

Report No.: SUHR/2022/1000603

Rev.: 01

Page: 1 of 83



TEST REPORT

Application No.: HR/2022/10006
Applicant: SEUIC Technologies Co., Ltd.
Address of Applicant: NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
Manufacturer: SEUIC Technologies Co., Ltd.
Address of Manufacturer: NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
EUT Description: Portable Data Collection Terminal
Model No.: CRUISE2 5GA
Trade Mark: CRUISE
FCC ID: 2AC68-CRUISE25GA
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/2/7
Date of Test: 2022/2/10 to 2022/2/28
Date of Issue: 2022/3/3

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

Authorized Signature:

Panta Sun
Wireless Laboratory Manager




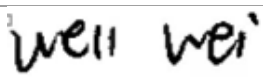
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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022/3/3		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	FCC 47 CFR 15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	FCC 47 CFR 15.207	ANSI C63.10 2013	Clause 4.2	PASS
Conducted Output Power	FCC 47 CFR 15.247 (b)(3)	ANSI C63.10 2013	Clause 4.3	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	FCC 47 CFR 15.247 (a)(2)	ANSI C63.10 2013	Clause 4.4	PASS
Power Spectral Density	FCC 47 CFR 15.247 (e)	ANSI C63.10 2013	Clause 4.5	PASS
Band-edge for RF Conducted Emissions	FCC 47 CFR 15.247(d)	ANSI C63.10 2013	Clause 4.6	PASS
RF Conducted Spurious Emissions	FCC 47 CFR 15.247(d)	ANSI C63.10 2013	Clause 4.7	PASS
Radiated Spurious Emissions	FCC 47 CFR 15.205/15.209	ANSI C63.10 2013	Clause 4.8	PASS
Restricted bands around fundamental frequency (Radiated Emission)	FCC 47 CFR 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:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,China
Manufacturer:	SEUIC Technologies Co., Ltd.
Address of Manufacturer:	NO.15 Xinghuo Road,Nanjing New & High Technology Industry Development Zone,210061,Nanjing City,Jiangsu Province,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, Tizy 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 Data Collection Terminal
Model No.:	CRUISE2 5GA
Trade Mark:	CRUISE
Hardware Version:	MC902A-4A_MB_PCBA_V1.01-A4A
Software Version:	D740_V1.0.76
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
Sample Type:	<input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client
	1dBi(Ant3);
RF Cable*:	<input checked="" type="checkbox"/> Provided by client
	1dB
<p>Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.</p> <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p>	



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

Remark:

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

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



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3.5 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.85
LTNV	-20	3.85
HTNV	50	3.85

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

3.6 Description of Support Units

The EUT has been tested independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

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



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4.2 AC Power Line Conducted Emissions

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



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



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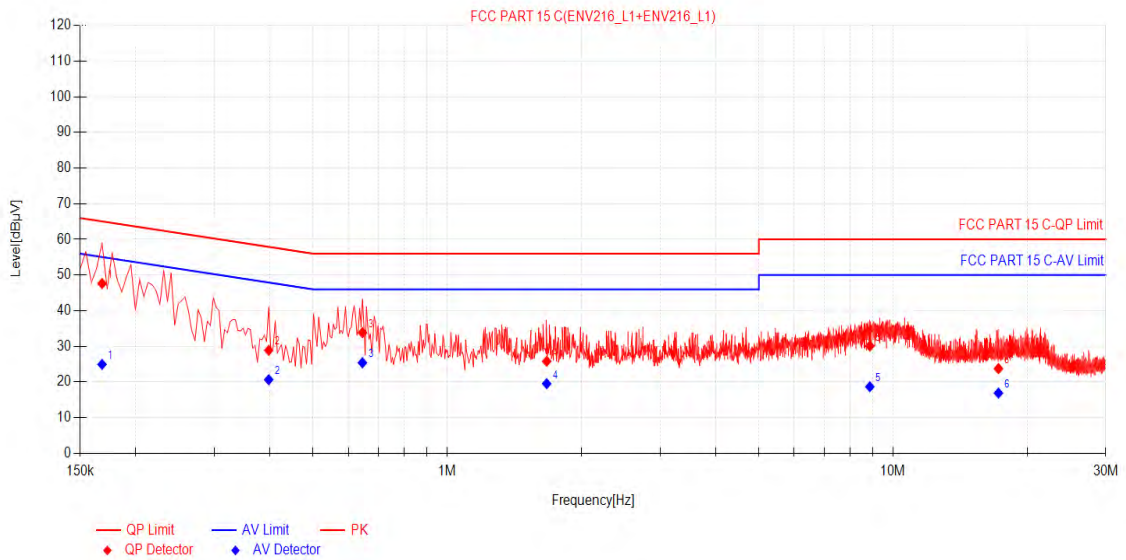
Measurement Data

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.

BLE 1M

Live Line:



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	0.1680	10.71	47.61	65.06	17.45	24.95	55.06	30.11	PASS
2	0.3975	10.50	28.89	57.91	29.02	20.65	47.91	27.26	PASS
3	0.6450	10.54	33.85	56.00	22.15	25.40	46.00	20.60	PASS
4	1.6710	10.75	25.82	56.00	30.18	19.54	46.00	26.46	PASS
5	8.8710	10.66	30.10	60.00	29.90	18.67	50.00	31.33	PASS
6	17.2410	10.47	23.77	60.00	36.23	16.90	50.00	33.10	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor(Lisn factor + cable loss).

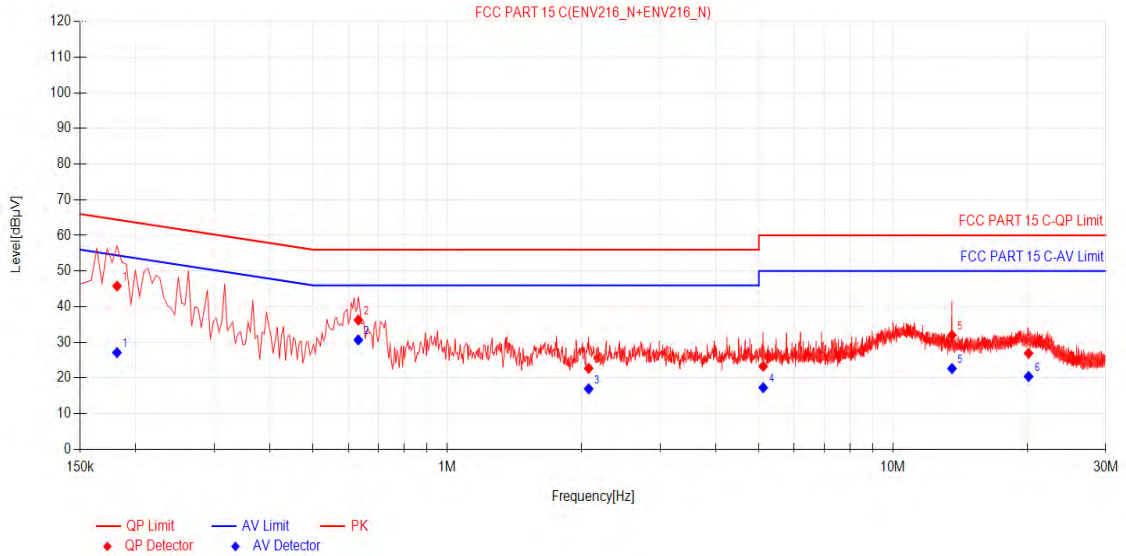


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Neutral Line:



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	0.1815	10.70	45.80	64.42	18.62	27.12	54.42	27.30	PASS
2	0.6315	10.72	36.26	56.00	19.74	30.69	46.00	15.31	PASS
3	2.0760	10.77	22.71	56.00	33.29	16.96	46.00	29.04	PASS
4	5.1135	10.63	23.30	60.00	36.70	17.29	50.00	32.71	PASS
5	13.5600	10.62	31.99	60.00	28.01	22.66	50.00	27.34	PASS
6	20.1435	10.40	26.93	60.00	33.07	20.42	50.00	29.58	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor(Lisn factor + cable loss).



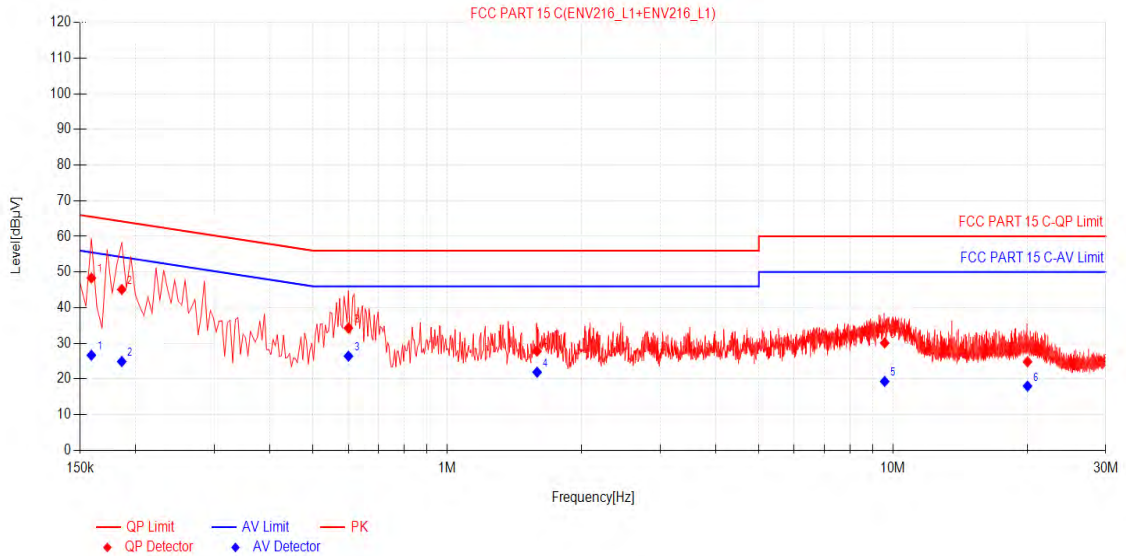
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BLE 2M

Live Line:



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	0.1590	10.67	48.34	65.52	17.18	26.67	55.52	28.85	PASS
2	0.1860	10.77	45.11	64.21	19.10	24.89	54.21	29.32	PASS
3	0.6000	10.50	34.31	56.00	21.69	26.41	46.00	19.59	PASS
4	1.5900	10.76	27.82	56.00	28.18	21.91	46.00	24.09	PASS
5	9.5775	10.64	30.11	60.00	29.89	19.31	50.00	30.69	PASS
6	20.0355	10.42	24.85	60.00	35.15	18.01	50.00	31.99	PASS

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Reading + Factor(Lisn factor + cable loss).

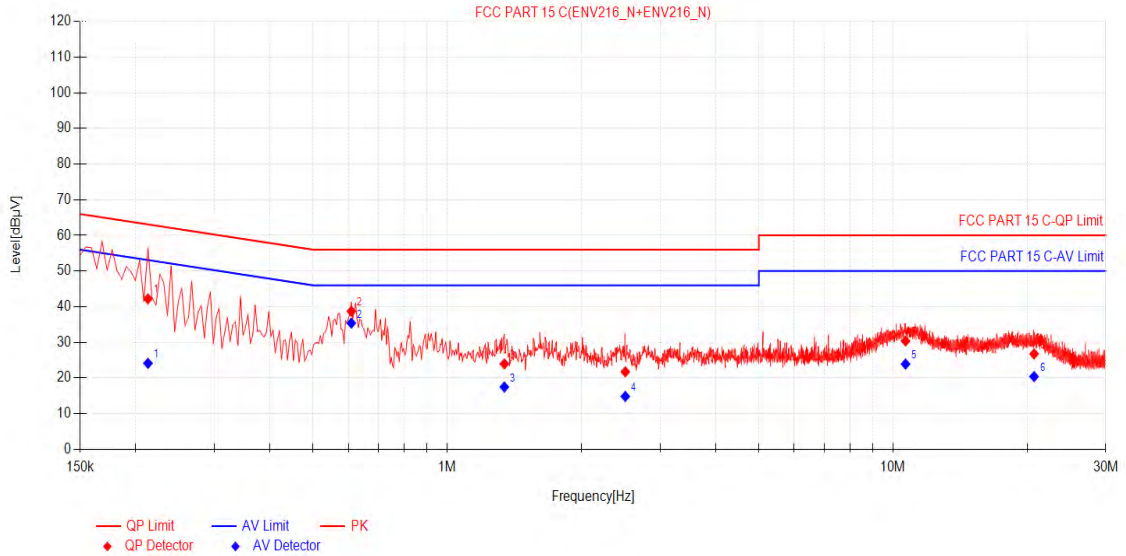


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Neutral Line:



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	0.2130	10.68	42.22	63.09	20.87	24.13	53.09	28.96	PASS
2	0.6090	10.69	38.69	56.00	17.31	35.39	46.00	10.61	PASS
3	1.3425	10.78	23.96	56.00	32.04	17.48	46.00	28.52	PASS
4	2.5080	10.78	21.72	56.00	34.28	14.84	46.00	31.16	PASS
5	10.6665	10.66	30.41	60.00	29.59	23.92	50.00	26.08	PASS
6	20.7240	10.41	26.75	60.00	33.25	20.39	50.00	29.61	PASS

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Final Test Level = Reading + Factor(Lin factor + cable loss).



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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	



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	



4.6 Power Spectral Density

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



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4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



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:

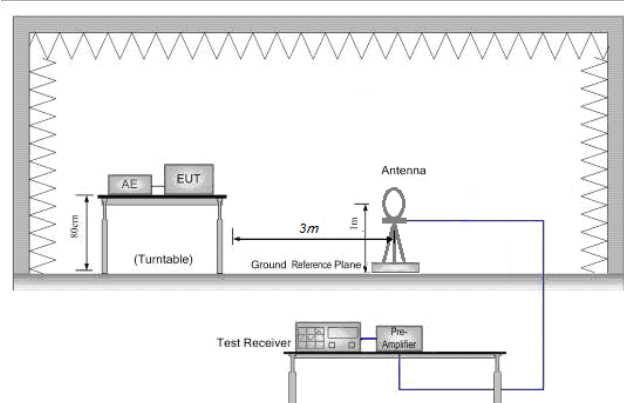


Figure 1. Below 30MHz

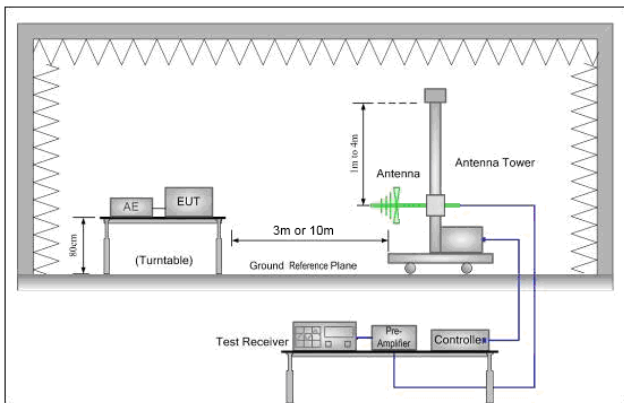


Figure 2. 30MHz to 1GHz



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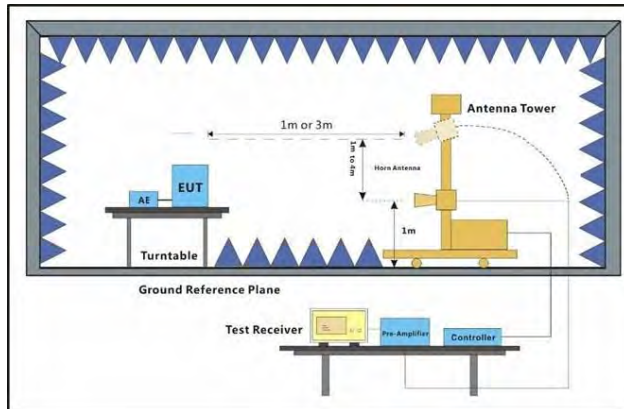


Figure 3. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. 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. j. Repeat above procedures until all frequencies measured was complete. k. 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 l. 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.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak



	<ul style="list-style-type: none"> • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ [3 *RBW] • Detector = RMS (power averaging), if span / (# of points in sweep) ≤ (RBW / 2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak. • Sweep time = auto • Perform a trace average of at least 100 traces. <p>Value = Reading + Factor(Antenna Factor + Cable loss – Preamplifier Factor).</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:

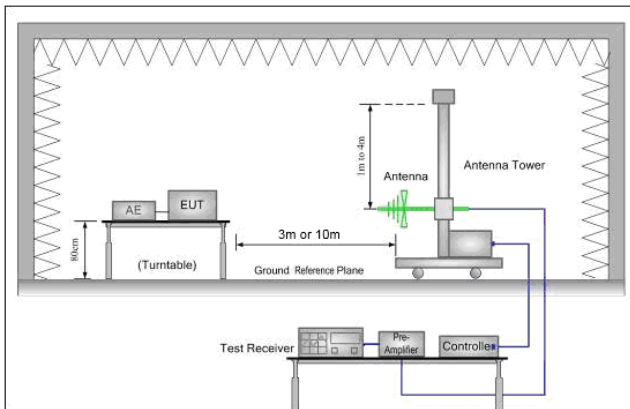


Figure 1. 30MHz to 1GHz

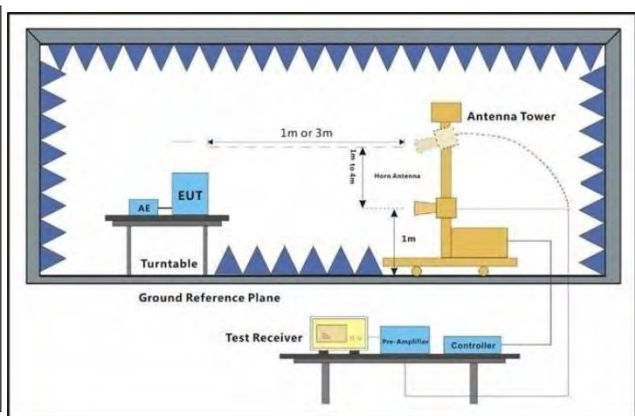


Figure 2. Above 1 GHz

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>Value = Reading + Factor(Antenna Factor + Cable loss).</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	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±7.25 x 10 ⁻⁸
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25 x 10 ⁻⁸
7	Conduction Emission	± 2.9dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9kHz - 30MHz)
		± 4.8dB (30MHz - 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

Tonscend Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal. Due date
				(yyyy-mm-dd)	(yyyy-mm-dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2021/2/20	2022/2/19
				2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Measurement Software	Tonscend	JS1120-3 Test System	SUWI-02-09-09	NCR	NCR
		V 2.6.88.0336			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Power Meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power Sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3

CE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-03-01	2021/5/8	2024/5/7
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2021/2/20	2022/2/19
				2022/2/16	2023/2/15



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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	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2021/2/20	2022/2/19
				2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
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
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2021/2/20	2022/2/19
				2022/2/15	2023/2/14
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2021/2/20	2022/2/19
				2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Measurement Software	Tonscend	JS32-RE V3.0.0.3	SUWI-02-09-04	NCR	NCR



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7 Photographs - 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	Ant3	2402	0.68	2401.67	2402.34	0.5	PASS
		2440	0.68	2439.67	2440.34	0.5	PASS
		2480	0.68	2479.67	2480.34	0.5	PASS
BLE_2M	Ant3	2402	1.16	2401.44	2402.59	0.5	PASS
		2440	1.15	2439.44	2440.59	0.5	PASS
		2480	1.15	2479.44	2480.59	0.5	PASS



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Test Graphs

BLE 1M Ant3 2402



04:03:56 18.02.2022

BLE 1M Ant3 2440



04:07:46 18.02.2022



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BLE_1M_Ant3_2480



04:11:54 18.02.2022

BLE_2M_Ant3_2402



04:38:36 18.02.2022



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BLE 2M Ant3 2440



09:01:19 18.02.2022

BLE 2M Ant3 2480



09:05:09 18.02.2022



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant3	2402	1.017	2401.506	2402.523	---	---
		2440	1.019	2439.506	2440.525	---	---
		2480	1.019	2479.504	2480.524	---	---
BLE_2M	Ant3	2402	2.002	2401.024	2403.026	---	---
		2440	2.004	2439.022	2441.027	---	---
		2480	2.003	2479.018	2481.022	---	---



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Test Graphs

BLE 1M Ant3 2402



04:04:13 18.02.2022

BLE 1M Ant3 2440



04:08:03 18.02.2022



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BLE_1M_Ant3_2480



BLE_2M_Ant3_2402



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BLE_2M_Ant3_2440



BLE_2M_Ant3_2480



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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	Ant3	2402	0.48	≤30	PASS
		2440	-0.42	≤30	PASS
		2480	-0.3	≤30	PASS
BLE_2M	Ant3	2402	0.55	≤30	PASS
		2440	-0.39	≤30	PASS
		2480	-0.25	≤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	Ant3	2402	-14.63	≤8.00	PASS
		2440	-15.73	≤8.00	PASS
		2480	-15.55	≤8.00	PASS
BLE_2M	Ant3	2402	-17.7	≤8.00	PASS
		2440	-18.87	≤8.00	PASS
		2480	-18.65	≤8.00	PASS



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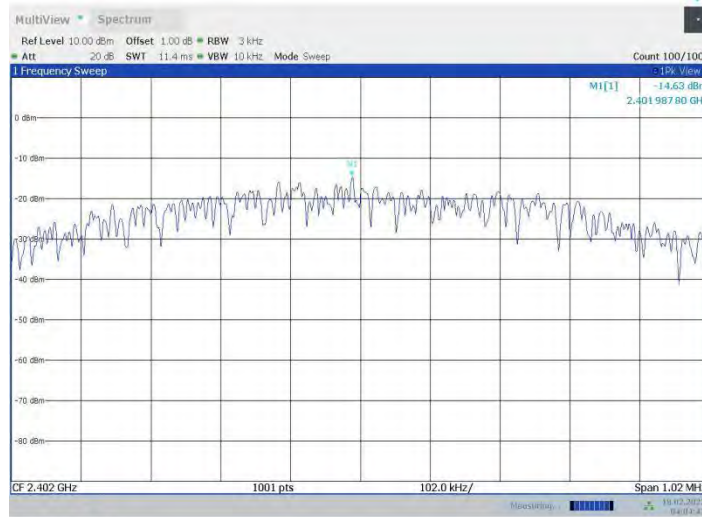
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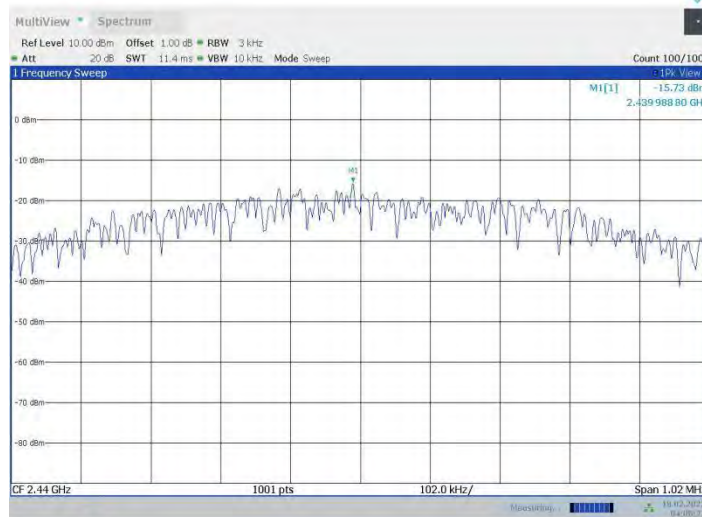
Test Graphs

BLE 1M Ant3 2402



04:04:42 18.02.2022

BLE 1M Ant3 2440



04:08:32 18.02.2022

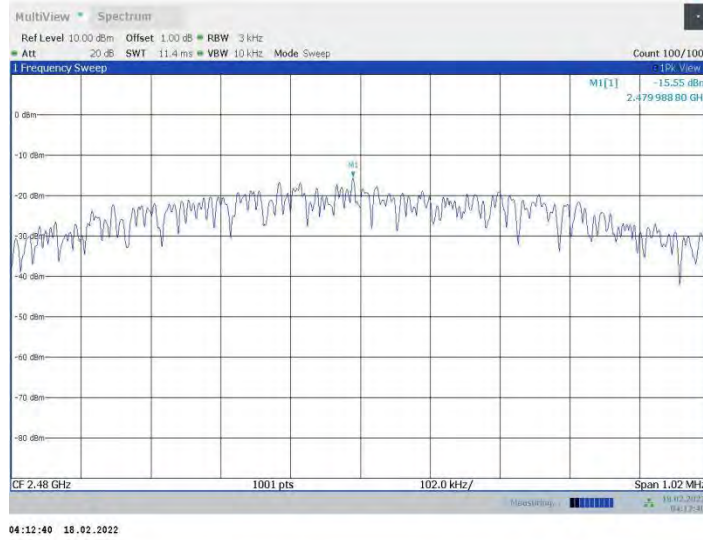


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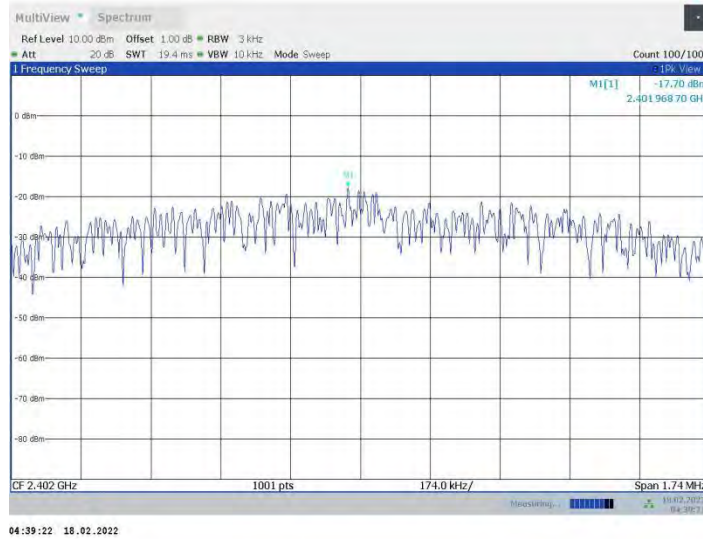
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BLE_1M_Ant3_2480



BLE_2M_Ant3_2402

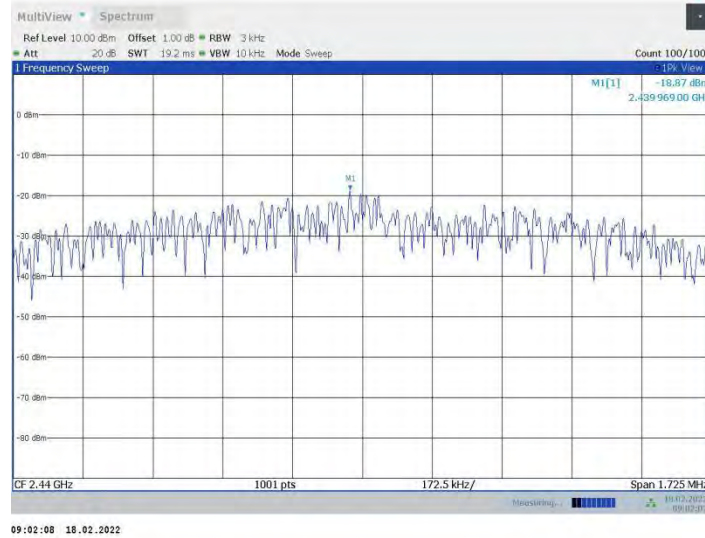


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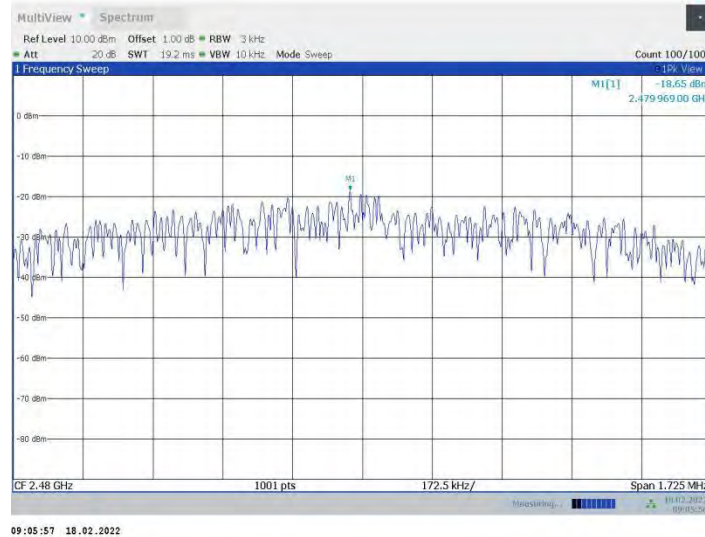
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BLE_2M_Ant3_2440



BLE_2M_Ant3_2480



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Band edge measurements Test Result

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant3	Low	2402	-0.15	-53.99	≤-20.15	PASS
		High	2480	-0.90	-57.1	≤-20.9	PASS
BLE_2M	Ant3	Low	2402	-0.01	-50.94	≤-20.01	PASS
		High	2480	-0.95	-56.88	≤-20.95	PASS



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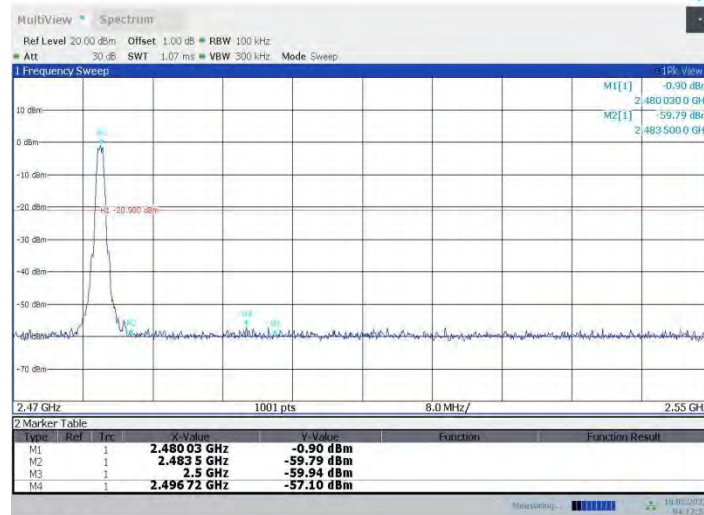
Test Graphs

BLE 1M Ant3 Low 2402



04:04:57 18.02.2022

BLE 1M Ant3 High 2480



04:12:55 18.02.2022



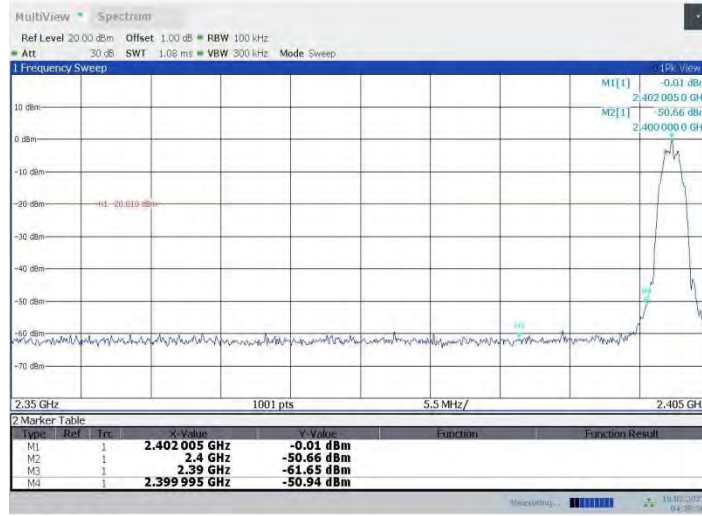
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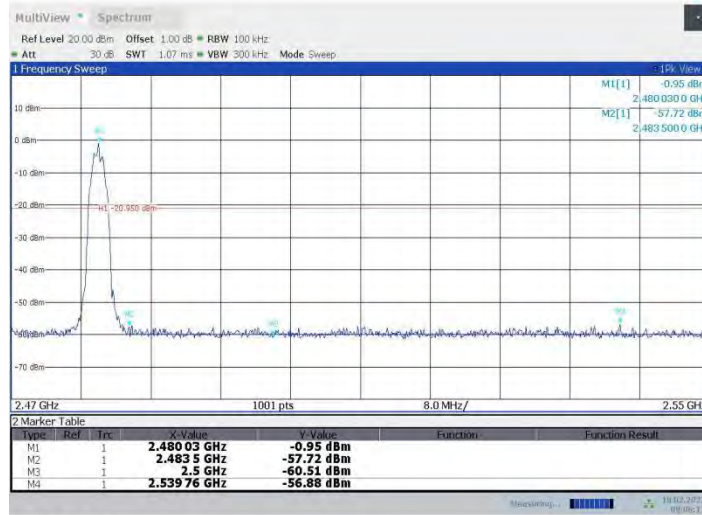
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BLE 2M Ant3 Low 2402



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BLE 2M Ant3 High 2480



09:06:12 18.02.2022



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Conducted Spurious Emission Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant3	2402	Reference	0.04	0.04	---	PASS
			30~1000	0.04	-59.75	≤-19.96	PASS
			1000~26500	0.04	-55.13	≤-19.96	PASS
		2440	Reference	-0.91	-0.91	---	PASS
			30~1000	-0.91	-59.39	≤-20.91	PASS
			1000~26500	-0.91	-54.62	≤-20.91	PASS
		2480	Reference	-0.80	-0.80	---	PASS
			30~1000	-0.80	-59.8	≤-20.8	PASS
			1000~26500	-0.80	-54.92	≤-20.8	PASS
BLE_2M	Ant3	2402	Reference	0.09	0.09	---	PASS
			30~1000	0.09	-59.83	≤-19.91	PASS
			1000~26500	0.09	-46.15	≤-19.91	PASS
		2440	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-59.99	≤-20.98	PASS
			1000~26500	-0.98	-55.24	≤-20.98	PASS
		2480	Reference	-0.82	-0.82	---	PASS
			30~1000	-0.82	-59.73	≤-20.82	PASS
			1000~26500	-0.82	-54.88	≤-20.82	PASS



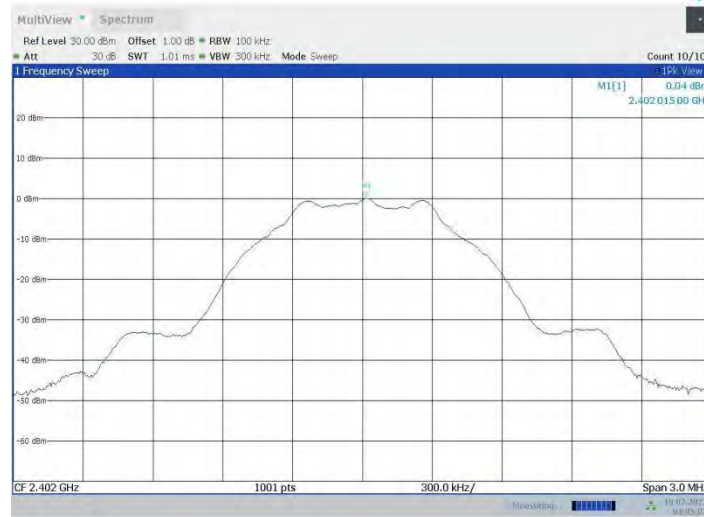
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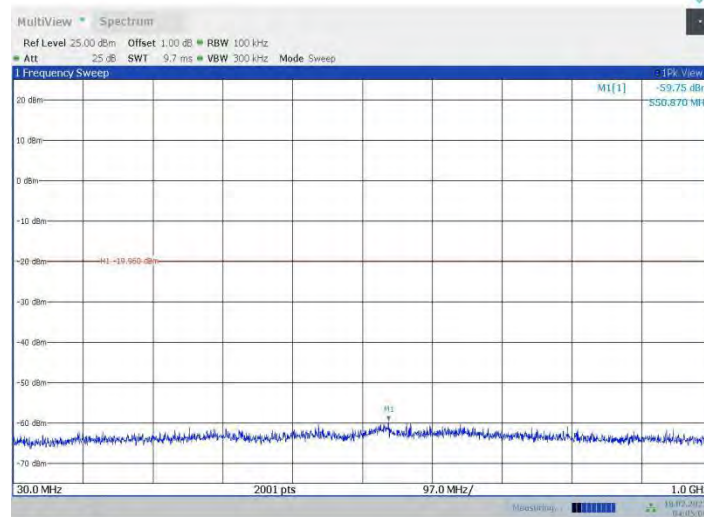
Test Graphs

BLE 1M Ant3 2402 0~Reference



04:05:02 18.02.2022

BLE 1M Ant3 2402 30~1000

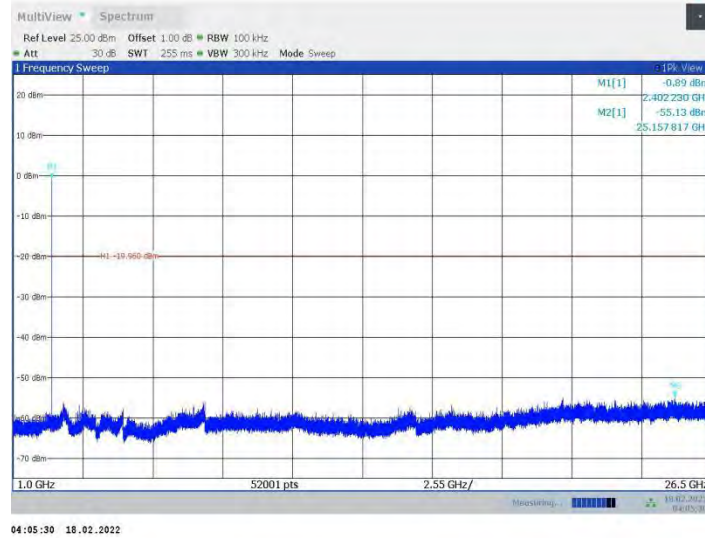


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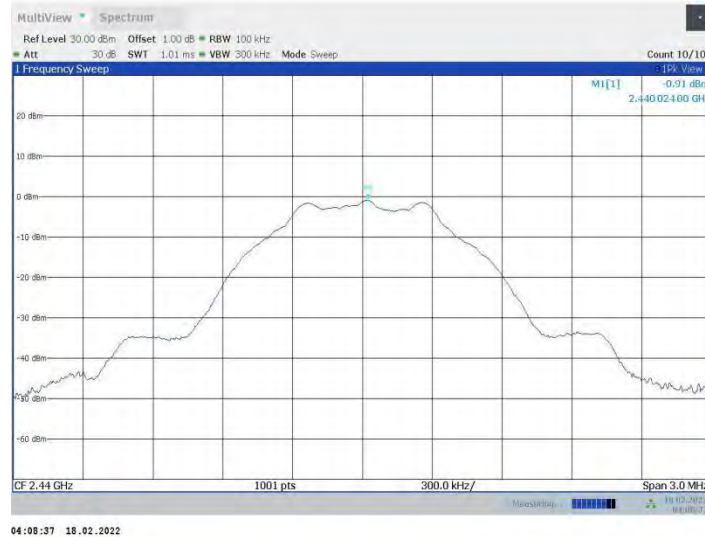


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BLE_1M_Ant3_2402_1000~26500



BLE_1M_Ant3_2440_0~Reference

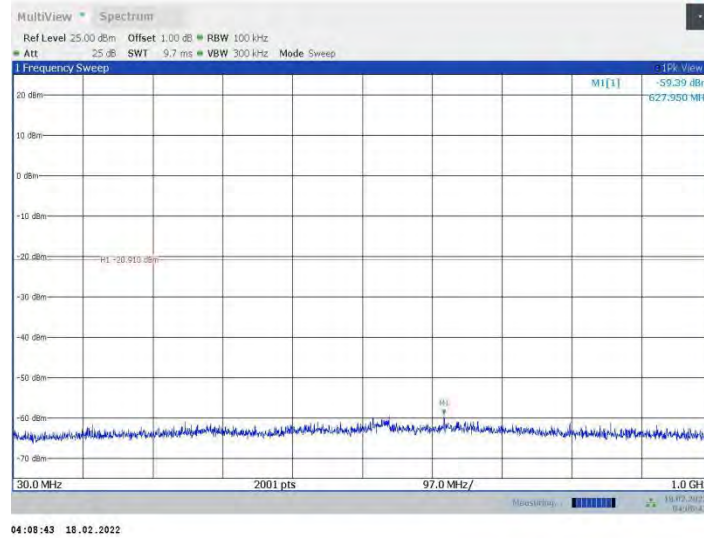


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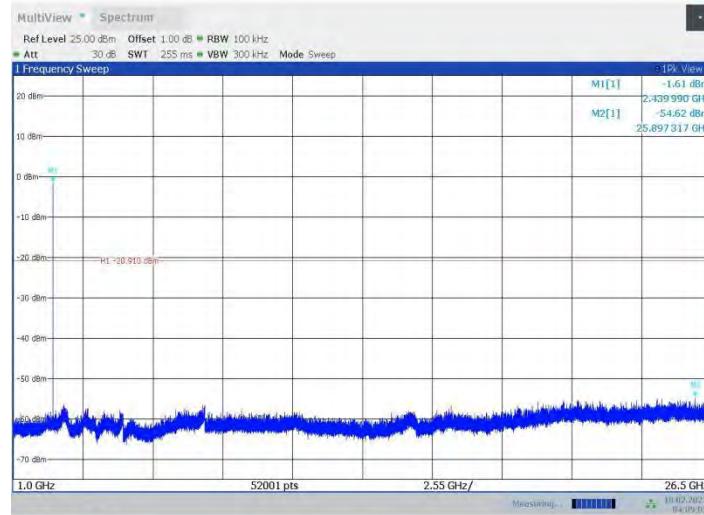
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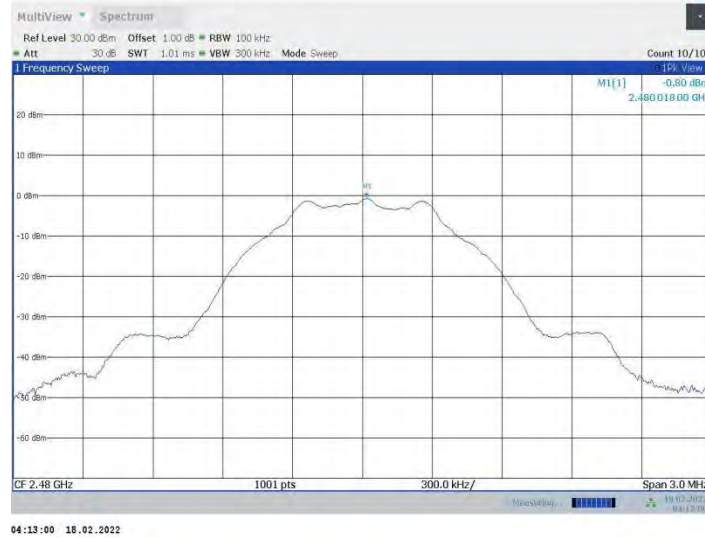


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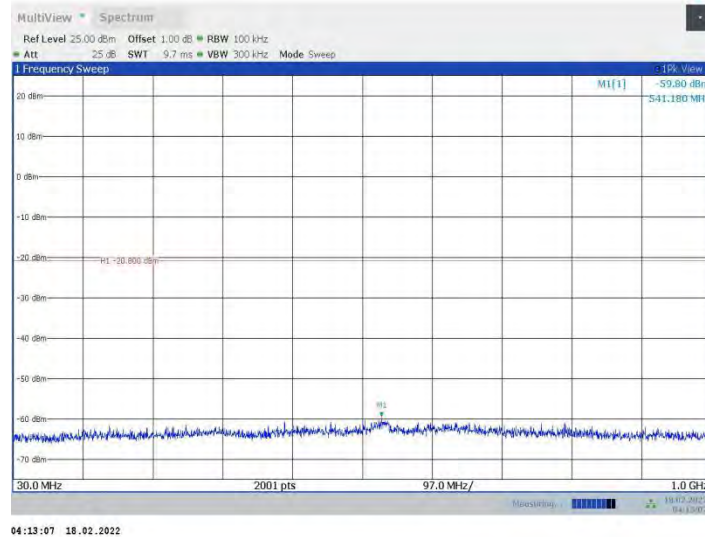
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BLE_1M_Ant3_2480_0~Reference



BLE_1M_Ant3_2480_30~1000

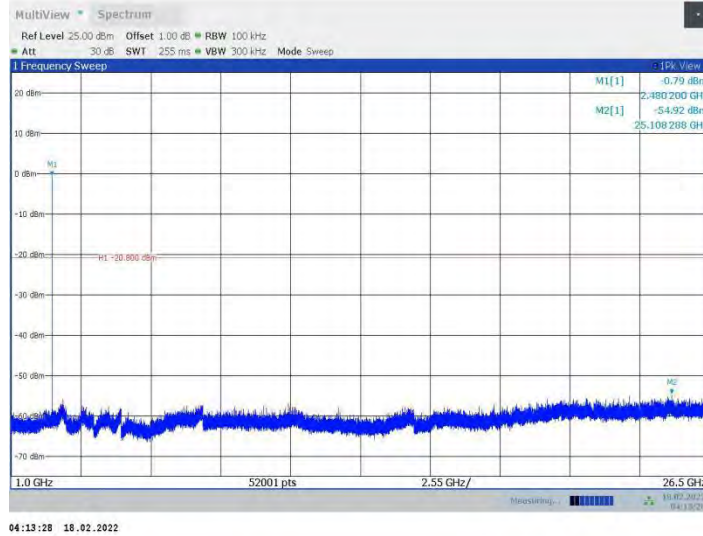


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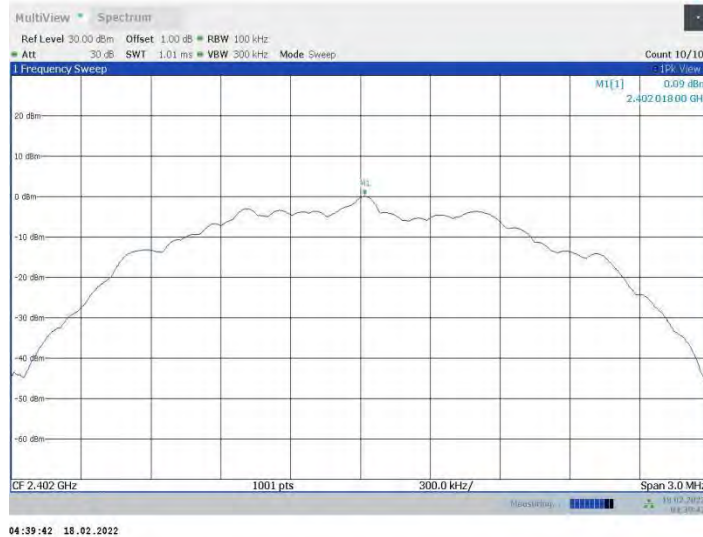
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BLE_1M_Ant3_2480_1000~26500



BLE_2M_Ant3_2402_0~Reference



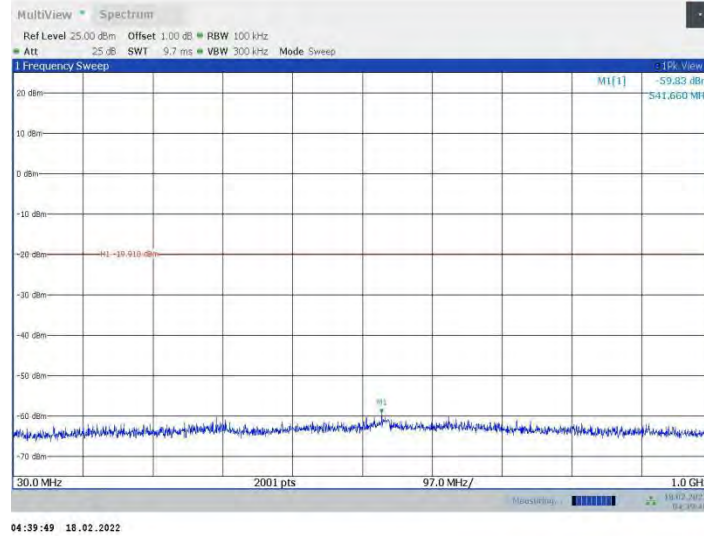
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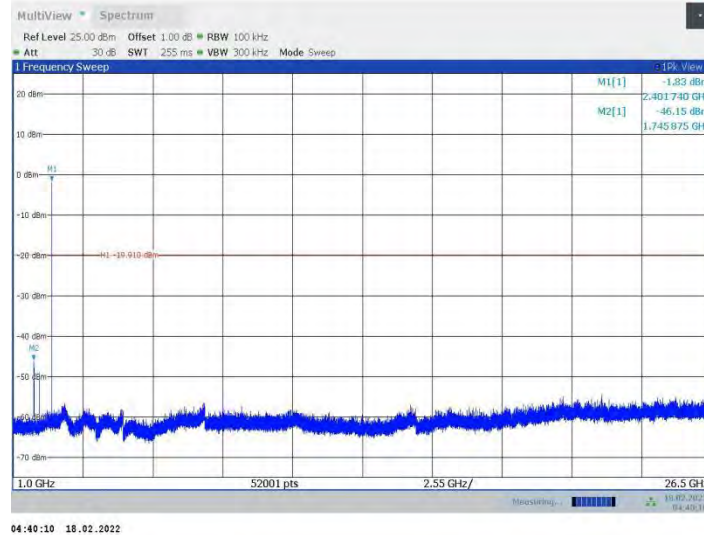
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BLE_2M_Ant3_2402_30~1000



BLE_2M_Ant3_2402_1000~26500



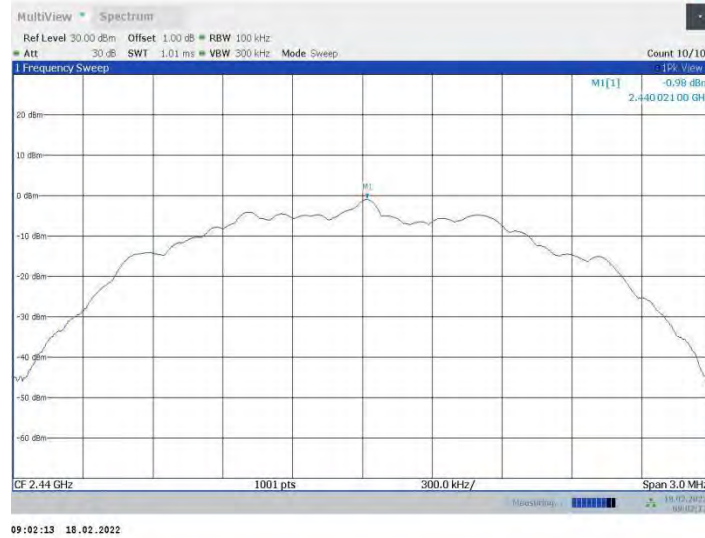
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BLE_2M_Ant3_2440_30~1000



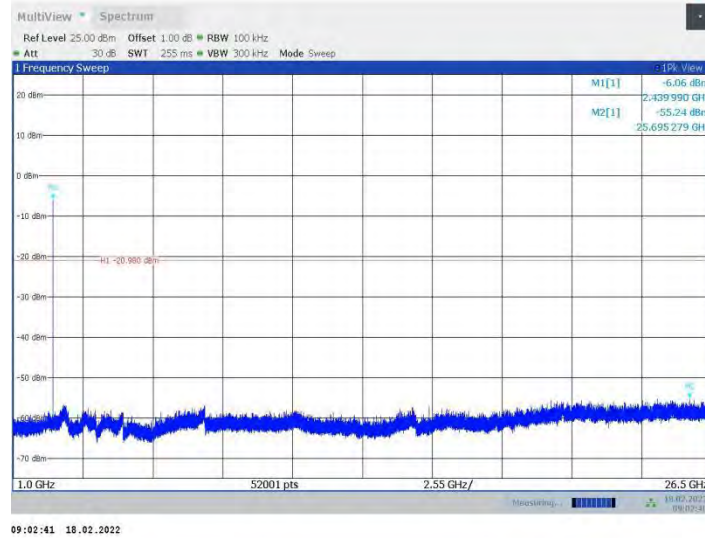
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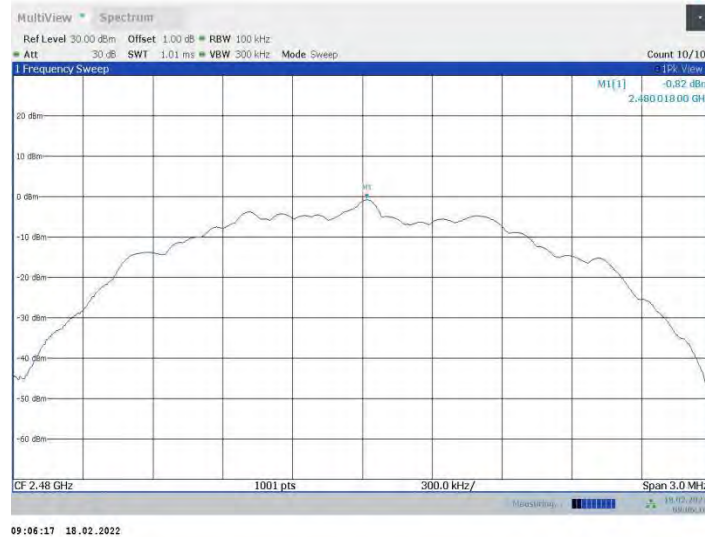
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BLE 2M Ant3 2440_1000~26500



BLE 2M Ant3 2480_0~Reference



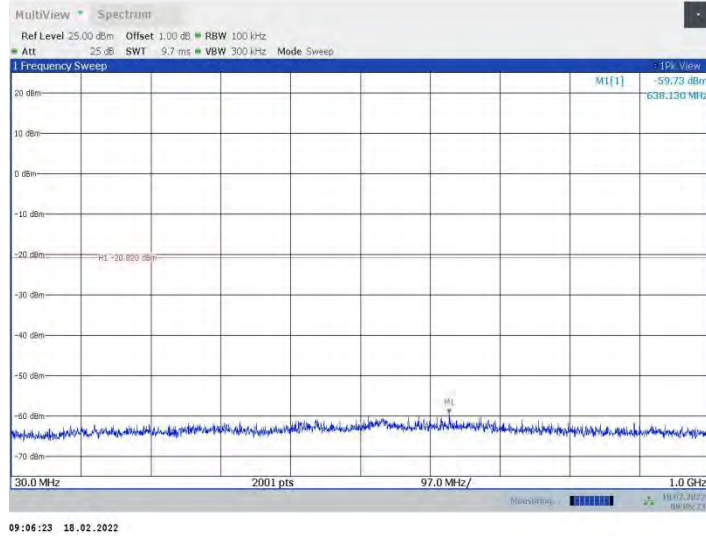
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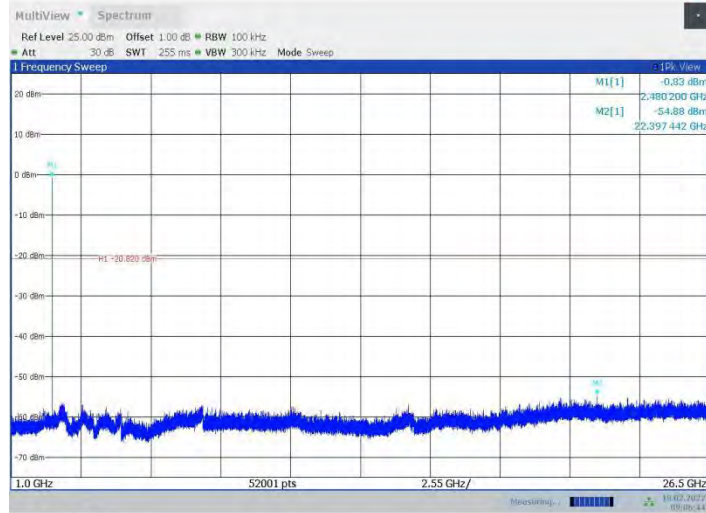
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09:06:23 18.02.2022

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09:06:45 18.02.2022



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant3	2402	0.39	0.63	61.90	2.08
		2440	0.39	0.63	61.90	2.08
		2480	0.39	0.63	61.90	2.08
BLE_2M	Ant3	2402	0.20	0.63	31.75	4.98
		2440	0.20	0.62	32.26	4.91
		2480	0.20	0.63	31.75	4.98



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Test Graphs

BLE 1M Ant3 2402



04:06:51 18.02.2022

BLE 1M Ant3 2440



04:07:30 18.02.2022



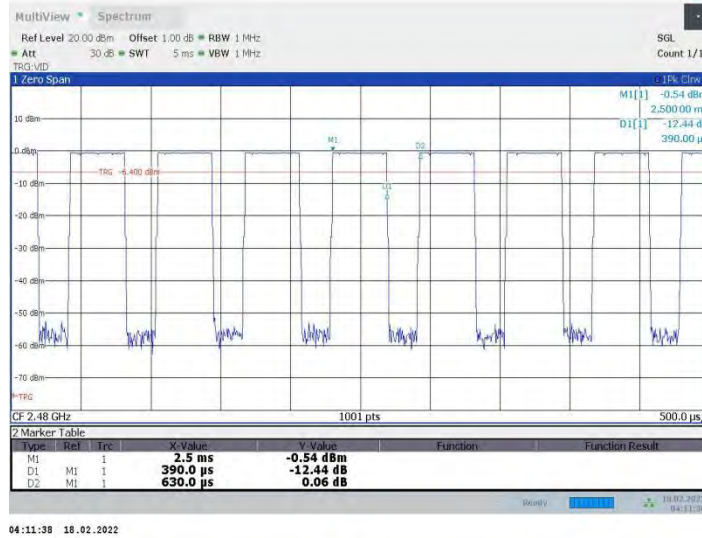
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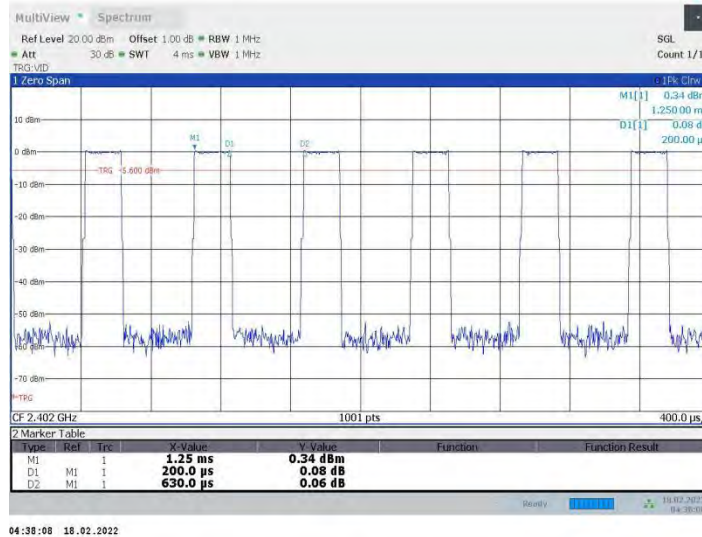
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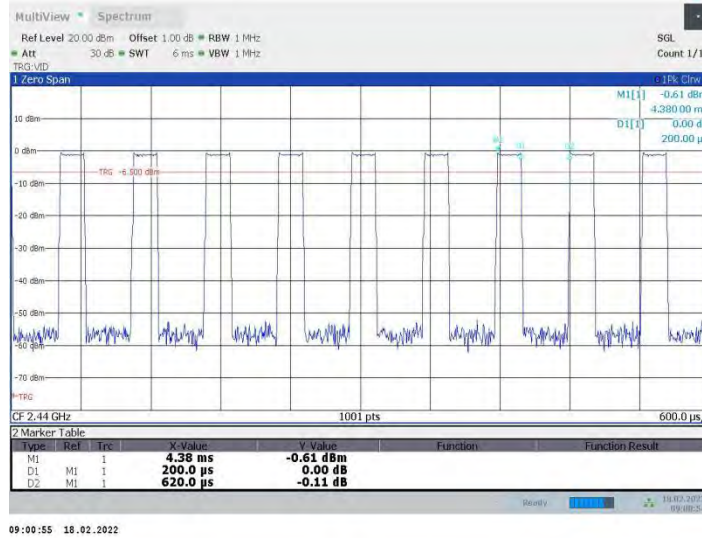
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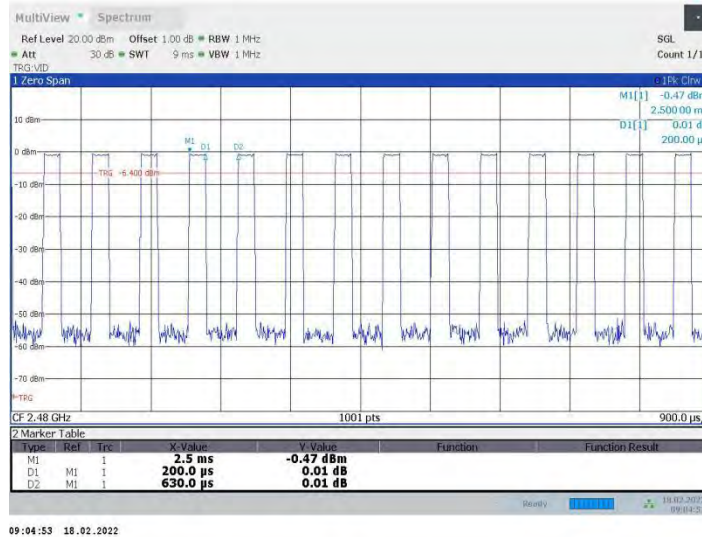
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BLE_2M_Ant3_2440



BLE_2M_Ant3_2480



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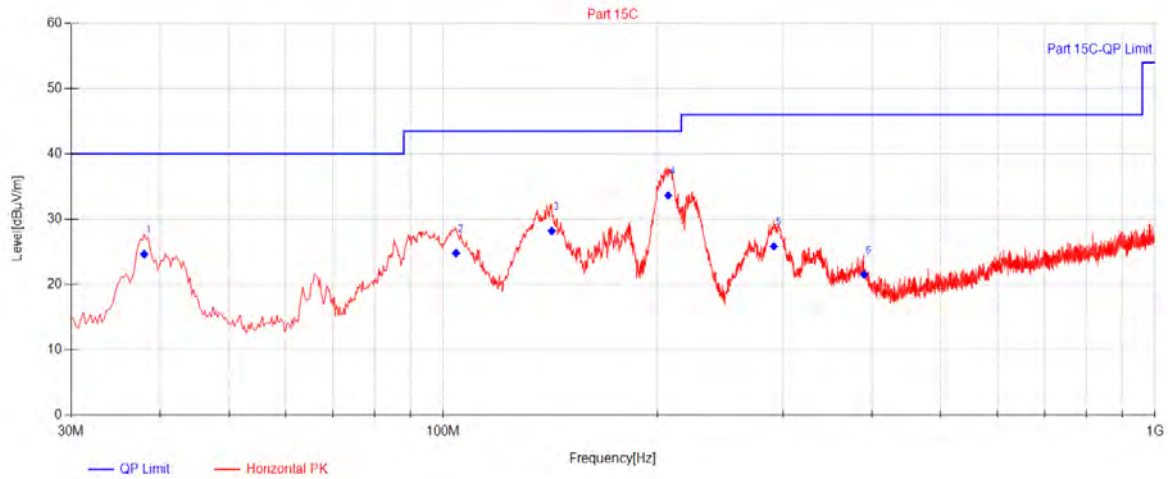
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 1M_Channel 00



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	38.0025	47.22	-22.56	24.66	40.00	15.34	178	81	Horizontal
2	104.205	50.19	-25.36	24.83	43.50	18.67	146	318	Horizontal
3	142.035	50.12	-21.91	28.21	43.50	15.29	239	338	Horizontal
4	207.025	58.56	-24.92	33.64	43.50	9.86	142	188	Horizontal
5	291.415	47.36	-21.50	25.86	46.00	20.14	155	4	Horizontal
6	390.1125	40.19	-18.66	21.53	46.00	24.47	102	21	Horizontal



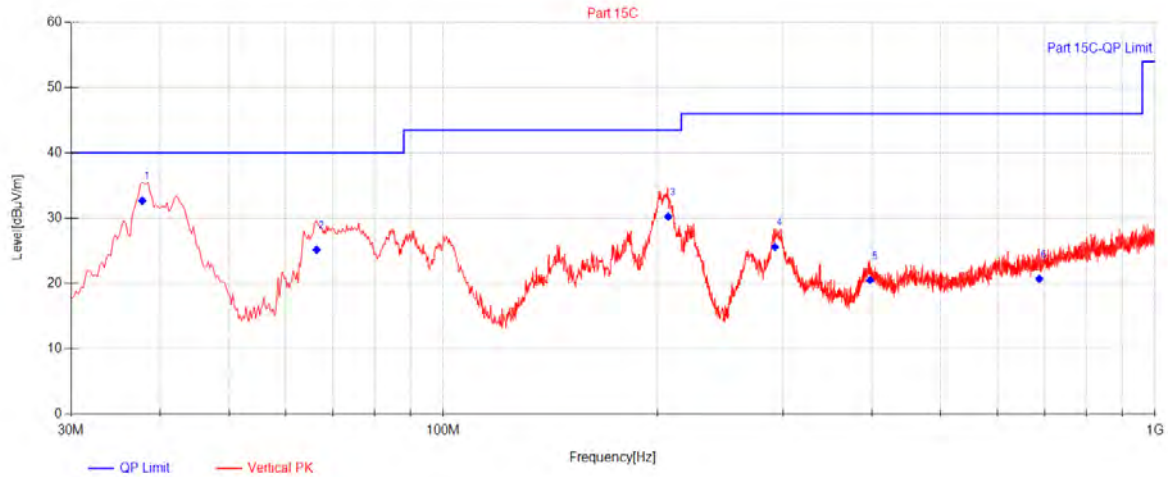
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Worst case Mode: BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	37.76	55.29	-22.60	32.69	40.00	7.31	184	204	Vertical
2	66.375	50.13	-24.96	25.17	40.00	14.83	235	41	Vertical
3	207.025	55.19	-24.92	30.27	43.50	13.23	149	61	Vertical
4	292.385	47.12	-21.51	25.61	46.00	20.39	238	61	Vertical
5	397.8725	39.16	-18.64	20.52	46.00	25.48	142	360	Vertical
6	687.66	33.28	-12.56	20.72	46.00	25.28	188	345	Vertical



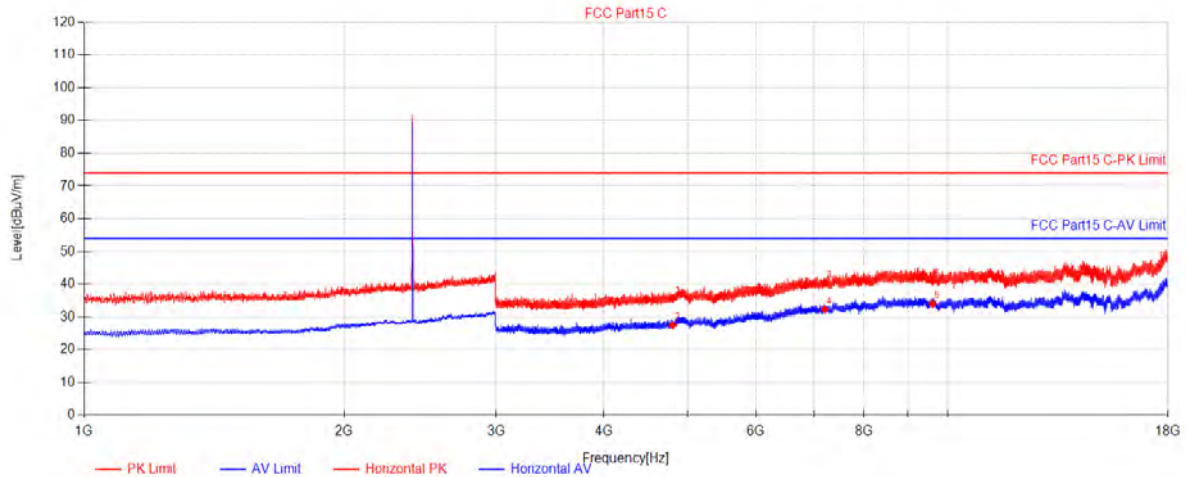
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Transmitter emission above 1GHz

802.BLE 1M_Channel 00



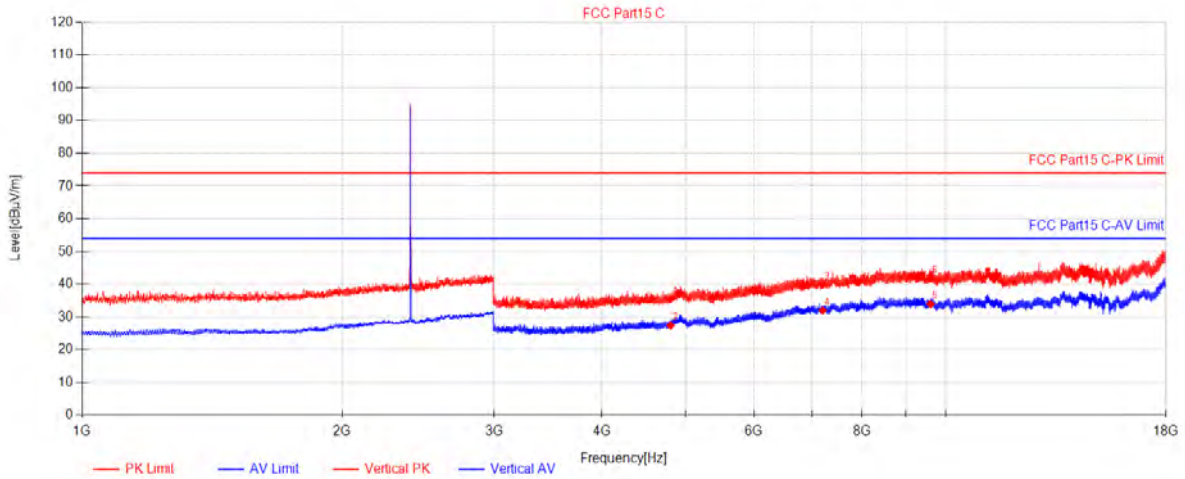
Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.80	-13.21	35.59	74.00	38.41	148	201	Horizontal
2	4804.0000	40.67	-13.21	27.46	54.00	26.54	155	280	Horizontal
3	7206.0000	47.20	-6.84	40.36	74.00	33.64	235	123	Horizontal
4	7206.0000	39.11	-6.84	32.27	54.00	21.73	236	99	Horizontal
5	9608.0000	35.28	-1.22	34.06	54.00	19.94	172	123	Horizontal
6	9608.0000	42.03	-1.22	40.81	74.00	33.19	194	358	Horizontal



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802.BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.66	-13.21	35.45	74.00	38.55	146	256	Vertical
2	4804.0000	40.57	-13.21	27.36	54.00	26.64	155	282	Vertical
3	7206.0000	46.67	-6.84	39.83	74.00	34.17	235	102	Vertical
4	7206.0000	38.81	-6.84	31.97	54.00	22.03	203	26	Vertical
5	9608.0000	35.17	-1.22	33.95	54.00	20.05	172	52	Vertical
6	9608.0000	43.03	-1.22	41.81	74.00	32.19	194	359	Vertical

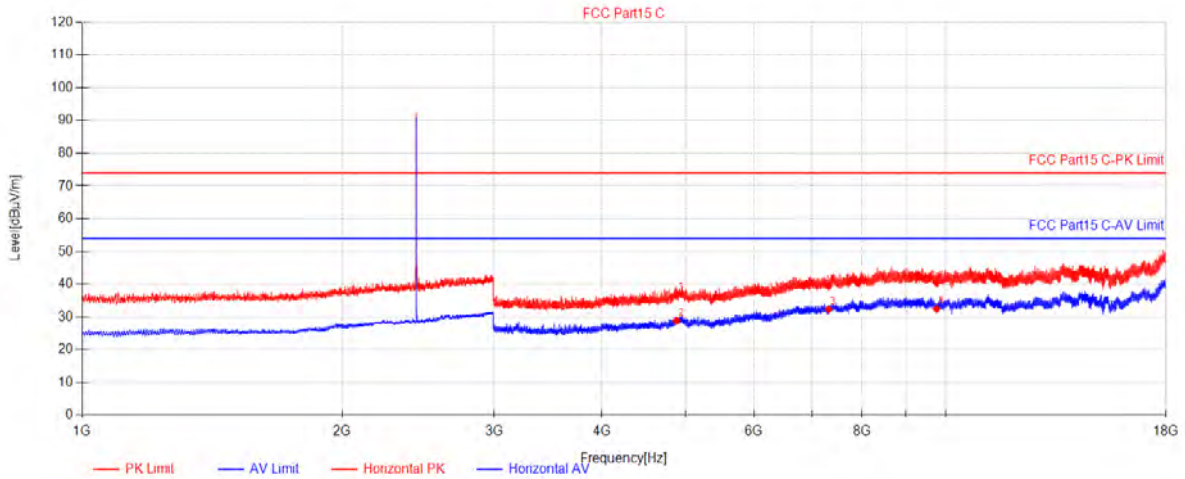


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802.BLE 1M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.80	-12.99	36.81	74.00	37.19	184	154	Horizontal
2	4880.0000	41.81	-12.99	28.82	54.00	25.18	102	352	Horizontal
3	7320.0000	39.49	-7.15	32.34	54.00	21.66	234	25	Horizontal
4	7320.0000	46.58	-7.15	39.43	74.00	34.57	235	311	Horizontal
5	9760.0000	33.64	-1.20	32.44	54.00	21.56	175	78	Horizontal
6	9760.0000	41.60	-1.20	40.40	74.00	33.60	199	284	Horizontal



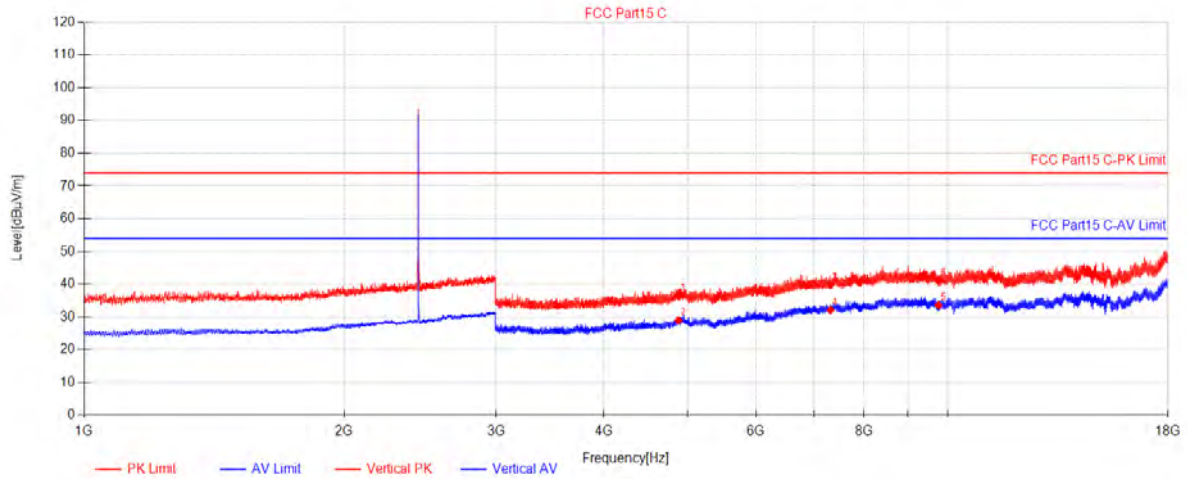
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802.BLE 1M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.45	-12.99	36.46	74.00	37.54	188	282	Vertical
2	4880.0000	41.96	-12.99	28.97	54.00	25.03	201	156	Vertical
3	7320.0000	46.88	-7.15	39.73	74.00	34.27	125	360	Vertical
4	7320.0000	39.25	-7.15	32.10	54.00	21.90	126	258	Vertical
5	9760.0000	34.79	-1.20	33.59	54.00	20.41	234	206	Vertical
6	9760.0000	42.39	-1.20	41.19	74.00	32.81	175	156	Vertical

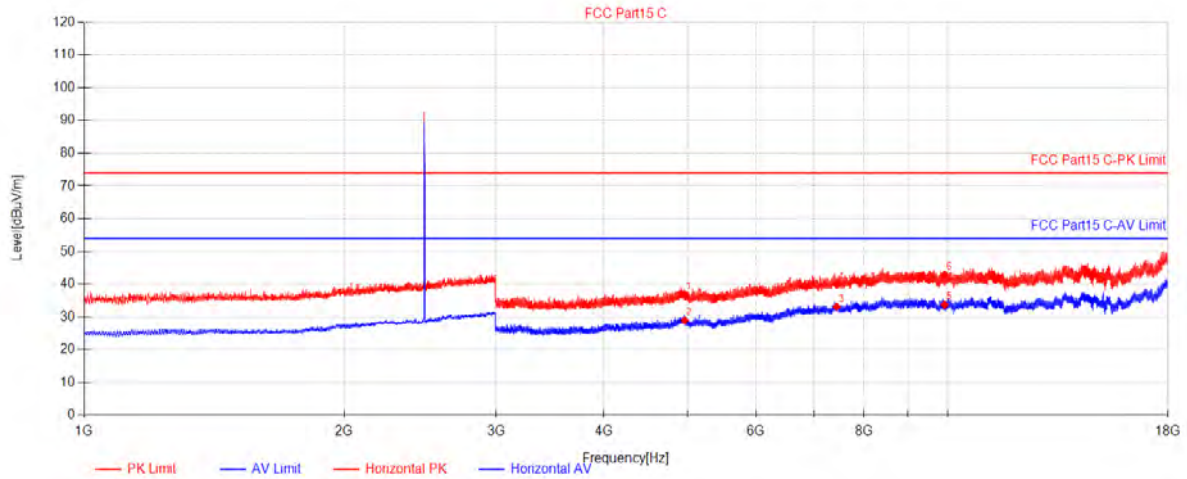


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802.BLE 1M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.72	-12.83	36.89	74.00	37.11	148	294	Horizontal
2	4960.0000	41.74	-12.83	28.91	54.00	25.09	235	4	Horizontal
3	7440.0000	39.94	-6.83	33.11	54.00	20.89	149	294	Horizontal
4	7440.0000	46.66	-6.83	39.83	74.00	34.17	188	243	Horizontal
5	9920.0000	34.62	-0.93	33.69	54.00	20.31	255	319	Horizontal
6	9920.0000	43.84	-0.93	42.91	74.00	31.09	164	62	Horizontal

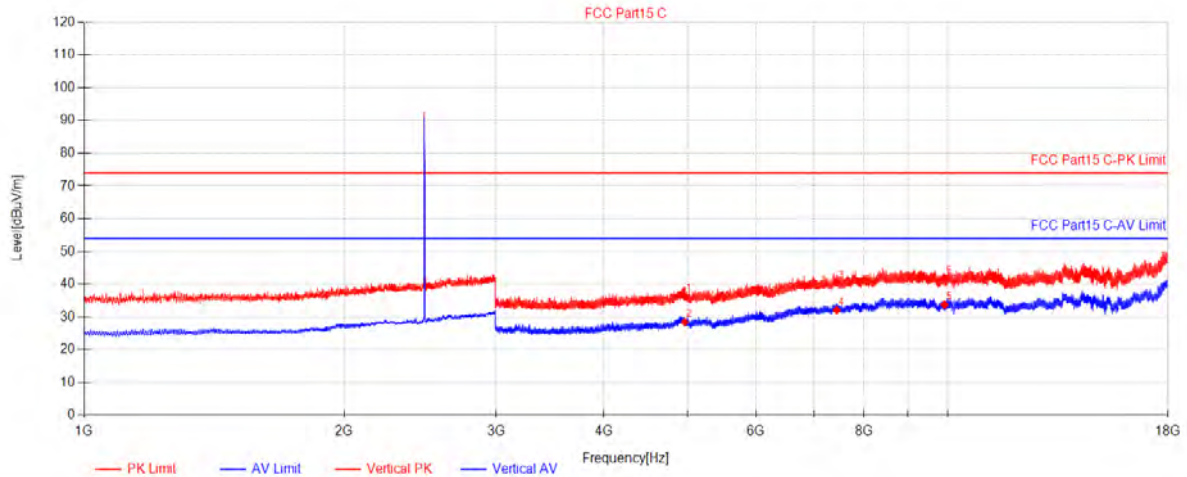


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802.BLE 1M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.07	-12.83	36.24	74.00	37.76	102	310	Vertical
2	4960.0000	41.23	-12.83	28.40	54.00	25.60	234	256	Vertical
3	7440.0000	47.32	-6.83	40.49	74.00	33.51	259	4	Vertical
4	7440.0000	38.88	-6.83	32.05	54.00	21.95	129	78	Vertical
5	9920.0000	34.65	-0.93	33.72	54.00	20.28	175	103	Vertical
6	9920.0000	42.86	-0.93	41.93	74.00	32.07	184	78	Vertical

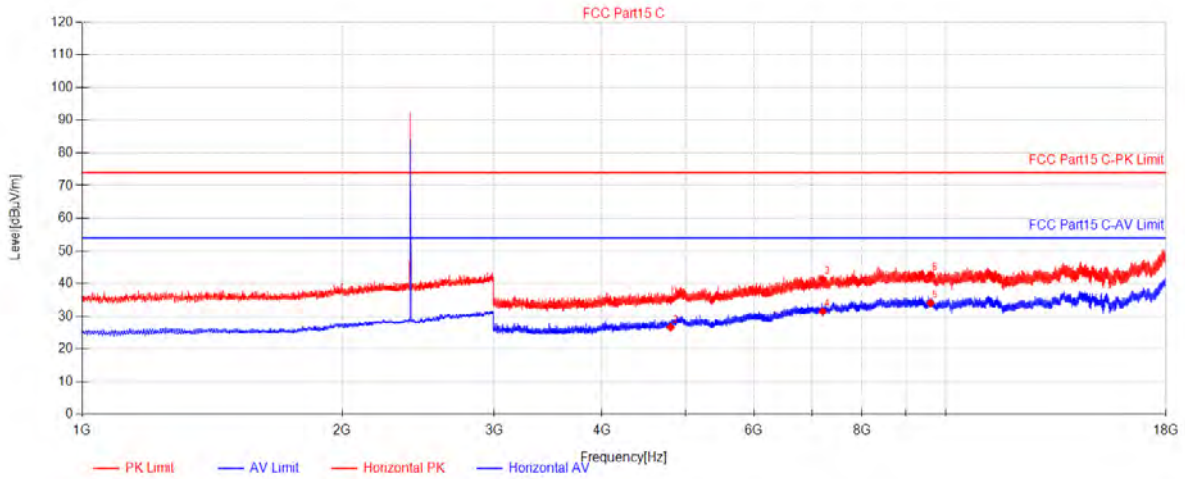


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802.BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	48.18	-13.21	34.97	74.00	39.03	125	283	Horizontal
2	4804.0000	39.80	-13.21	26.59	54.00	27.41	111	360	Horizontal
3	7206.0000	48.15	-6.84	41.31	74.00	32.69	142	334	Horizontal
4	7206.0000	38.26	-6.84	31.42	54.00	22.58	172	257	Horizontal
5	9608.0000	35.29	-1.22	34.07	54.00	19.93	199	283	Horizontal
6	9608.0000	43.84	-1.22	42.62	74.00	31.38	135	103	Horizontal

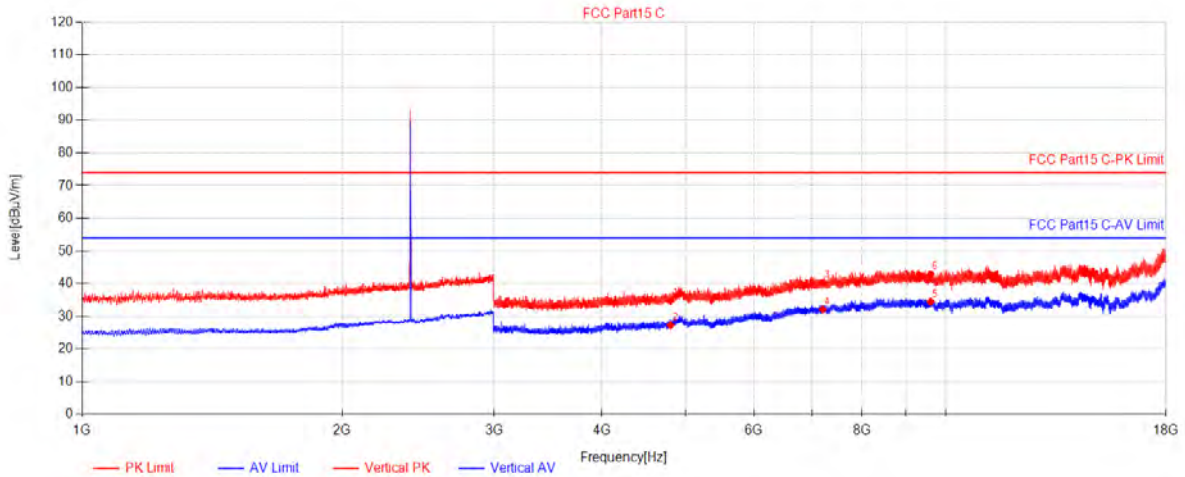


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802.BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4804.0000	47.95	-13.21	34.74	74.00	39.26	178	331	Vertical
2	4804.0000	40.48	-13.21	27.27	54.00	26.73	205	100	Vertical
3	7206.0000	47.10	-6.84	40.26	74.00	33.74	194	228	Vertical
4	7206.0000	38.96	-6.84	32.12	54.00	21.88	148	176	Vertical
5	9608.0000	35.65	-1.22	34.43	54.00	19.57	235	351	Vertical
6	9608.0000	44.07	-1.22	42.85	74.00	31.15	122	127	Vertical

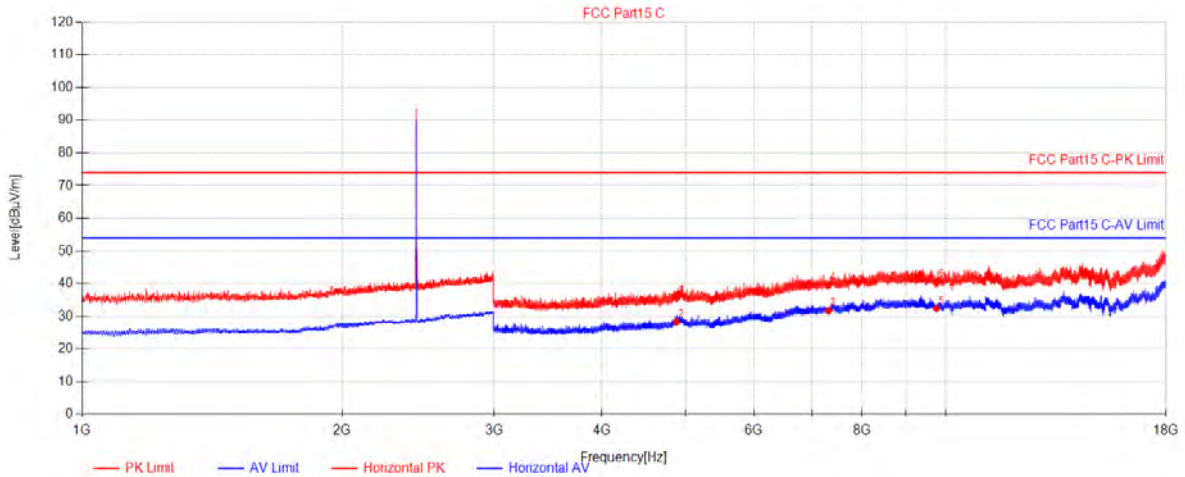


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802.BLE 2M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	48.56	-12.99	35.57	74.00	38.43	128	258	Horizontal
2	4880.0000	41.29	-12.99	28.30	54.00	25.70	178	359	Horizontal
3	7320.0000	38.82	-7.15	31.67	54.00	22.33	105	208	Horizontal
4	7320.0000	46.73	-7.15	39.58	74.00	34.42	199	28	Horizontal
5	9760.0000	33.58	-1.20	32.38	54.00	21.62	114	80	Horizontal
6	9760.0000	41.78	-1.20	40.58	74.00	33.42	231	310	Horizontal

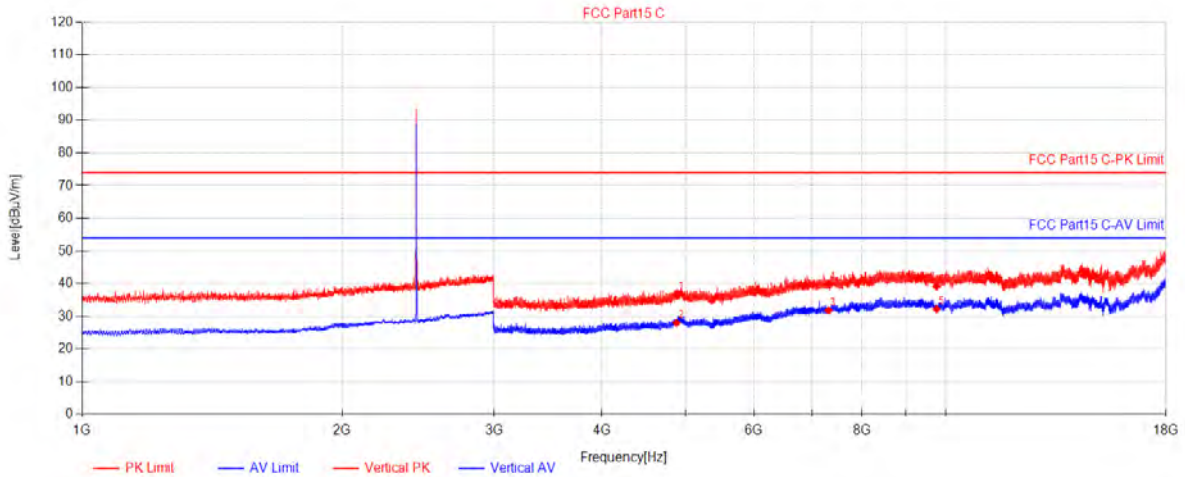


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802.BLE 2M_Channel 19



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4880.0000	49.91	-12.99	36.92	74.00	37.08	189	145	Vertical
2	4880.0000	40.98	-12.99	27.99	54.00	26.01	210	177	Vertical
3	7320.0000	38.92	-7.15	31.77	54.00	22.23	170	203	Vertical
4	7320.0000	47.09	-7.15	39.94	74.00	34.06	235	25	Vertical
5	9760.0000	33.40	-1.20	32.20	54.00	21.80	195	359	Vertical
6	9760.0000	40.35	-1.20	39.15	74.00	34.85	144	352	Vertical

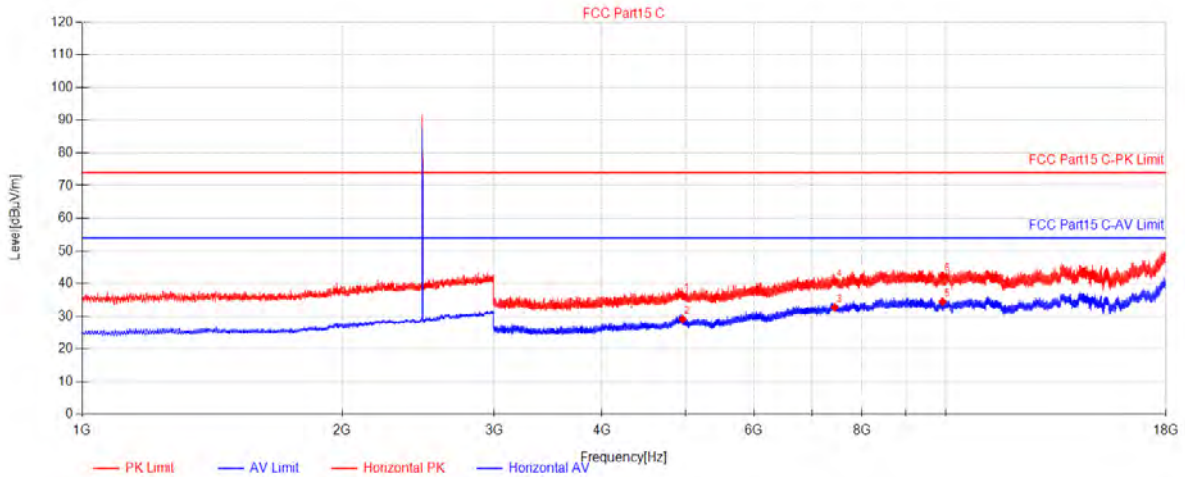


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802.BLE 2M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.00	-12.83	36.17	74.00	37.83	185	204	Horizontal
2	4960.0000	41.96	-12.83	29.13	54.00	24.87	201	25	Horizontal
3	7440.0000	39.53	-6.83	32.70	54.00	21.30	148	103	Horizontal
4	7440.0000	47.45	-6.83	40.62	74.00	33.38	149	180	Horizontal
5	9920.0000	35.38	-0.93	34.45	54.00	19.55	235	231	Horizontal
6	9920.0000	43.31	-0.93	42.38	74.00	31.62	176	180	Horizontal



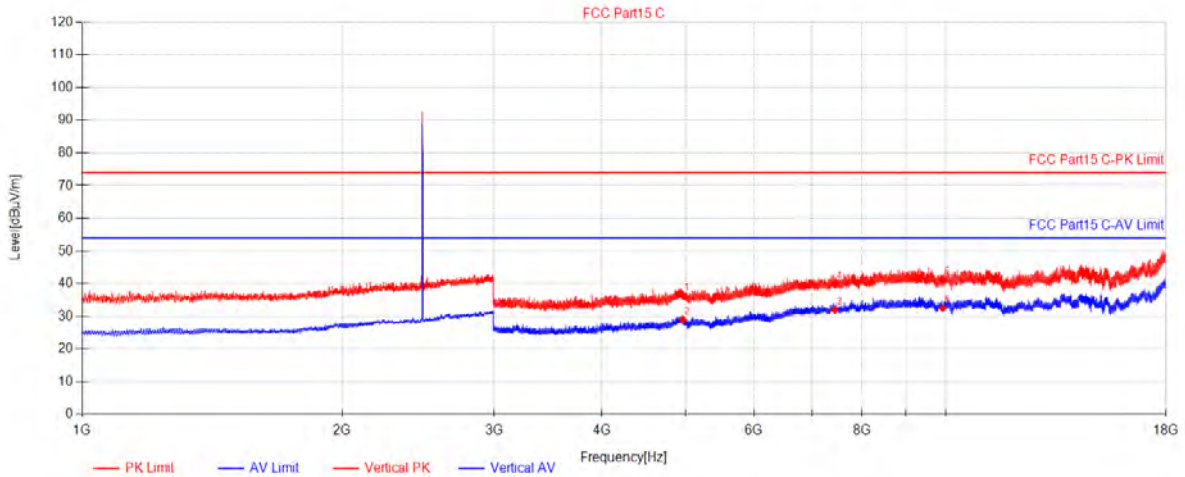
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802.BLE 2M_Channel 39



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4960.0000	49.25	-12.83	36.42	74.00	37.58	148	53	Vertical
2	4960.0000	41.83	-12.83	29.00	54.00	25.00	119	260	Vertical
3	7440.0000	38.77	-6.83	31.94	54.00	22.06	234	158	Vertical
4	7440.0000	46.59	-6.83	39.76	74.00	34.24	196	53	Vertical
5	9920.0000	33.48	-0.93	32.55	54.00	21.45	175	359	Vertical
6	9920.0000	42.21	-0.93	41.28	74.00	32.72	258	312	Vertical



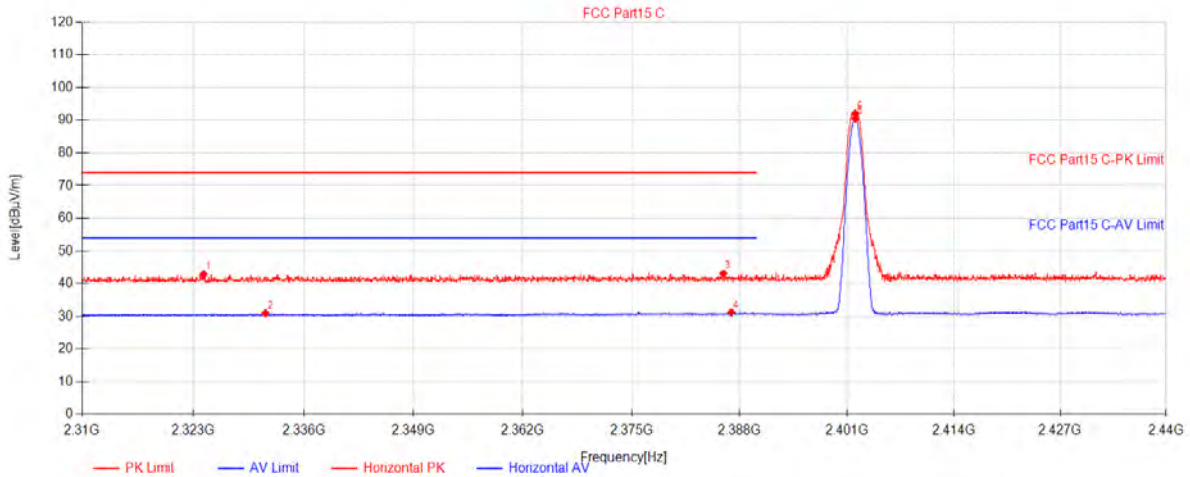
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Restricted bands around fundamental frequency

802.BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2324.2133	39.78	3.09	42.87	74.00	31.13	264	314	Horizontal
2	2331.4933	27.80	3.09	30.89	54.00	23.11	264	314	Horizontal
3	2386.05	40.00	3.07	43.07	74.00	30.93	264	314	Horizontal
4	2387.0033	28.08	3.07	31.15	54.00	22.85	264	314	Horizontal
5	2402.0000	87.44	3.08	90.52	-	-	264	314	Horizontal
6	2402.0000	88.95	3.08	92.03	-	-	264	314	Horizontal



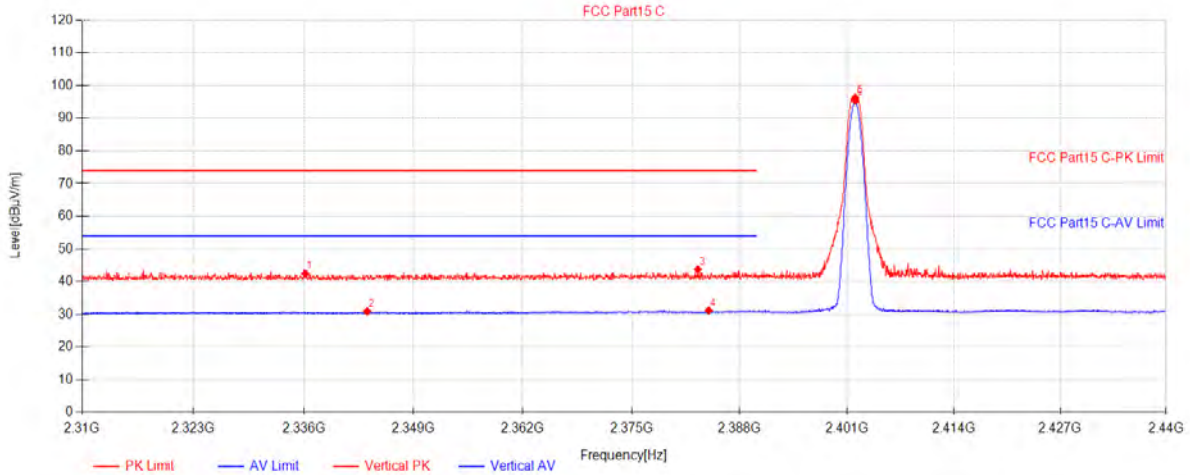
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802.BLE 1M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2336.1733	39.36	3.09	42.45	74.00	31.55	124	226	Vertical
2	2343.4967	27.77	3.09	30.86	54.00	23.14	124	226	Vertical
3	2382.9733	40.67	3.08	43.75	74.00	30.25	124	226	Vertical
4	2384.2733	28.04	3.07	31.11	54.00	22.89	124	226	Vertical
5	2402.0000	93.14	3.08	96.22	-	-	124	226	Vertical
6	2402.0000	92.42	3.08	95.50	-	-	124	226	Vertical

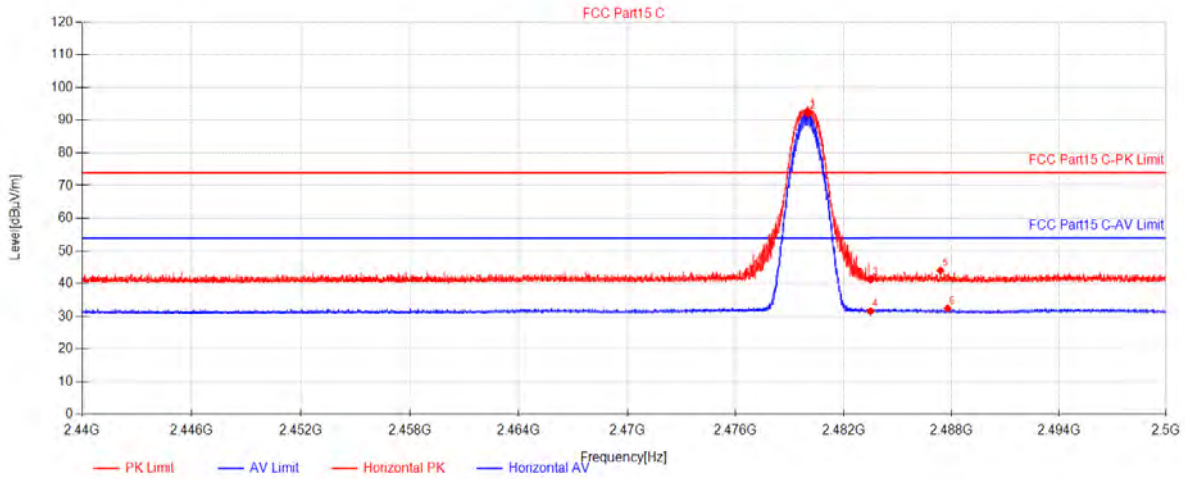


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802.BLE 1M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	89.23	3.57	92.80	-	-	158	124	Horizontal
2	2480.0000	88.52	3.57	92.09	-	-	158	124	Horizontal
3	2483.5000	37.60	3.60	41.20	74.00	32.80	158	124	Horizontal
4	2483.5000	27.89	3.60	31.49	54.00	22.51	158	124	Horizontal
5	2487.3925	40.39	3.62	44.01	74.00	29.99	158	124	Horizontal
6	2487.79	28.79	3.62	32.41	54.00	21.59	158	124	Horizontal



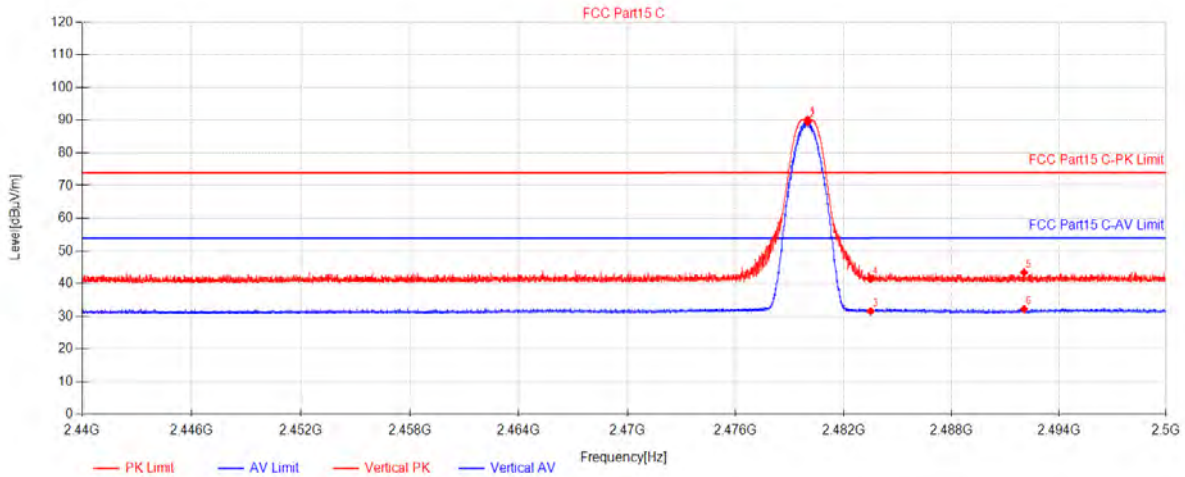
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802.BLE 1M_Channel 39



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	86.65	3.57	90.22	-	-	149	262	Vertical
2	2480.0000	85.90	3.57	89.47	-	-	149	262	Vertical
3	2483.5000	27.92	3.60	31.52	54.00	22.48	149	262	Vertical
4	2483.5000	37.82	3.60	41.42	74.00	32.58	149	262	Vertical
5	2492.0575	39.74	3.65	43.39	74.00	30.61	149	262	Vertical
6	2492.0575	28.57	3.65	32.22	54.00	21.78	149	262	Vertical



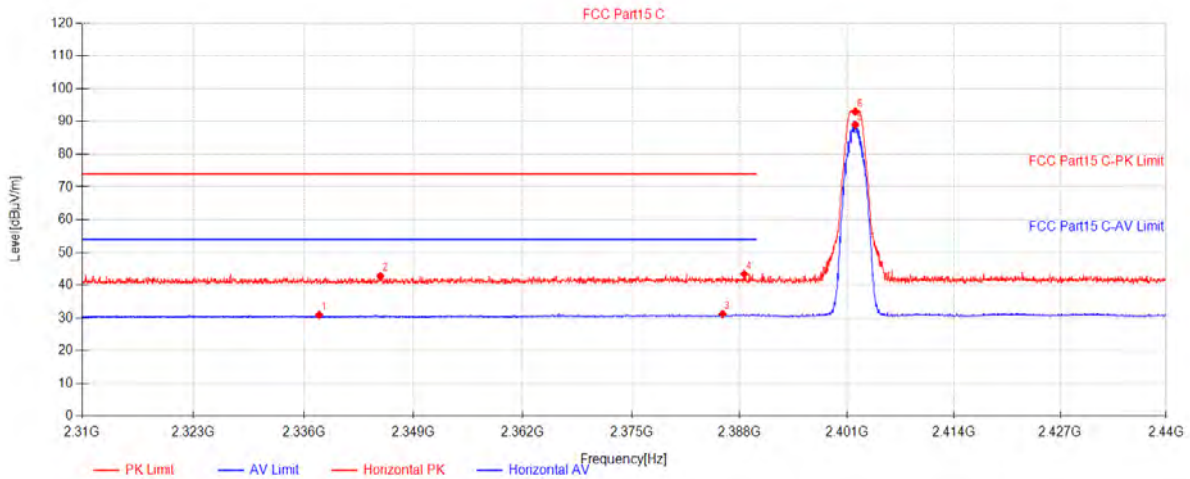
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802.BLE 2M_Channel 00



Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2337.82	27.78	3.09	30.87	54.00	23.13	145	352	Horizontal
2	2345.0567	39.71	3.09	42.80	74.00	31.20	145	352	Horizontal
3	2385.9633	28.09	3.07	31.16	54.00	22.84	145	352	Horizontal
4	2388.5633	40.32	3.07	43.39	74.00	30.61	145	352	Horizontal
5	2402.0000	85.96	3.08	89.04	-	-	145	352	Horizontal
6	2402.0000	89.97	3.08	93.05	-	-	145	352	Horizontal

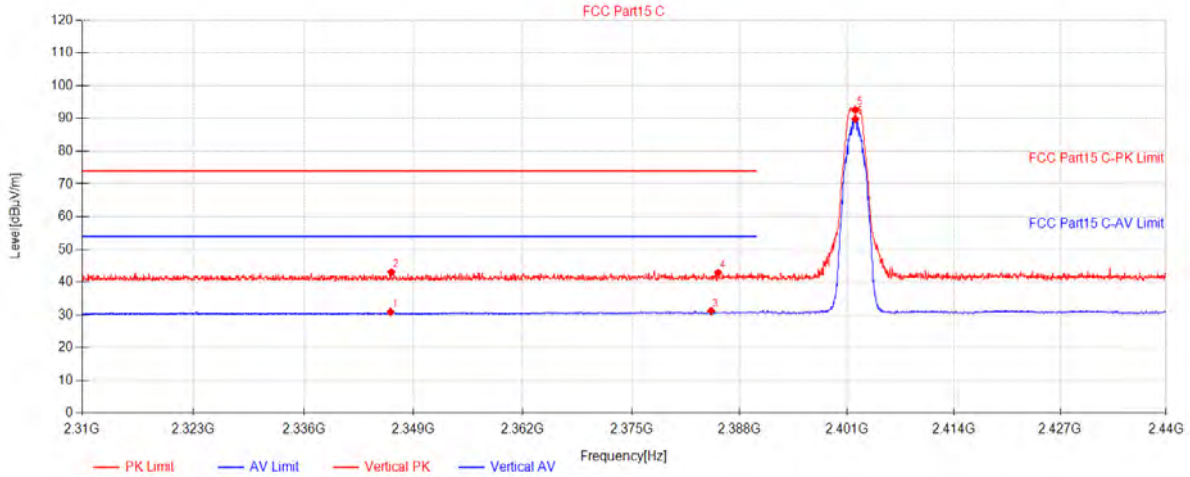


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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2346.27	27.77	3.09	30.86	54.00	23.14	235	179	Vertical
2	2346.3567	39.99	3.09	43.08	74.00	30.92	235	179	Vertical
3	2384.5767	28.06	3.07	31.13	54.00	22.87	235	179	Vertical
4	2385.4	39.79	3.07	42.86	74.00	31.14	235	179	Vertical
5	2402.0000	89.55	3.08	92.63	-	-	235	179	Vertical
6	2402.0000	86.78	3.08	89.86	-	-	235	179	Vertical



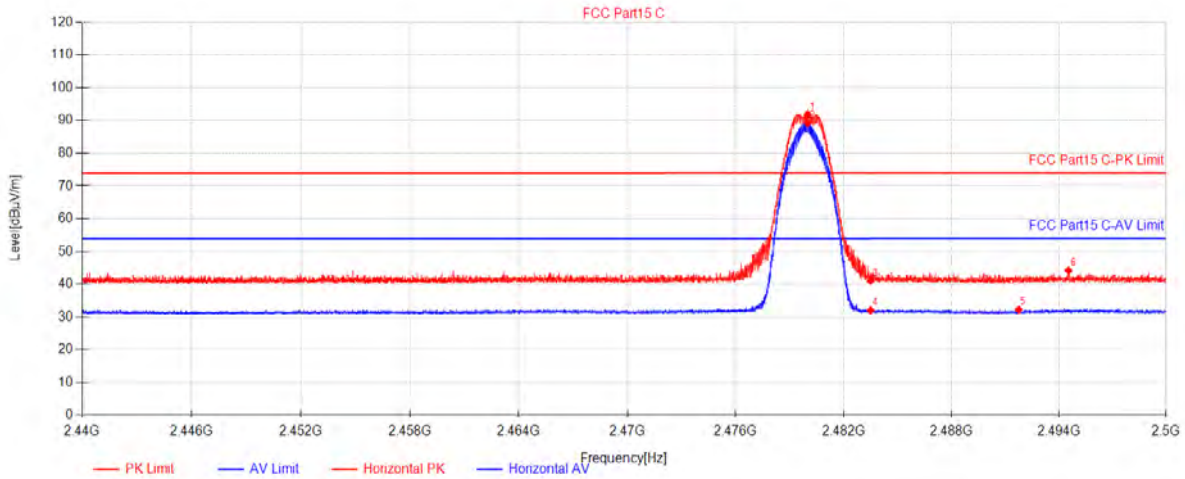
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802.BLE 2M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	88.29	3.57	91.86	-	-	196	123	Horizontal
2	2480.0000	85.62	3.57	89.19	-	-	196	123	Horizontal
3	2483.5000	37.40	3.60	41.00	74.00	33.00	196	123	Horizontal
4	2483.5000	28.42	3.60	32.02	54.00	21.98	196	123	Horizontal
5	2491.7575	28.56	3.65	32.21	54.00	21.79	196	123	Horizontal
6	2494.54	40.49	3.67	44.16	74.00	29.84	196	123	Horizontal

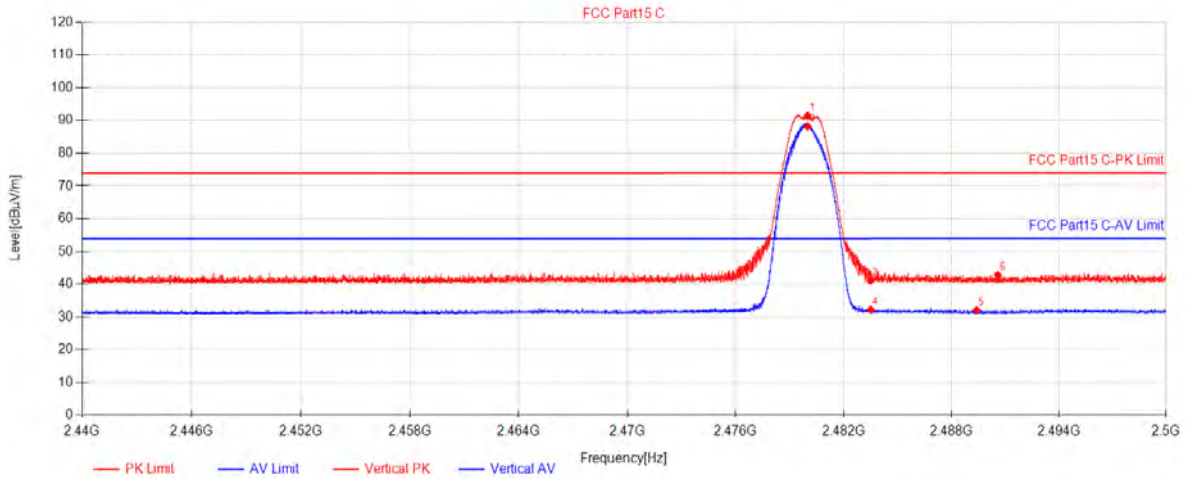


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802.BLE 2M_Channel 39



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2480.0000	87.93	3.57	91.50	-	-	114	274	Vertical
2	2480.0000	84.68	3.57	88.25	-	-	114	274	Vertical
3	2483.5000	37.43	3.60	41.03	74.00	32.97	114	274	Vertical
4	2483.5000	28.61	3.60	32.21	54.00	21.79	114	274	Vertical
5	2489.41	28.44	3.63	32.07	54.00	21.93	114	274	Vertical
6	2490.5875	39.17	3.64	42.81	74.00	31.19	114	274	Vertical

The End



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