

Report No.: SUZR/2021/C002402

Rev.: 01

Page: 1 of 85

TEST REPORT

Application No.: ZR/2021/C0024

Applicant: Lenovo(Shanghai) Electronics Technology Co., Ltd.

Address of Applicant: Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

Manufacturer: Lenovo PC HK Limited

Address of Manufacturer: 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

EUT Description: Portable Tablet Computer

Model No.: TB125FU

Trade Mark: Lenovo

FCC ID: O57TB125FU

Standards: 47 CFR FCC Part 2, Subpart J
47 CFR Part 15, Subpart C

Date of Receipt: 2021/12/29

Date of Test: 2021/12/30 to 2022/1/25

Date of Issue: 2022/1/26

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




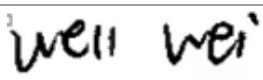
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/1/26		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
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013	Clause 4.9	PASS



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3 General Information

3.1 Details of Client

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Address of Applicant:	Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Manufacturer:	Lenovo PC HK Limited
Address of Manufacturer:	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, 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



3.4 General Description of EUT

EUT Description:	Portable Tablet Computer		
Model No.:	TB125FU		
Trade Mark:	Lenovo		
Hardware Version:	Lenovo TB125FU		
Software Version:	TB125FU_RF01_220125		
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 applicant		
	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 applicant		
	-1.47dBi;		
RF Cable*:	<input checked="" type="checkbox"/> Provided by applicant		
	0.5dB(0.6~1GHz)	0.8dB(1.4~2GHz)	1.0dB(2.1~2.7GHz)
	1.5dB(3~4GHz)	1.8dB(4.4~6GHz)	
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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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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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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	3.8
LTNV	0	3.8
HTNV	40	3.8

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 and no consideration of replacement. The best case gain of the antenna is -1.47dBi.</p>	



4.2 AC Power Line Conducted Emissions

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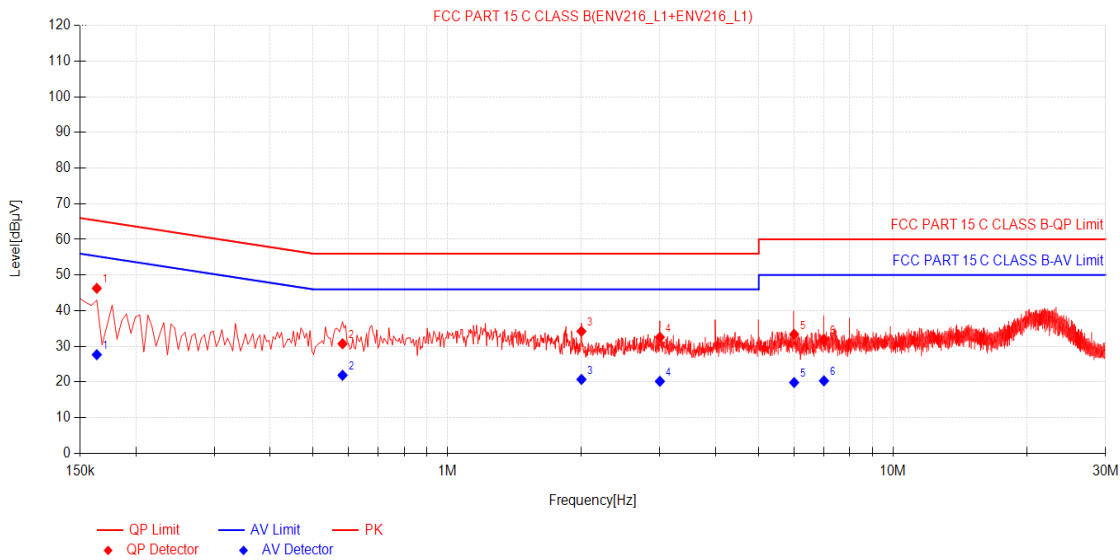
Measurement Data

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:

BLE-1M



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	46.28	65.28	19.00	27.66	55.28	27.62	PASS
2	0.5820	10.52	30.74	56.00	25.26	21.89	46.00	24.11	PASS
3	1.9995	10.68	34.21	56.00	21.79	20.73	46.00	25.27	PASS
4	2.9985	10.66	32.58	56.00	23.42	20.19	46.00	25.81	PASS
5	6.0000	10.68	33.39	60.00	26.61	19.86	50.00	30.14	PASS
6	6.9990	10.70	31.98	60.00	28.02	20.32	50.00	29.68	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.



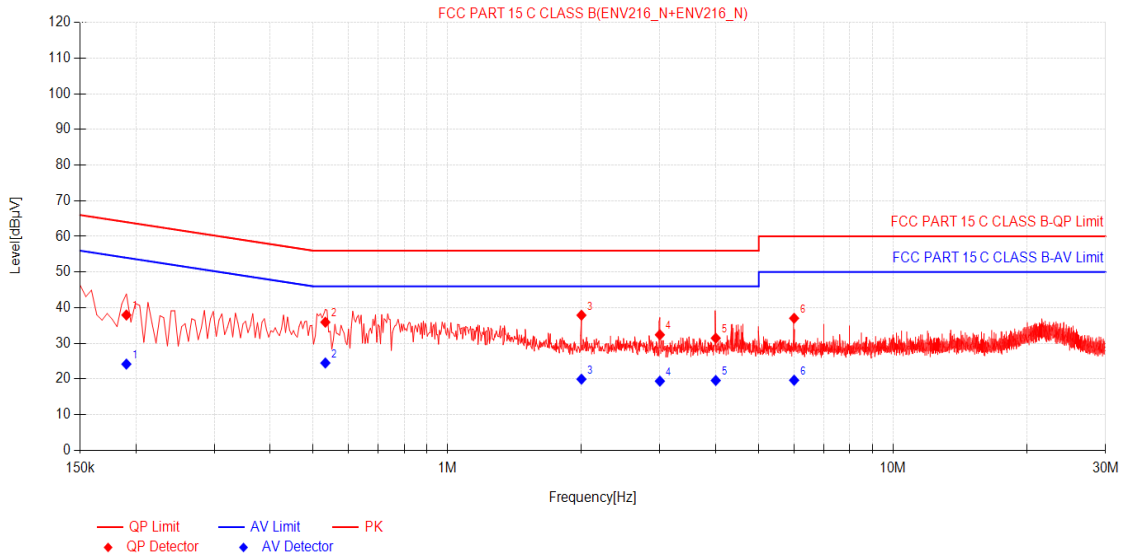
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Neutral Line:

BLE-1M



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1905	10.67	37.95	64.01	26.06	24.18	54.01	29.83	PASS
2	0.5325	10.77	35.93	56.00	20.07	24.50	46.00	21.50	PASS
3	1.9995	10.77	37.90	56.00	18.10	19.95	46.00	26.05	PASS
4	2.9985	10.58	32.40	56.00	23.60	19.41	46.00	26.59	PASS
5	4.0020	10.75	31.46	56.00	24.54	19.59	46.00	26.41	PASS
6	6.0000	10.58	37.04	60.00	22.96	19.66	50.00	30.34	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.

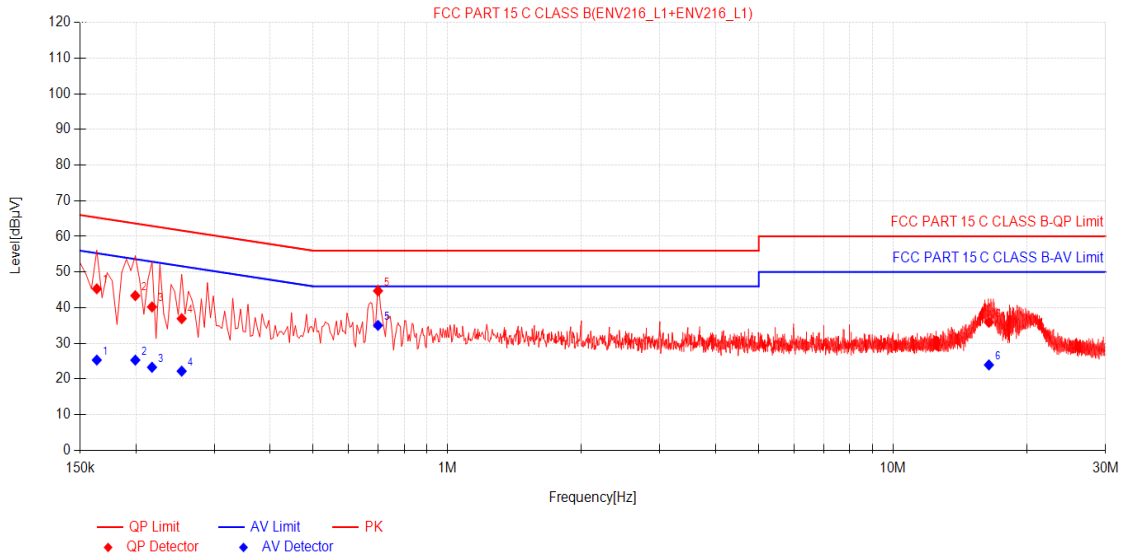


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Live Line:

BLE-2M



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1635	10.69	45.30	65.28	19.98	25.32	55.28	29.96	PASS
2	0.1995	10.82	43.38	63.63	20.25	25.30	53.63	28.33	PASS
3	0.2175	10.81	40.22	62.91	22.69	23.29	52.91	29.62	PASS
4	0.2535	10.79	36.94	61.64	24.70	22.21	51.64	29.43	PASS
5	0.6990	10.58	44.72	56.00	11.28	35.04	46.00	10.96	PASS
6	16.4130	10.50	35.90	60.00	24.10	23.95	50.00	26.05	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.



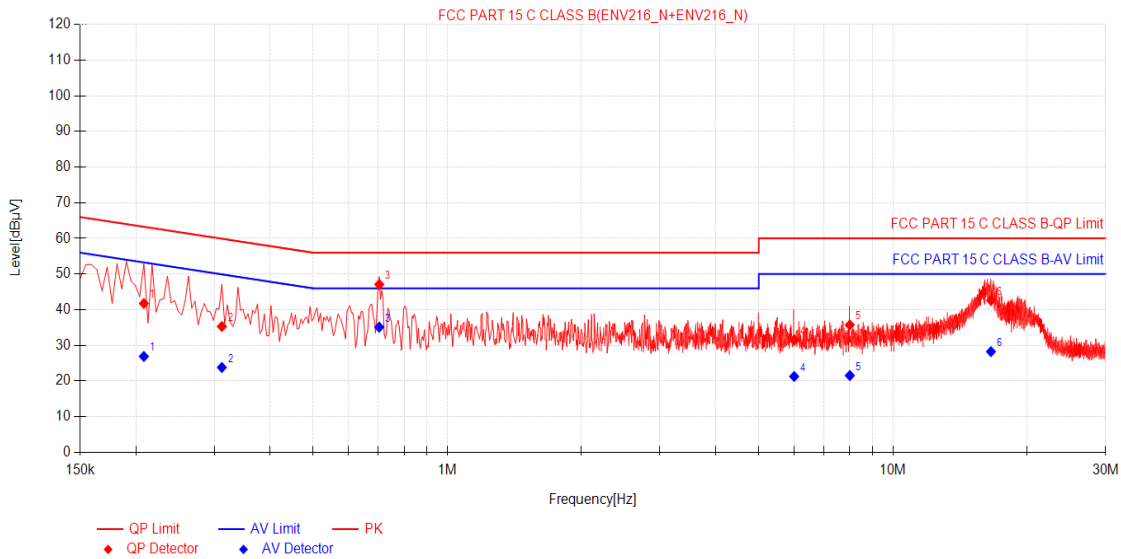
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Neutral Line:

BLE-2M



Final Data List									
NO.	Frequency [MHz]	Factor [dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.2085	10.67	41.74	63.26	21.52	26.90	53.26	26.36	PASS
2	0.3120	10.77	35.31	59.92	24.61	23.81	49.92	26.11	PASS
3	0.7035	10.81	47.09	56.00	8.91	35.12	46.00	10.88	PASS
4	6.0000	10.58	31.54	60.00	28.46	21.27	50.00	28.73	PASS
5	7.9980	10.57	35.73	60.00	24.27	21.53	50.00	28.47	PASS
6	16.5885	10.54	42.66	60.00	17.34	28.25	50.00	21.75	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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Report No.: SUZR/2021/C002402

Rev.: 01

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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

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



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4.5 DTS (6 dB) Bandwidth & 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	



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)				
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:

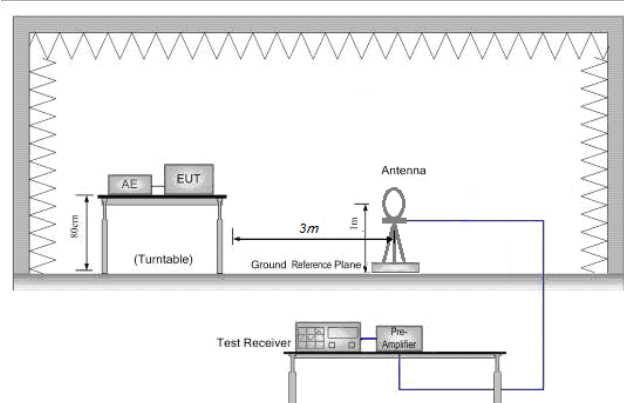


Figure 1. Below 30MHz

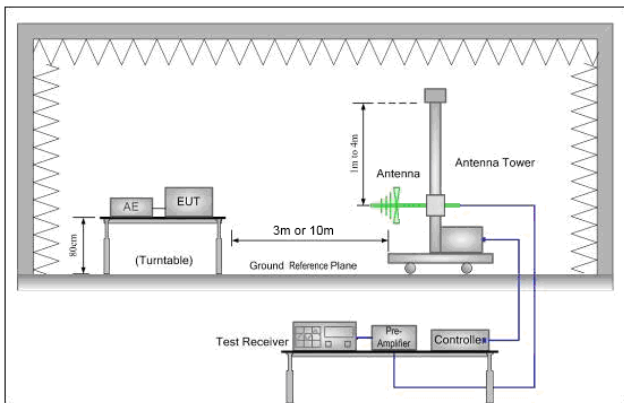


Figure 2. 30MHz to 1GHz



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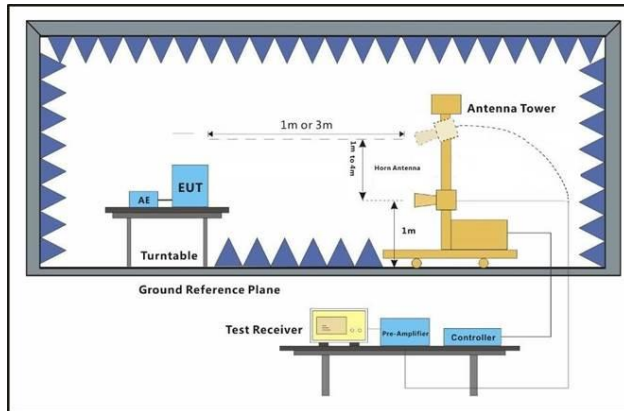


Figure 3. Above 1 GHz

<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 X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<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



	<ul style="list-style-type: none"> • 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. <p>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
Exploratory Test Mode:	Transmitting with GFSK modulation. Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Charge + Transmitting mode, For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	



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:

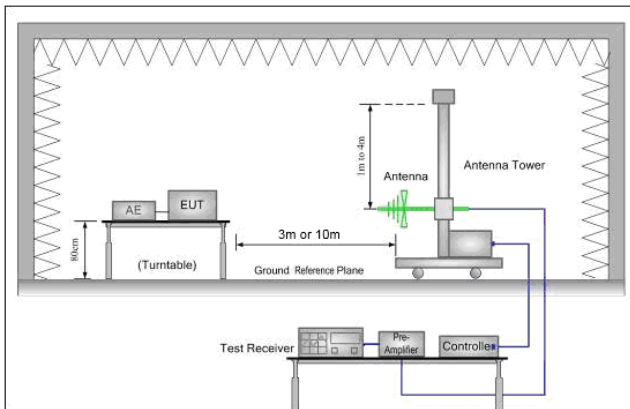


Figure 1. 30MHz to 1GHz

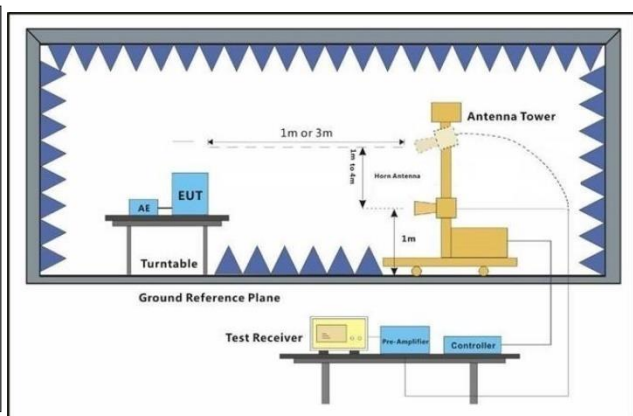


Figure 2. Above 1 GHz

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 X 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. <p>transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.</p>
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	



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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	±7.25x 10 ⁻⁸
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 ⁻⁸
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

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

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Measurement Software	Tonscend	JS1120-3 Test System V 3.5.51	SUWI-02-09-09	NCR	NCR
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



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RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
Receiving antenna	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	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
Active Loop Antenna	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
Radio Communication Analyzer	ROHDE&SCHWARZ	CMW500	SUWI-01-27-01	2021/9/28	2022/9/27



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7 Photographs - EUT Constructional Details

Refer to Appendix A.1 WLAN Setup Photos.



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Appendix



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DTS Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.66	2401.67	2402.33	0.5	PASS
		2440	0.66	2439.67	2440.33	0.5	PASS
		2480	0.67	2479.67	2480.34	0.5	PASS
BLE_2M	Ant1	2402	1.17	2401.42	2402.58	0.5	PASS
		2440	1.17	2439.42	2440.59	0.5	PASS
		2480	1.17	2479.42	2480.58	0.5	PASS



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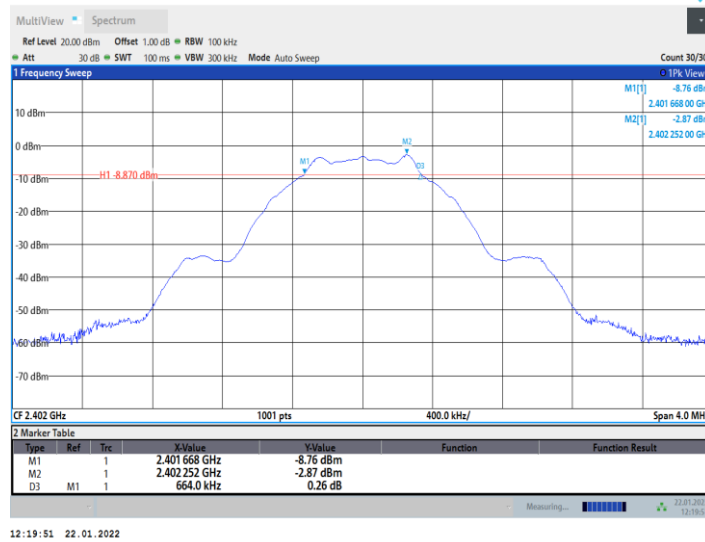
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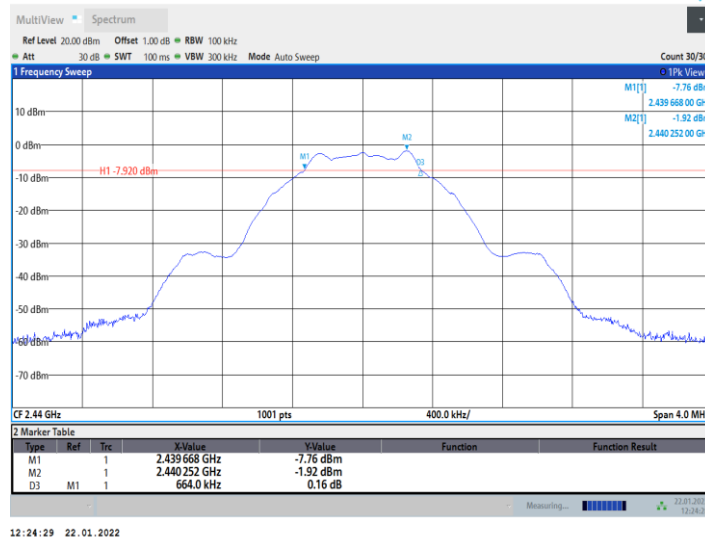
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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440

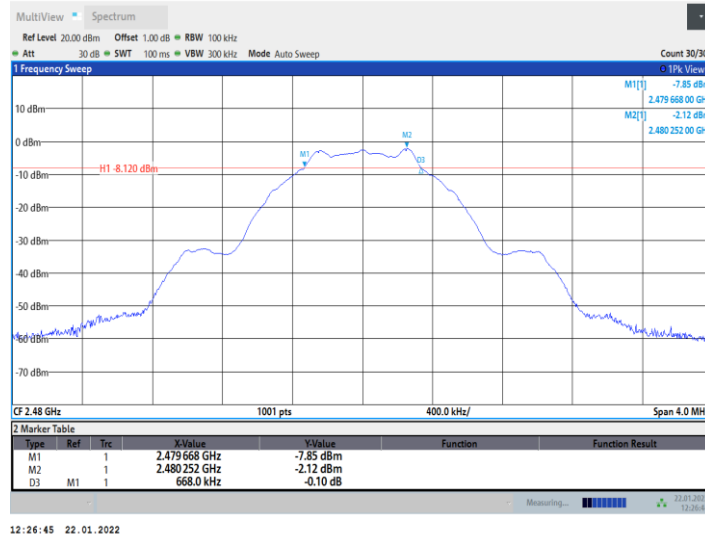


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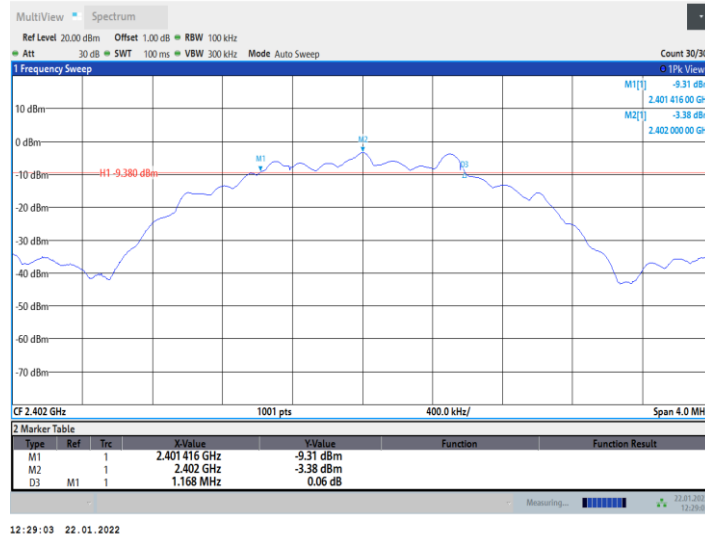
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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BLE_2M_Ant1_2440



12:31:34 22.01.2022

BLE_2M_Ant1_2480



12:33:09 22.01.2022



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Occupied Channel Bandwidth Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.033	2401.484	2402.517	---	---
		2440	1.033	2439.484	2440.517	---	---
		2480	1.033	2479.483	2480.516	---	---
BLE_2M	Ant1	2402	2.059	2400.979	2403.038	---	---
		2440	2.073	2438.979	2441.052	---	---
		2480	2.058	2478.976	2481.034	---	---



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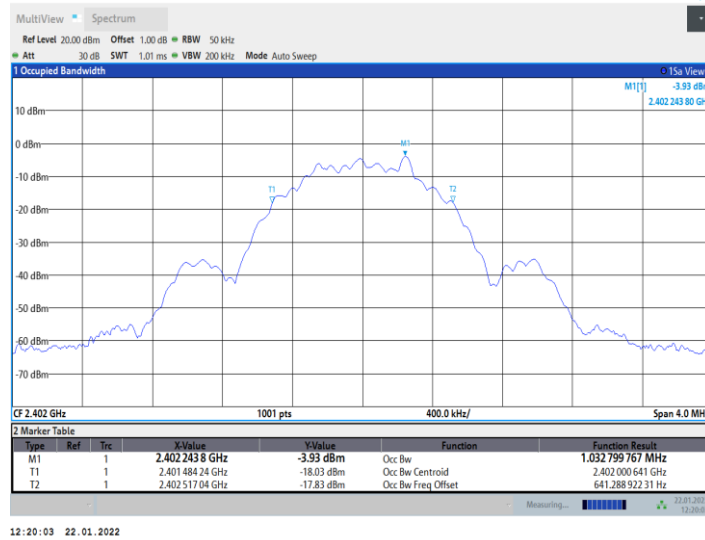
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t (86-512) 62992980 sgs.china@sgs.com

Test Graphs

BLE_1M_Ant1_2402



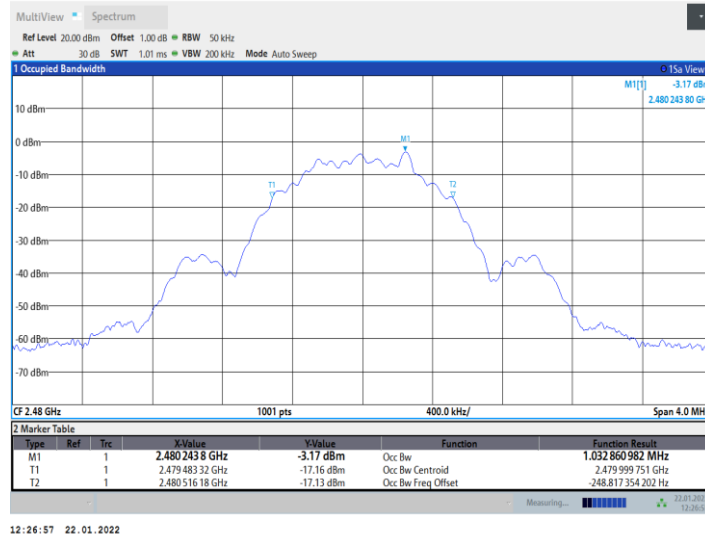
BLE_1M_Ant1_2440



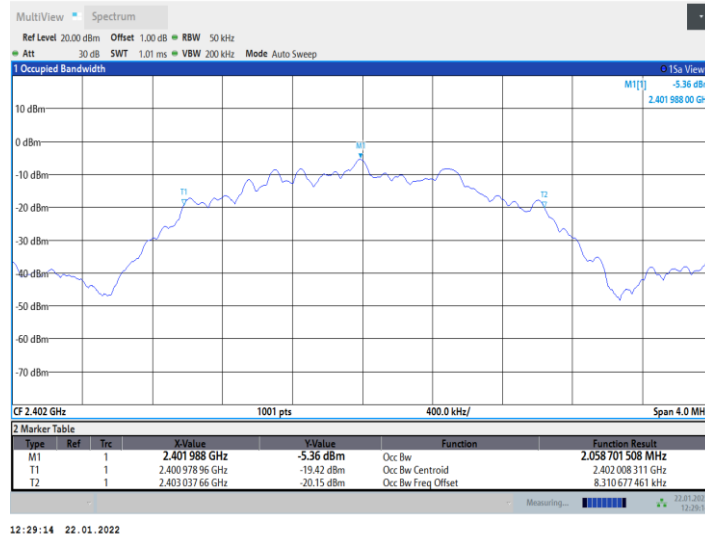
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BLE_1M_Ant1_2480



BLE_2M_Ant1_2402



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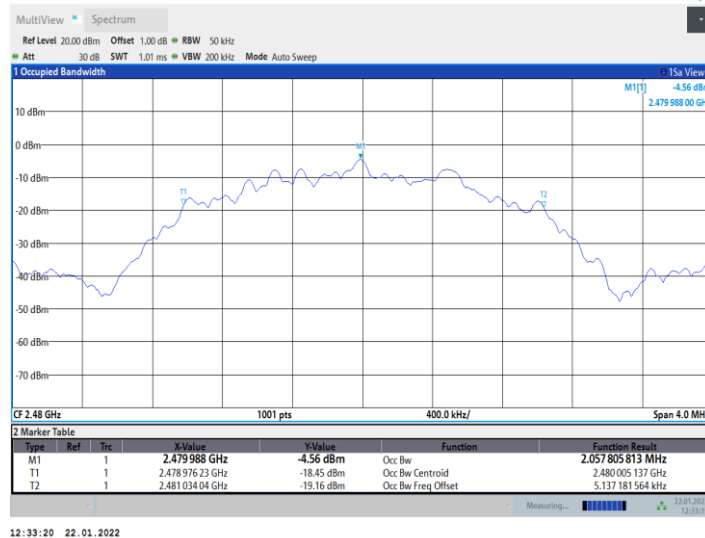
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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**Maximum conducted output power
Test Result Peak**

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-2.71	≤30	PASS
		2440	-1.74	≤30	PASS
		2480	-1.87	≤30	PASS
BLE_2M	Ant1	2402	-2.71	≤30	PASS
		2440	-1.77	≤30	PASS
		2480	-1.86	≤30	PASS



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 Wireless Laboratory

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Maximum power spectral density Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.3	≤8.00	PASS
		2440	-18.42	≤8.00	PASS
		2480	-18.53	≤8.00	PASS
BLE_2M	Ant1	2402	-21.49	≤8.00	PASS
		2440	-20.55	≤8.00	PASS
		2480	-20.69	≤8.00	PASS



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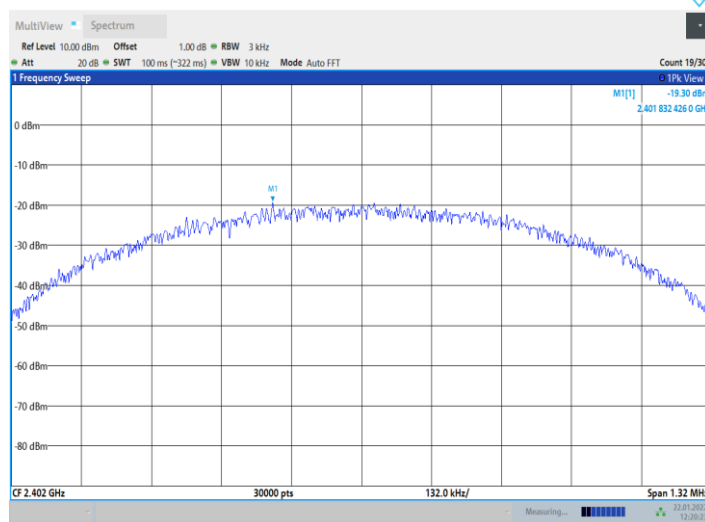
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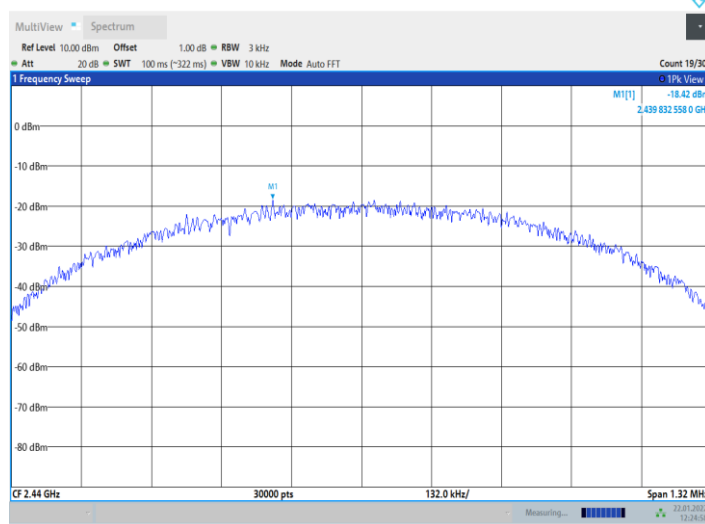
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Test Graphs

BLE_1M_Ant1_2402

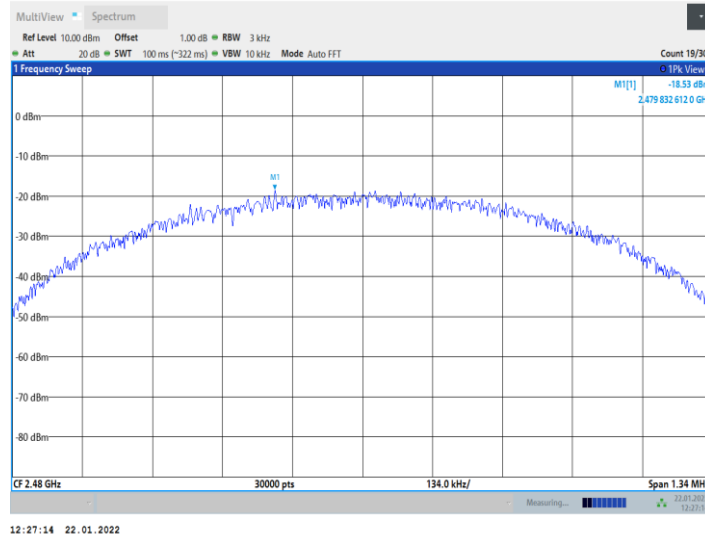


BLE_1M_Ant1_2440

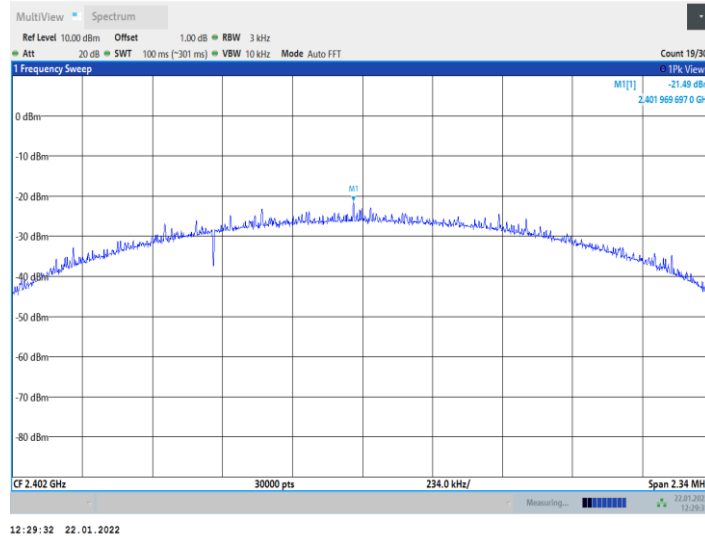


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BLE_1M_Ant1_2480



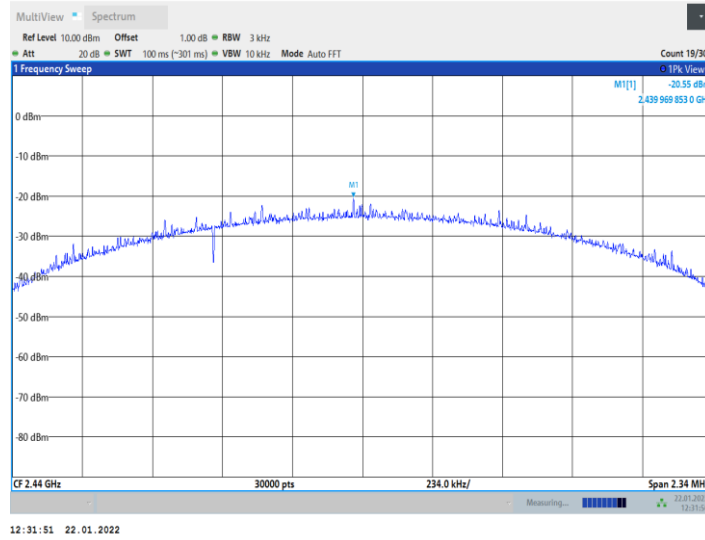
BLE_2M_Ant1_2402



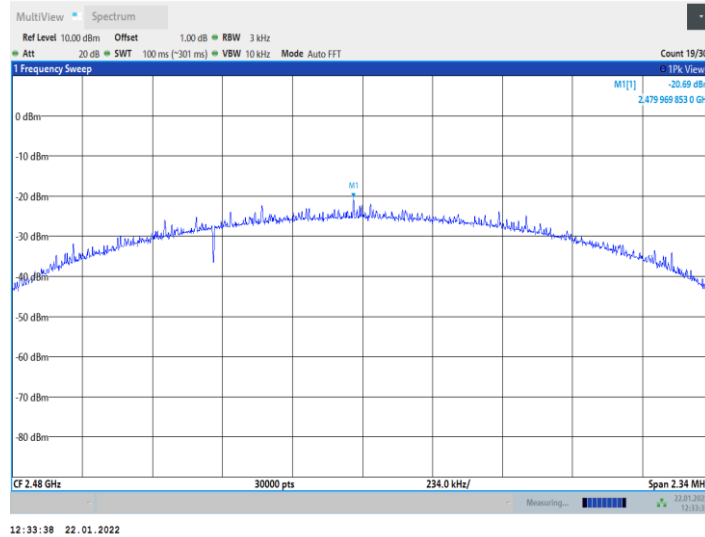
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BLE_2M_Ant1_2440



BLE_2M_Ant1_2480



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Band edge measurements

Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-2.95	-59.63	≤-22.95	PASS
		High	2480	-2.13	-58.44	≤-22.13	PASS
BLE_2M	Ant1	Low	2402	-3.40	-34.69	≤-23.4	PASS
		High	2480	-2.66	-59.22	≤-22.66	PASS



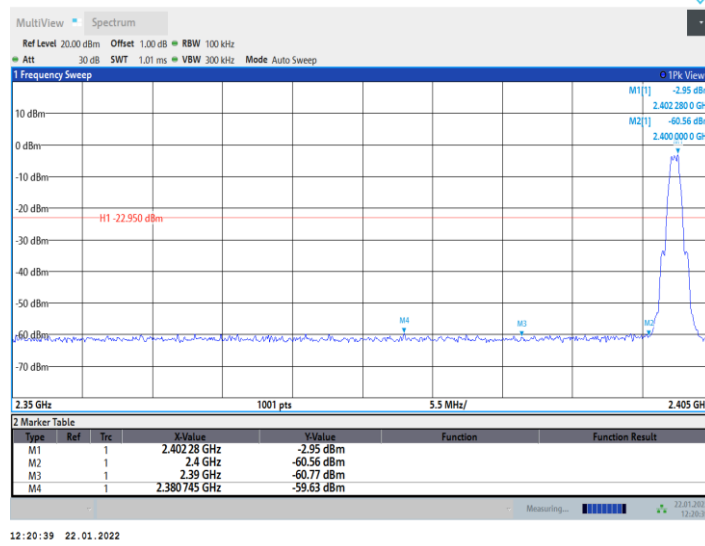
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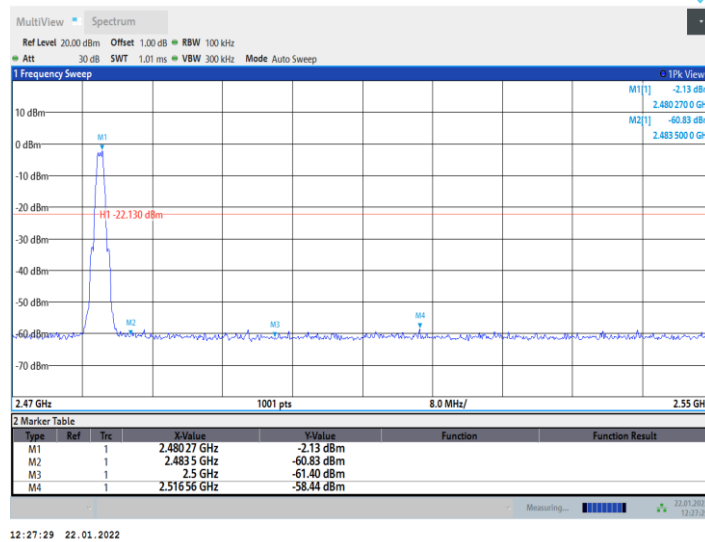
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Test Graphs

BLE_1M_Ant1_Low_2402



BLE_1M_Ant1_High_2480

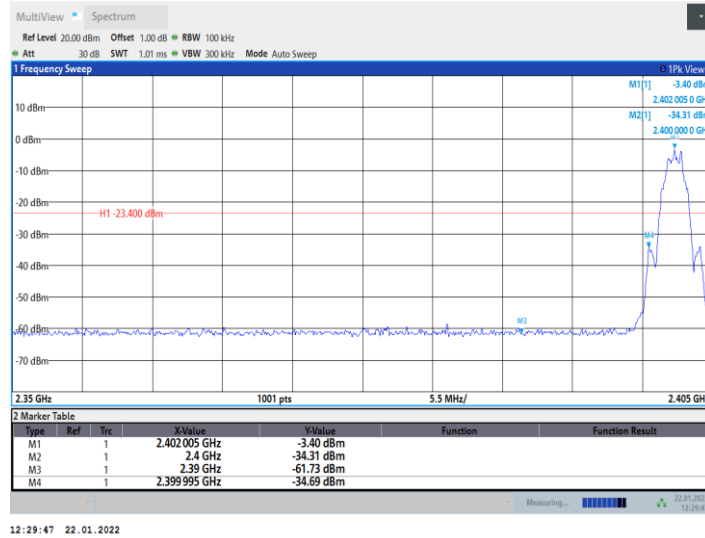


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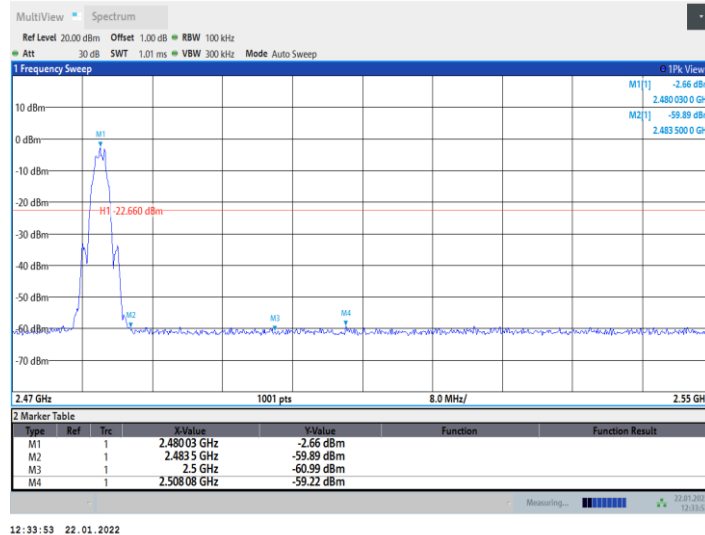
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BLE_2M_Ant1_Low_2402



BLE_2M_Ant1_High_2480



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Conducted Spurious Emission Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-63.28	≤-22.9	PASS
			1000~26500	-2.90	-53	≤-22.9	PASS
		2440	Reference	-1.92	-1.92	---	PASS
			30~1000	-1.92	-62.58	≤-21.92	PASS
			1000~26500	-1.92	-40.21	≤-21.92	PASS
		2480	Reference	-2.37	-2.37	---	PASS
			30~1000	-2.37	-62.15	≤-22.37	PASS
			1000~26500	-2.37	-53.44	≤-22.37	PASS
BLE_2M	Ant1	2402	Reference	-3.40	-3.40	---	PASS
			30~1000	-3.40	-63.11	≤-23.4	PASS
			1000~26500	-3.40	-52.79	≤-23.4	PASS
		2440	Reference	-2.49	-2.49	---	PASS
			30~1000	-2.49	-62.96	≤-22.49	PASS
			1000~26500	-2.49	-52.57	≤-22.49	PASS
		2480	Reference	-2.60	-2.60	---	PASS
			30~1000	-2.60	-62.92	≤-22.6	PASS
			1000~26500	-2.60	-53.07	≤-22.6	PASS



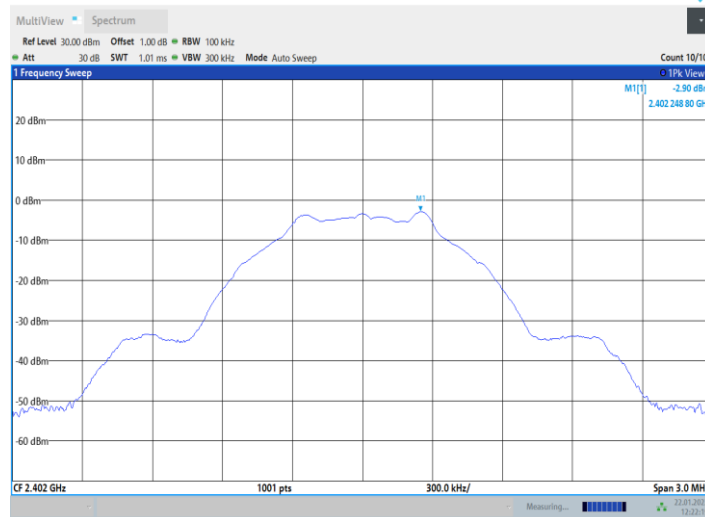
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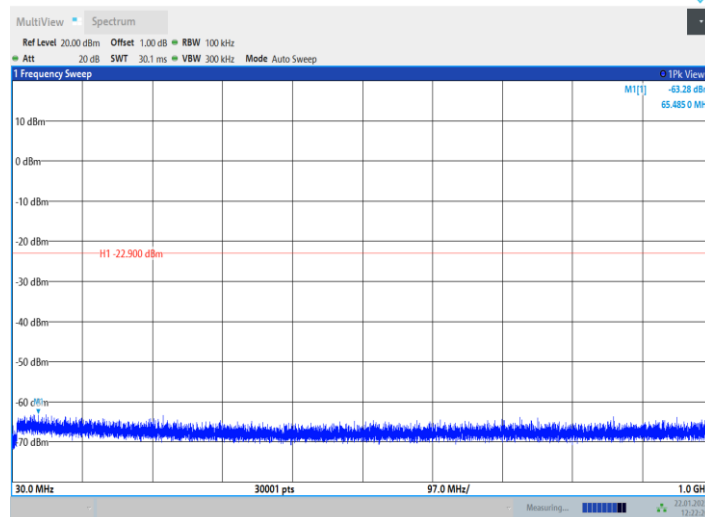
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Test Graphs

BLE_1M_Ant1_2402_0~Reference

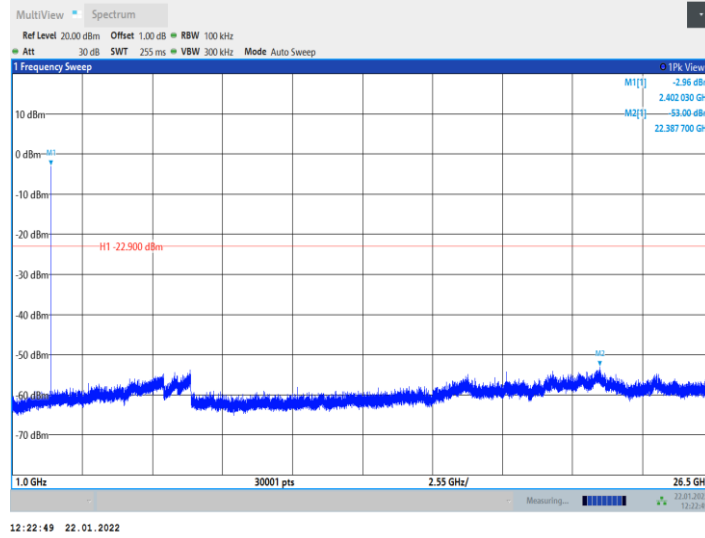


BLE_1M_Ant1_2402_30~1000

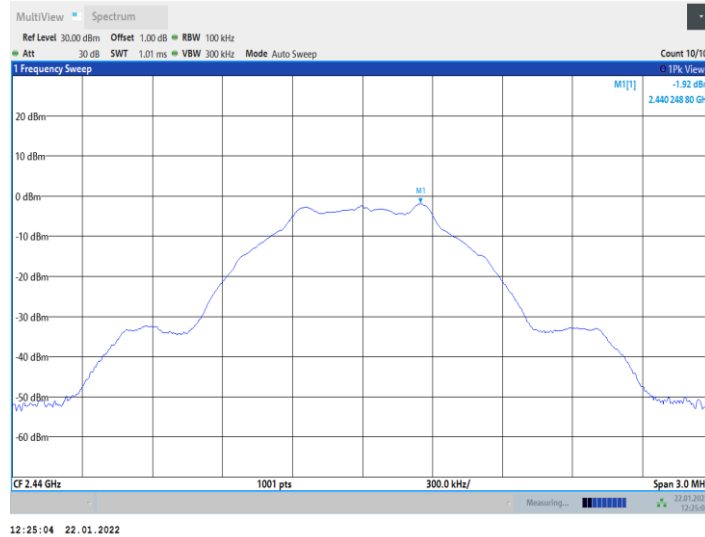


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BLE_1M_Ant1_2402_1000~26500



BLE_1M_Ant1_2440_0~Reference

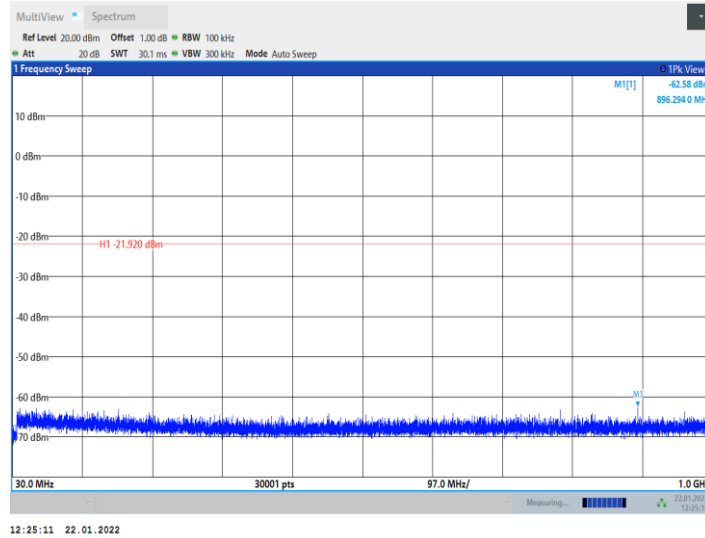


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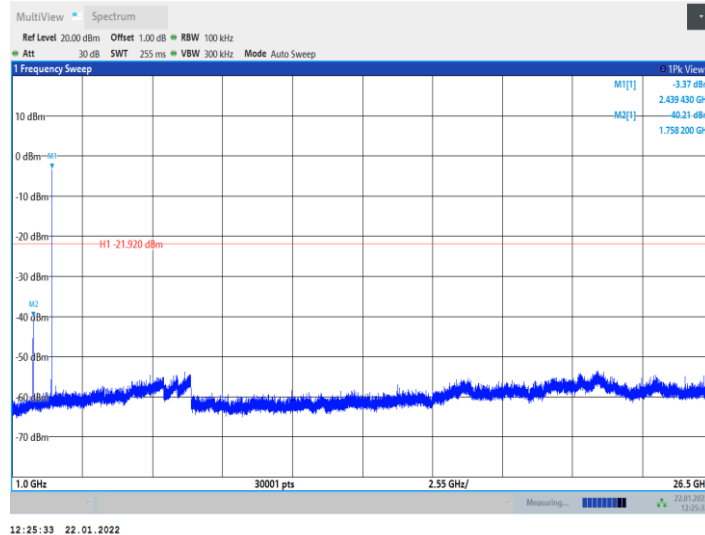
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BLE_1M_Ant1_2440_30~1000



12:25:11 22.01.2022

BLE_1M_Ant1_2440_1000~26500



12:25:33 22.01.2022



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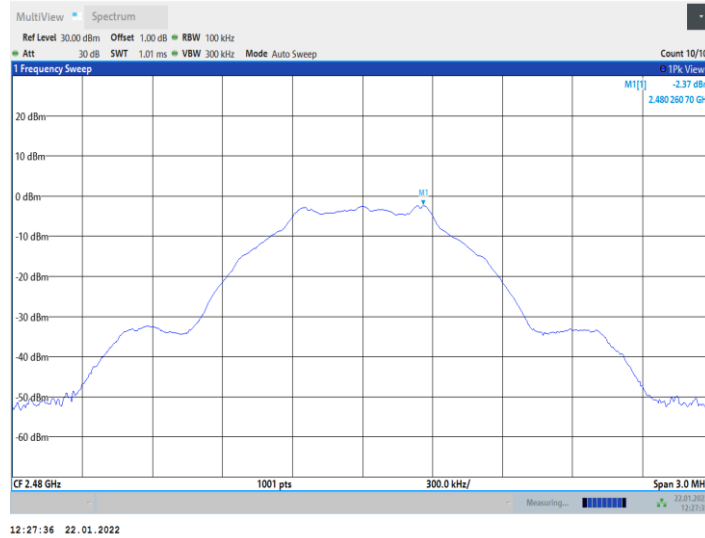
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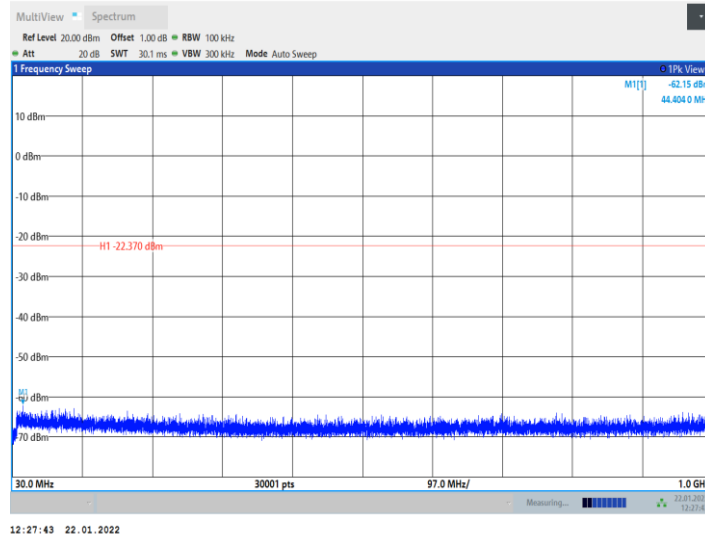
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BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000

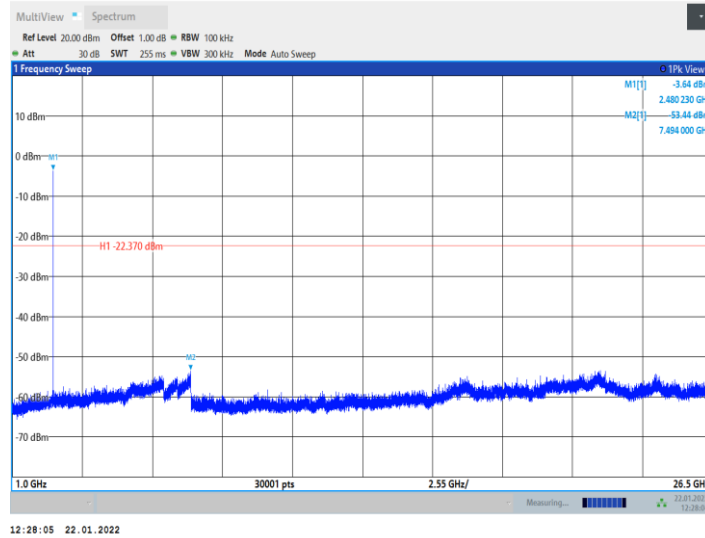


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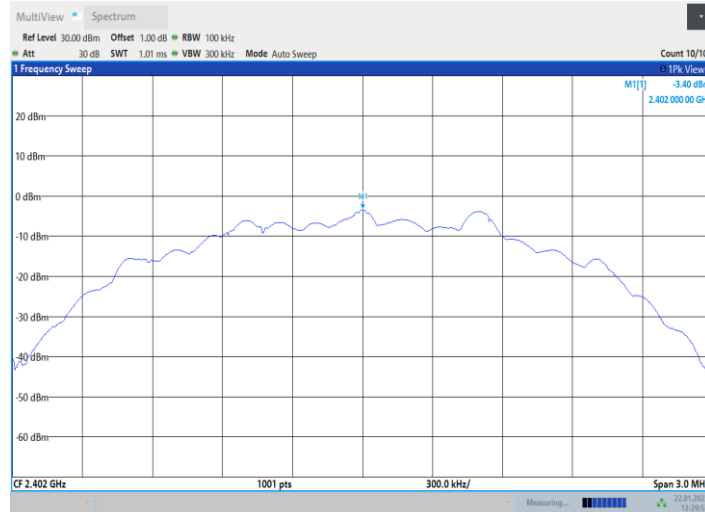
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BLE_1M_Ant1_2480_1000~26500



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BLE_2M_Ant1_2402_0~Reference



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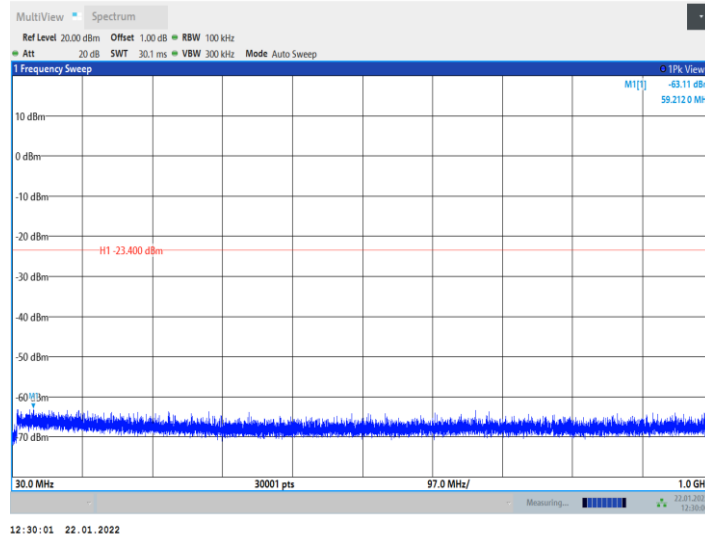


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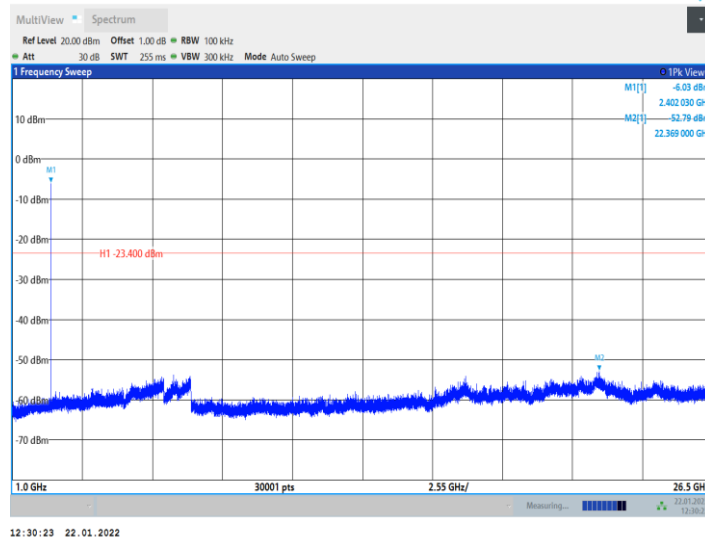
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BLE_2M_Ant1_2402_30~1000



12:30:01 22.01.2022

BLE_2M_Ant1_2402_1000~26500



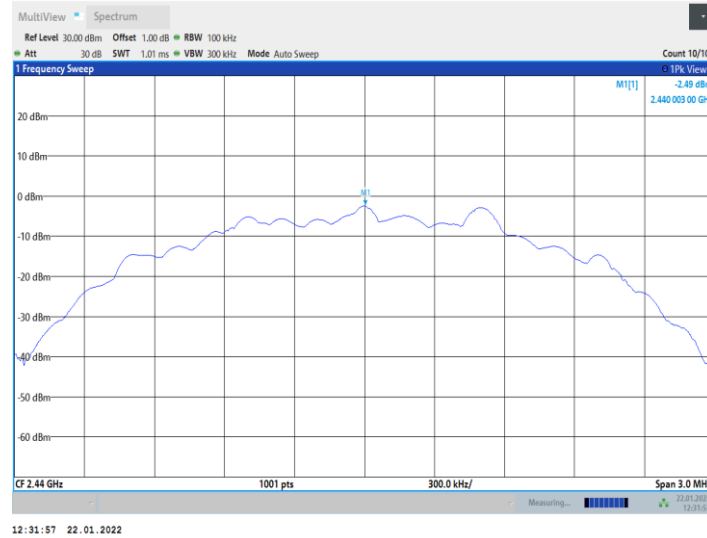
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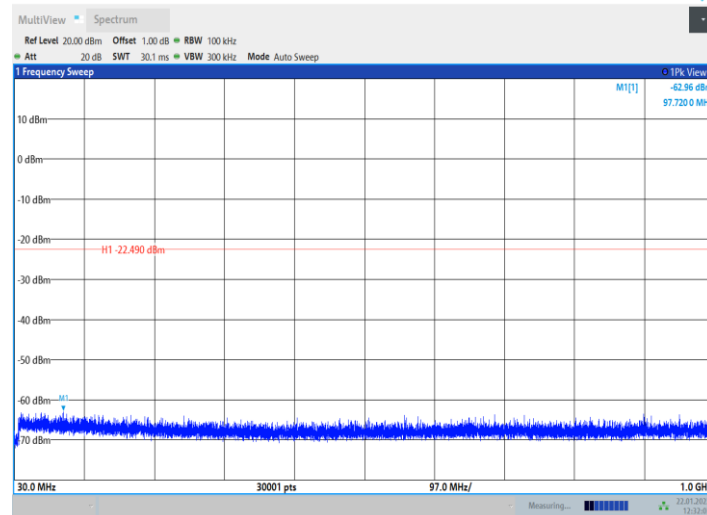
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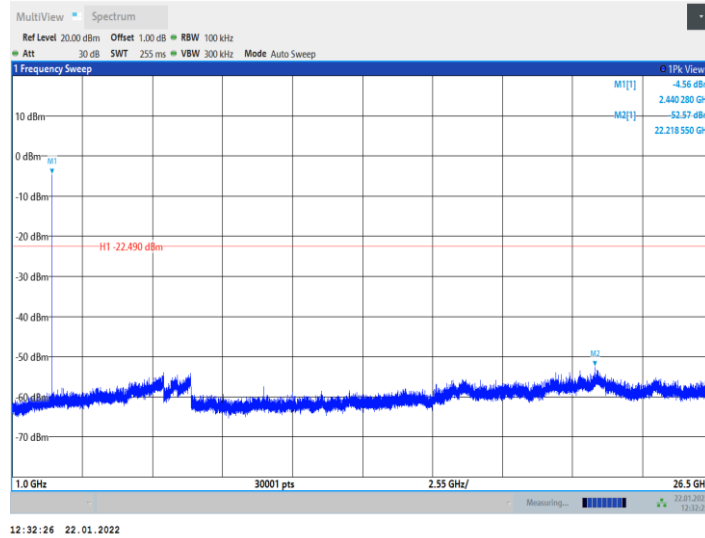


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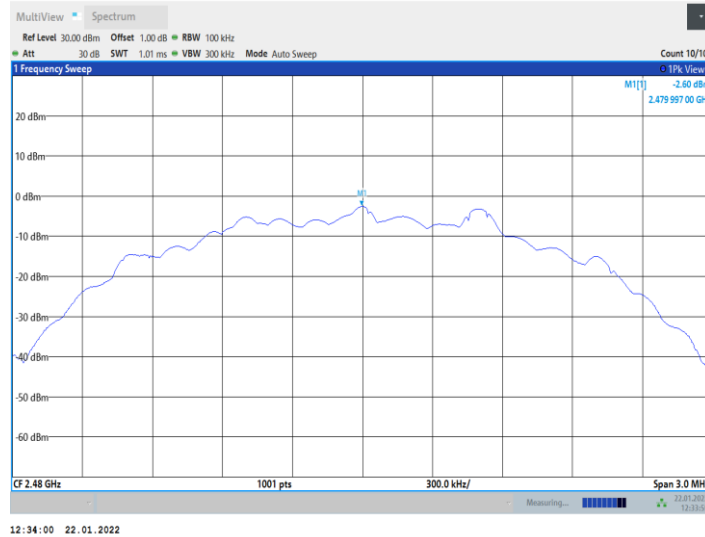


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BLE_2M_Ant1_2440_1000~26500

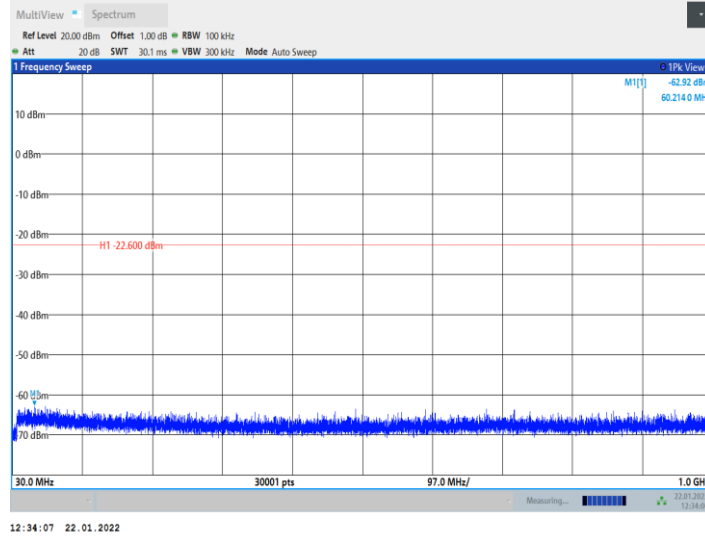


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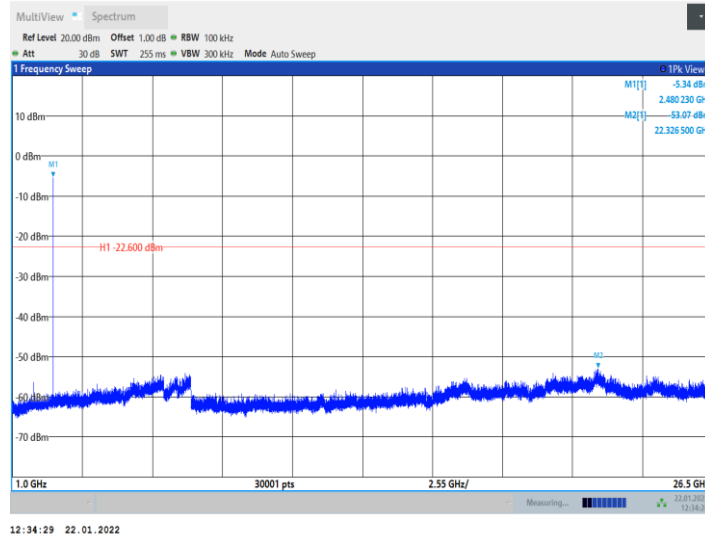


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BLE_2M_Ant1_2480_30~1000



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**Duty Cycle
Test Result**

Test Mode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]
BLE_1M	Ant1	2402	2.13	2.50	85.20
		2440	2.13	2.50	85.20
		2480	2.13	2.50	85.20
BLE_2M	Ant1	2402	1.07	1.88	56.91
		2440	1.06	1.88	56.38
		2480	1.07	1.88	56.91



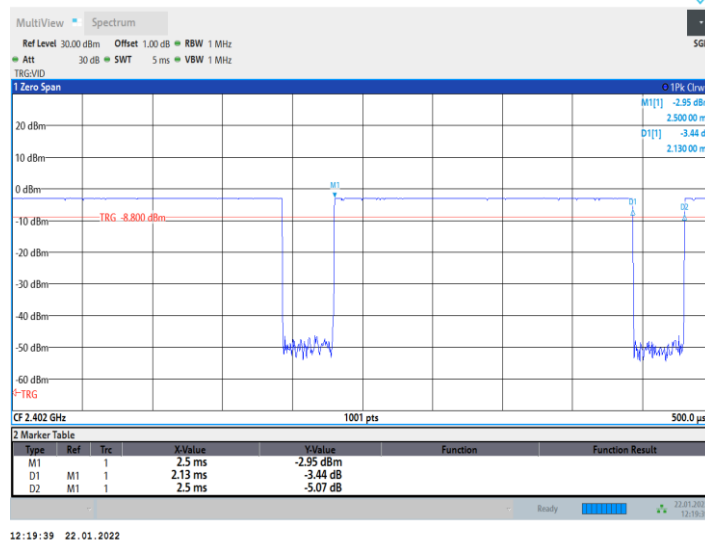
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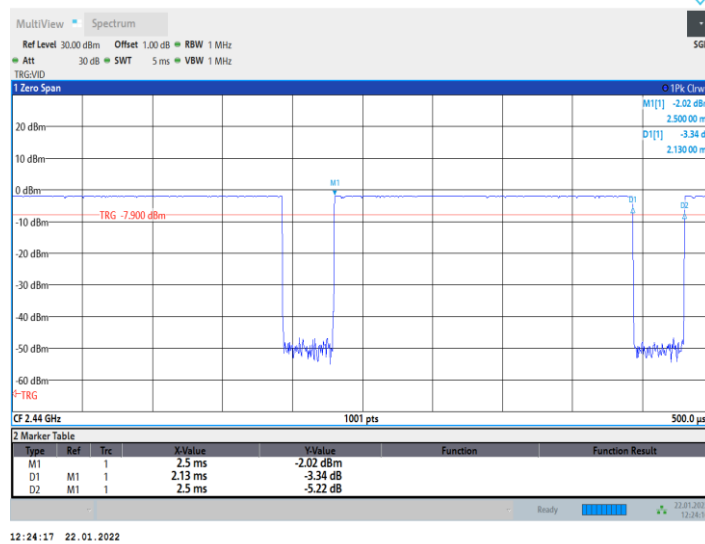
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Test Graphs

BLE_1M_Ant1_2402



BLE_1M_Ant1_2440



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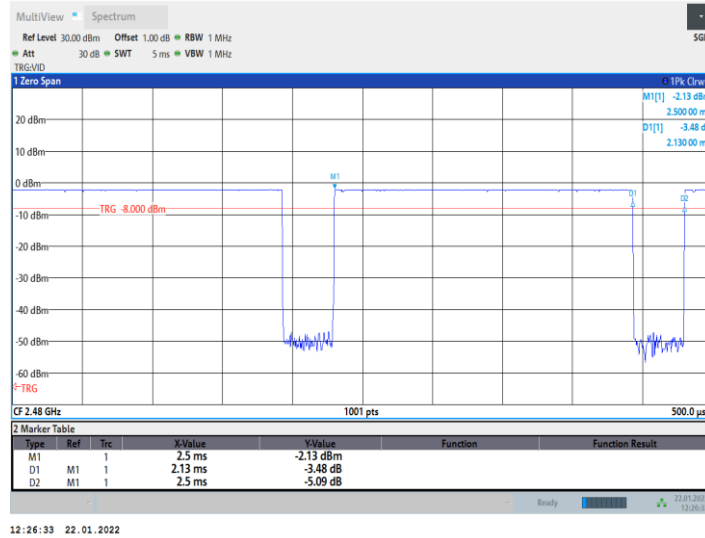
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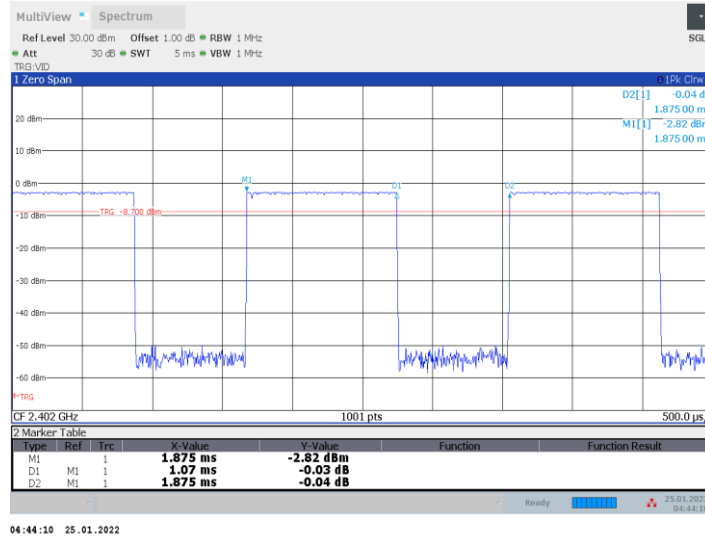
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BLE_2M_Ant1_2402

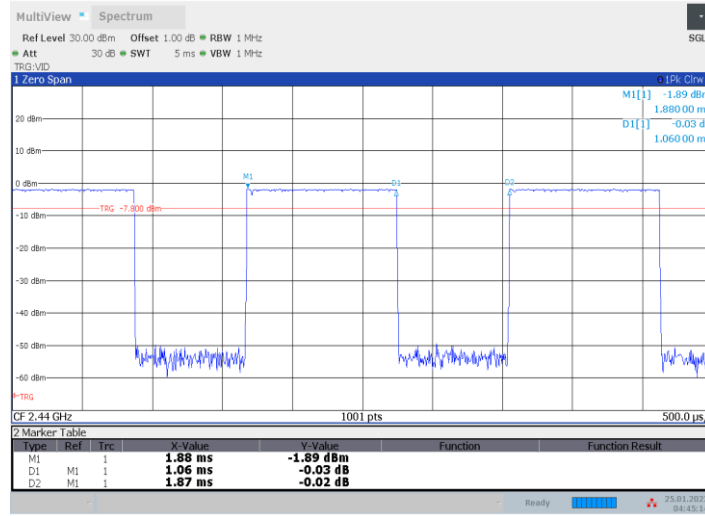


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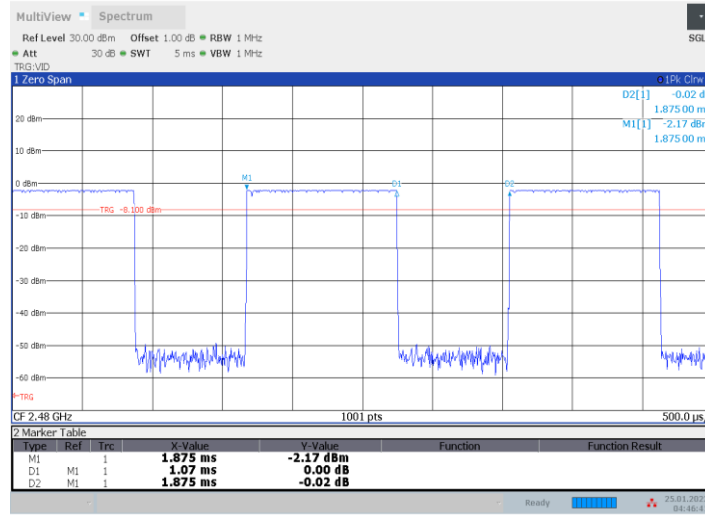
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BLE_2M_Ant1_2440



04:45:14 25.01.2022

BLE_2M_Ant1_2480



04:46:42 25.01.2022



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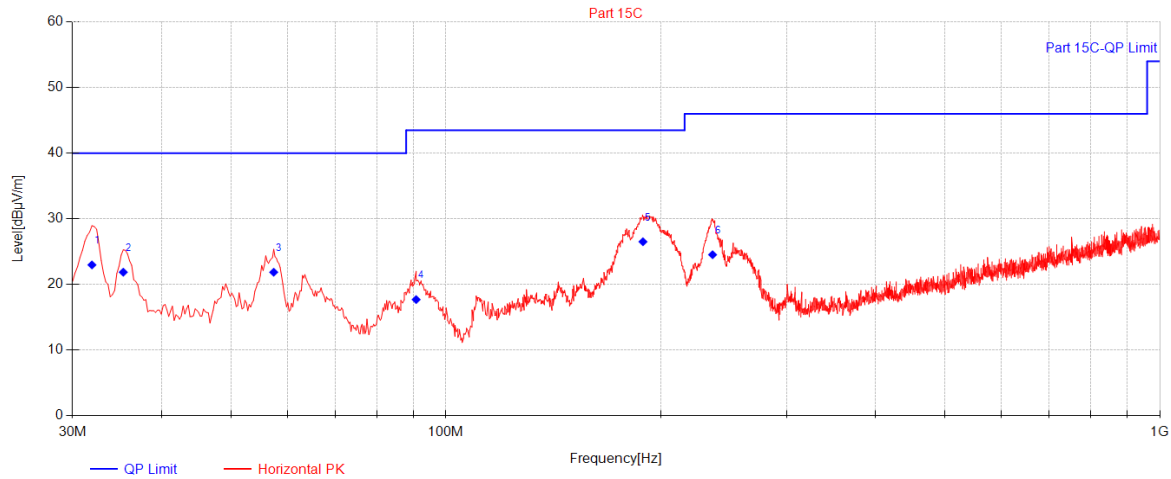
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Radiated Spurious Emissions

Emission_30M-1GHz

BLE 1M_Channel 00 Worse



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	31.94	46.29	-23.33	22.96	40.00	17.04	196	48	Horizontal
2	35.335	44.89	-23.04	21.85	40.00	18.15	254	195	Horizontal
3	57.4025	45.23	-23.38	21.85	40.00	18.15	189	349	Horizontal
4	90.8675	44.55	-26.87	17.68	43.50	25.82	132	237	Horizontal
5	188.8375	49.33	-22.83	26.50	43.50	17.00	155	195	Horizontal
6	236.3675	48.26	-23.74	24.52	46.00	21.48	224	183	Horizontal



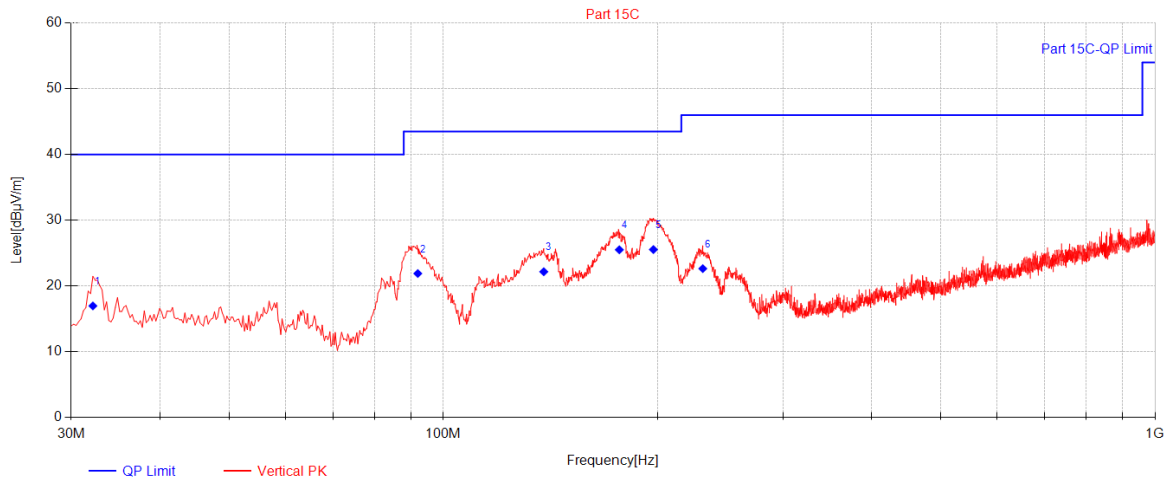
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BLE 1M_Channel 00 Worse



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	32.1825	40.26	-23.31	16.95	40.00	23.05	265	136	Vertical
2	92.08	48.58	-26.70	21.88	43.50	21.62	152	322	Vertical
3	138.3975	44.33	-22.17	22.16	43.50	21.34	188	11	Vertical
4	176.7125	46.11	-20.61	25.50	43.50	18.00	194	186	Vertical
5	197.325	50.22	-24.69	25.53	43.50	17.97	177	248	Vertical
6	231.5175	46.35	-23.72	22.63	46.00	23.37	205	105	Vertical



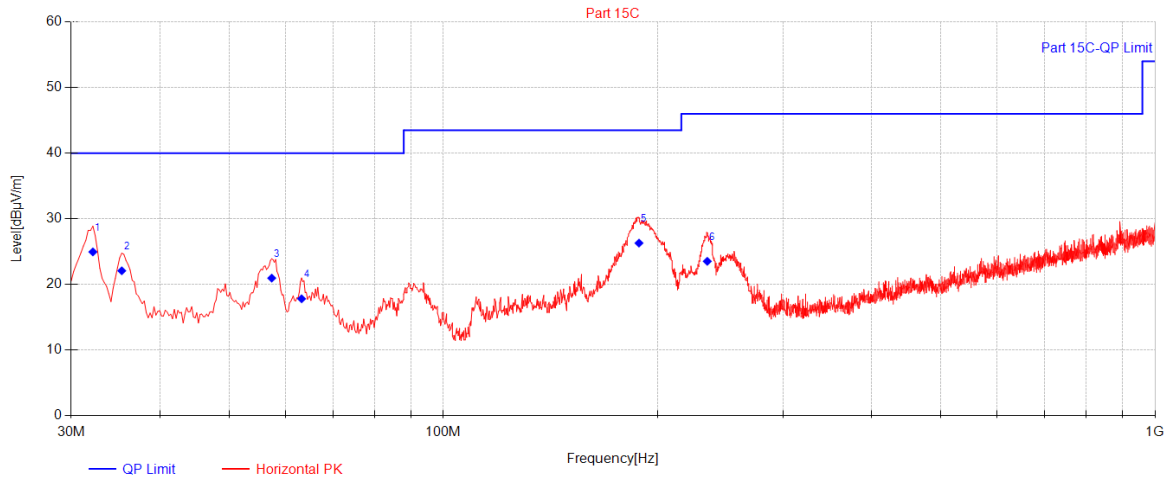
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BLE 2M_Channel 00 Worse



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	32.1825	48.26	-23.31	24.95	40.00	15.05	165	70	Horizontal
2	35.335	45.11	-23.04	22.07	40.00	17.93	178	60	Horizontal
3	57.4025	44.33	-23.38	20.95	40.00	19.05	142	29	Horizontal
4	63.2225	42.11	-24.31	17.80	40.00	22.20	213	7	Horizontal
5	188.3525	48.99	-22.70	26.29	43.50	17.21	206	215	Horizontal
6	234.9125	47.25	-23.74	23.51	46.00	22.49	188	196	Horizontal



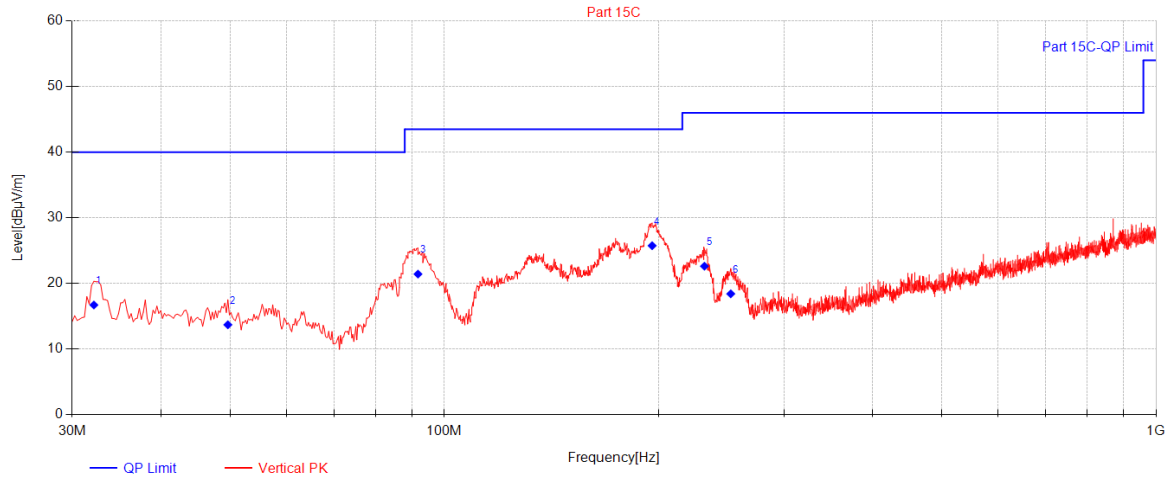
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BLE 2M_Channel 00 Worse



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	32.1825	40.01	-23.31	16.70	40.00	23.30	285	260	Vertical
2	49.6425	36.28	-22.60	13.68	40.00	26.32	149	359	Vertical
3	91.8375	48.15	-26.74	21.41	43.50	22.09	172	331	Vertical
4	195.87	50.12	-24.38	25.74	43.50	17.76	186	260	Vertical
5	232.0025	46.33	-23.72	22.61	46.00	23.39	143	115	Vertical
6	252.615	41.01	-22.61	18.40	46.00	27.60	150	186	Vertical



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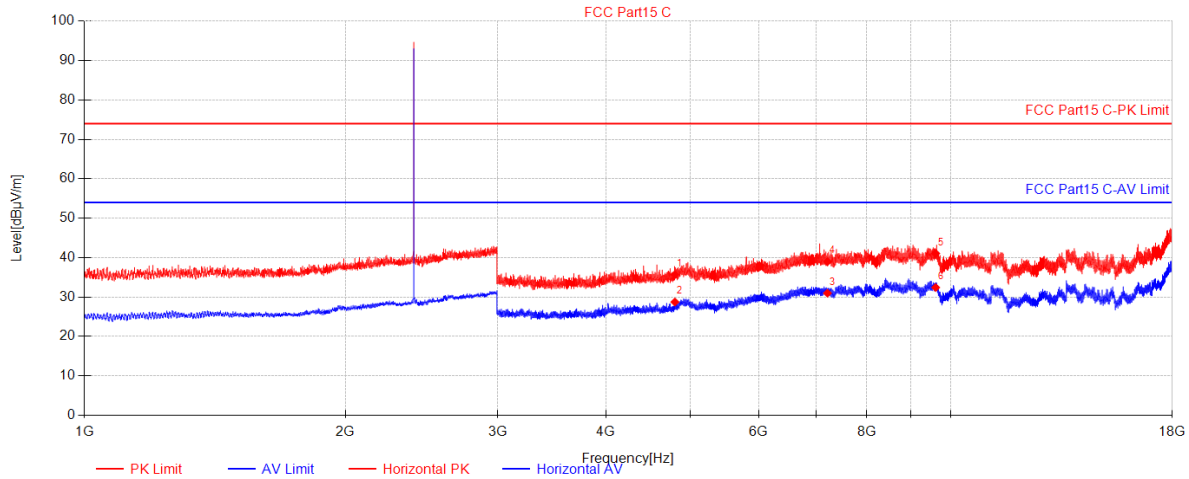
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Emission_1GHz-18GHz

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	48.89	-13.21	35.68	74.00	38.32	188	252	Horizontal
2	4804	41.95	-13.21	28.74	54.00	25.26	152	360	Horizontal
3	7206	37.82	-6.84	30.98	54.00	23.02	189	227	Horizontal
4	7206	45.83	-6.84	38.99	74.00	35.01	195	360	Horizontal
5	9608	42.29	-1.22	41.07	74.00	32.93	145	48	Horizontal
6	9608	33.64	-1.22	32.42	54.00	21.58	123	25	Horizontal



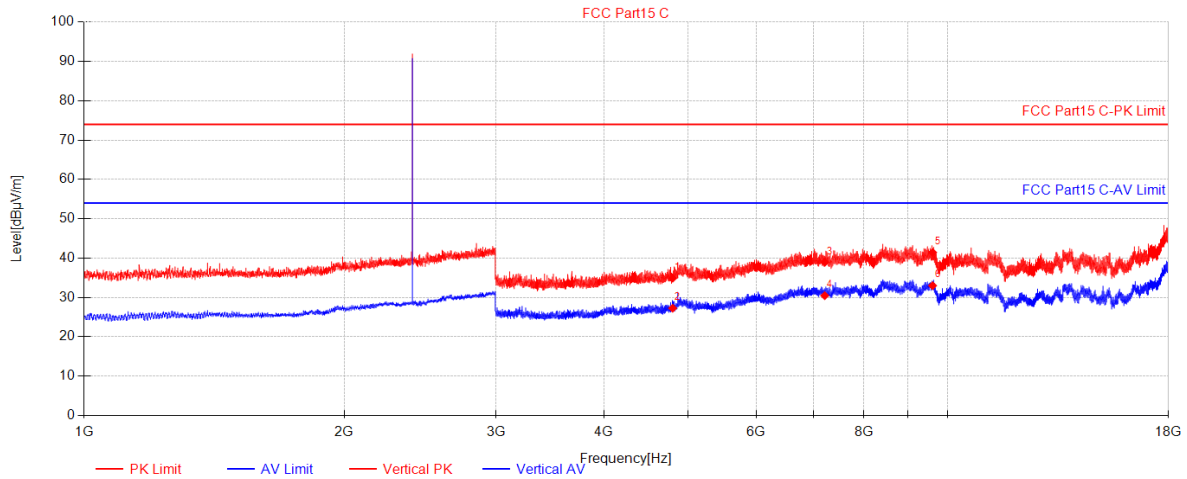
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BLE 1M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	48.10	-13.21	34.89	74.00	39.11	199	4	Vertical
2	4804	40.48	-13.21	27.27	54.00	26.73	233	253	Vertical
3	7206	45.77	-6.84	38.93	74.00	35.07	125	360	Vertical
4	7206	37.30	-6.84	30.46	54.00	23.54	201	127	Vertical
5	9608	42.65	-1.22	41.43	74.00	32.57	184	228	Vertical
6	9608	34.22	-1.22	33.00	54.00	21.00	163	253	Vertical



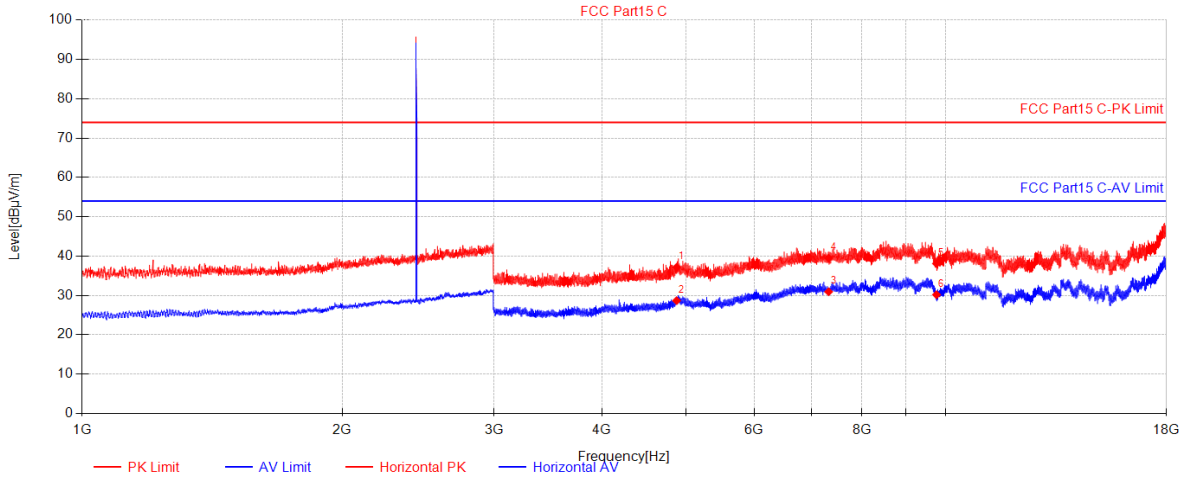
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BLE 1M_Channel 19



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	50.13	-12.99	37.14	74.00	36.86	222	330	Horizontal
2	4880	41.67	-12.99	28.68	54.00	25.32	177	304	Horizontal
3	7320	38.09	-7.15	30.94	54.00	23.06	102	254	Horizontal
4	7320	46.63	-7.15	39.48	74.00	34.52	295	49	Horizontal
5	9760	39.30	-1.20	38.10	74.00	35.90	142	277	Horizontal
6	9760	31.39	-1.20	30.19	54.00	23.81	183	280	Horizontal

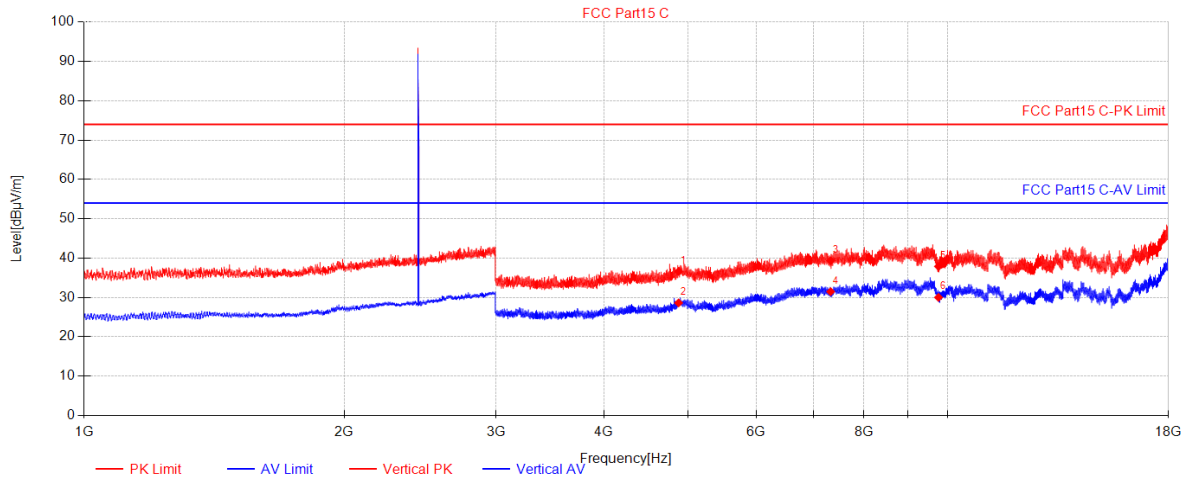


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BLE 1M_Channel 19



Data List									
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1	4880	49.58	-12.99	36.59	74.00	37.41	229	230	Vertical
2	4880	41.61	-12.99	28.62	54.00	25.38	144	4	Vertical
3	7320	46.50	-7.15	39.35	74.00	34.65	145	202	Vertical
4	7320	38.63	-7.15	31.48	54.00	22.52	221	178	Vertical
5	9760	39.08	-1.20	37.88	74.00	36.12	163	201	Vertical
6	9760	31.21	-1.20	30.01	54.00	23.99	298	151	Vertical



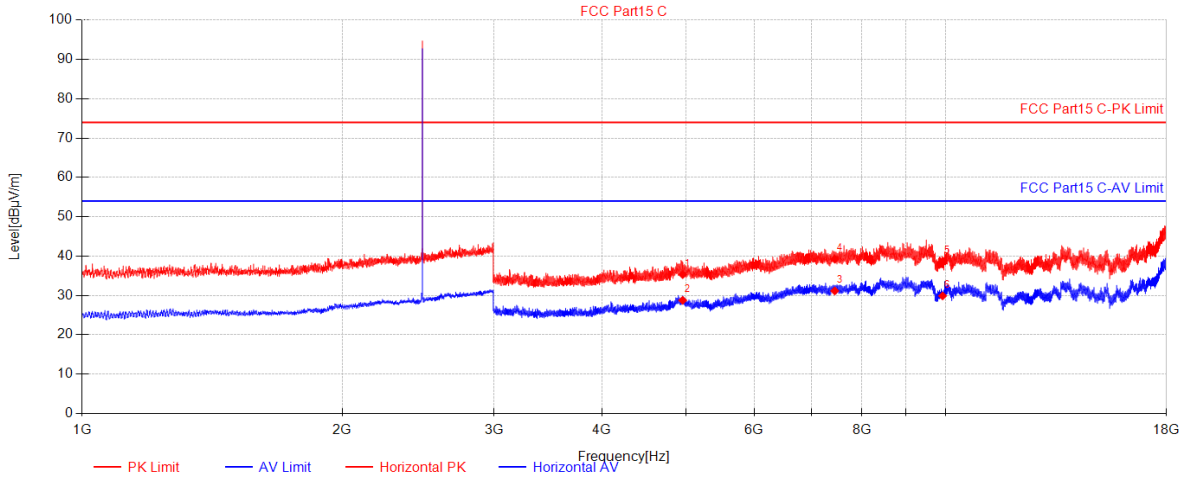
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BLE 1M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.13	-12.83	35.30	74.00	38.70	199	25	Horizontal
2	4960	41.59	-12.83	28.76	54.00	25.24	201	331	Horizontal
3	7440	37.98	-6.83	31.15	54.00	22.85	143	281	Horizontal
4	7440	46.07	-6.83	39.24	74.00	34.76	185	203	Horizontal
5	9920	39.60	-0.93	38.67	74.00	35.33	163	102	Horizontal
6	9920	30.82	-0.93	29.89	54.00	24.11	233	203	Horizontal



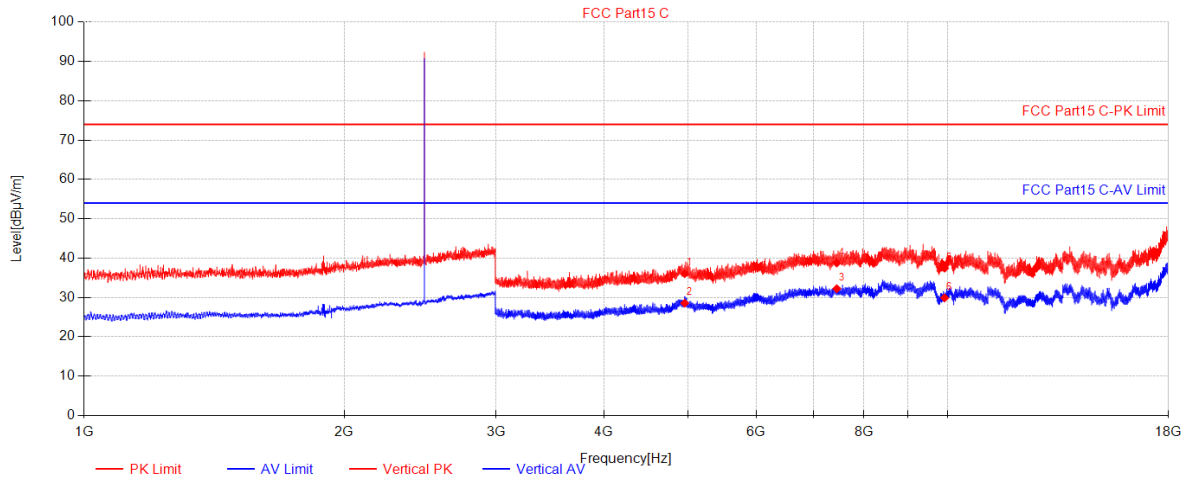
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BLE 1M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960	48.87	-12.83	36.04	74.00	37.96	195	314	Vertical
2	4960	41.37	-12.83	28.54	54.00	25.46	147	110	Vertical
3	7440	39.06	-6.83	32.23	54.00	21.77	188	189	Vertical
4	7440	45.58	-6.83	38.75	74.00	35.25	265	26	Vertical
5	9920	38.37	-0.93	37.44	74.00	36.56	142	165	Vertical
6	9920	30.83	-0.93	29.90	54.00	24.10	133	122	Vertical



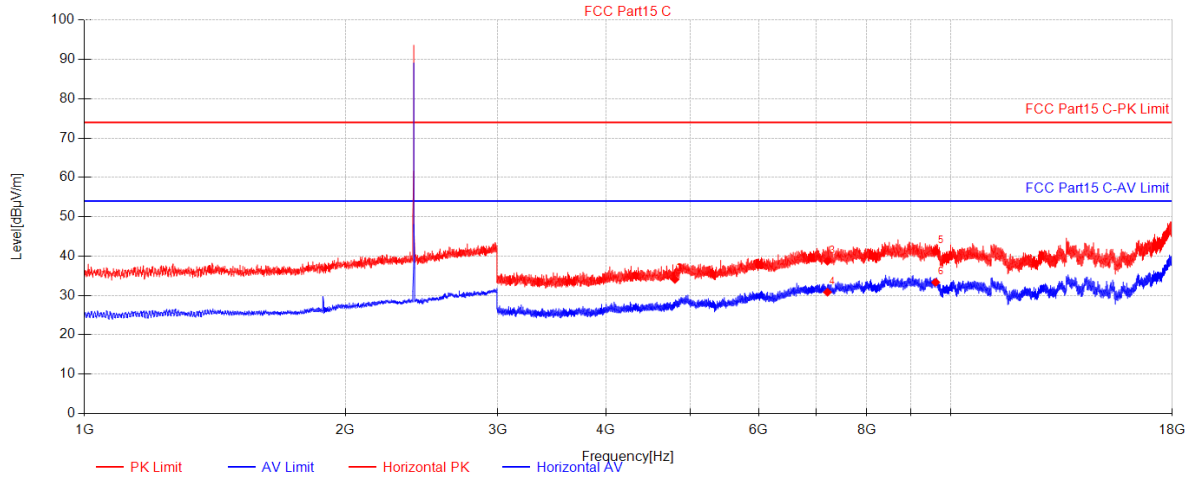
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 s (86-512) 62992980 sgs.china@sgs.com

BLE 2M_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	47.29	-13.21	34.08	74.00	39.92	400	102	Horizontal
2	4804	47.29	-13.21	34.08	54.00	19.92	177	102	Horizontal
3	7206	45.55	-6.84	38.71	74.00	35.29	133	304	Horizontal
4	7206	37.66	-6.84	30.82	54.00	23.18	169	24	Horizontal
5	9608	42.49	-1.22	41.27	74.00	32.73	205	3	Horizontal
6	9608	34.56	-1.22	33.34	54.00	20.66	182	253	Horizontal

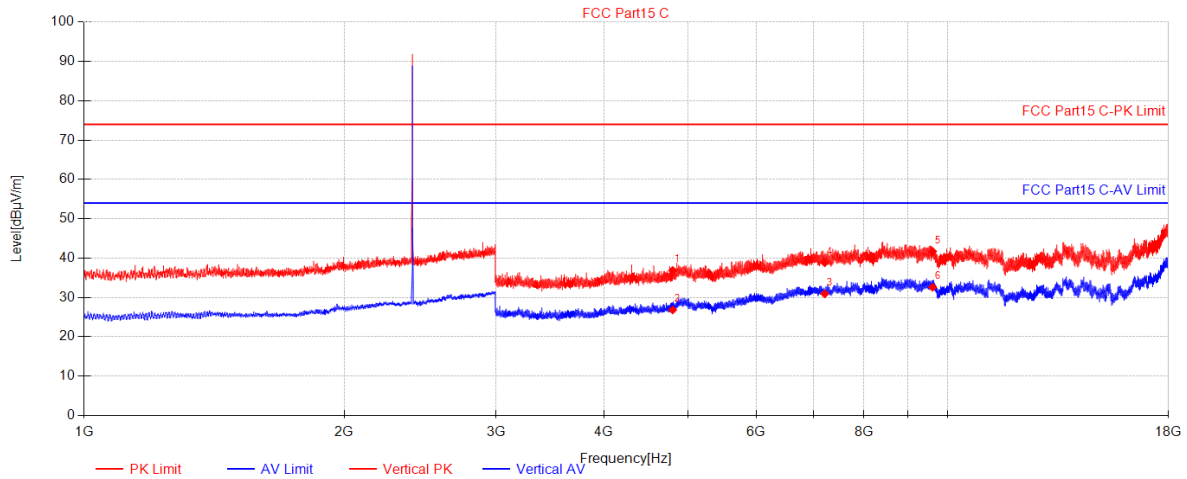


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BLE 2M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804	50.07	-13.21	36.86	74.00	37.14	158	221	Vertical
2	4804	40.03	-13.21	26.82	54.00	27.18	222	118	Vertical
3	7206	37.76	-6.84	30.92	54.00	23.08	194	248	Vertical
4	7206	45.66	-6.84	38.82	74.00	35.18	146	141	Vertical
5	9608	42.92	-1.22	41.70	74.00	32.30	162	226	Vertical
6	9608	33.81	-1.22	32.59	54.00	21.41	188	349	Vertical

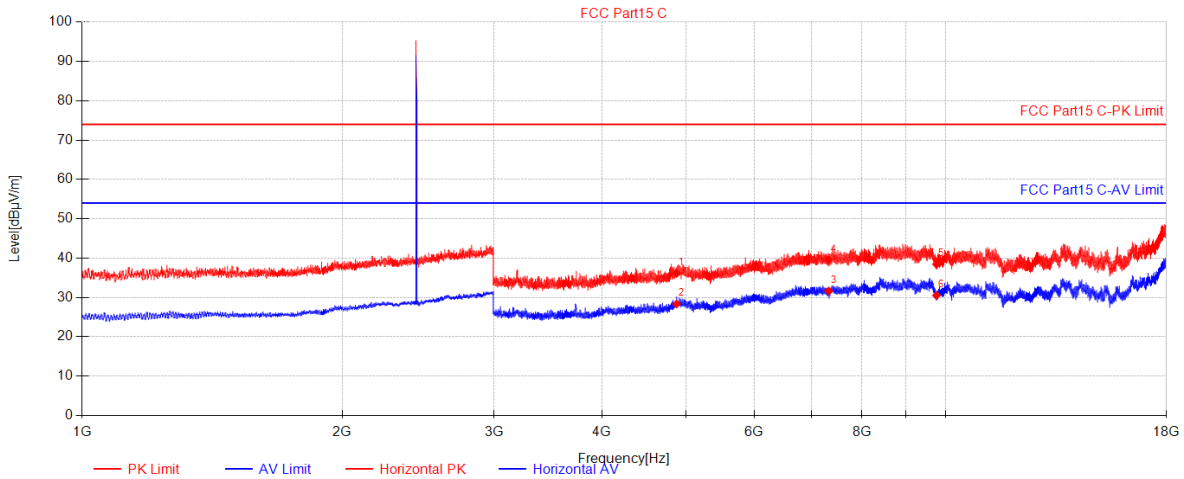


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BLE 2M_Channel 19



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.07	-12.99	36.08	74.00	37.92	188	306	Horizontal
2	4880	41.32	-12.99	28.33	54.00	25.67	208	4	Horizontal
3	7320	38.81	-7.15	31.66	54.00	22.34	188	350	Horizontal
4	7320	46.74	-7.15	39.59	74.00	34.41	195	330	Horizontal
5	9760	39.66	-1.20	38.46	74.00	35.54	163	350	Horizontal
6	9760	31.72	-1.20	30.52	54.00	23.48	142	227	Horizontal

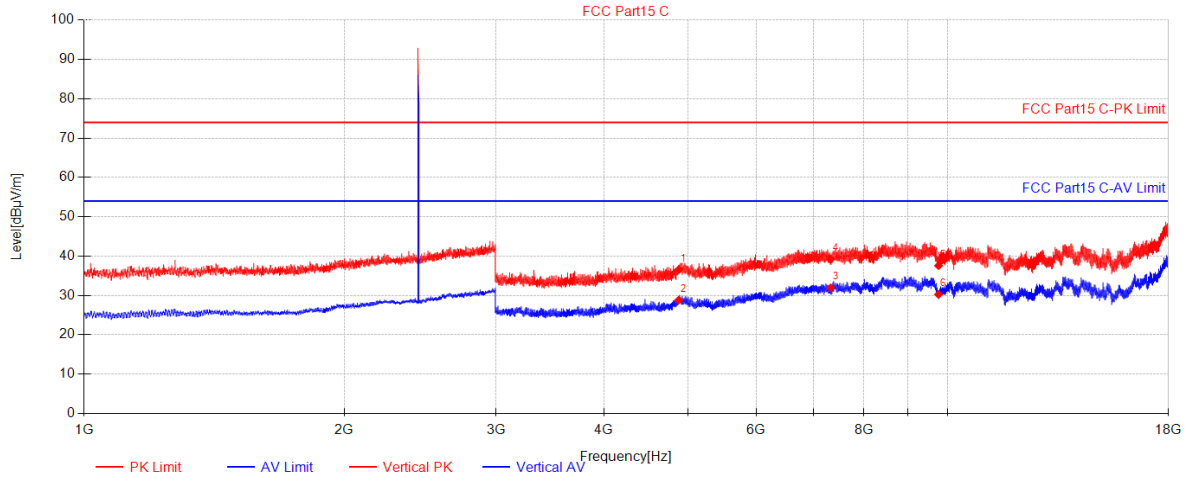


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BLE 2M_Channel 19



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880	49.53	-12.99	36.54	74.00	37.46	144	53	Vertical
2	4880	41.78	-12.99	28.79	54.00	25.21	263	103	Vertical
3	7320	39.10	-7.15	31.95	54.00	22.05	200	348	Vertical
4	7320	46.37	-7.15	39.22	74.00	34.78	192	251	Vertical
5	9760	38.76	-1.20	37.56	74.00	36.44	127	188	Vertical
6	9760	31.45	-1.20	30.25	54.00	23.75	224	204	Vertical

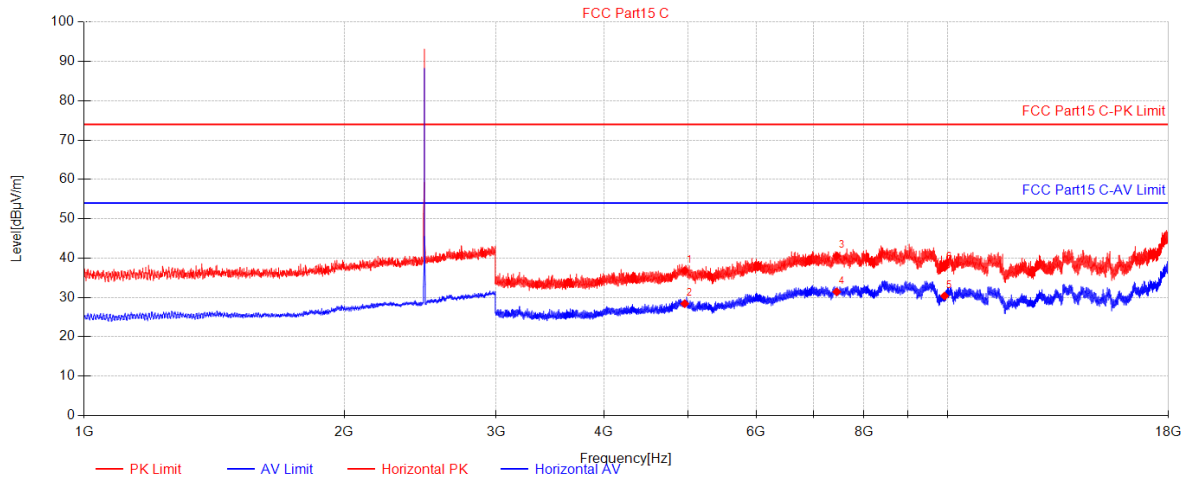


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Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.63	-12.83	36.80	74.00	37.20	196	152	Horizontal
2	4960.0000	41.24	-12.83	28.41	54.00	25.59	124	102	Horizontal
3	7440.0000	47.36	-6.83	40.53	74.00	33.47	254	330	Horizontal
4	7440.0000	38.25	-6.83	31.42	54.00	22.58	198	4	Horizontal
5	9920.0000	31.31	-0.93	30.38	54.00	23.62	178	221	Horizontal
6	9920.0000	38.58	-0.93	37.65	74.00	36.35	163	185	Horizontal

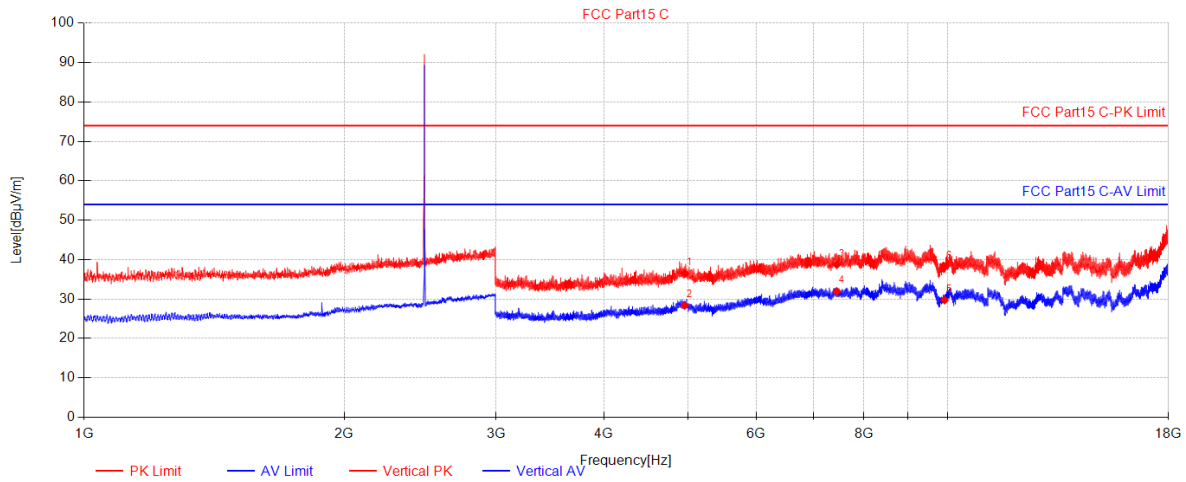


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Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.33	-12.83	36.50	74.00	37.50	228	349	Vertical
2	4960.0000	41.20	-12.83	28.37	54.00	25.63	228	124	Vertical
3	7440.0000	45.54	-6.83	38.71	74.00	35.29	194	358	Vertical
4	7440.0000	38.77	-6.83	31.94	54.00	22.06	145	111	Vertical
5	9920.0000	30.65	-0.93	29.72	54.00	24.28	269	126	Vertical
6	9920.0000	39.08	-0.93	38.15	74.00	35.85	123	152	Vertical



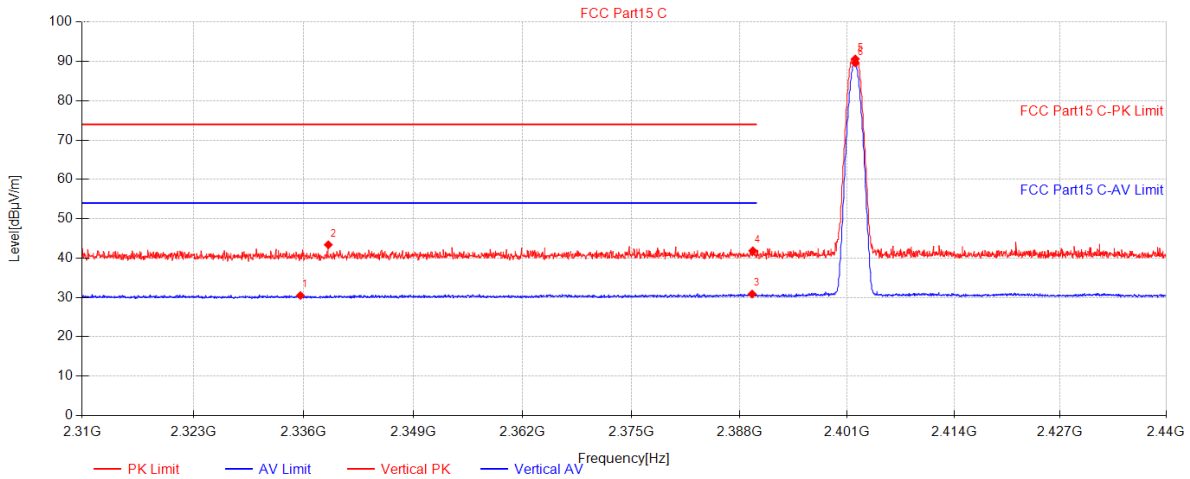
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Restricted bands around fundamental frequency

Emission_Band edge

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	2335.61	27.41	3.09	30.50	54.00	23.50	270	250	Vertical
2	2338.9033	40.30	3.09	43.39	74.00	30.61	270	250	Vertical
3	2389.5167	27.80	3.07	30.87	54.00	23.13	270	250	Vertical
4	2389.6033	38.80	3.07	41.87	74.00	32.13	270	250	Vertical
5	2402	87.54	3.08	90.62	-	-	270	250	Vertical
6	2402	86.53	3.08	89.61	-	-	270	250	Vertical



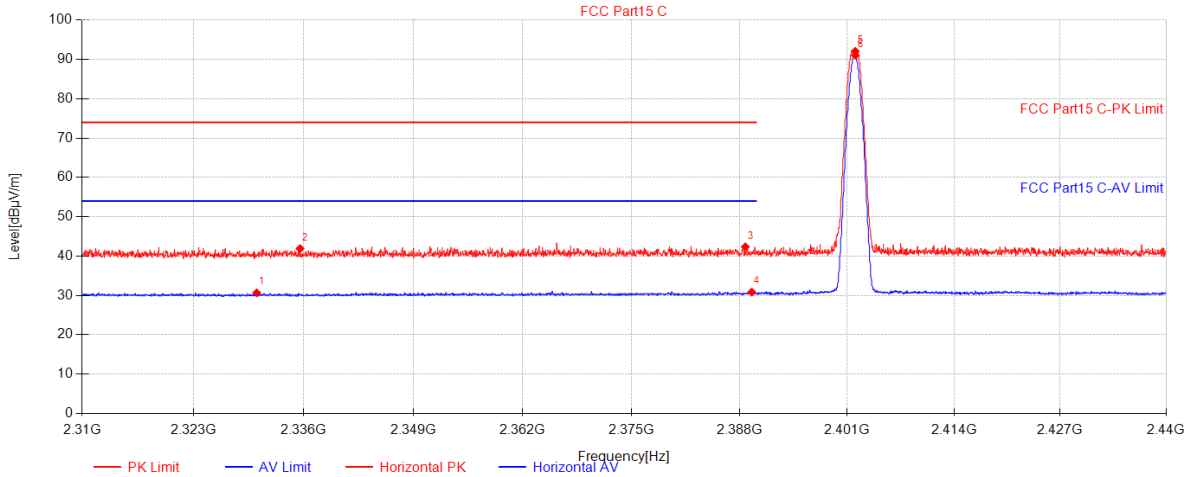
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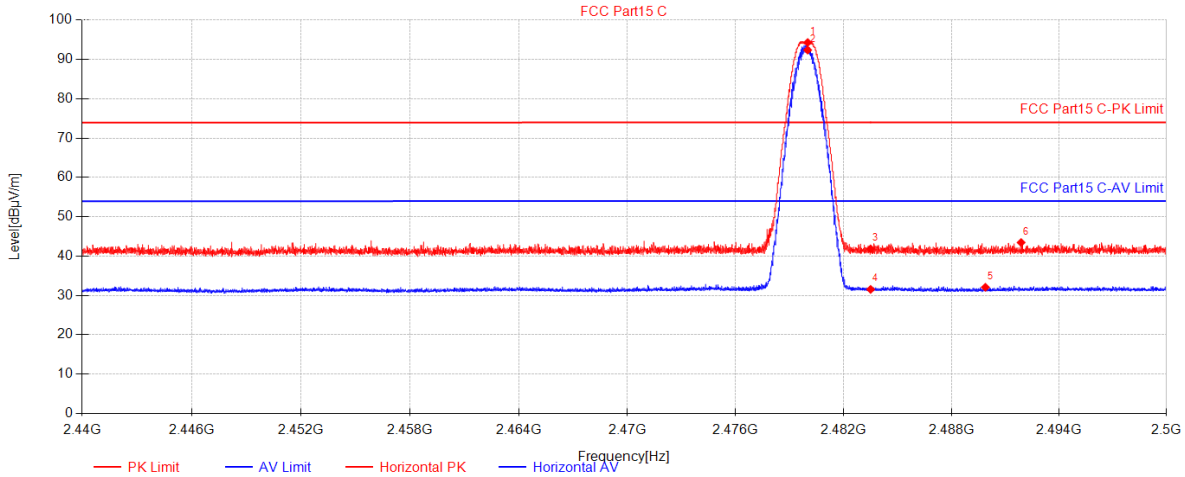
Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2330.4533	27.58	3.09	30.67	54.00	23.33	210	291	Horizontal
2	2335.5667	38.82	3.09	41.91	74.00	32.09	210	291	Horizontal
3	2388.6933	39.30	3.07	42.37	74.00	31.63	210	291	Horizontal
4	2389.4733	27.79	3.07	30.86	54.00	23.14	210	291	Horizontal
5	2402	89.00	3.08	92.08	-	-	210	291	Horizontal
6	2402	87.96	3.08	91.04	-	-	210	291	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	2480	90.72	3.57	94.29	-	-	112	305	Horizontal
2	2480	88.80	3.57	92.37	-	-	112	305	Horizontal
3	2483.5	38.24	3.60	41.84	74.00	32.16	112	305	Horizontal
4	2483.5	27.94	3.60	31.54	54.00	22.46	112	305	Horizontal
5	2489.8975	28.44	3.64	32.08	54.00	21.92	112	305	Horizontal
6	2491.8925	39.81	3.65	43.46	74.00	30.54	112	305	Horizontal

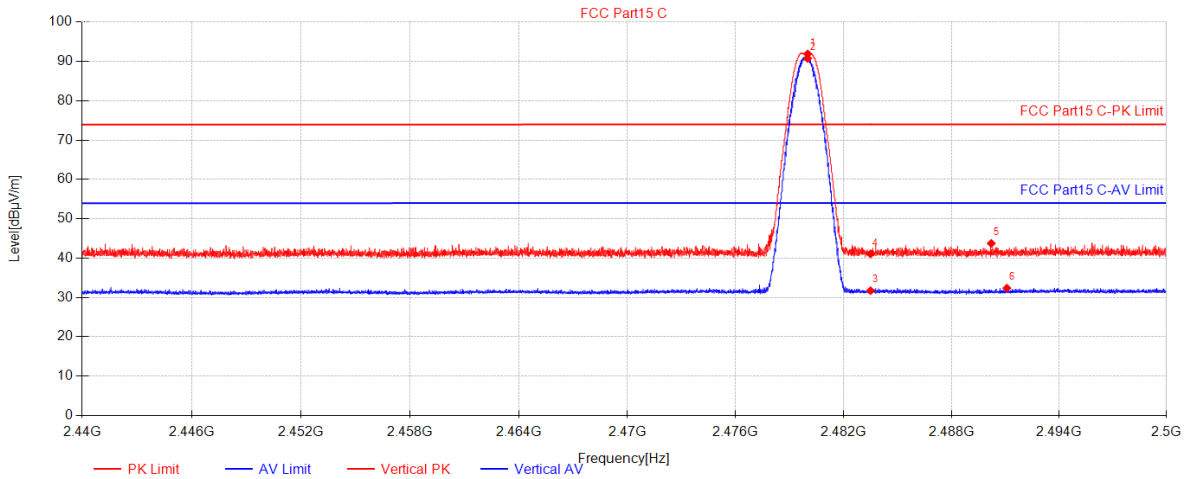


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BLE 1M_Channel 39



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	88.34	3.57	91.91	-	-	284	249	Vertical
2	2480	87.16	3.57	90.73	-	-	284	249	Vertical
3	2483.5	28.12	3.60	31.72	54.00	22.28	284	249	Vertical
4	2483.5	37.47	3.60	41.07	74.00	32.93	284	249	Vertical
5	2490.2275	40.10	3.64	43.74	74.00	30.26	284	249	Vertical
6	2491.0975	28.73	3.64	32.37	54.00	21.63	284	249	Vertical



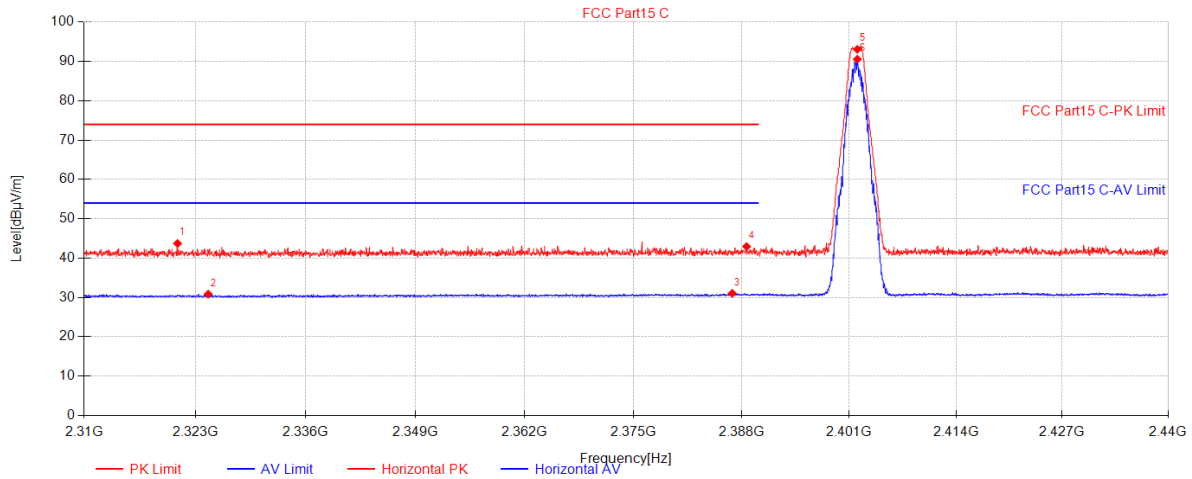
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BLE 2M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2320.92	40.63	3.09	43.72	74.00	30.28	288	304	Horizontal
2	2324.5167	27.75	3.09	30.84	54.00	23.16	288	304	Horizontal
3	2386.8733	27.98	3.07	31.05	54.00	22.95	288	304	Horizontal
4	2388.6067	39.86	3.07	42.93	74.00	31.07	288	304	Horizontal
5	2402	89.99	3.08	93.07	-	-	288	304	Horizontal
6	2402	87.47	3.08	90.55	-	-	288	304	Horizontal



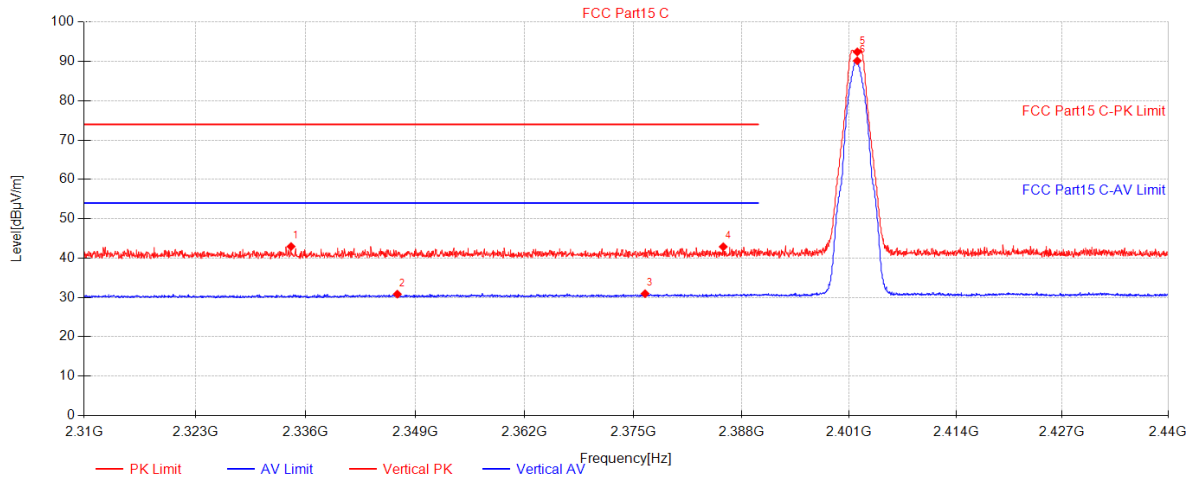
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BLE 2M_Channel 00



Data List									
NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2334.2667	39.86	3.09	42.95	74.00	31.05	162	291	Vertical
2	2346.8333	27.75	3.09	30.84	54.00	23.16	162	291	Vertical
3	2376.3867	27.88	3.08	30.96	54.00	23.04	162	291	Vertical
4	2385.79	39.82	3.07	42.89	74.00	31.11	162	291	Vertical
5	2402	89.33	3.08	92.41	-	-	162	291	Vertical
6	2402	87.07	3.08	90.15	-	-	162	291	Vertical



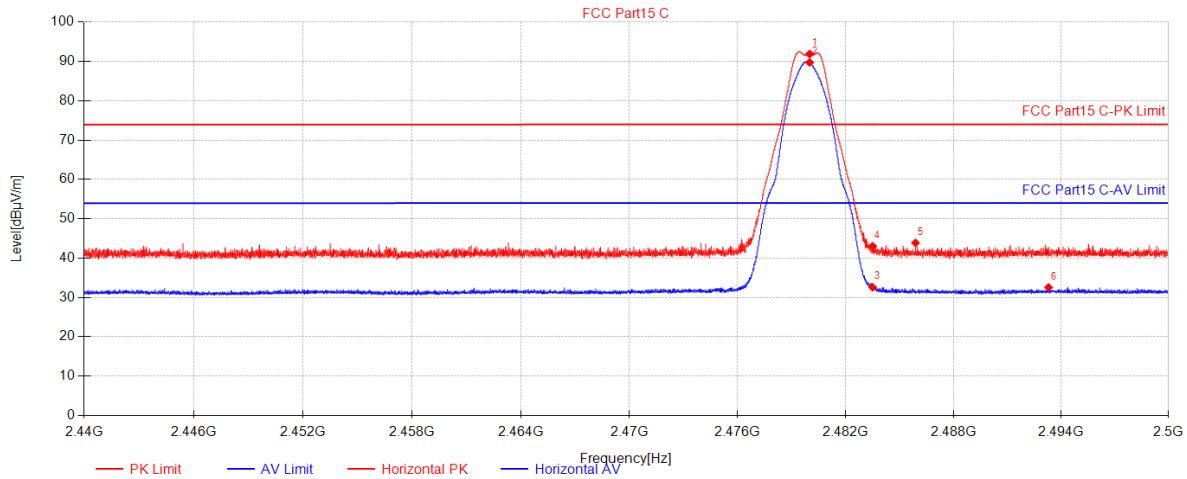
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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	88.32	3.57	91.89	-	-	288	110	Horizontal
2	2480	86.15	3.57	89.72	-	-	288	100	Horizontal
3	2483.5	28.99	3.60	32.59	54.00	21.41	288	110	Horizontal
4	2483.5	39.42	3.60	43.02	74.00	30.98	288	110	Horizontal
5	2485.8925	40.26	3.61	43.87	74.00	30.13	288	110	Horizontal
6	2493.3175	28.88	3.66	32.54	54.00	21.46	288	110	Horizontal



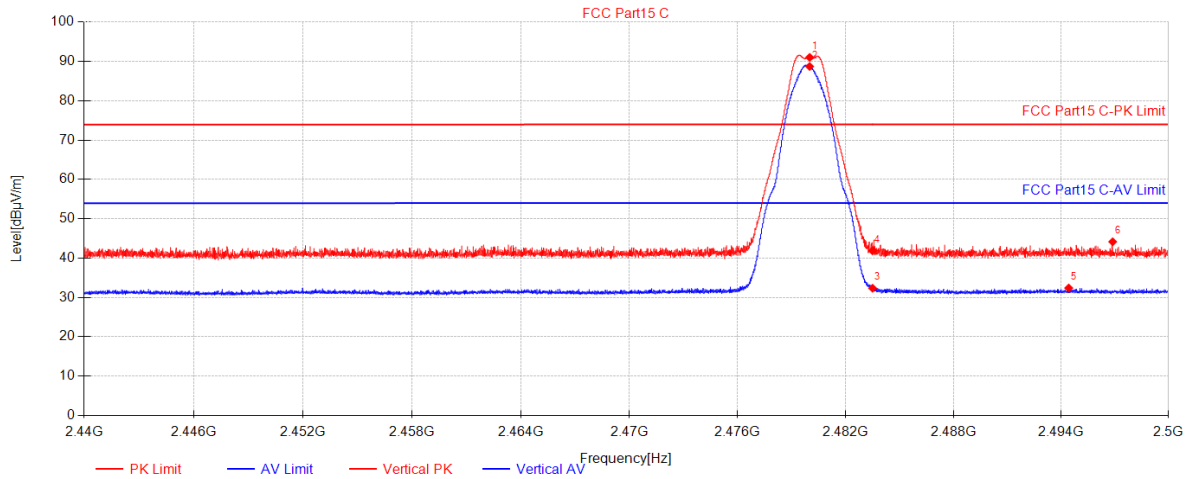
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NO.	Frequency [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480	87.45	3.57	91.02	-	-	282	252	Vertical
2	2480	85.14	3.57	88.71	-	-	282	252	Vertical
3	2483.5	28.75	3.60	32.35	54.00	21.65	282	252	Vertical
4	2483.5	38.24	3.60	41.84	74.00	32.16	282	252	Vertical
5	2494.4425	28.74	3.66	32.40	54.00	21.60	282	252	Vertical
6	2496.9025	40.48	3.68	44.16	74.00	29.84	282	252	Vertical

The End



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