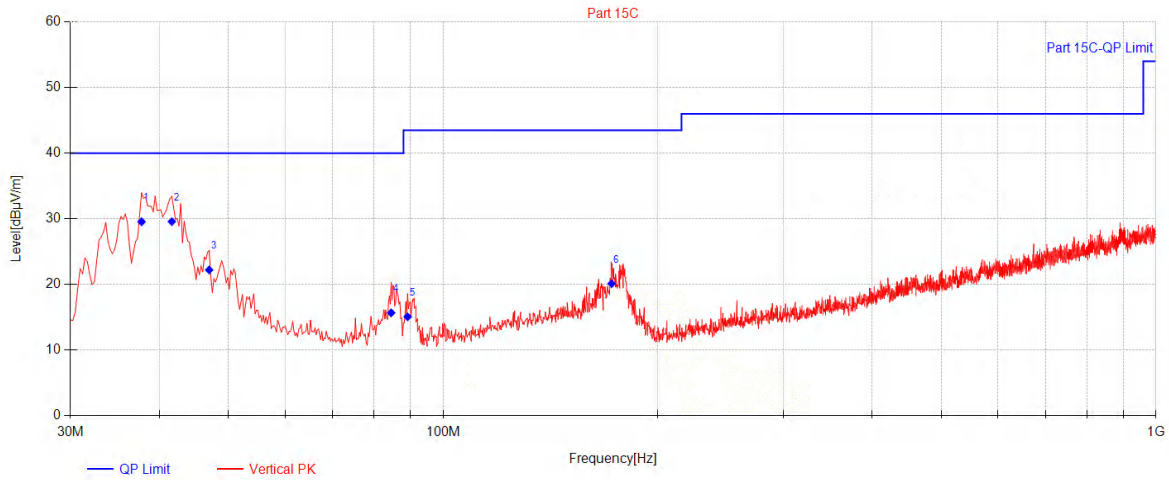
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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.9125	40.29	-22.26	18.03	40.00	21.97	174	172	Horizontal
2	77.045	40.26	-26.15	14.11	40.00	25.89	199	273	Horizontal
3	86.5025	45.33	-26.76	18.57	40.00	21.43	194	293	Horizontal
4	90.3825	45.19	-26.94	18.25	43.50	25.25	114	141	Horizontal
5	177.6825	46.89	-20.59	26.30	43.50	17.20	128	354	Horizontal
6	563.015	36.66	-15.05	21.61	46.00	24.39	138	80	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	37.76	52.15	-22.60	29.55	40.00	10.45	151	320	Vertical	
2	41.64	51.89	-22.32	29.57	40.00	10.43	159	145	Vertical	
3	46.975	44.77	-22.57	22.20	40.00	17.80	166	46	Vertical	
4	84.5625	42.29	-26.64	15.65	40.00	24.35	147	77	Vertical	
5	89.17	41.99	-26.94	15.05	43.50	28.45	132	67	Vertical	
6	172.3475	40.79	-20.69	20.10	43.50	23.40	193	178	Vertical	



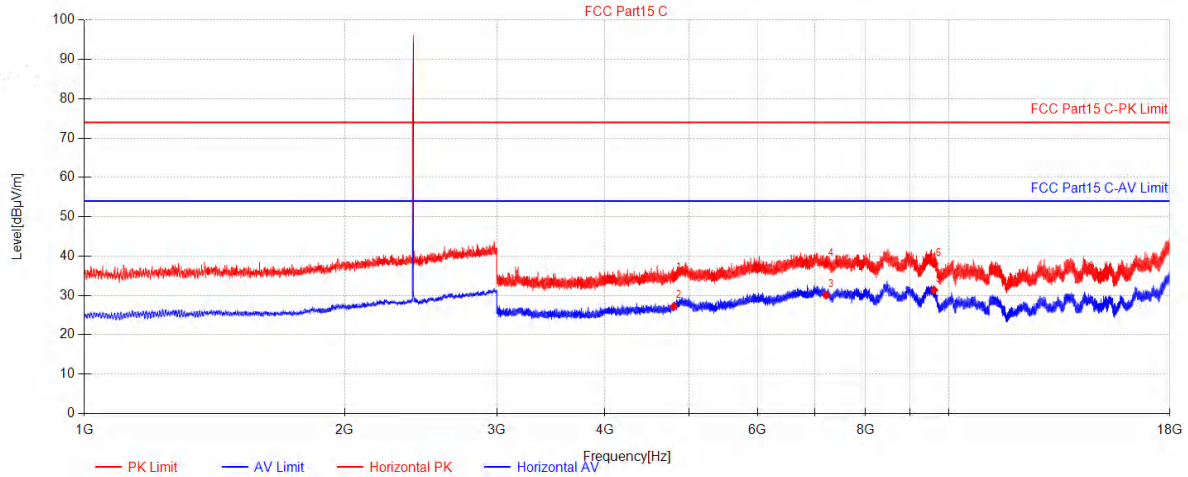
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Transmitter emission above 1GHz

BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.68	-13.21	34.47	74.00	39.53	184	176	Horizontal
2	4804.0000	40.45	-13.21	27.24	54.00	26.76	222	360	Horizontal
3	7206.0000	36.92	-6.84	30.08	54.00	23.92	172	326	Horizontal
4	7206.0000	44.90	-6.84	38.06	74.00	35.94	172	4	Horizontal
5	9608.0000	32.58	-1.22	31.36	54.00	22.64	194	126	Horizontal
6	9608.0000	39.21	-1.22	37.99	74.00	36.01	256	251	Horizontal

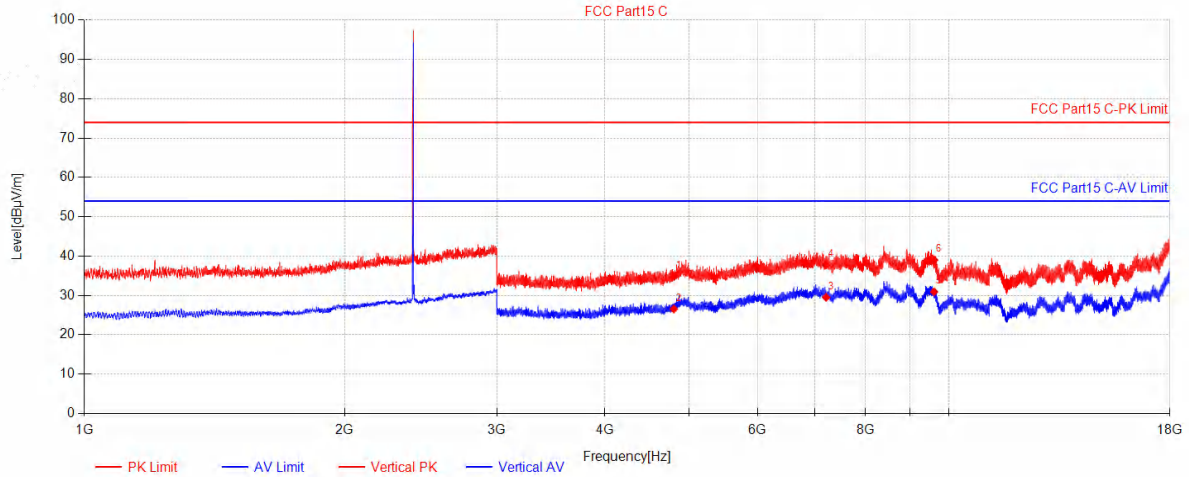


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BLE 1M_Channel 00



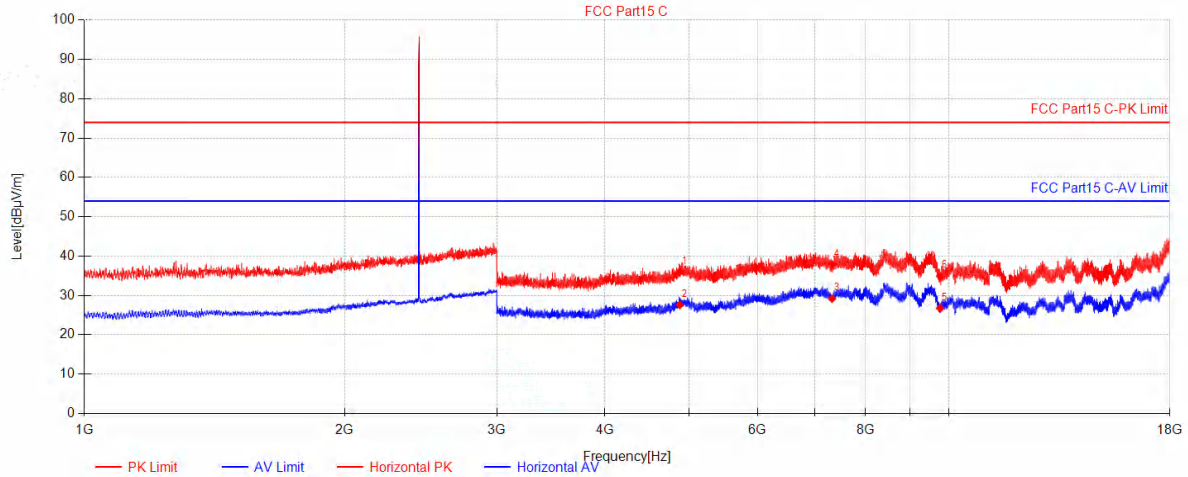
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1	4804.0000	48.05	-13.21	34.84	74.00	39.16	148	227	Vertical
2	4804.0000	39.77	-13.21	26.56	54.00	27.44	188	145	Vertical
3	7206.0000	36.34	-6.84	29.50	54.00	24.50	225	302	Vertical
4	7206.0000	44.62	-6.84	37.78	74.00	36.22	124	25	Vertical
5	9608.0000	32.15	-1.22	30.93	54.00	23.07	197	358	Vertical
6	9608.0000	40.23	-1.22	39.01	74.00	34.99	135	278	Vertical



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BLE 1M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.95	-12.99	35.96	74.00	38.04	148	300	Horizontal
2	4880.0000	40.59	-12.99	27.60	54.00	26.40	160	325	Horizontal
3	7320.0000	36.32	-7.15	29.17	54.00	24.83	144	3	Horizontal
4	7320.0000	45.05	-7.15	37.90	74.00	36.10	194	346	Horizontal
5	9760.0000	27.97	-1.20	26.77	54.00	27.23	235	346	Horizontal
6	9760.0000	36.13	-1.20	34.93	74.00	39.07	172	250	Horizontal

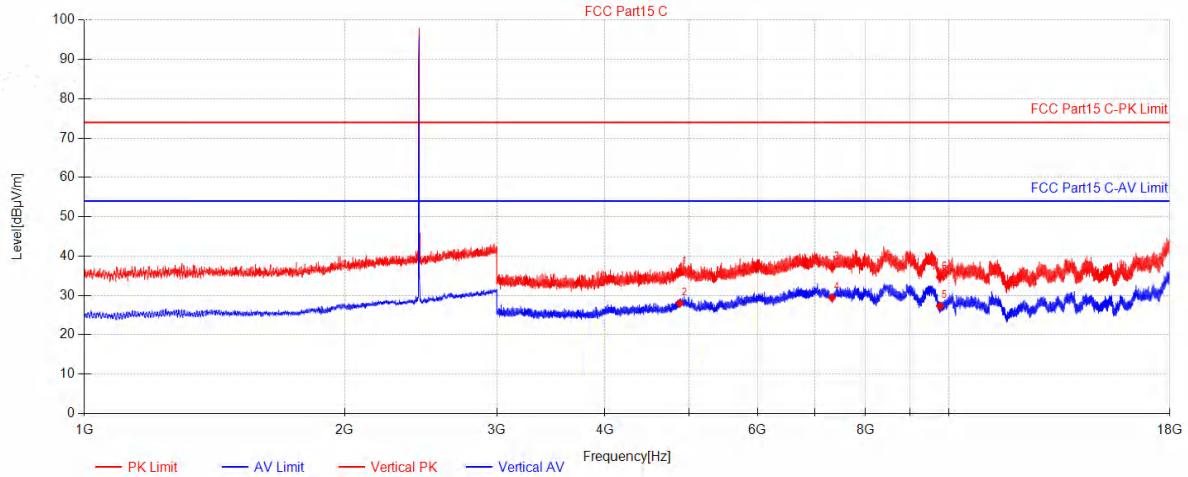


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BLE 1M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.79	-12.99	35.80	74.00	38.20	145	148	Vertical
2	4880.0000	40.98	-12.99	27.99	54.00	26.01	188	177	Vertical
3	7320.0000	44.31	-7.15	37.16	74.00	36.84	194	305	Vertical
4	7320.0000	36.59	-7.15	29.44	54.00	24.56	140	25	Vertical
5	9760.0000	28.51	-1.20	27.31	54.00	26.69	265	203	Vertical
6	9760.0000	35.89	-1.20	34.69	74.00	39.31	172	25	Vertical

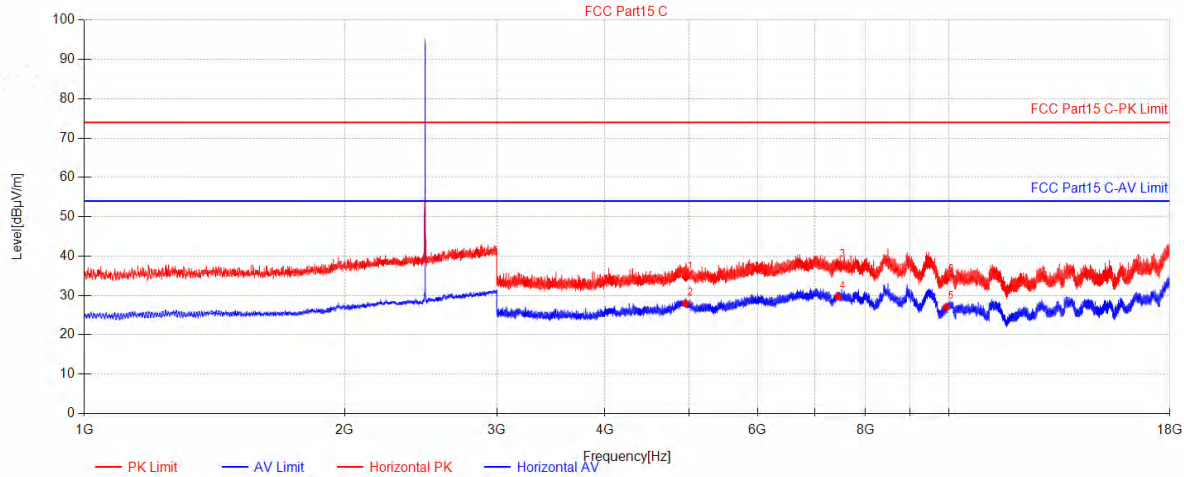


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BLE 1M_Channel 39



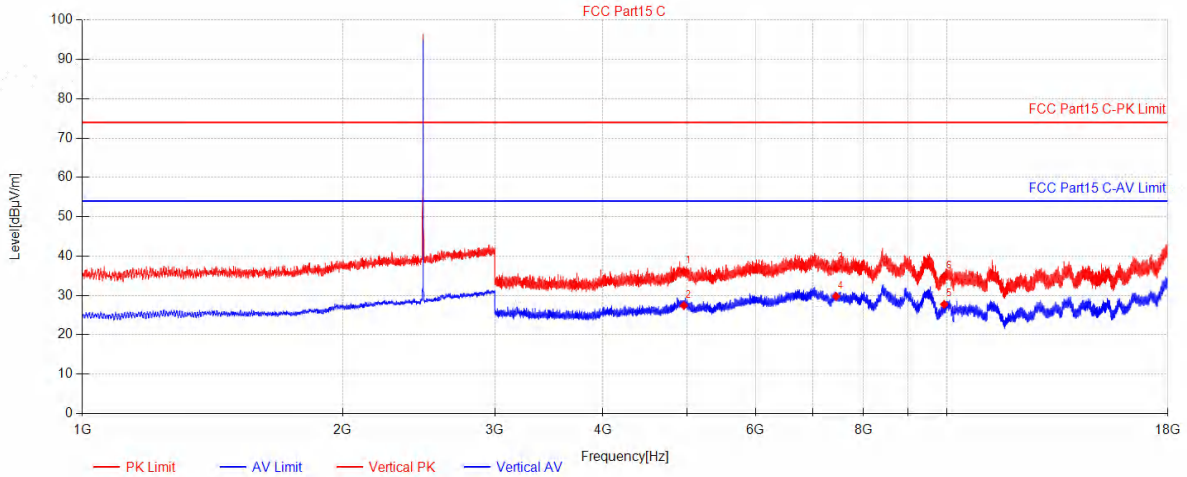
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	47.40	-12.83	34.57	74.00	39.43	148	328	Horizontal
2	4960.0000	40.79	-12.83	27.96	54.00	26.04	258	176	Horizontal
3	7440.0000	44.68	-6.83	37.85	74.00	36.15	124	301	Horizontal
4	7440.0000	36.56	-6.83	29.73	54.00	24.27	197	152	Horizontal
5	9920.0000	27.98	-0.93	27.05	54.00	26.95	168	25	Horizontal
6	9920.0000	34.93	-0.93	34.00	74.00	40.00	135	360	Horizontal



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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	48.86	-12.83	36.03	74.00	37.97	174	277	Vertical
2	4960.0000	40.25	-12.83	27.42	54.00	26.58	203	102	Vertical
3	7440.0000	43.71	-6.83	36.88	74.00	37.12	259	251	Vertical
4	7440.0000	36.61	-6.83	29.78	54.00	24.22	144	328	Vertical
5	9920.0000	28.66	-0.93	27.73	54.00	26.27	235	102	Vertical
6	9920.0000	35.80	-0.93	34.87	74.00	39.13	142	360	Vertical

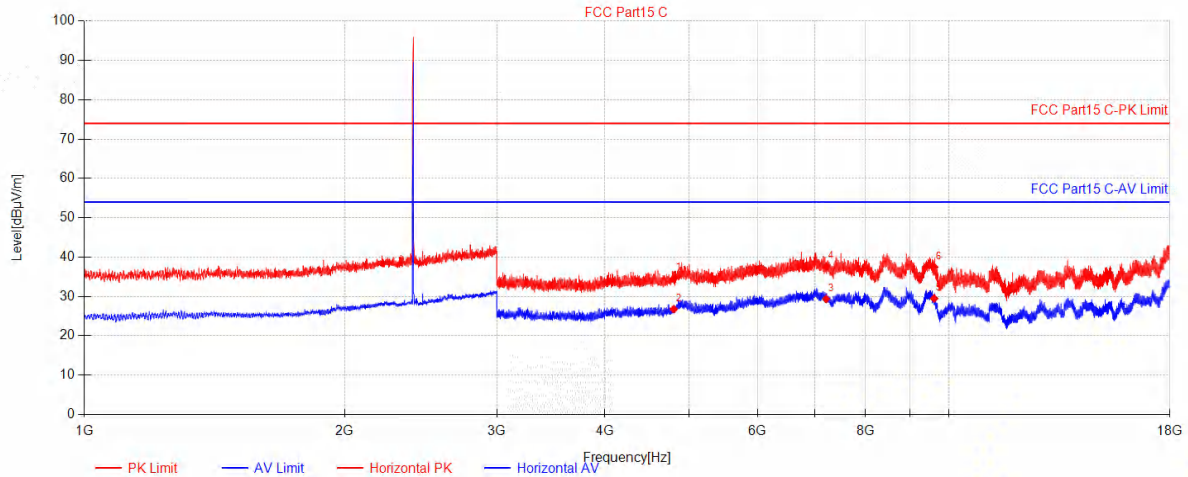


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BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.74	-13.21	34.53	74.00	39.47	184	348	Horizontal
2	4804.0000	39.99	-13.21	26.78	54.00	27.22	147	203	Horizontal
3	7206.0000	36.17	-6.84	29.33	54.00	24.67	269	326	Horizontal
4	7206.0000	44.40	-6.84	37.56	74.00	36.44	172	203	Horizontal
5	9608.0000	30.72	-1.22	29.50	54.00	24.50	133	153	Horizontal
6	9608.0000	38.68	-1.22	37.46	74.00	36.54	255	358	Horizontal

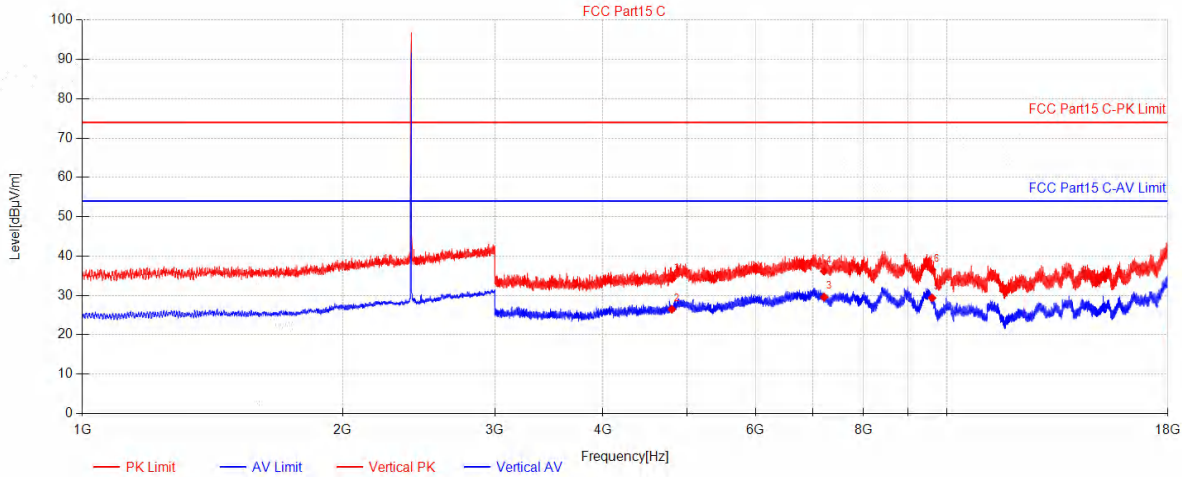


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 1 (86-512) 62992980 sgs.china@sgs.com

BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.46	-13.21	34.25	74.00	39.75	185	250	Vertical
2	4804.0000	39.69	-13.21	26.48	54.00	27.52	201	328	Vertical
3	7206.0000	36.43	-6.84	29.59	54.00	24.41	172	24	Vertical
4	7206.0000	43.01	-6.84	36.17	74.00	37.83	142	4	Vertical
5	9608.0000	30.59	-1.22	29.37	54.00	24.63	194	4	Vertical
6	9608.0000	37.73	-1.22	36.51	74.00	37.49	236	148	Vertical

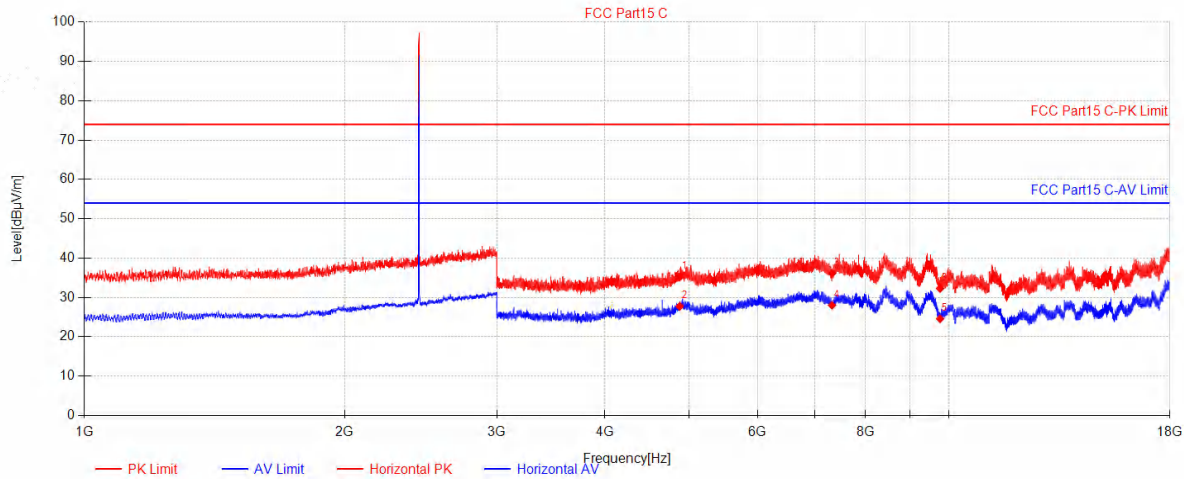


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BLE 2M_Channel 19



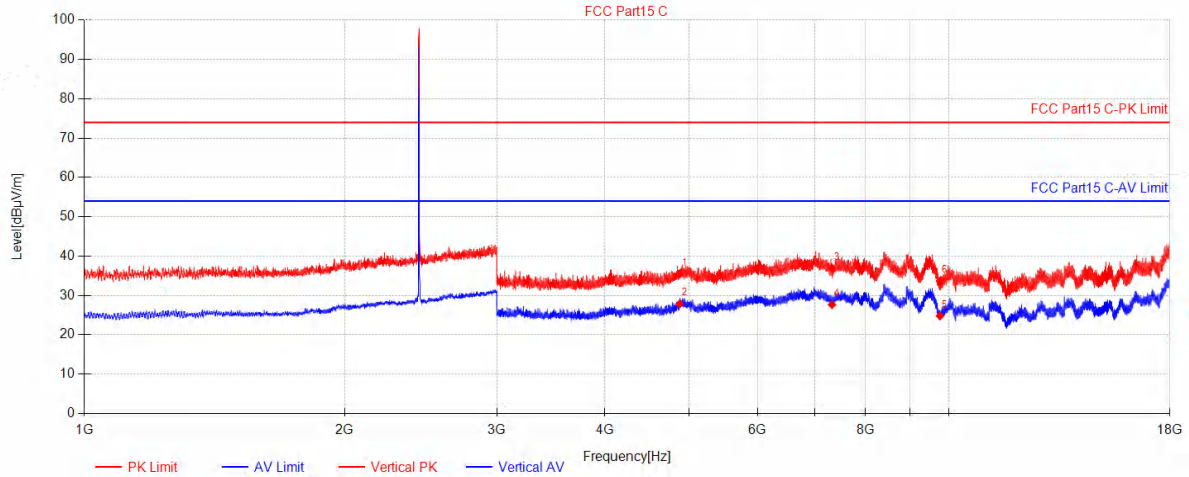
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.20	-12.99	35.21	74.00	38.79	142	148	Horizontal
2	4880.0000	40.72	-12.99	27.73	54.00	26.27	160	203	Horizontal
3	7320.0000	43.26	-7.15	36.11	74.00	37.89	198	155	Horizontal
4	7320.0000	35.16	-7.15	28.01	54.00	25.99	233	299	Horizontal
5	9760.0000	25.78	-1.20	24.58	54.00	29.42	241	227	Horizontal
6	9760.0000	33.48	-1.20	32.28	74.00	41.72	175	176	Horizontal



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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.42	-12.99	35.43	74.00	38.57	233	145	Vertical
2	4880.0000	40.85	-12.99	27.86	54.00	26.14	190	75	Vertical
3	7320.0000	44.08	-7.15	36.93	74.00	37.07	172	301	Vertical
4	7320.0000	34.80	-7.15	27.65	54.00	26.35	194	251	Vertical
5	9760.0000	25.99	-1.20	24.79	54.00	29.21	155	75	Vertical
6	9760.0000	34.87	-1.20	33.67	74.00	40.33	206	255	Vertical

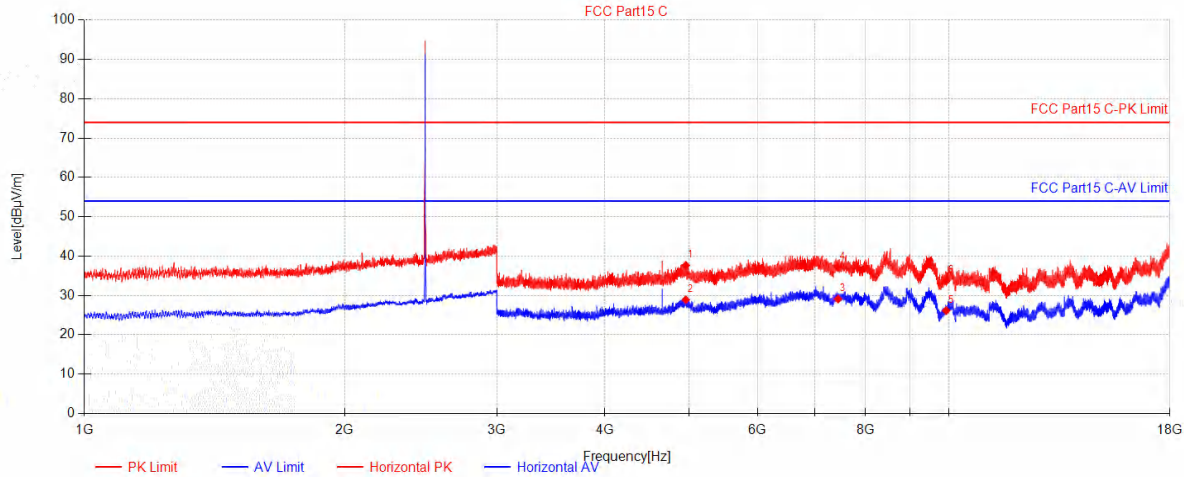


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BLE 2M_Channel 39



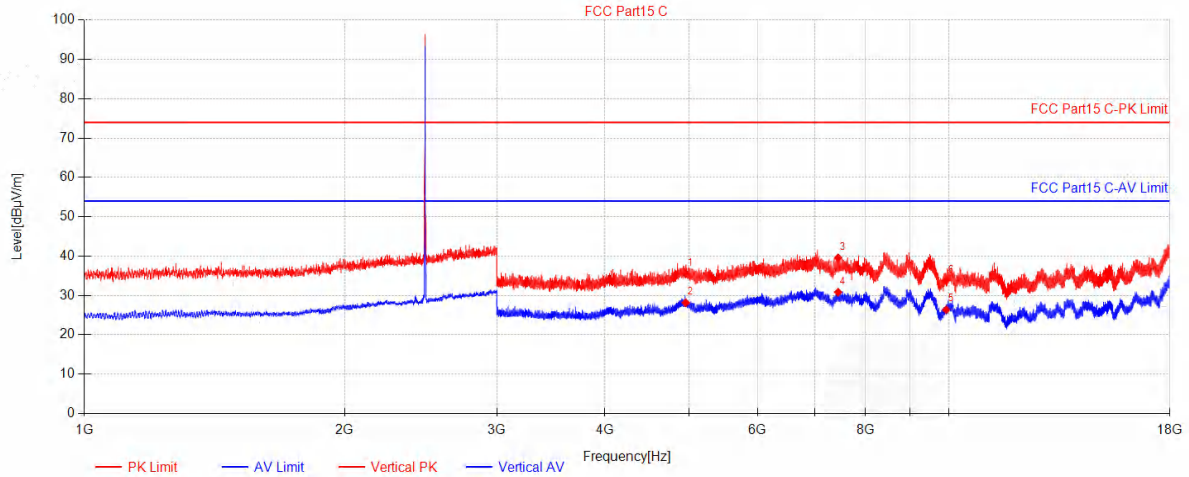
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.51	-12.83	37.68	74.00	36.32	148	25	Horizontal
2	4960.0000	41.75	-12.83	28.92	54.00	25.08	148	50	Horizontal
3	7440.0000	35.91	-6.83	29.08	54.00	24.92	269	25	Horizontal
4	7440.0000	43.99	-6.83	37.16	74.00	36.84	194	50	Horizontal
5	9920.0000	27.06	-0.93	26.13	54.00	27.87	233	360	Horizontal
6	9920.0000	34.62	-0.93	33.69	74.00	40.31	172	126	Horizontal



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BLE 2M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	48.31	-12.83	35.48	74.00	38.52	188	24	Vertical
2	4960.0000	40.97	-12.83	28.14	54.00	25.86	222	142	Vertical
3	7440.0000	46.39	-6.83	39.56	74.00	34.44	142	202	Vertical
4	7440.0000	37.67	-6.83	30.84	54.00	23.16	172	358	Vertical
5	9920.0000	27.31	-0.93	26.38	54.00	27.62	194	276	Vertical
6	9920.0000	34.76	-0.93	33.83	74.00	40.17	235	252	Vertical

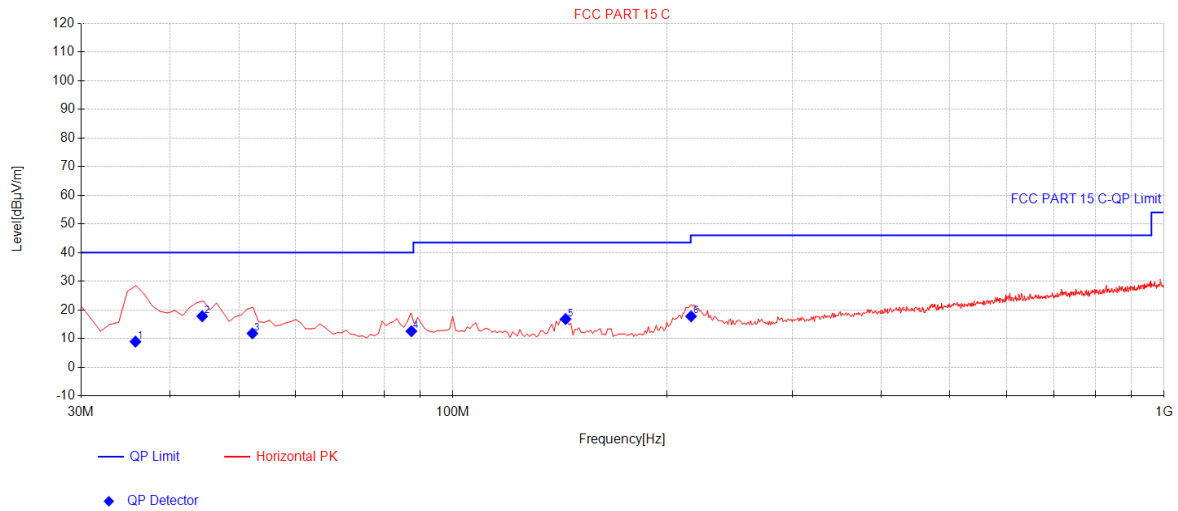


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Radiated emission below 1GHz
Worst case Mode: BLE 1M_LF



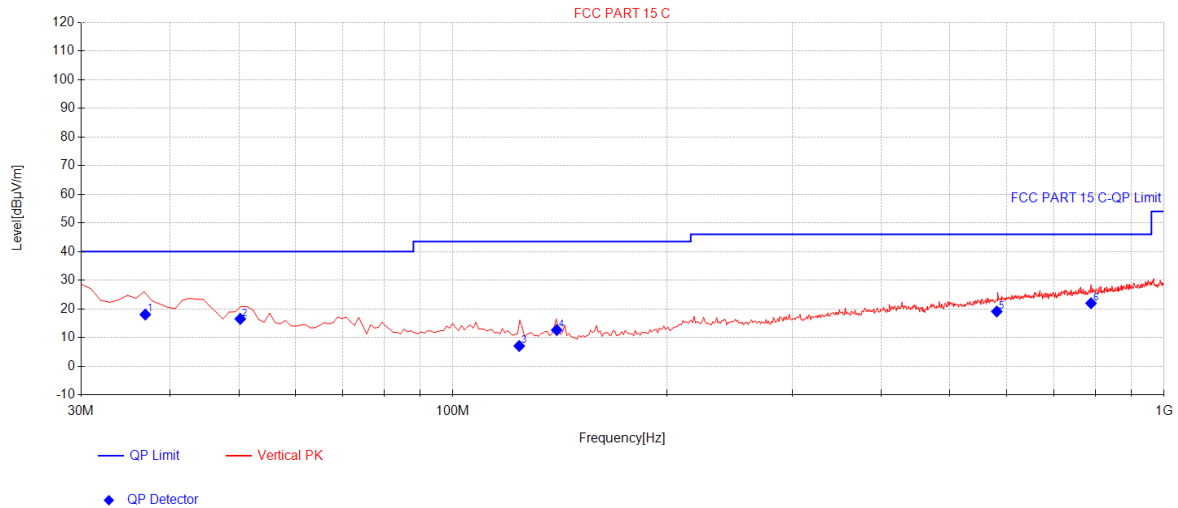
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.7797	26.29	-17.36	8.93	40.00	31.07	162	353	Horizontal
2	44.4059	32.82	-15.04	17.78	40.00	22.22	145	354.6	Horizontal
3	52.2482	26.47	-14.68	11.79	40.00	28.21	217	352.2	Horizontal
4	87.4149	31.49	-18.92	12.57	40.00	27.43	174	0	Horizontal
5	144.0151	36.71	-19.91	16.80	43.50	26.70	218	257	Horizontal
6	216.2103	32.94	-15.19	17.75	46.00	28.25	211	0	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	36.9358	35.07	-17.04	18.03	40.00	21.97	111	173.3	Vertical	
2	50.2307	30.80	-14.29	16.51	40.00	23.49	264	227.8	Vertical	
3	123.9488	25.71	-18.64	7.07	43.50	36.43	185	172.7	Vertical	
4	139.9522	32.24	-19.62	12.62	43.50	30.88	264	61.8	Vertical	
5	581.7856	25.18	-6.10	19.08	46.00	26.92	185	349.2	Vertical	
6	789.4018	24.87	-2.90	21.97	46.00	24.03	189	288.7	Vertical	



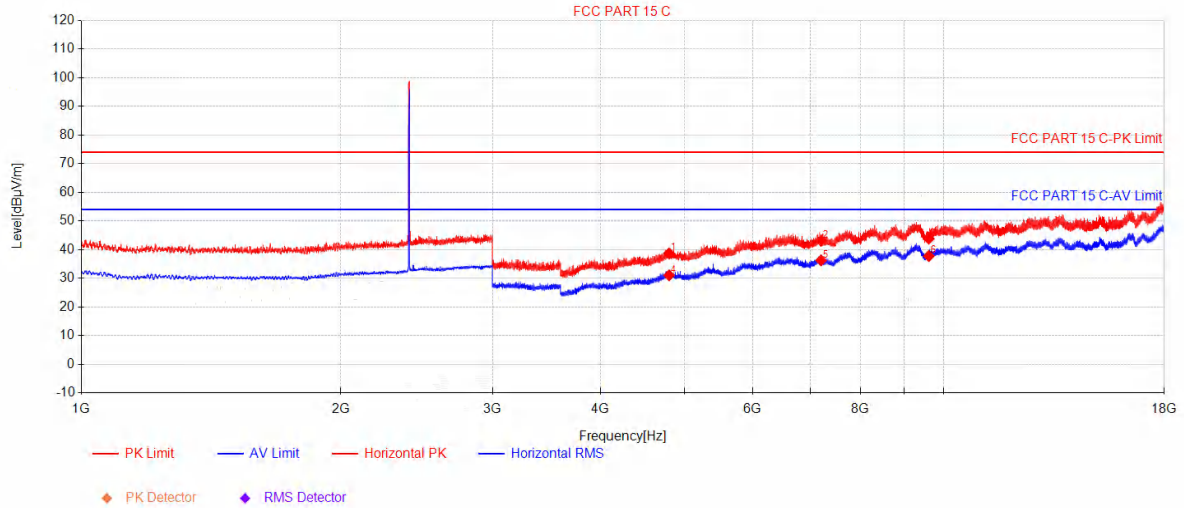
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Transmitter emission above 1GHz

BLE 1M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	51.00	-12.33	38.67	74.00	35.33	169	255	Horizontal
2	7206	48.99	-5.91	43.08	74.00	30.92	274	0	Horizontal
3	9608	43.29	0.49	43.78	74.00	30.22	186	123	Horizontal
4	4804	43.36	-12.33	31.03	54.00	22.97	322	255	Horizontal
5	7206	42.12	-5.91	36.21	54.00	17.79	218	266	Horizontal
6	9608	37.26	0.49	37.75	54.00	16.25	217	266	Horizontal

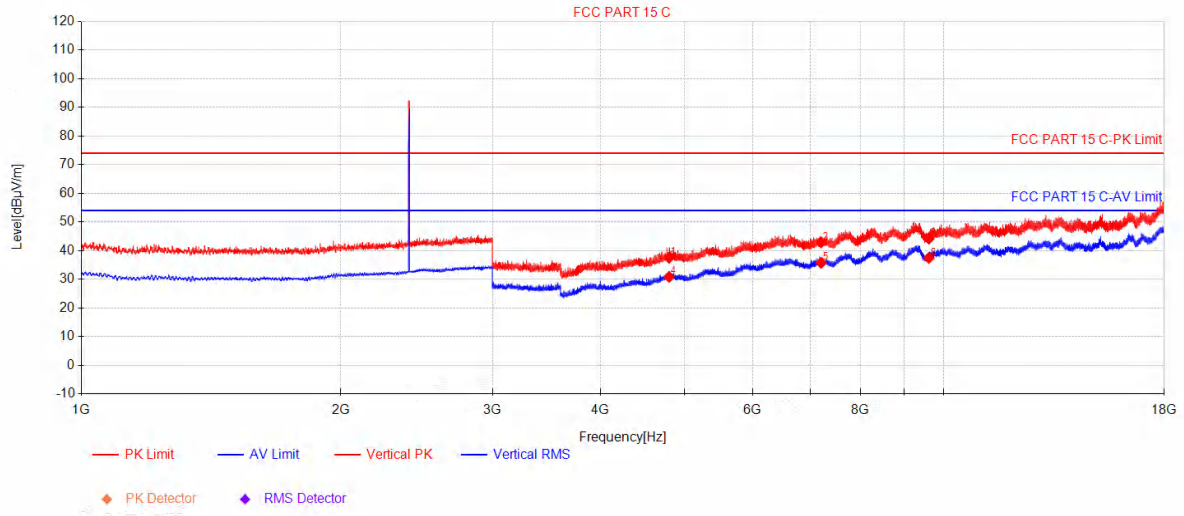


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BLE 1M_Channel 00



Data List

NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	49.84	-12.33	37.51	74.00	36.49	264	357	Vertical
2	7206	48.74	-5.91	42.83	74.00	31.17	285	225	Vertical
3	9608	43.65	0.49	44.14	74.00	29.86	145	192	Vertical
4	4804	43.13	-12.33	30.80	54.00	23.20	261	57	Vertical
5	7206	41.63	-5.91	35.72	54.00	18.28	175	21	Vertical
6	9608	36.90	0.49	37.39	54.00	16.61	264	21	Vertical

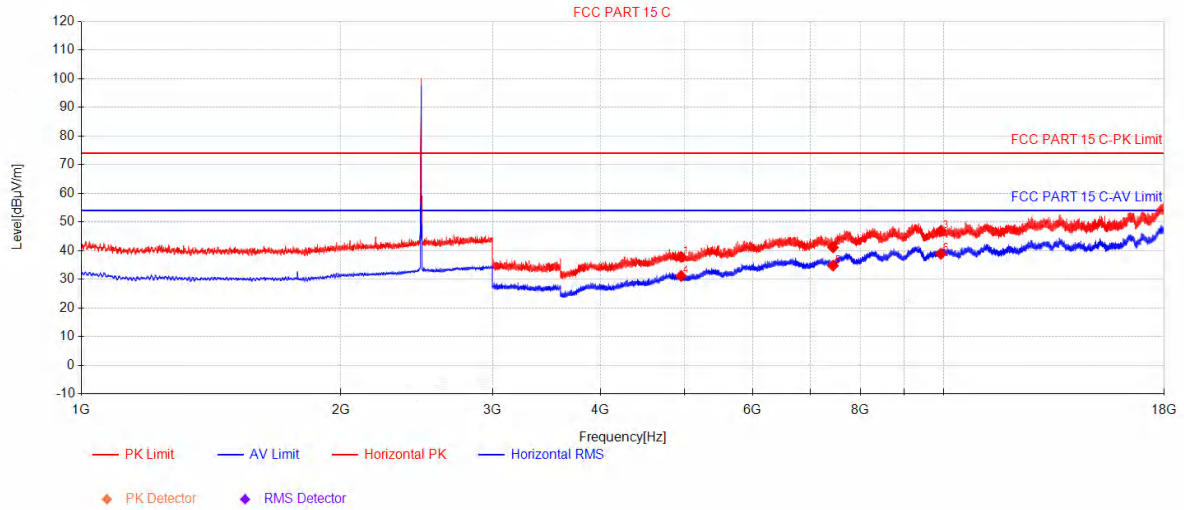


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BLE 1M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.17	-12.41	37.76	74.00	36.24	264	51	Horizontal
2	7440	46.48	-5.36	41.12	74.00	32.88	188	294	Horizontal
3	9920	45.52	1.29	46.81	74.00	27.19	196	294	Horizontal
4	4960	43.54	-12.41	31.13	54.00	22.87	241	152	Horizontal
5	7440	40.09	-5.36	34.73	54.00	19.27	175	18	Horizontal
6	9920	37.59	1.29	38.88	54.00	15.12	264	327	Horizontal

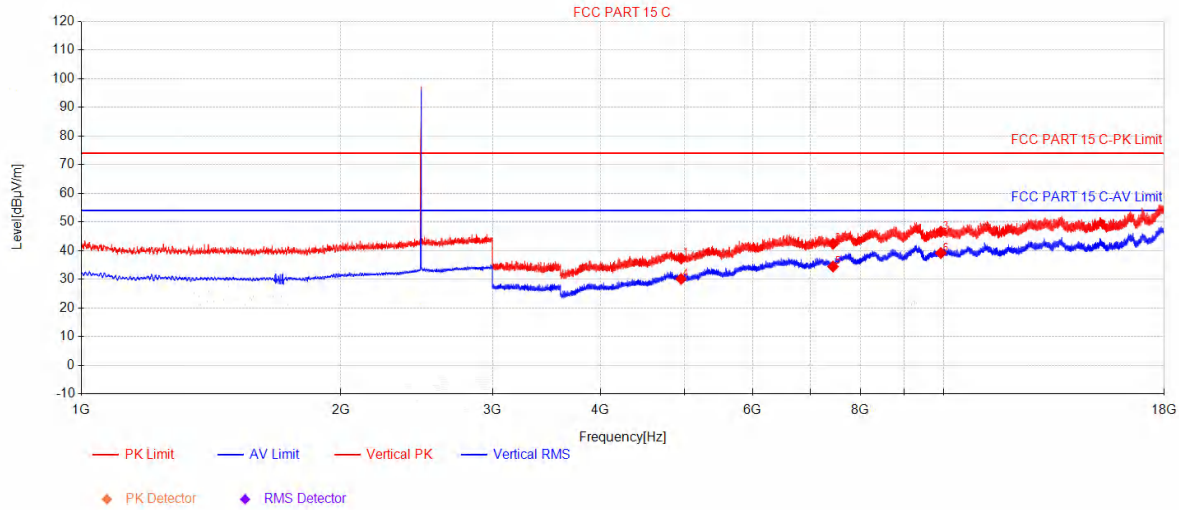


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BLE 1M_Channel 39



Data List

NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.67	-12.41	37.26	74.00	36.74	162	292	Vertical
2	7440	47.74	-5.36	42.38	74.00	31.62	284	357	Vertical
3	9920	45.29	1.29	46.58	74.00	27.42	196	18	Vertical
4	4960	42.53	-12.41	30.12	54.00	23.88	214	152	Vertical
5	7440	39.78	-5.36	34.42	54.00	19.58	185	0	Vertical
6	9920	37.84	1.29	39.13	54.00	14.87	264	2	Vertical

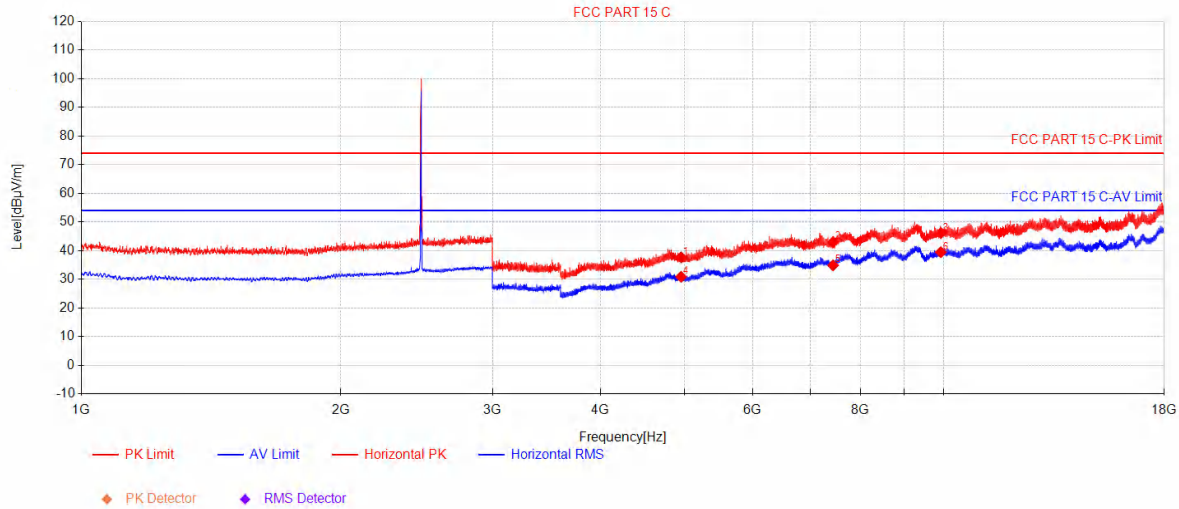


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BLE 2M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	50.02	-12.41	37.61	74.00	36.39	261	341	Horizontal
2	7440	48.35	-5.36	42.99	74.00	31.01	185	236	Horizontal
3	9920	44.79	1.29	46.08	74.00	27.92	264	136	Horizontal
4	4960	43.27	-12.41	30.86	54.00	23.14	321	360	Horizontal
5	7440	40.19	-5.36	34.83	54.00	19.17	241	100	Horizontal
6	9920	38.14	1.29	39.43	54.00	14.57	196	358	Horizontal

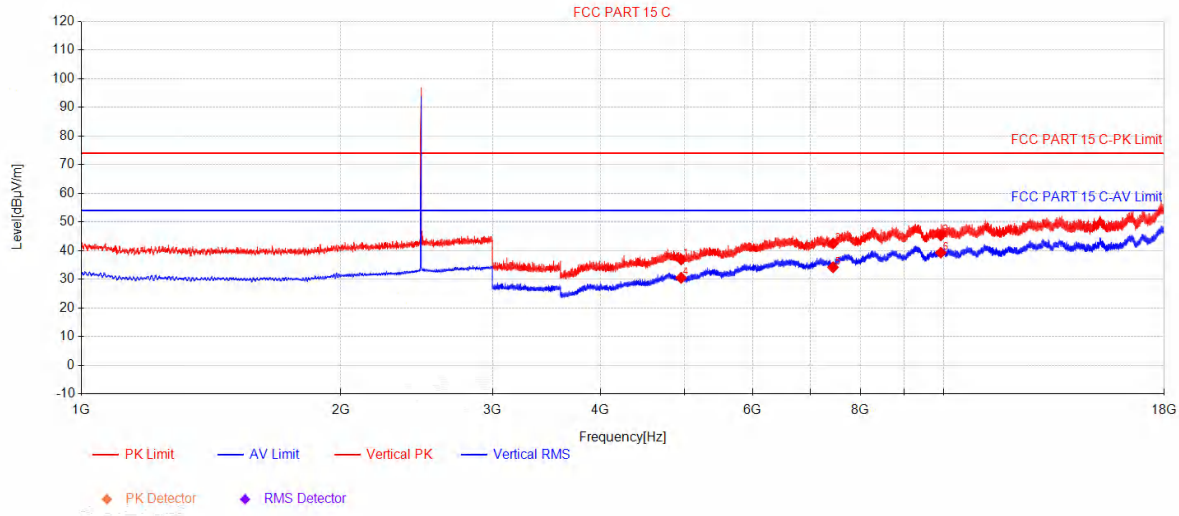


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BLE 2M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	49.30	-12.41	36.89	74.00	37.11	296	70	Vertical
2	7440	47.84	-5.36	42.48	74.00	31.52	261	104	Vertical
3	9920	43.99	1.29	45.28	74.00	28.72	185	35	Vertical
4	4960	42.89	-12.41	30.48	54.00	23.52	185	3	Vertical
5	7440	39.53	-5.36	34.17	54.00	19.83	142	204	Vertical
6	9920	37.97	1.29	39.26	54.00	14.74	299	137	Vertical

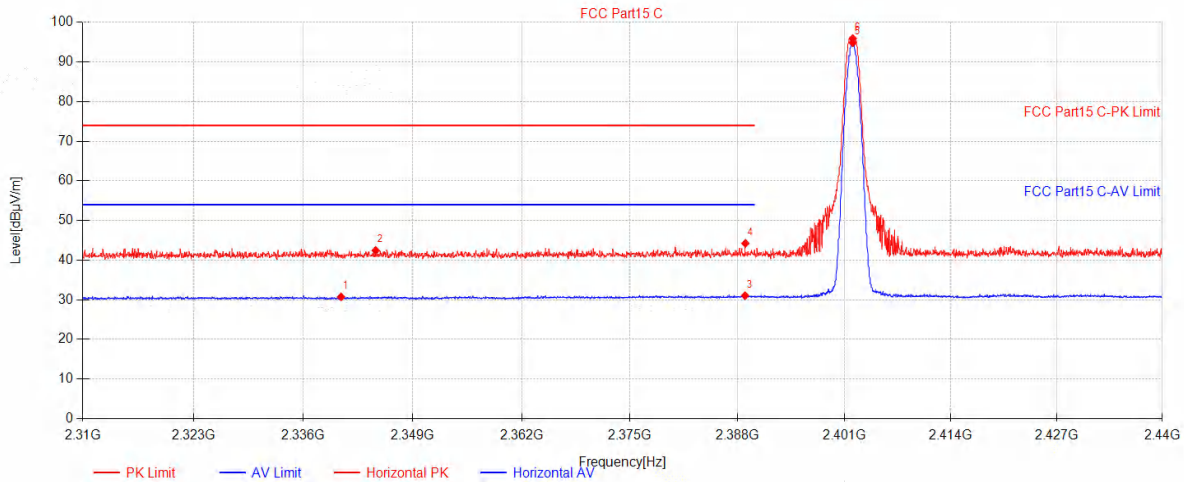


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Restricted bands around fundamental frequency

BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2340.4633	27.62	3.09	30.71	54.00	23.29	126	357	Horizontal
2	2344.58	39.34	3.09	42.43	74.00	31.57	126	357	Horizontal
3	2388.91	27.97	3.07	31.04	54.00	22.96	126	357	Horizontal
4	2388.9533	41.16	3.07	44.23	74.00	29.77	126	357	Horizontal
5	2402.0000	91.78	3.08	94.86	-	-	126	357	Horizontal
6	2402.0000	92.83	3.08	95.91	-	-	126	357	Horizontal

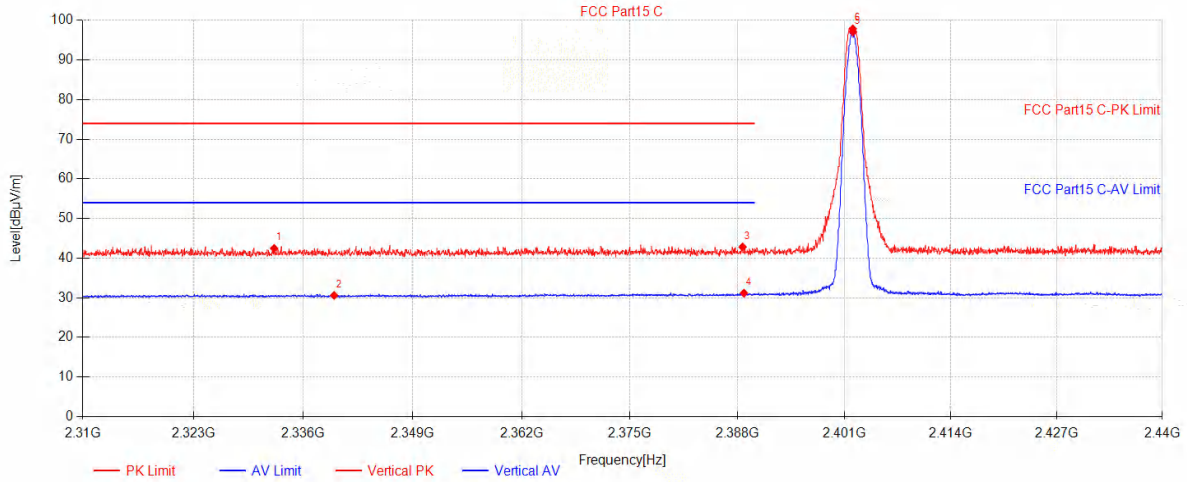


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BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2332.5333	39.36	3.09	42.45	74.00	31.55	158	173	Vertical
2	2339.64	27.52	3.09	30.61	54.00	23.39	158	173	Vertical
3	2388.6067	39.74	3.07	42.81	74.00	31.19	158	173	Vertical
4	2388.78	28.10	3.07	31.17	54.00	22.83	158	173	Vertical
5	2402.0000	93.95	3.08	97.03	-	-	158	173	Vertical
6	2402.0000	94.79	3.08	97.87	-	-	158	173	Vertical

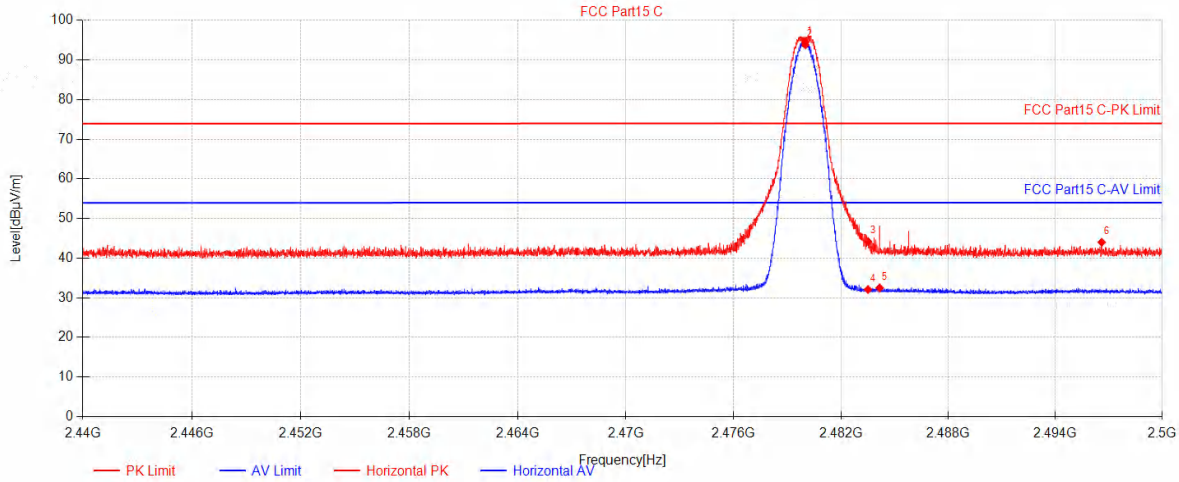


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 1 (86-512) 62992880 sgs.china@sgs.com

BLE 1M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	90.95	3.57	94.52	-	-	177	339	Horizontal
2	2480.0000	90.24	3.57	93.81	-	-	177	339	Horizontal
3	2483.5000	40.58	3.60	44.18	74.00	29.82	177	339	Horizontal
4	2483.5000	28.47	3.60	32.07	54.00	21.93	177	339	Horizontal
5	2484.1525	28.89	3.60	32.49	54.00	21.51	177	339	Horizontal
6	2496.595	40.32	3.68	44.00	74.00	30.00	177	339	Horizontal

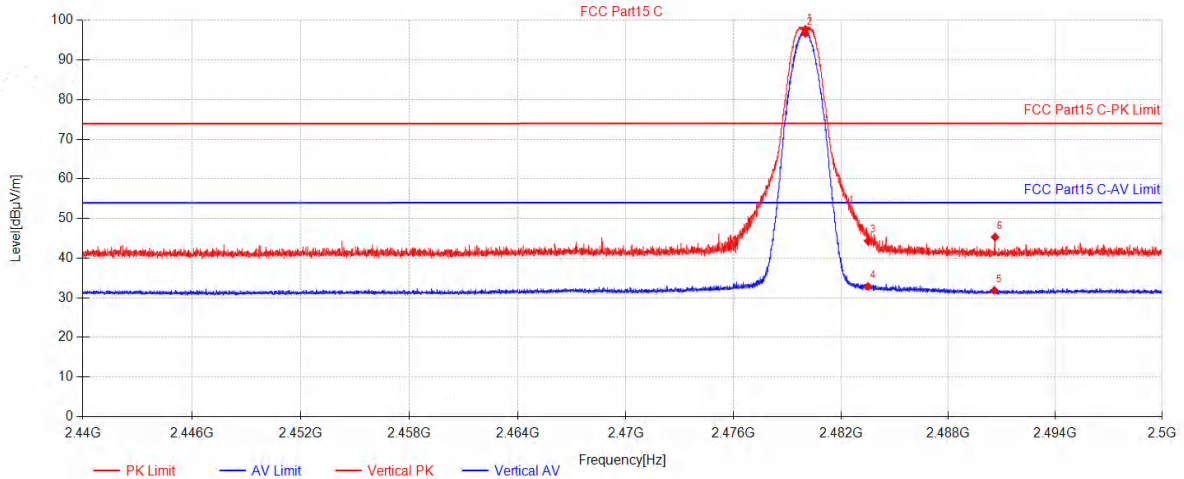


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BLE 1M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	94.14	3.57	97.71	-	-	269	93	Vertical
2	2480.0000	93.14	3.57	96.71	-	-	269	93	Vertical
3	2483.5000	40.76	3.60	44.36	74.00	29.64	269	93	Vertical
4	2483.5000	29.25	3.60	32.85	54.00	21.15	269	93	Vertical
5	2490.565	28.24	3.64	31.88	54.00	22.12	269	93	Vertical
6	2490.61	41.69	3.64	45.33	74.00	28.67	269	93	Vertical

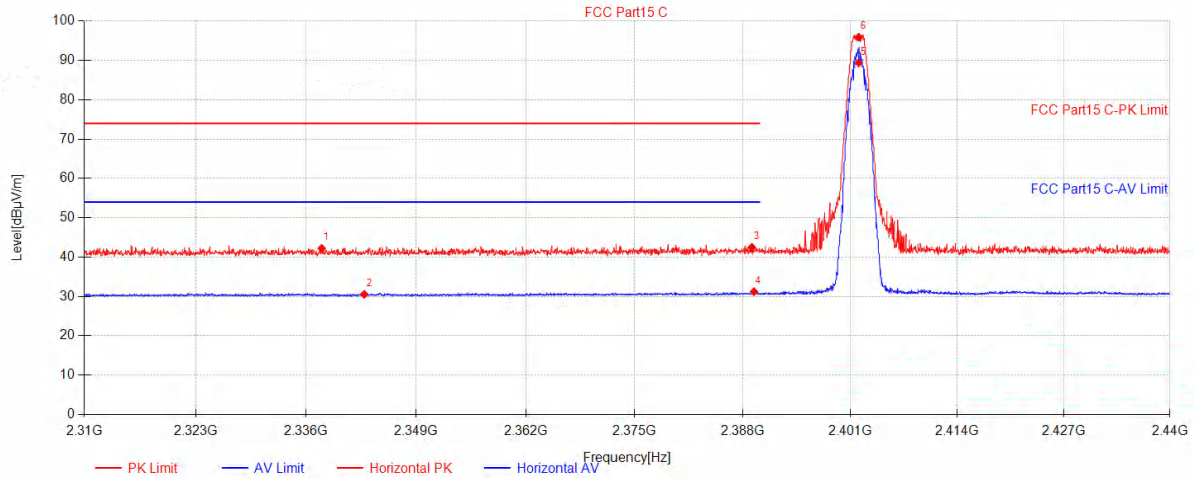


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BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2337.82	39.12	3.09	42.21	74.00	31.79	169	340	Horizontal
2	2342.8467	27.46	3.09	30.55	54.00	23.45	169	340	Horizontal
3	2389.0833	39.42	3.07	42.49	74.00	31.51	169	340	Horizontal
4	2389.3433	28.14	3.07	31.21	54.00	22.79	169	340	Horizontal
5	2402.0000	86.26	3.08	89.34	-	-	169	340	Horizontal
6	2402.0000	92.85	3.08	95.93	-	-	169	340	Horizontal

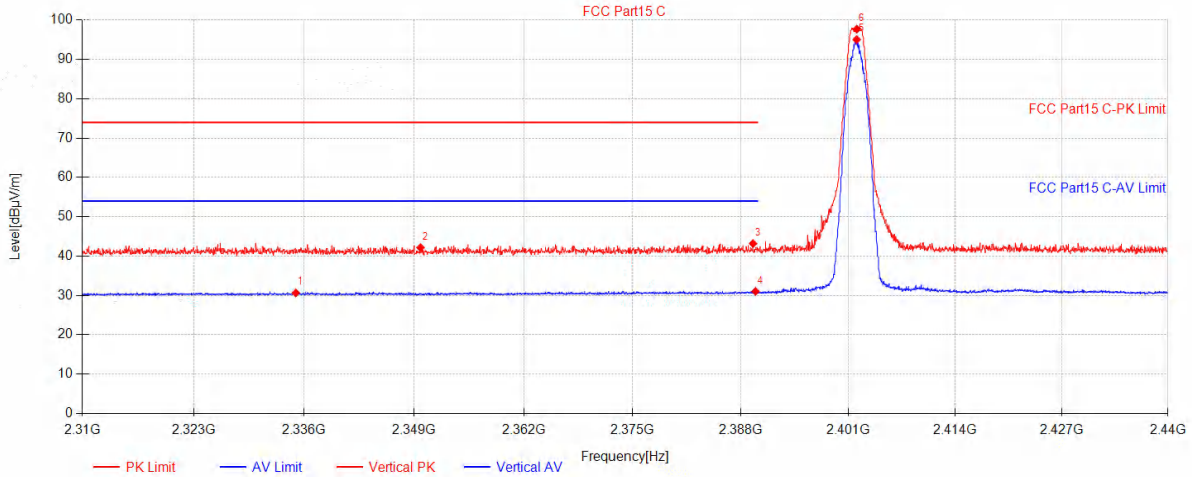


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BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2335.0033	27.55	3.09	30.64	54.00	23.36	188	242	Vertical
2	2349.7367	39.07	3.09	42.16	74.00	31.84	188	242	Vertical
3	2389.4733	40.12	3.07	43.19	74.00	30.81	188	242	Vertical
4	2389.7767	27.96	3.07	31.03	54.00	22.97	188	242	Vertical
5	2402.0000	91.97	3.08	95.05	-	-	188	242	Vertical
6	2402.0000	94.61	3.08	97.69	-	-	188	242	Vertical

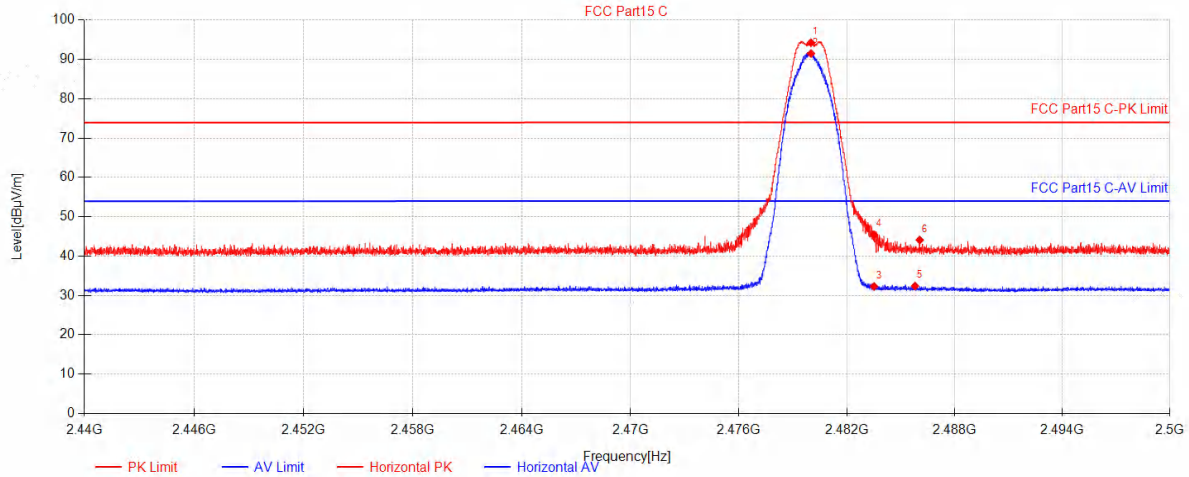


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BLE 2M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	90.66	3.57	94.23	-	-	122	218	Horizontal
2	2480.0000	87.91	3.57	91.48	-	-	122	218	Horizontal
3	2483.5000	28.69	3.60	32.29	54.00	21.71	122	218	Horizontal
4	2483.5000	41.84	3.60	45.44	74.00	28.56	122	218	Horizontal
5	2485.78	28.79	3.61	32.40	54.00	21.60	122	218	Horizontal
6	2486.0425	40.47	3.61	44.08	74.00	29.92	122	218	Horizontal

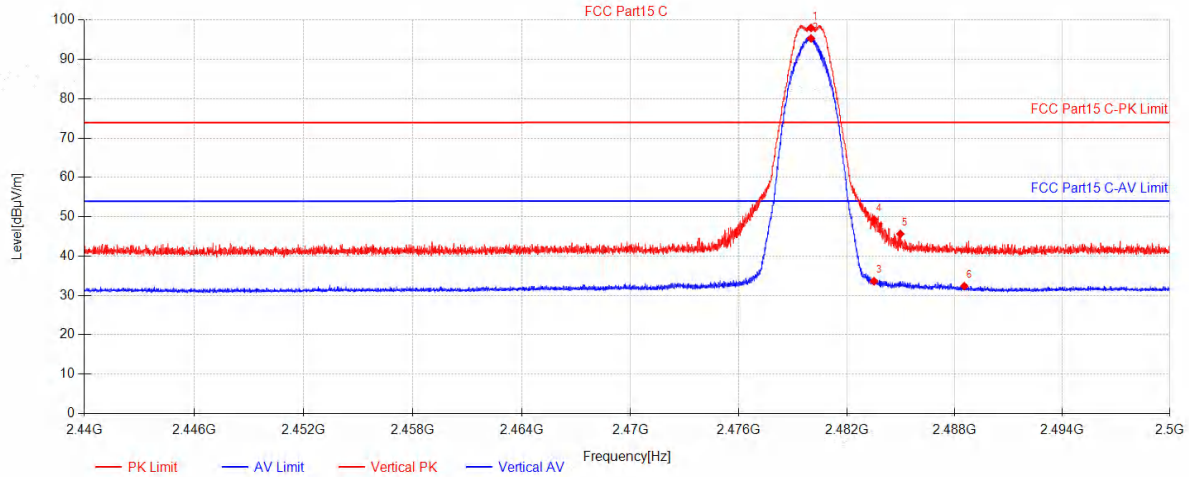


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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	94.43	3.57	98.00	-	-	286	108	Vertical
2	2480.0000	91.73	3.57	95.30	-	-	286	108	Vertical
3	2483.5000	30.03	3.60	33.63	54.00	20.37	286	108	Vertical
4	2483.5000	45.75	3.60	49.35	74.00	24.65	286	108	Vertical
5	2484.9625	42.01	3.61	45.62	74.00	28.38	286	108	Vertical
6	2488.525	28.74	3.63	32.37	54.00	21.63	286	108	Vertical



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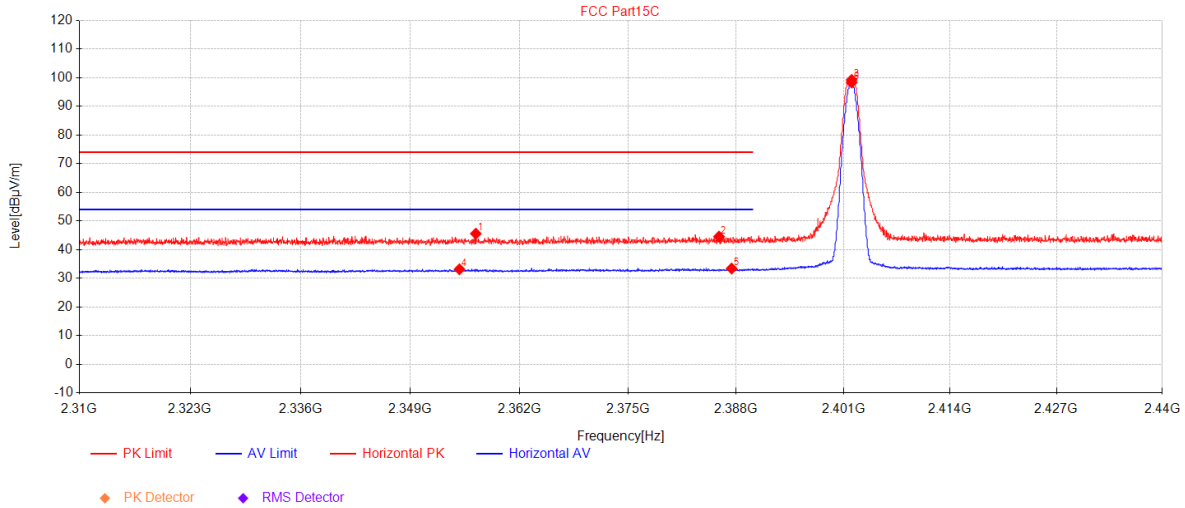
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Test on the worst case:

Restricted bands around fundamental frequency

BLE 1M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2356.8	42.42	3.12	45.54	74.00	28.46	103	25	Horizontal
2	2385.9525	41.27	3.24	44.51	74.00	29.49	103	25	Horizontal
3	2402	95.85	3.31	99.16	-	-	103	25	Horizontal
4	2354.85	30.02	3.11	33.13	54.00	20.87	103	25	Horizontal
5	2387.48	30.13	3.25	33.38	54.00	20.62	103	25	Horizontal
6	2402	94.97	3.31	98.28	-	-	103	25	Horizontal

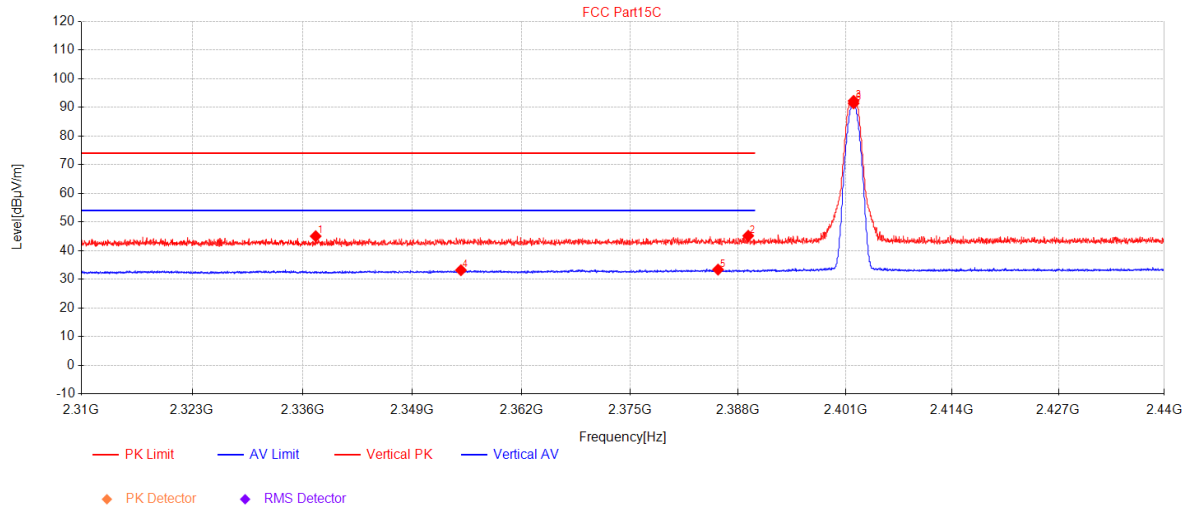


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BLE 1M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2337.56	41.96	3.04	45.00	74.00	29.00	113	164	Vertical
2	2389.235	41.90	3.25	45.15	74.00	28.85	113	164	Vertical
3	2402	88.89	3.31	92.20	-	-	113	164	Vertical
4	2354.785	30.03	3.11	33.14	54.00	20.86	113	164	Vertical
5	2385.595	30.12	3.24	33.36	54.00	20.64	113	164	Vertical
6	2402	88.04	3.31	91.35	-	-	113	164	Vertical

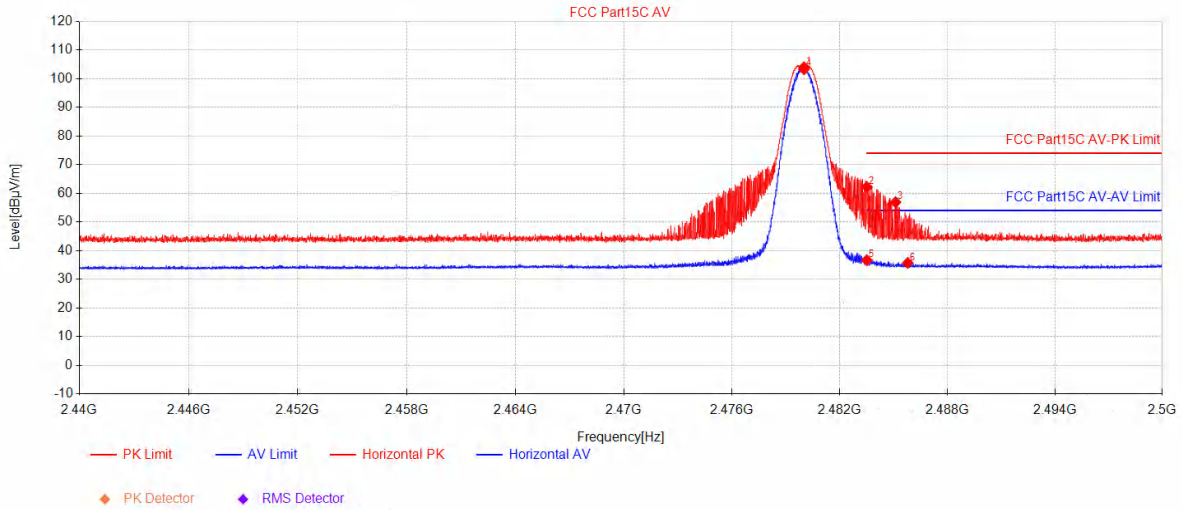


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BLE 1M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	100.06	3.88	103.94	-	-	112	31	Horizontal
2	2483.5	58.27	3.91	62.18	74.00	11.82	112	31	Horizontal
3	2485.0975	52.94	3.92	56.86	74.00	17.14	112	31	Horizontal
4	2480	99.35	3.88	103.23	-	-	112	31	Horizontal
5	2483.5	32.71	3.91	36.62	54.00	17.38	112	31	Horizontal
6	2485.78	31.74	3.93	35.67	54.00	18.33	112	31	Horizontal

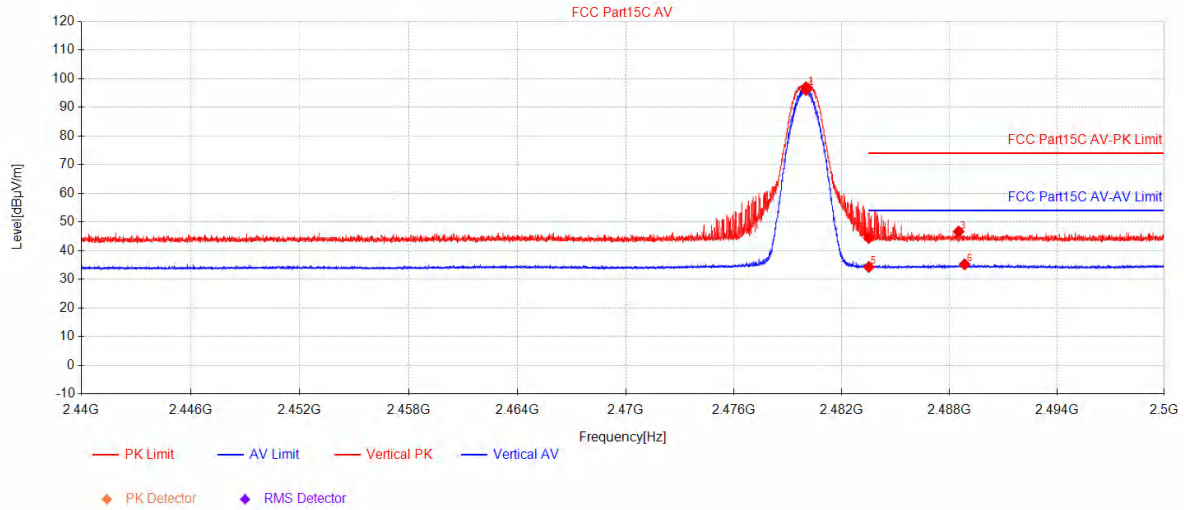


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Data List									
NO.	Frequency [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	93.08	3.88	96.96	-	-	116	234	Vertical
2	2483.5	40.46	3.91	44.37	74.00	29.63	116	234	Vertical
3	2488.5025	42.67	3.95	46.62	74.00	27.38	116	234	Vertical
4	2480	92.10	3.88	95.98	-	-	116	234	Vertical
5	2483.5	30.37	3.91	34.28	54.00	19.72	116	234	Vertical
6	2488.84	31.23	3.95	35.18	54.00	18.82	116	234	Vertical

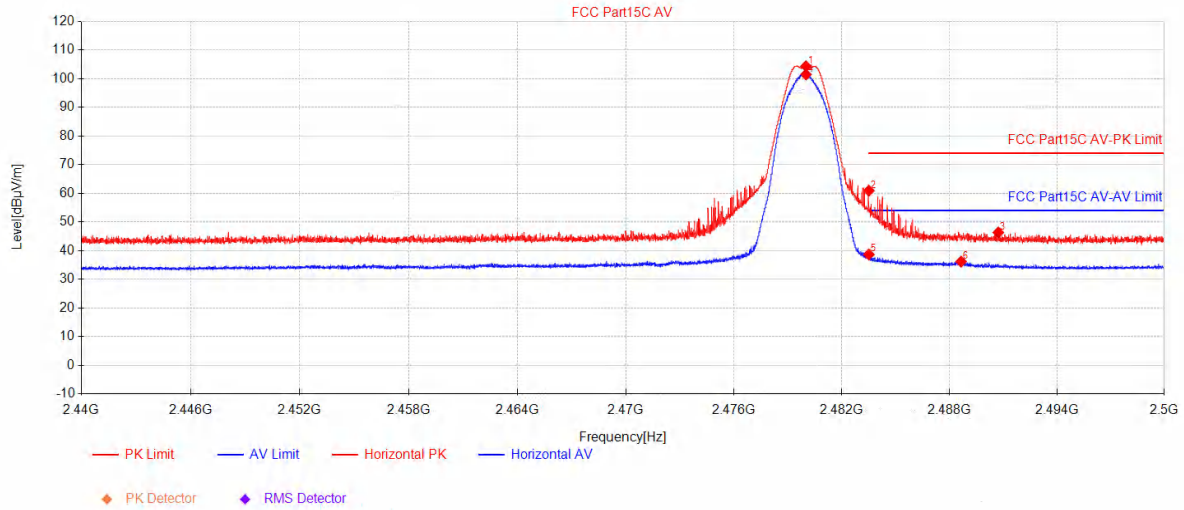


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BLE 2M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	100.41	3.88	104.29	-	-	136	21	Horizontal
2	2483.5	56.96	3.91	60.87	74.00	13.13	136	21	Horizontal
3	2490.7225	42.35	3.96	46.31	74.00	27.69	136	21	Horizontal
4	2480	97.53	3.88	101.41	-	-	136	21	Horizontal
5	2483.5	34.73	3.91	38.64	54.00	15.36	136	21	Horizontal
6	2488.645	32.18	3.95	36.13	54.00	17.87	136	21	Horizontal

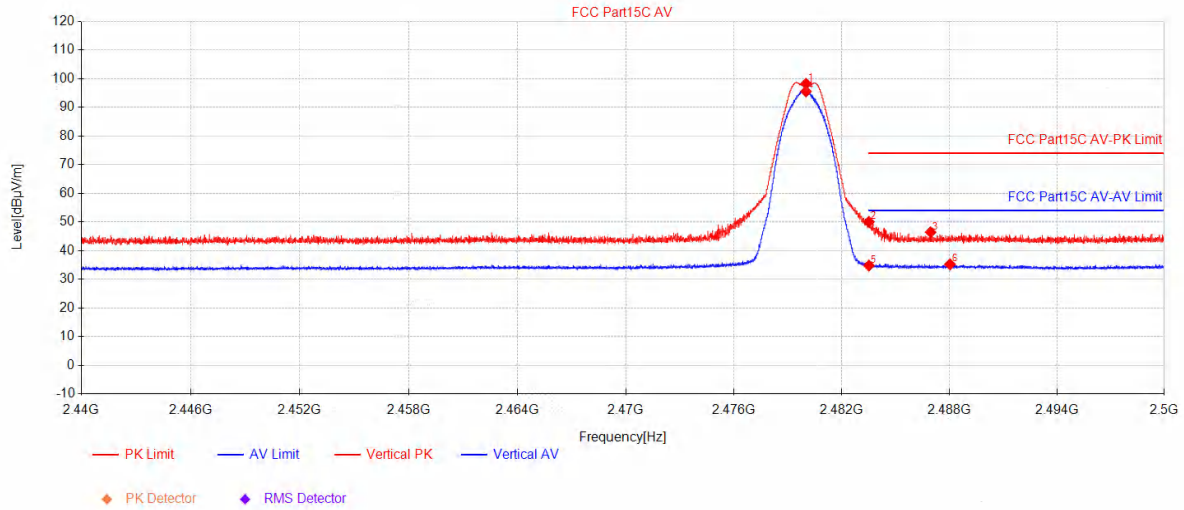


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BLE 2M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	94.29	3.88	98.17	-	-	345	239	Vertical
2	2483.5	46.10	3.91	50.01	74.00	23.99	345	239	Vertical
3	2486.9425	42.47	3.93	46.40	74.00	27.60	345	239	Vertical
4	2480	91.60	3.88	95.48	-	-	345	239	Vertical
5	2483.5	30.86	3.91	34.77	54.00	19.23	345	239	Vertical
6	2488.0225	31.24	3.94	35.18	54.00	18.82	345	239	Vertical

The End



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