

Report No.: SEWM2206000075RG04
 Rev.: 01
 Page: 1 of 101

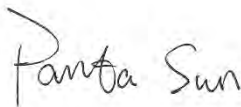
TEST REPORT

Application No.: SEWM2206000075RG
Applicant: COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer: COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer: UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
EUT Description: Smart Phone
Model No.: SL104D
Trade Mark: SUMMIT
FCC ID: 2A28USL104D
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2022/6/7
Date of Test: 2022/6/17 to 2022/7/4
Date of Issue: 2022/7/6

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		2022/7/6		Original

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



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.2.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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Report No.: SEWM2206000075RG04
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3 General Information

3.1 Details of Client

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL, HONG KONG, CHINA

3.2 Test Location

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

3.3 Test Facility

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

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

EUT Description:	Smart Phone	
Model No.:	SL104D	
Trade Mark:	SUMMIT	
Hardware Version:	1.0	
Software Version:	SL104DD10013	
Operation Frequency:	802.11b/g/n(HT20):	2412MHz to 2462MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
Number of Channels:	802.11b/g/n(HT20): 11	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx
		STBC: 802.11n: Tx & Rx
	<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated	
Antenna Gain*:	<input checked="" type="checkbox"/> Provided by client	
	-0.2dBi(ANT2)	
RF Cable:	1.0dB	

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

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Operation Frequency of each channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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 for 802.11 b/g/n (HT20)
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz



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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	3.8
LTVN	-10	3.8
HTNV	55	3.8
Remark: NV: Normal Voltage NT: Normal Temperature LT: Low Extreme Test Temperature HT: High Extreme Test Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/



4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
The antenna is integrated and no consideration of replacement. The best case gain of the antenna is -0.2dBi.	



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4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<p>1) The mains terminal disturbance voltage test was conducted in a shielded room.</p> <p>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.</p> <p>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,</p> <p>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. 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.</p>		



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<p>Test Setup:</p>	
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details. Only the worst case is recorded in the report.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>
<p>Test Results:</p>	<p>Pass</p>



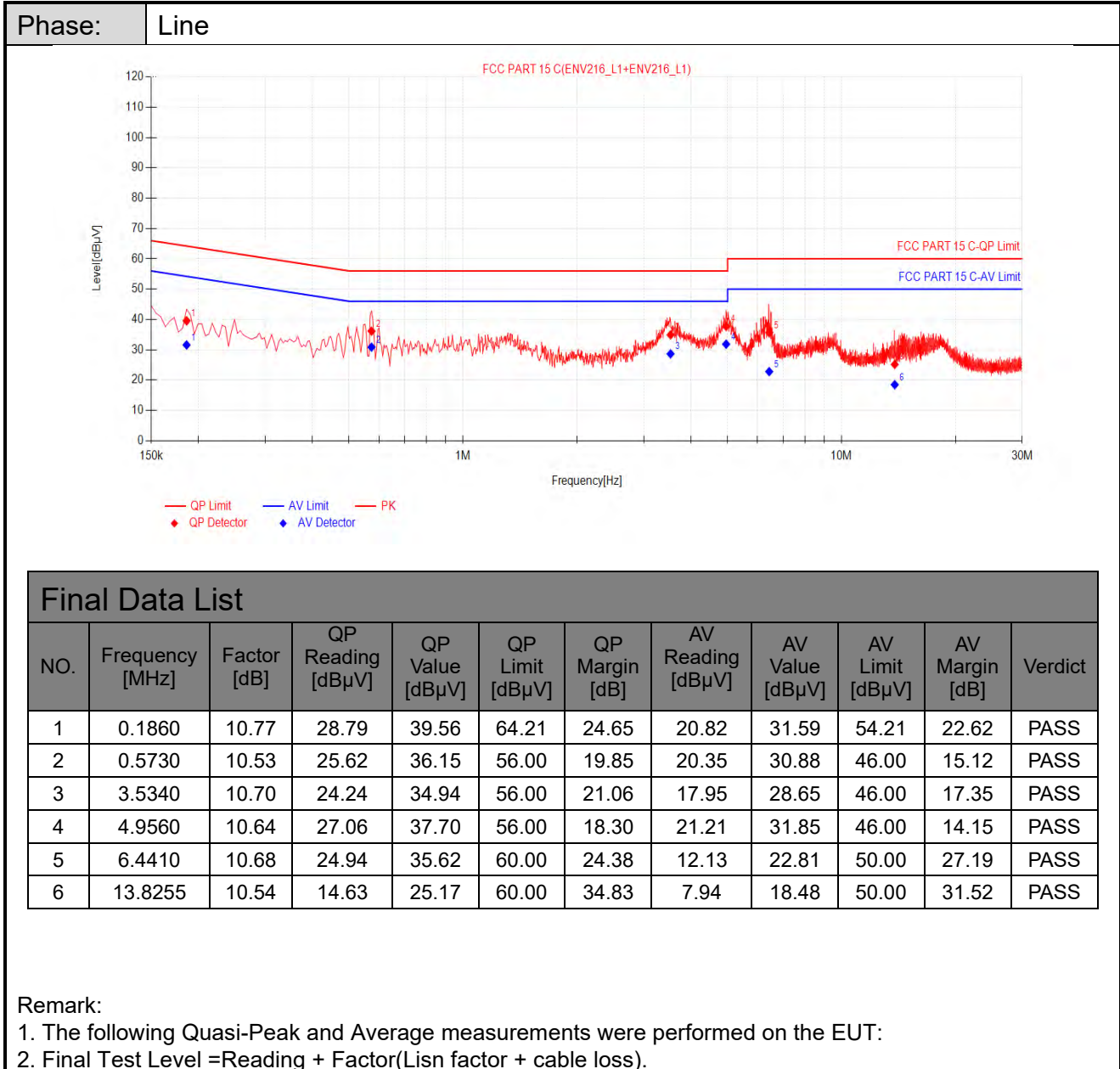
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Measurement Data

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.

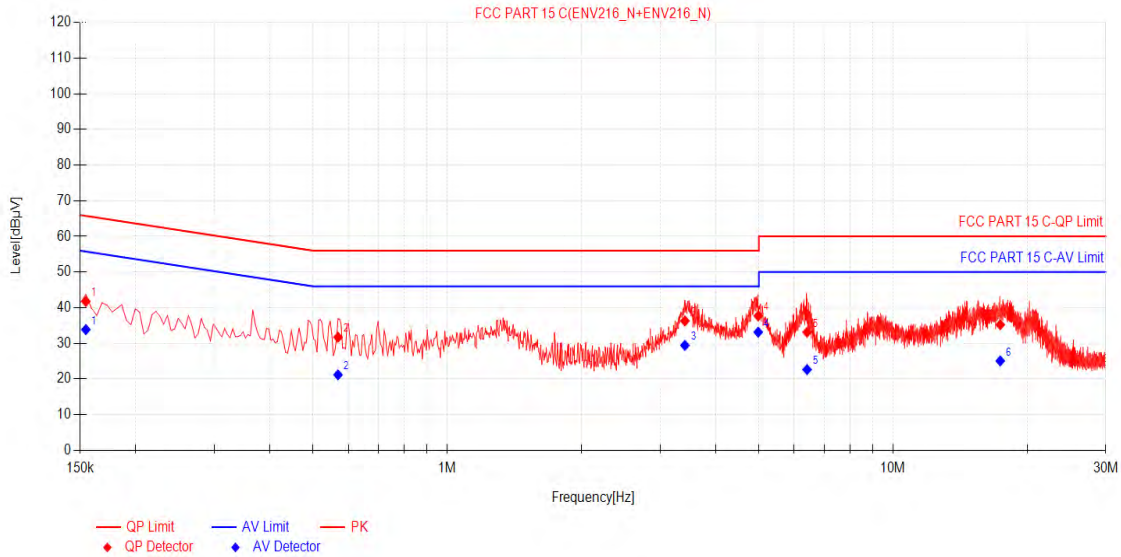


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Phase: Neutral



Final Data List

NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1545	10.72	31.04	41.76	65.75	23.99	23.14	33.86	55.75	21.89	PASS
2	0.5685	10.72	20.99	31.71	56.00	24.29	10.44	21.16	46.00	24.84	PASS
3	3.4125	10.66	25.64	36.30	56.00	19.70	18.77	29.43	46.00	16.57	PASS
4	4.9830	10.64	27.05	37.69	56.00	18.31	22.50	33.14	46.00	12.86	PASS
5	6.4140	10.55	22.57	33.12	60.00	26.88	12.10	22.65	50.00	27.35	PASS
6	17.4030	10.51	24.70	35.21	60.00	24.79	14.56	25.07	50.00	24.93	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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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 11.9.2.3
Test Setup:	<p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: Appendix	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass
The detailed test data see: Appendix	



4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
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.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass
The detailed test data see: Appendix	



4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak	
	Peak	1MHz	3MHz	Peak	
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
Remark: 15.35(b),Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.					



Test Setup:

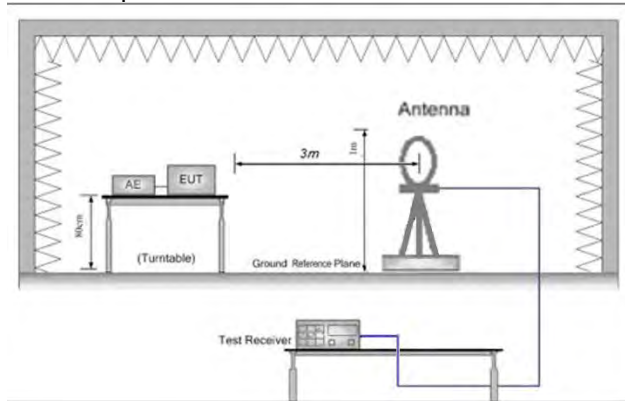


Figure 1. Below 30MHz

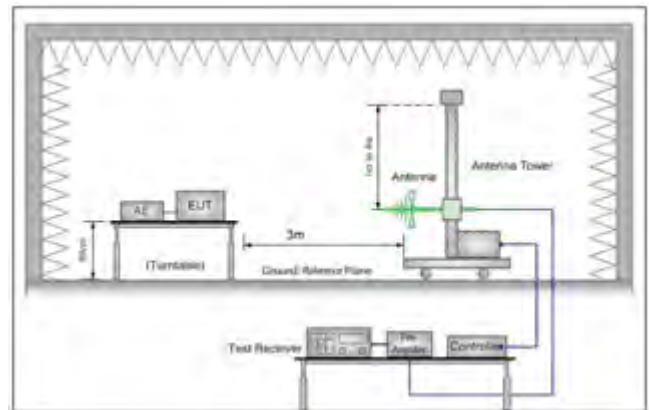


Figure 2. 30MHz to 1GHz

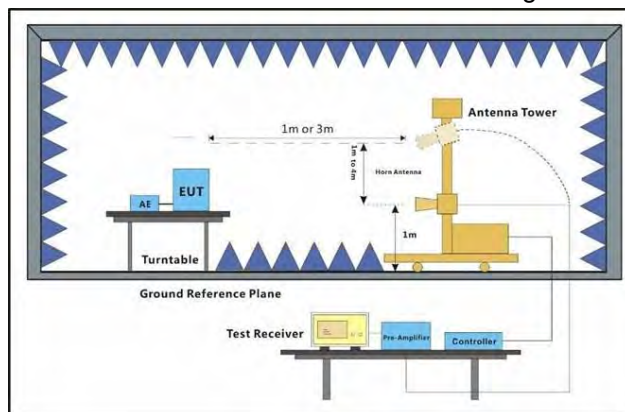


Figure 3. Above 1 GHz

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



	<p>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. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. 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>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. 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</p> <p>k. 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> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 * \text{LOG}(3/1) = 9.54 \text{ dB}$.</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 $\geq 3 \text{ MHz}$ • 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 $\geq [3 * \text{RBW}]$ • Detector = RMS (power averaging), if span / (# of points in sweep) $\leq (\text{RBW} / 2)$. 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 – Pre-amplifier Factor).</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
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:

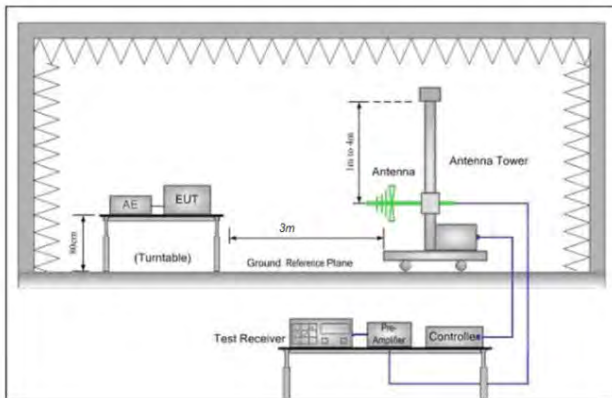


Figure 1. 30MHz to 1GHz

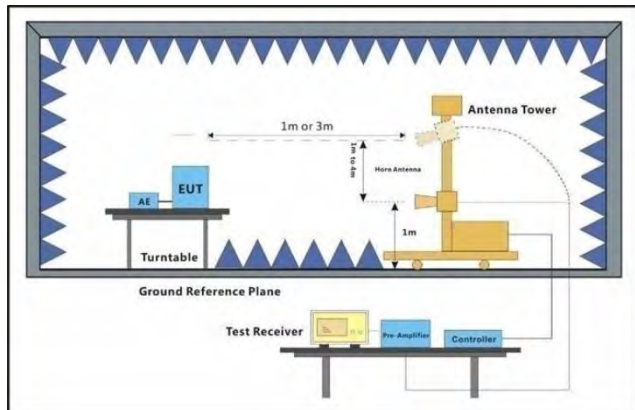


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • 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>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates.</p>





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	Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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6 Equipment List

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/5/17	2023/5/16
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/2/15	2023/2/14
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
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
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2022/2/14	2023/2/13

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	2022/2/19	2023/2/18
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-02	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	2022/2/19	2023/2/18
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	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	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/5/28	2023/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2023/6/9
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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Rev.: 01
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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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Report No.: SEWM2206000075RG04

Rev.: 01

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DTS Bandwidth Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant2	2412	10.12	2406.92	2417.04	≥0.5	PASS
		2437	9.60	2431.92	2441.52	≥0.5	PASS
		2462	10.12	2456.92	2467.04	≥0.5	PASS
11g	Ant2	2412	15.60	2404.16	2419.76	≥0.5	PASS
		2437	15.20	2429.36	2444.56	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS
11n20SISO	Ant2	2412	16.04	2404.36	2420.40	≥0.5	PASS
		2437	15.20	2429.36	2444.56	≥0.5	PASS
		2462	15.24	2454.36	2469.60	≥0.5	PASS



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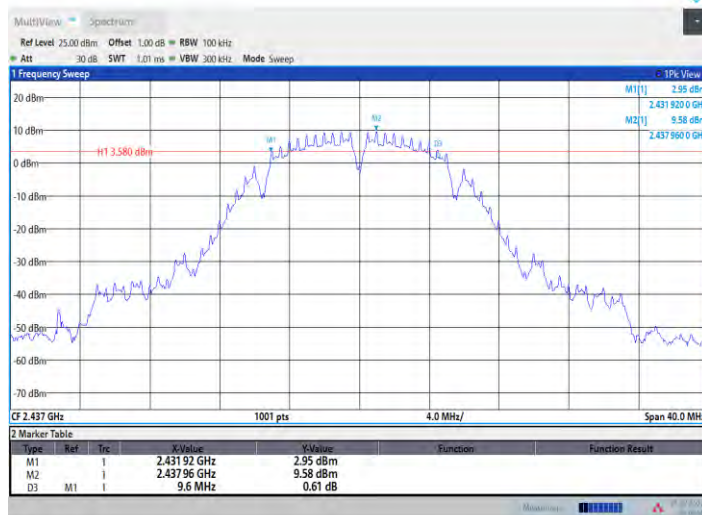
Test Graphs

11b_Ant2_2412



20:23:26 01.07.2022

11b_Ant2_2437



20:26:56 01.07.2022

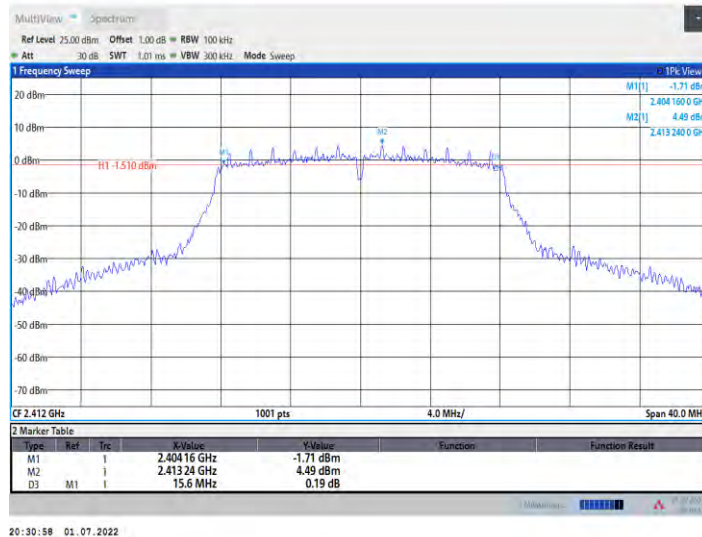


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11b Ant2_2462



11g Ant2_2412



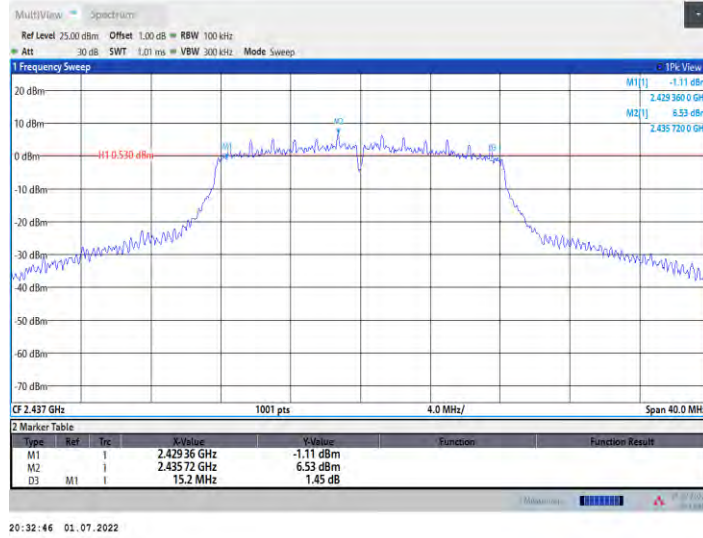
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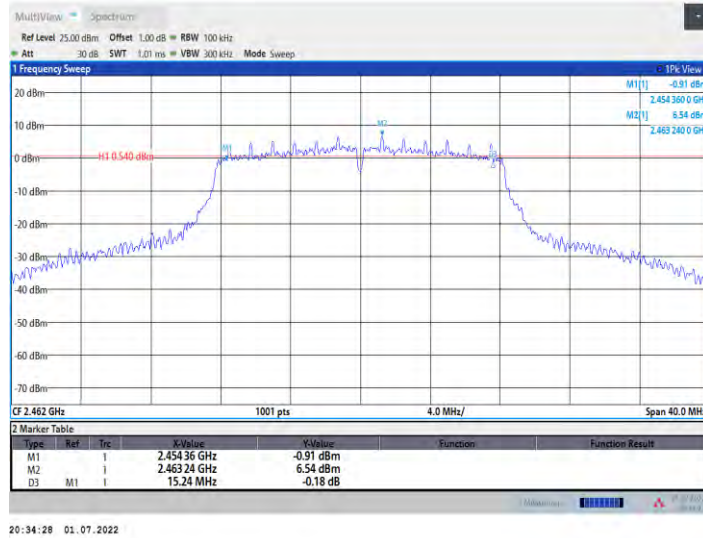
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11g Ant2_2437



11g Ant2_2462



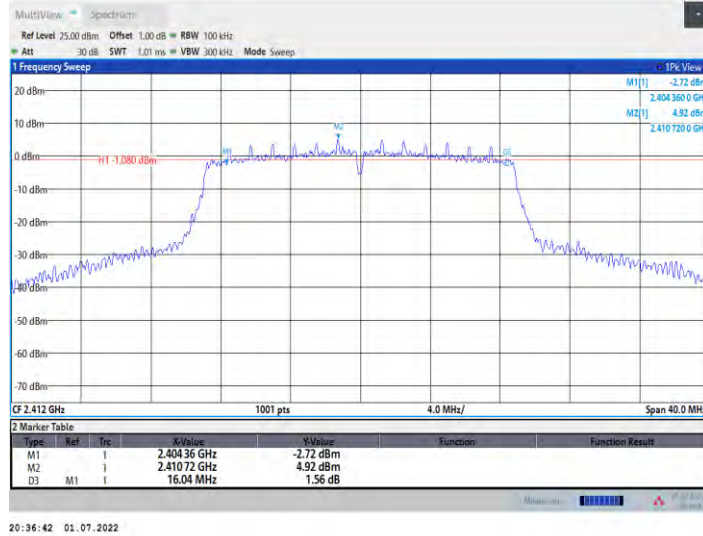
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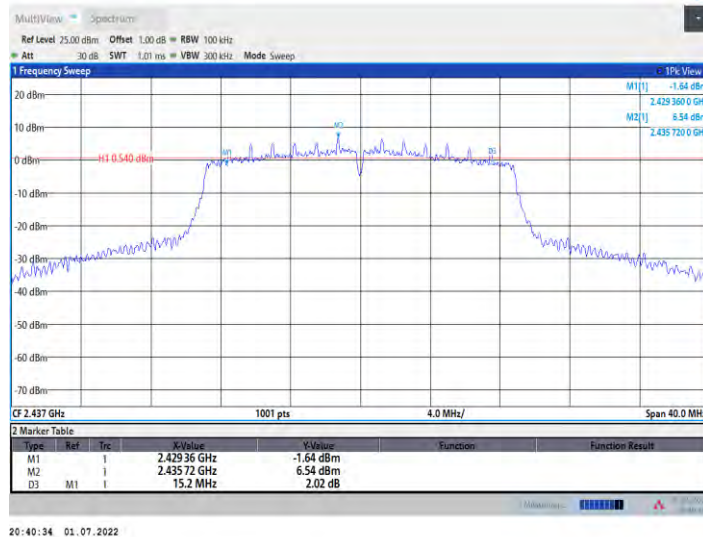
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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437



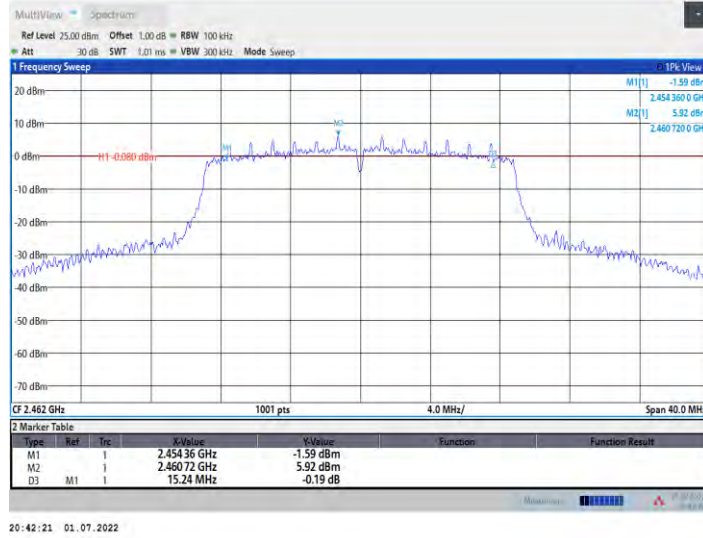
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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant2	2412	12.566	2405.714	2418.280	---	
		2437	12.462	2430.724	2443.186	---	
		2462	12.544	2455.743	2468.288	---	
11g	Ant2	2412	17.237	2403.370	2420.608	---	
		2437	17.188	2428.351	2445.539	---	
		2462	17.234	2453.368	2470.601	---	
11n20SISO	Ant2	2412	18.063	2402.984	2421.046	---	
		2437	17.992	2427.959	2445.952	---	
		2462	18.02	2452.980	2471.000	---	



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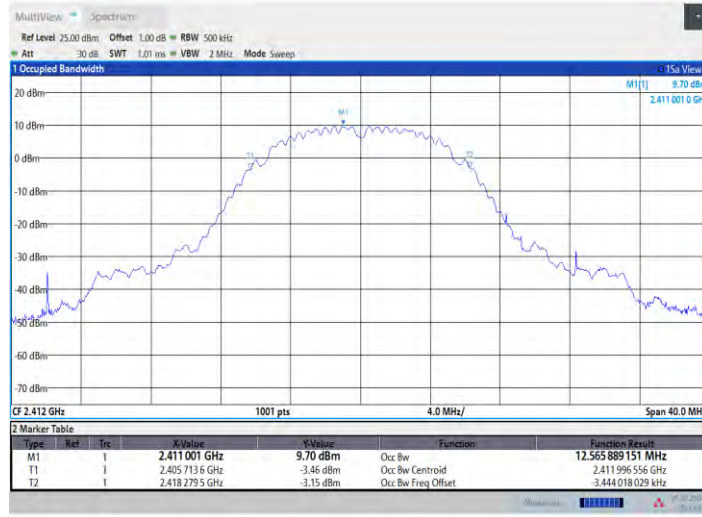
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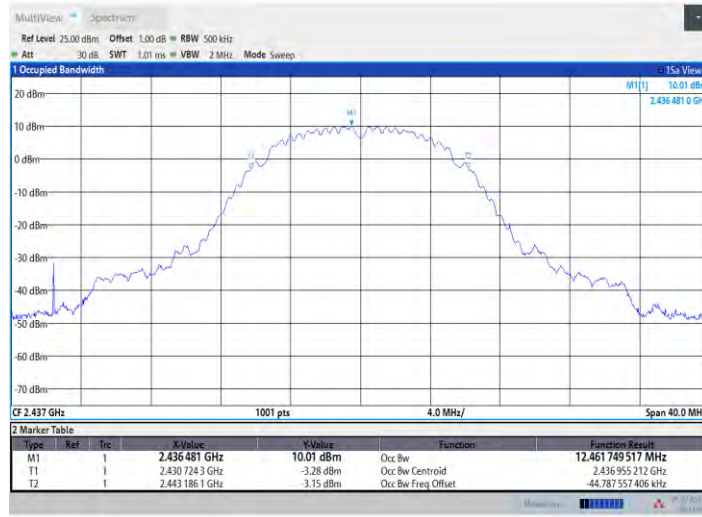
Test Graphs

11b Ant2 2412



20:23:37 01.07.2022

11b Ant2 2437



20:27:07 01.07.2022

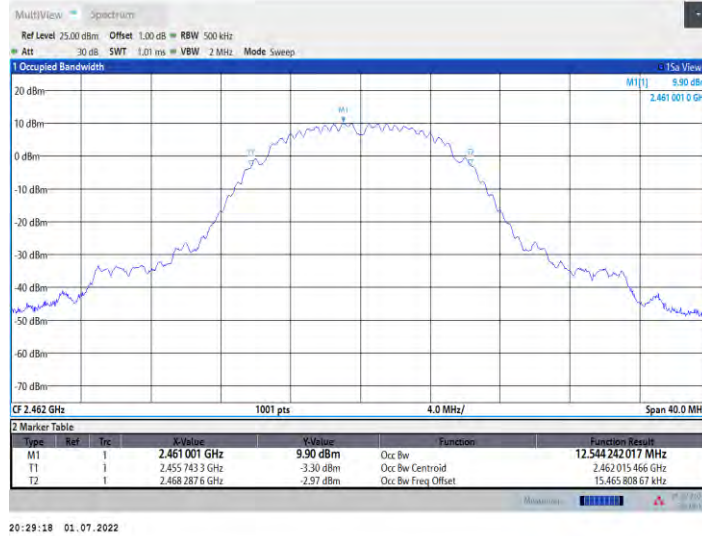


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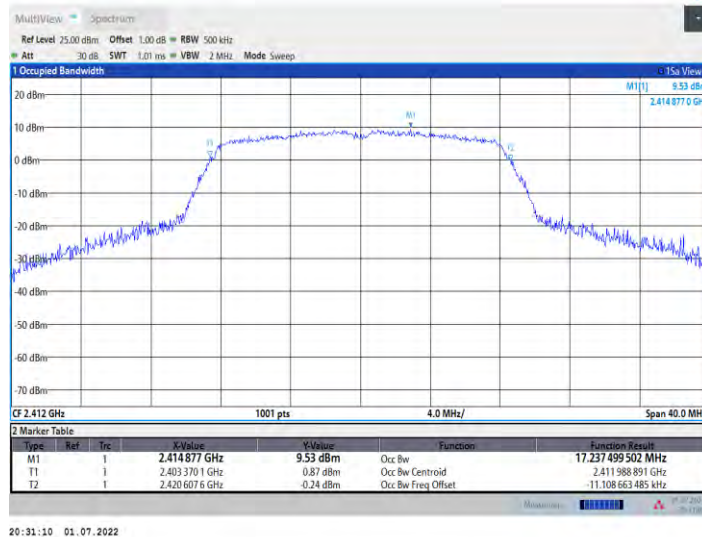
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11b Ant2_2462



11g Ant2_2412

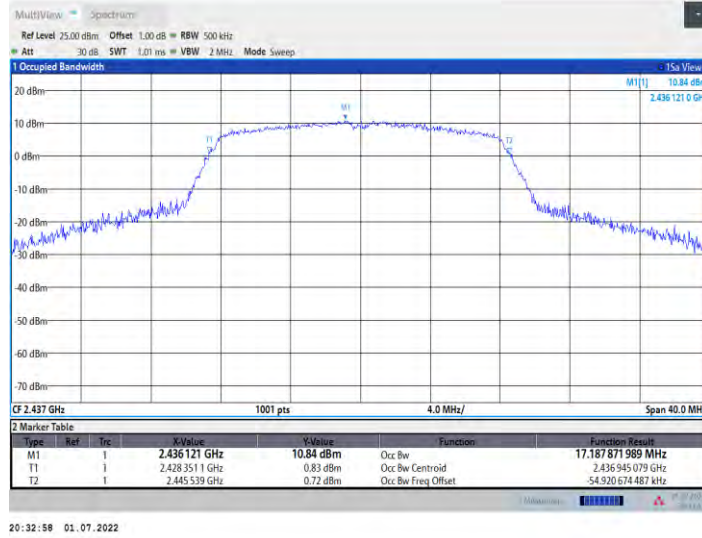


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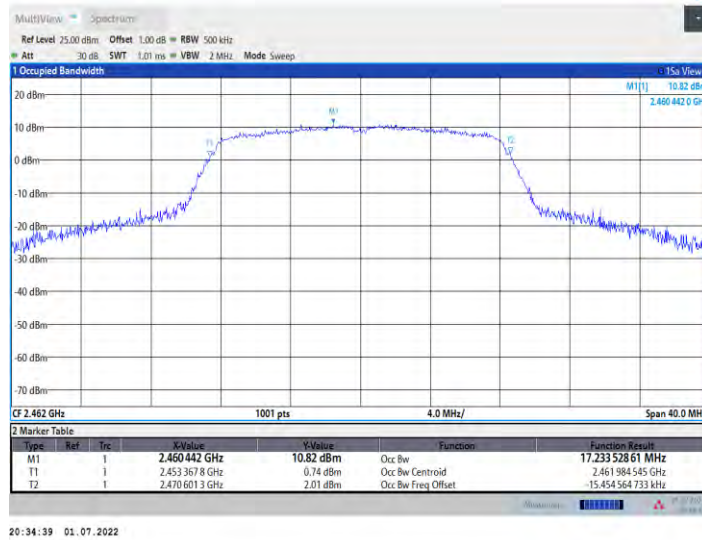
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11g_Ant2_2437



11g_Ant2_2462

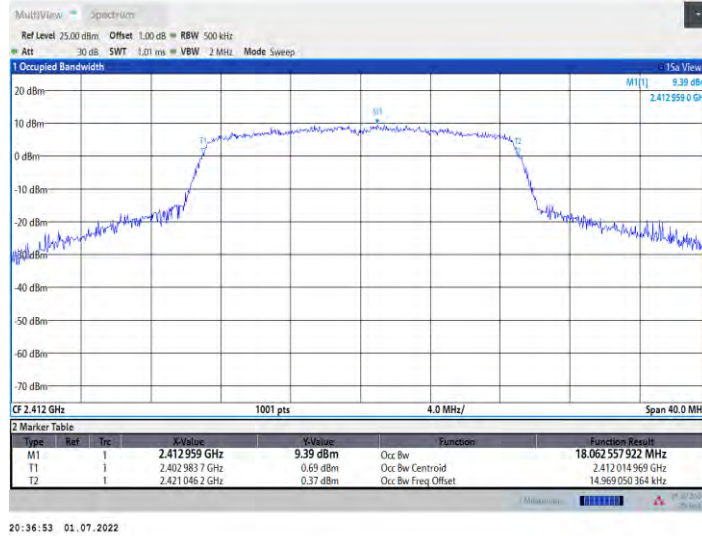


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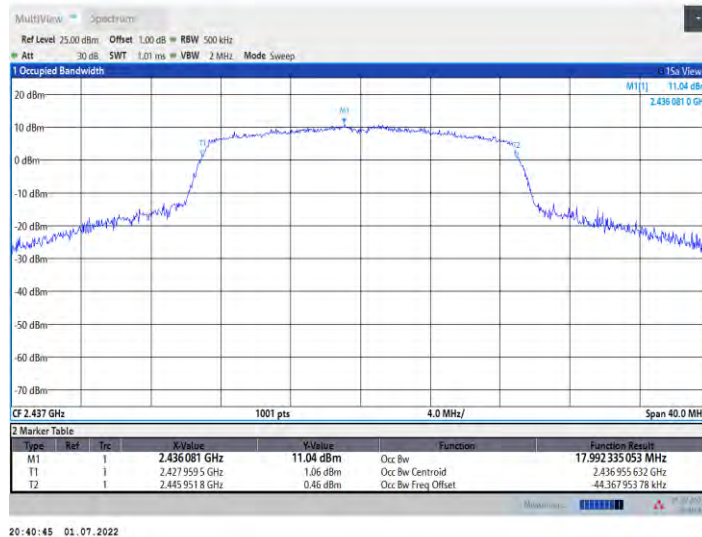
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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437



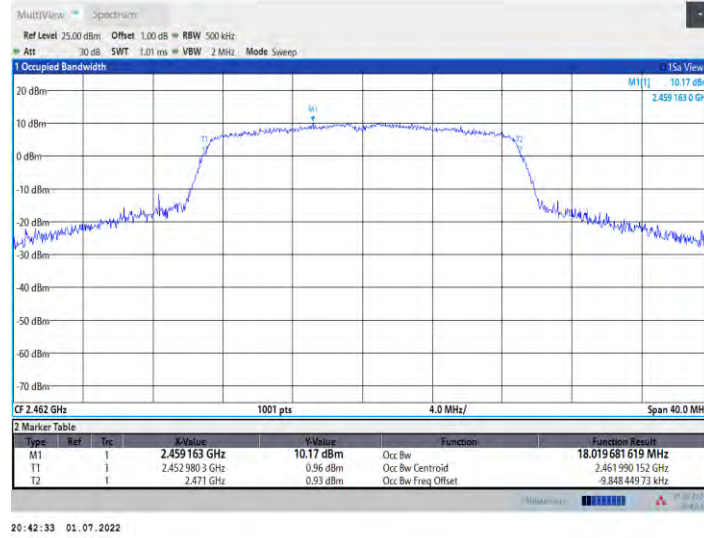
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Report No.: SEWM2206000075RG04

Rev.: 01

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant2	2412	20.62	≤30.00	PASS
		2437	20.57	≤30.00	PASS
		2462	20.55	≤30.00	PASS
11g	Ant2	2412	23.39	≤30.00	PASS
		2437	23.78	≤30.00	PASS
		2462	23.69	≤30.00	PASS
11n20SISO	Ant2	2412	23.23	≤30.00	PASS
		2437	23.45	≤30.00	PASS
		2462	23.51	≤30.00	PASS



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Report No.: SEWM2206000075RG04

Rev.: 01

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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant2	2412	-5.48	≤8.00	PASS
		2437	-4.85	≤8.00	PASS
		2462	-5.28	≤8.00	PASS
11g	Ant2	2412	-9.66	≤8.00	PASS
		2437	-8.18	≤8.00	PASS
		2462	-8.27	≤8.00	PASS
11n20SISO	Ant2	2412	-9.27	≤8.00	PASS
		2437	-8.12	≤8.00	PASS
		2462	-8.86	≤8.00	PASS



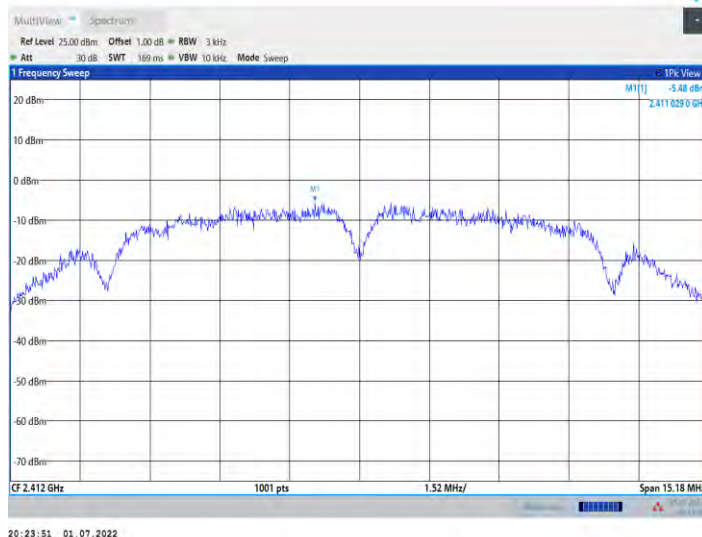
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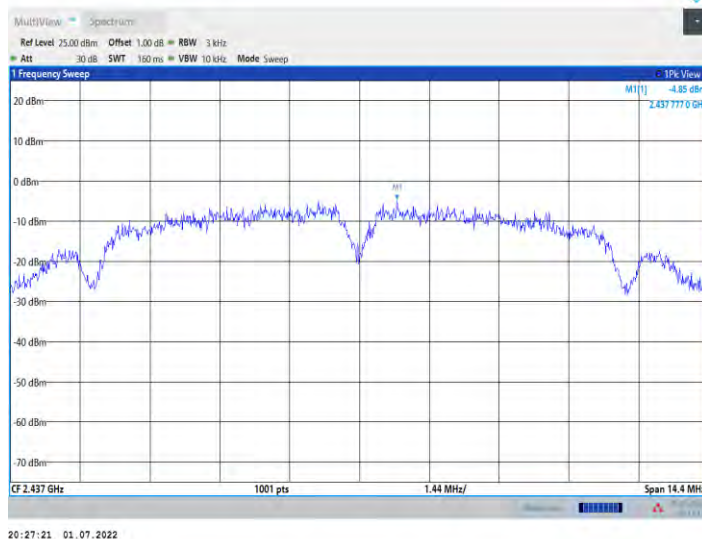
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Test Graphs

11b_Ant2_2412

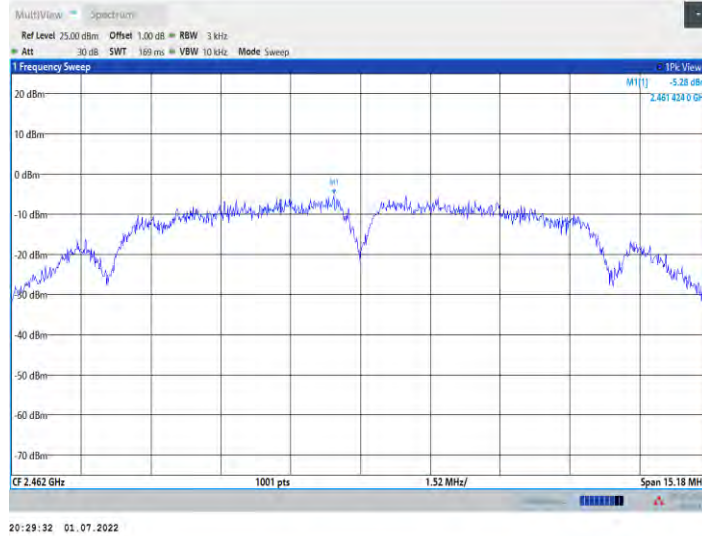


11b_Ant2_2437

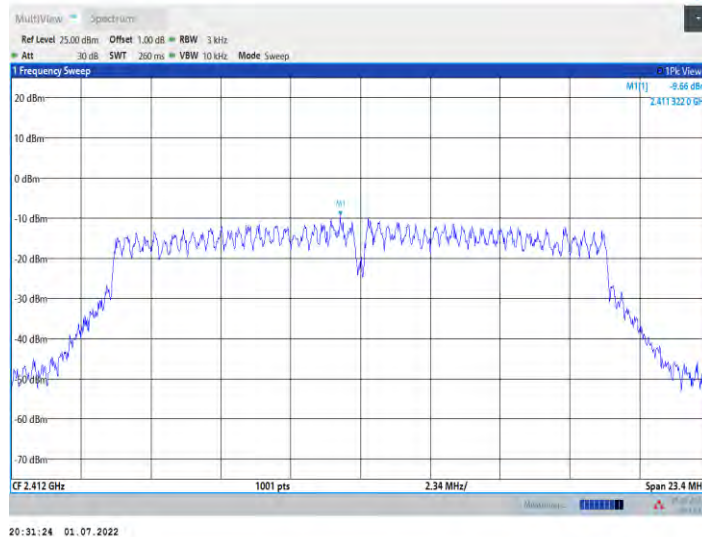


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11b Ant2_2462

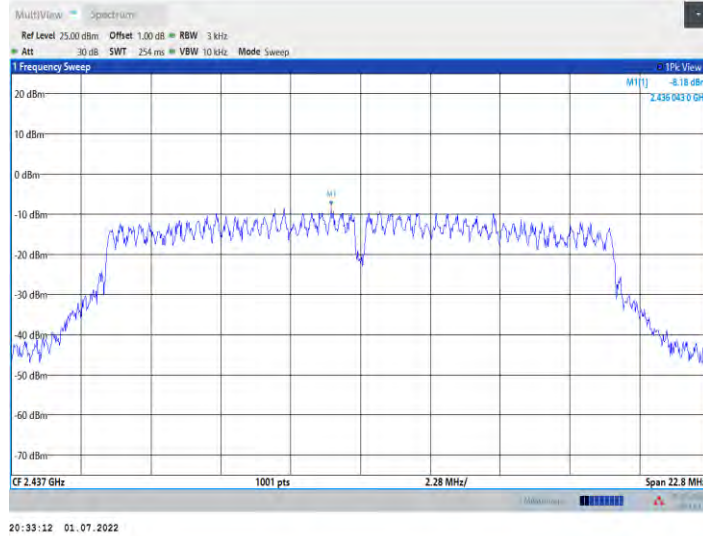


11g Ant2_2412

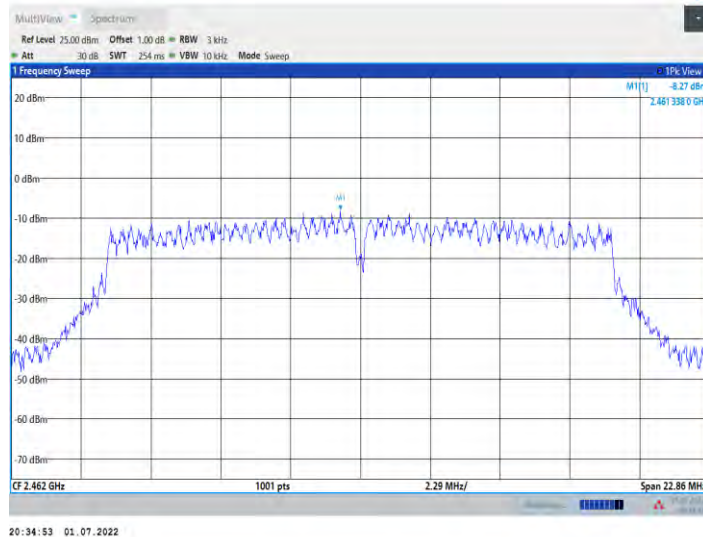


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11g_Ant2_2462

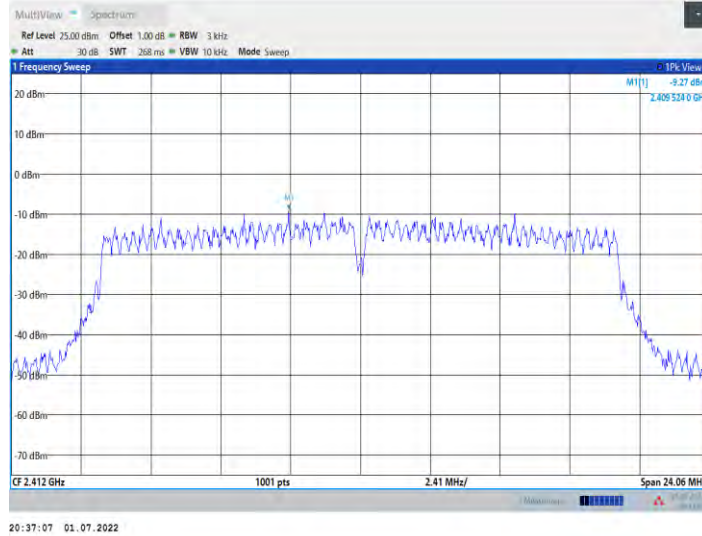


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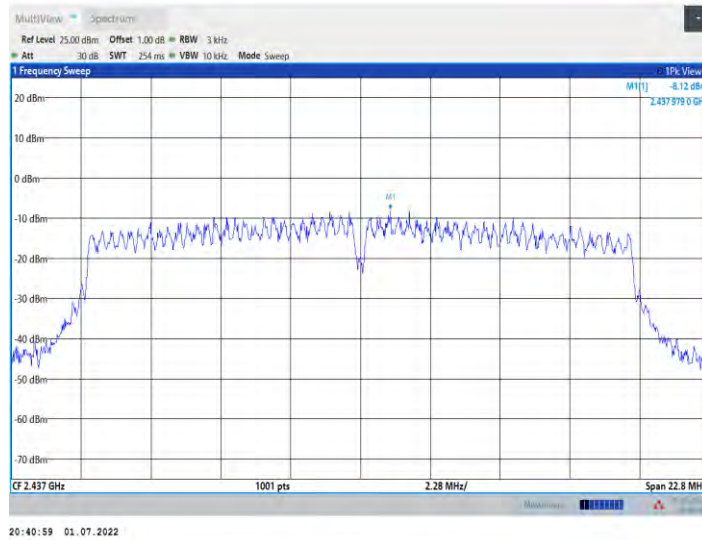
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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437

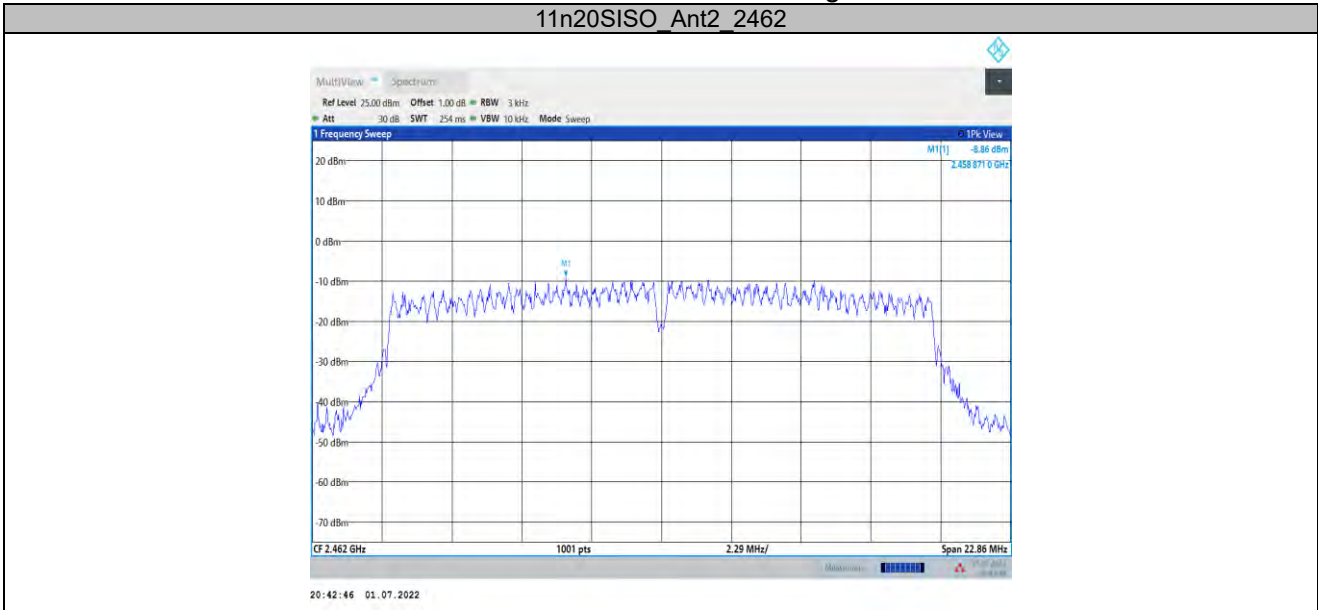


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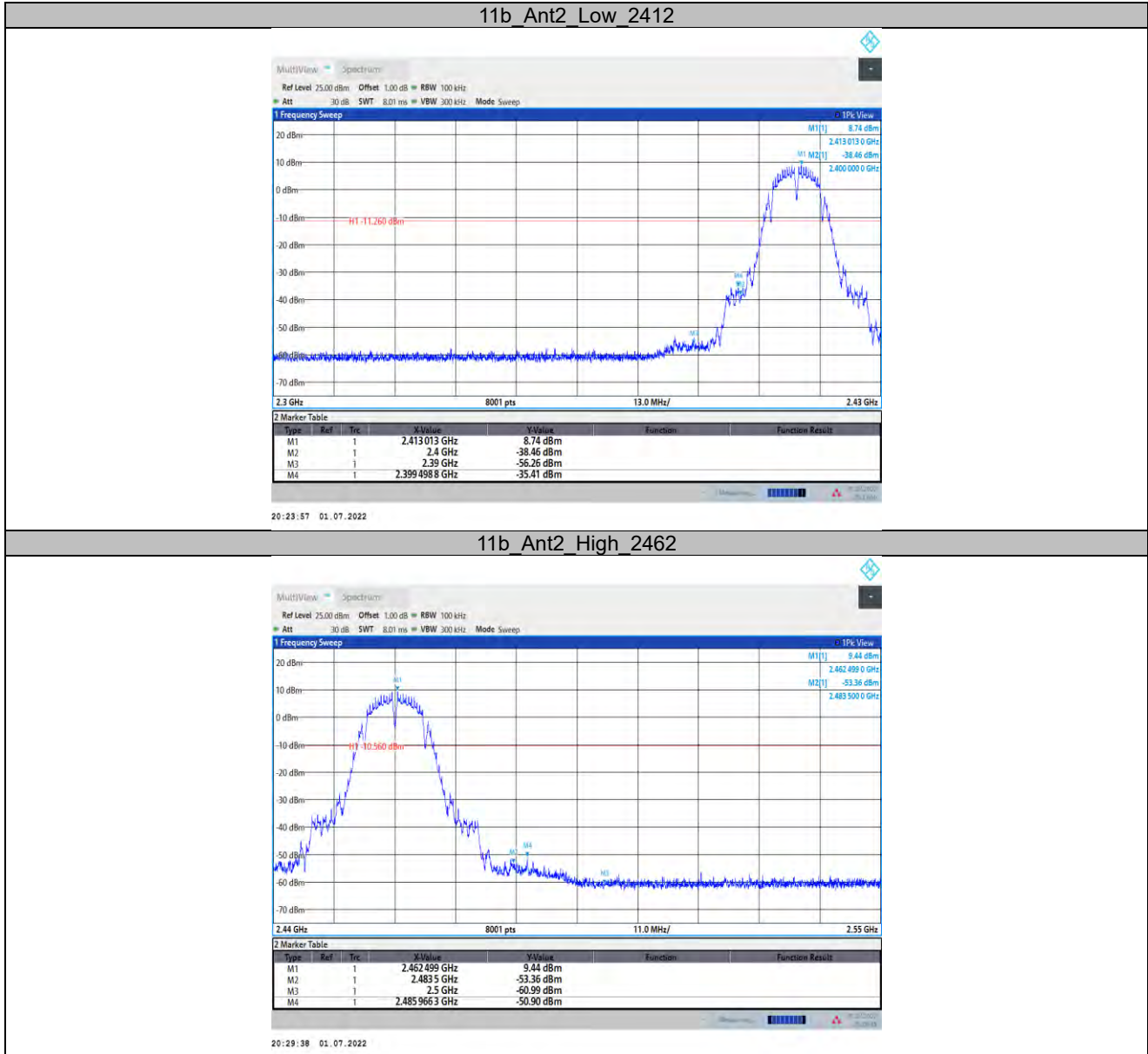
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Band edge measurements

Test Graphs

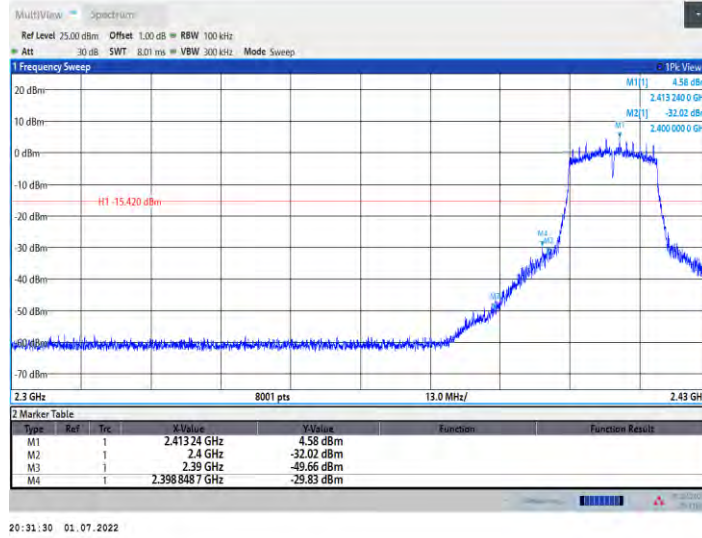


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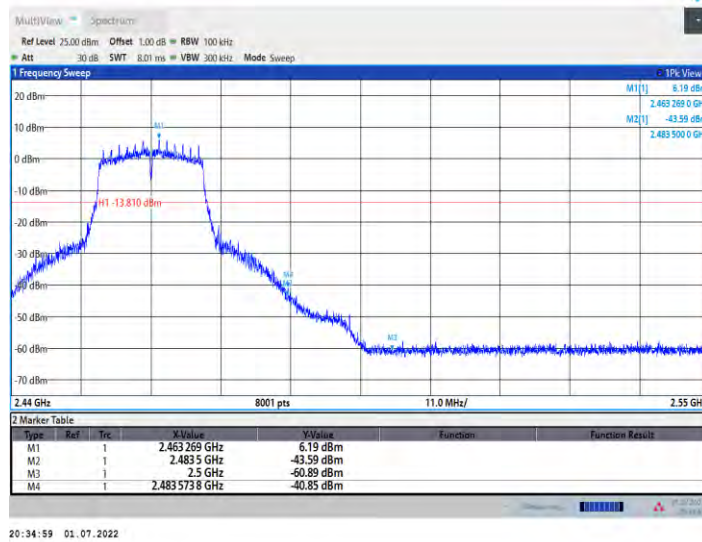
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11g_Ant2_Low_2412



11g_Ant2_High_2462



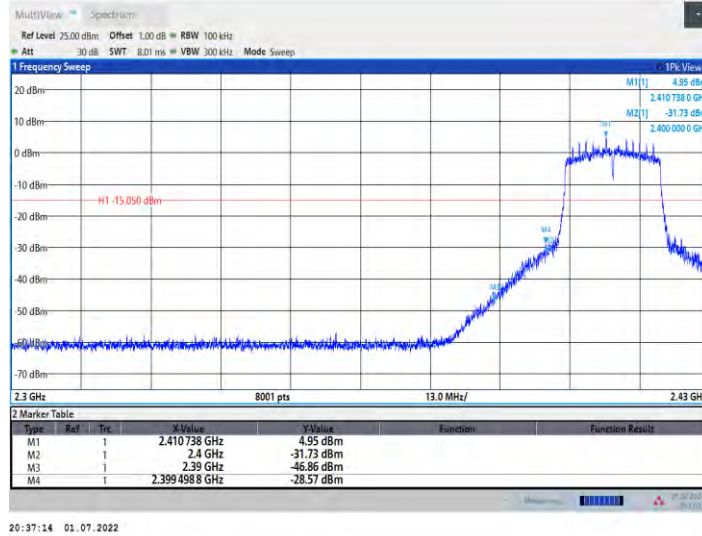
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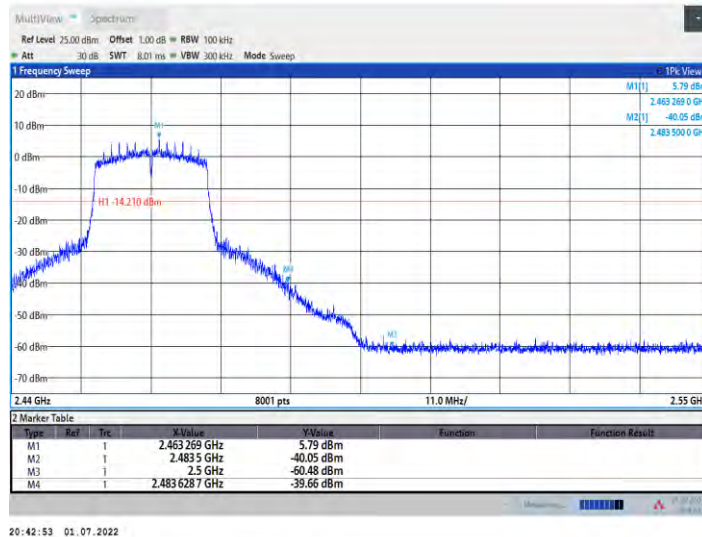
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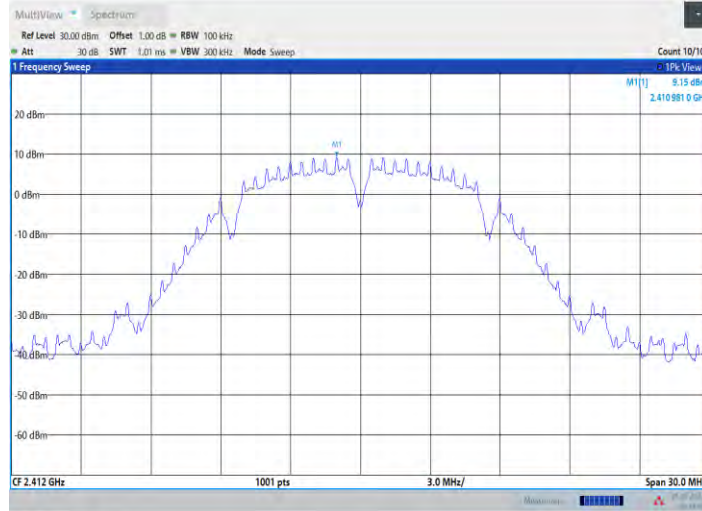
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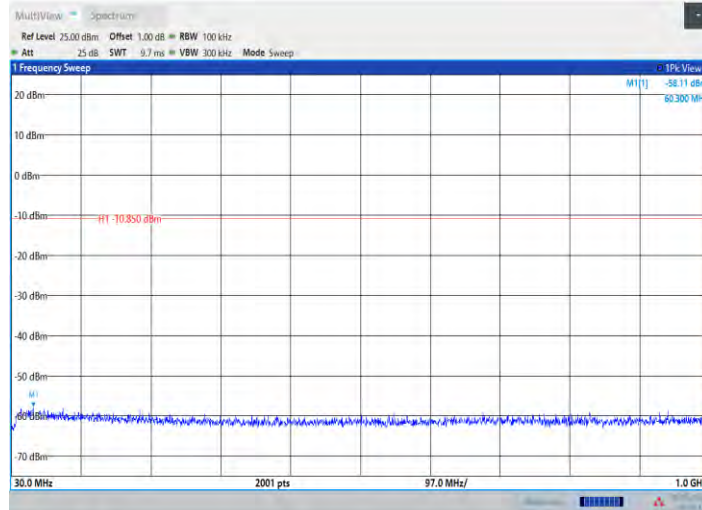
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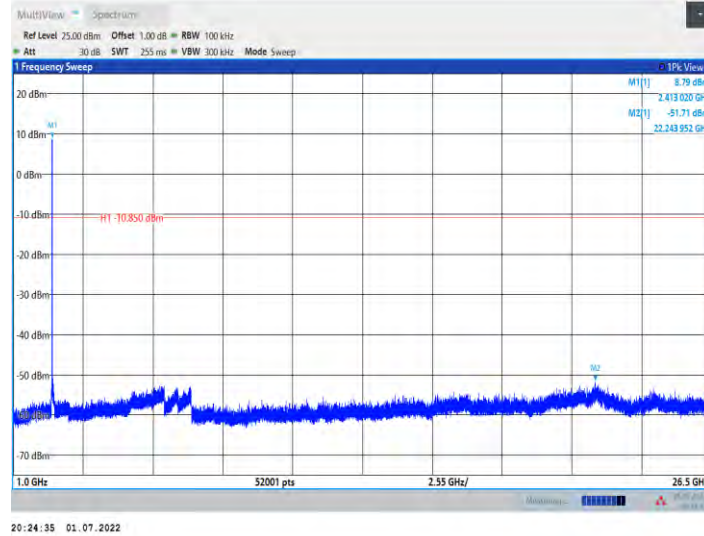


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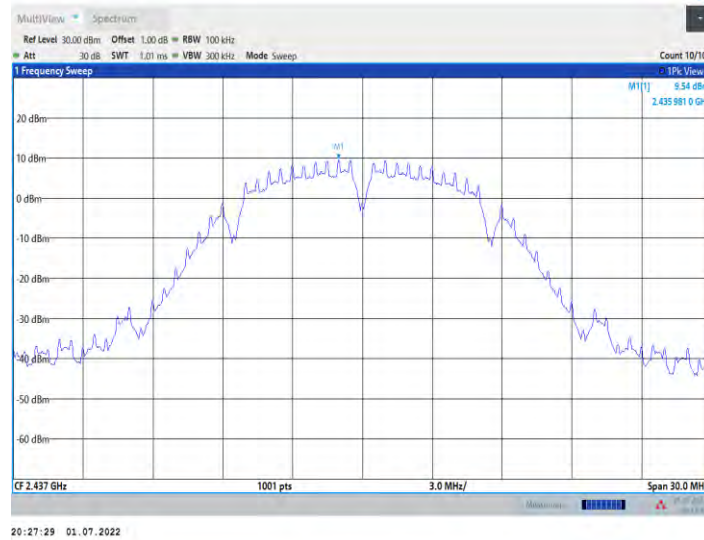


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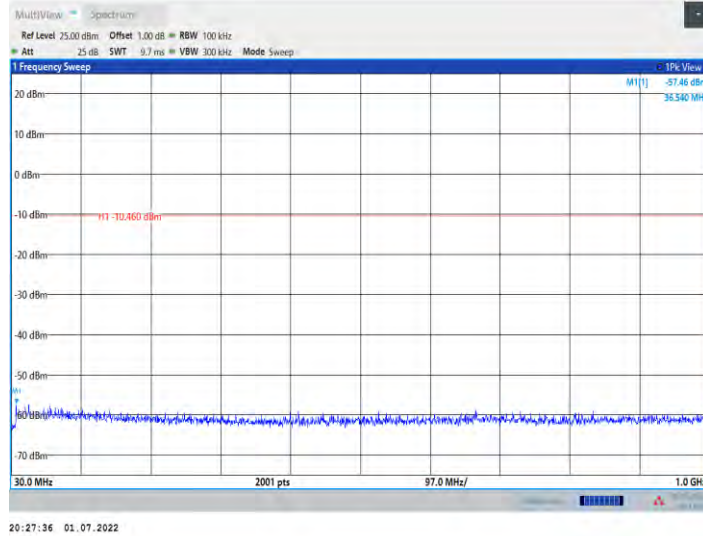


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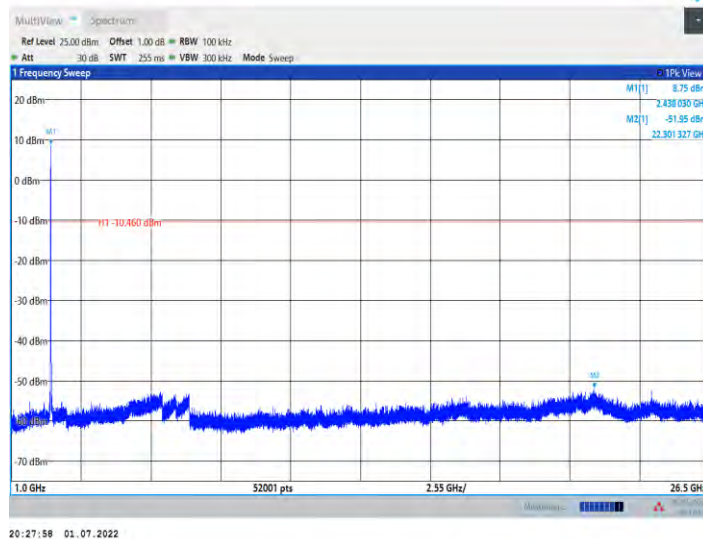
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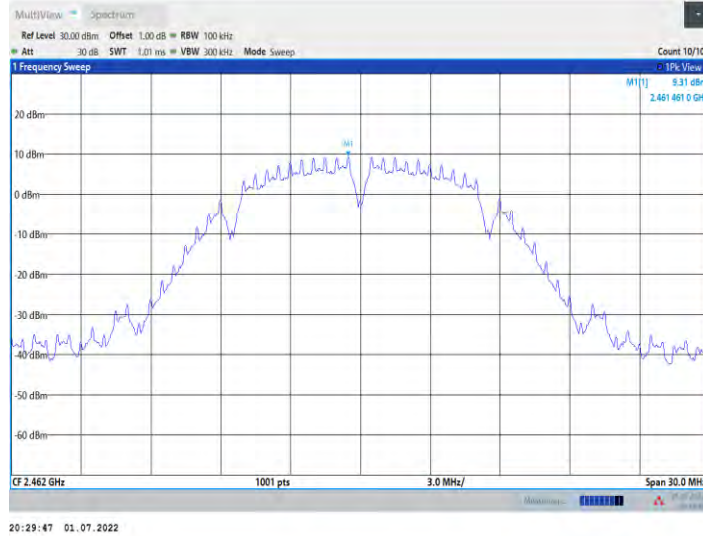


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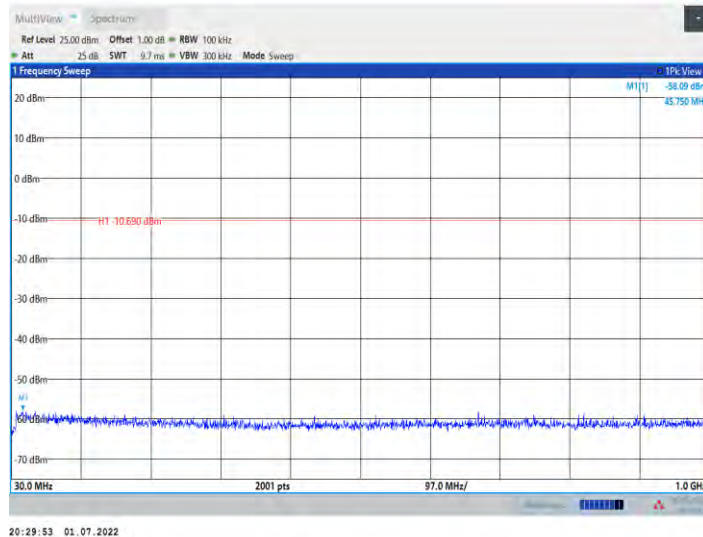
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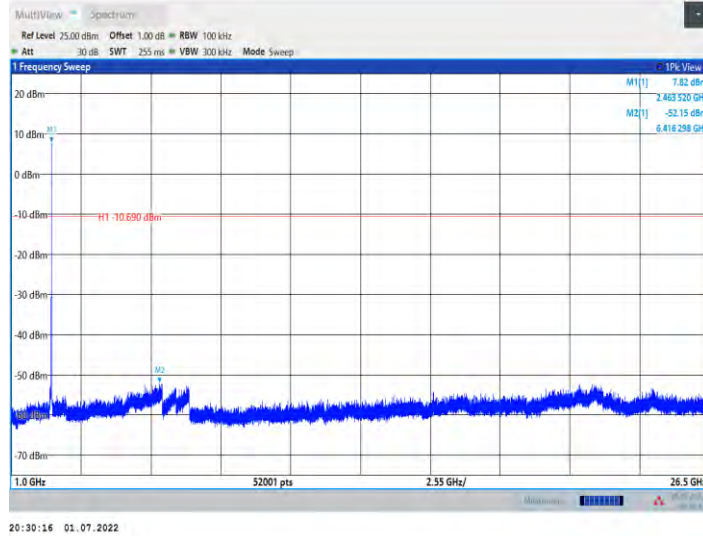


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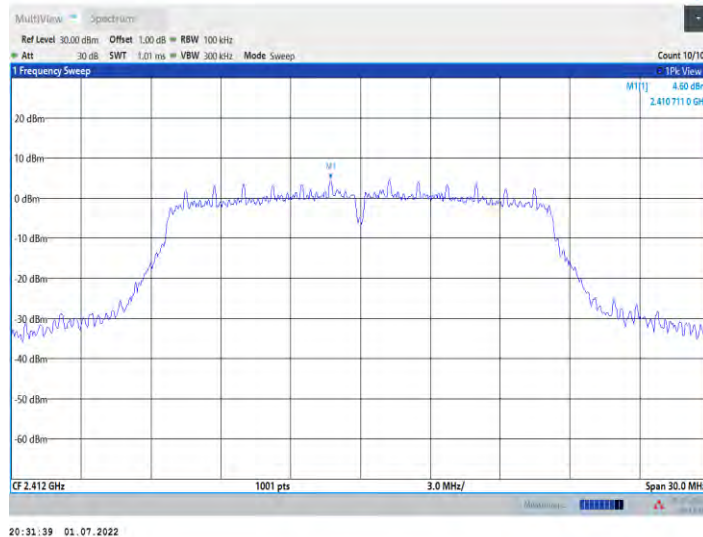
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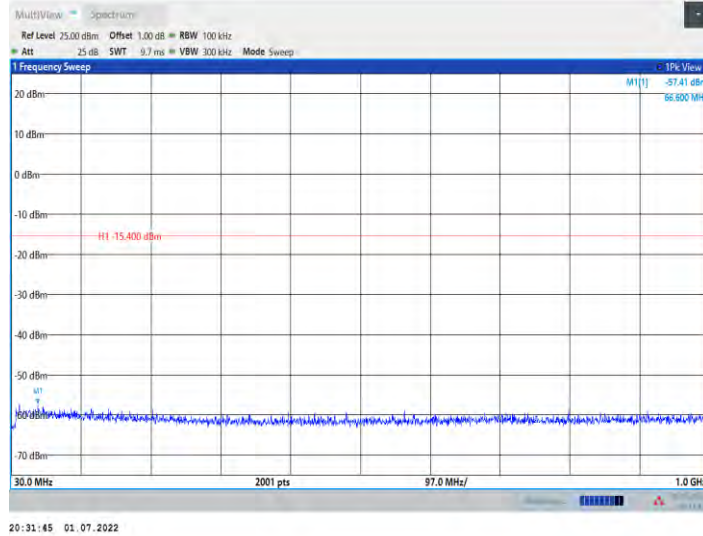


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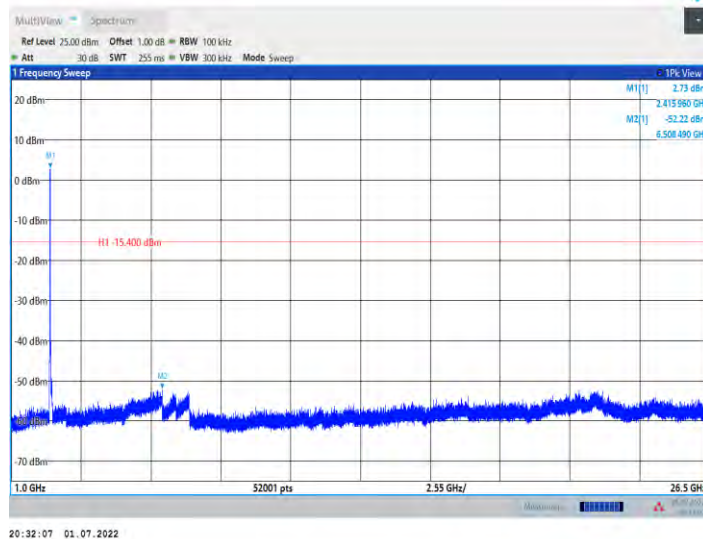
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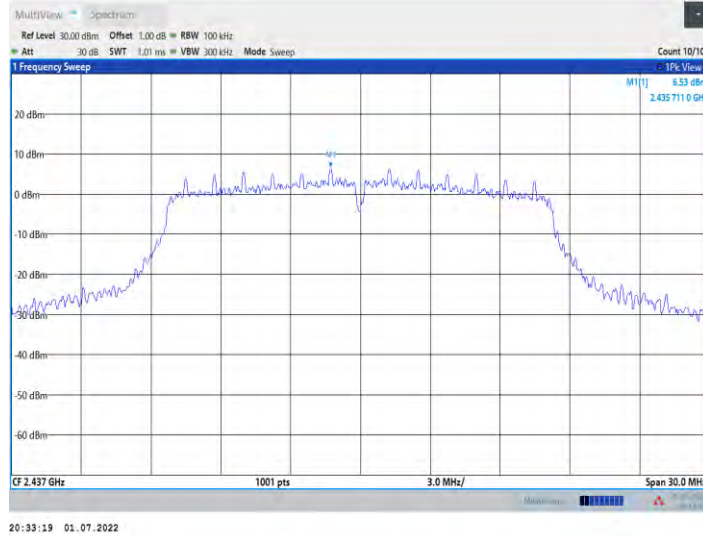
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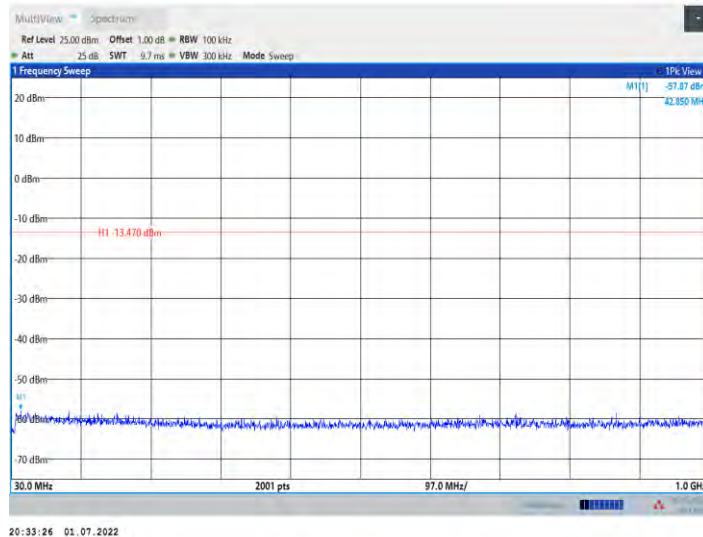
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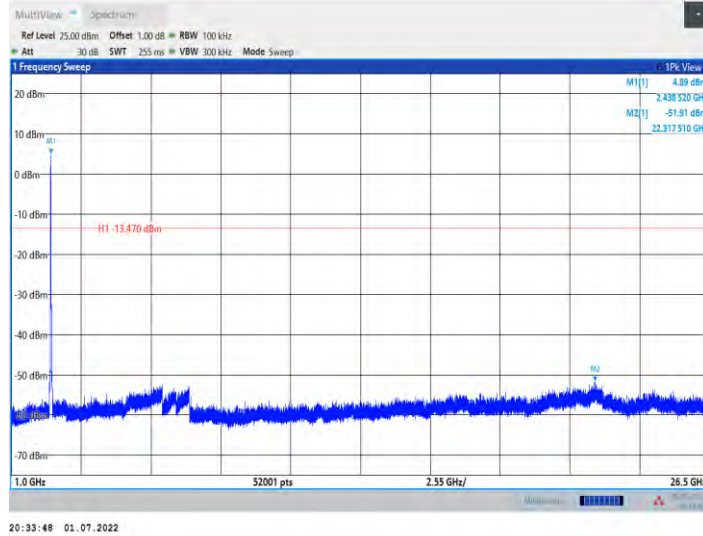


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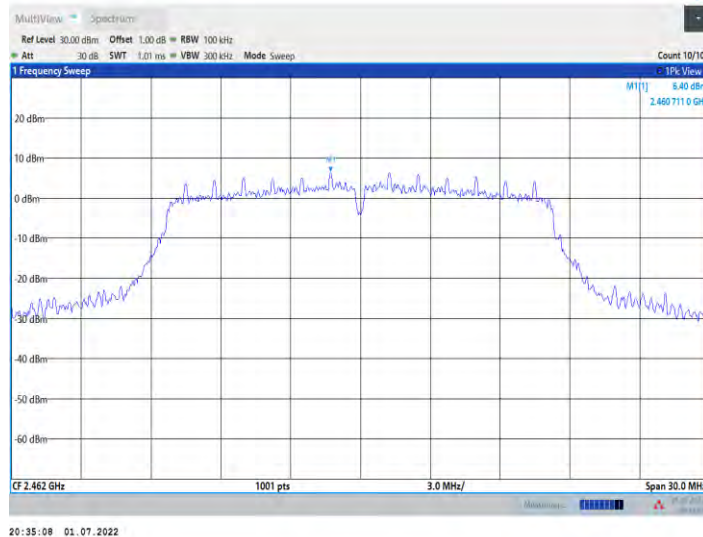
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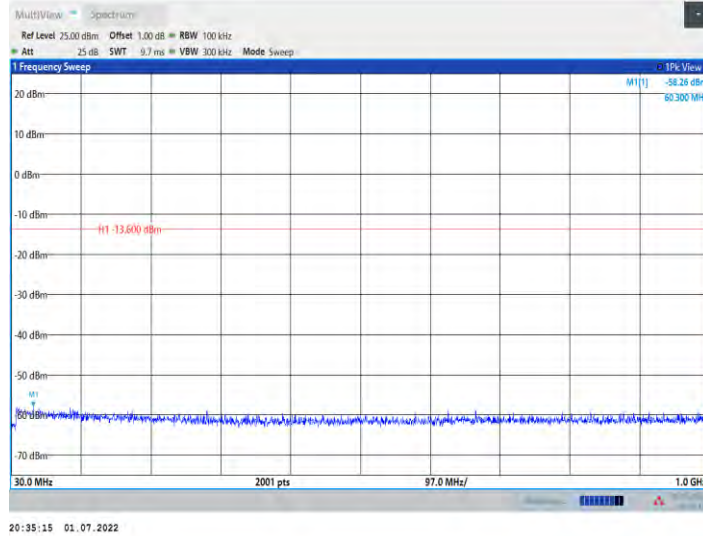


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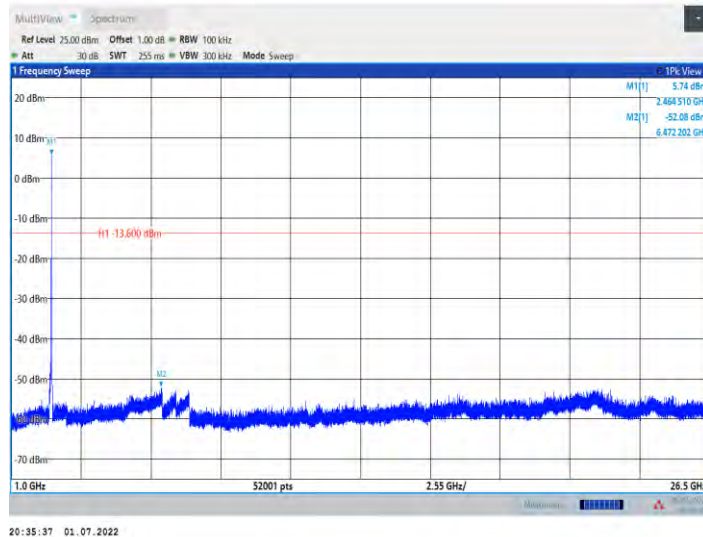
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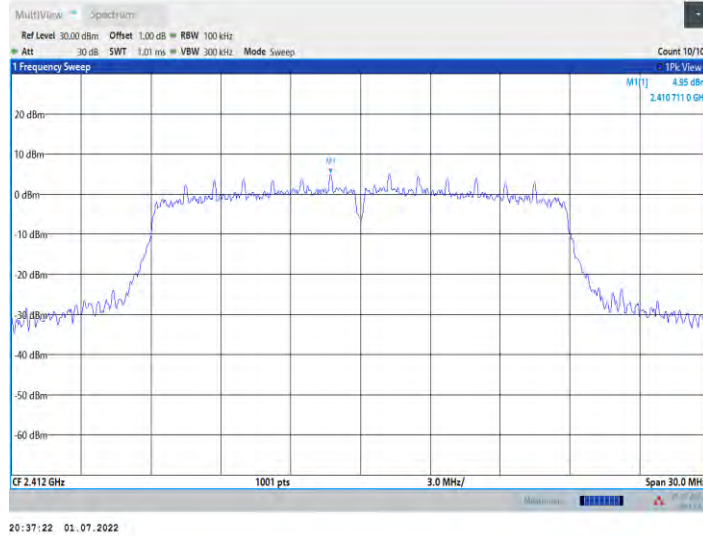


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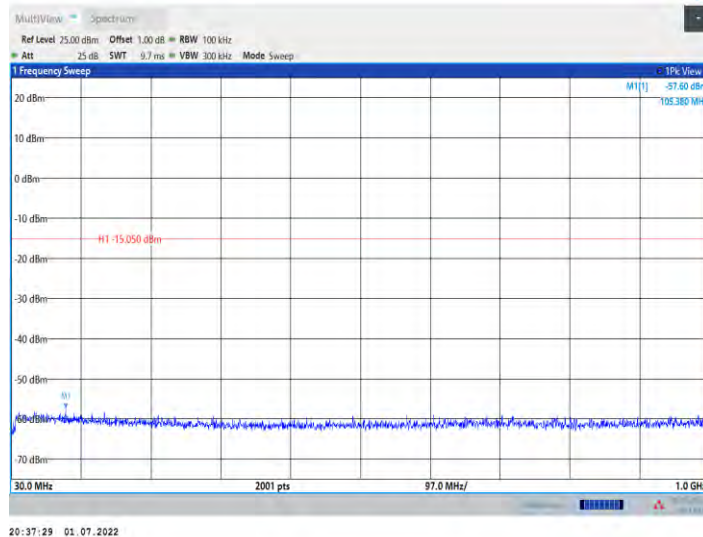
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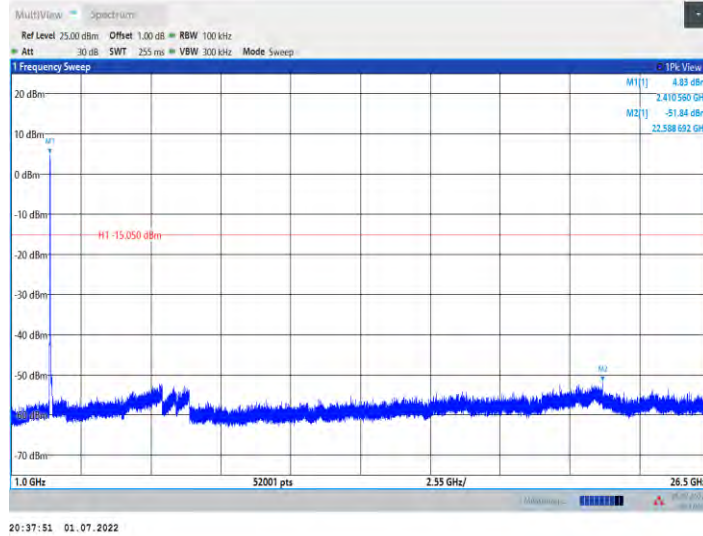


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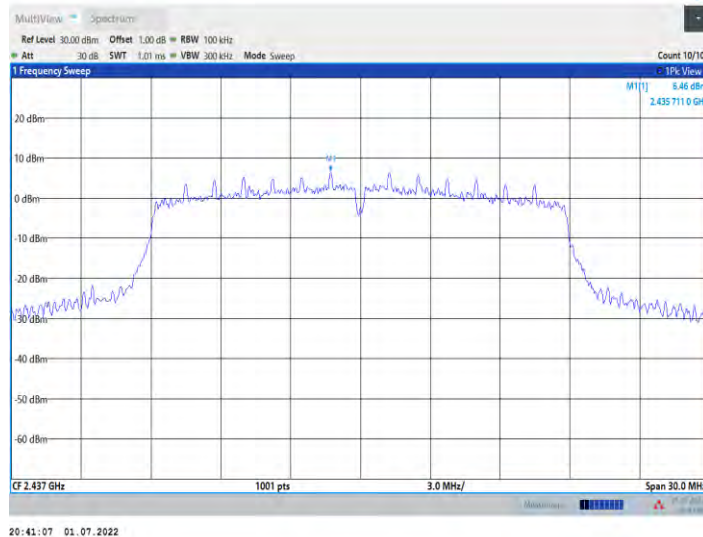
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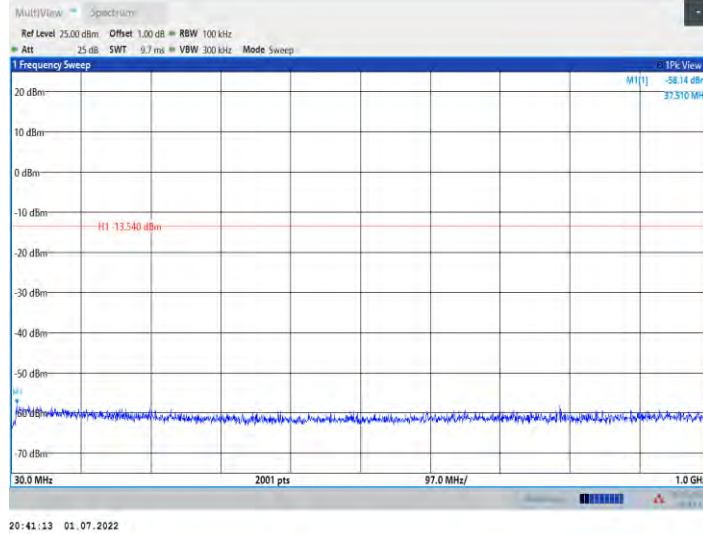


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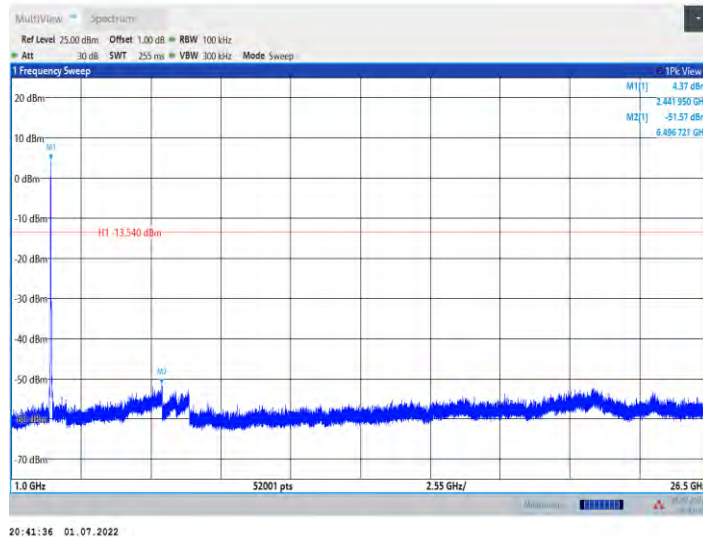
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11n20SISO_Ant2_2437_30~1000



11n20SISO_Ant2_2437_1000~26500



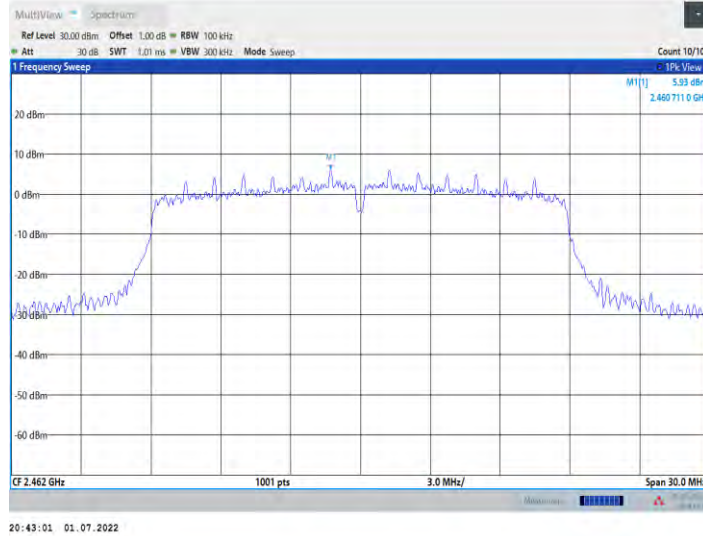
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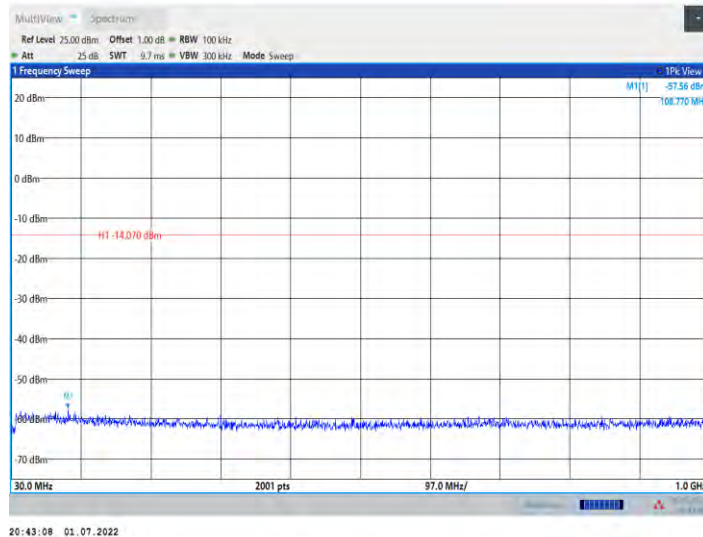
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11n20SISO_Ant2_2462_0~Reference



11n20SISO_Ant2_2462_30~1000

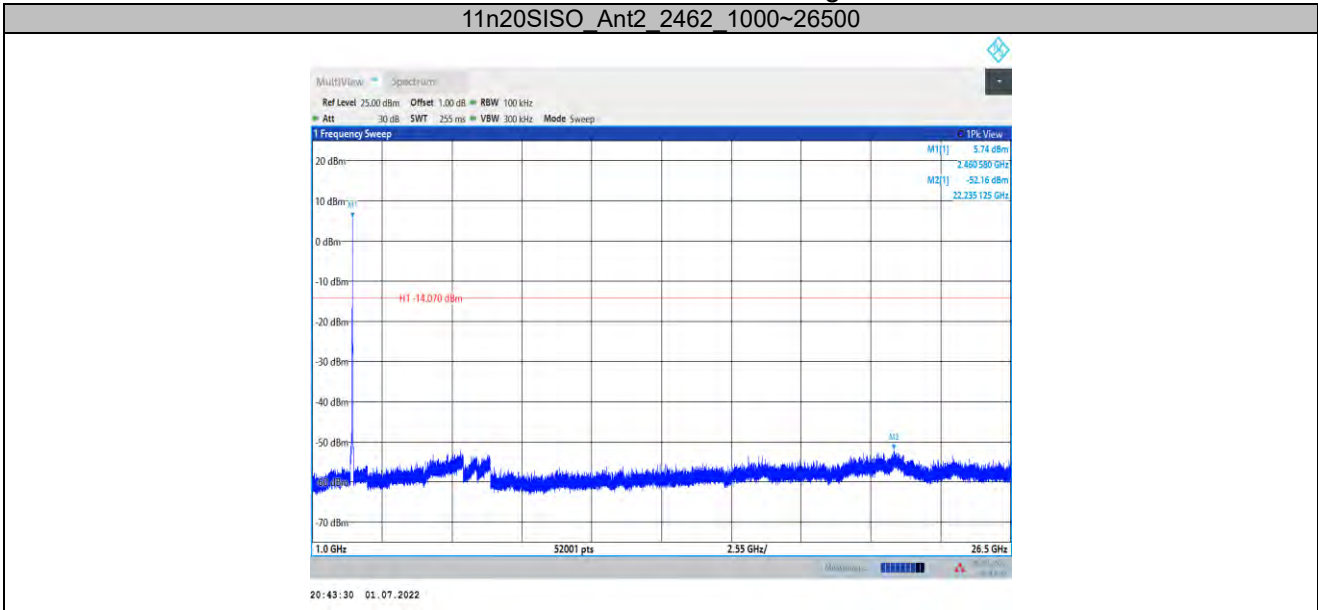


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11n20SISO_Ant2_2462_1000~26500



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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant2	2412	8.38	8.42	99.52
11g	Ant2	2412	1.39	1.43	97.20
11n20SISO	Ant2	2412	1.30	1.34	97.01

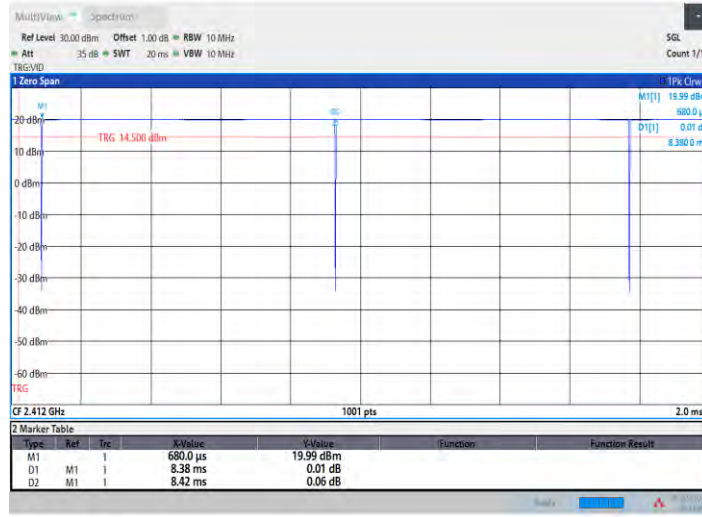


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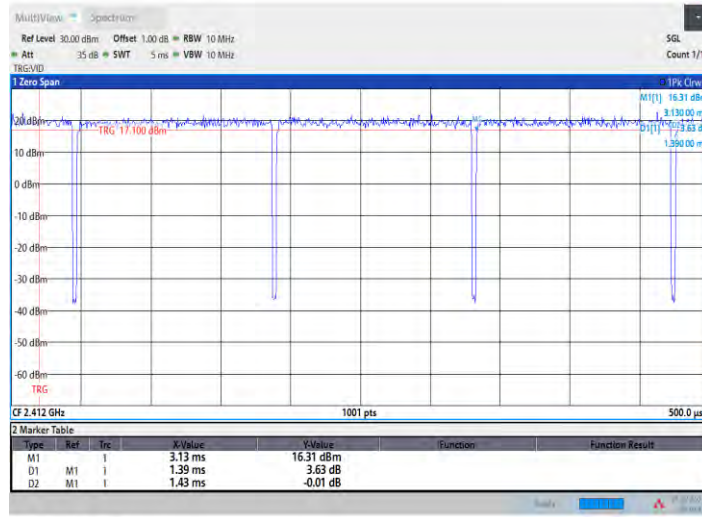
Test Graphs

11b Ant2_2412



20:22:03 01.07.2022

11g Ant2_2412



20:30:48 01.07.2022



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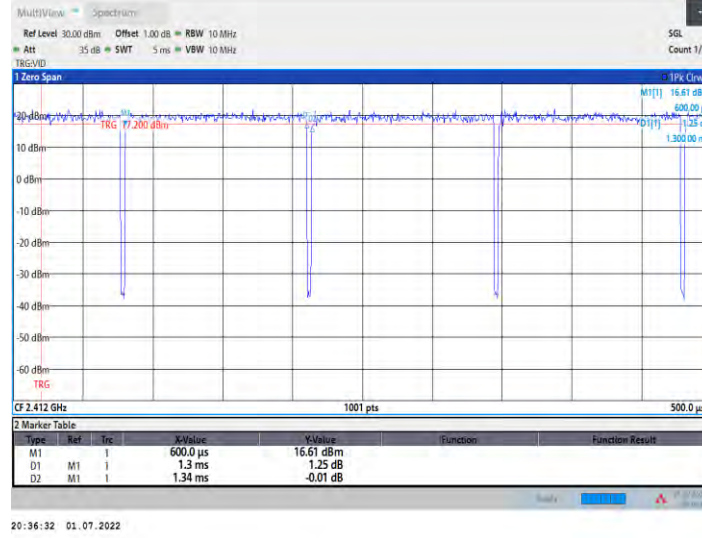
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Report No.: SEWM2206000075RG04

Rev.: 01

Page: 69 of 101

11n20SISO_Ant2_2412



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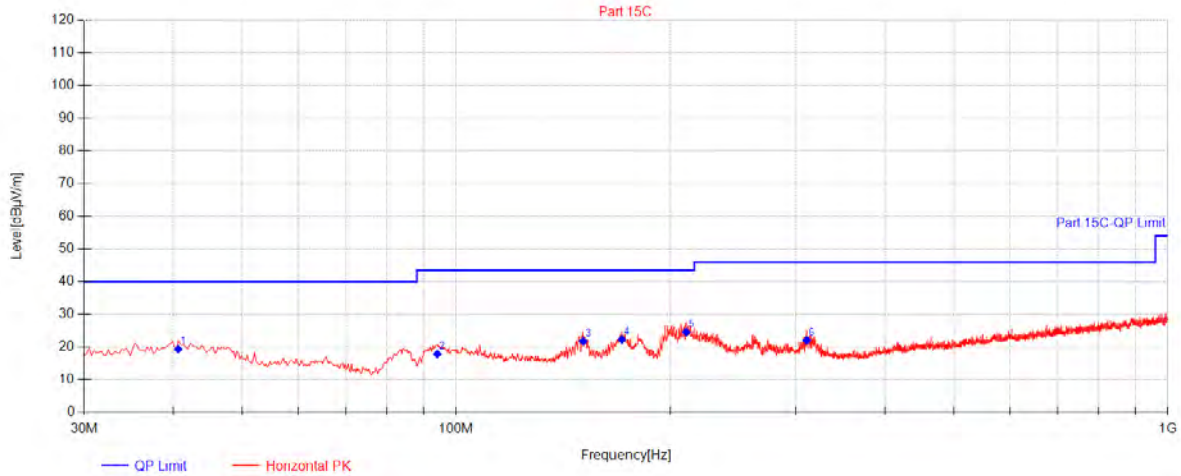
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11n20_Channel 01



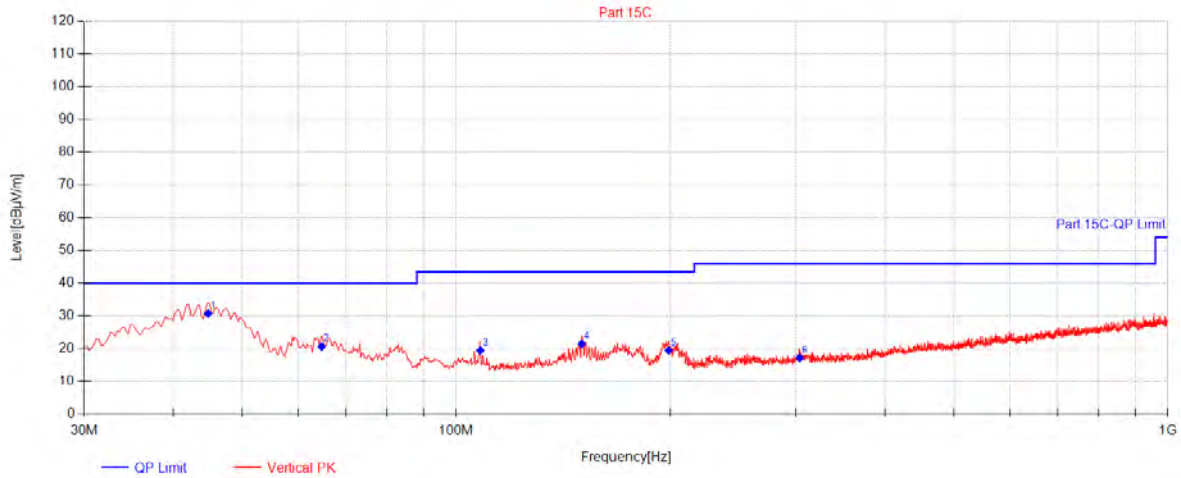
Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	40.67	41.56	-22.25	19.31	40.00	20.69	124	129	Horizontal
2	94.02	44.23	-26.44	17.79	43.50	25.71	157	159	Horizontal
3	150.765	43.14	-21.39	21.75	43.50	21.75	137	0	Horizontal
4	170.8925	43.02	-20.71	22.31	43.50	21.19	147	268	Horizontal
5	210.42	49.27	-24.76	24.51	43.50	18.99	137	11	Horizontal
6	310.815	43.27	-21.23	22.04	46.00	23.96	155	206	Horizontal



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Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.7925	53.24	-22.54	30.70	40.00	9.30	124	210	Vertical
2	64.6775	45.27	-24.61	20.66	40.00	19.34	137	273	Vertical
3	108.085	44.57	-25.13	19.44	43.50	24.06	157	11	Vertical
4	150.0375	42.87	-21.40	21.47	43.50	22.03	186	220	Vertical
5	198.78	44.43	-25.00	19.43	43.50	24.07	175	72	Vertical
6	303.7825	38.57	-21.42	17.15	46.00	28.85	167	232	Vertical

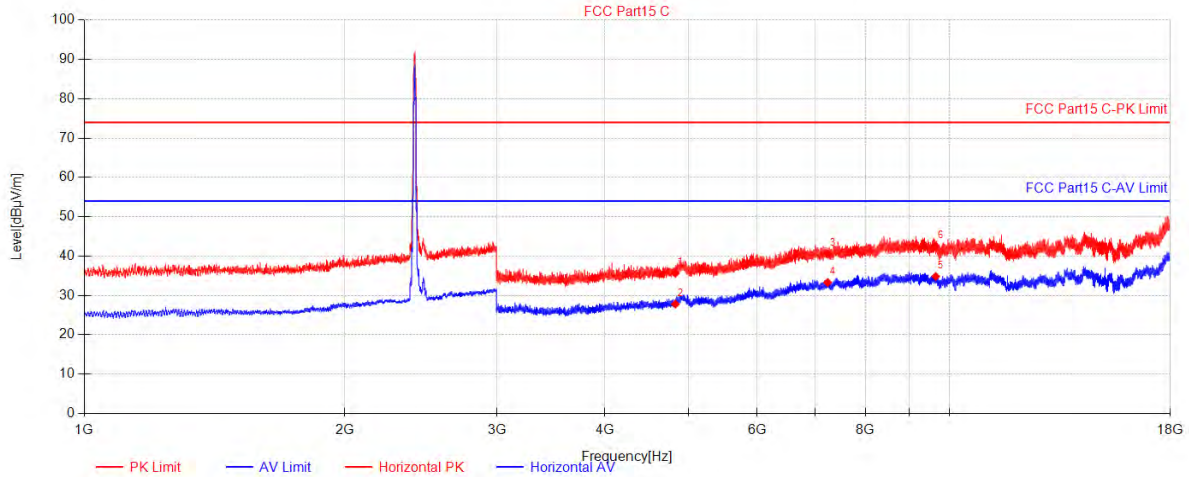


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Transmitter emission Above 1GHz

802.11b_Channel 01



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	48.78	-13.15	35.63	74.00	38.37	125	359	Horizontal
2	4824.0000	40.95	-13.15	27.80	54.00	26.20	211	256	Horizontal
3	7236.0000	47.48	-6.96	40.52	74.00	33.48	236	86	Horizontal
4	7236.0000	40.25	-6.96	33.29	54.00	20.71	172	45	Horizontal
5	9648.0000	36.01	-1.17	34.84	54.00	19.16	194	86	Horizontal
6	9648.0000	43.73	-1.17	42.56	74.00	31.44	145	318	Horizontal

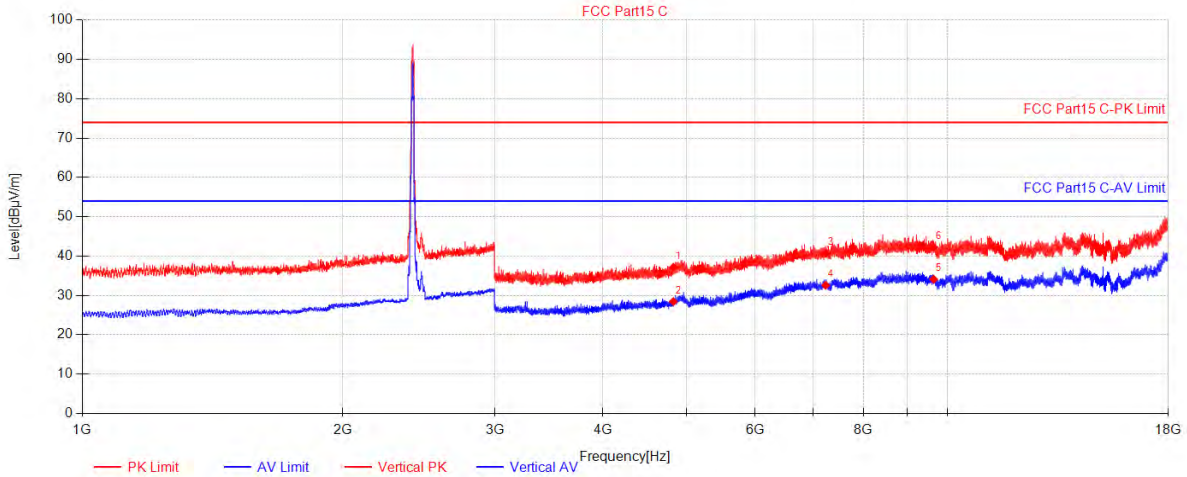


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802.11b_Channel 01



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	50.30	-13.15	37.15	74.00	36.85	125	359	Vertical
2	4824.0000	41.59	-13.15	28.44	54.00	25.56	172	339	Vertical
3	7236.0000	47.65	-6.96	40.69	74.00	33.31	142	214	Vertical
4	7236.0000	39.54	-6.96	32.58	54.00	21.42	194	151	Vertical
5	9648.0000	35.28	-1.17	34.11	54.00	19.89	164	66	Vertical
6	9648.0000	43.46	-1.17	42.29	74.00	31.71	236	24	Vertical

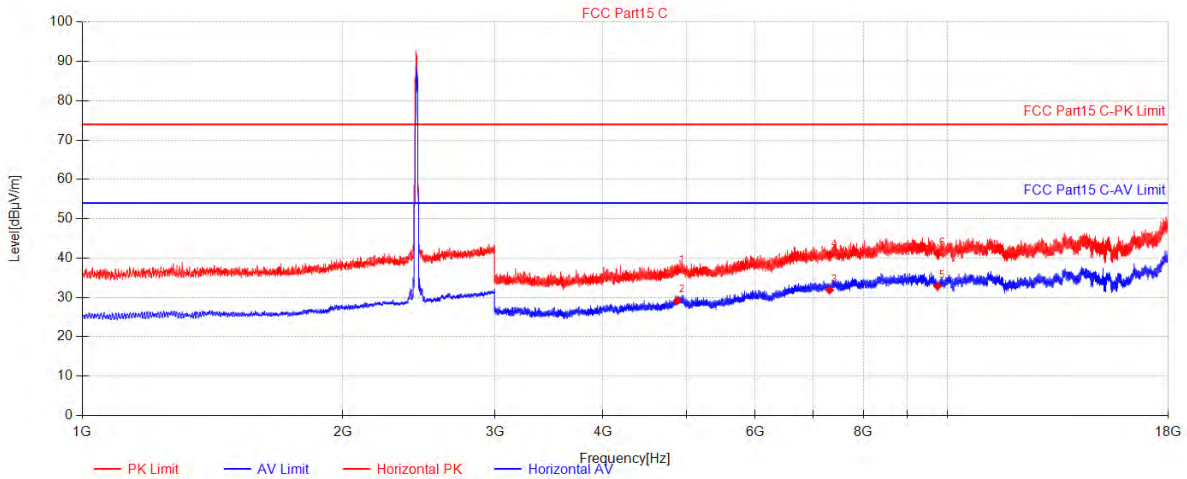


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802.11b_Channel 06



Final Data List									
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1	4874.0000	49.68	-13.01	36.67	74.00	37.33	148	359	Horizontal
2	4874.0000	42.17	-13.01	29.16	54.00	24.84	191	360	Horizontal
3	7311.0000	39.05	-7.17	31.88	54.00	22.12	265	108	Horizontal
4	7311.0000	48.03	-7.17	40.86	74.00	33.14	168	108	Horizontal
5	9748.0000	34.00	-1.18	32.82	54.00	21.18	233	234	Horizontal
6	9748.0000	42.32	-1.18	41.14	74.00	32.86	147	193	Horizontal

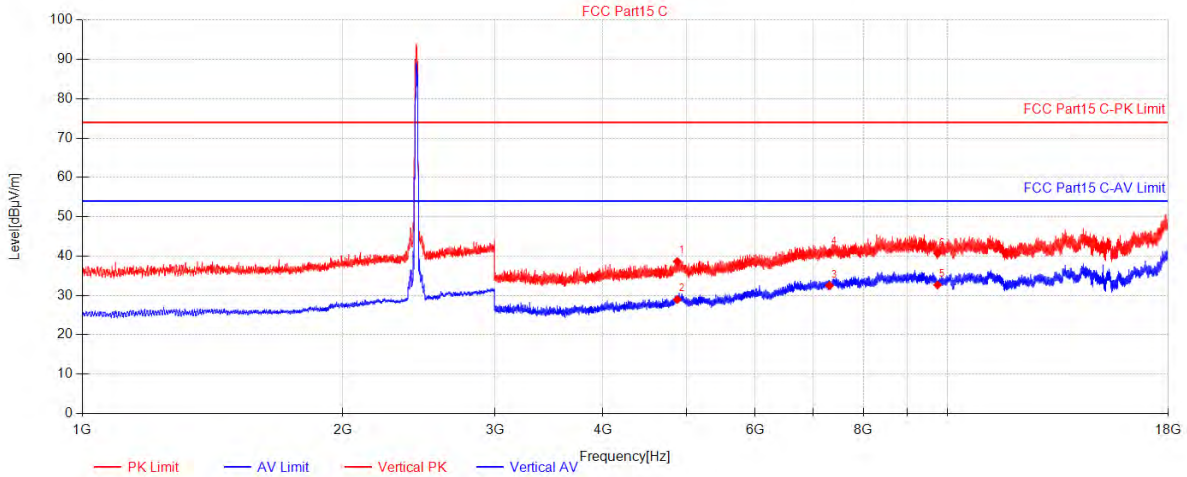


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802.11b_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.65	-13.01	38.64	74.00	35.36	166	214	Vertical
2	4874.0000	41.98	-13.01	28.97	54.00	25.03	102	214	Vertical
3	7311.0000	39.68	-7.17	32.51	54.00	21.49	148	359	Vertical
4	7311.0000	48.07	-7.17	40.90	74.00	33.10	194	184	Vertical
5	9748.0000	33.84	-1.18	32.66	54.00	21.34	235	360	Vertical
6	9748.0000	41.86	-1.18	40.68	74.00	33.32	172	108	Vertical

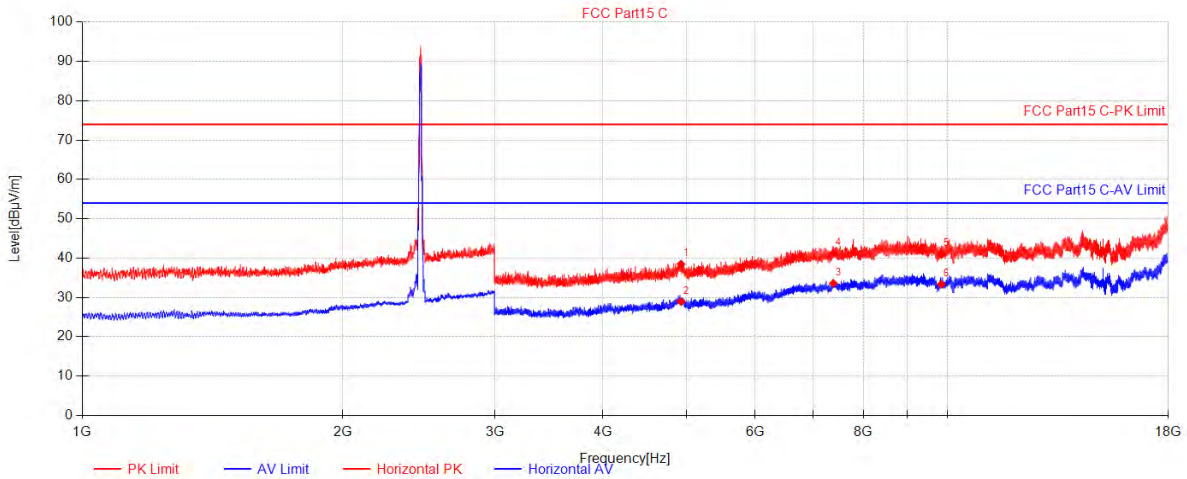


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	51.40	-12.89	38.51	74.00	35.49	123	213	Horizontal
2	4924.0000	41.81	-12.89	28.92	54.00	25.08	210	151	Horizontal
3	7386.0000	40.55	-6.96	33.59	54.00	20.41	182	278	Horizontal
4	7386.0000	48.24	-6.96	41.28	74.00	32.72	175	318	Horizontal
5	9848.0000	42.03	-1.12	40.91	74.00	33.09	199	339	Horizontal
6	9848.0000	34.46	-1.12	33.34	54.00	20.66	164	152	Horizontal

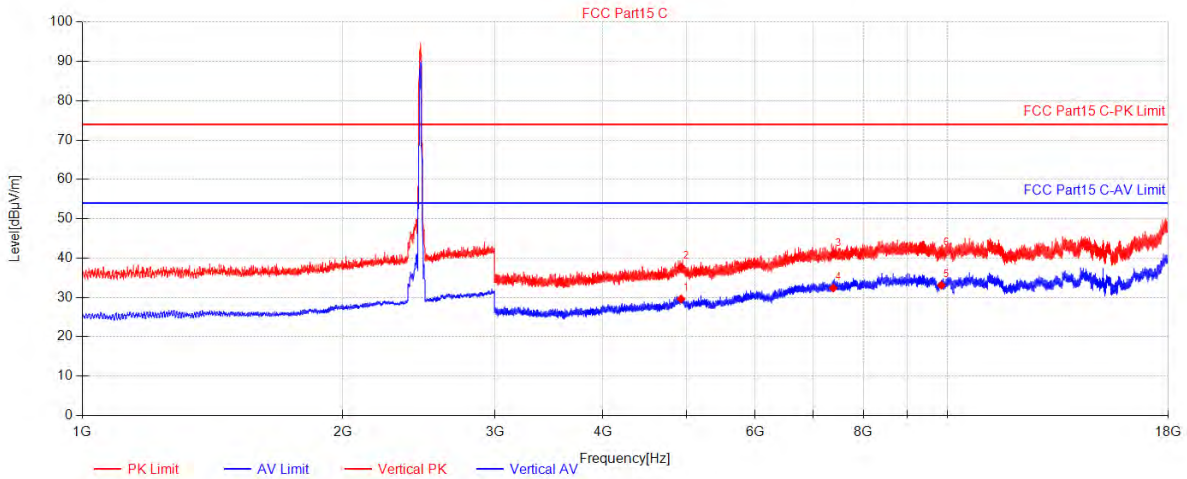


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	42.52	-12.89	29.63	54.00	24.37	155	355	Vertical
2	4924.0000	50.62	-12.89	37.73	74.00	36.27	133	359	Vertical
3	7386	47.98	-6.96	41.02	74.00	32.98	132	45	Vertical
4	7386.0000	39.33	-6.96	32.37	54.00	21.63	194	152	Vertical
5	9848.0000	34.23	-1.12	33.11	54.00	20.89	164	278	Vertical
6	9848.0000	42.43	-1.12	41.31	74.00	32.69	230	213	Vertical



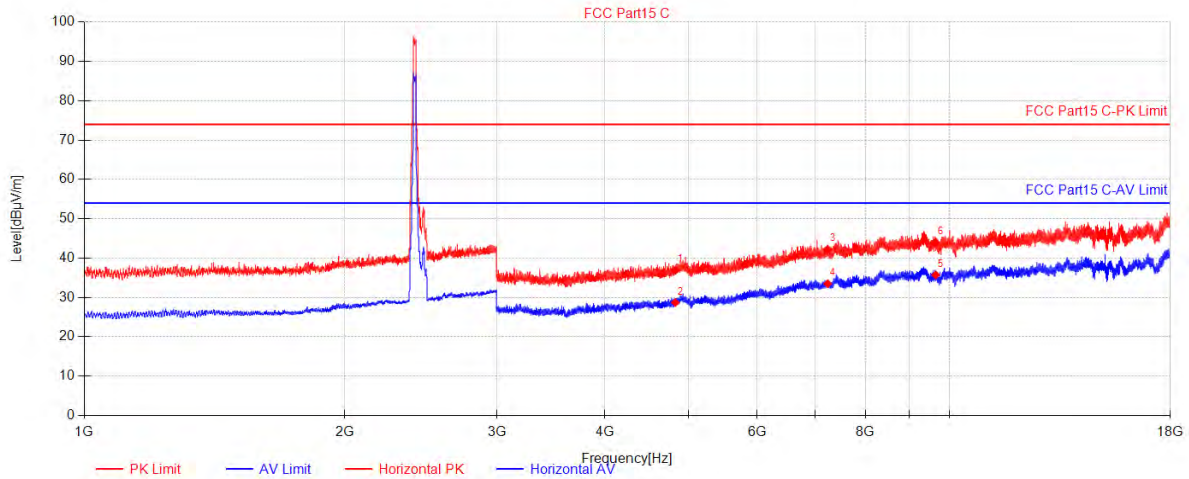
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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	50.09	-13.15	36.94	74.00	37.06	158	273	Horizontal
2	4824.0000	41.85	-13.15	28.70	54.00	25.30	201	353	Horizontal
3	7236.0000	49.19	-6.96	42.23	74.00	31.77	145	107	Horizontal
4	7236.0000	40.46	-6.96	33.50	54.00	20.50	172	360	Horizontal
5	9648.0000	36.90	-1.17	35.73	54.00	18.27	191	336	Horizontal
6	9648.0000	45.14	-1.17	43.97	74.00	30.03	136	3	Horizontal

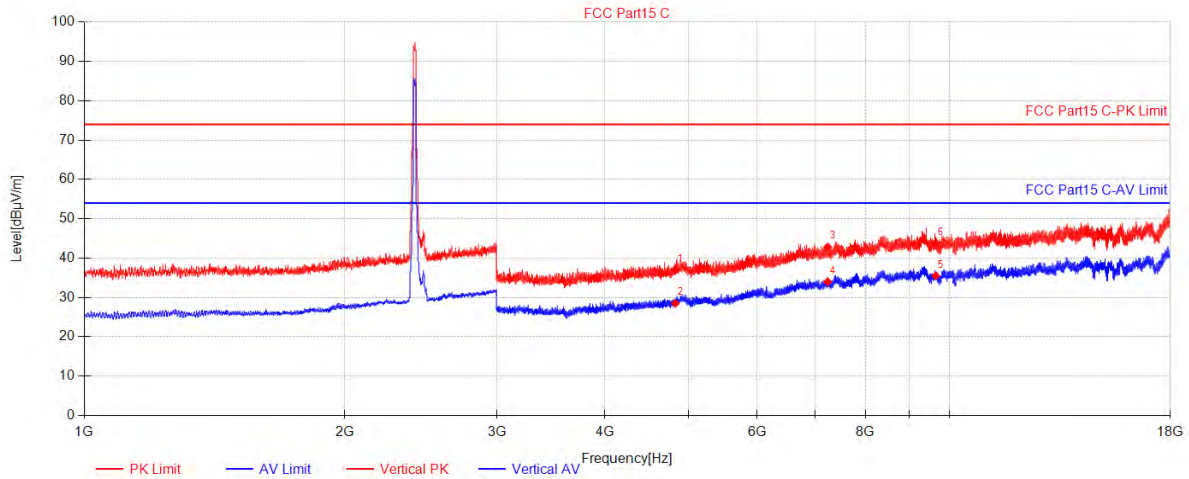


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	50.15	-13.15	37.00	74.00	37.00	205	354	Vertical
2	4824.0000	41.65	-13.15	28.50	54.00	25.50	172	24	Vertical
3	7236.0000	49.79	-6.96	42.83	74.00	31.17	133	255	Vertical
4	7236.0000	40.94	-6.96	33.98	54.00	20.02	201	359	Vertical
5	9648.0000	36.66	-1.17	35.49	54.00	18.51	198	4	Vertical
6	9648.0000	44.92	-1.17	43.75	74.00	30.25	169	213	Vertical

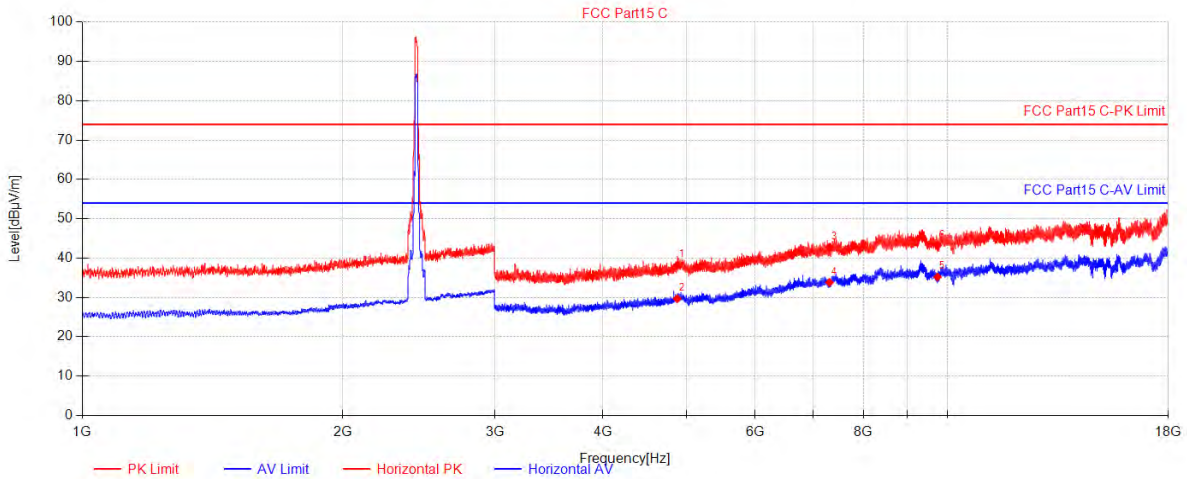


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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.18	-13.01	38.17	74.00	35.83	284	66	Horizontal
2	4874.0000	42.68	-13.01	29.67	54.00	24.33	160	65	Horizontal
3	7311.0000	49.96	-7.17	42.79	74.00	31.21	179	106	Horizontal
4	7311.0000	40.99	-7.17	33.82	54.00	20.18	140	360	Horizontal
5	9748.0000	36.39	-1.18	35.21	54.00	18.79	152	4	Horizontal
6	9748.0000	44.36	-1.18	43.18	74.00	30.82	236	352	Horizontal

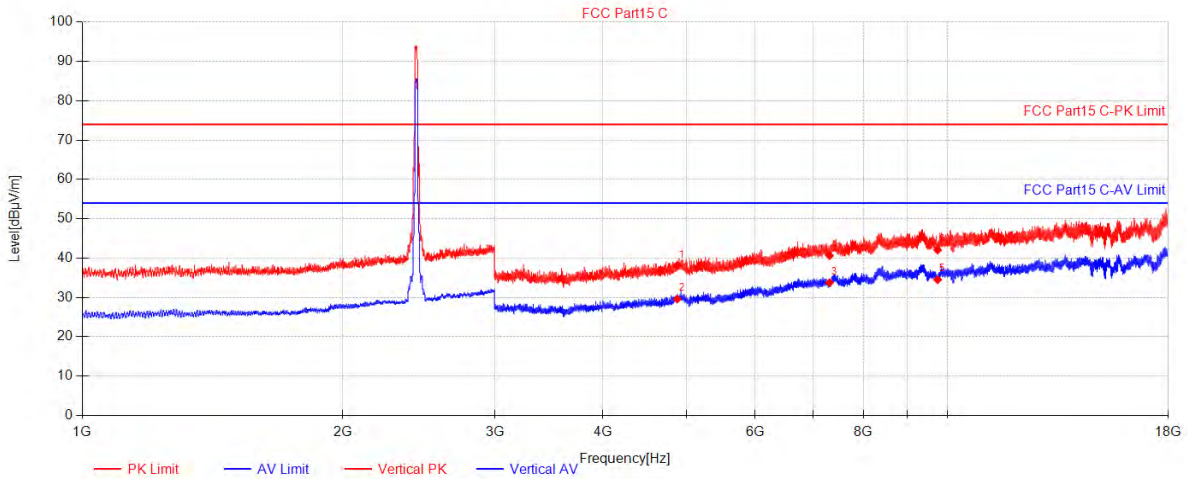


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802.11g_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	51.12	-13.01	38.11	74.00	35.89	214	43	Vertical
2	4874.0000	42.59	-13.01	29.58	54.00	24.42	162	43	Vertical
3	7311.0000	40.92	-7.17	33.75	54.00	20.25	230	149	Vertical
4	7311.0000	47.81	-7.17	40.64	74.00	33.36	165	86	Vertical
5	9748.0000	35.70	-1.18	34.52	54.00	19.48	172	86	Vertical
6	9748.0000	43.23	-1.18	42.05	74.00	31.95	184	191	Vertical



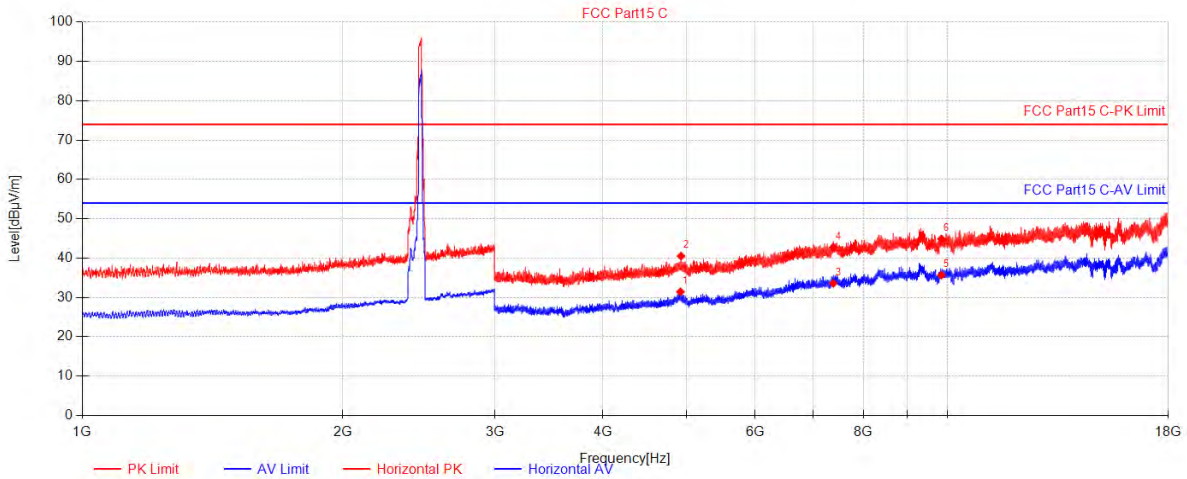
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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4915.5	44.33	-12.90	31.43	54.00	22.57	174	128	Horizontal
2	4923.5	53.40	-12.89	40.51	74.00	33.49	254	14	Horizontal
3	7386.0000	40.54	-6.96	33.58	54.00	20.42	236	288	Horizontal
4	7386.0000	49.68	-6.96	42.72	74.00	31.28	291	231	Horizontal
5	9848.0000	36.80	-1.12	35.68	54.00	18.32	172	170	Horizontal
6	9848.0000	45.99	-1.12	44.87	74.00	29.13	201	106	Horizontal

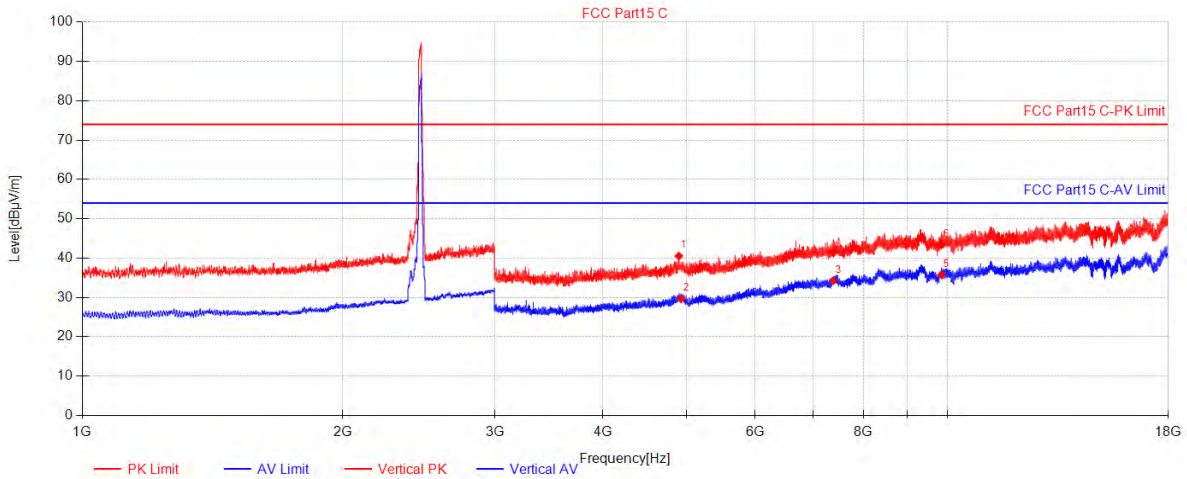


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4896	53.48	-12.94	40.54	74.00	33.46	123	295	Vertical
2	4924.0000	42.50	-12.89	29.61	54.00	24.39	263	360	Vertical
3	7386.0000	41.22	-6.96	34.26	54.00	19.74	142	232	Vertical
4	7386.0000	48.27	-6.96	41.31	74.00	32.69	184	232	Vertical
5	9848.0000	36.82	-1.12	35.70	54.00	18.30	196	86	Vertical
6	9848.0000	44.50	-1.12	43.38	74.00	30.62	170	232	Vertical

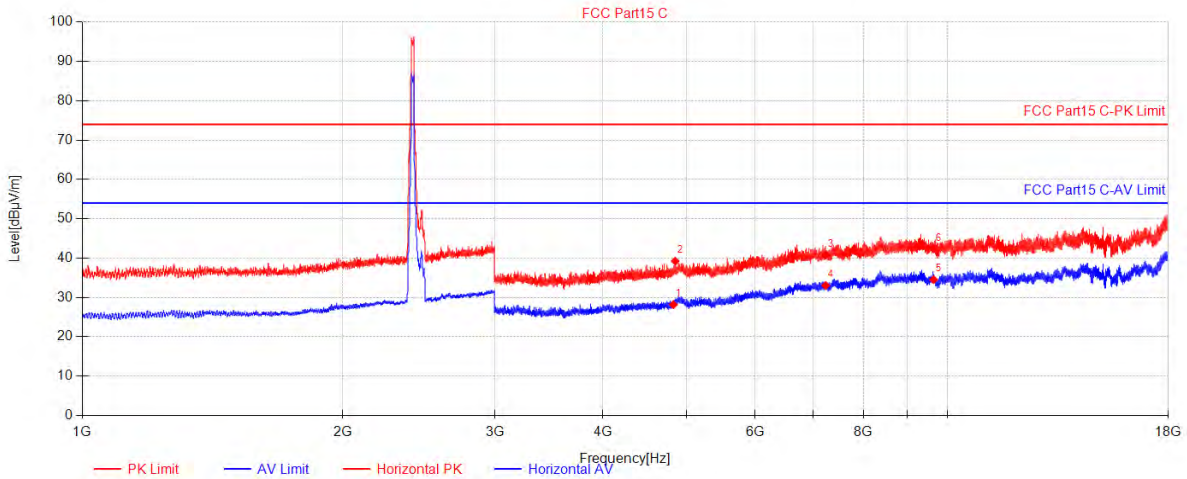


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	41.30	-13.15	28.15	54.00	25.85	258	25	Horizontal
2	4847	52.31	-13.08	39.23	74.00	34.77	169	337	Horizontal
3	7236.0000	47.73	-6.96	40.77	74.00	33.23	185	232	Horizontal
4	7236.0000	40.00	-6.96	33.04	54.00	20.96	174	65	Horizontal
5	9648.0000	35.68	-1.17	34.51	54.00	19.49	201	148	Horizontal
6	9648.0000	43.56	-1.17	42.39	74.00	31.61	133	295	Horizontal

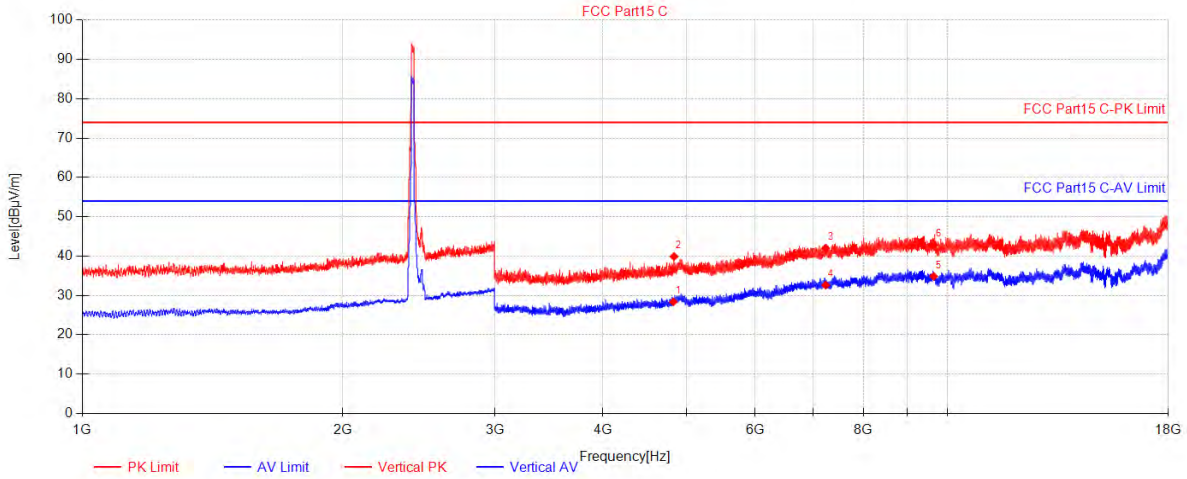


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824.0000	41.52	-13.15	28.37	54.00	25.63	236	0	Vertical
2	4833	53.02	-13.12	39.90	74.00	34.10	251	274	Vertical
3	7236.0000	48.98	-6.96	42.02	74.00	31.98	194	1	Vertical
4	7236.0000	39.59	-6.96	32.63	54.00	21.37	148	253	Vertical
5	9648.0000	36.03	-1.17	34.86	54.00	19.14	176	337	Vertical
6	9648.0000	44.05	-1.17	42.88	74.00	31.12	230	295	Vertical

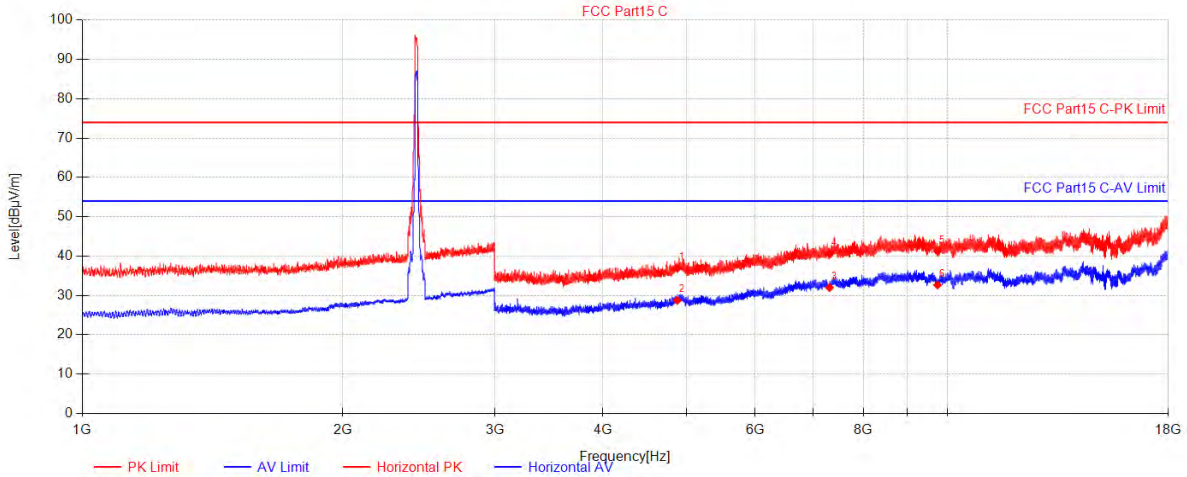


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802.11n20_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.95	-13.01	36.94	74.00	37.06	154	25	Horizontal
2	4874.0000	41.76	-13.01	28.75	54.00	25.25	170	109	Horizontal
3	7311.0000	39.16	-7.17	31.99	54.00	22.01	120	87	Horizontal
4	7311.0000	47.84	-7.17	40.67	74.00	33.33	196	27	Horizontal
5	9748.0000	42.42	-1.18	41.24	74.00	32.76	235	256	Horizontal
6	9748.0000	33.83	-1.18	32.65	54.00	21.35	230	25	Horizontal



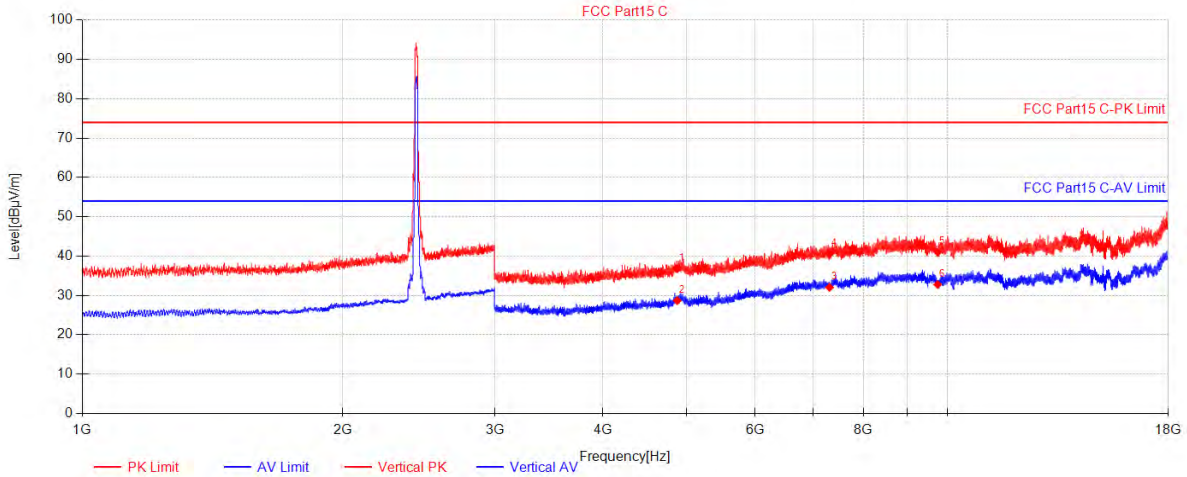
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802.11n20_Channel 06



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874.0000	49.83	-13.01	36.82	74.00	37.18	255	129	Vertical
2	4874.0000	41.70	-13.01	28.69	54.00	25.31	236	255	Vertical
3	7311.0000	39.22	-7.17	32.05	54.00	21.95	160	44	Vertical
4	7311.0000	47.78	-7.17	40.61	74.00	33.39	148	150	Vertical
5	9748.0000	42.20	-1.18	41.02	74.00	32.98	195	86	Vertical
6	9748.0000	33.95	-1.18	32.77	54.00	21.23	172	357	Vertical

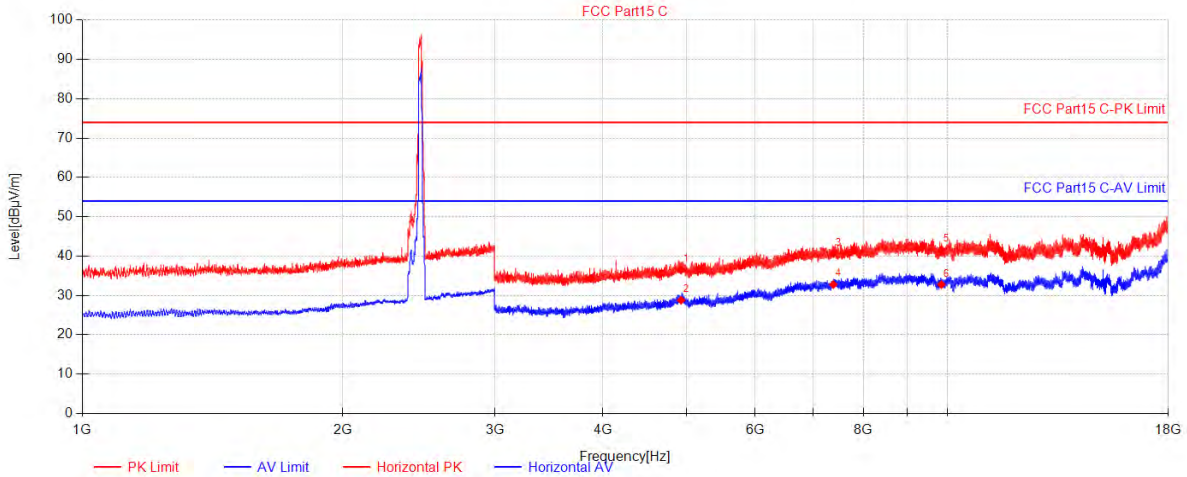


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.35	-12.89	36.46	74.00	37.54	184	212	Horizontal
2	4924.0000	41.66	-12.89	28.77	54.00	25.23	236	316	Horizontal
3	7386.0000	47.61	-6.96	40.65	74.00	33.35	196	0	Horizontal
4	7386.0000	39.74	-6.96	32.78	54.00	21.22	140	170	Horizontal
5	9848.0000	42.78	-1.12	41.66	74.00	32.34	172	66	Horizontal
6	9848.0000	33.88	-1.12	32.76	54.00	21.24	162	295	Horizontal

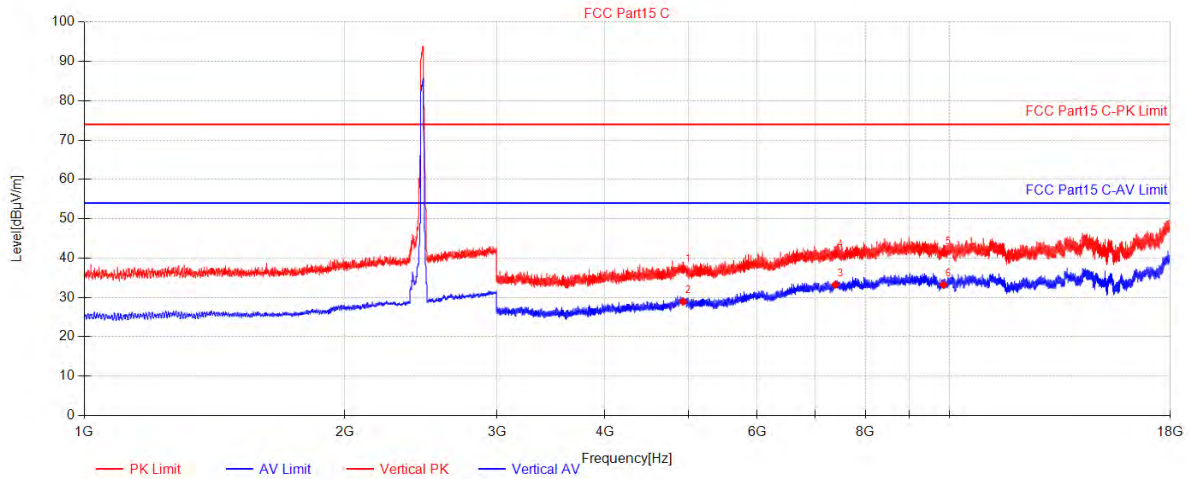


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924.0000	49.94	-12.89	37.05	74.00	36.95	184	337	Vertical
2	4924.0000	41.82	-12.89	28.93	54.00	25.07	191	233	Vertical
3	7386.0000	40.22	-6.96	33.26	54.00	20.74	170	69	Vertical
4	7386.0000	47.85	-6.96	40.89	74.00	33.11	122	336	Vertical
5	9848.0000	42.56	-1.12	41.44	74.00	32.56	236	215	Vertical
6	9848.0000	34.35	-1.12	33.23	54.00	20.77	125	1	Vertical



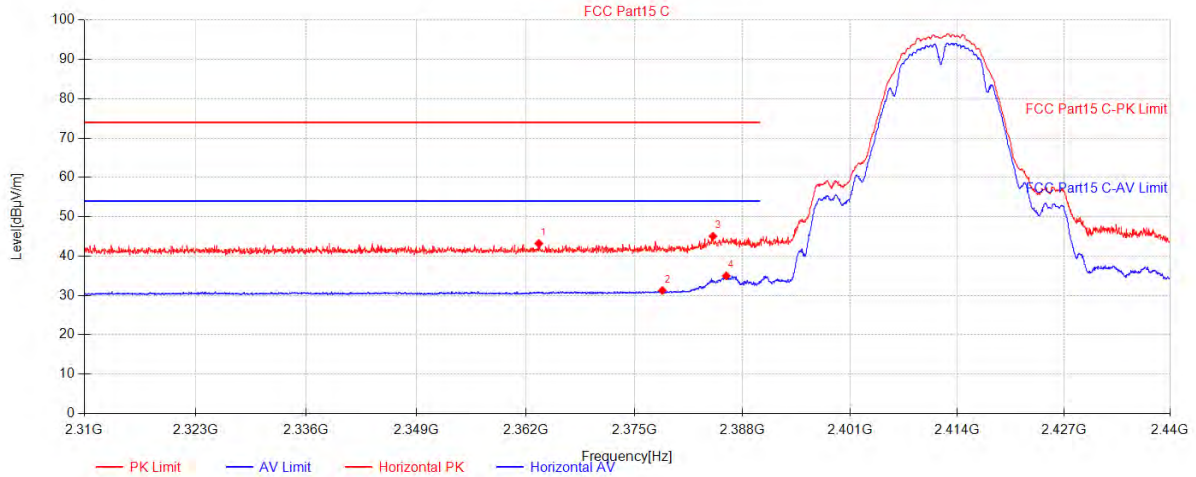
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Restricted bands around fundamental frequency

802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.56	40.13	3.08	43.21	74.00	30.79	133	294	Horizontal
2	2378.3367	28.17	3.08	31.25	54.00	22.75	133	294	Horizontal
3	2384.4033	41.98	3.07	45.05	74.00	28.95	133	294	Horizontal
4	2386.0067	31.90	3.07	34.97	54.00	19.03	133	294	Horizontal

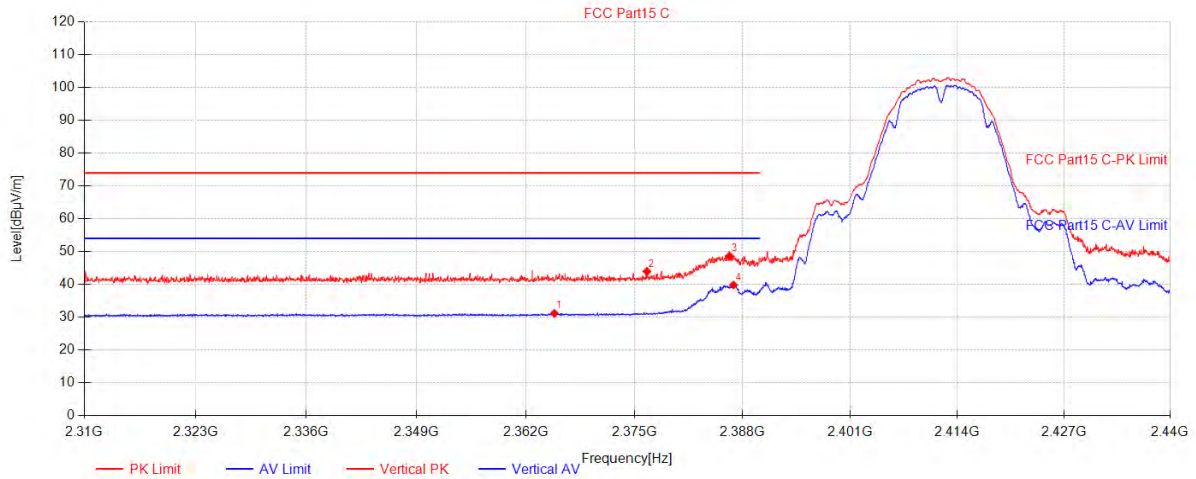


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802.11b_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.4233	28.07	3.08	31.15	54.00	22.85	154	74	Vertical
2	2376.4733	40.84	3.08	43.92	74.00	30.08	154	74	Vertical
3	2386.3967	45.59	3.07	48.66	74.00	25.34	154	74	Vertical
4	2386.8733	36.72	3.07	39.79	54.00	14.21	154	74	Vertical

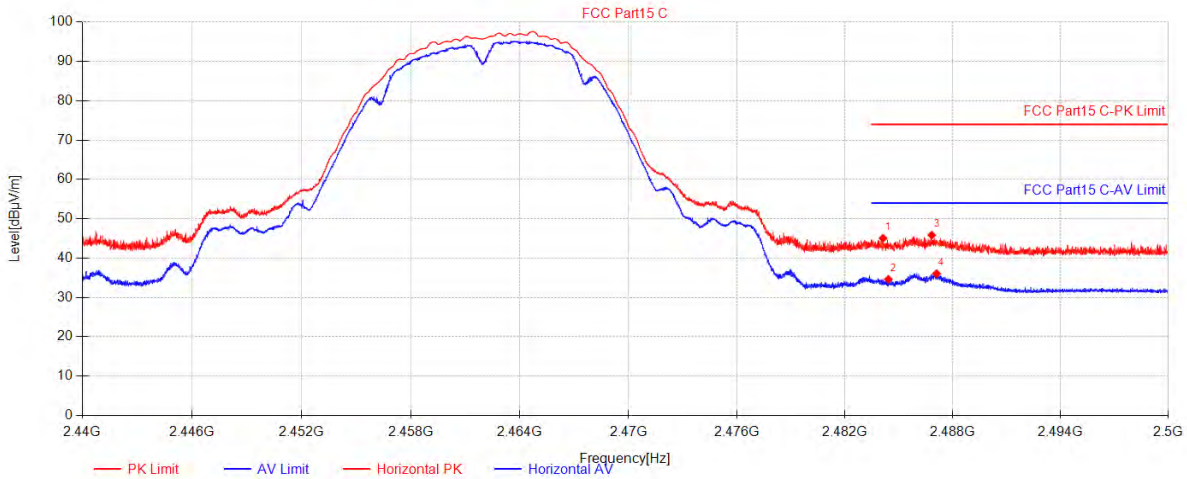


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.115	41.45	3.60	45.05	74.00	28.95	189	306	Horizontal
2	2484.4075	31.03	3.60	34.63	54.00	19.37	189	306	Horizontal
3	2486.8225	42.21	3.62	45.83	74.00	28.17	189	306	Horizontal
4	2487.0925	32.43	3.62	36.05	54.00	17.95	189	306	Horizontal

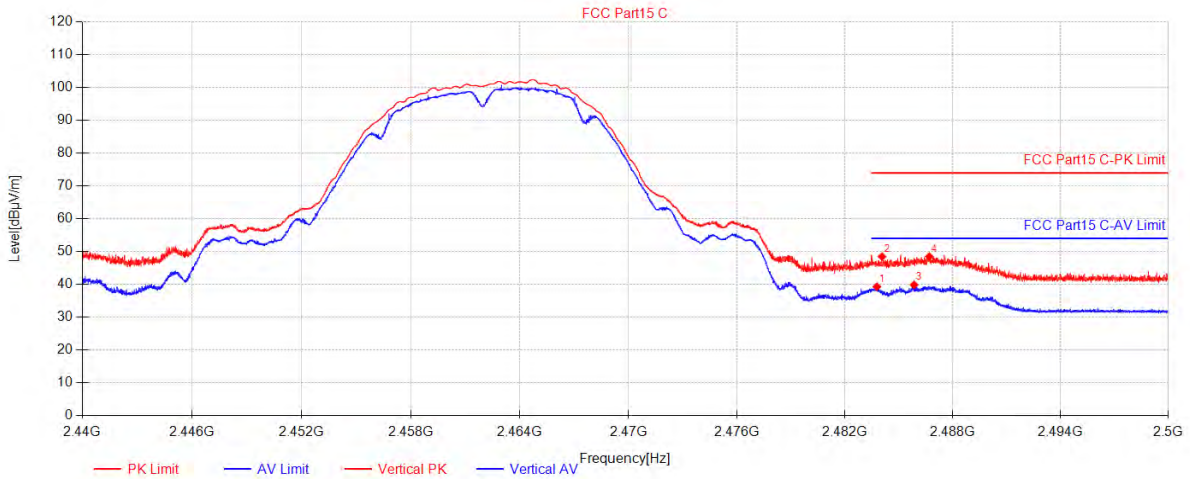


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802.11b_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.77	35.67	3.60	39.27	54.00	14.73	145	33	Vertical
2	2484.055	44.86	3.60	48.46	74.00	25.54	145	33	Vertical
3	2485.84	36.23	3.61	39.84	54.00	14.16	145	33	Vertical
4	2486.6875	44.85	3.62	48.47	74.00	25.53	145	33	Vertical

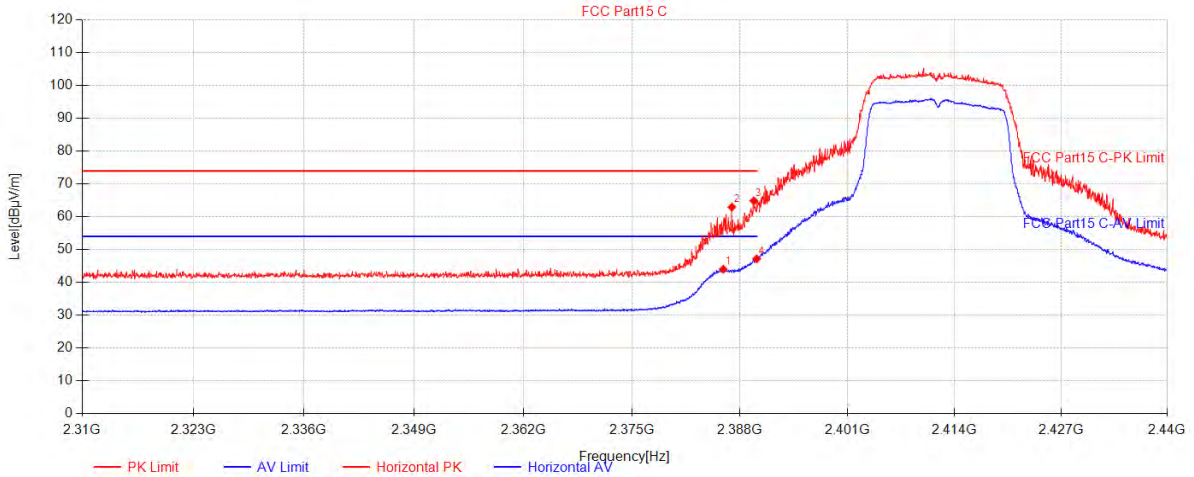


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2385.9633	40.14	3.86	44.00	54.00	10.00	189	112	Horizontal
2	2387.0033	59.10	3.86	62.96	74.00	11.04	189	112	Horizontal
3	2389.6467	61.02	3.86	64.88	74.00	9.12	189	112	Horizontal
4	2389.9933	43.30	3.86	47.16	54.00	6.84	189	112	Horizontal

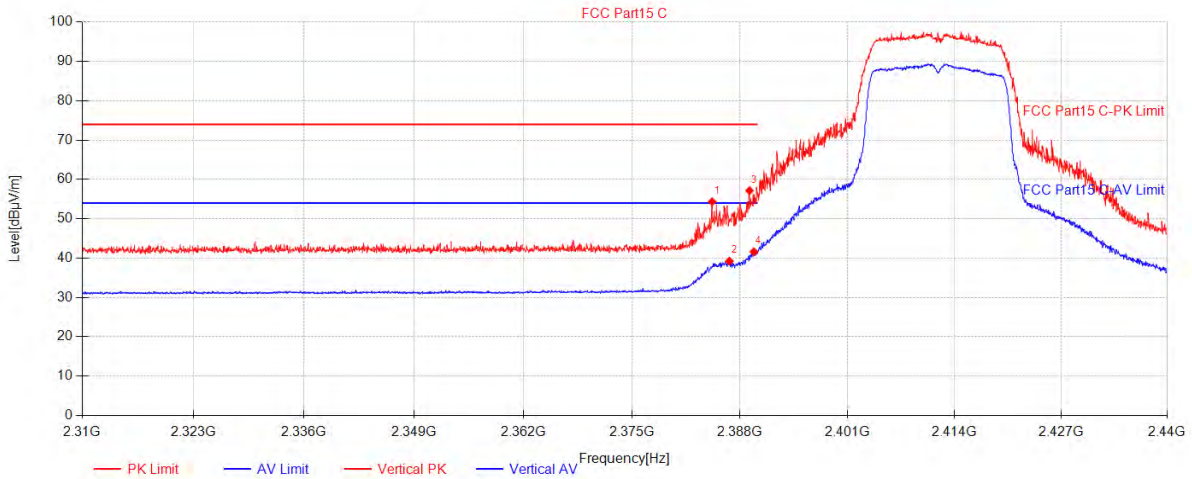


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802.11g_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2384.62	50.49	3.86	54.35	74.00	19.65	236	315	Vertical
2	2386.7	35.37	3.86	39.23	54.00	14.77	236	315	Vertical
3	2389.1267	53.28	3.86	57.14	74.00	16.86	236	315	Vertical
4	2389.6467	37.75	3.86	41.61	54.00	12.39	236	315	Vertical

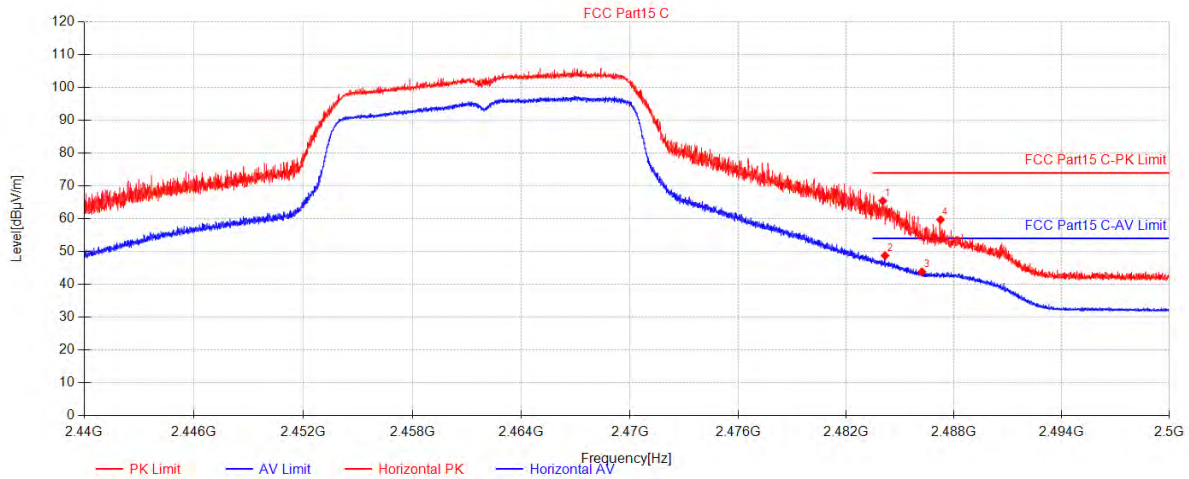


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802.11g_Channel 11



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.025	61.26	4.17	65.43	74.00	8.57	230	121	Horizontal
2	2484.1525	44.60	4.17	48.77	54.00	5.23	230	121	Horizontal
3	2486.2075	39.65	4.18	43.83	54.00	10.17	230	121	Horizontal
4	2487.2425	55.55	4.18	59.73	74.00	14.27	230	121	Horizontal

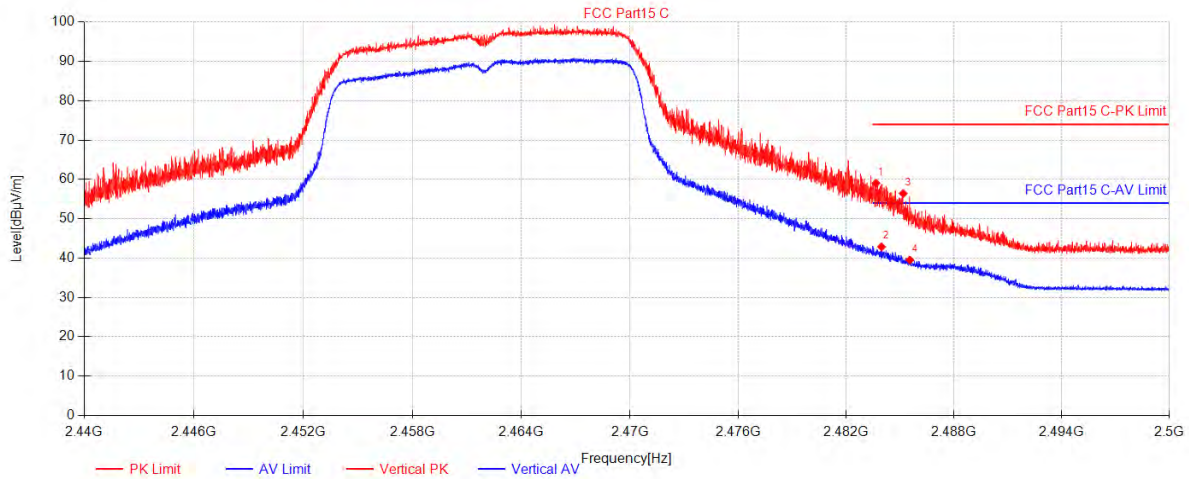


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802.11g_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.65	54.88	4.17	59.05	74.00	14.95	111	217	Vertical
2	2483.9575	38.71	4.17	42.88	54.00	11.12	111	217	Vertical
3	2485.165	52.25	4.18	56.43	74.00	17.57	111	217	Vertical
4	2485.5325	35.33	4.18	39.51	54.00	14.49	111	217	Vertical

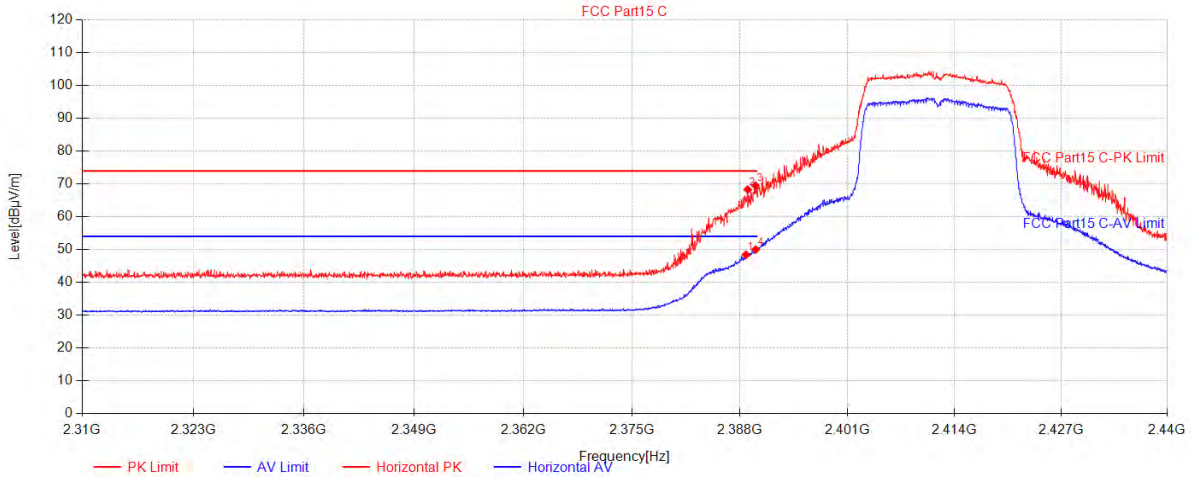


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802.11n20_Channel 01



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.6933	44.56	3.86	48.42	54.00	5.58	126	274	Horizontal
2	2388.91	64.43	3.86	68.29	74.00	5.71	126	274	Horizontal
3	2389.82	65.68	3.86	69.54	74.00	4.46	126	274	Horizontal
4	2389.8633	46.16	3.86	50.02	54.00	3.98	126	274	Horizontal

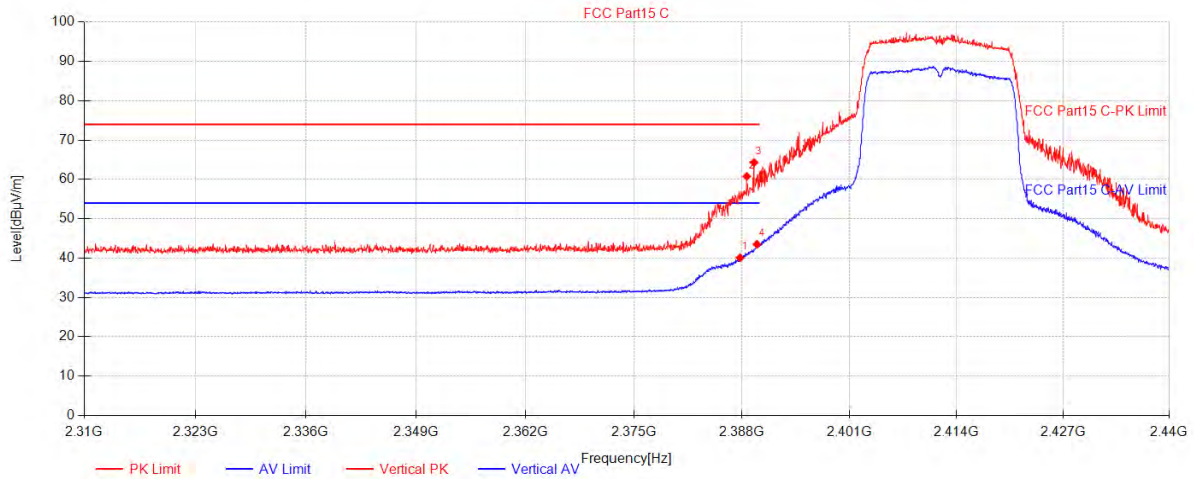


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802.11n20_Channel 01



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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2387.74	36.24	3.86	40.10	54.00	13.90	149	308	Vertical
2	2388.5633	56.92	3.86	60.78	74.00	13.22	149	308	Vertical
3	2389.43	60.44	3.86	64.30	74.00	9.70	149	308	Vertical
4	2389.7767	39.65	3.86	43.51	54.00	10.49	149	308	Vertical

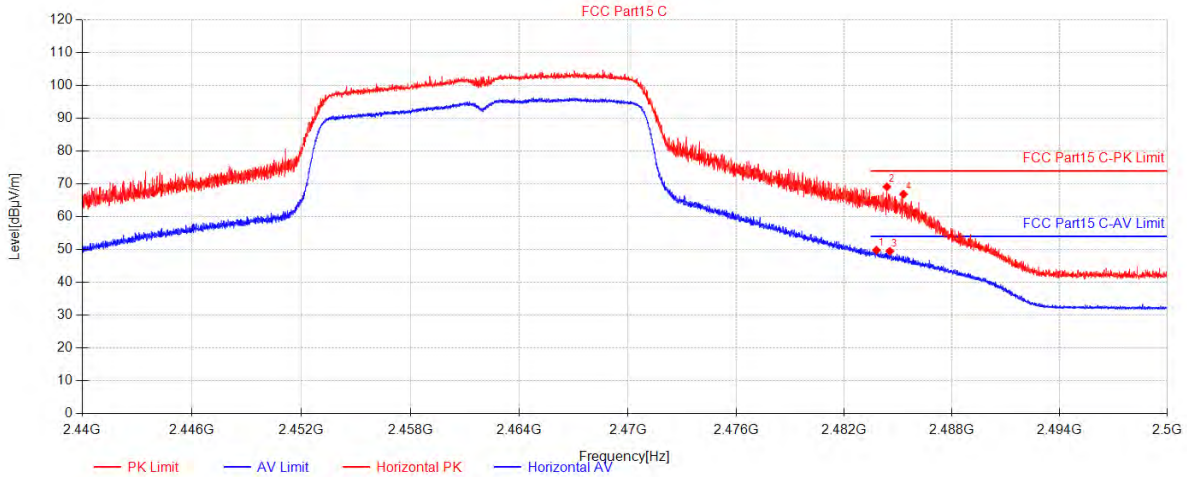


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802.11n20_Channel 11



Final Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.785	45.65	4.17	49.82	54.00	4.18	154	163	Horizontal
2	2484.37	64.98	4.17	69.15	74.00	4.85	154	163	Horizontal
3	2484.5275	45.33	4.17	49.50	54.00	4.50	154	163	Horizontal
4	2485.2925	62.69	4.18	66.87	74.00	7.13	154	163	Horizontal

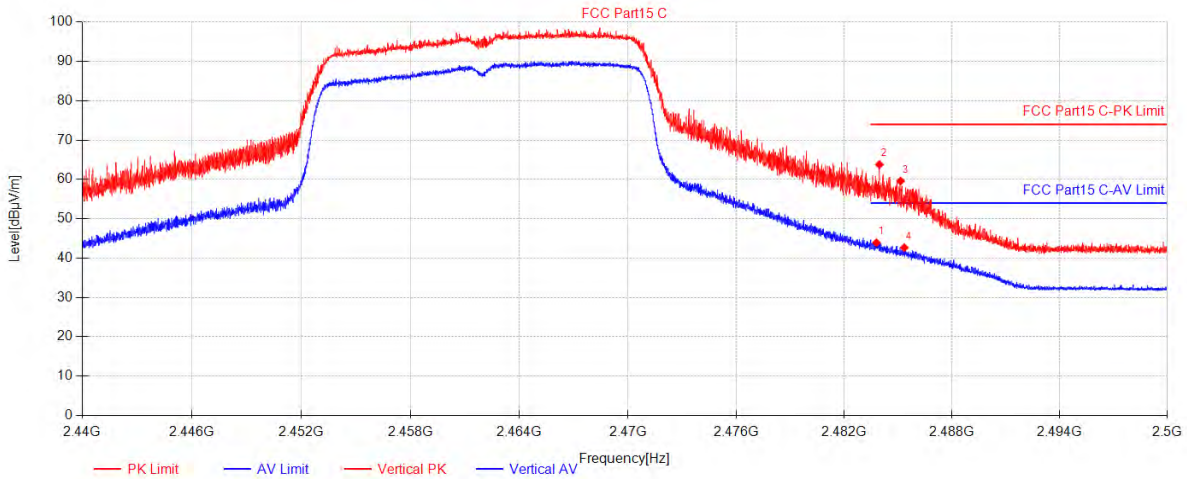


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NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.785	39.75	4.17	43.92	54.00	10.08	236	241	Vertical
2	2483.95	59.61	4.17	63.78	74.00	10.22	236	241	Vertical
3	2485.1275	55.43	4.18	59.61	74.00	14.39	236	241	Vertical
4	2485.3375	38.48	4.18	42.66	54.00	11.34	236	241	Vertical

The End



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