



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241200053002

Rev.: 01

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TEST REPORT

Application No.: SUCR2412000530MO
Applicant: Quectel Wireless Solutions Co., Ltd.
Address of Applicant: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer: Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
EUT Description: Wi-Fi & Bluetooth Module
Model No.: FGM840R
Trade Mark: Quectel
FCC ID: XMR2024FGM840R
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: December 8, 2024
Date of Test: December 9, 2024 to January 1, 2025
Date of Issue: January 13, 2025

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

Nature Shen

Cloud Peng

Prepared by: Nature Shen/ Project Manager

**Approved by: Cloud Peng/
Technical Manager**

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		January 13, 2025		Original

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1 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result	Test Lab*
Antenna Requirement	15.203/15.247(b)	--	Clause 3.1	PASS	--
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 3.2	PASS	C
Duty cycle	--	ANSI C63.10 2013 Section 11.6	Clause 3.3	For Report Purpose	A
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 3.4	PASS	A
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 3.5	PASS	A
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 3.6	PASS	A
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.13.3	Clause 3.7	PASS	A
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 3.8	PASS	A
Radiated Spurious Emissions	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.9	PASS	C
Restricted bands around fundamental frequency (Radiated Emission)	15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 3.10	PASS	C

Remark:

1. Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Lab B SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Lab C SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

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2 General Information

2.1 Details of Client

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

2.2 Test Location

Lab A:	
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:	Super Wu
Lab C:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Abbott Wang

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2.3 Test Facility

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

Lab A:

- **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

Lab C:

- **A2LA (Certificate No. 4854.01)**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

- **FCC –Designation Number: CN1337**

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN1337.

Test Firm Registration Number: 917410

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2.4 General Description of EUT

EUT Description:	Wi-Fi & Bluetooth Module
Model No.:	FGM840R
Trade Mark:	Quectel
Hardware Version:	FGM840RAAMD-0L-04(R1.0),FGM840RAAMD-4X-04(R1.1)
Software Version:	FGM840RAAR01A01M04
Power Supply:	3.0~3.6V, typ3.3 V
Operation Frequency:	2400MHz~2483.5MHz fc = 2402 MHz + N * 2 MHz, where: -fc = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 39.
Bluetooth version:	Bluetooth V5.0
Modulation Type:	GFSK
Number of Channel:	40
Rates Type*:	<input checked="" type="checkbox"/> Provided by client
	1M PHY 2M PHY
Antenna Type:	External Antenna
Antenna Gain*:	2.1dBi(Y4RYM0MA0AA/Y4RYM0MA0BA/Y4RYM0MA0CA)
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
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.
- FGM840R has two Hardware Version: FGM840RAAMD-0L-04, FGM840RAAMD-4X-04. FGM840RAAMD-4X-04 and FGM840RAAMD-0L-04 both use RTL8720DF chipset, share the same chipset baseline, same software and hardware design, the primary difference lies in the antenna pedestal. FGM840RAAMD-4X-04 use IPEX antenna port, FGM840RAAMD-0L-04 use LCC pad port, Distinguish by changing the position of one resistor. Based on the differences, main test FGM840RAAMD-0L-04(R1.0) version, FGM840RAAMD-4X-04(R1.1) version Check worse mode RSE, only the worst data is presented in the report.
- FGM840R has three antenna, respectively: Y4RYM0MA0AA/Y4RYM0MA0BA/Y4RYM0MA0CA. Y4RYM0MA0AA, Y4RYM0MA0BA, Y4RYM0MA0CA both are FPC + 1.13 + Ipex-1 antenna. Among them, Y4RYM0MA0CA is the mirror version of Y4RYM0MA0AA, and Y4RYM0MA0BA is the version where Y4RYM0MA0AA modifies the line length. Pre-scan was done on the above antennas, measurements

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were demonstrated by using the antenna with the highest gain as the worst case scenarios.
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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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2.5 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	3.3
Remark: NV: Normal Voltage NT: Normal Temperature		

2.6 Description of Support Units

Description	Manufacturer	Model No.
Mother board	Quectel	N/A
Remark: all above the information of table are provided by client.		

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3 Test results and Measurement Data

3.1 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 Dipole Antenna and no consideration of replacement. The best case gain of the antenna is 2.1dBi.</p> <p><i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <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.</i></p>	

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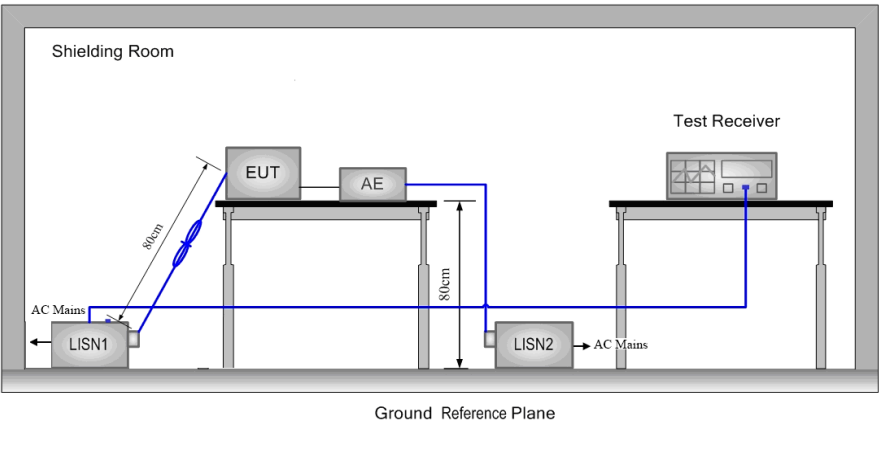
3.2 AC Power Line Conducted Emissions

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

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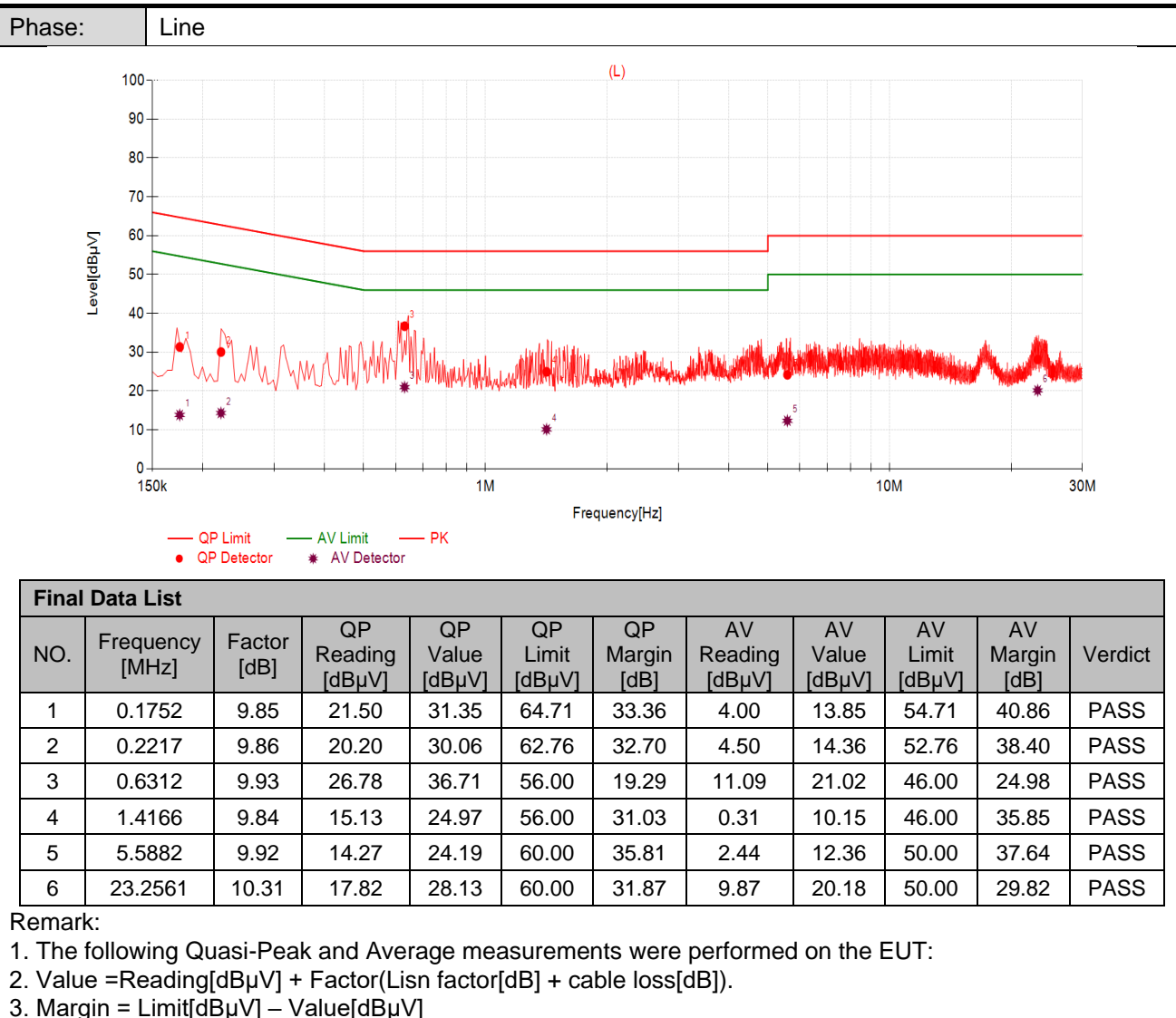
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

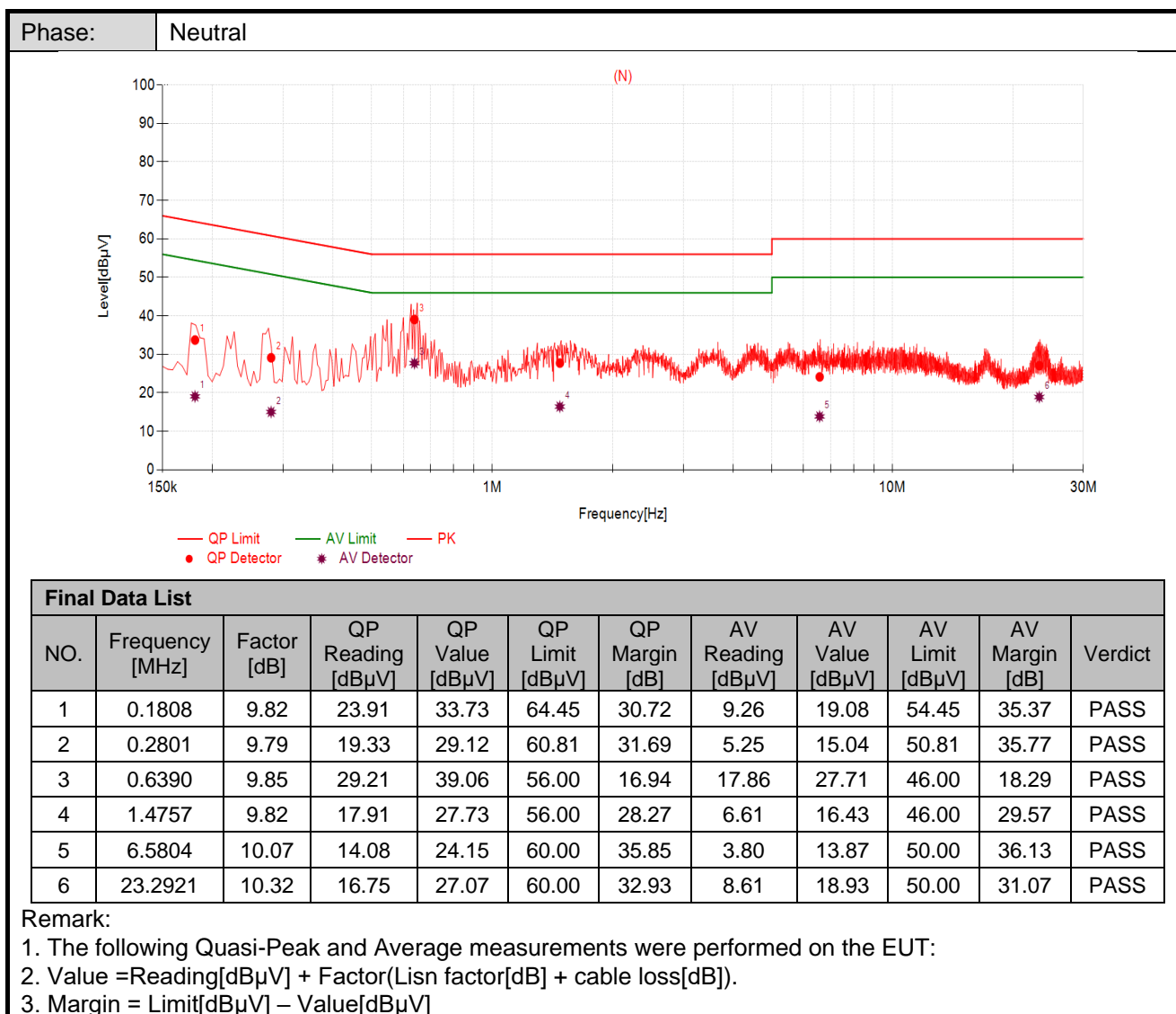
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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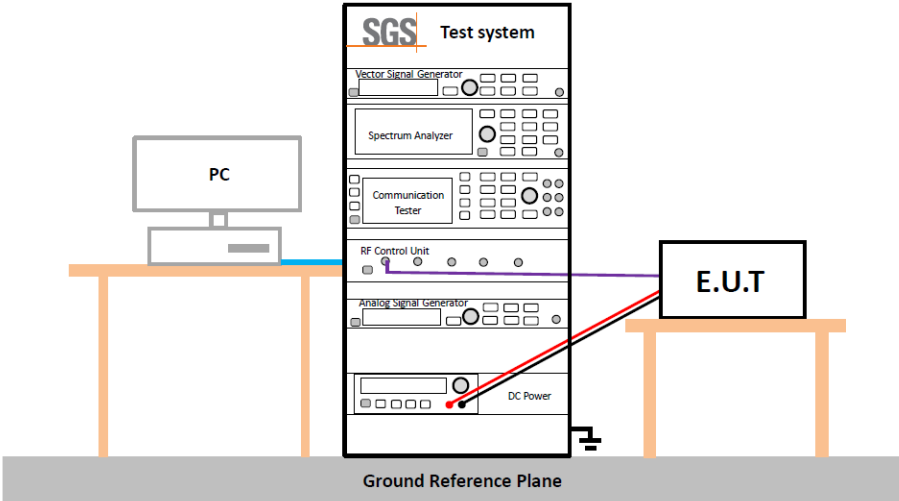


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3.3 Duty Cycle

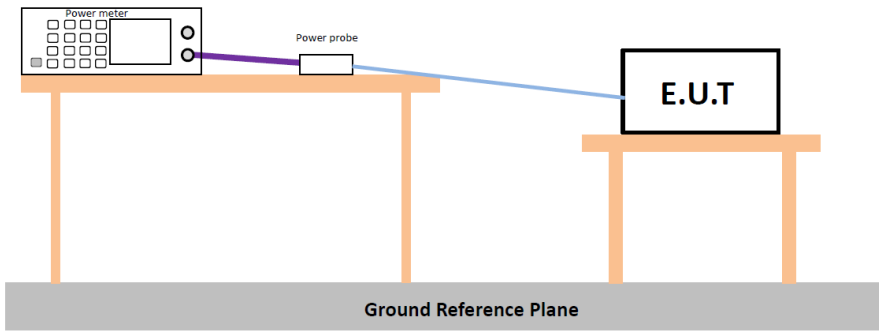
Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: Appendix	

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3.4 Conducted Output Power

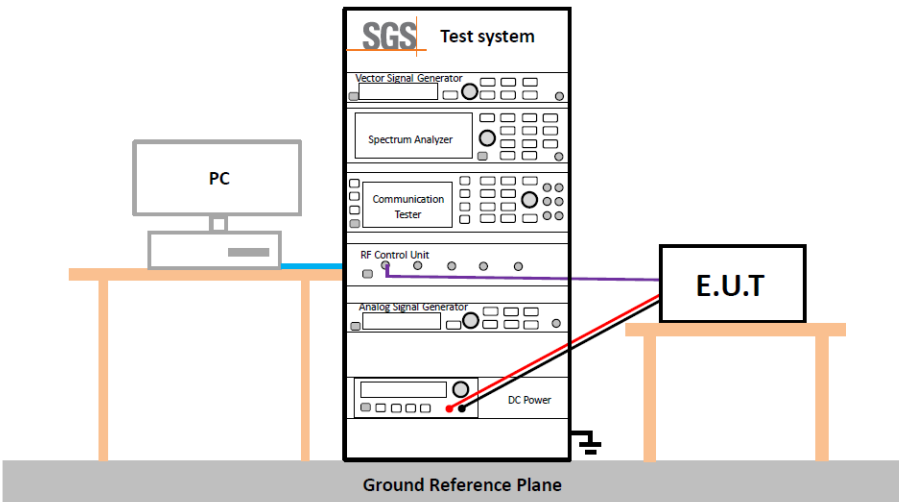
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	

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3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

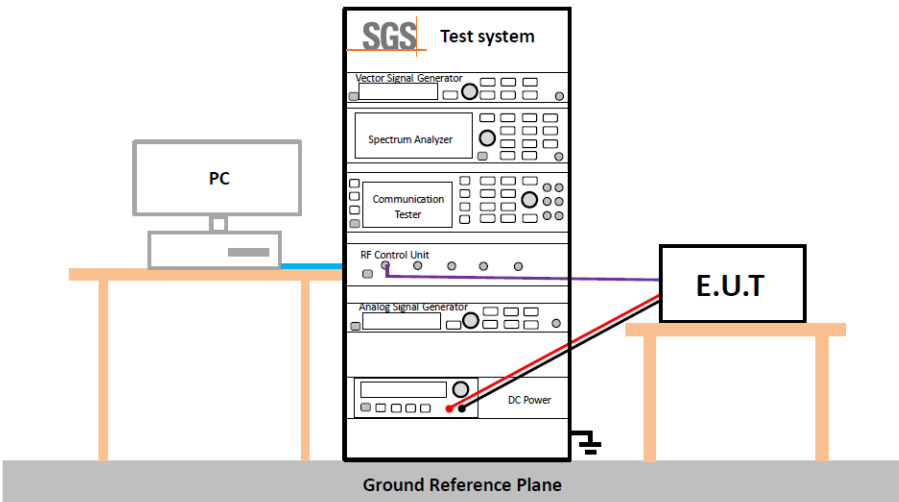
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≥ 500 kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: Appendix	

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3.6 Power Spectral Density

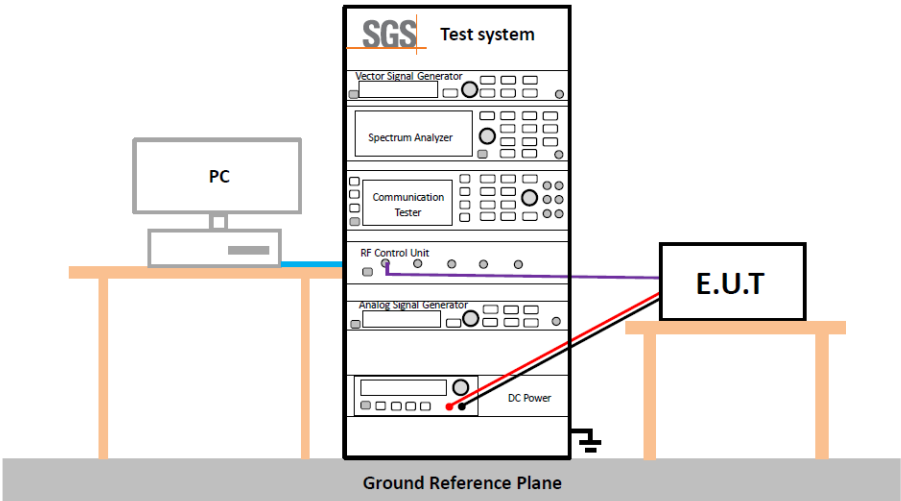
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	

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3.7 Band-edge for RF Conducted Emissions

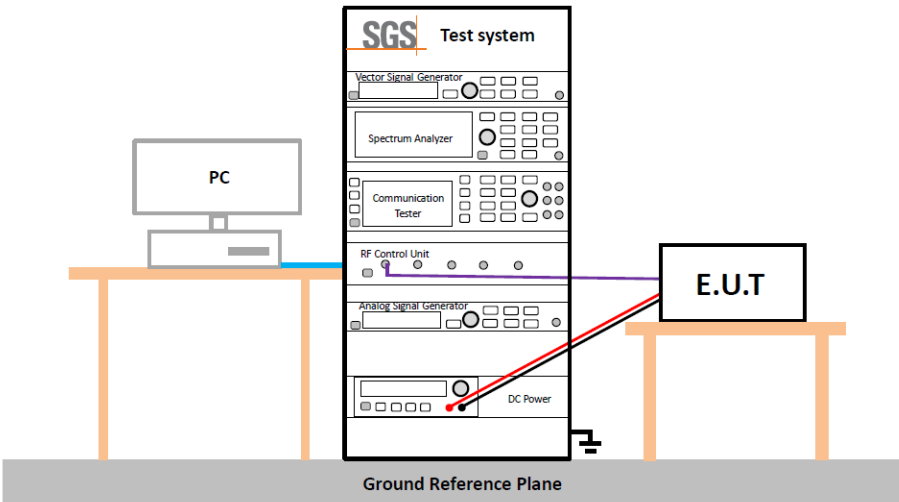
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.13.3
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details
Test Mode:	Transmitting with GFSK modulation.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	

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3.9 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:

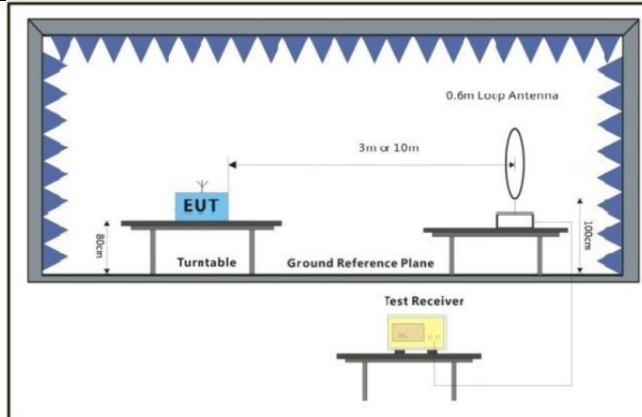


Figure 1. Below 30MHz

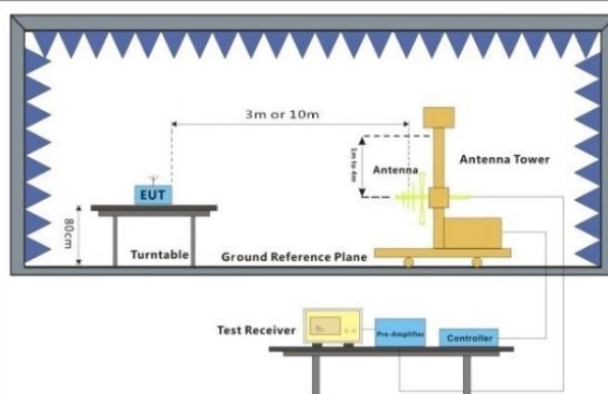


Figure 2. 30MHz to 1GHz

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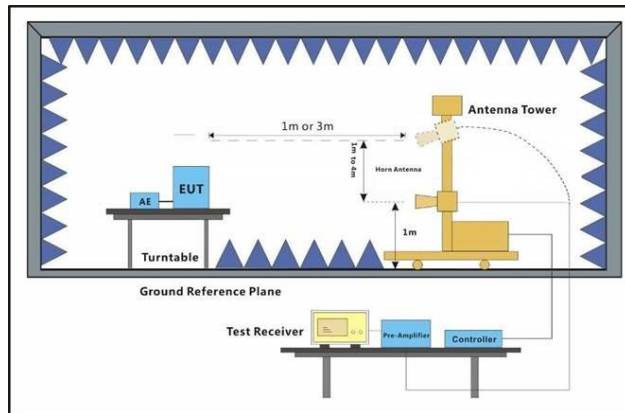


Figure 3. Above 1 GHz

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 (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 tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 $20 \cdot \log(3/1) = 9.54 \text{ dB}$.

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Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW \geq 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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
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 all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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3.10 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:

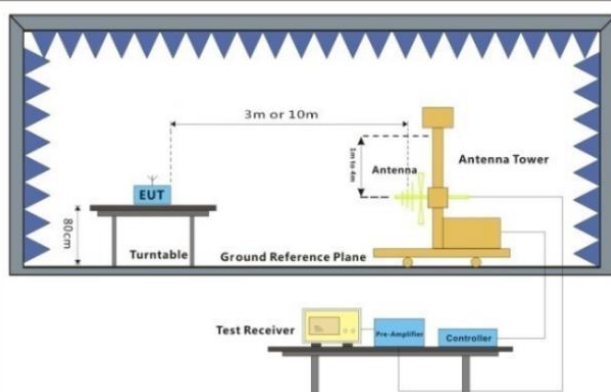


Figure 1. 30MHz to 1GHz

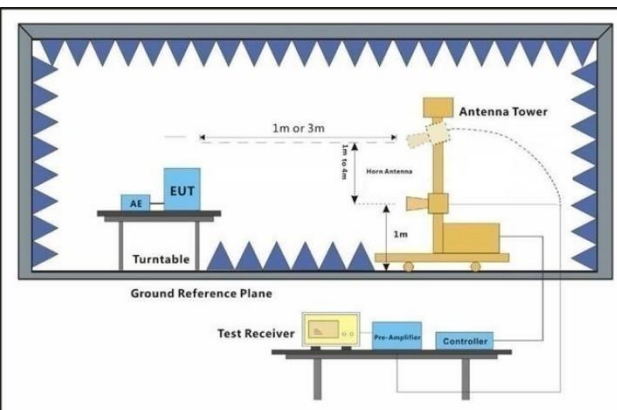


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the
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	<p>rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel</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 = Quasi-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 = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Charge + Transmitting mode.</p>
Final Test Mode:	<p>Transmitting with GFSK modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 6 for details
Test Results:	Pass
The detailed test data see: Appendix	

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

Lab A:		
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%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%
Lab C:		
No.	Item	Measurement Uncertainty
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)
2	Radiated Emission	± 4.6dB (9KHz~30MHz)
		± 4.9dB (30MHz~1GHz)
		± 4.9dB (1GHz to 6GHz)
		± 4.7dB (6GHz to 18GHz)
		± 5.26dB (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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5 Equipment List

Lab A:					
RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/9	2025/11/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/2/18	2025/2/17
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/5/8	2025/5/7
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/5/8	2025/5/7
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/5/9	2025/5/8
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/2/4	2025/2/3
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/2/4	2025/2/3
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/2/4	2025/2/3
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Router	TP-LINK	Archer BE800 (FCC ID 2AXJ4BE800)	SUWI-03-14-03	NCR	NCR
RF Control Unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR
RF Control Unit	TST	TSCB3023R2	SUWI-02-21-01	NCR	NCR
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	20242/16	2025/2/15
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18

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Lab C:					
CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2024/7/3	2025/7/2
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2024/7/3	2025/7/2

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Lab C:					
RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2024/6/4	2027/6/3
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2024/2/2	2025/2/1
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2024/5/8	2025/5/7
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28
Receiving antenna (30MHz~3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/7/28	2025/7/27
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/7/28	2025/7/27
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/7/23	2025/7/22
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2024/5/14	2025/5/13
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2024/8/29	2025/8/28
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2024/8/16	2025/8/15
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2024/8/29	2025/8/28
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR
Radio Communication Analyzer	ANRITSU	MT8821	XAW01-03-24	2024/8/16	2025/8/15
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2024/5/23	2026/5/22

Remark: NCR=No Calibration Requirement.

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6 Photographs - Setup Photos

Refer to Appendix A.2 BT&WLAN Setup Photos.

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7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.395	0.626	63.10	2.00	0.03
		2440	0.395	0.626	63.10	2.00	0.03
		2480	0.395	0.625	63.20	1.99	0.03
2M	SISO	2402	0.208	0.625	33.28	4.78	0.03
		2440	0.208	0.625	33.28	4.78	0.03
		2480	0.208	0.625	33.28	4.78	0.03

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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.032	/	Pass
		2440	1	1.027	/	Pass
		2480	1	1.025	/	Pass
2M	SISO	2402	1	2.057	/	Pass
		2440	1	2.049	/	Pass
		2480	1	2.069	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.661	≥ 0.5	Pass
		2440	1	0.669	≥ 0.5	Pass
		2480	1	0.668	≥ 0.5	Pass
2M	SISO	2402	1	1.153	≥ 0.5	Pass
		2440	1	1.149	≥ 0.5	Pass
		2480	1	1.156	≥ 0.5	Pass

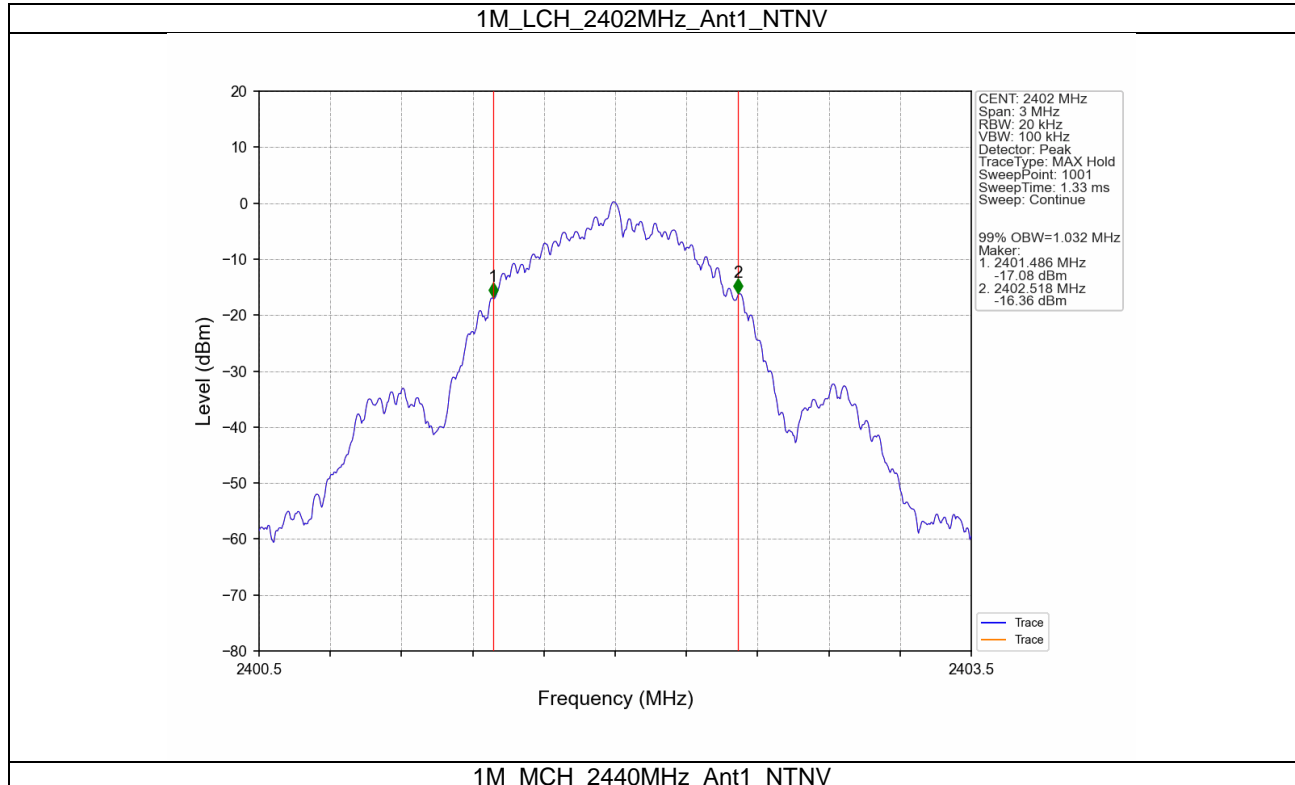
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2.2 Test Graph

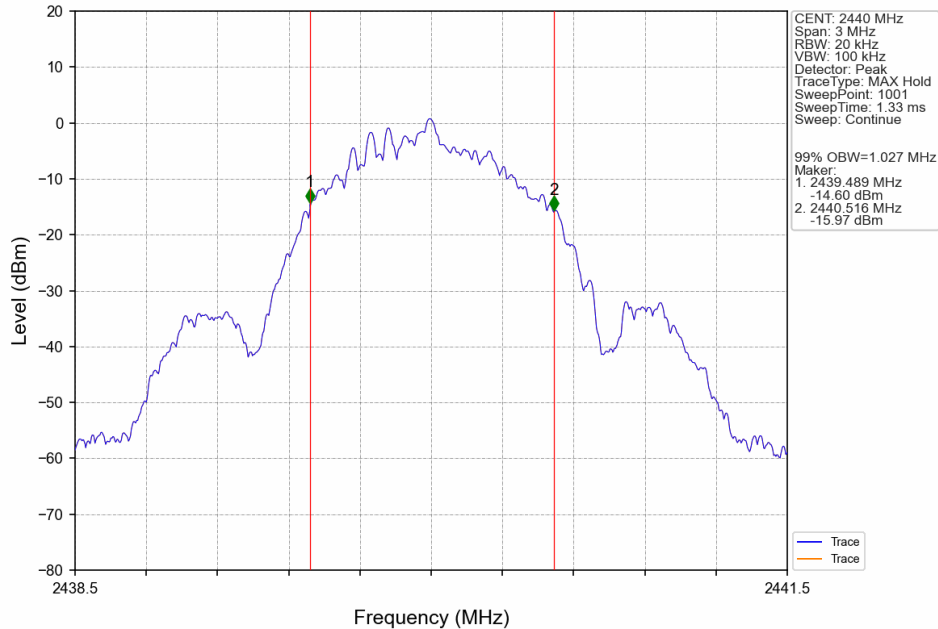
2.2.1 OBW



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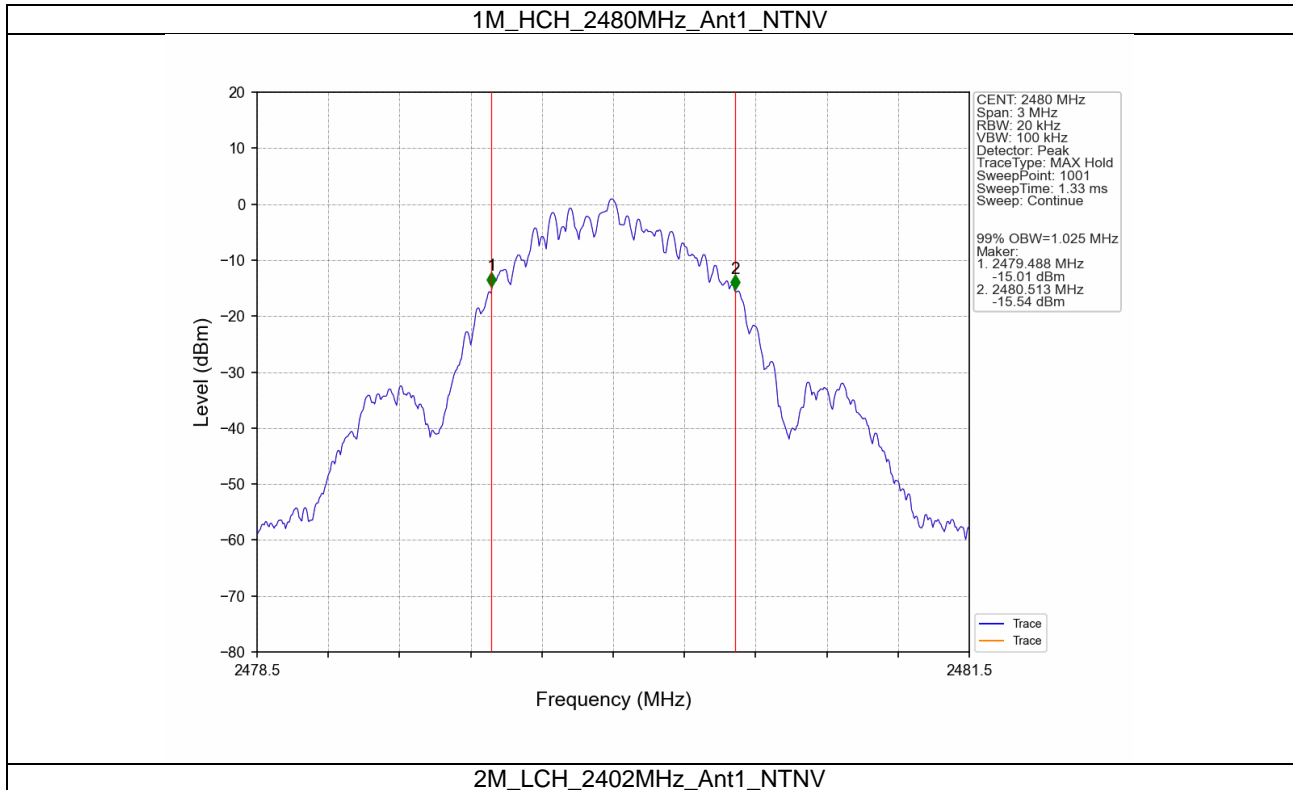
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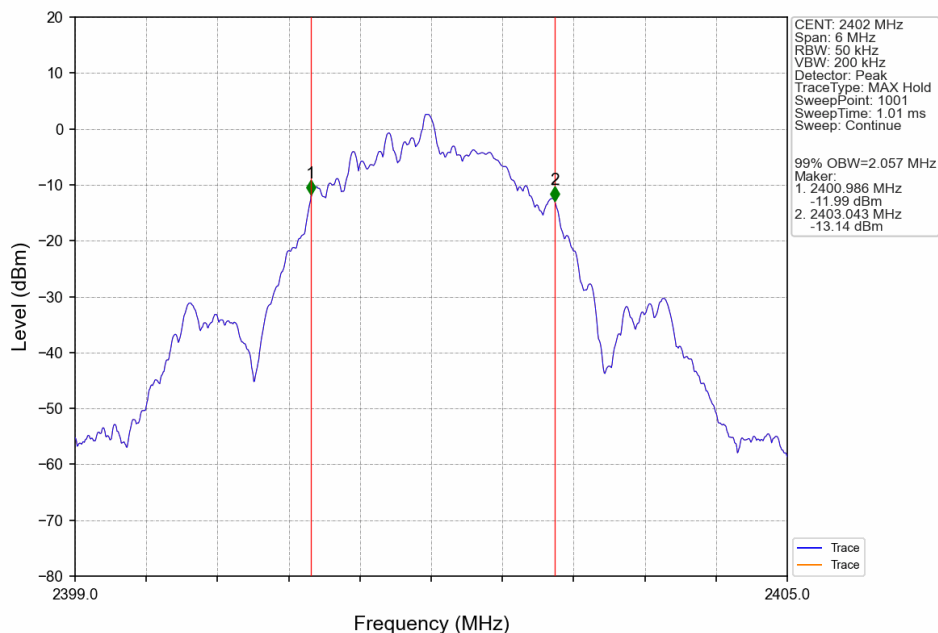
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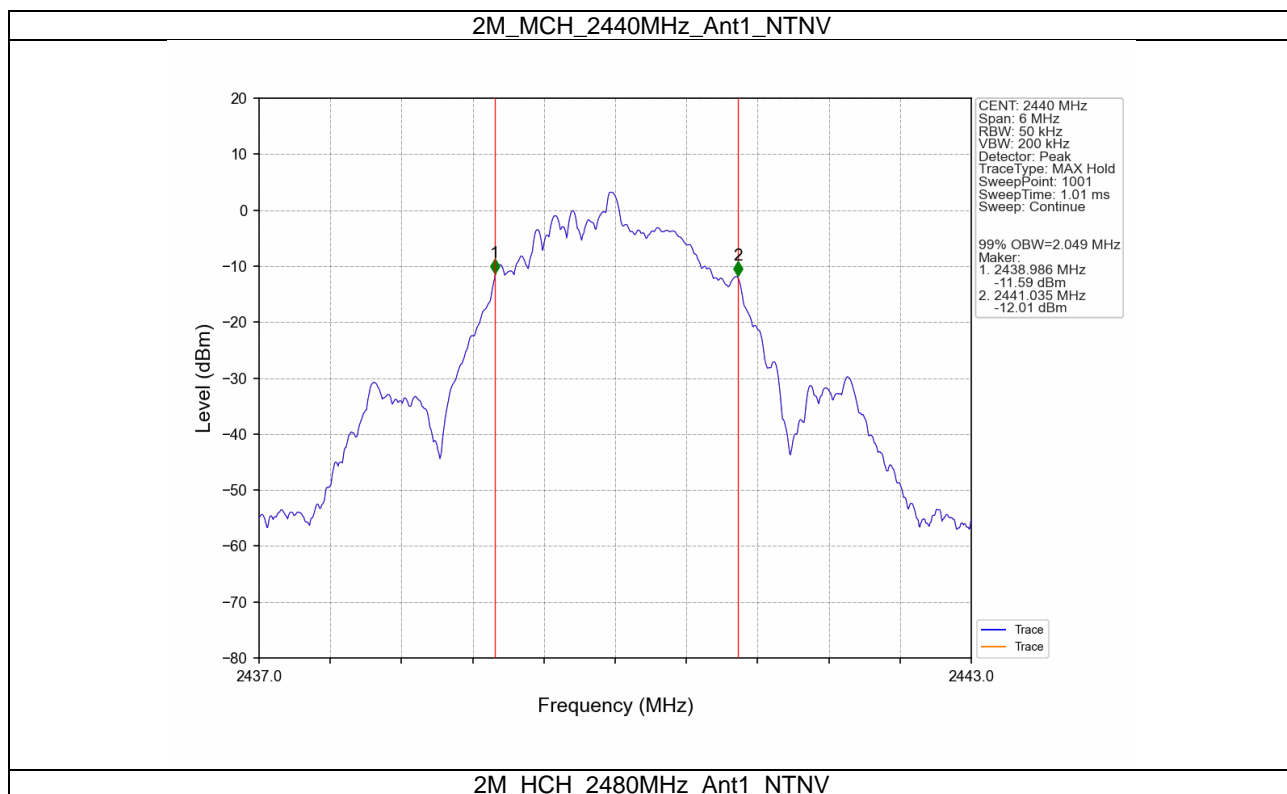
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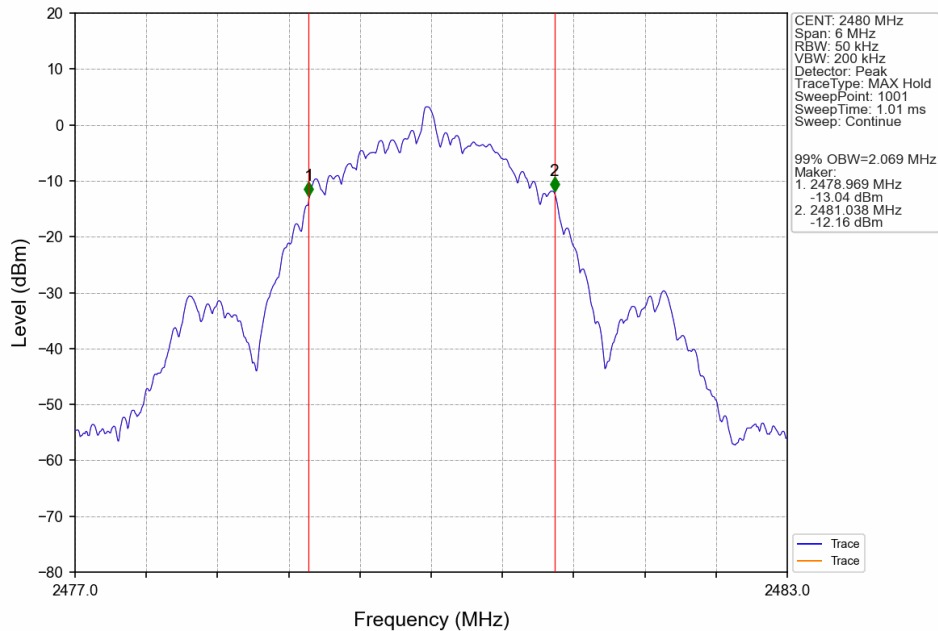
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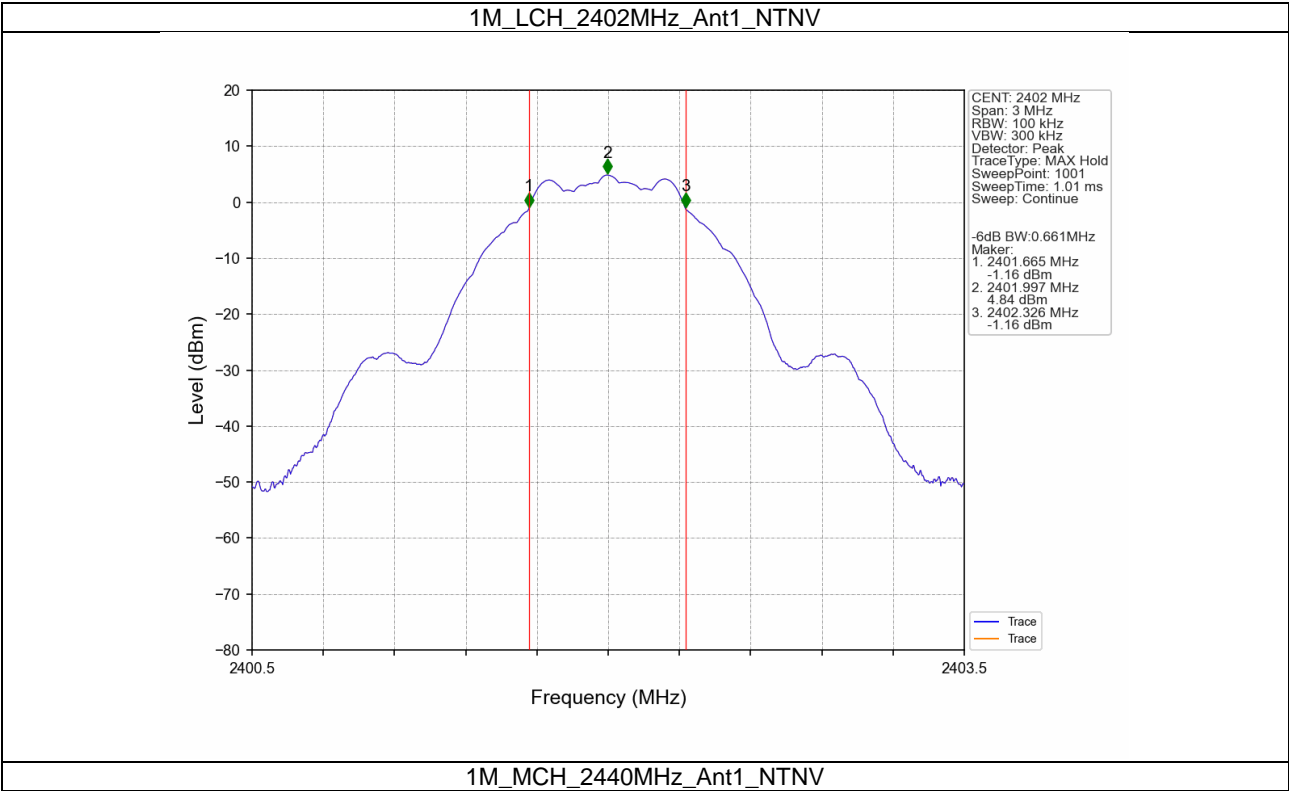


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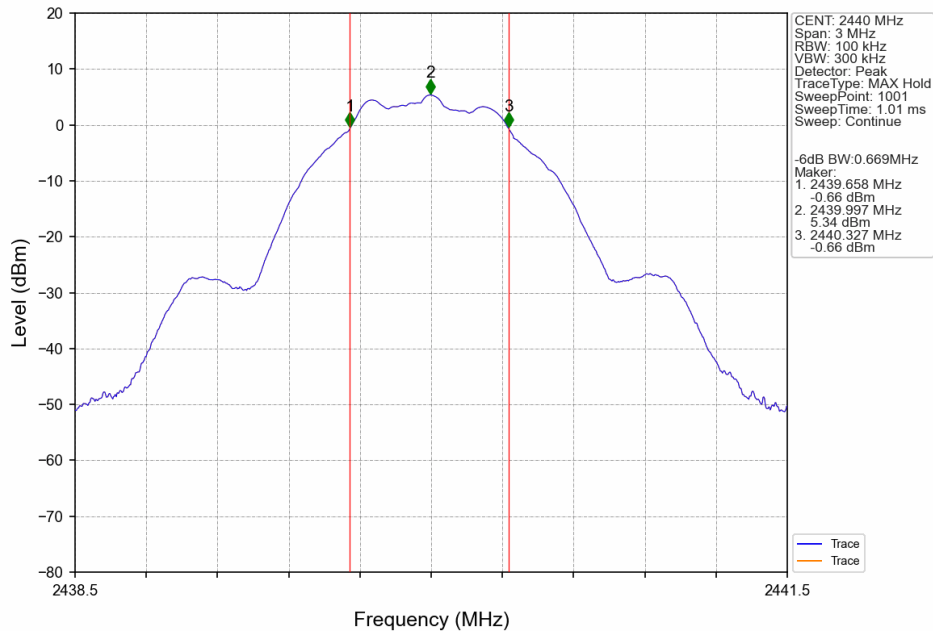
2.2.2 6dB BW



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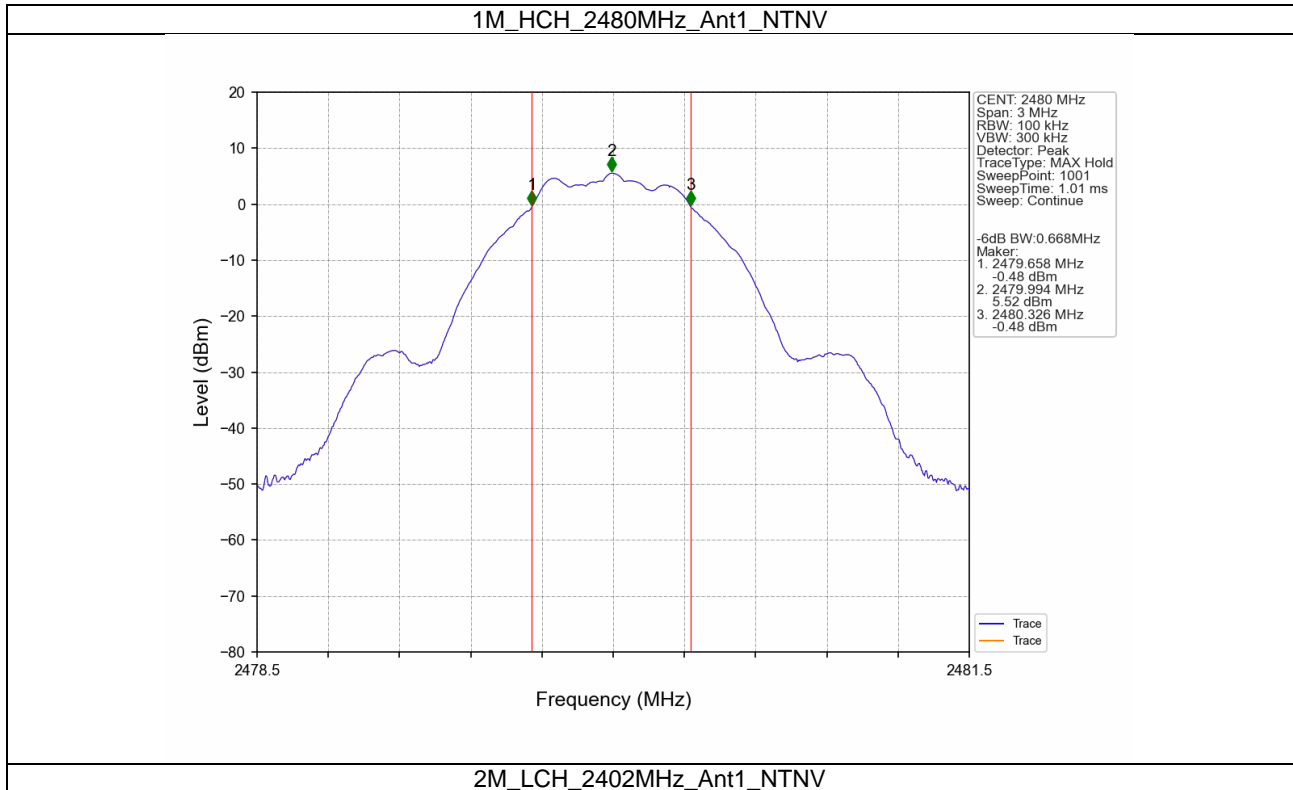
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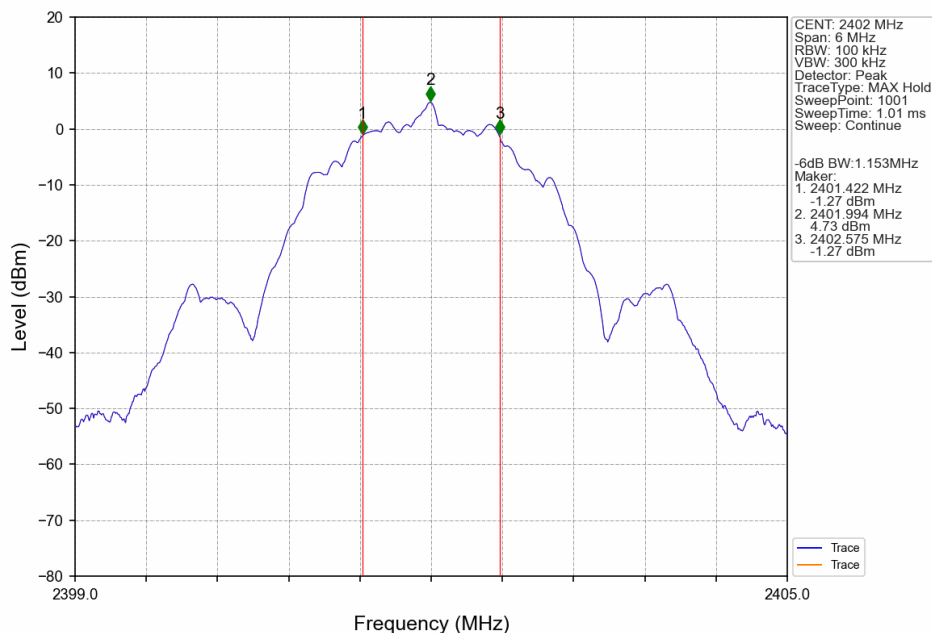
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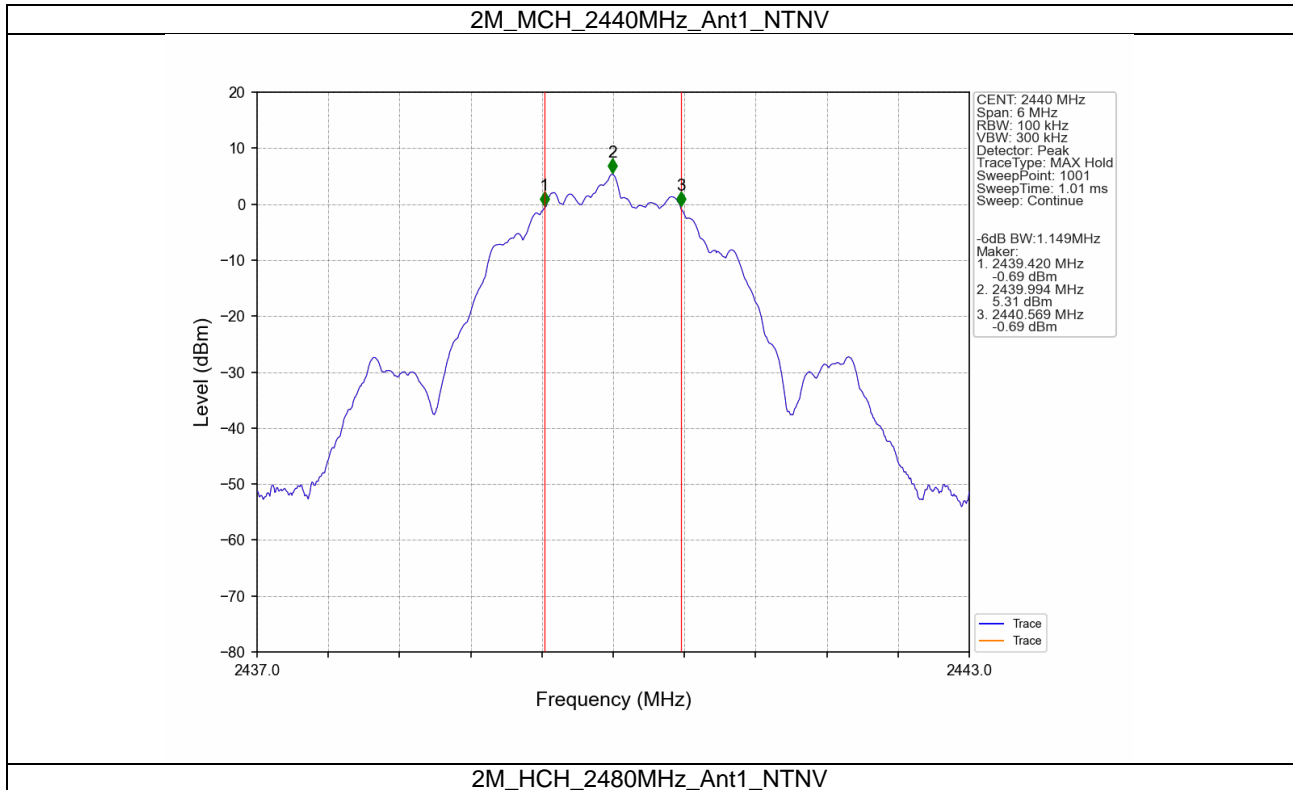
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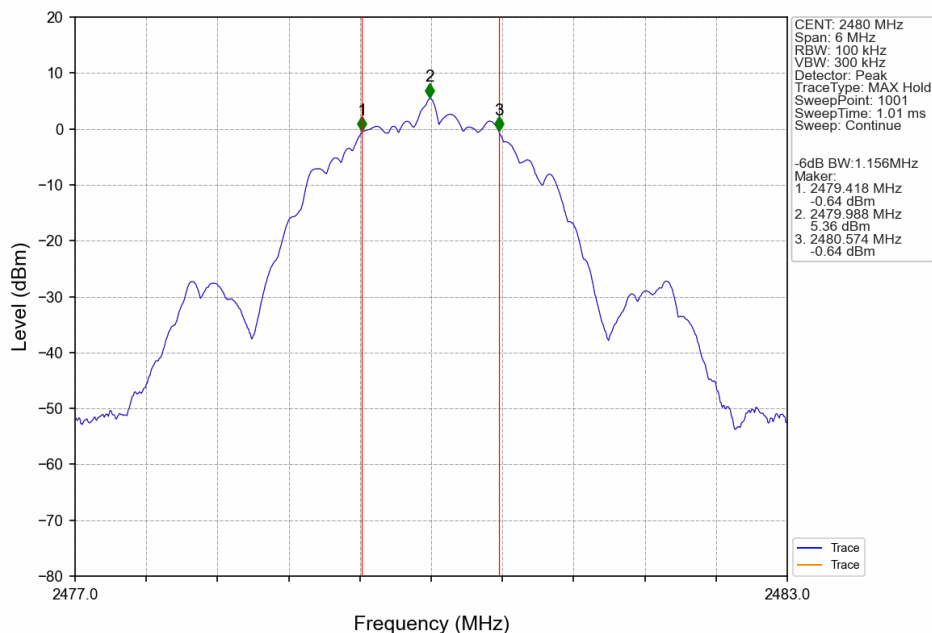
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	4.96	<=30	Pass
		2440	5.43	<=30	Pass
		2480	5.60	<=30	Pass
2M	SISO	2402	4.98	<=30	Pass
		2440	5.53	<=30	Pass
		2480	5.59	<=30	Pass

Note1: Antenna Gain: Ant1: 2.10dBi;

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-11.57	<=8	Pass
		2440	-9.57	<=8	Pass
		2480	-9.88	<=8	Pass
2M	SISO	2402	-12.87	<=8	Pass
		2440	-11.37	<=8	Pass
		2480	-11.88	<=8	Pass

Note1: Antenna Gain: Ant1: 2.10dBi;

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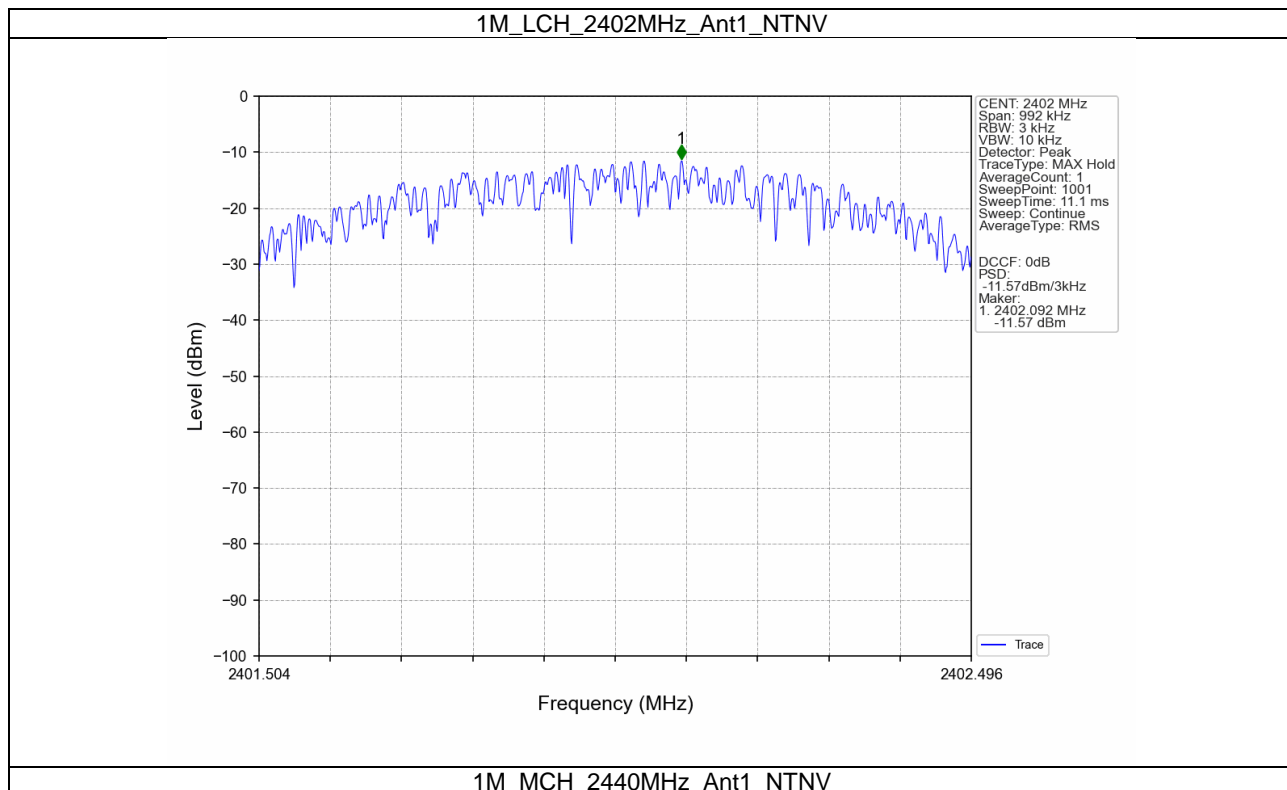
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4.2 Test Graph

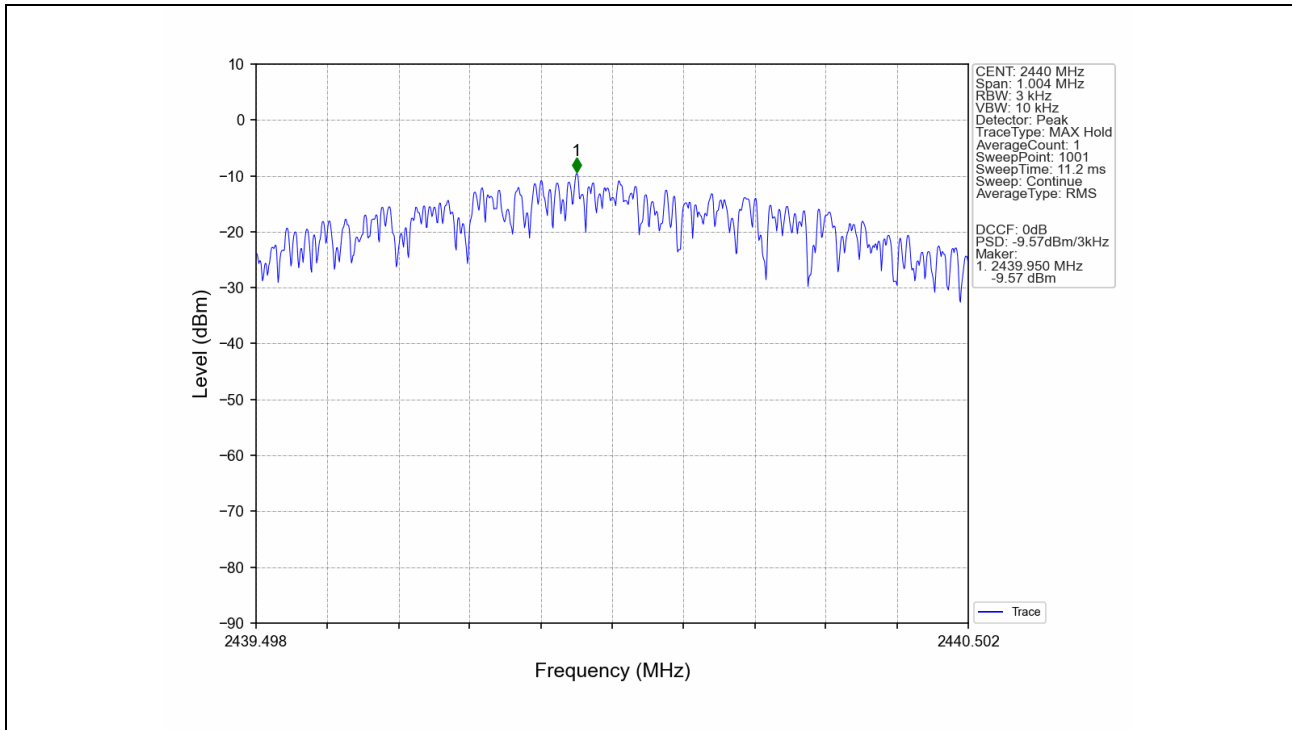
4.2.1 PSD



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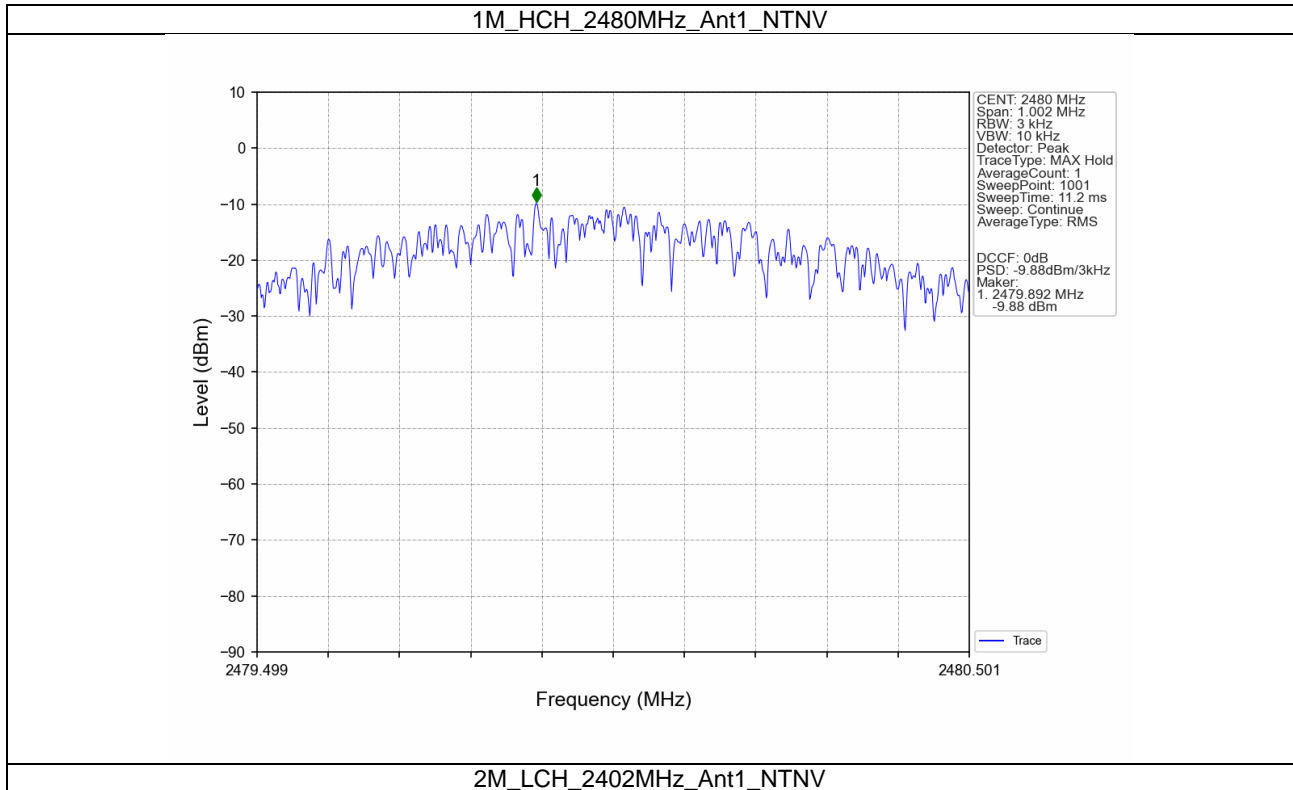
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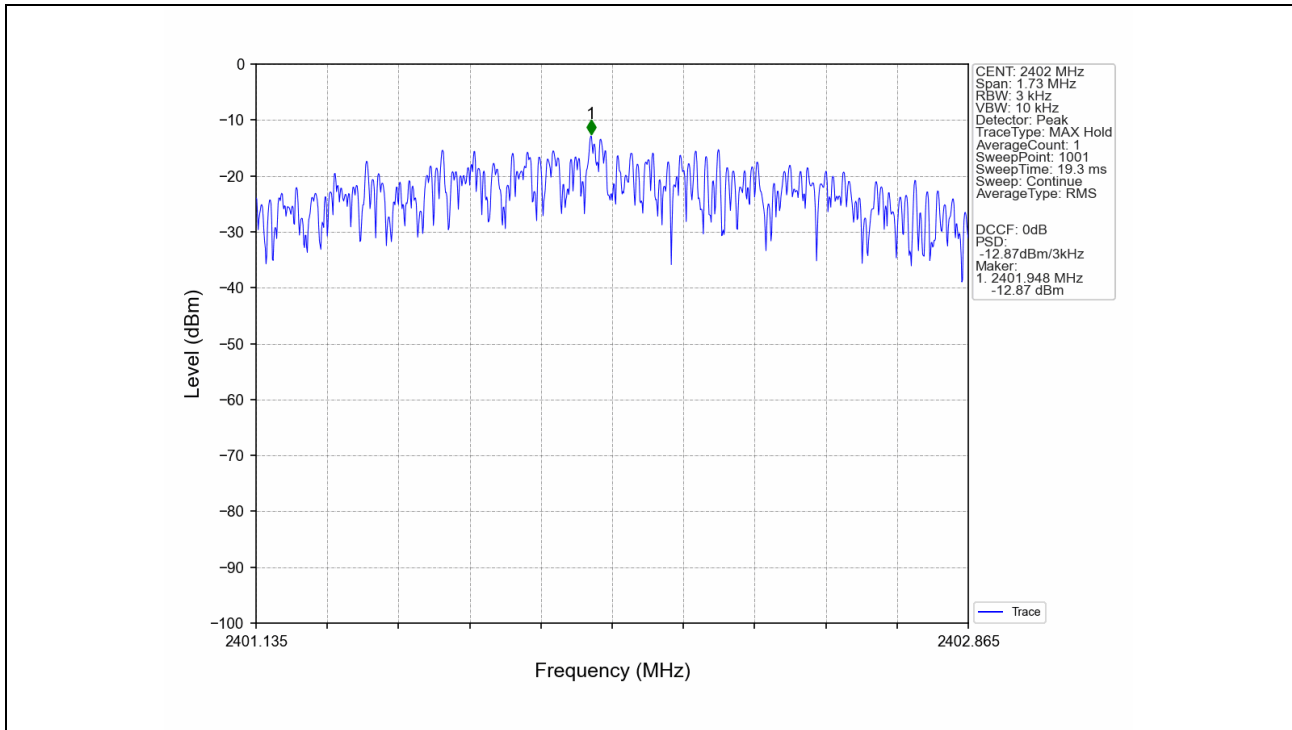
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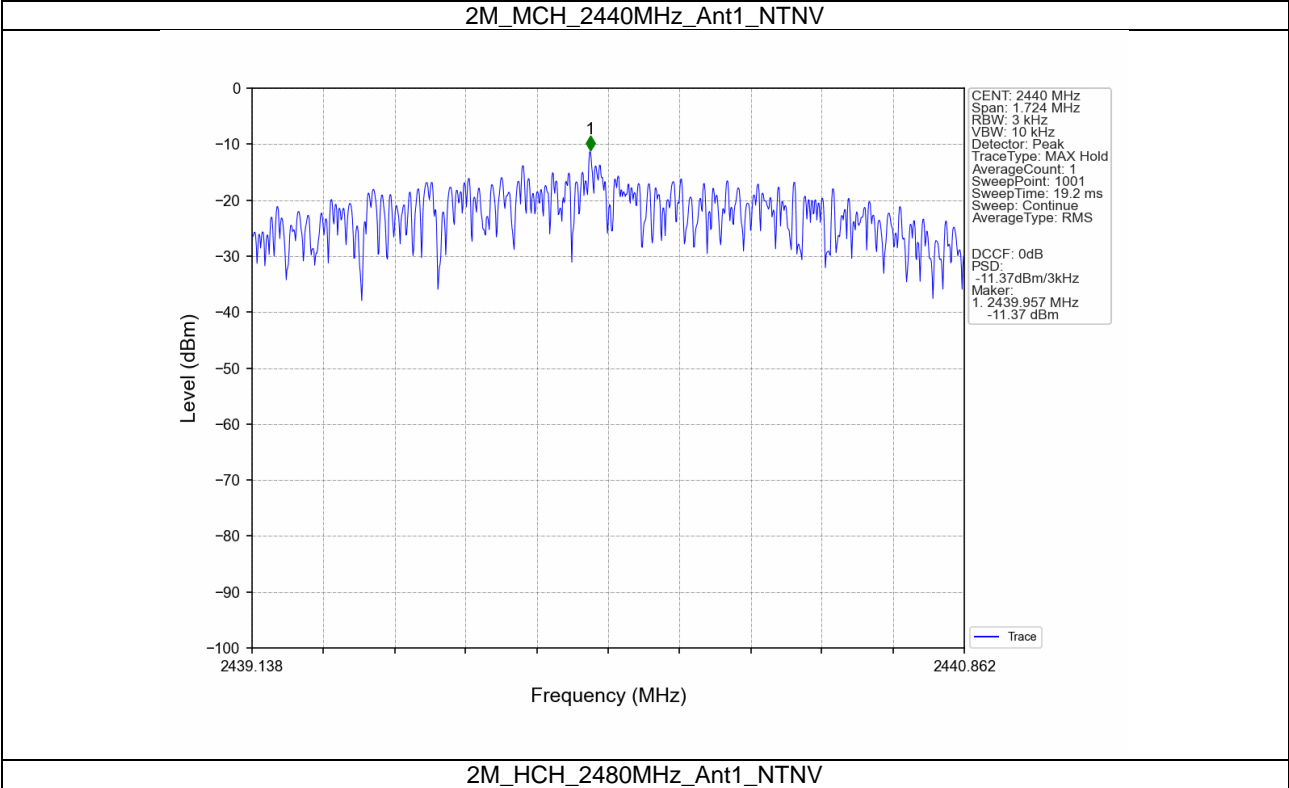
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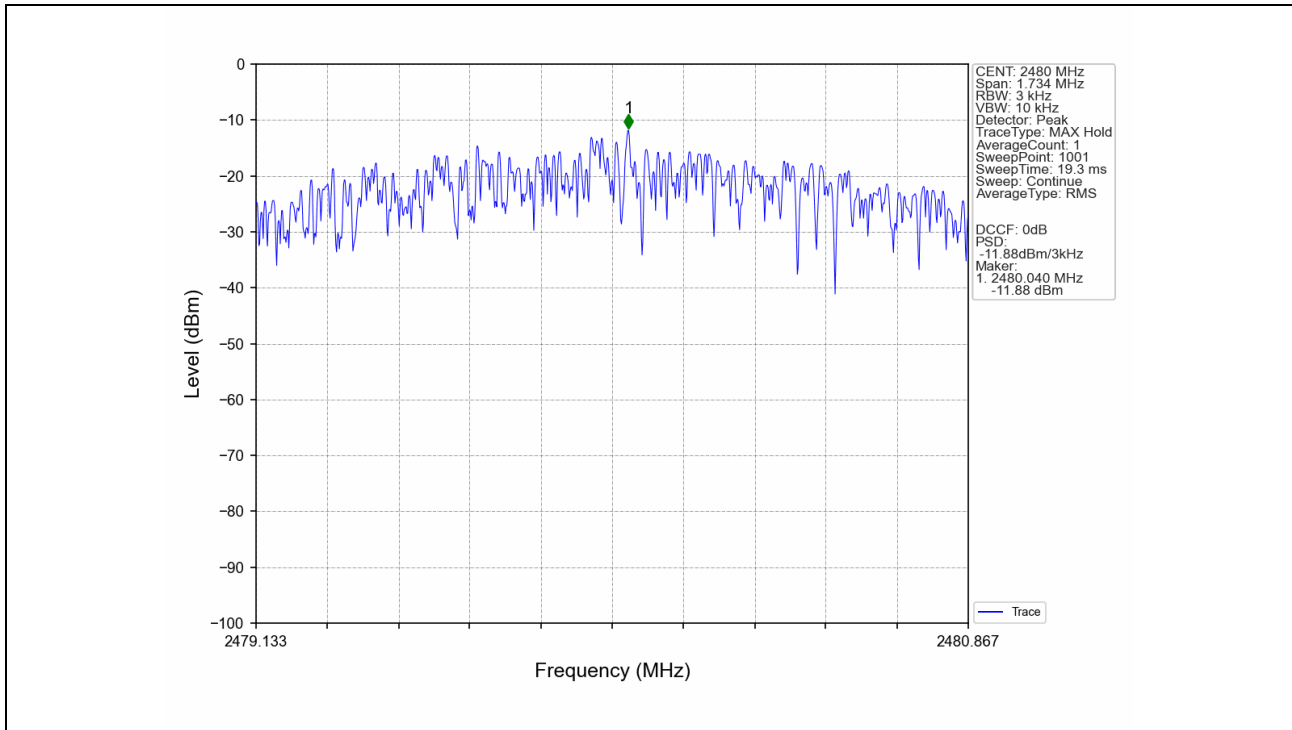
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	4.87
		2440	1	5.38
		2480	1	5.55
2M	SISO	2402	1	4.78
		2440	1	5.34
		2480	1	5.40

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.55	-14.45	Pass
		2440	1	5.55	-14.45	Pass
		2480	1	5.55	-14.45	Pass
2M	SISO	2402	1	5.40	-14.60	Pass
		2440	1	5.40	-14.60	Pass
		2480	1	5.40	-14.60	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.

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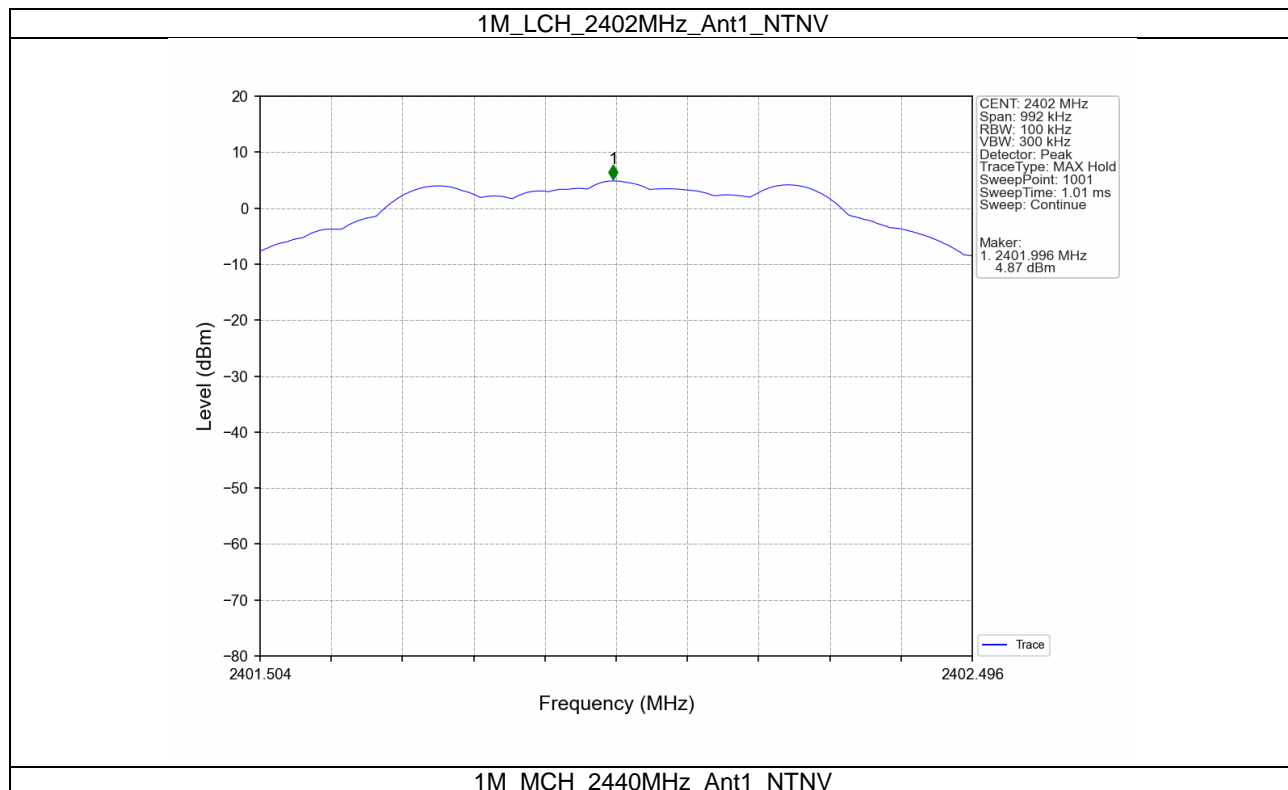
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5.2 Test Graph

5.2.1 Ref



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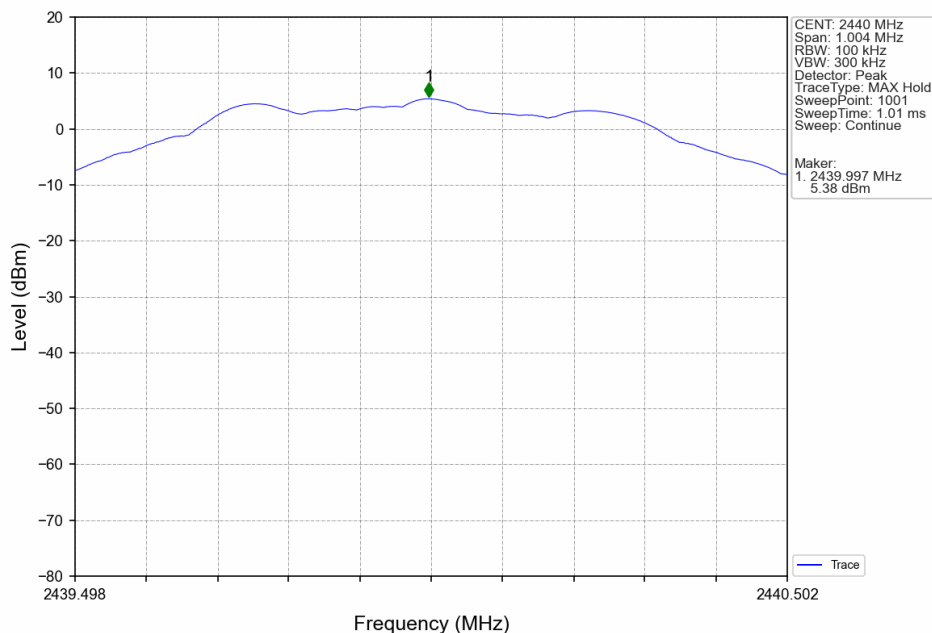
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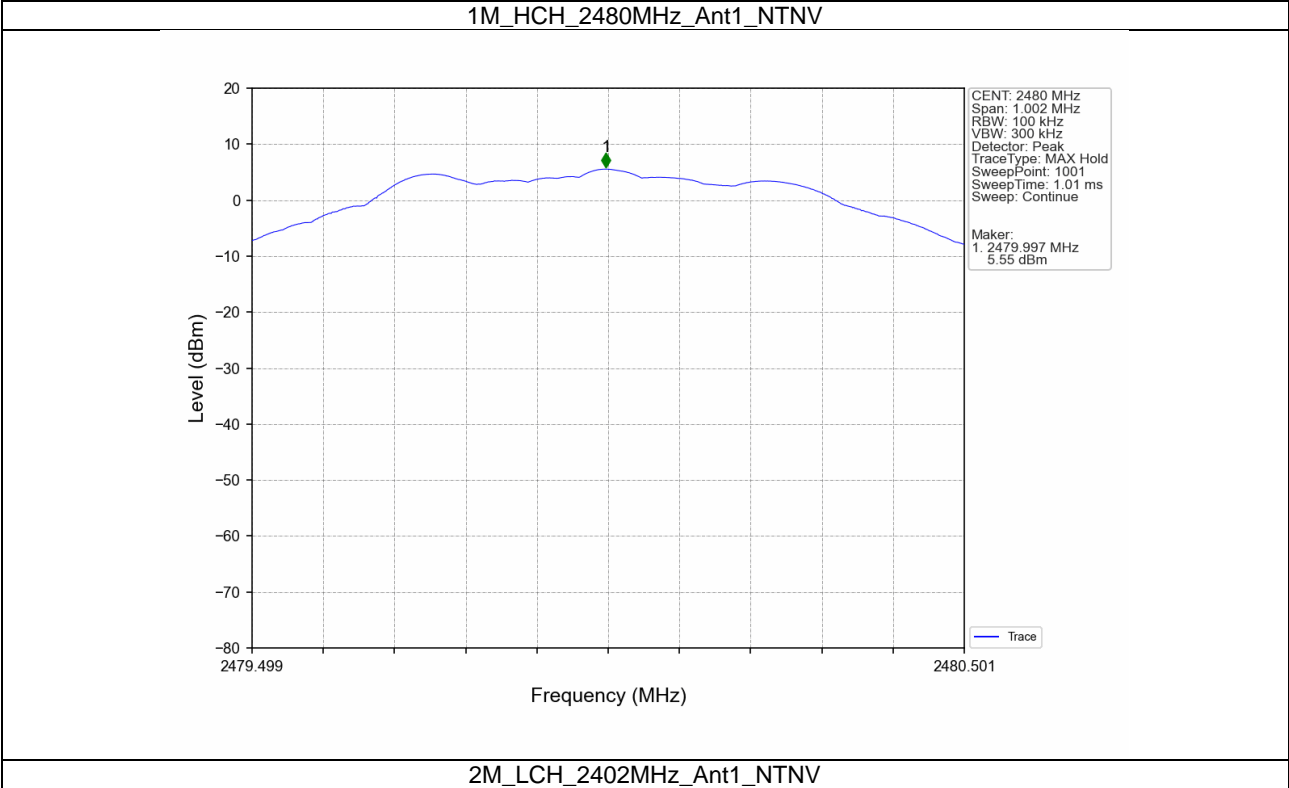
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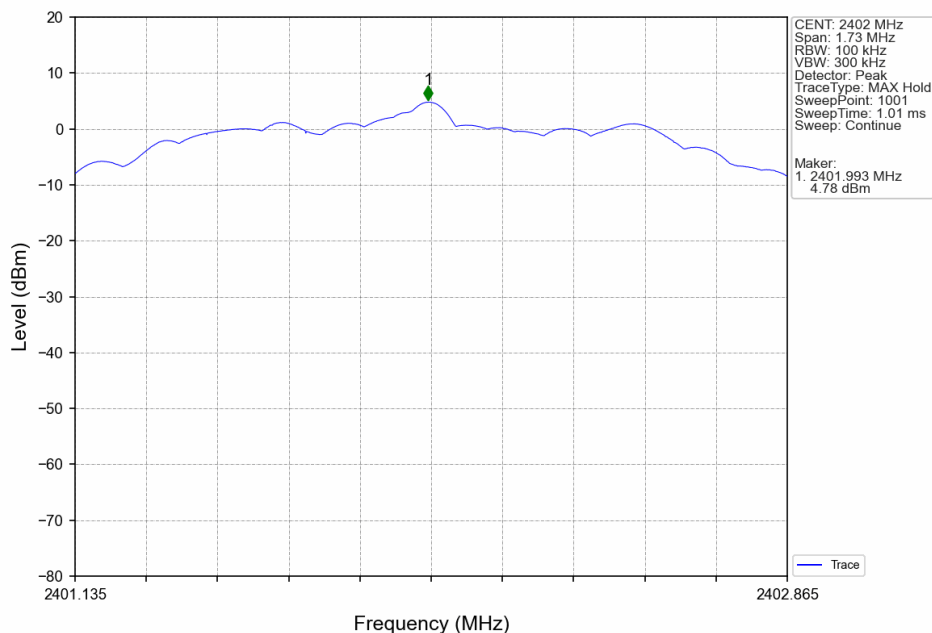
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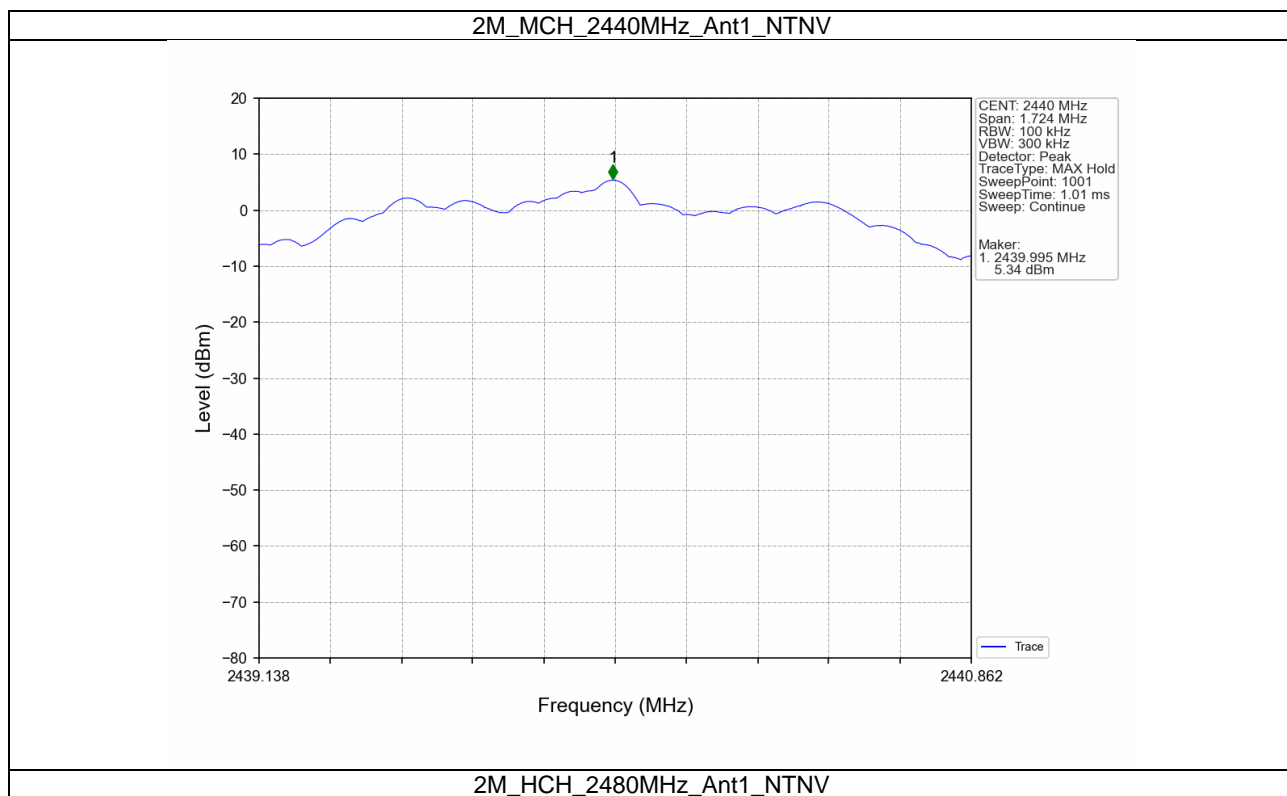


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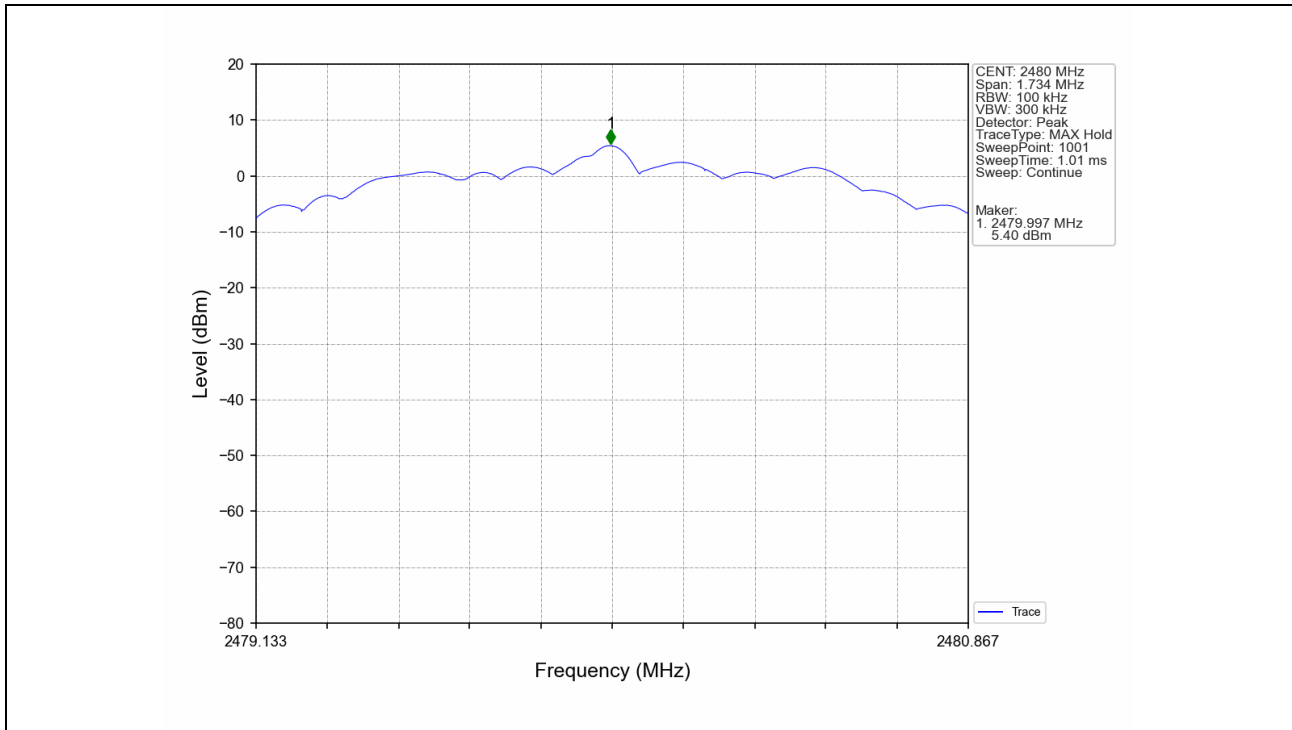
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Wireless Laboratory

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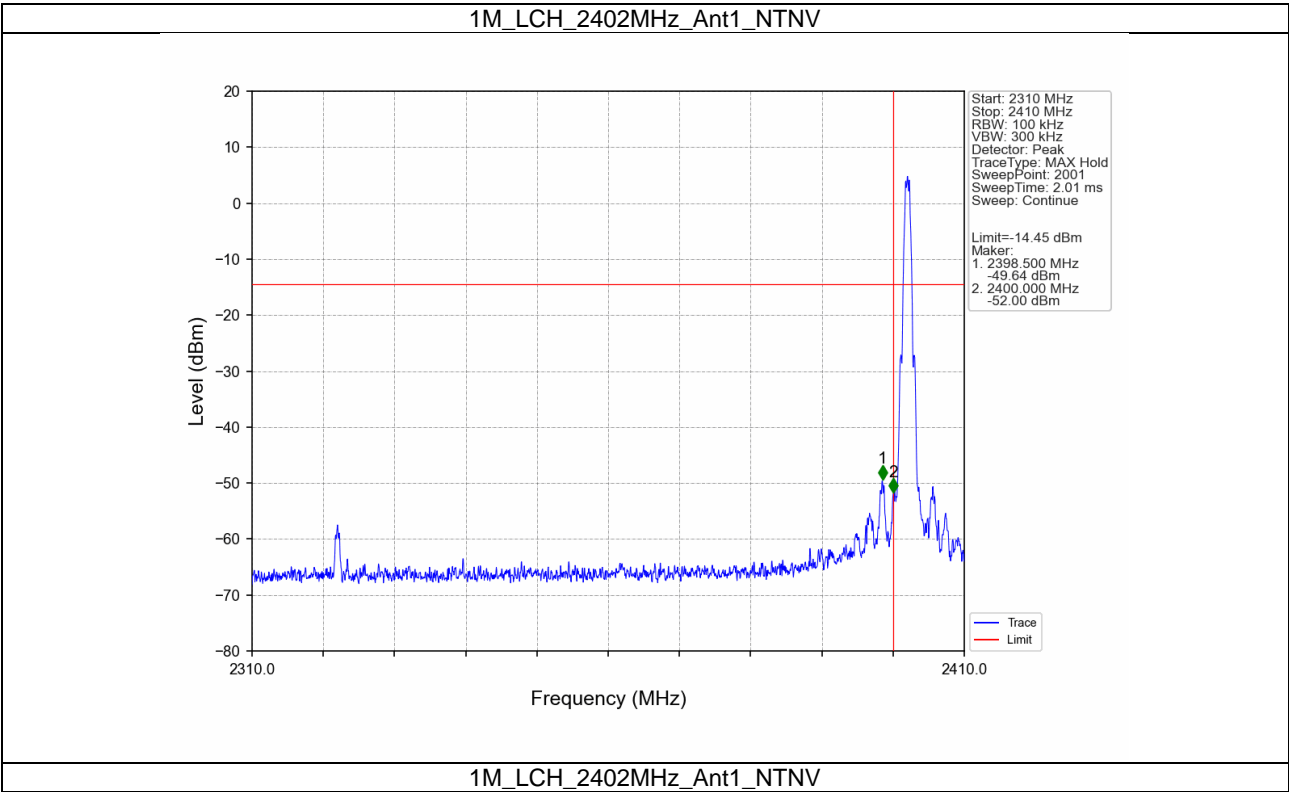


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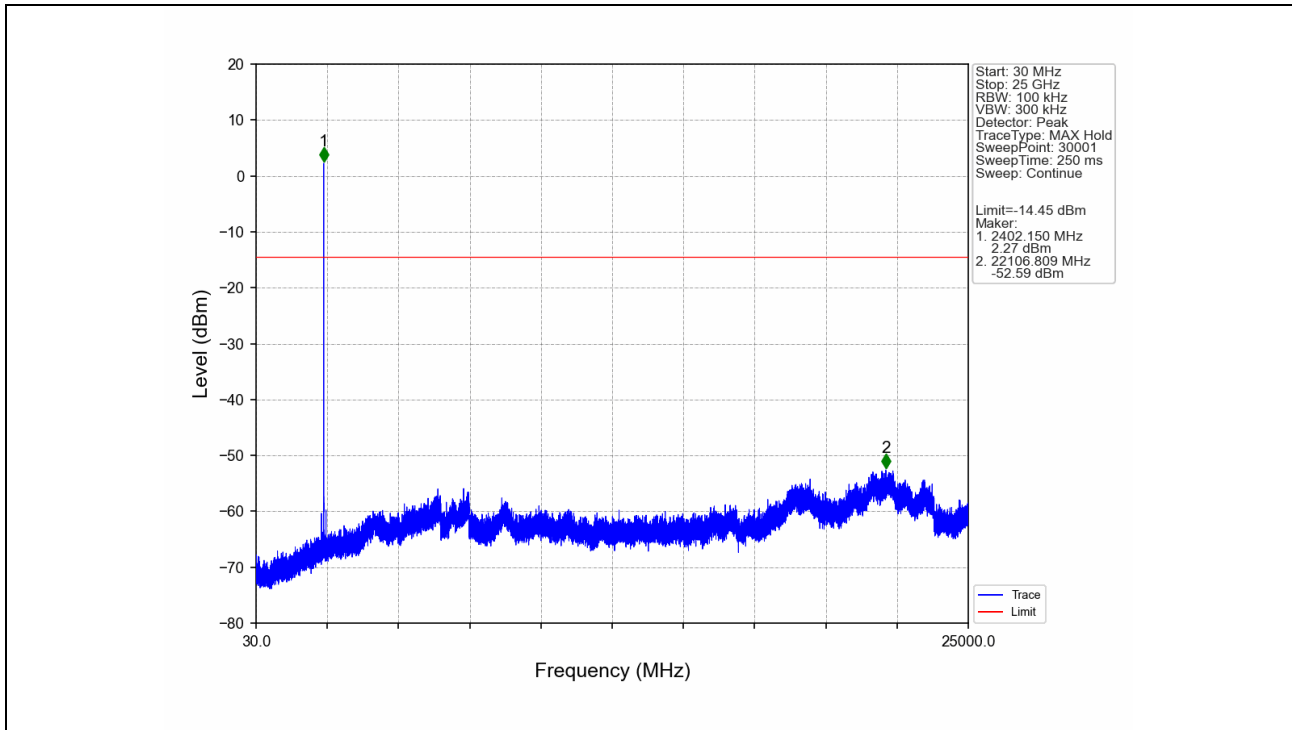
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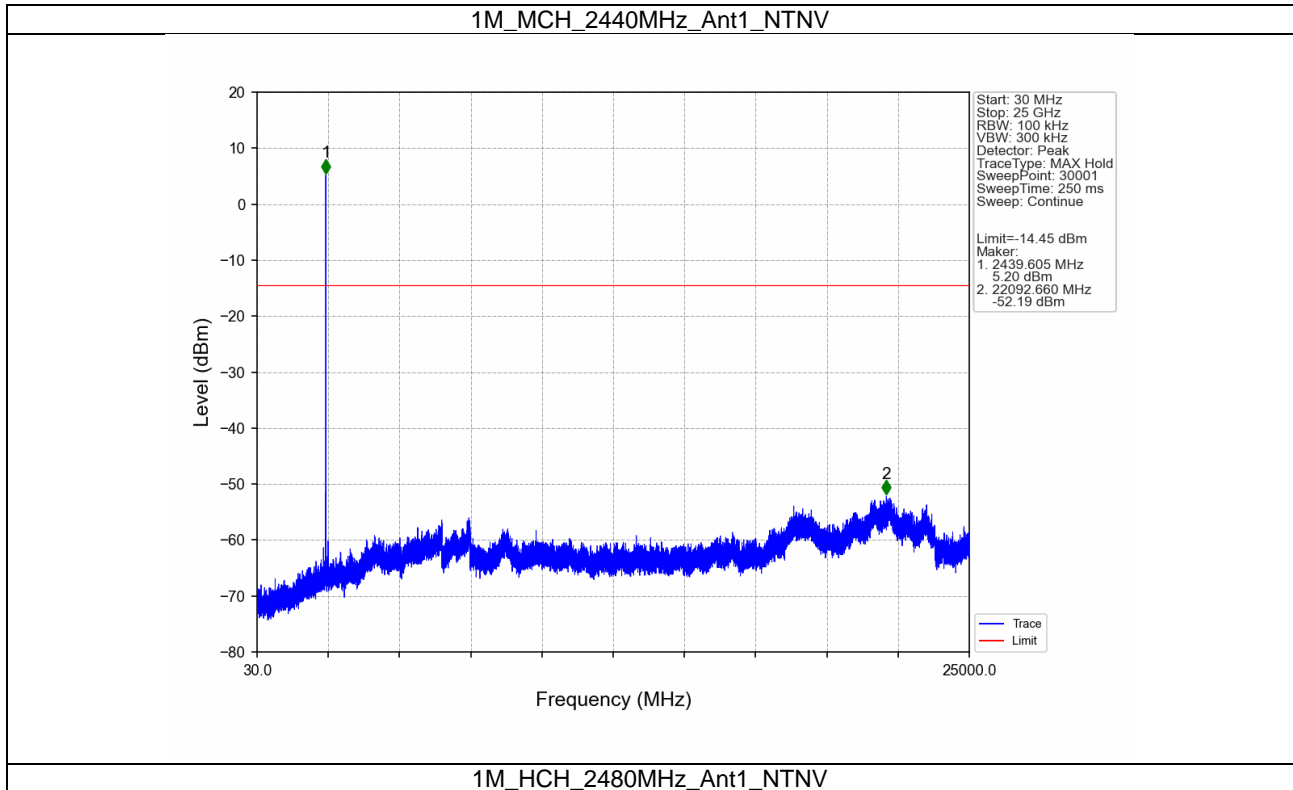
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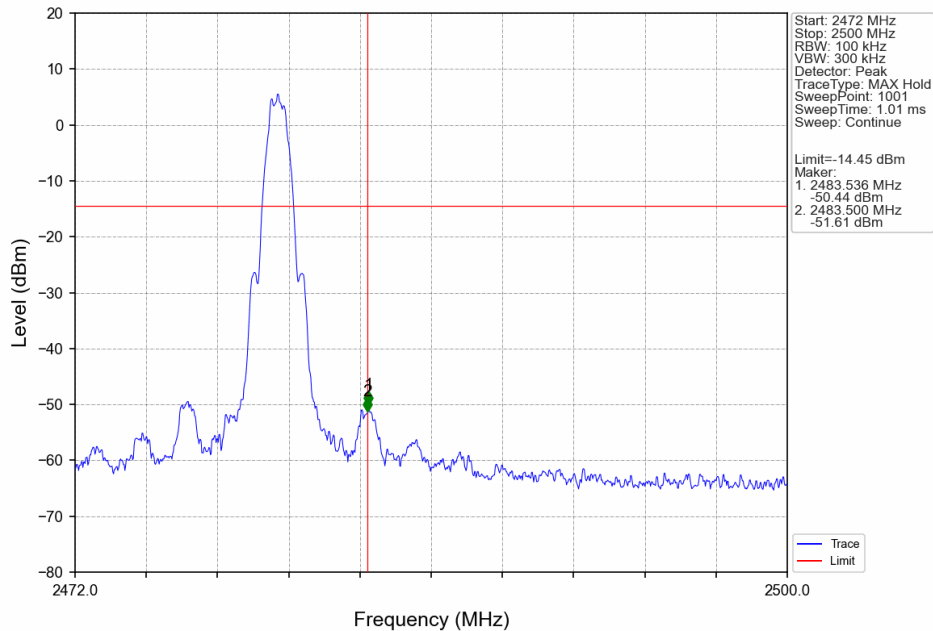
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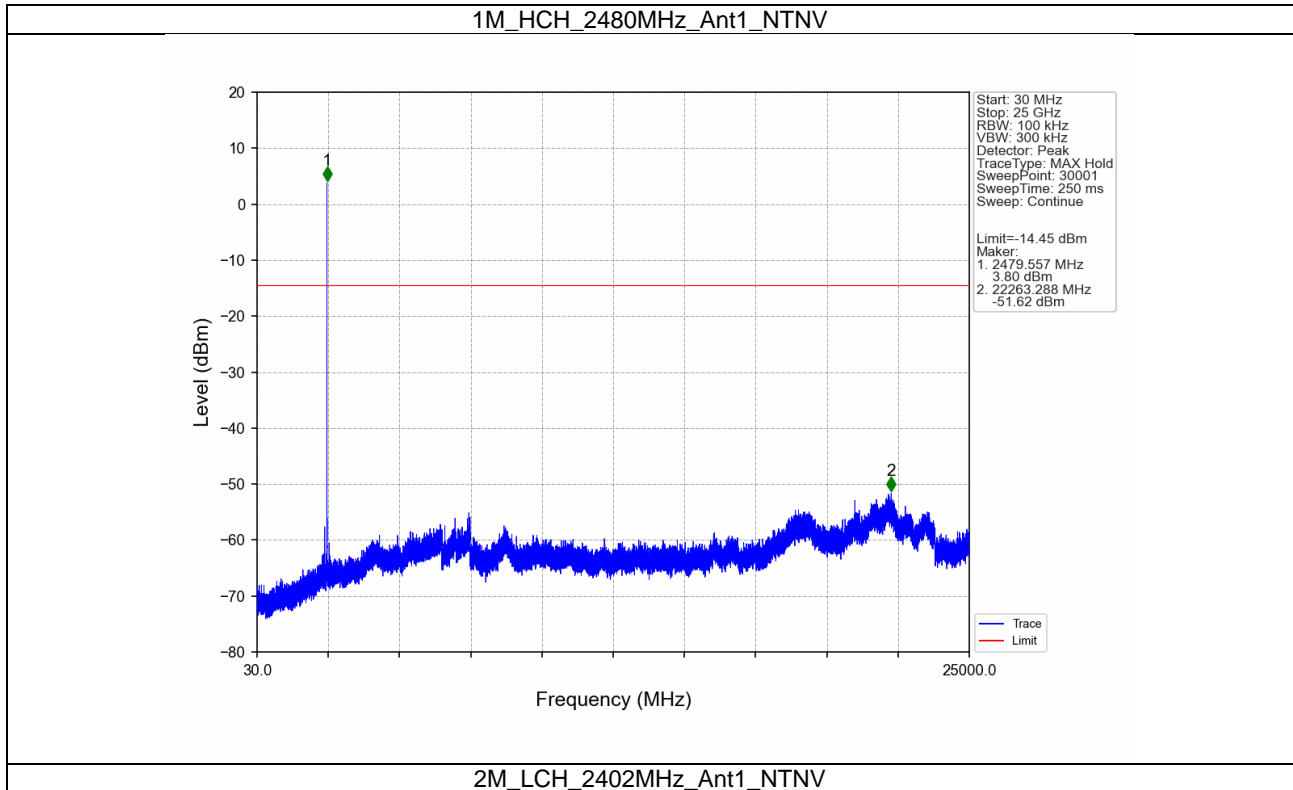
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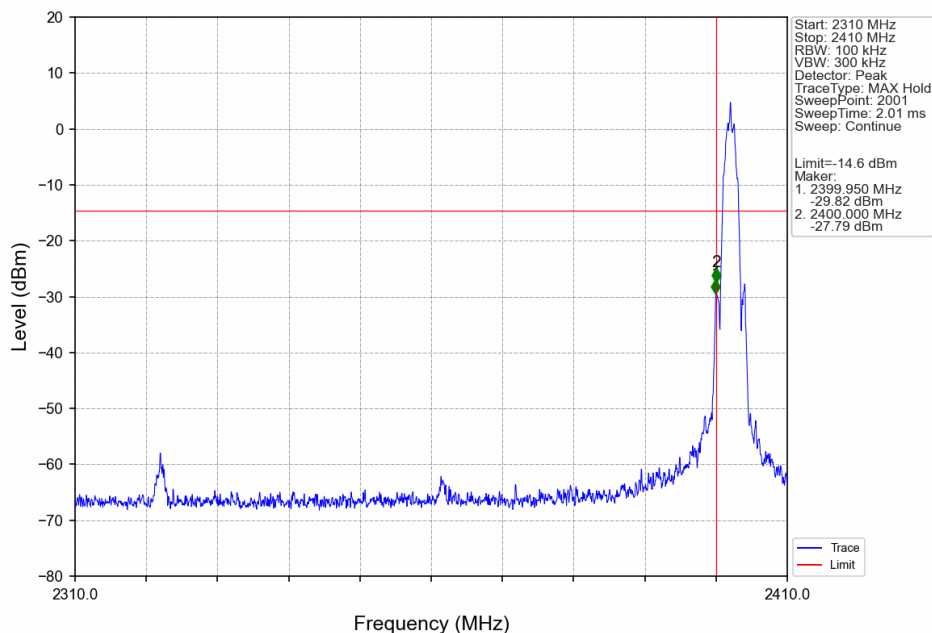
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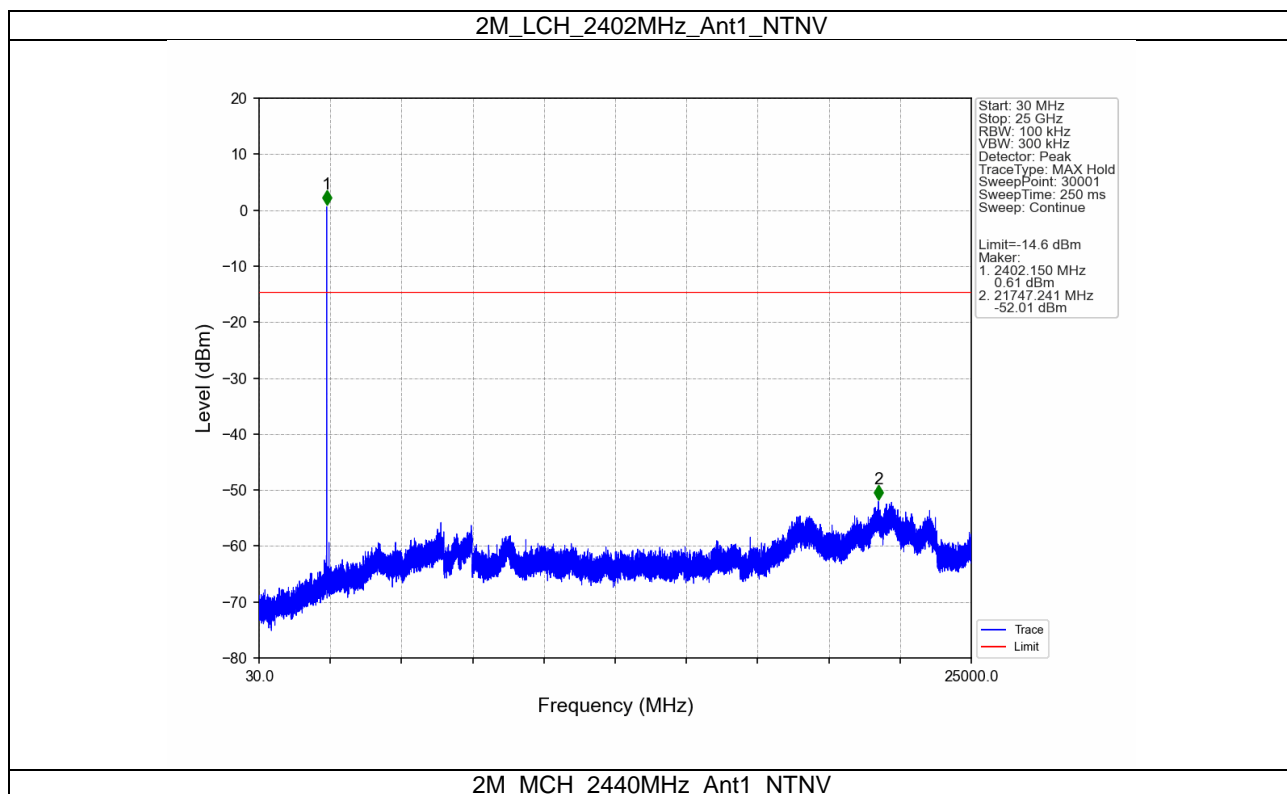
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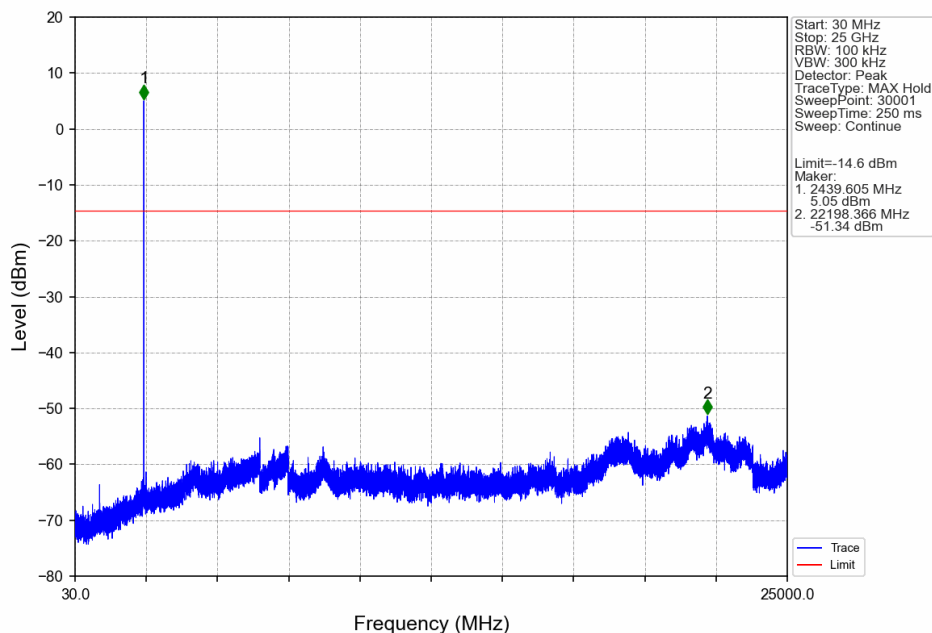
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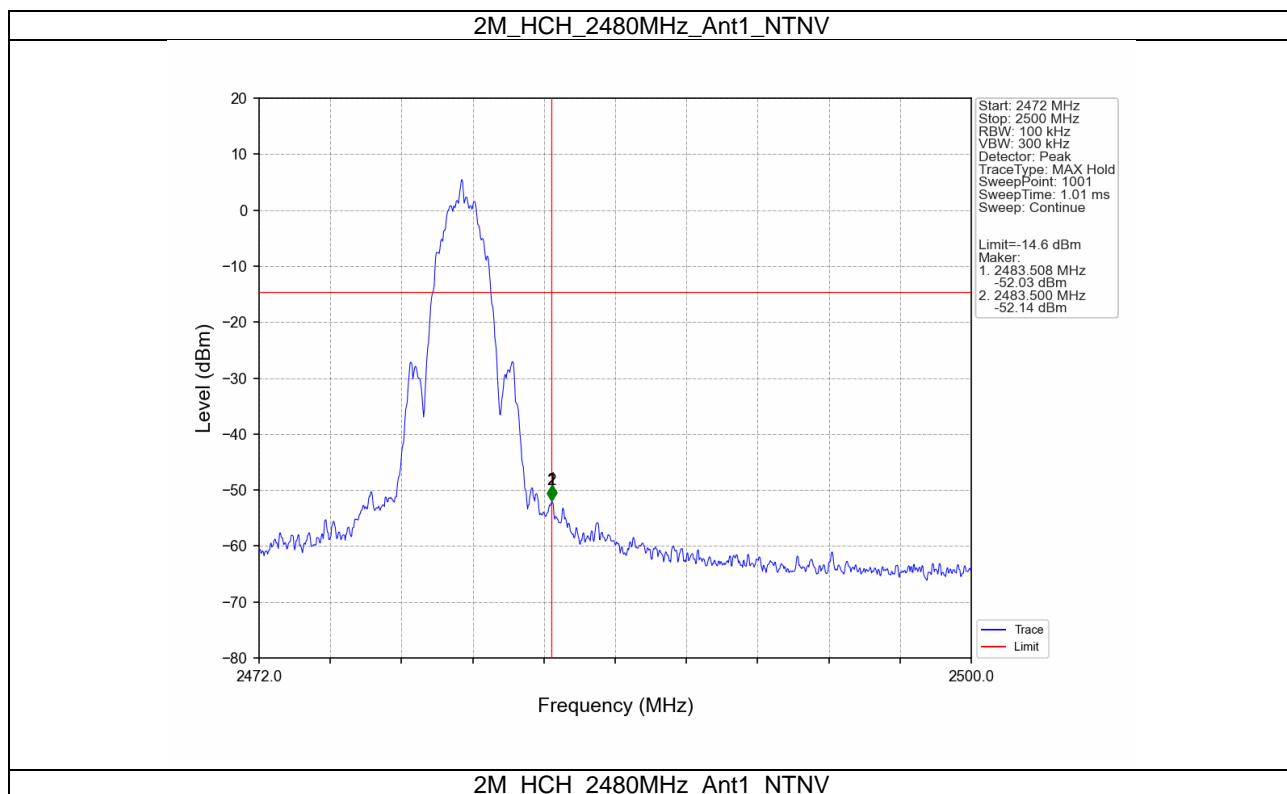
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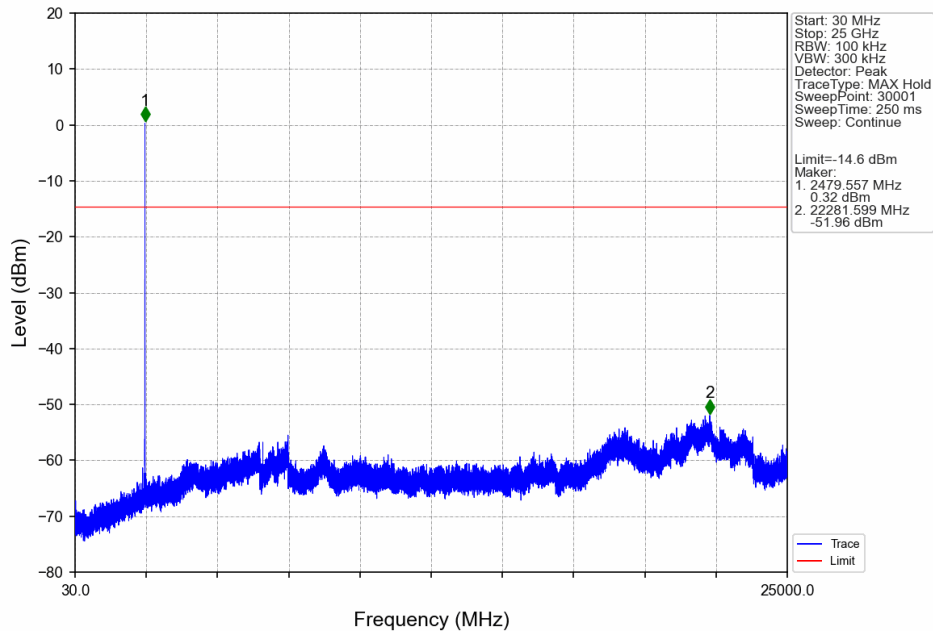
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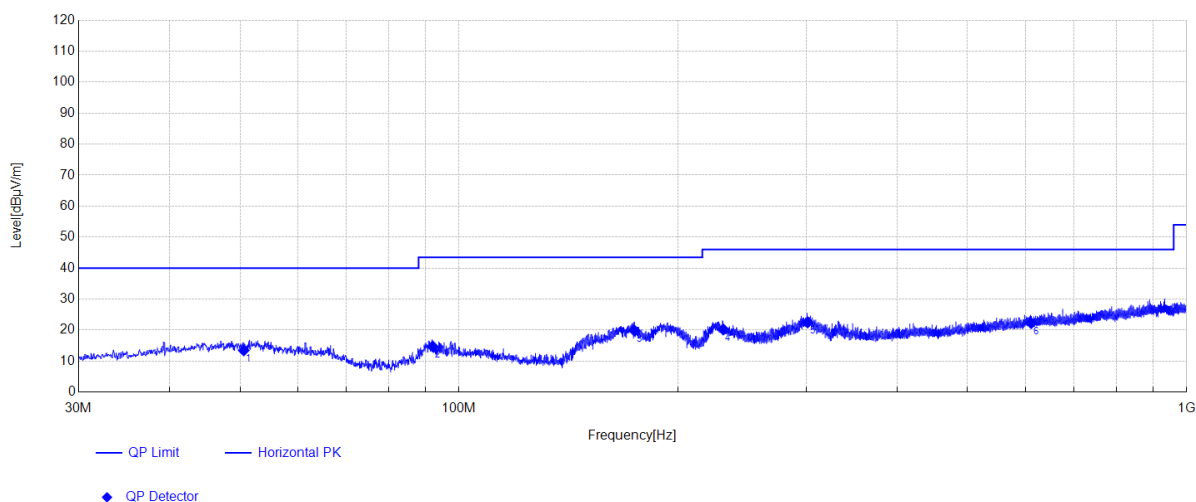
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: BLE 2M_Channel 38

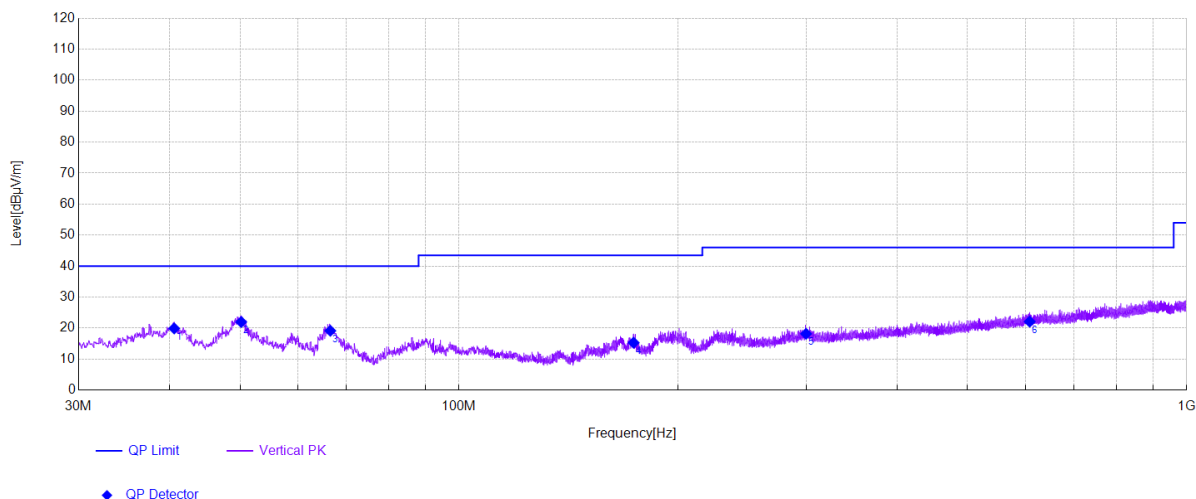


Data List								
NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	50.6011	13.92	-27.71	27.26	13.47	40.00	26.53	Horizontal
2	92.0032	10.40	-27.42	31.76	14.74	43.50	28.76	Horizontal
3	174.2074	9.26	-26.93	37.51	19.84	43.50	23.66	Horizontal
4	230.8104	11.38	-26.29	35.12	20.21	46.00	25.79	Horizontal
5	301.414	13.28	-25.66	34.89	22.51	46.00	23.49	Horizontal
6	611.53	19.15	-24.18	27.27	22.24	46.00	23.76	Horizontal

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NO.	Freq. [MHz]	AF[dB/m]	Factor [dB]	QP Reading[dB μV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	40.6005	13.28	-28.02	34.64	19.90	40.00	20.10	Vertical
2	50.201	14.04	-27.72	35.66	21.98	40.00	18.02	Vertical
3	66.5519	11.24	-27.45	35.35	19.14	40.00	20.86	Vertical
4	173.7574	9.28	-26.93	32.95	15.30	43.50	28.20	Vertical
5	299.9139	13.20	-25.60	30.57	18.17	46.00	27.83	Vertical
6	608.5298	19.27	-24.19	27.02	22.10	46.00	23.90	Vertical

Remark:

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

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

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

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

$$\text{Margin} = \text{Limit}(\text{dB}\mu\text{V}/\text{m}) - \text{Value}(\text{dB}\mu\text{V}/\text{m})$$
- All channels have been tested, but only the worst case data displayed in this report.

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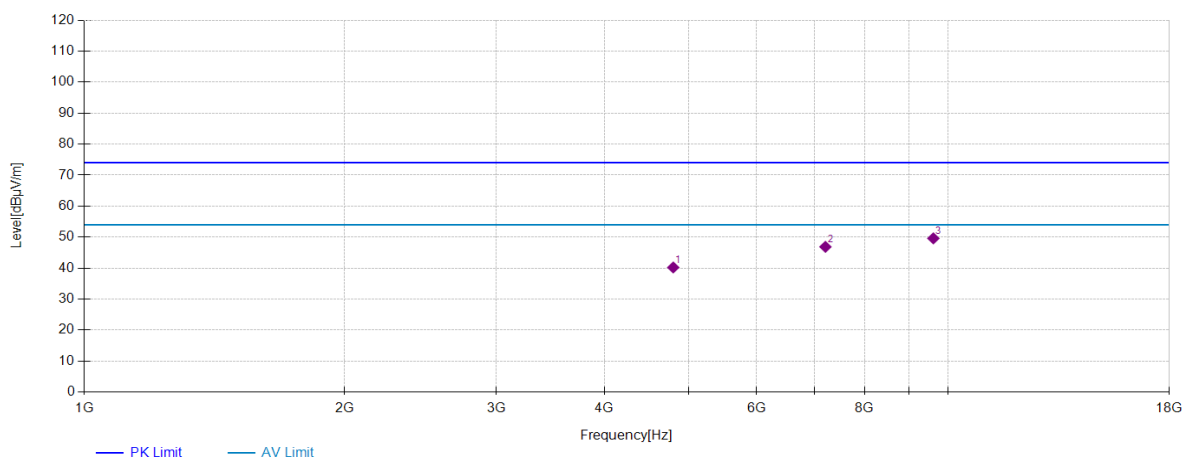
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Transmitter emission Above 1GHz

BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804	52.07	30.78	-42.64	40.21	74.00	33.79	Horizontal
2	7206	48.55	36.56	-38.24	46.87	74.00	27.13	Horizontal
3	9608	46.77	37.85	-35.02	49.60	74.00	24.40	Horizontal

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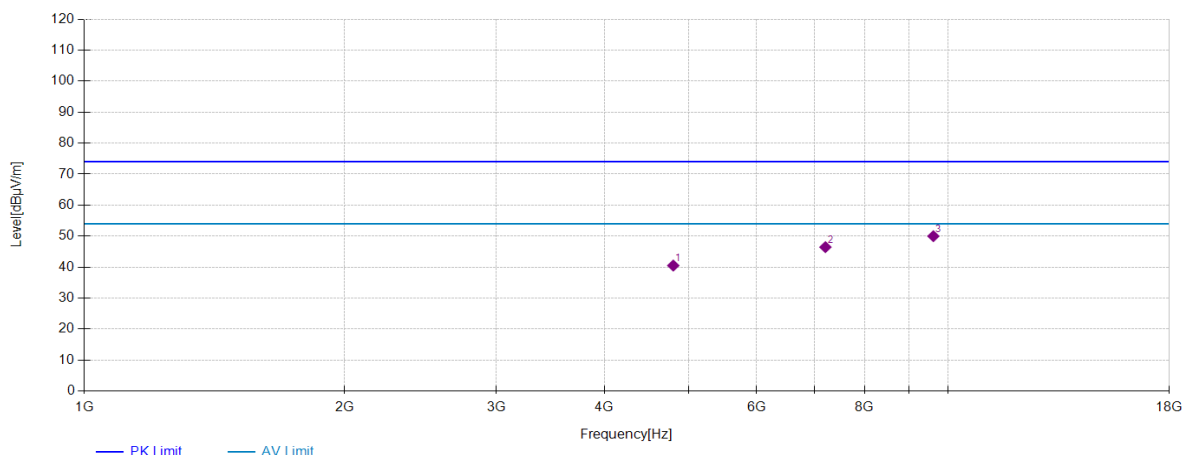
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BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4804	52.37	30.78	-42.64	40.51	74.00	33.49	Vertical
2	7206	48.13	36.56	-38.24	46.45	74.00	27.55	Vertical
3	9608	47.16	37.85	-35.02	49.99	74.00	24.01	Vertical

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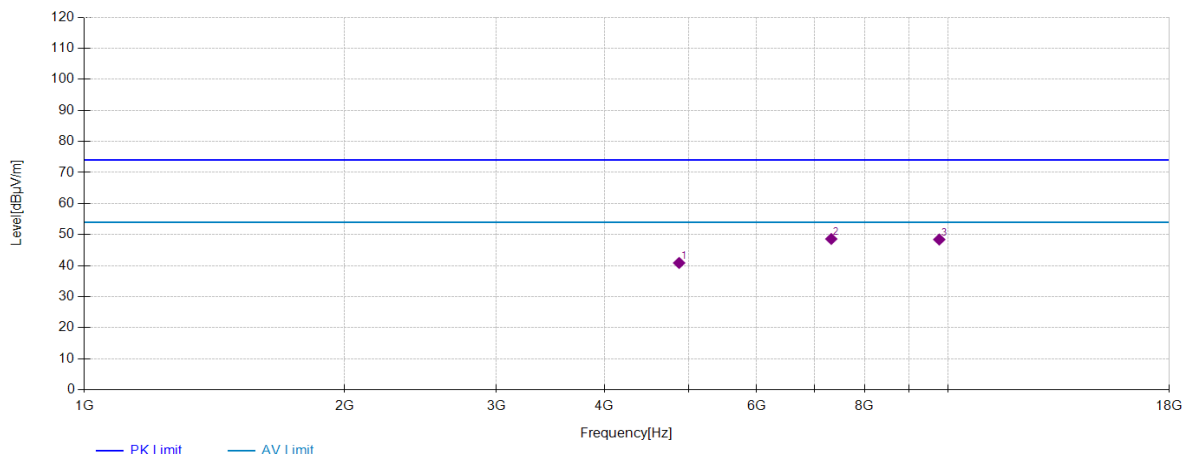
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BLE 1M_Channel 19



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880	52.61	30.78	-42.52	40.87	74.00	33.13	Horizontal
2	7320	50.48	36.44	-38.32	48.60	74.00	25.40	Horizontal
3	9760	45.40	38.34	-35.33	48.41	74.00	25.59	Horizontal

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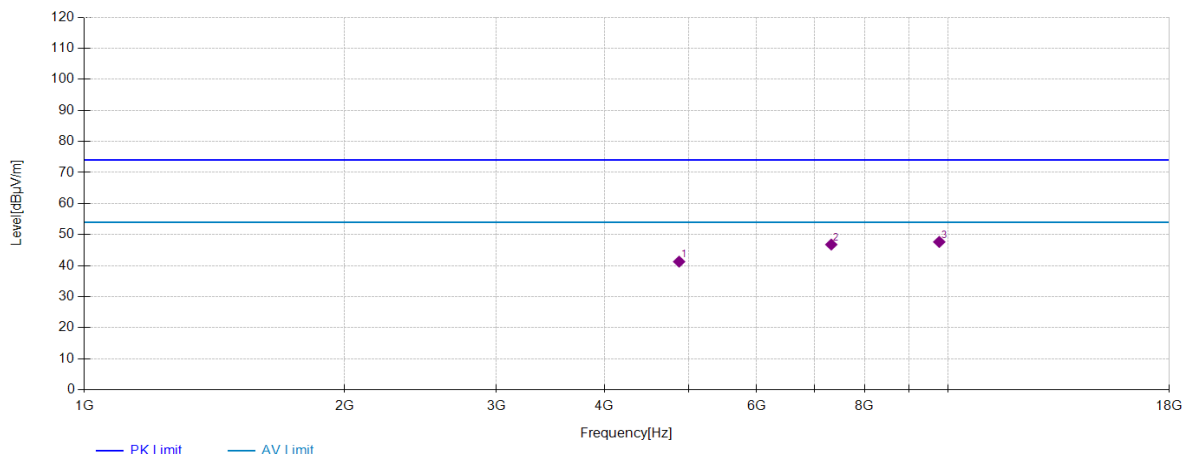
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880	53.03	30.78	-42.52	41.29	74.00	32.71	Vertical
2	7320	48.67	36.44	-38.32	46.79	74.00	27.21	Vertical
3	9760	44.63	38.34	-35.33	47.64	74.00	26.36	Vertical

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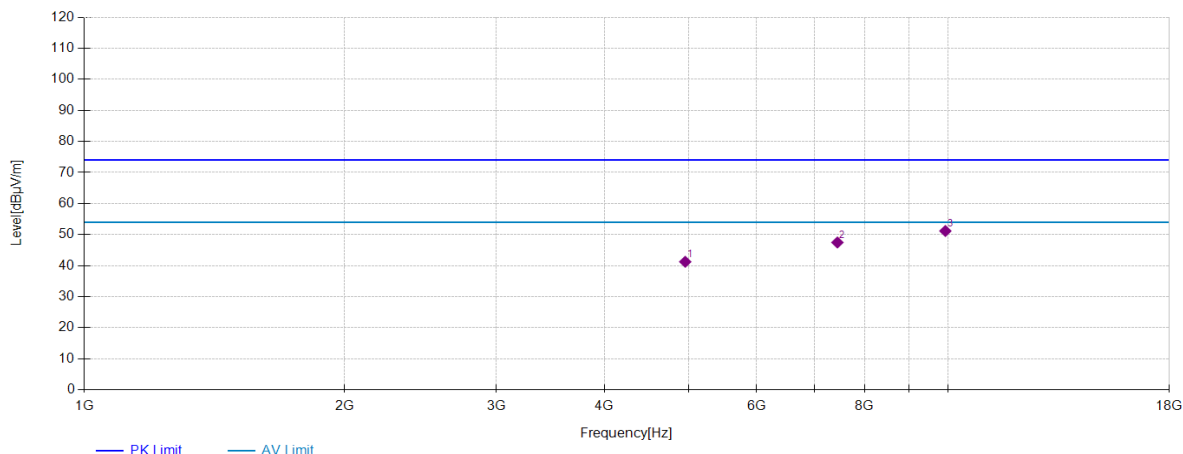
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	52.65	31.04	-42.44	41.25	74.00	32.75	Horizontal
2	7440	48.45	36.78	-37.77	47.46	74.00	26.54	Horizontal
3	9920	47.29	38.62	-34.75	51.16	74.00	22.84	Horizontal

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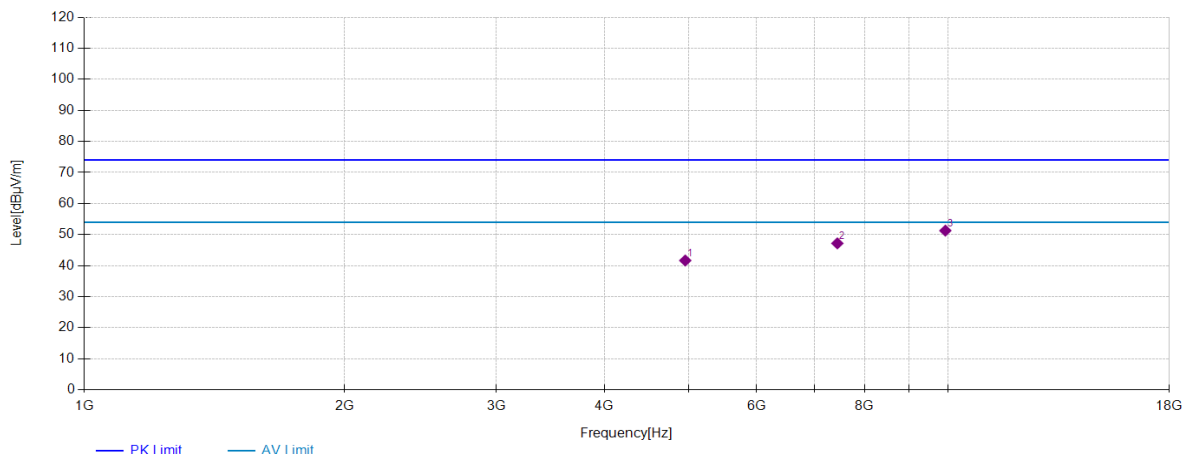
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4960	53.07	31.04	-42.44	41.67	74.00	32.33	Vertical
2	7440	48.17	36.78	-37.77	47.18	74.00	26.82	Vertical
3	9920	47.41	38.62	-34.75	51.28	74.00	22.72	Vertical

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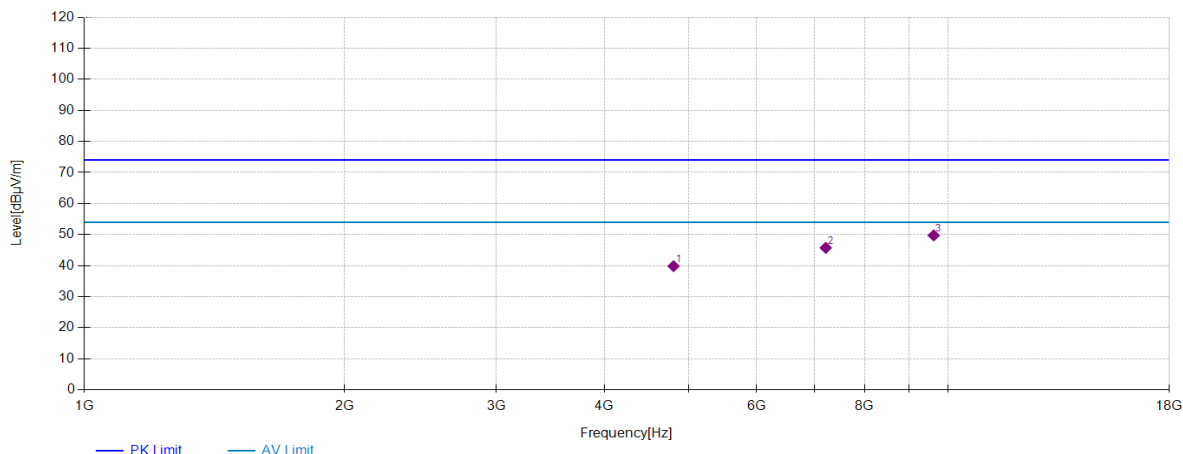
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4808	51.72	30.77	-42.65	39.84	74.00	34.16	Horizontal
2	7212	47.48	36.53	-38.28	45.73	74.00	28.27	Horizontal
3	9616	46.79	37.90	-34.96	49.73	74.00	24.27	Horizontal

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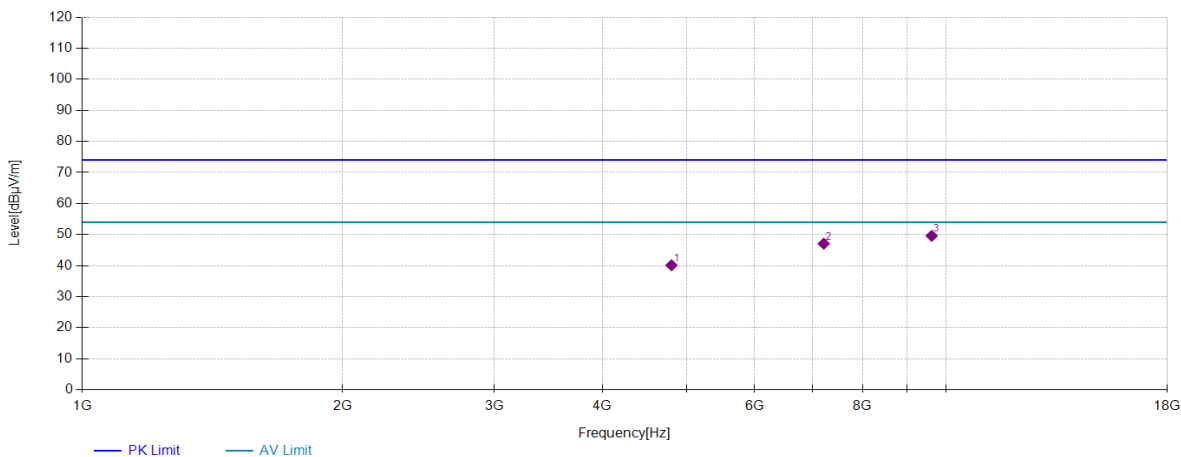
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BLE 2M_Channel 01



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4808	52.01	30.77	-42.65	40.13	74.00	33.87	Vertical
2	7212	48.83	36.53	-38.28	47.08	74.00	26.92	Vertical
3	9616	46.66	37.90	-34.96	49.60	74.00	24.40	Vertical

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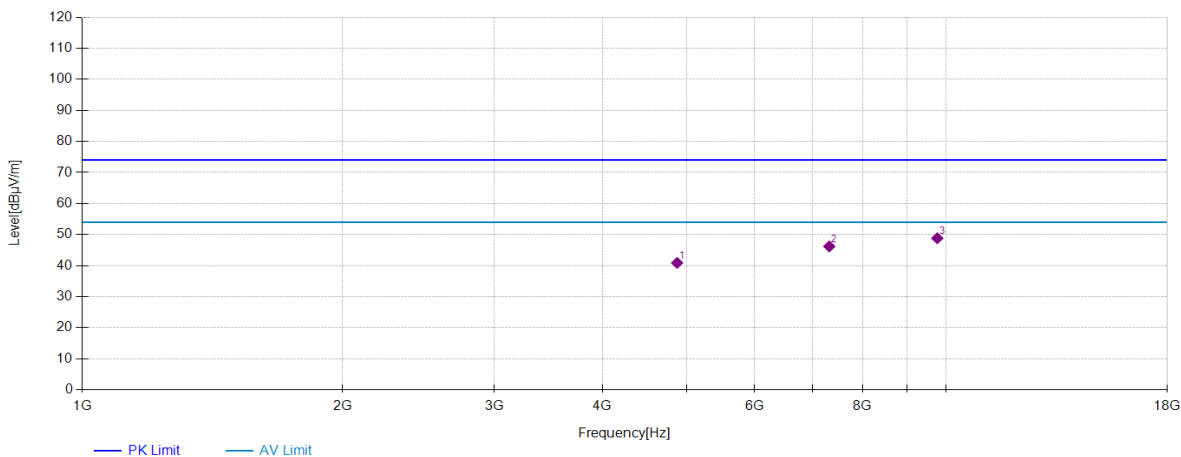
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880	52.63	30.78	-42.52	40.89	74.00	33.11	Horizontal
2	7320	48.07	36.44	-38.32	46.19	74.00	27.81	Horizontal
3	9760	45.83	38.34	-35.33	48.84	74.00	25.16	Horizontal

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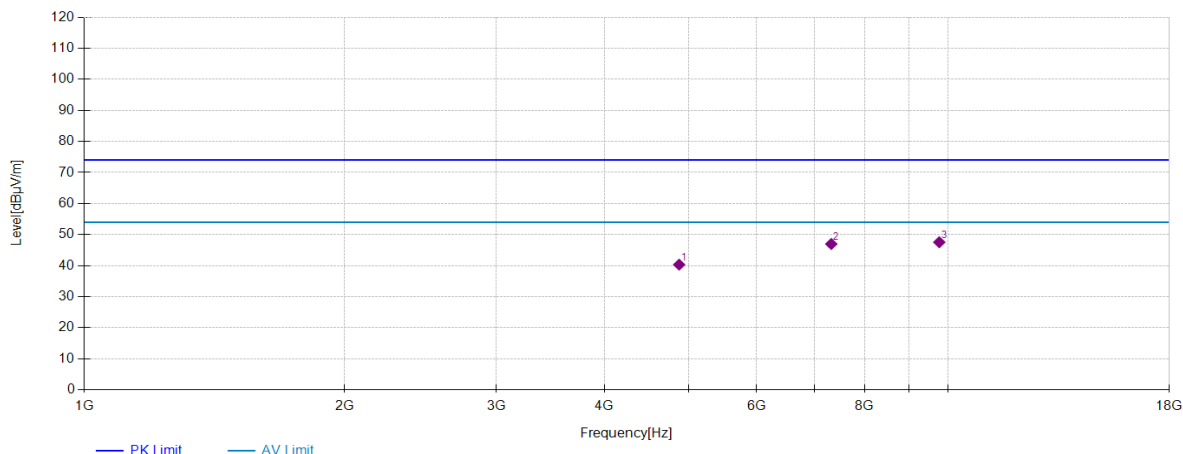
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4880	52.06	30.78	-42.52	40.32	74.00	33.68	Vertical
2	7320	48.85	36.44	-38.32	46.97	74.00	27.03	Vertical
3	9760	44.54	38.34	-35.33	47.55	74.00	26.45	Vertical

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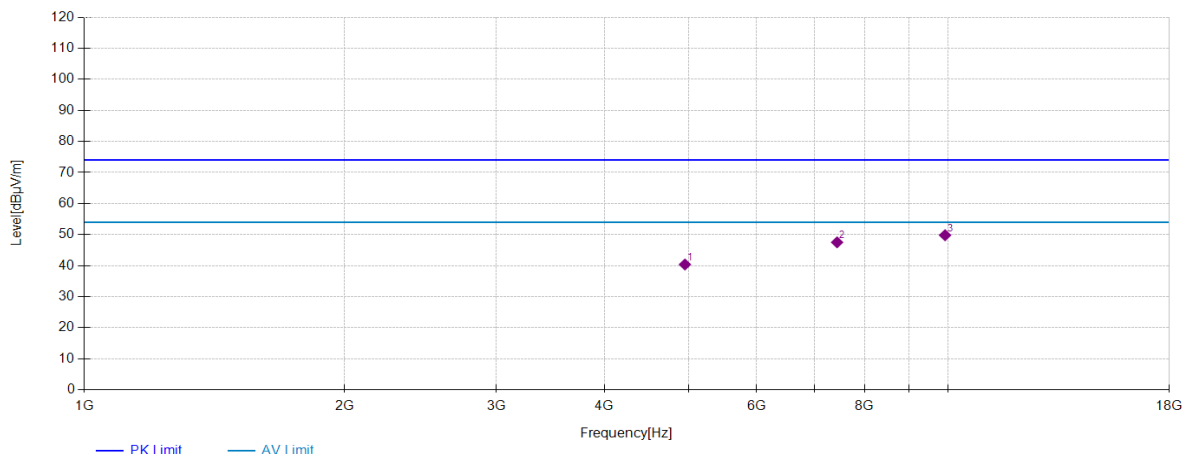
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4956	51.79	31.02	-42.44	40.37	74.00	33.63	Horizontal
2	7434	48.55	36.77	-37.81	47.51	74.00	26.49	Horizontal
3	9912	45.97	38.61	-34.78	49.80	74.00	24.20	Horizontal

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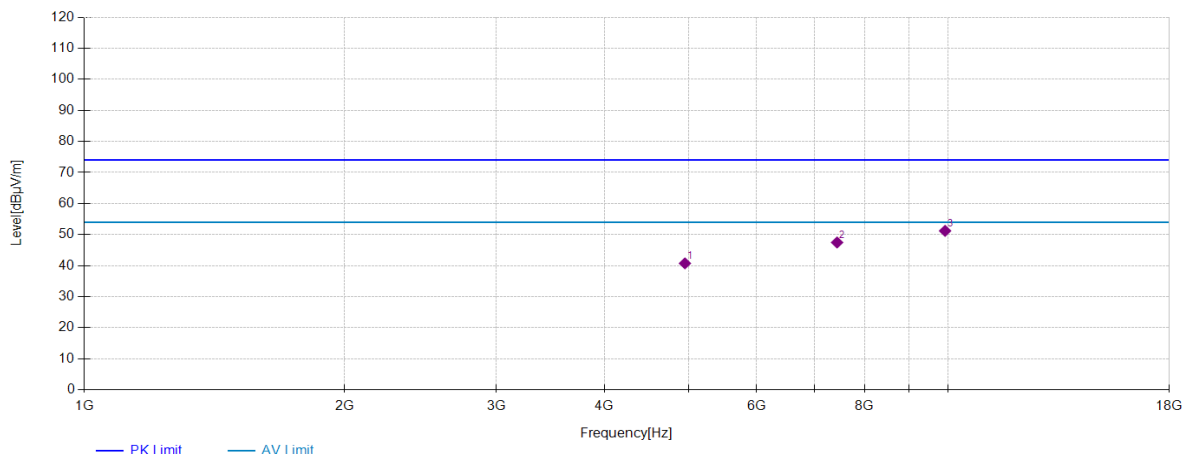
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4956	52.16	31.02	-42.44	40.74	74.00	33.26	Vertical
2	7434	48.50	36.77	-37.81	47.46	74.00	26.54	Vertical
3	9912	47.37	38.61	-34.78	51.20	74.00	22.80	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
Level = Reading(dBμV) + AF(dB/m) + Factor(dB):
AF = Antenna Factor(dB/m)
Factor = Cable Factor(dB) - Preamplifier gain(dB)
Margin = Limit(dBμV/m) – Level(dBμV/m)
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"

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Wireless Laboratory

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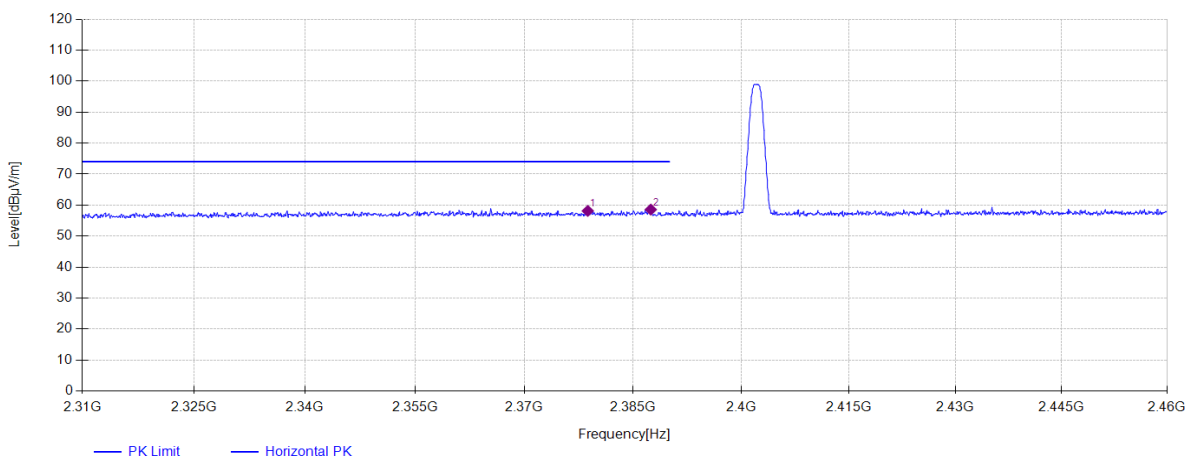
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Restricted bands around fundamental frequency
BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.7344	47.95	27.49	-17.30	58.14	74.00	15.86	Horizontal
2	2387.4387	48.37	27.45	-17.26	58.56	74.00	15.44	Horizontal

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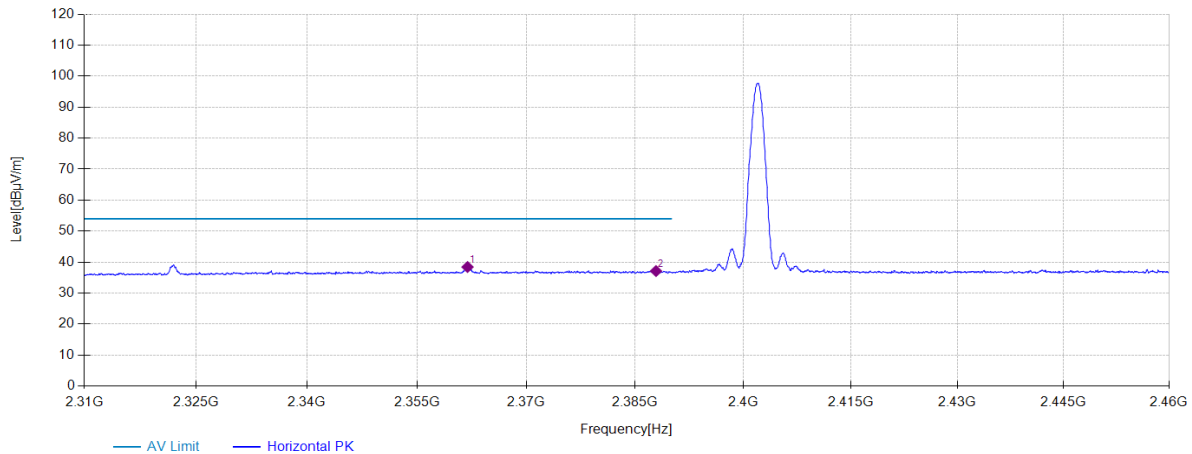
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2361.926	28.25	27.55	-17.37	38.43	54.00	15.57	Horizontal
2	2387.8889	26.93	27.45	-17.26	37.12	54.00	16.88	Horizontal

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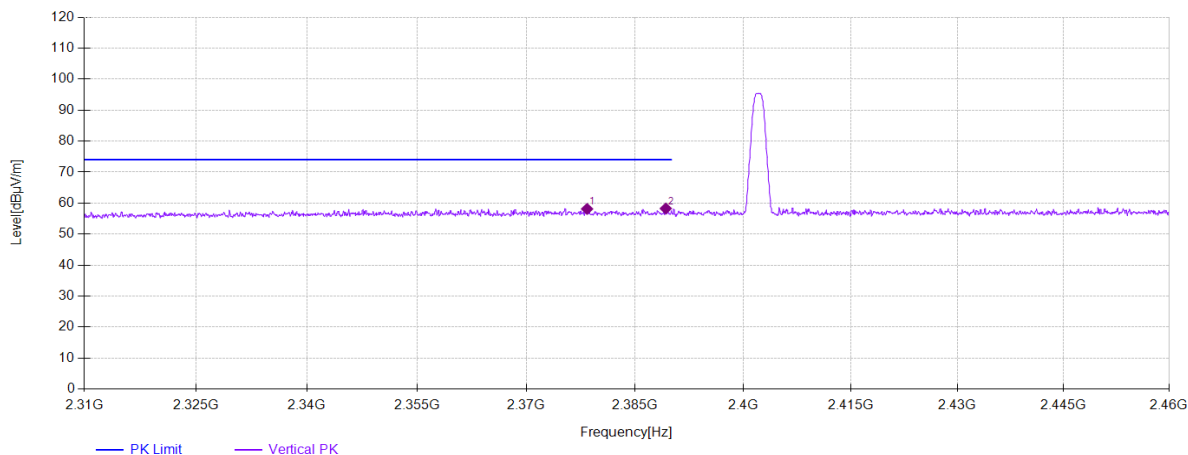
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BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2378.3592	47.93	27.49	-17.30	58.12	74.00	15.88	Vertical
2	2389.2396	48.09	27.44	-17.26	58.27	74.00	15.73	Vertical

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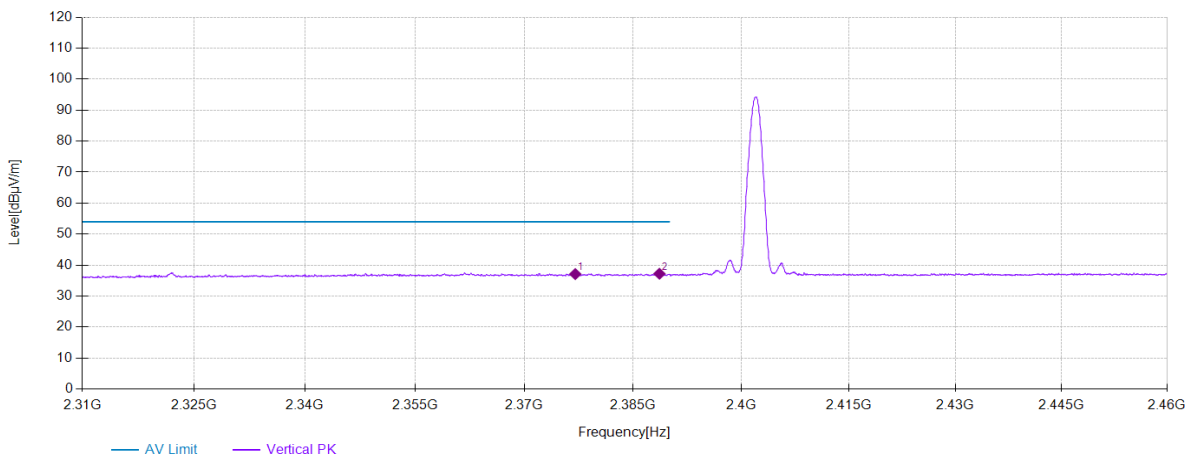
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BLE 1M_Channel 00



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2377.0085	26.94	27.49	-17.31	37.12	54.00	16.88	Vertical
2	2388.6393	27.03	27.45	-17.26	37.22	54.00	16.78	Vertical

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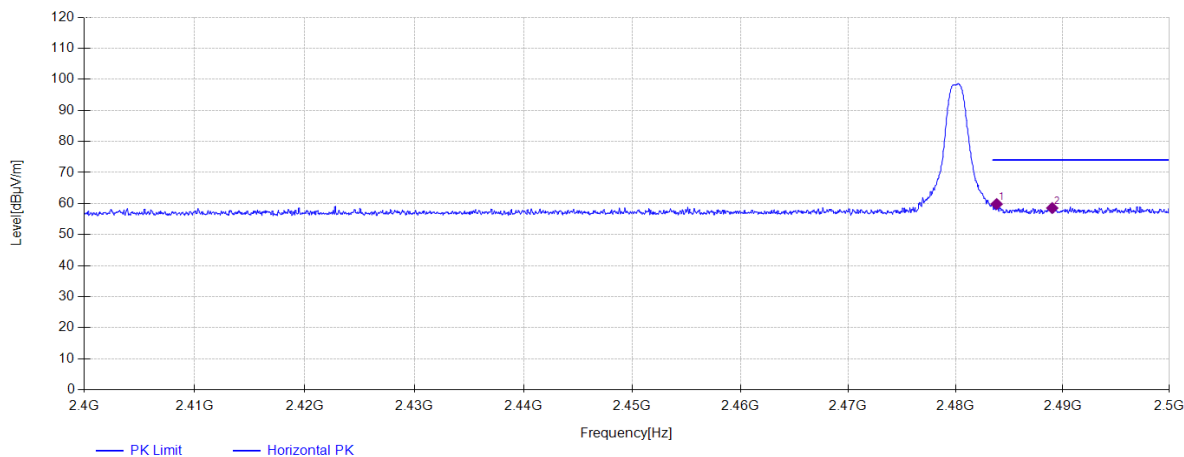
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BLE 1M_Channel 39



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.8419	49.24	27.74	-17.15	59.83	74.00	14.17	Horizontal
2	2489.0445	47.97	27.76	-17.18	58.55	74.00	15.45	Horizontal

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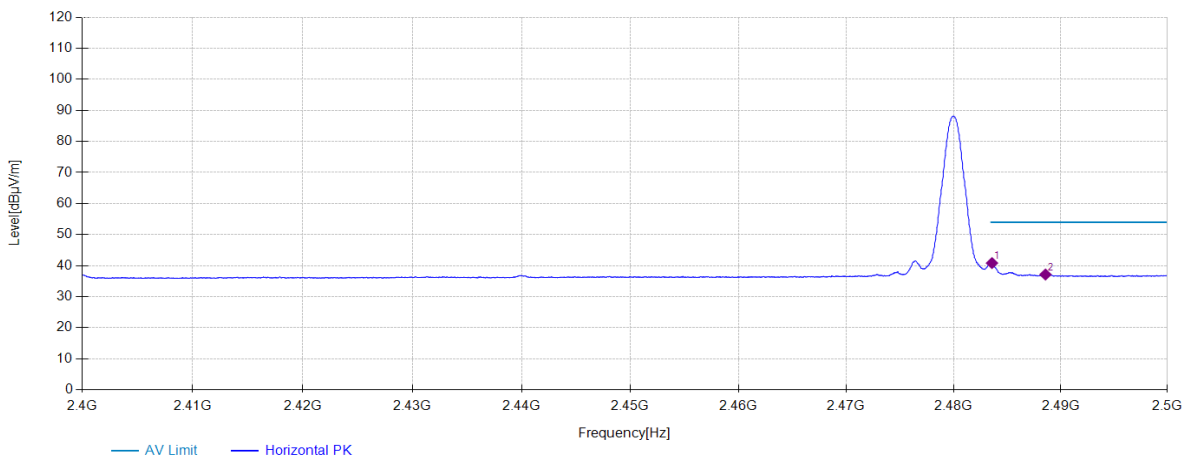
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5918	30.25	27.73	-17.14	40.84	54.00	13.16	Horizontal
2	2488.5943	26.58	27.75	-17.18	37.15	54.00	16.85	Horizontal

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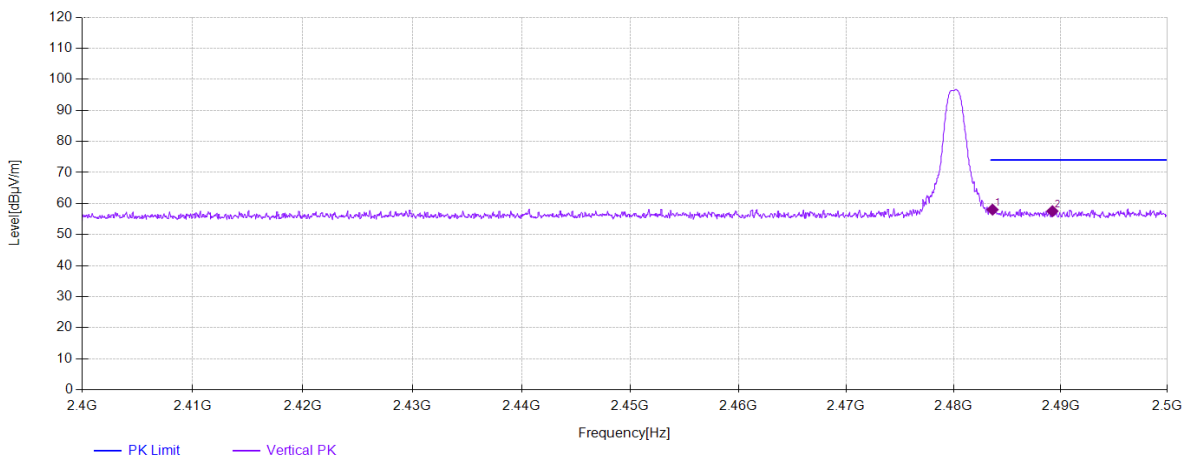
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Data List								
NO.	Frequency [MHz]	Reading [dBµV]	AF[dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	2483.6418	47.45	27.73	-17.15	58.03	74.00	15.97	Vertical
2	2489.2446	46.96	27.76	-17.18	57.54	74.00	16.46	Vertical

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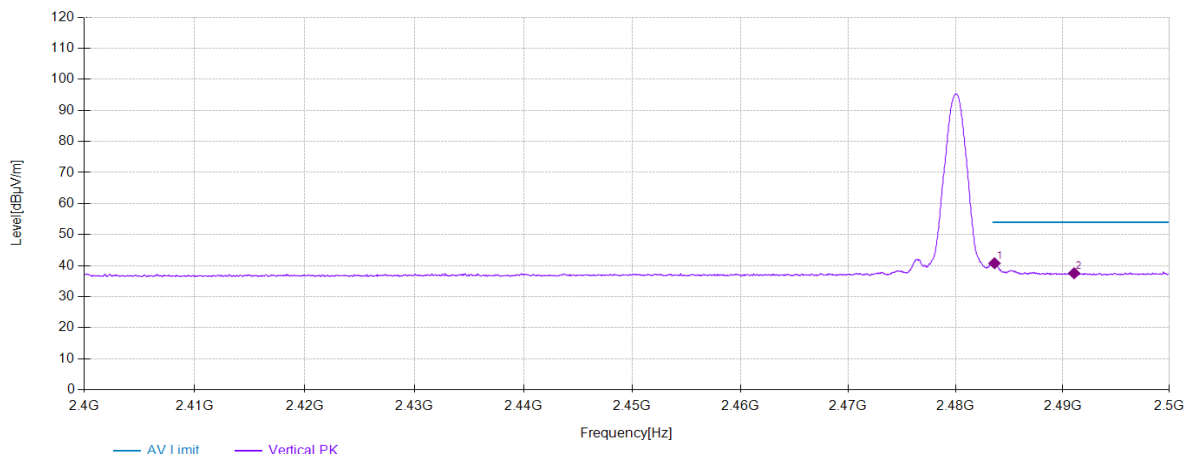
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6418	30.20	27.73	-17.15	40.78	54.00	13.22	Vertical
2	2491.0955	26.98	27.76	-17.19	37.55	54.00	16.45	Vertical

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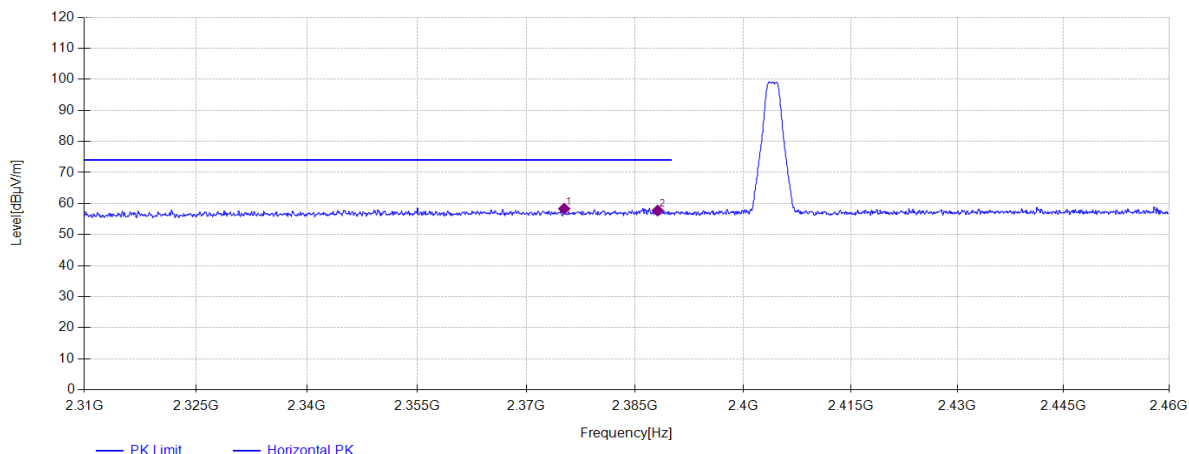
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2375.2076	48.13	27.50	-17.31	58.32	74.00	15.68	Horizontal
2	2388.1141	47.54	27.45	-17.26	57.73	74.00	16.27	Horizontal

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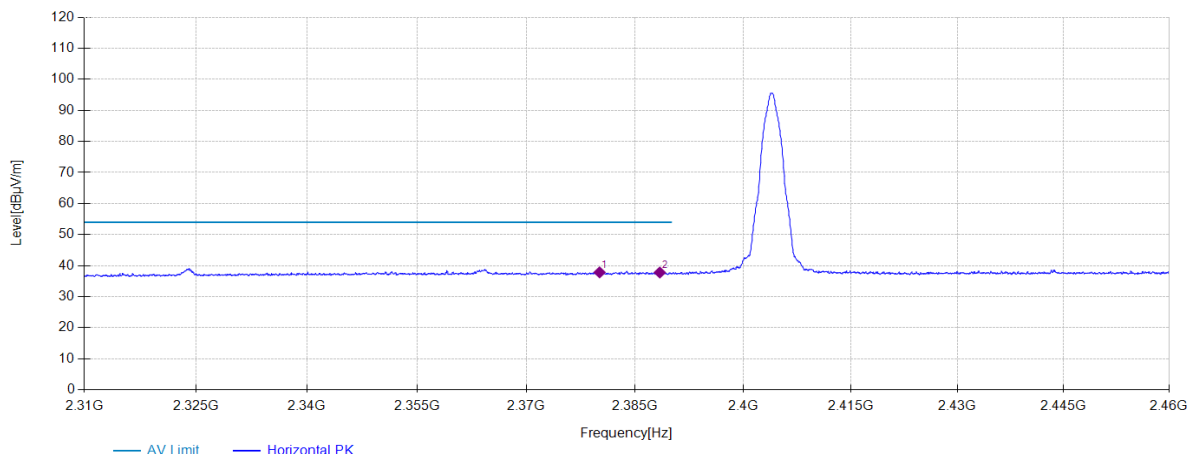
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2380.085	27.65	27.48	-17.29	37.84	54.00	16.16	Horizontal
2	2388.4142	27.60	27.45	-17.26	37.79	54.00	16.21	Horizontal

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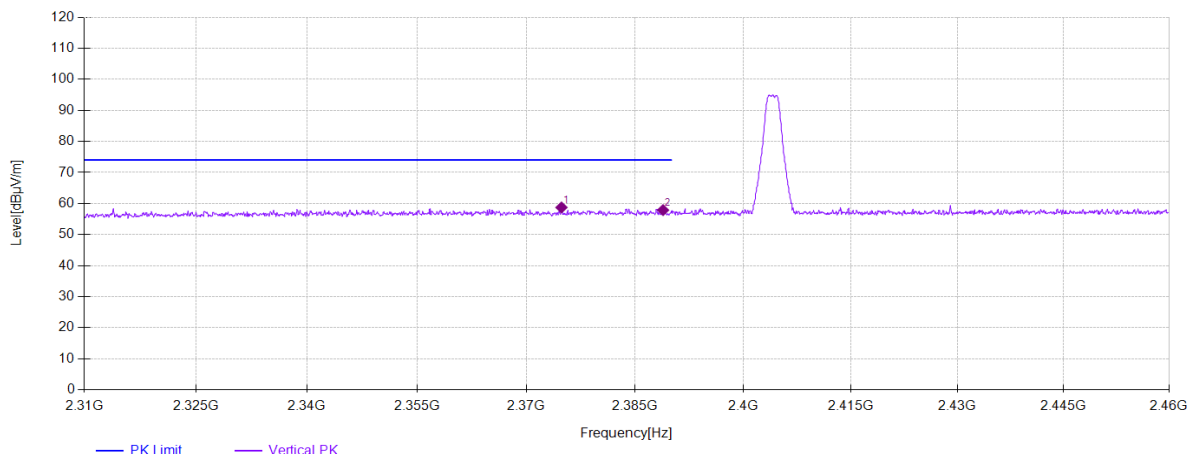
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2374.8324	48.56	27.50	-17.32	58.74	74.00	15.26	Vertical
2	2388.8644	47.70	27.44	-17.26	57.88	74.00	16.12	Vertical

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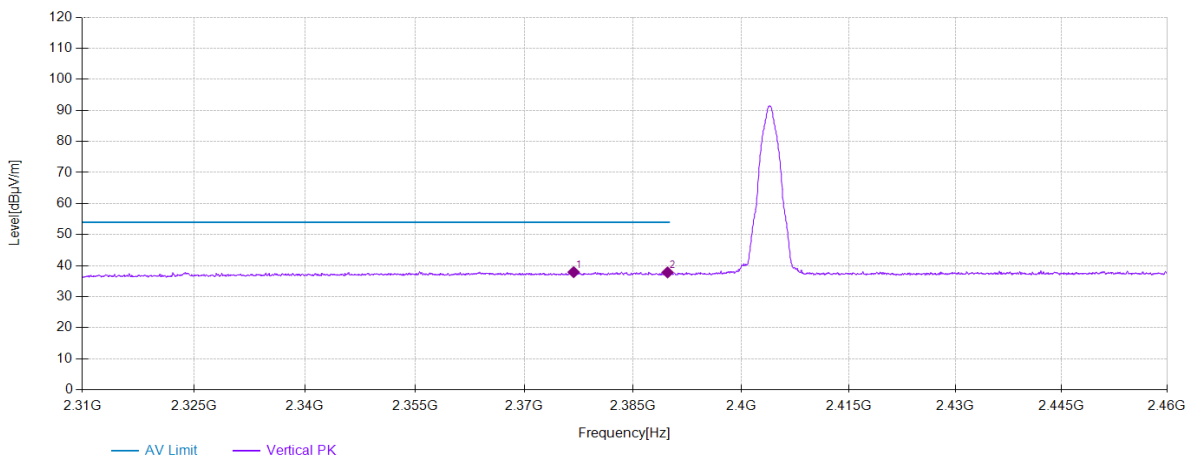
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2376.7834	27.73	27.49	-17.31	37.91	54.00	16.09	Vertical
2	2389.7649	27.64	27.44	-17.25	37.83	54.00	16.17	Vertical

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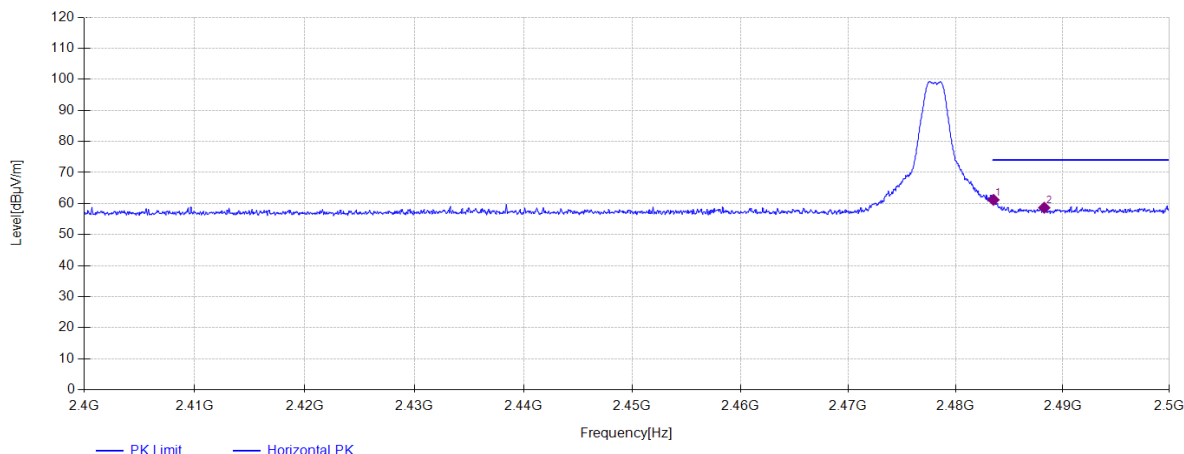
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.5418	50.59	27.73	-17.14	61.18	74.00	12.82	Horizontal
2	2488.2941	48.08	27.75	-17.18	58.65	74.00	15.35	Horizontal

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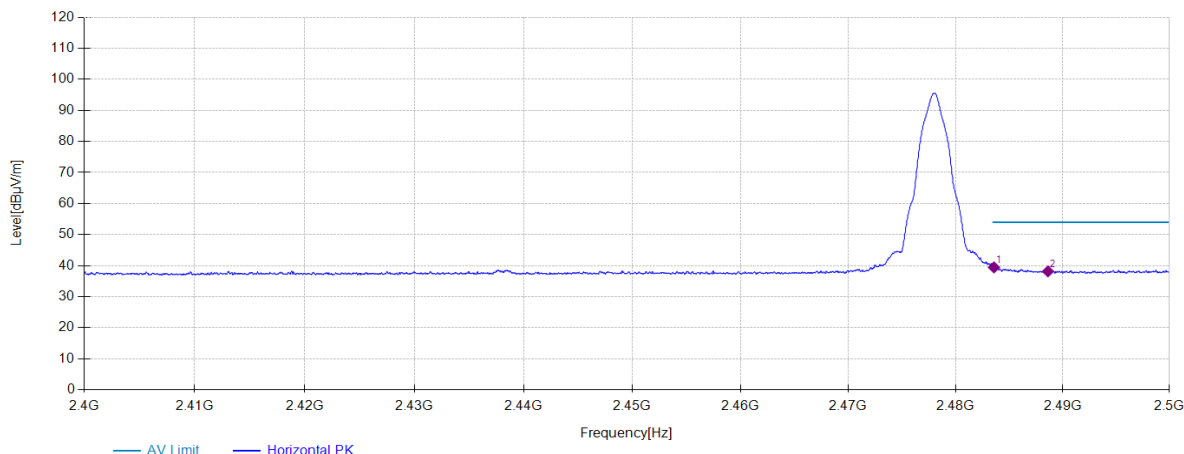
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Data List								
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1	2483.5918	28.85	27.73	-17.14	39.44	54.00	14.56	Horizontal
2	2488.6443	27.59	27.75	-17.18	38.16	54.00	15.84	Horizontal

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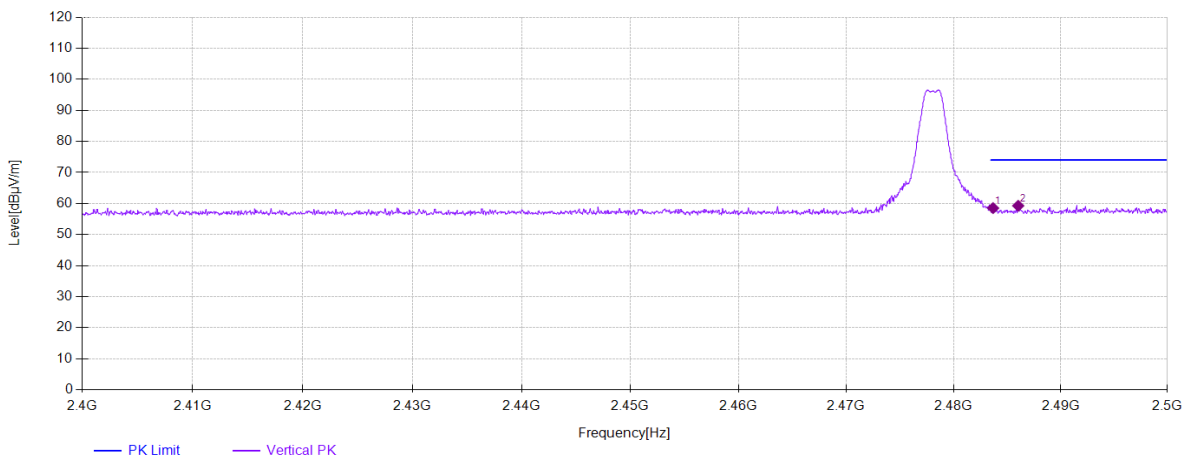
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.6918	47.96	27.73	-17.15	58.54	74.00	15.46	Vertical
2	2486.043	48.70	27.74	-17.16	59.28	74.00	14.72	Vertical

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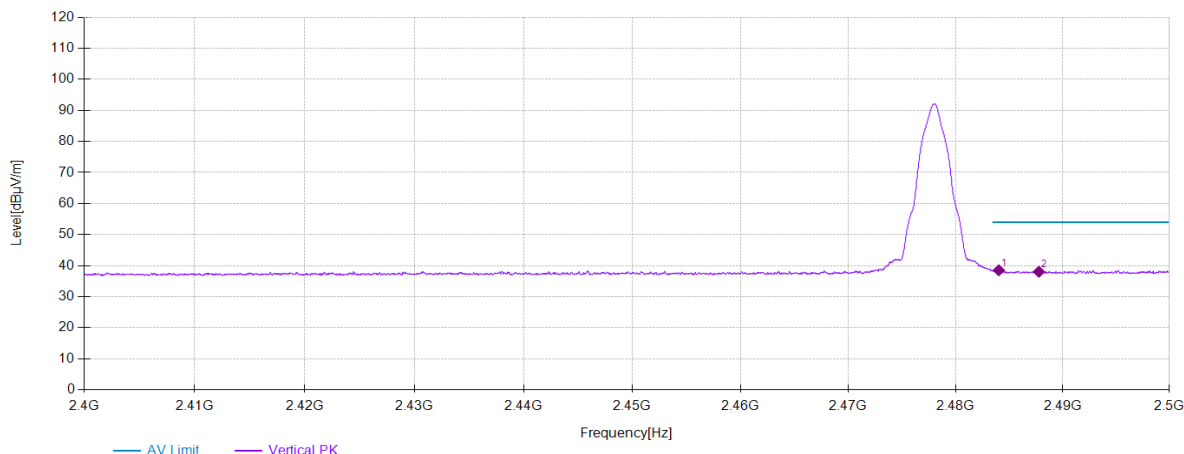
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF[dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.042	27.93	27.74	-17.15	38.52	54.00	15.48	Vertical
2	2487.7939	27.47	27.75	-17.17	38.05	54.00	15.95	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

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

AF = Antenna Factor(dB/m)

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

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

- 2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

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