

Report No.: SEWM2206000086RG03

Rev.: 01

Page: 1 of 88

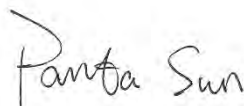
TEST REPORT

Application No.: SEWM2206000086RG
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.: HB286ZJ
Trade Mark: Lenovo
FCC ID: O57HB286ZJ
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/06/20
Date of Test: 2022/06/20 to 2022/07/18
Date of Issue: 2022/07/21

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		2022/07/21		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

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

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:	Lves Cheng, 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:	Portable Tablet Computer
Model No.:	HB286ZJ
Trade Mark:	Lenovo
Hardware Version:	V1
Software Version:	HB286ZJ_RF04_2205091416
IMEI:	860893060010441 860893060010698
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 V5.1
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	<input checked="" type="checkbox"/> Provided by client
	1M PHY 2M PHY
Antenna Type:	PIFA Antenna
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client
	1.5dBi(ANT7)
RF Cable:	1dB

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.

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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

3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-60 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~25	3.85

Remark:

NV: Normal Voltage

NT: Normal Temperature

3.6 Description of Support Units

The EUT has been tested as an 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(b)
<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 1.5dBi(ANT7). (Provided by client)*.</p>	
<p><i>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.</i></p> <p><i>Remark:</i> 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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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
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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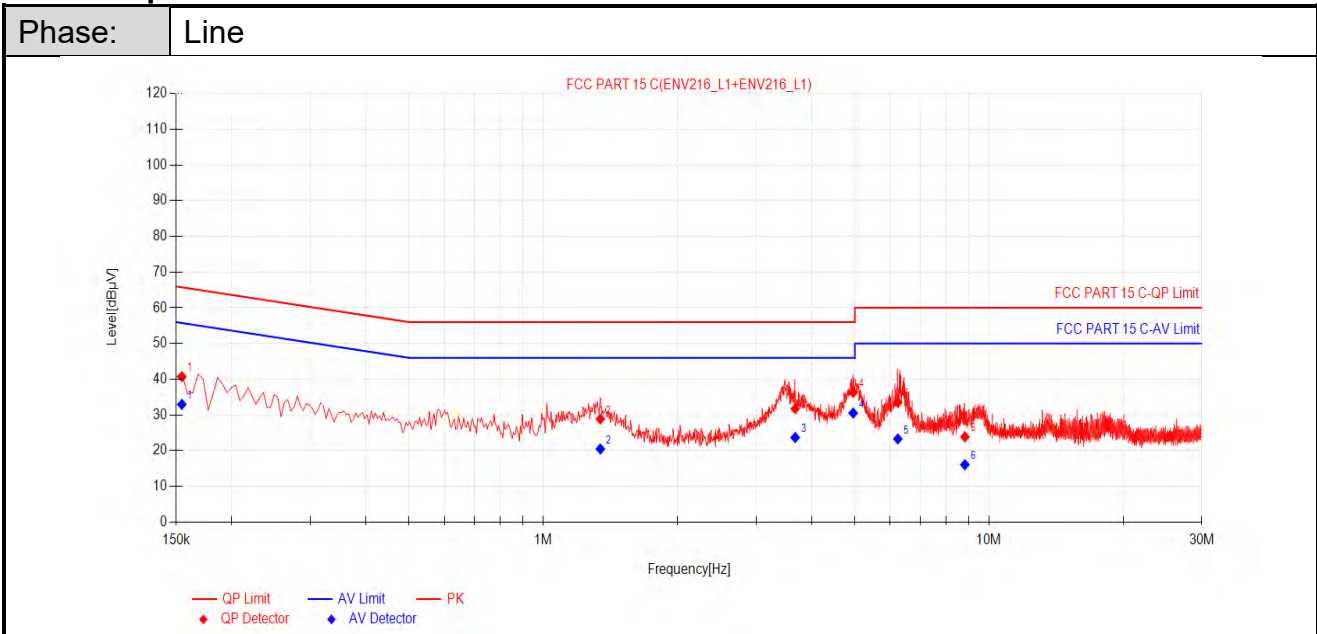
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Measurement Data

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.

For Sample #1:



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.64	30.09	40.73	65.75	25.02	22.32	32.96	55.75	22.79	PASS
2	1.3425	10.78	18.09	28.87	56.00	27.13	9.70	20.48	46.00	25.52	PASS
3	3.6735	10.71	21.04	31.75	56.00	24.25	12.97	23.68	46.00	22.32	PASS
4	4.9560	10.64	25.64	36.28	56.00	19.72	19.89	30.53	46.00	15.47	PASS
5	6.2430	10.69	22.84	33.53	60.00	26.47	12.62	23.31	50.00	26.69	PASS
6	8.8260	10.66	13.21	23.87	60.00	36.13	5.42	16.08	50.00	33.92	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)

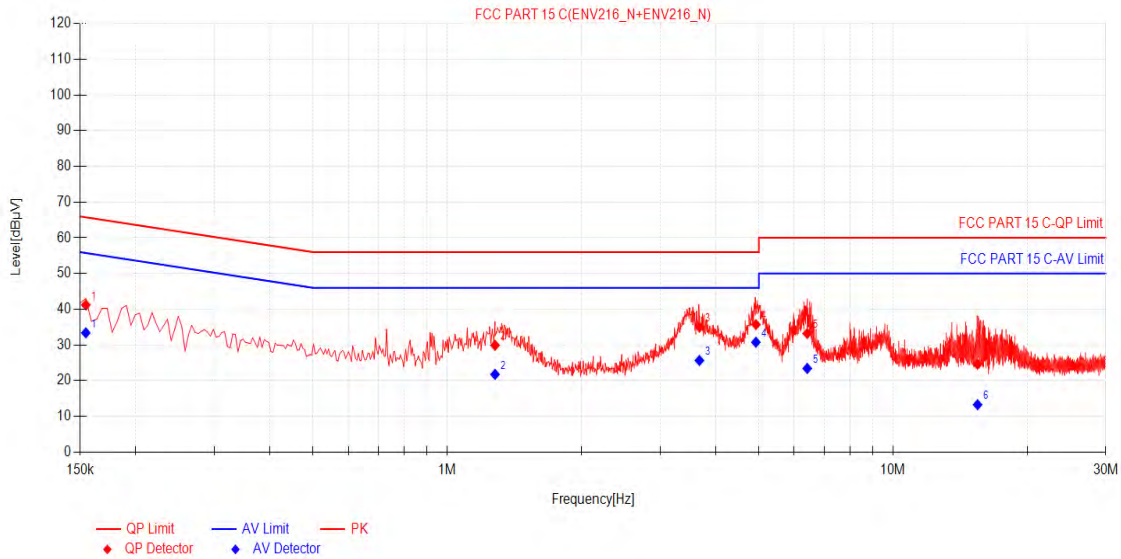


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.72	30.48	41.20	65.75	24.55	22.66	33.38	55.75	22.37	PASS
2	1.2795	10.78	19.13	29.91	56.00	26.09	10.98	21.76	46.00	24.24	PASS
3	3.6780	10.70	24.30	35.00	56.00	21.00	14.95	25.65	46.00	20.35	PASS
4	4.9245	10.64	25.08	35.72	56.00	20.28	20.12	30.76	46.00	15.24	PASS
5	6.4185	10.55	22.66	33.21	60.00	26.79	12.87	23.42	50.00	26.58	PASS
6	15.4770	10.59	14.00	24.59	60.00	35.41	2.68	13.27	50.00	36.73	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
3. Margin = Limit(dBµV) – Value(dBµV)



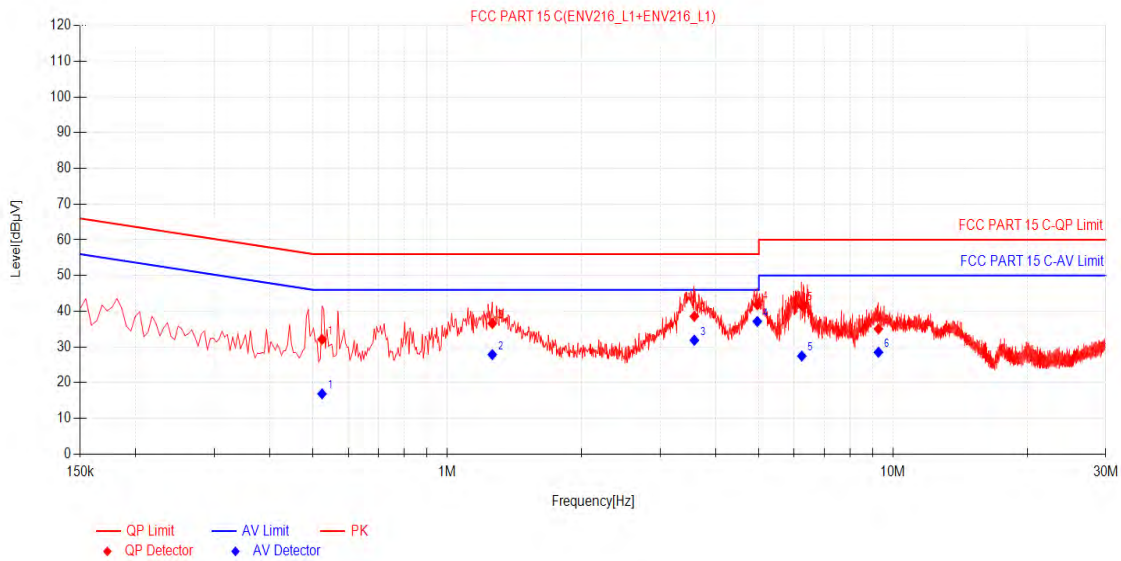
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For Sample #2:

Phase:	Line
--------	------



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5235	10.59	21.55	32.14	56.00	23.86	6.28	16.87	46.00	29.13	PASS
2	1.2615	10.78	25.81	36.59	56.00	19.41	17.08	27.86	46.00	18.14	PASS
3	3.5835	10.71	27.87	38.58	56.00	17.42	21.17	31.88	46.00	14.12	PASS
4	4.9605	10.64	31.19	41.83	56.00	14.17	26.50	37.14	46.00	8.86	PASS
5	6.2430	10.69	30.93	41.62	60.00	18.38	16.77	27.46	50.00	22.54	PASS
6	9.2760	10.66	24.40	35.06	60.00	24.94	17.85	28.51	50.00	21.49	PASS

Remark:

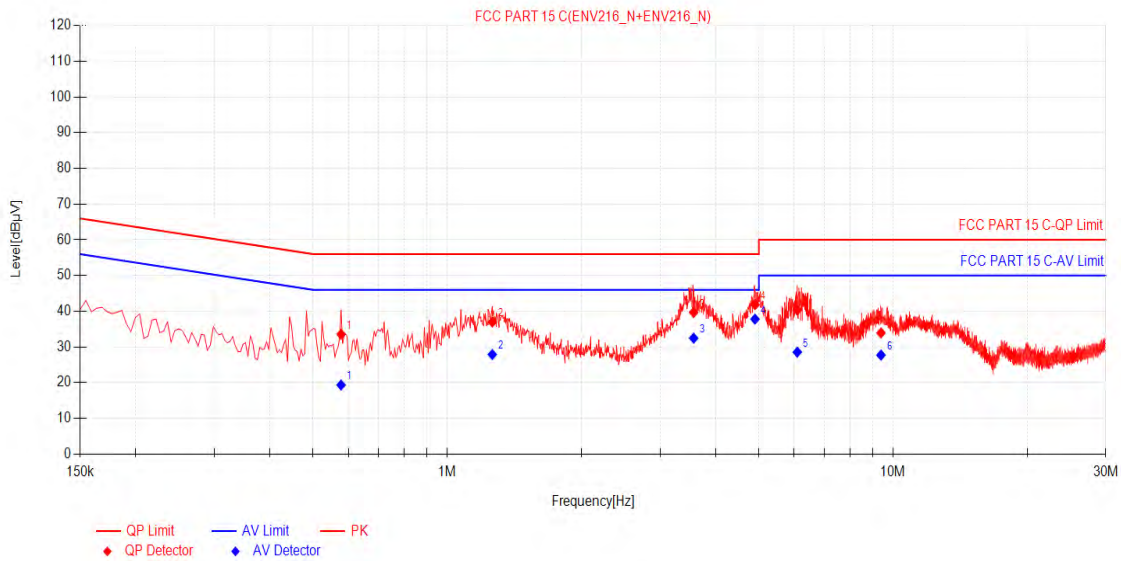
- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.5775	10.71	22.83	33.54	56.00	22.46	8.63	19.34	46.00	26.66	PASS
2	1.2615	10.78	26.22	37.00	56.00	19.00	17.11	27.89	46.00	18.11	PASS
3	3.5700	10.68	29.00	39.68	56.00	16.32	21.79	32.47	46.00	13.53	PASS
4	4.9020	10.64	31.22	41.86	56.00	14.14	27.16	37.80	46.00	8.20	PASS
5	6.0990	10.58	29.75	40.33	60.00	19.67	17.97	28.55	50.00	21.45	PASS
6	9.3975	10.64	23.30	33.94	60.00	26.06	17.09	27.73	50.00	22.27	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading(dBµV) + Factor(Lin factor(dB) + cable loss(dB)).
- Margin = Limit(dBµV) – Value(dBµV)



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Report No.: SEWM2206000086RG03

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 Section11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



4.5 DTS (6 dB) Bandwidth & 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 / 6.9.3
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	



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 11.11
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	



4.8 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)				
Test Frequency:	9kHz ~ 25GHz				
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:

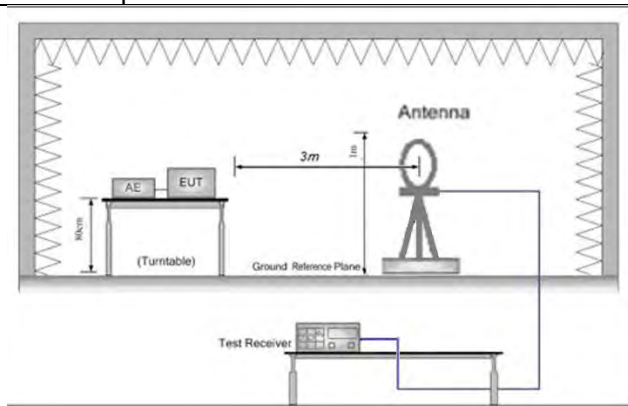


Figure 1. Below 30MHz

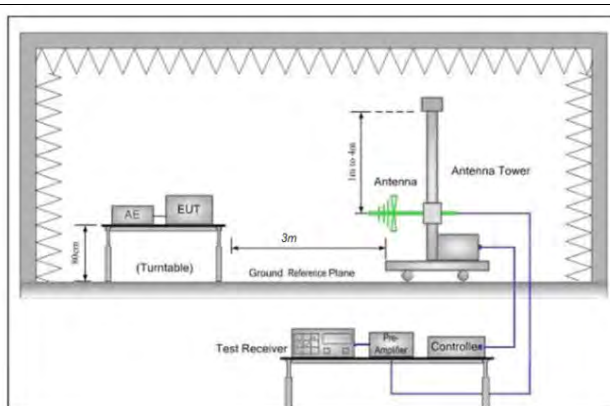


Figure 2. 30MHz to 1GHz



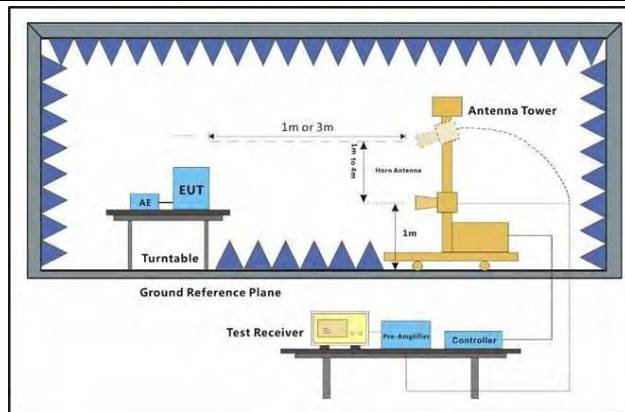


Figure 3. Above 1 GHz

<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 (Distance from antenna to EUT is 1m for measurements >18GHz). 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. 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. 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. 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 harmonics were the highest point could be found when testing, so only the harmonics had been displayed. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
<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



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	<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, For below 1GHz part, through pre-scan, the worst case is the lowest channel. 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	



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:

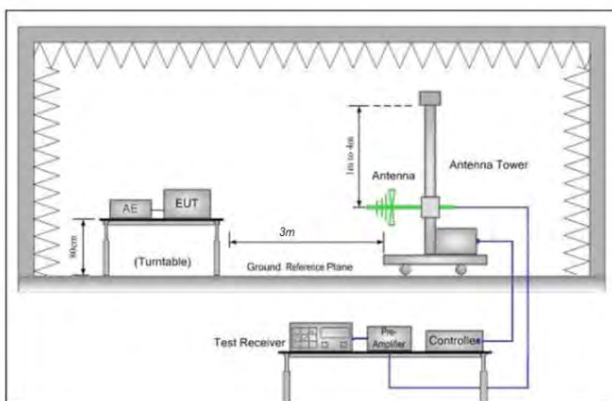


Figure 1. 30MHz to 1GHz

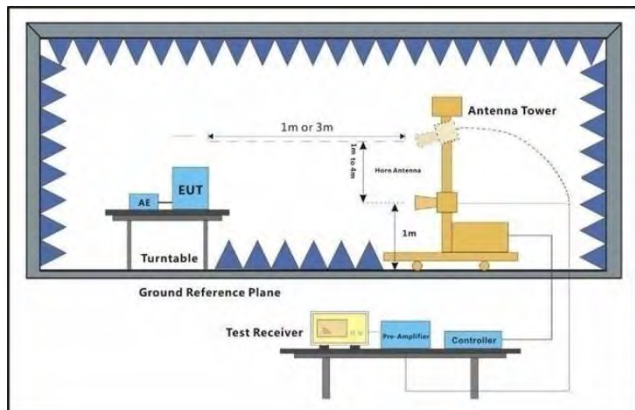


Figure 2. Above 1 GHz

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 frequency to show compliance. Also measure any emissions in the restricted



	<p>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.
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	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/04	2022/12/03
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/04	2022/12/03
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/02/15	2023/02/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/02/14	2023/02/13
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/02/14	2023/02/13

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/05/08	2024/05/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2022/02/16	2023/02/15
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2022/02/16	2023/02/15
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/16	2023/02/15
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2022/02/16	2023/02/15



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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	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/02/16	2023/02/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/04	2022/12/03
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/02/19	2023/02/18
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/02/15	2023/02/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/02/14	2023/02/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/02/19	2023/02/18
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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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	Ant7	2402	0.68	2401.65	2402.33	≥0.5	PASS
		2440	0.68	2439.65	2440.33	≥0.5	PASS
		2480	0.68	2479.65	2480.32	≥0.5	PASS
BLE_2M	Ant7	2402	1.15	2401.42	2402.57	≥0.5	PASS
		2440	1.16	2439.42	2440.58	≥0.5	PASS
		2480	1.15	2479.42	2480.57	≥0.5	PASS



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Test Graphs

BLE_1M_Ant7_2402



14:30:54 08.07.2022

BLE_1M_Ant7_2440



14:32:30 08.07.2022

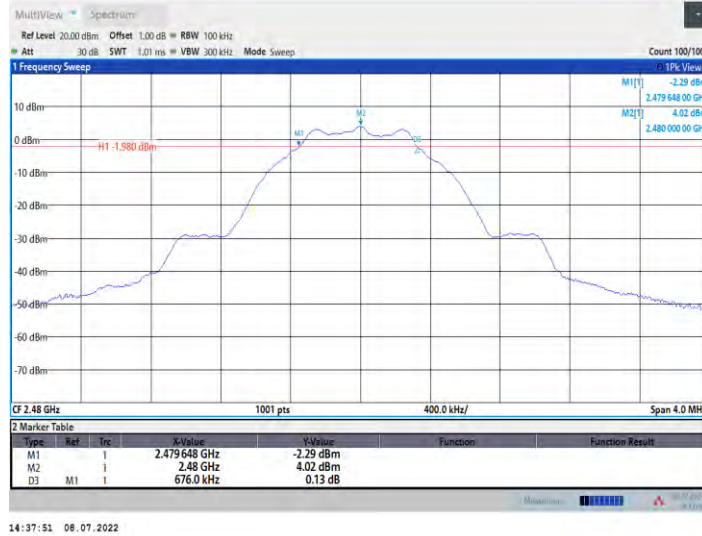


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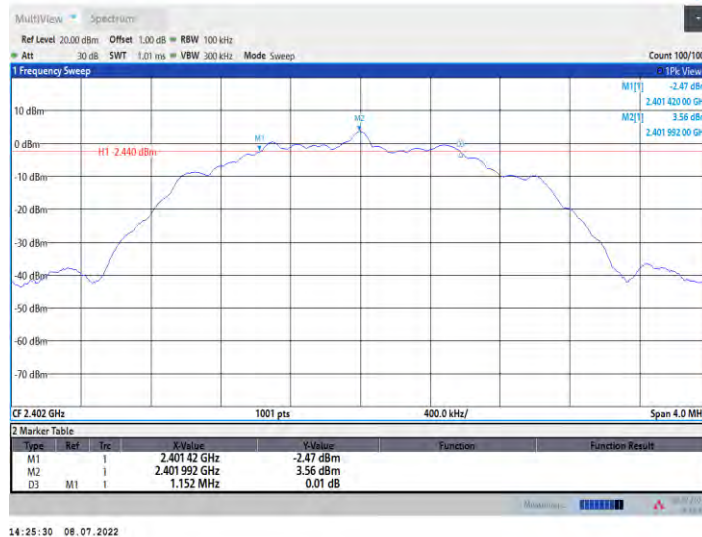
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BLE_1M_Ant7_2480



BLE_2M_Ant7_2402



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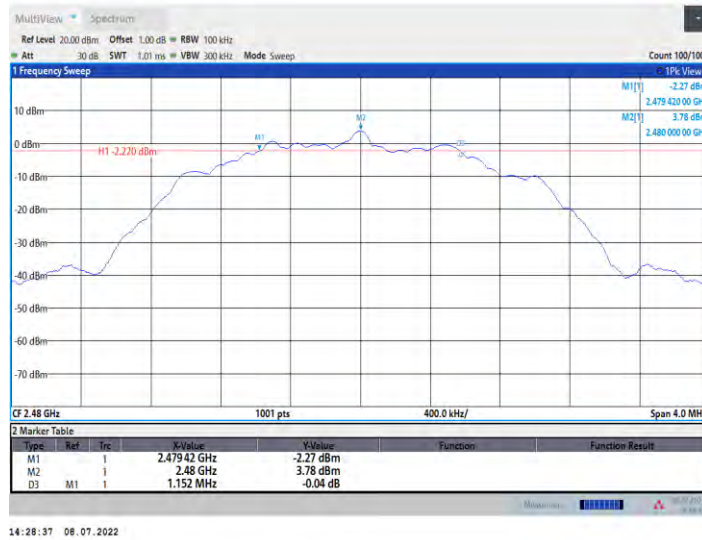
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant7	2402	1.027	2401.485	2402.512	---	---
		2440	1.025	2439.486	2440.511	---	---
		2480	1.026	2479.484	2480.510	---	---
BLE_2M	Ant7	2402	2.039	2400.986	2403.026	---	---
		2440	2.036	2438.990	2441.026	---	---
		2480	2.037	2478.985	2481.022	---	---



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Test Graphs

BLE_1M_Ant7_2402



14:31:06 08.07.2022

BLE_1M_Ant7_2440



14:32:41 08.07.2022



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BLE_1M_Ant7_2480



BLE_2M_Ant7_2402



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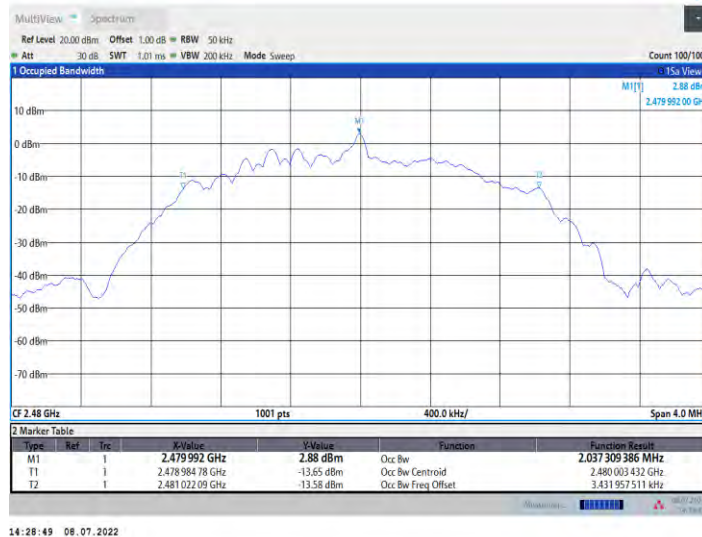
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BLE_2M_Ant7_2440



BLE_2M_Ant7_2480



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Report No.: SEWM2206000086RG03

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant7	2402	3.76	≤30	PASS
		2440	3.45	≤30	PASS
		2480	4.18	≤30	PASS
BLE_2M	Ant7	2402	3.93	≤30	PASS
		2440	3.52	≤30	PASS
		2480	4.24	≤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	Ant7	2402	-10.87	≤8.00	PASS
		2440	-11.36	≤8.00	PASS
		2480	-10.63	≤8.00	PASS
BLE_2M	Ant7	2402	-14.71	≤8.00	PASS
		2440	-15.02	≤8.00	PASS
		2480	-14.45	≤8.00	PASS



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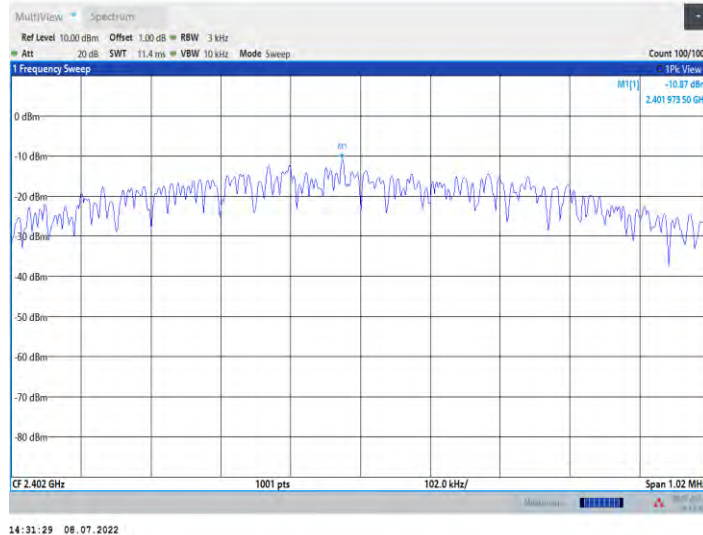
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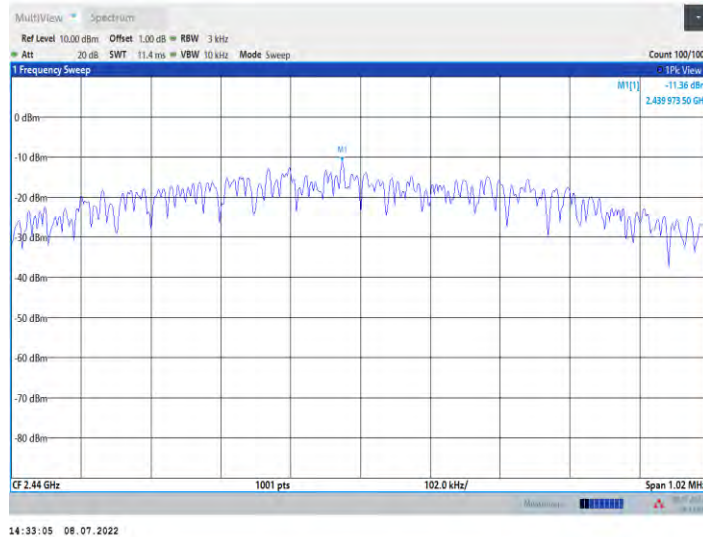
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Test Graphs

BLE_1M_Ant7_2402



BLE_1M_Ant7_2440

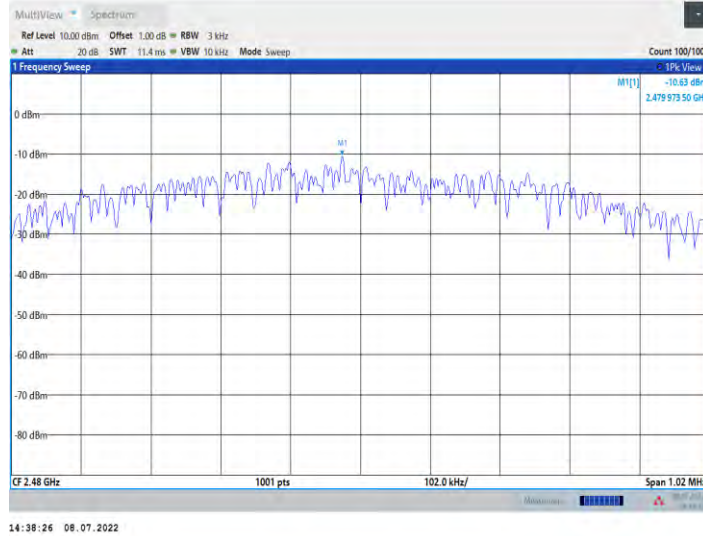


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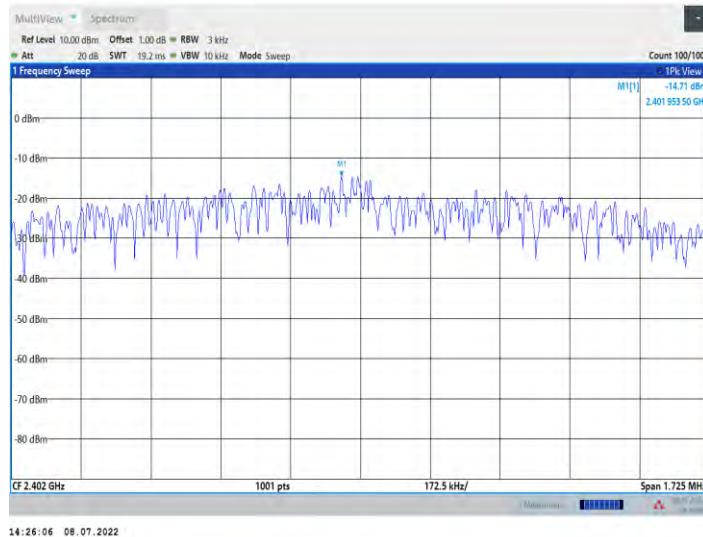
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BLE_1M_Ant7_2480



BLE_2M_Ant7_2402

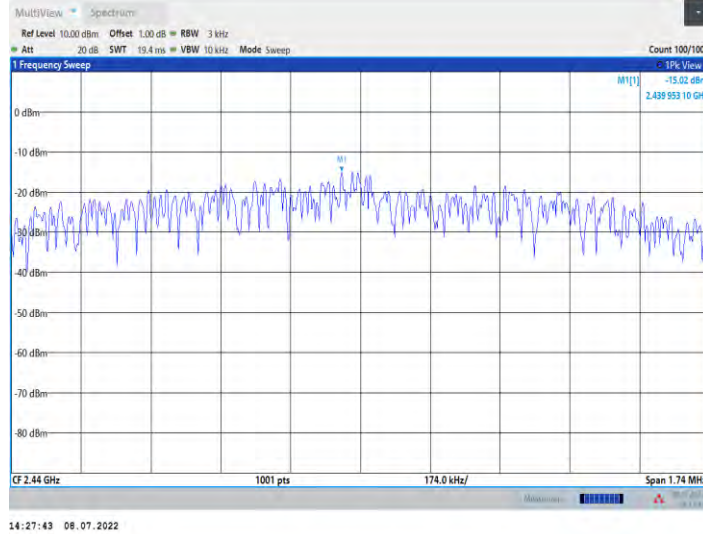


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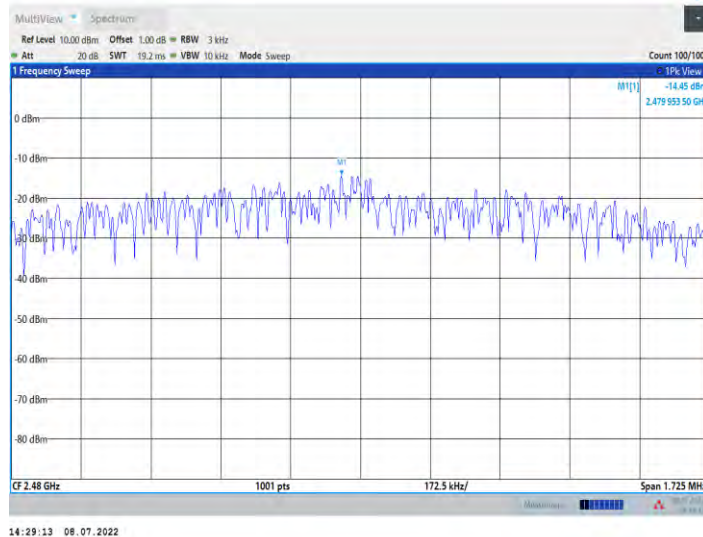
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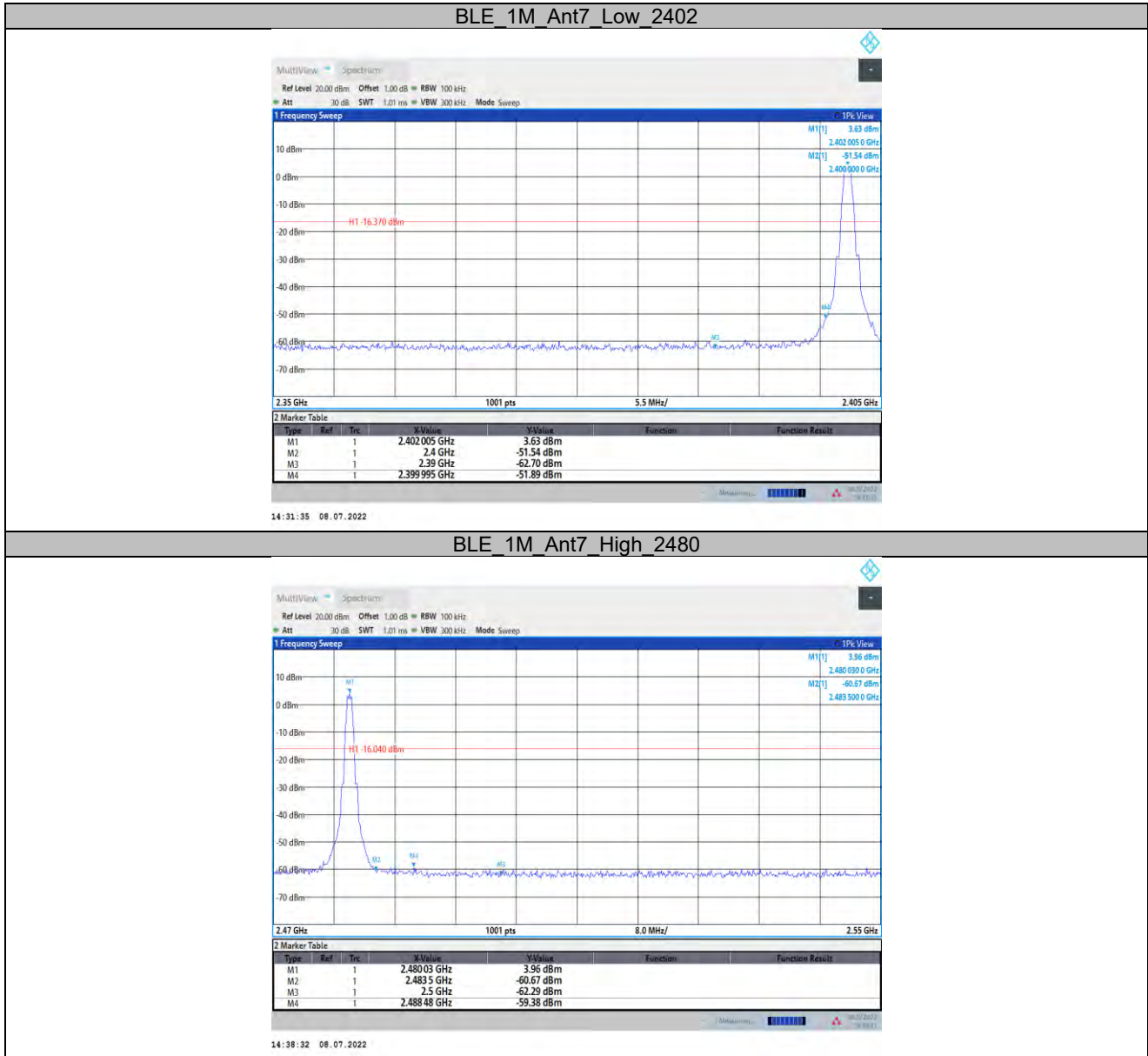


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Band edge measurements Test Graphs



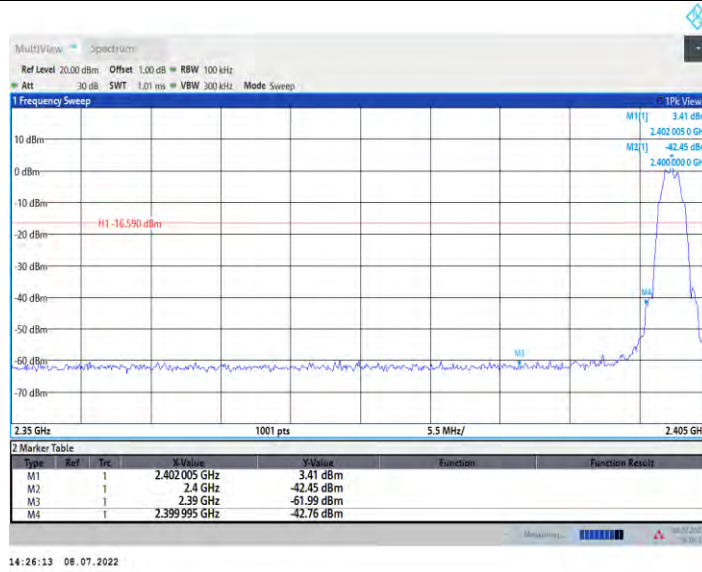
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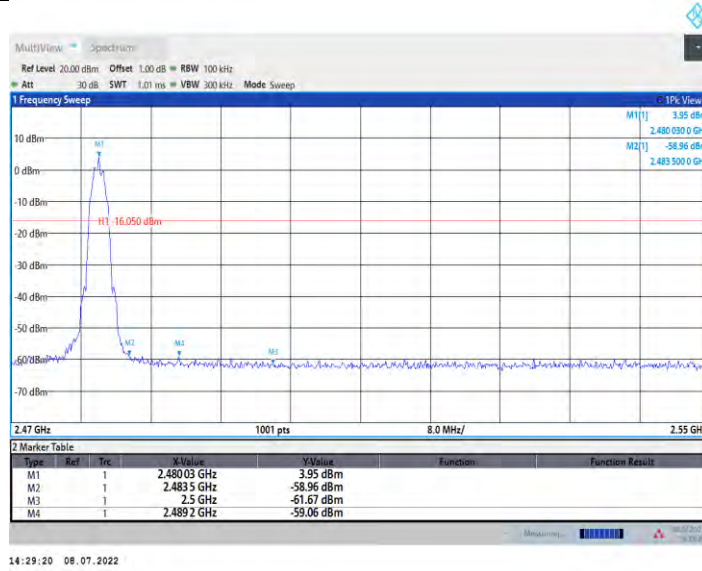
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BLE 2M Ant7 Low 2402



BLE 2M Ant7 High 2480



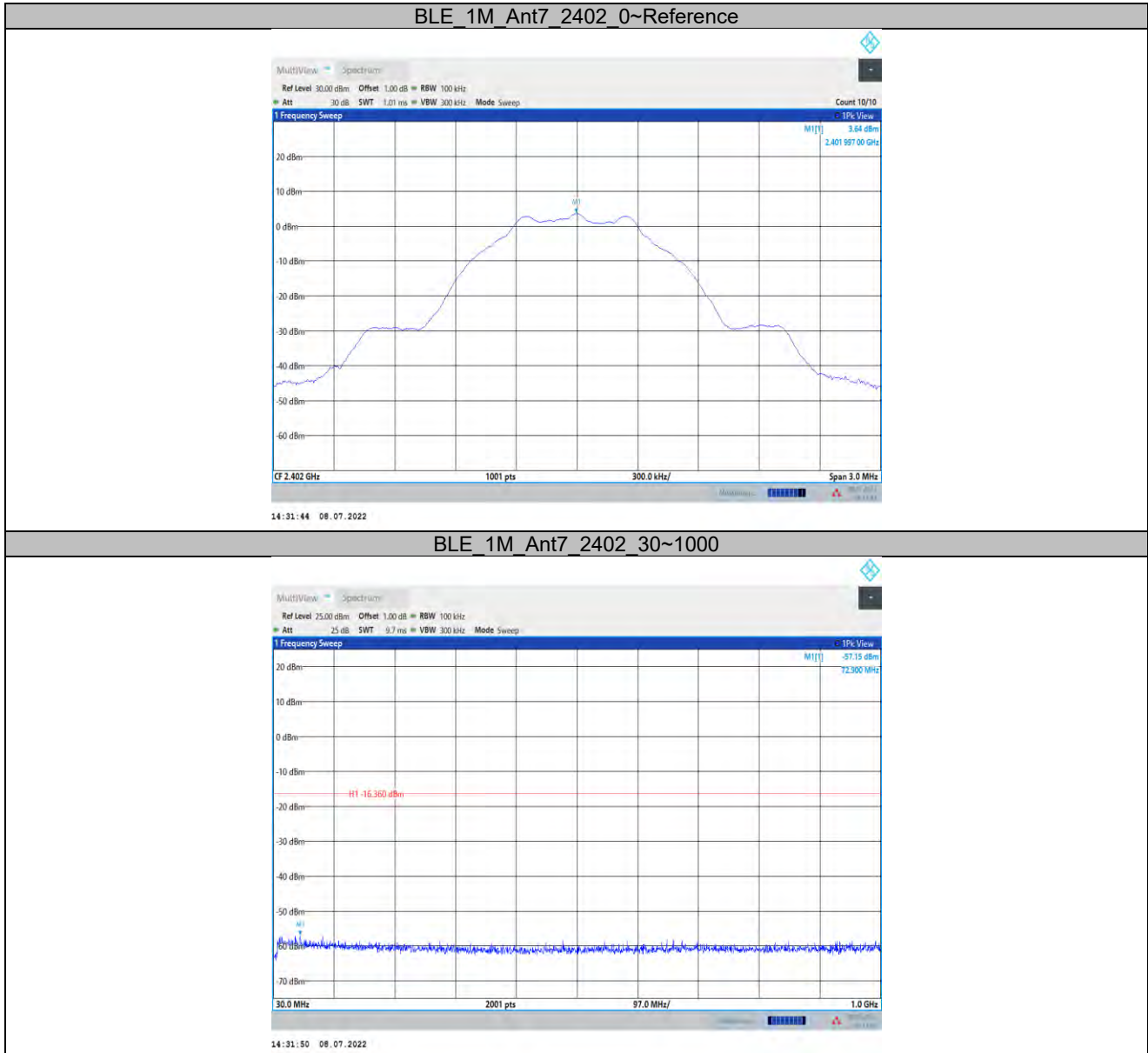
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Conducted Spurious Emission Test Graphs



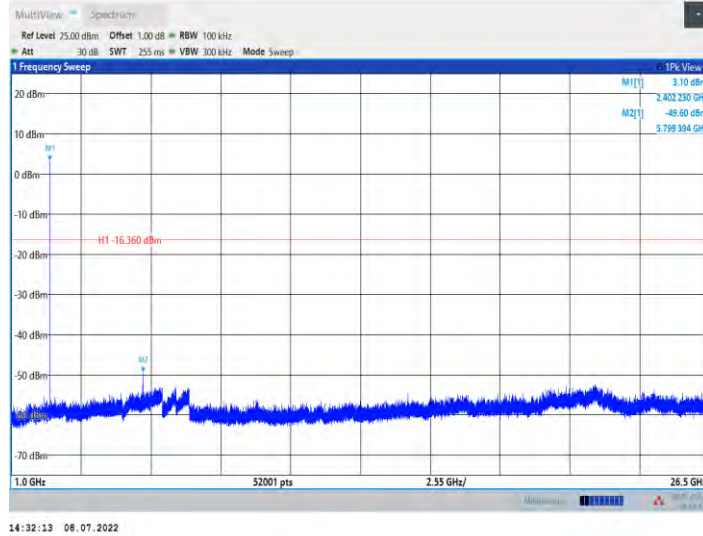
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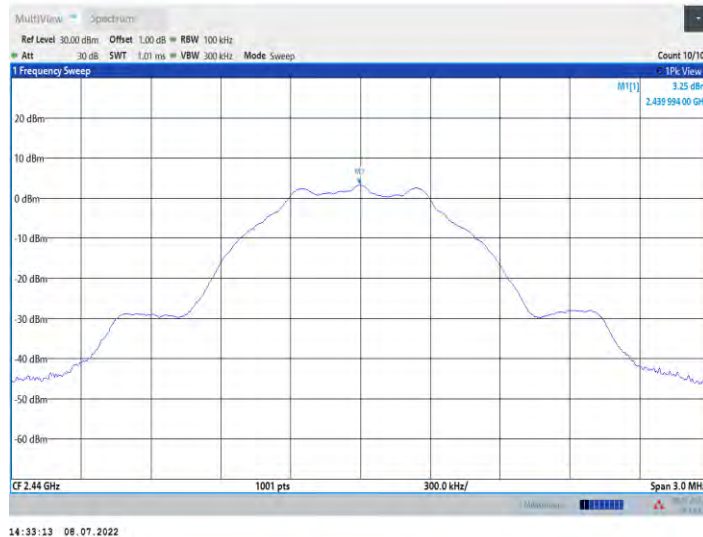
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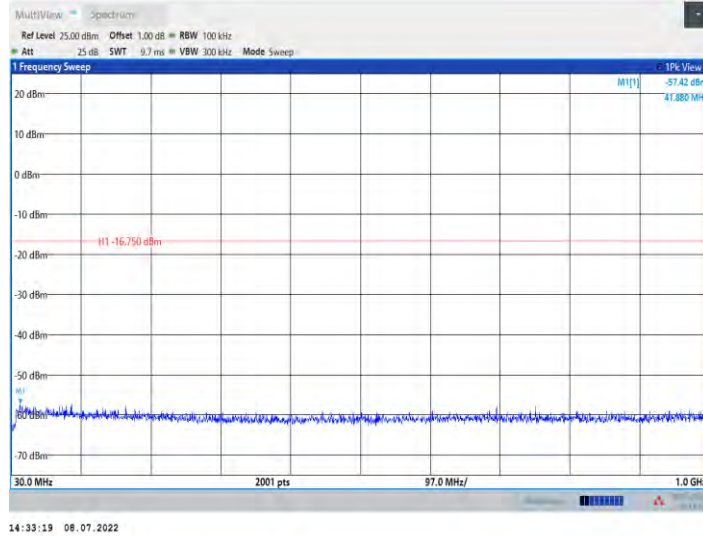


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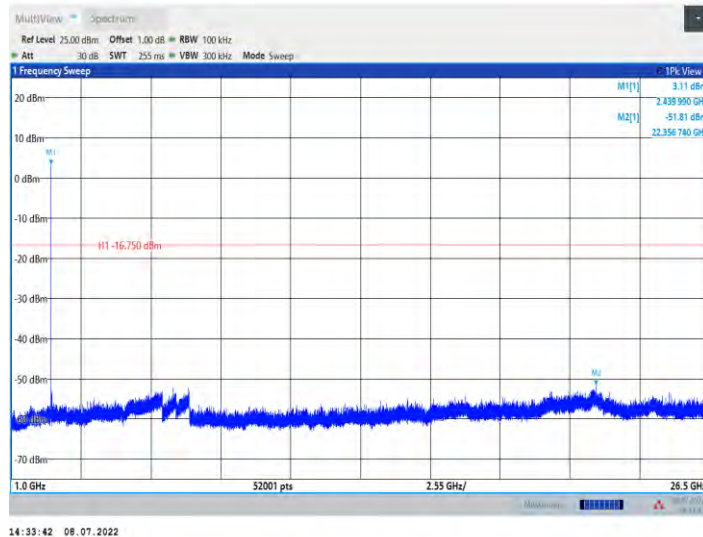
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BLE_1M_Ant7_2440_30~1000



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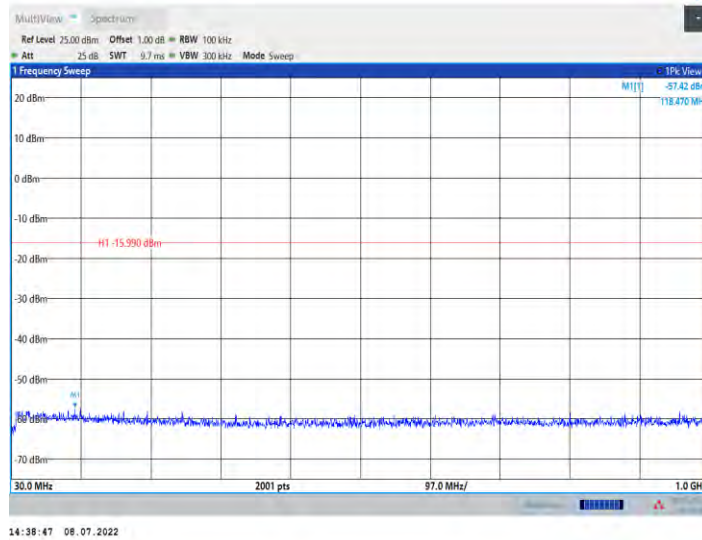
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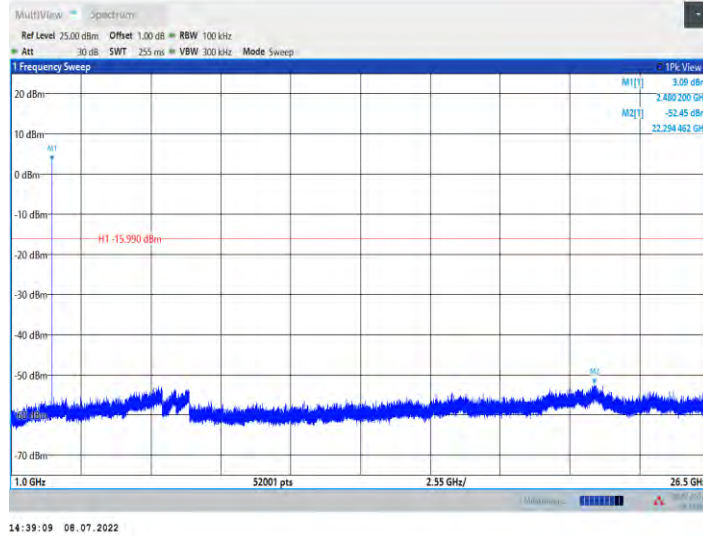


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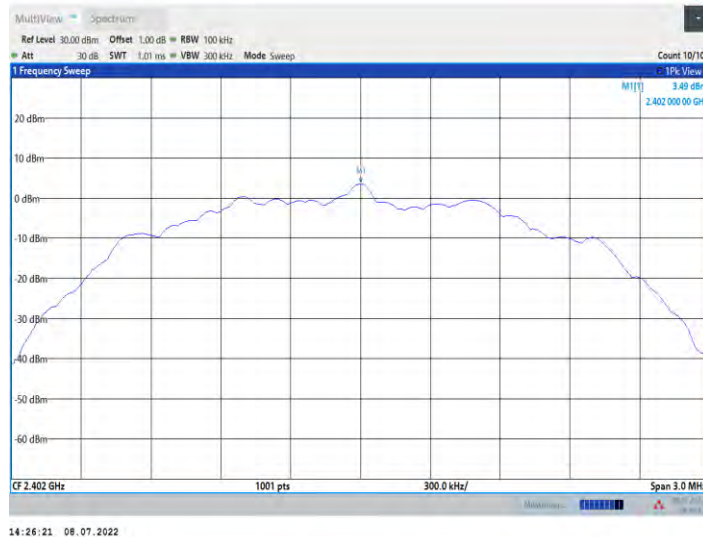
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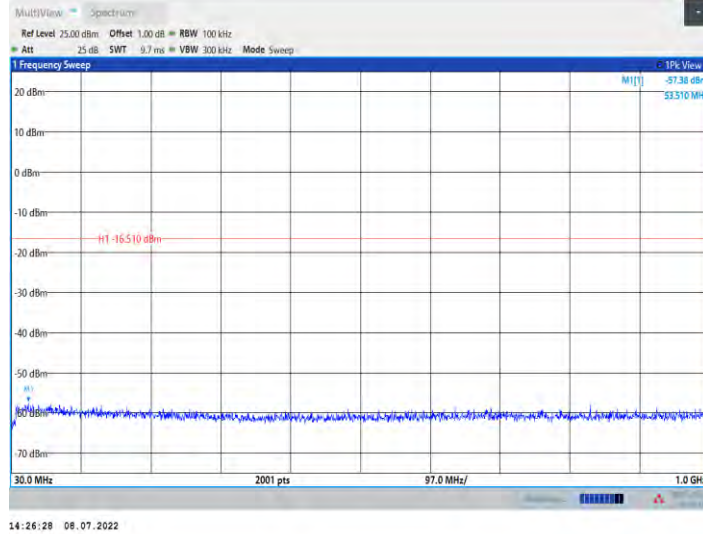


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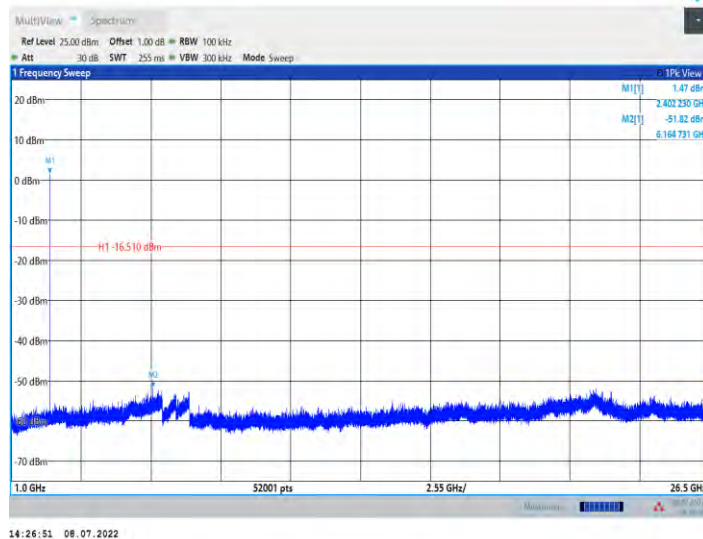
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BLE_2M_Ant7_2402_30~1000



BLE_2M_Ant7_2402_1000~26500



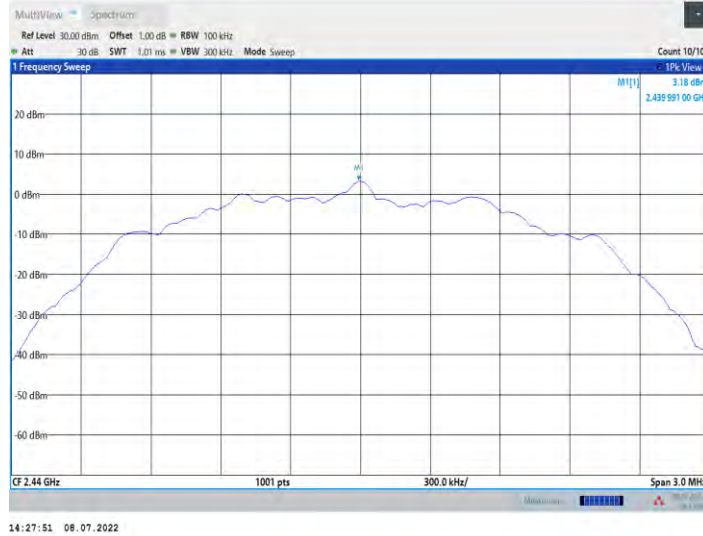
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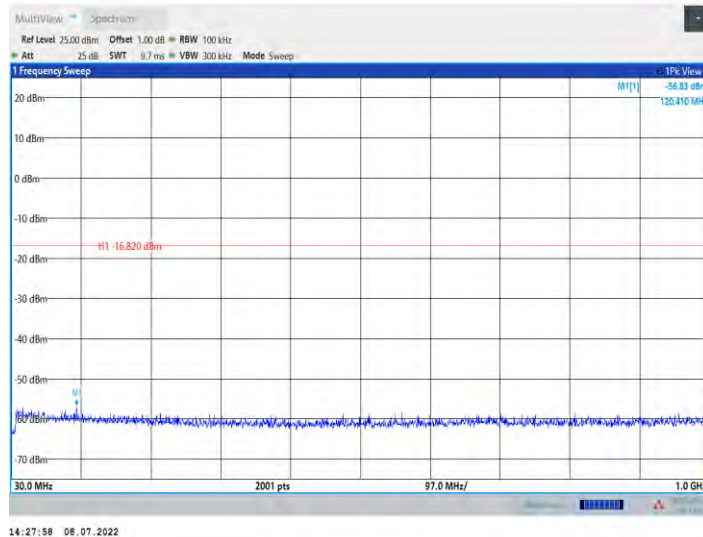
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BLE 2M Ant7 2440 0~Reference



BLE 2M Ant7 2440 30~1000

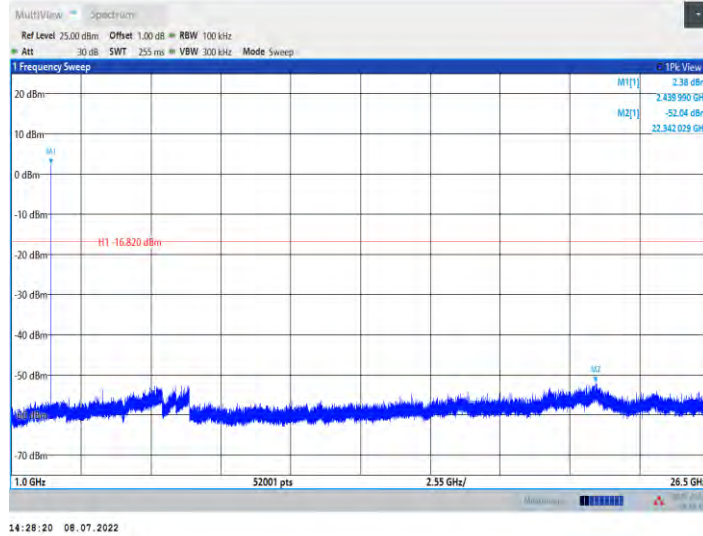


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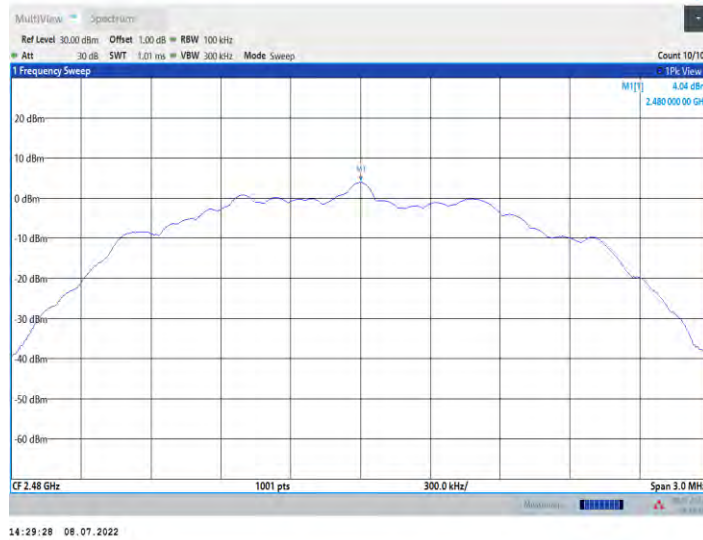
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BLE 2M Ant7 2440 1000~26500



BLE 2M Ant7 2480 0~Reference



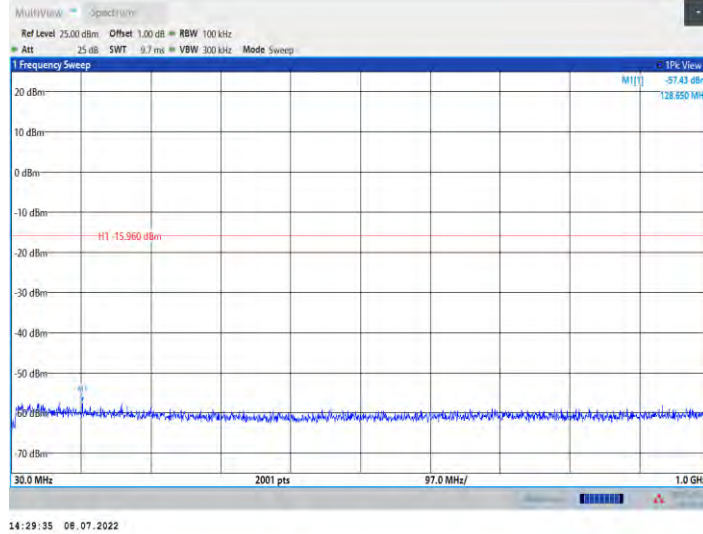
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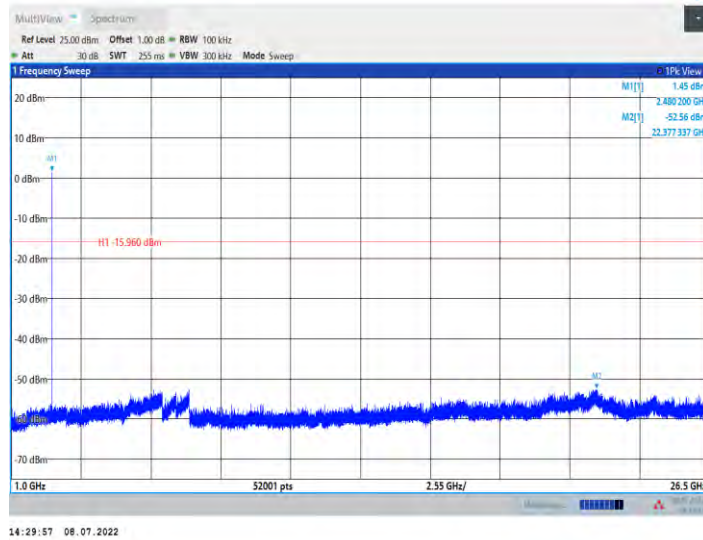
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BLE_2M_Ant7_2480_30~1000



BLE_2M_Ant7_2480_1000~26500



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Report No.: SEWM2206000086RG03

Rev.: 01

Page: 55 of 88

Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant7	2402	0.39	0.63	61.90	2.08
BLE_2M	Ant7	2402	0.20	0.62	32.26	4.91



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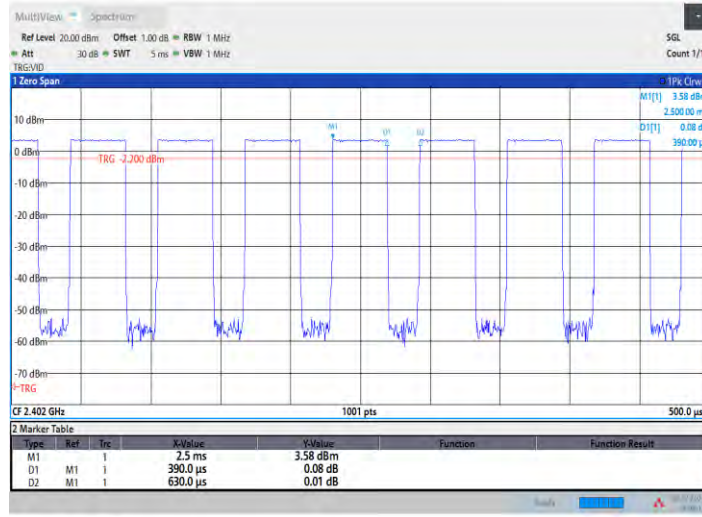
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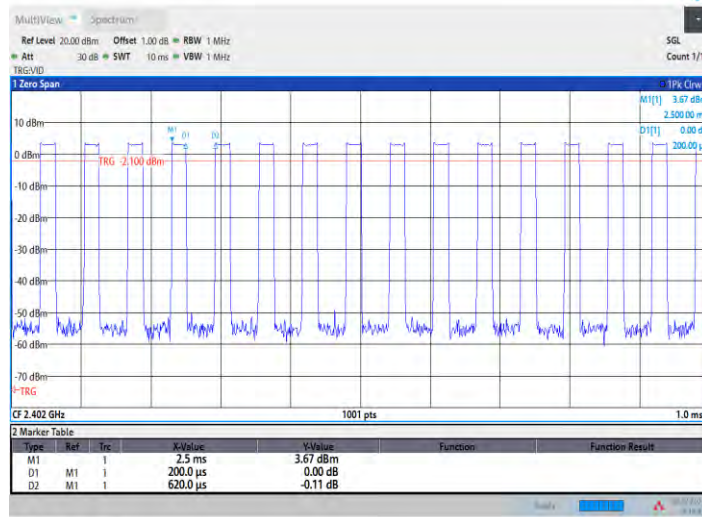
Test Graphs

BLE_1M_Ant7_2402



14:08:13 08.07.2022

BLE_2M_Ant7_2402



14:18:43 08.07.2022



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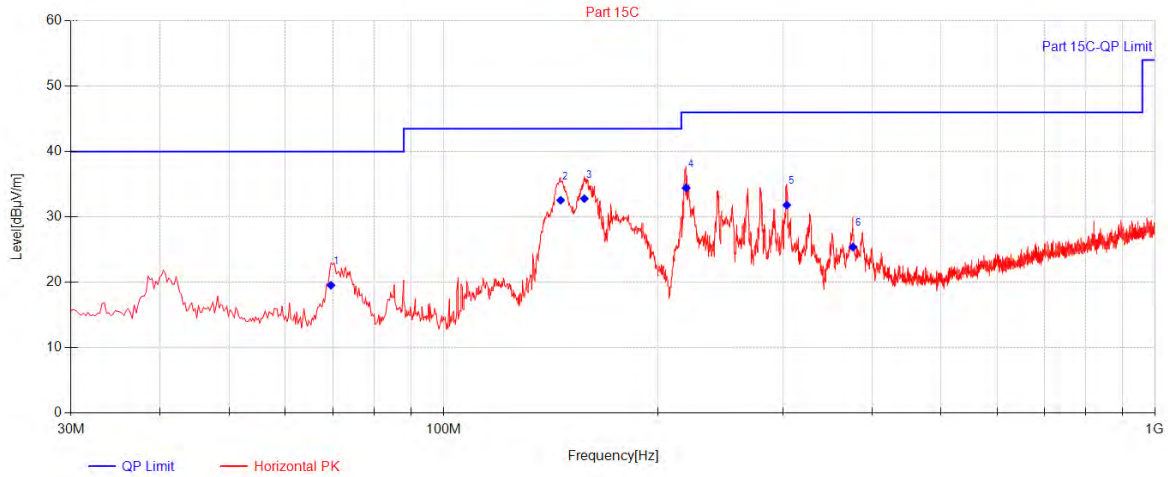
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Radiated Spurious Emissions

Radiated emission below 1GHz

For Sample #1:

Worst case Mode: BLE 1M _ Channel 39



Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	69.5275	45.13	-36.51	10.91	19.53	40.00	20.47	215	10	Horizontal
2	146.1575	54.19	-35.35	13.70	32.54	43.50	10.96	236	10	Horizontal
3	157.7975	54.03	-35.30	14.07	32.80	43.50	10.70	255	203	Horizontal
4	219.3925	58.78	-34.89	10.55	34.44	46.00	11.56	184	173	Horizontal
5	303.7825	53.22	-34.30	12.88	31.80	46.00	14.20	196	156	Horizontal
6	376.29	45.09	-34.02	14.31	25.38	46.00	20.62	175	0	Horizontal

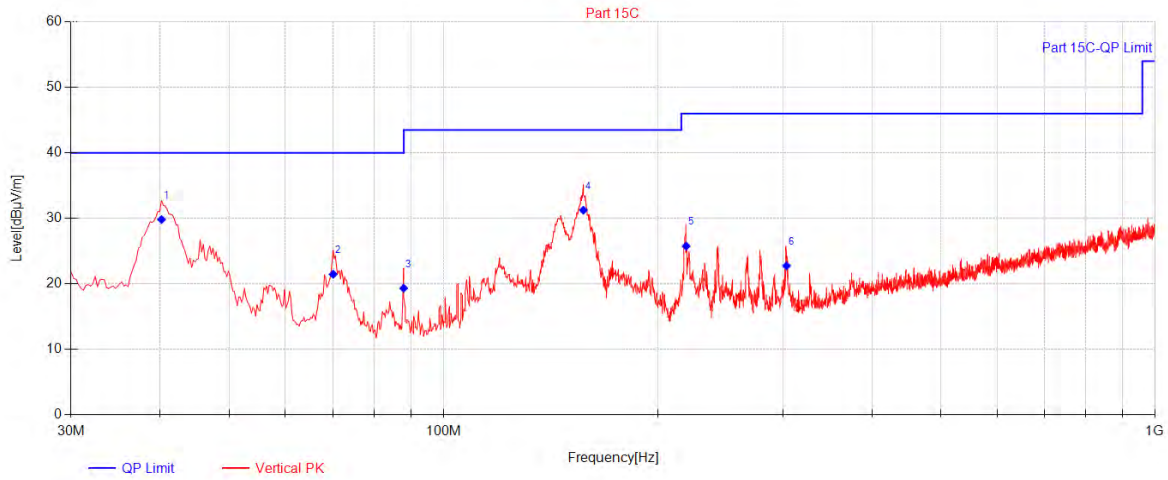


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.185	52.03	-36.27	14.05	29.82	40.00	10.18	135	204	Vertical
2	70.0125	47.15	-36.52	10.82	21.45	40.00	18.55	148	295	Vertical
3	87.9575	46.19	-36.27	9.41	19.33	40.00	20.67	159	311	Vertical
4	157.3125	52.48	-35.30	14.06	31.24	43.50	12.26	196	180	Vertical
5	219.3925	50.09	-34.89	10.55	25.75	46.00	20.25	172	257	Vertical
6	303.54	44.17	-34.30	12.87	22.74	46.00	23.26	211	334	Vertical



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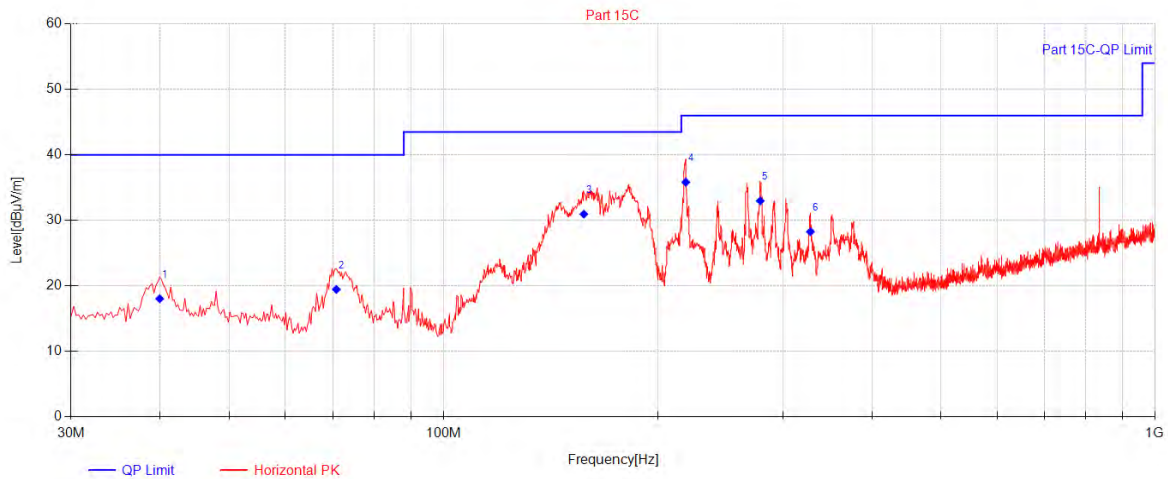
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For Sample #2:

Worst case Mode: BLE 1M _ Channel 39



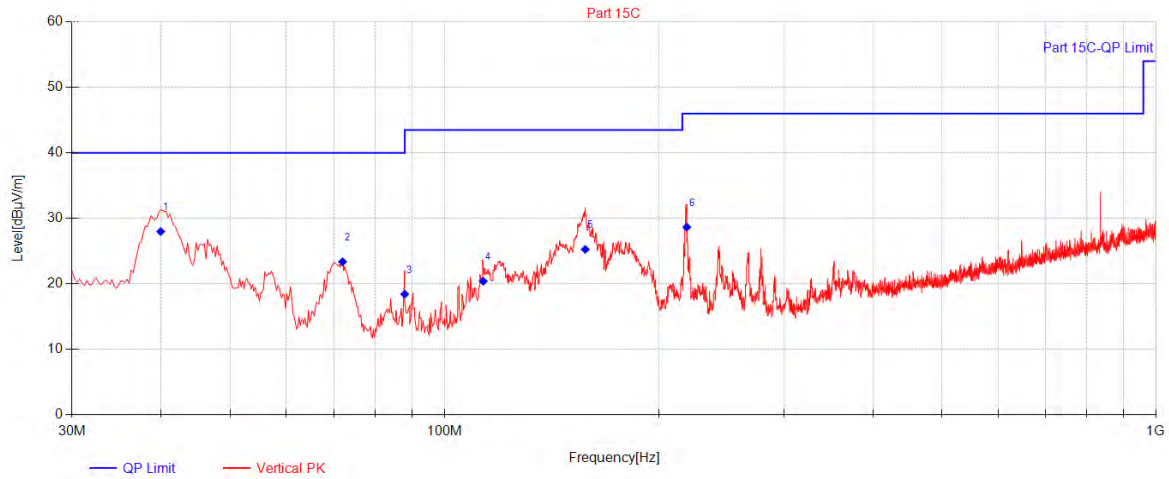
Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.9425	40.23	-36.27	14.06	18.02	40.00	21.98	125	133	Horizontal
2	70.74	45.19	-36.45	10.71	19.44	40.00	20.56	236	11	Horizontal
3	157.555	52.19	-35.30	14.06	30.95	43.50	12.55	258	149	Horizontal
4	219.15	60.18	-34.89	10.54	35.83	46.00	10.17	188	264	Horizontal
5	278.805	55.18	-34.49	12.28	32.97	46.00	13.03	175	327	Horizontal
6	328.0325	49.28	-34.40	13.38	28.26	46.00	17.74	191	350	Horizontal



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Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.9425	50.19	-36.27	14.06	27.98	40.00	12.02	269	203	Vertical
2	71.9525	49.17	-36.35	10.52	23.35	40.00	16.65	214	318	Vertical
3	87.9575	45.27	-36.27	9.41	18.41	40.00	21.59	233	164	Vertical
4	113.42	45.03	-36.15	11.51	20.39	43.50	23.11	147	0	Vertical
5	157.7975	46.48	-35.30	14.07	25.25	43.50	18.25	258	203	Vertical
6	219.15	53.00	-34.89	10.54	28.65	46.00	17.35	180	264	Vertical



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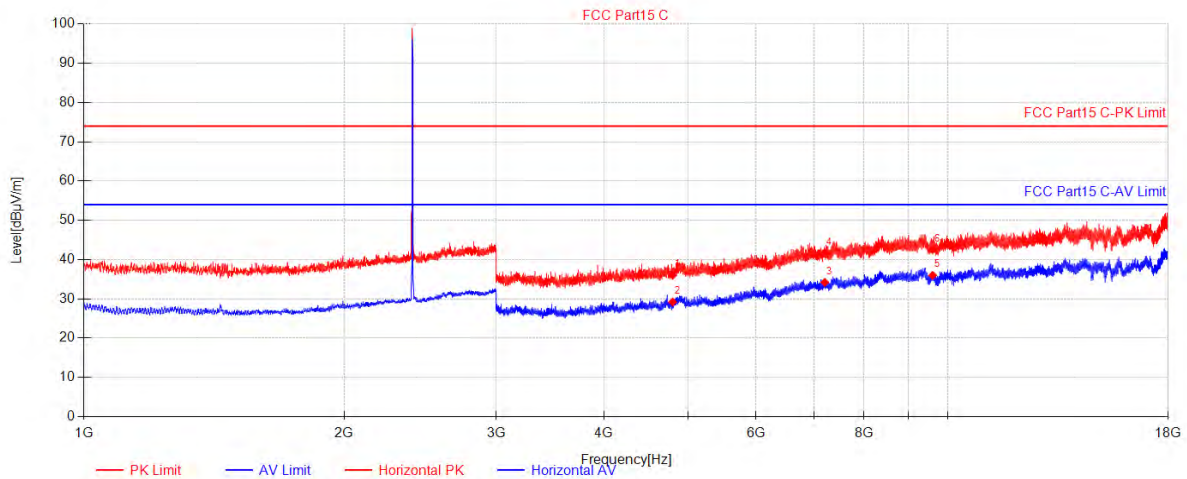
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Transmitter emission Above 1GHz

For Sample #1:

BLE 1M_Channel 00



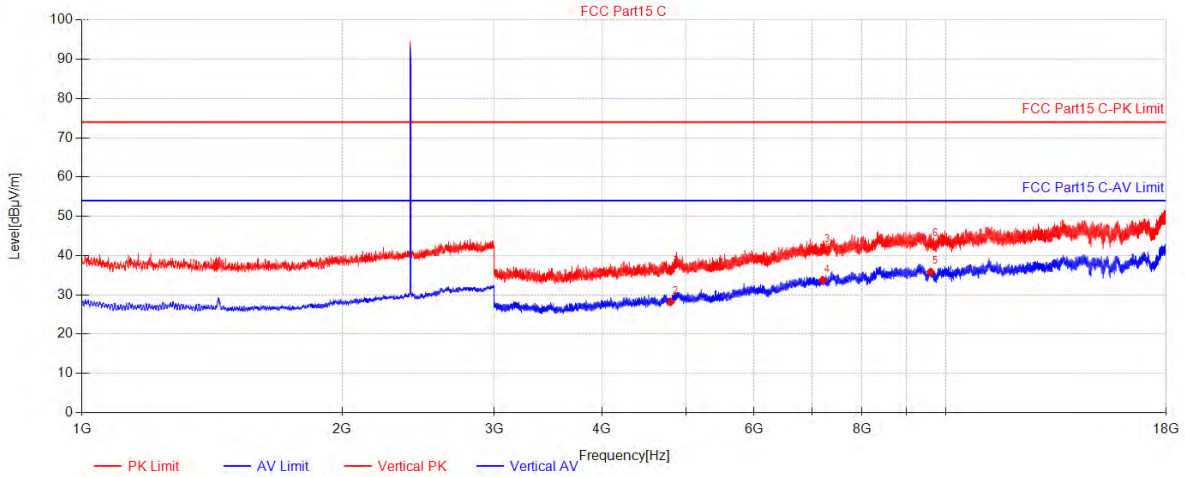
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	49.22	32.33	-45.54	36.01	74.00	37.99	154	356	Horizontal
2	4804.0000	42.42	32.33	-45.54	29.21	54.00	24.79	149	111	Horizontal
3	7206.0000	41.05	36.60	-43.44	34.21	54.00	19.79	148	279	Horizontal
4	7206.0000	48.54	36.60	-43.44	41.70	74.00	32.30	125	29	Horizontal
5	9608.0000	37.22	38.43	-39.65	36.00	54.00	18.00	261	0	Horizontal
6	9608.0000	43.76	38.43	-39.65	42.54	74.00	31.46	236	332	Horizontal



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BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	49.22	32.33	-45.54	36.01	74.00	37.99	145	223	Vertical
2	4804.0000	41.35	32.33	-45.54	28.14	54.00	25.86	203	222	Vertical
3	7206.0000	48.25	36.60	-43.44	41.41	74.00	32.59	258	155	Vertical
4	7206.0000	40.59	36.60	-43.44	33.75	54.00	20.25	133	84	Vertical
5	9608.0000	37.09	38.43	-39.65	35.87	54.00	18.13	176	85	Vertical
6	9608.0000	44.08	38.43	-39.65	42.86	74.00	31.14	194	306	Vertical

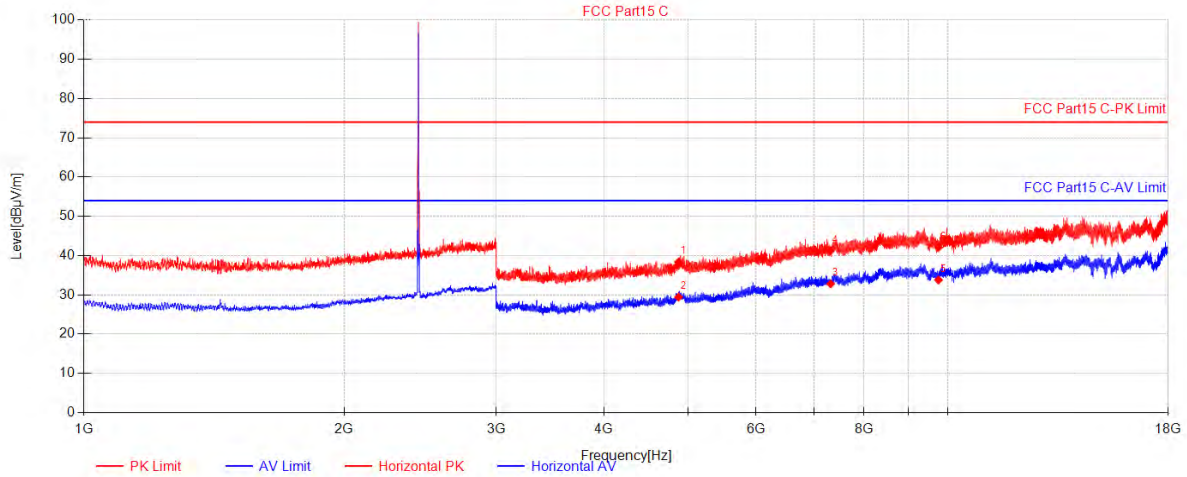


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BLE 1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	51.35	32.54	-45.53	38.36	74.00	35.64	214	279	Horizontal
2	4880.0000	42.42	32.54	-45.53	29.43	54.00	24.57	266	276	Horizontal
3	7320.0000	39.94	36.53	-43.68	32.79	54.00	21.21	233	114	Horizontal
4	7320.0000	48.40	36.53	-43.68	41.25	74.00	32.75	185	168	Horizontal
5	9760.0000	34.99	38.26	-39.46	33.79	54.00	20.21	173	31	Horizontal
6	9760.0000	43.27	38.26	-39.46	42.07	74.00	31.93	145	356	Horizontal

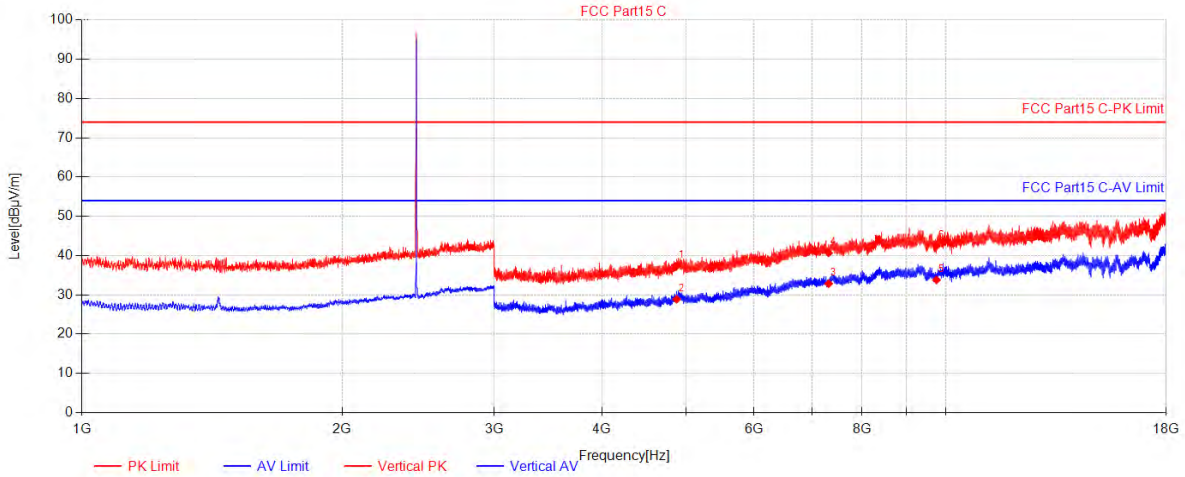


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BLE 1M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	50.30	32.54	-45.53	37.31	74.00	36.69	175	7	Vertical
2	4880.0000	41.88	32.54	-45.53	28.89	54.00	25.11	201	84	Vertical
3	7320.0000	39.99	36.53	-43.68	32.84	54.00	21.16	251	145	Vertical
4	7320.0000	47.87	36.53	-43.68	40.72	74.00	33.28	199	155	Vertical
5	9760.0000	35.00	38.26	-39.46	33.80	54.00	20.20	164	166	Vertical
6	9760.0000	43.67	38.26	-39.46	42.47	74.00	31.53	185	23	Vertical

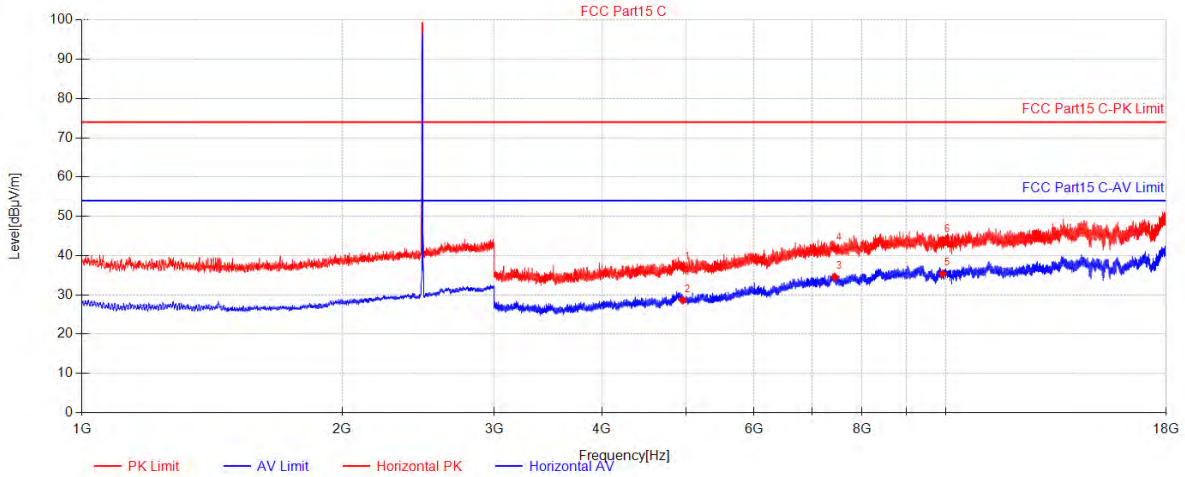


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.83	32.77	-45.60	37.00	74.00	37.00	142	73	Horizontal
2	4960.0000	41.50	32.77	-45.60	28.67	54.00	25.33	192	26	Horizontal
3	7440.0000	41.37	36.47	-43.30	34.54	54.00	19.46	148	5	Horizontal
4	7440.0000	48.65	36.47	-43.30	41.82	74.00	32.18	236	334	Horizontal
5	9920.0000	36.31	38.38	-39.31	35.38	54.00	18.62	155	250	Horizontal
6	9920.0000	44.84	38.38	-39.31	43.91	74.00	30.09	261	152	Horizontal

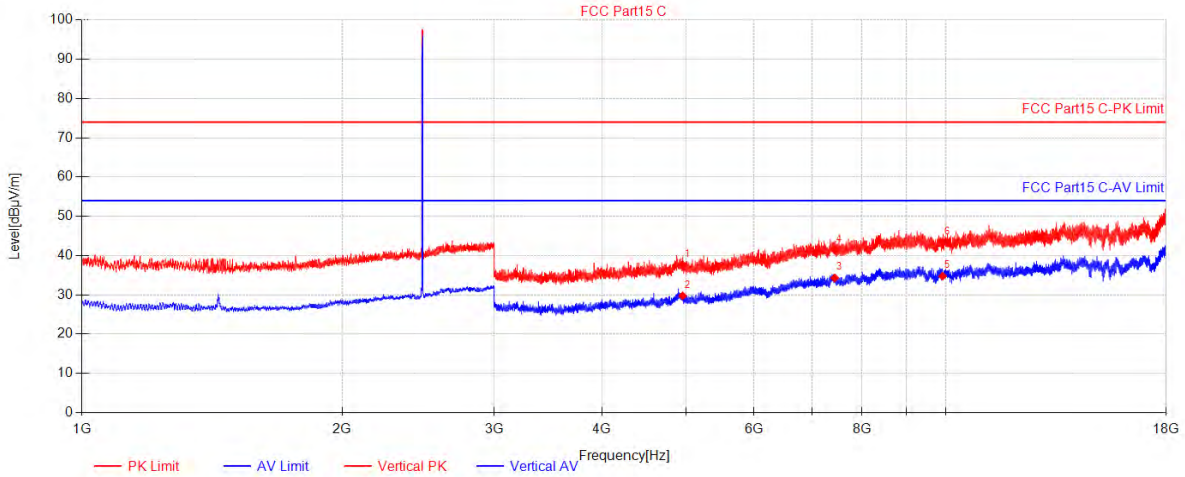


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	50.46	32.77	-45.60	37.63	74.00	36.37	145	220	Vertical
2	4960.0000	42.59	32.77	-45.60	29.76	54.00	24.24	211	83	Vertical
3	7440.0000	41.14	36.47	-43.30	34.31	54.00	19.69	236	26	Vertical
4	7440.0000	48.18	36.47	-43.30	41.35	74.00	32.65	196	122	Vertical
5	9920.0000	35.69	38.38	-39.31	34.76	54.00	19.24	123	279	Vertical
6	9920.0000	44.24	38.38	-39.31	43.31	74.00	30.69	175	26	Vertical

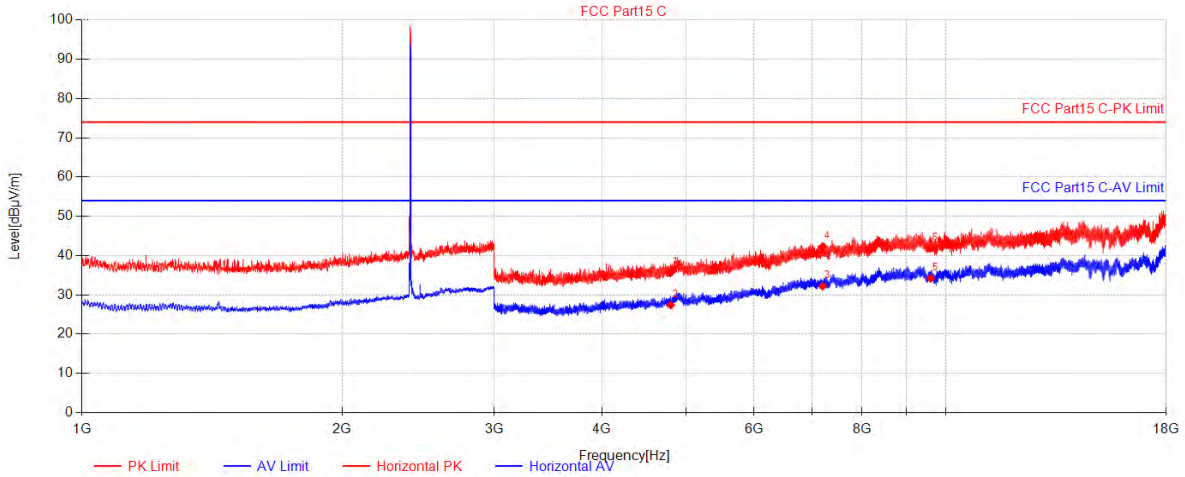


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.90	32.33	-45.54	35.69	74.00	38.31	254	166	Horizontal
2	4804.0000	40.61	32.33	-45.54	27.40	54.00	26.60	195	29	Horizontal
3	7206.0000	39.05	36.60	-43.44	32.21	54.00	21.79	142	195	Horizontal
4	7206.0000	49.17	36.60	-43.44	42.33	74.00	31.67	155	221	Horizontal
5	9608.0000	35.41	38.43	-39.65	34.19	54.00	19.81	266	1	Horizontal
6	9608.0000	43.01	38.43	-39.65	41.79	74.00	32.21	236	166	Horizontal

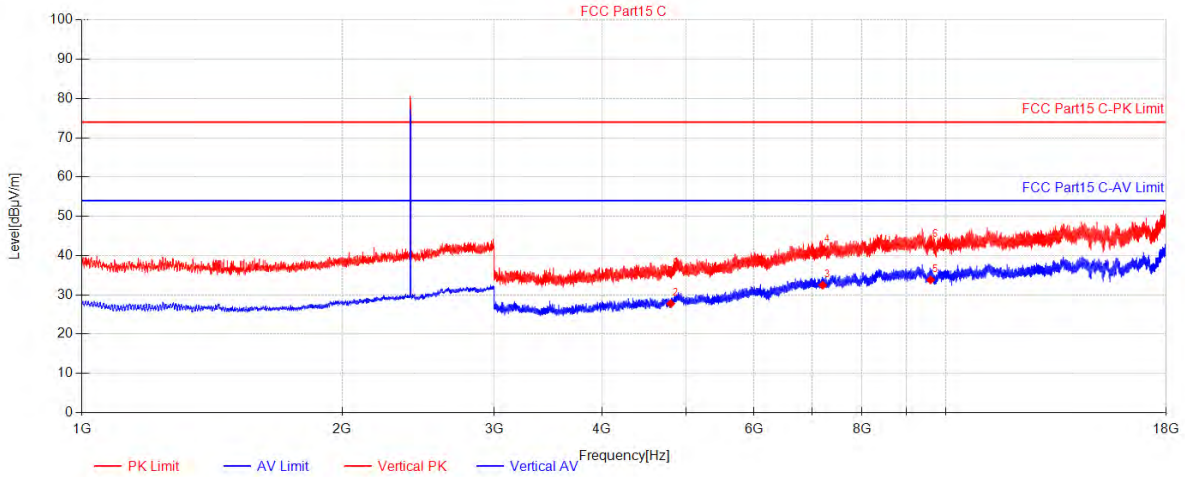


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.63	32.33	-45.54	35.42	74.00	38.58	178	1	Vertical
2	4804.0000	40.97	32.33	-45.54	27.76	54.00	26.24	233	275	Vertical
3	7206.0000	39.29	36.60	-43.44	32.45	54.00	21.55	143	1	Vertical
4	7206.0000	48.36	36.60	-43.44	41.52	74.00	32.48	194	356	Vertical
5	9608.0000	35.03	38.43	-39.65	33.81	54.00	20.19	152	109	Vertical
6	9608.0000	43.96	38.43	-39.65	42.74	74.00	31.26	168	8	Vertical

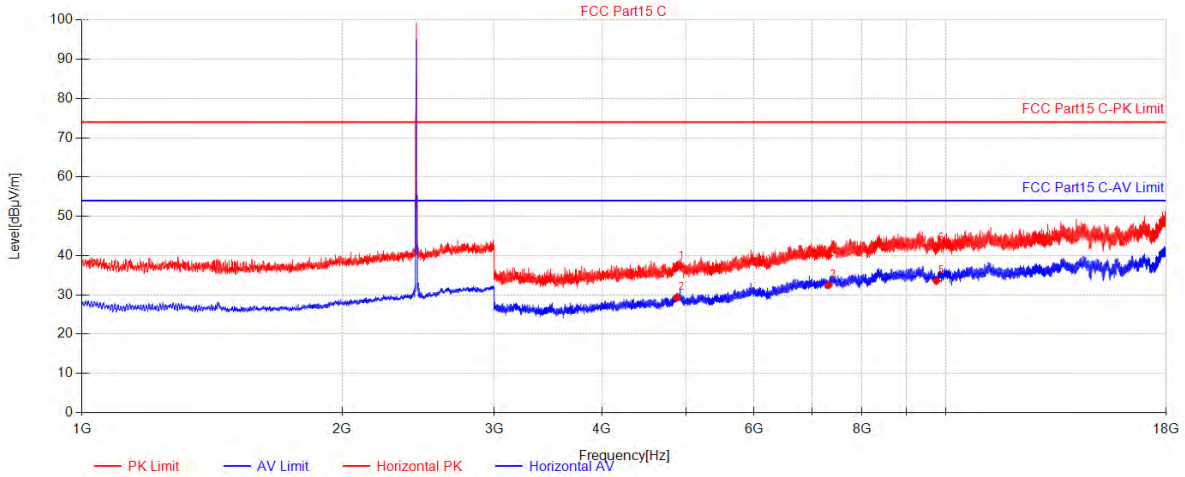


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BLE 2M_Channel 19



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	50.07	32.54	-45.53	37.08	74.00	36.92	122	224	Horizontal
2	4880.0000	42.30	32.54	-45.53	29.31	54.00	24.69	175	334	Horizontal
3	7320.0000	39.62	36.53	-43.68	32.47	54.00	21.53	198	168	Horizontal
4	7320.0000	47.16	36.53	-43.68	40.01	74.00	33.99	236	122	Horizontal
5	9760.0000	34.77	38.26	-39.46	33.57	54.00	20.43	148	1	Horizontal
6	9760.0000	43.12	38.26	-39.46	41.92	74.00	32.08	261	29	Horizontal

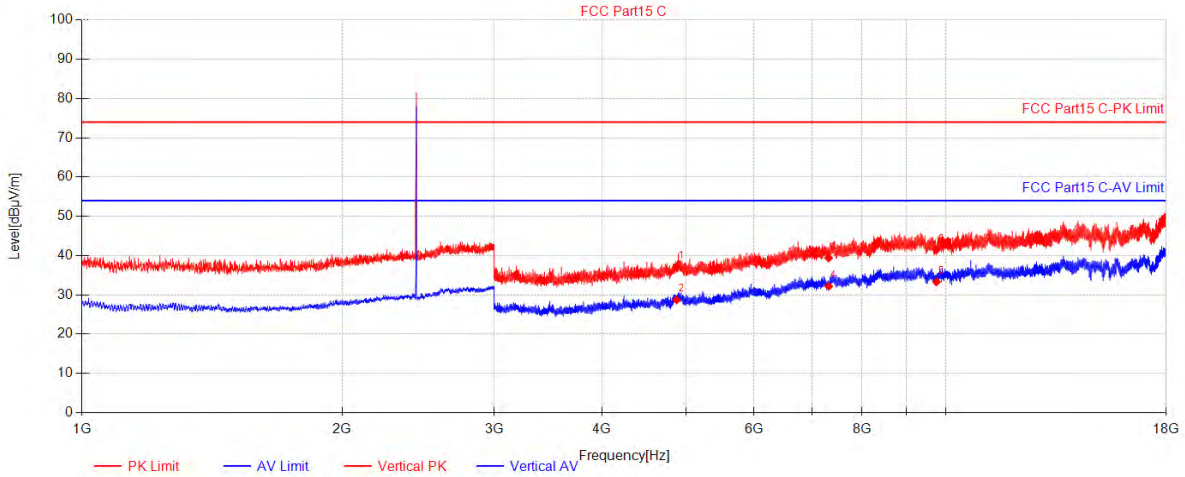


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1	4880.0000	50.16	32.54	-45.53	37.17	74.00	36.83	212	334	Vertical
2	4880.0000	41.71	32.54	-45.53	28.72	54.00	25.28	236	224	Vertical
3	7320.0000	46.54	36.53	-43.68	39.39	74.00	34.61	145	252	Vertical
4	7320.0000	39.34	36.53	-43.68	32.19	54.00	21.81	261	112	Vertical
5	9760.0000	34.49	38.26	-39.46	33.29	54.00	20.71	165	7	Vertical
6	9760.0000	42.66	38.26	-39.46	41.46	74.00	32.54	177	356	Vertical

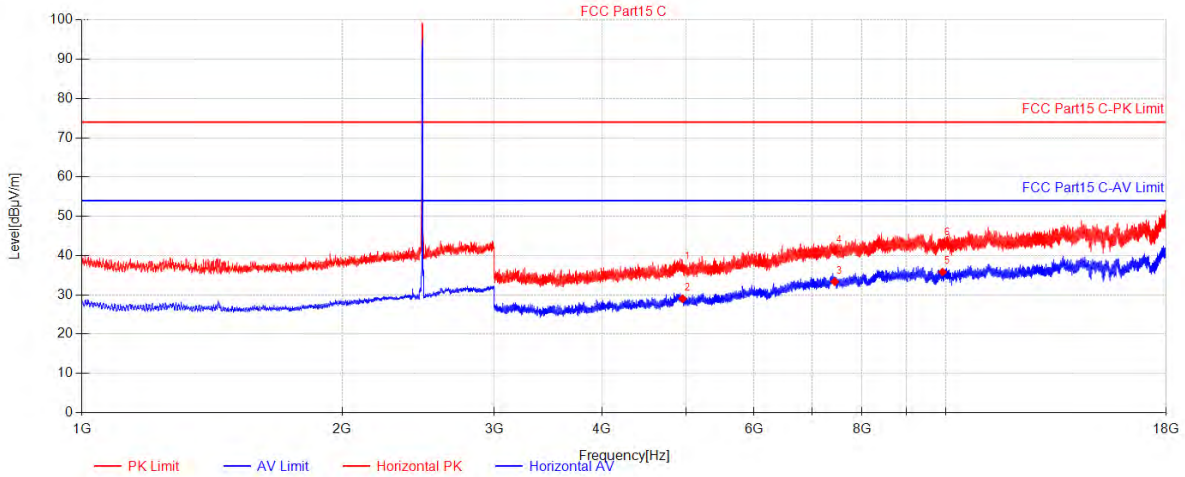


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.76	32.77	-45.60	36.93	74.00	37.07	215	50	Horizontal
2	4960.0000	41.84	32.77	-45.60	29.01	54.00	24.99	166	79	Horizontal
3	7440.0000	40.17	36.47	-43.30	33.34	54.00	20.66	175	110	Horizontal
4	7440.0000	47.99	36.47	-43.30	41.16	74.00	32.84	236	334	Horizontal
5	9920.0000	36.74	38.38	-39.31	35.81	54.00	18.19	148	279	Horizontal
6	9920.0000	44.16	38.38	-39.31	43.23	74.00	30.77	261	1	Horizontal

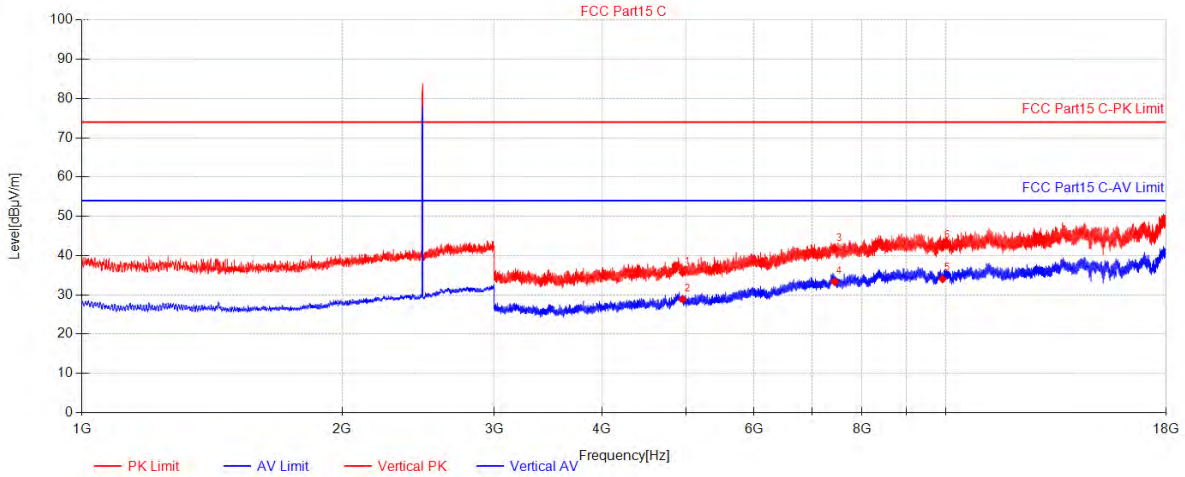


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	48.50	32.77	-45.60	35.67	74.00	38.33	233	357	Vertical
2	4960.0000	41.71	32.77	-45.60	28.88	54.00	25.12	176	2	Vertical
3	7440.0000	48.58	36.47	-43.30	41.75	74.00	32.25	251	208	Vertical
4	7440.0000	40.16	36.47	-43.30	33.33	54.00	20.67	145	123	Vertical
5	9920.0000	34.99	38.38	-39.31	34.06	54.00	19.94	198	237	Vertical
6	9920.0000	43.33	38.38	-39.31	42.40	74.00	31.60	146	68	Vertical



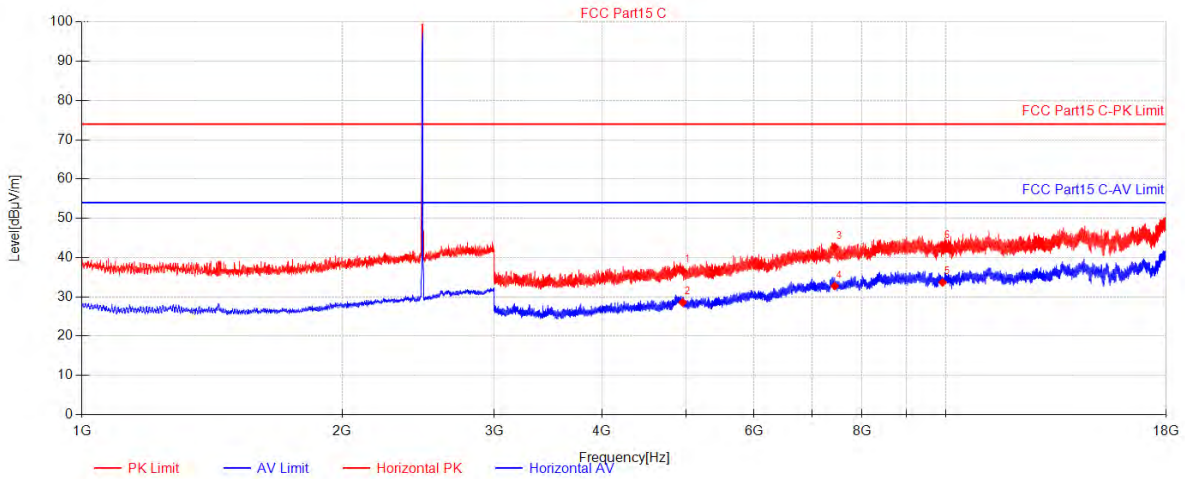
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For Sample #2:

BLE 1M_Channel 39



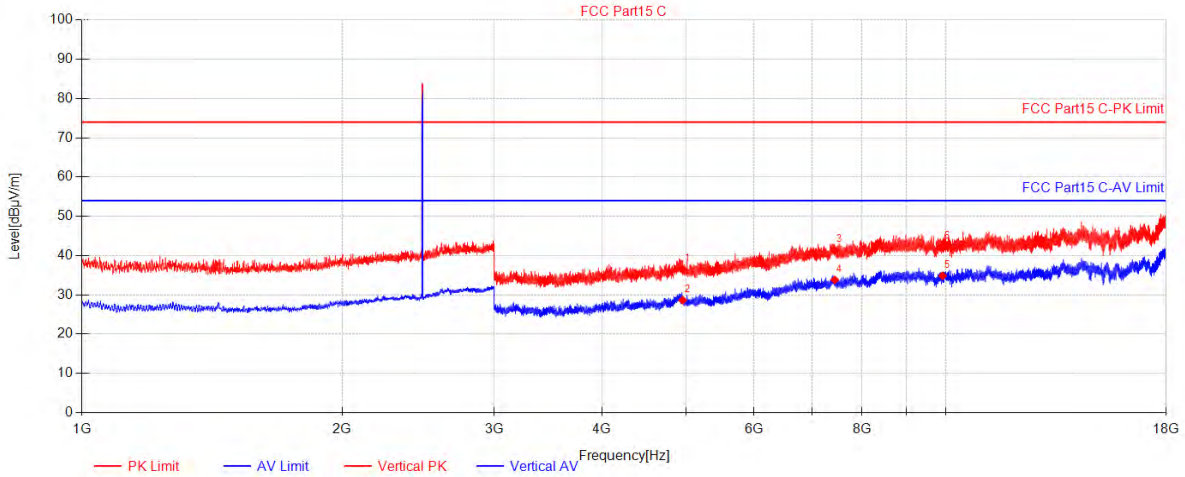
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.48	32.77	-45.60	36.65	74.00	37.35	184	83	Horizontal
2	4960.0000	41.41	32.77	-45.60	28.58	54.00	25.42	201	306	Horizontal
3	7440.0000	49.53	36.47	-43.30	42.70	74.00	31.30	265	125	Horizontal
4	7440.0000	39.57	36.47	-43.30	32.74	54.00	21.26	178	222	Horizontal
5	9920.0000	34.59	38.38	-39.31	33.66	54.00	20.34	291	168	Horizontal
6	9920.0000	43.88	38.38	-39.31	42.95	74.00	31.05	143	233	Horizontal



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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.26	32.77	-45.60	36.43	74.00	37.57	210	111	Vertical
2	4960.0000	41.49	32.77	-45.60	28.66	54.00	25.34	133	7	Vertical
3	7440.0000	48.18	36.47	-43.30	41.35	74.00	32.65	235	83	Vertical
4	7440.0000	40.65	36.47	-43.30	33.82	54.00	20.18	199	1	Vertical
5	9920.0000	35.78	38.38	-39.31	34.85	54.00	19.15	178	111	Vertical
6	9920.0000	43.32	38.38	-39.31	42.39	74.00	31.61	194	306	Vertical

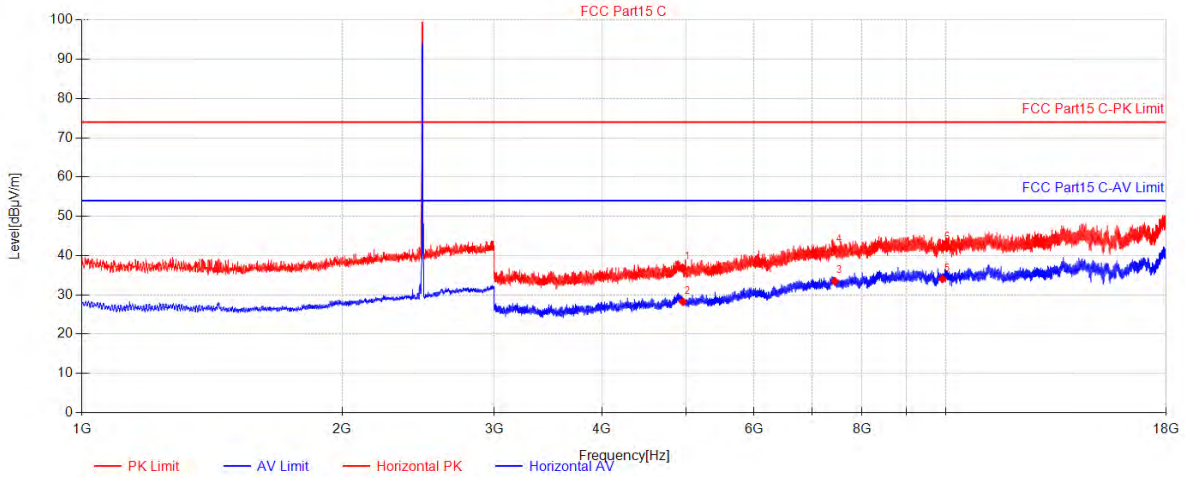


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.71	32.77	-45.60	36.88	74.00	37.12	215	24	Horizontal
2	4960.0000	41.10	32.77	-45.60	28.27	54.00	25.73	199	6	Horizontal
3	7440.0000	40.33	36.47	-43.30	33.50	54.00	20.50	176	6	Horizontal
4	7440.0000	48.37	36.47	-43.30	41.54	74.00	32.46	236	248	Horizontal
5	9920.0000	34.98	38.38	-39.31	34.05	54.00	19.95	148	110	Horizontal
6	9920.0000	43.10	38.38	-39.31	42.17	74.00	31.83	261	305	Horizontal

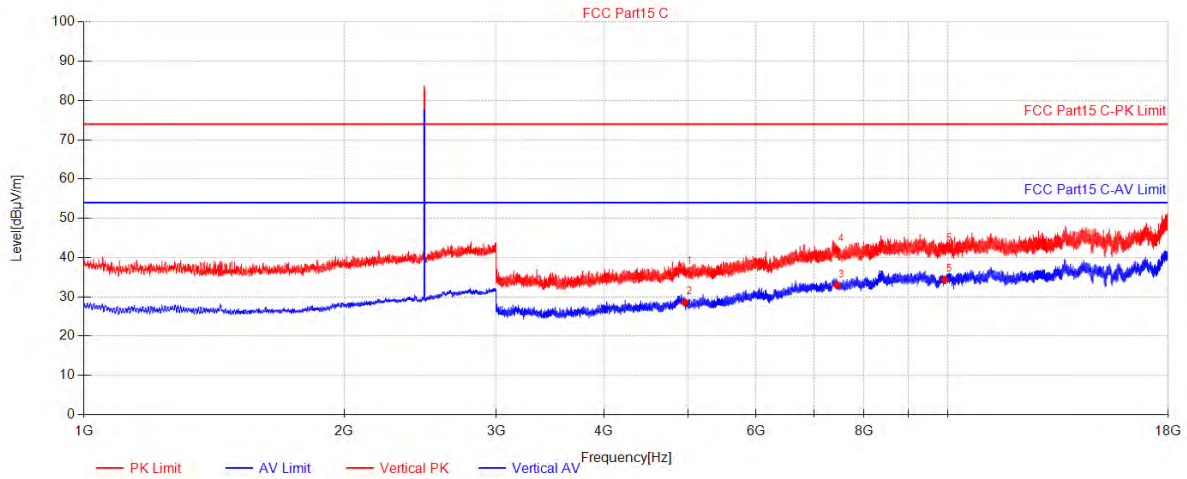


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.14	32.77	-45.60	36.31	74.00	37.69	145	193	Vertical
2	4960.0000	41.39	32.77	-45.60	28.56	54.00	25.44	133	278	Vertical
3	7440.0000	39.79	36.47	-43.30	32.96	54.00	21.04	197	7	Vertical
4	7440.0000	48.80	36.47	-43.30	41.97	74.00	32.03	251	122	Vertical
5	9920.0000	35.32	38.38	-39.31	34.39	54.00	19.61	148	221	Vertical
6	9920.0000	43.30	38.38	-39.31	42.37	74.00	31.63	265	193	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

$$\text{Level} = \text{Reading Level (dB}\mu\text{V)} + \text{AF (dB/m)} + \text{Factor (dB)}$$

$$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier gain (dB)}$$

$$\text{AF} = \text{Antenna Factor (dB/m)}$$

$$\text{Margin} = \text{Limit (dB}\mu\text{V/m)} - \text{Level (dB}\mu\text{V/m)}$$



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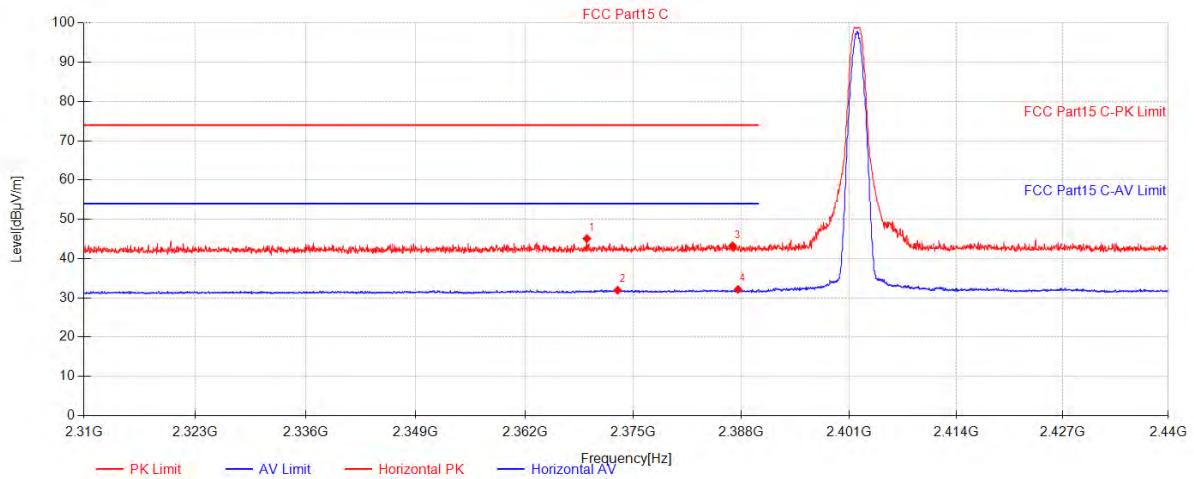
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Restricted bands around fundamental frequency

For Sample #1:

BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2369.41	41.24	27.42	-23.57	45.09	74.00	28.91	255	239	Horizontal
2	2373.0933	28.09	27.43	-23.57	31.94	54.00	22.06	255	239	Horizontal
3	2386.9167	39.39	27.43	-23.57	43.25	74.00	30.75	255	239	Horizontal
4	2387.5667	28.29	27.43	-23.57	32.15	54.00	21.85	255	239	Horizontal



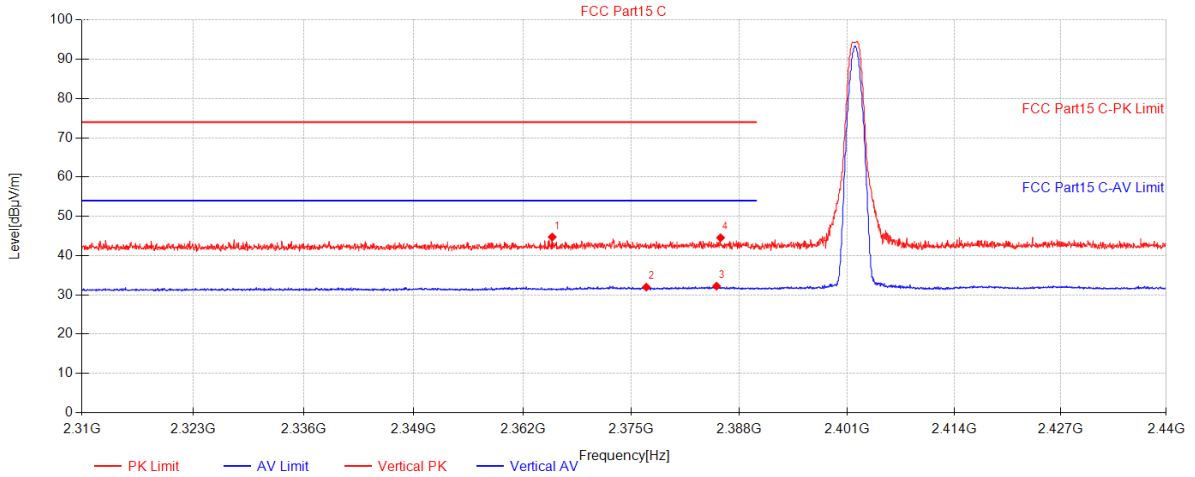
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BLE 1M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.51	40.88	27.42	-23.57	44.73	74.00	29.27	236	198	Vertical
2	2376.7767	28.11	27.43	-23.57	31.97	54.00	22.03	236	198	Vertical
3	2385.2267	28.37	27.43	-23.57	32.23	54.00	21.77	236	198	Vertical
4	2385.7033	40.68	27.43	-23.57	44.54	74.00	29.46	236	198	Vertical

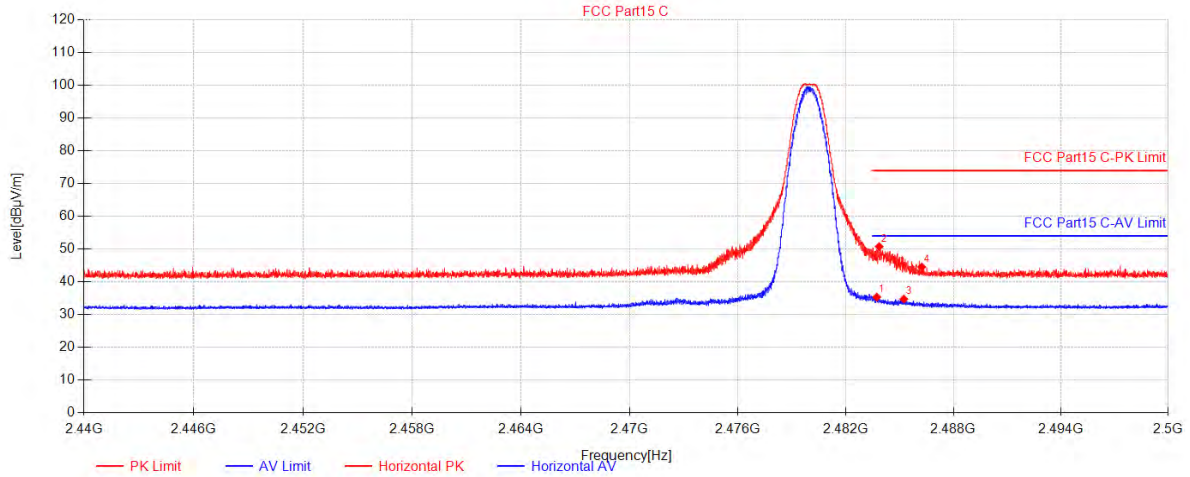


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7325	31.15	27.72	-23.54	35.32	54.00	18.68	111	312	Horizontal
2	2483.8675	46.61	27.72	-23.54	50.78	74.00	23.22	111	312	Horizontal
3	2485.24	30.54	27.72	-23.54	34.72	54.00	19.28	111	312	Horizontal
4	2486.2375	40.34	27.72	-23.54	44.52	74.00	29.48	111	312	Horizontal

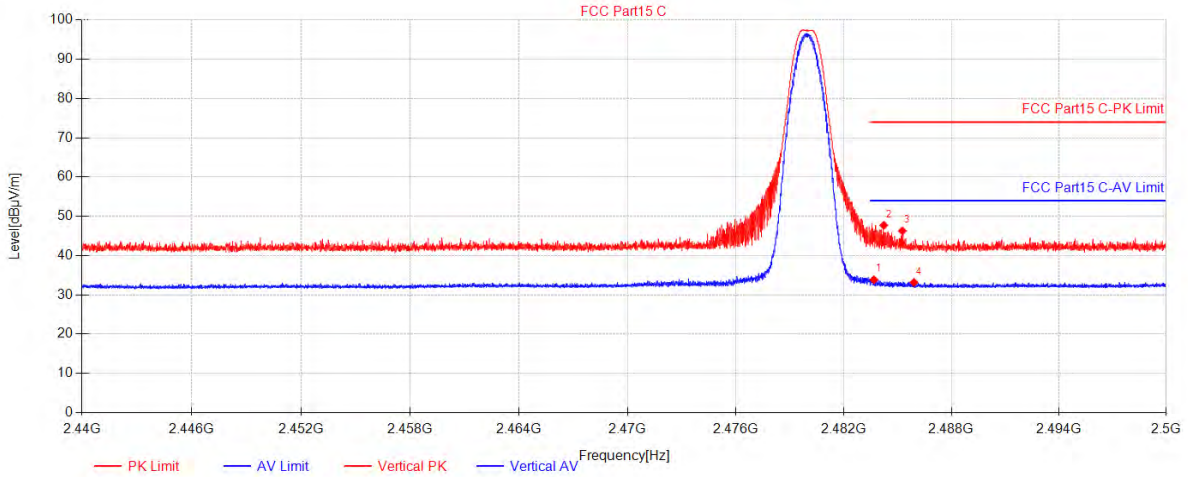


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6875	29.68	27.72	-23.54	33.85	54.00	20.15	214	261	Vertical
2	2484.235	43.55	27.72	-23.54	47.72	74.00	26.28	214	261	Vertical
3	2485.27	42.11	27.72	-23.54	46.29	74.00	27.71	214	261	Vertical
4	2485.915	29.00	27.72	-23.54	33.18	54.00	20.82	214	261	Vertical

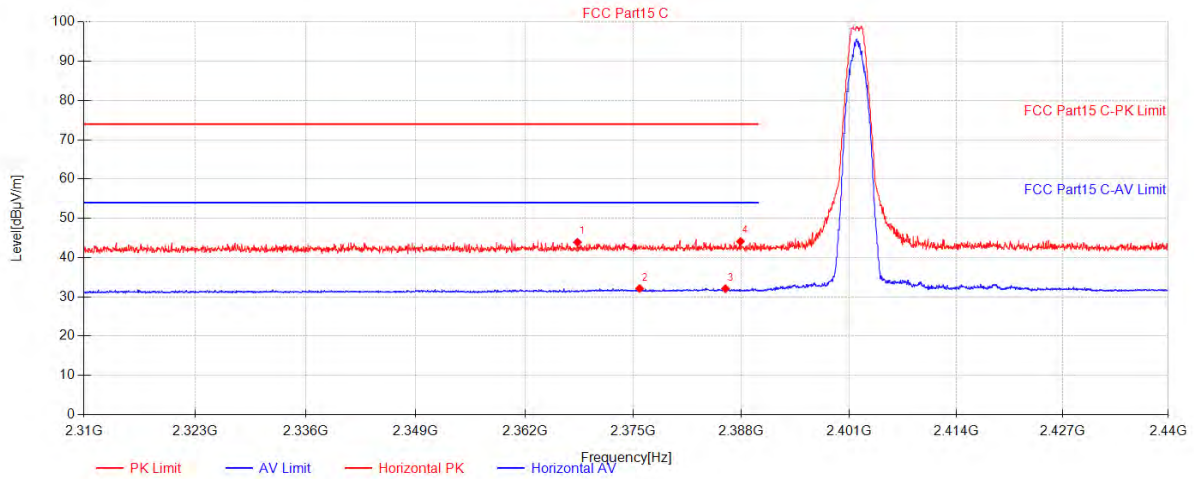


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.2833	40.05	27.42	-23.57	43.90	74.00	30.10	199	125	Horizontal
2	2375.7367	28.26	27.43	-23.57	32.12	54.00	21.88	199	125	Horizontal
3	2386.05	28.21	27.43	-23.57	32.07	54.00	21.93	199	125	Horizontal
4	2387.87	40.25	27.43	-23.57	44.11	74.00	29.89	199	125	Horizontal

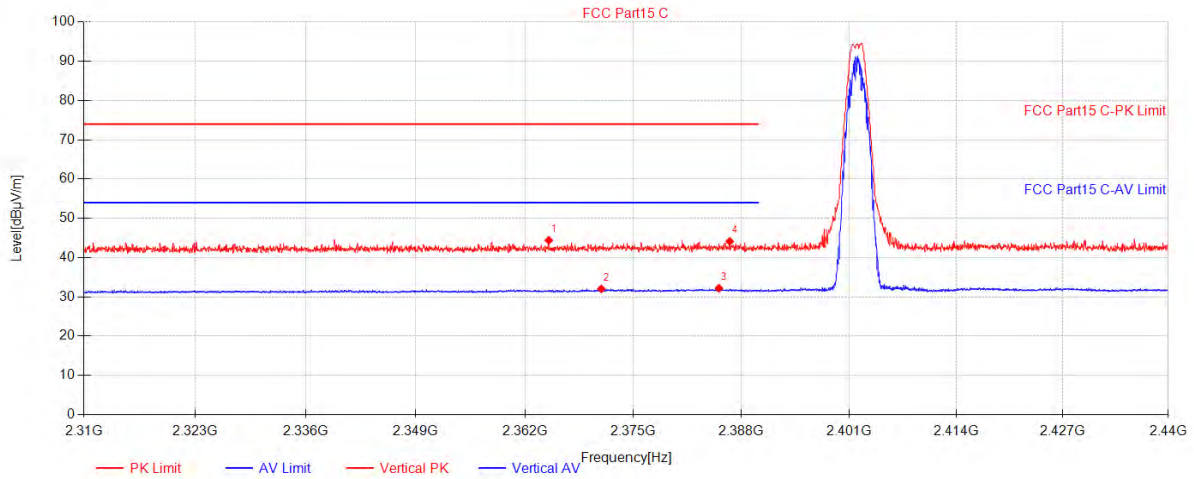


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BLE 2M_Channel 00



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2364.86	40.55	27.42	-23.57	44.40	74.00	29.60	133	152	Vertical
2	2371.1433	28.18	27.43	-23.57	32.03	54.00	21.97	133	152	Vertical
3	2385.27	28.33	27.43	-23.57	32.19	54.00	21.81	133	152	Vertical
4	2386.57	40.27	27.43	-23.57	44.13	74.00	29.87	133	152	Vertical

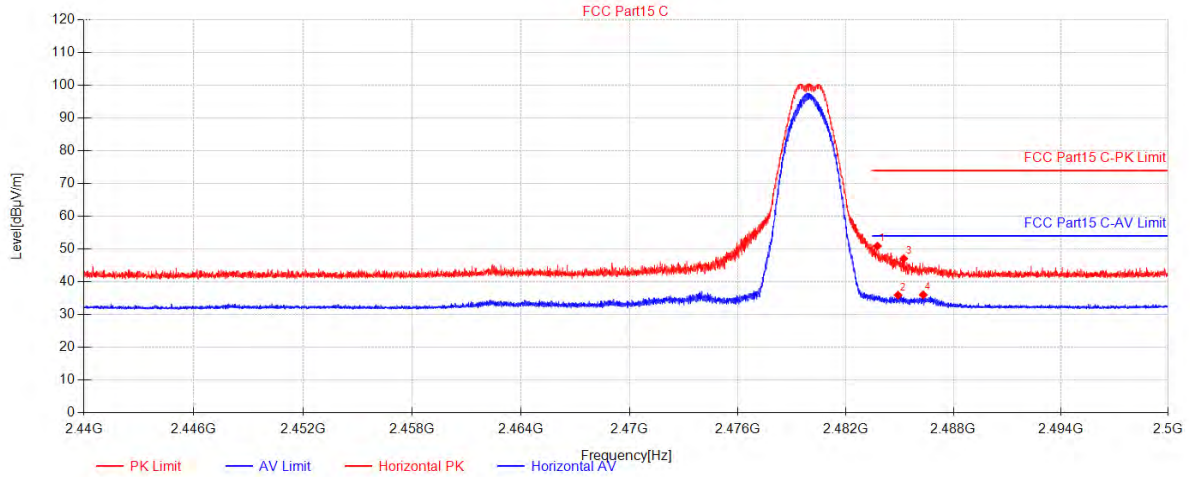


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.77	46.75	27.72	-23.54	50.92	74.00	23.08	155	325	Horizontal
2	2484.9175	31.75	27.72	-23.54	35.93	54.00	18.07	155	325	Horizontal
3	2485.2325	42.90	27.72	-23.54	47.08	74.00	26.92	155	325	Horizontal
4	2486.32	31.82	27.72	-23.54	36.00	54.00	18.00	155	325	Horizontal

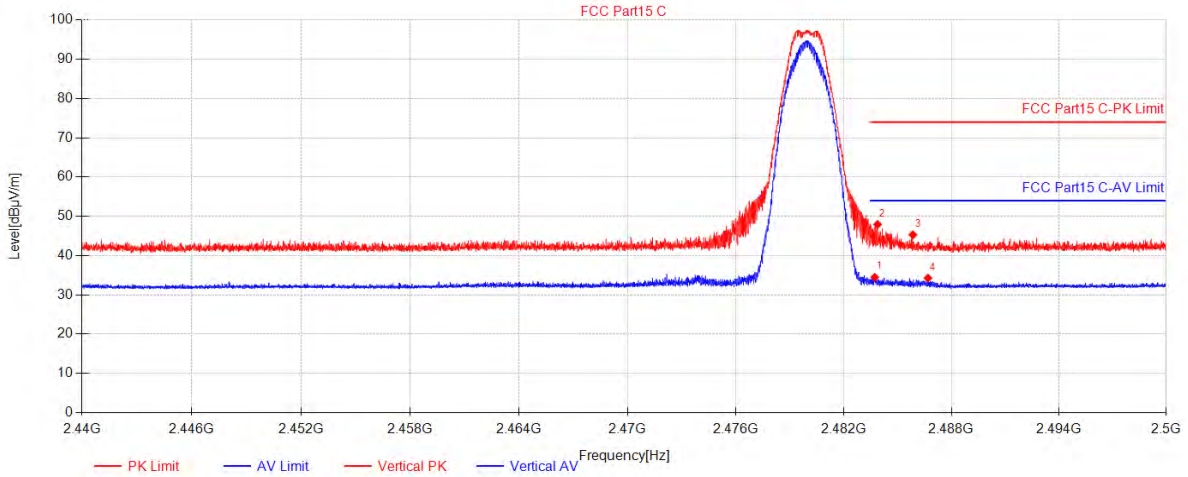


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BLE 2M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.7325	30.32	27.72	-23.54	34.49	54.00	19.51	214	232	Vertical
2	2483.89	43.77	27.72	-23.54	47.94	74.00	26.06	214	232	Vertical
3	2485.855	41.11	27.72	-23.54	45.29	74.00	28.71	214	232	Vertical
4	2486.695	30.09	27.73	-23.54	34.27	54.00	19.73	214	232	Vertical



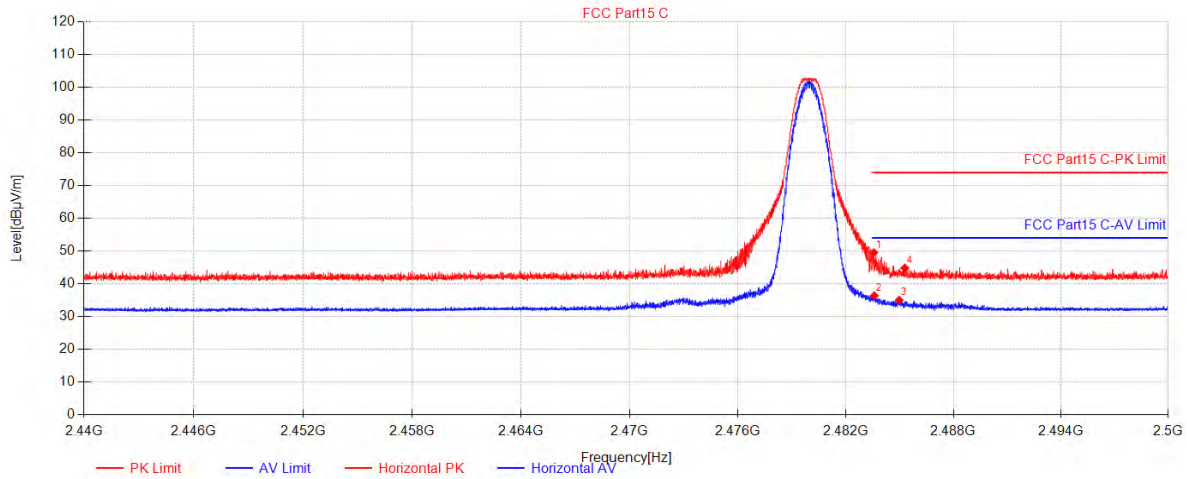
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For Sample #2:

BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.575	45.36	27.72	-23.54	49.53	74.00	24.47	184	310	Horizontal
2	2483.605	32.18	27.72	-23.54	36.35	54.00	17.65	184	310	Horizontal
3	2484.985	30.82	27.72	-23.54	35.00	54.00	19.00	184	310	Horizontal
4	2485.2925	40.65	27.72	-23.54	44.83	74.00	29.17	184	310	Horizontal

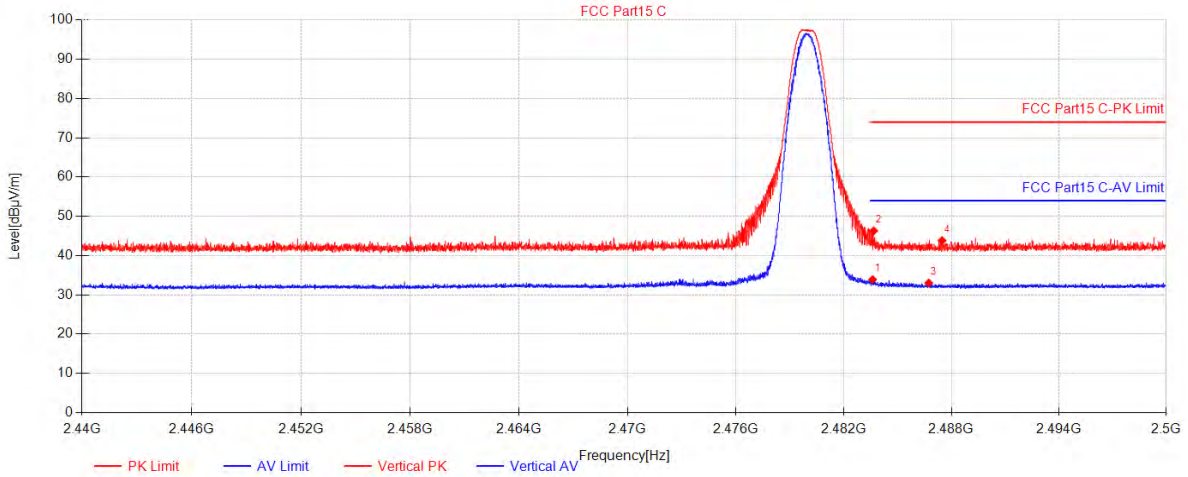


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BLE 1M_Channel 39



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.6125	29.73	27.72	-23.54	33.90	54.00	20.10	155	236	Vertical
2	2483.6725	42.15	27.72	-23.54	46.32	74.00	27.68	155	236	Vertical
3	2486.74	28.86	27.73	-23.54	33.04	54.00	20.96	155	236	Vertical
4	2487.4825	39.66	27.73	-23.54	43.84	74.00	30.16	155	236	Vertical

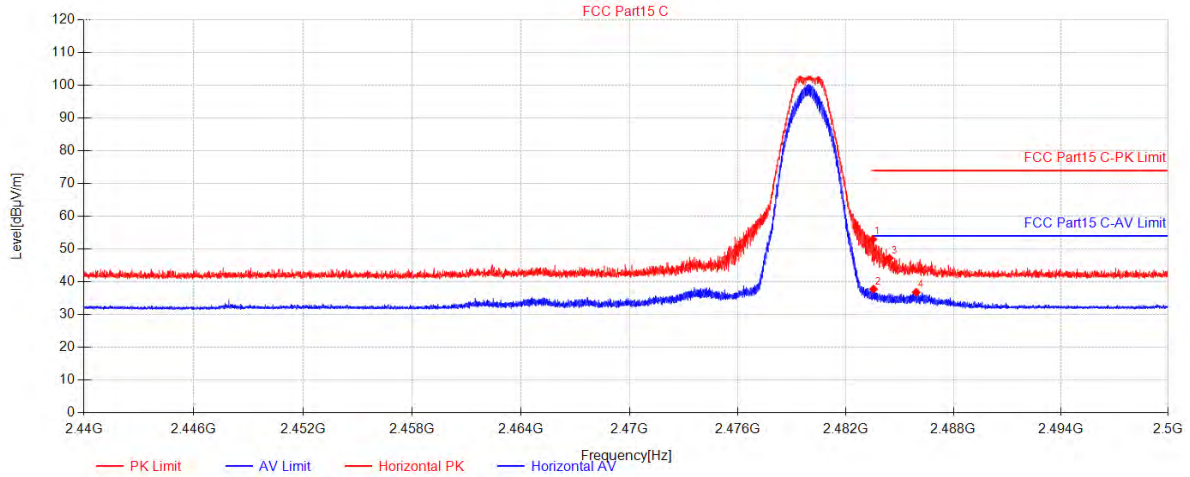


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1	2483.5075	48.80	27.72	-23.54	52.97	74.00	21.03	215	313	Horizontal
2	2483.5525	33.58	27.72	-23.54	37.75	54.00	16.25	215	313	Horizontal
3	2484.4375	43.02	27.72	-23.54	47.19	74.00	26.81	215	313	Horizontal
4	2485.93	32.61	27.72	-23.54	36.79	54.00	17.21	215	313	Horizontal



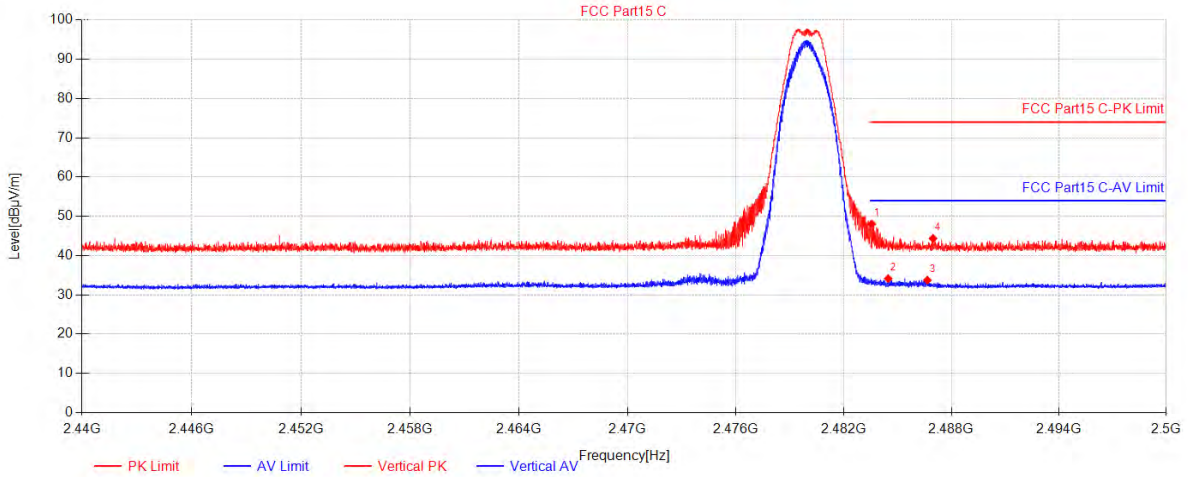
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	43.89	27.72	-23.54	48.06	74.00	25.94	244	232	Vertical
2	2484.4825	29.96	27.72	-23.54	34.13	54.00	19.87	244	232	Vertical
3	2486.665	29.56	27.73	-23.54	33.74	54.00	20.26	244	232	Vertical
4	2486.98	40.19	27.73	-23.54	44.37	74.00	29.63	244	232	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBµV) + AF(dB/m) + Factor(dB):

Factor = Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBµV/m) – Level(dBµV/m)

The End



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