

Report No.: SEWM2305000177RG05  
 Rev.: 02  
 Page: 1 of 148

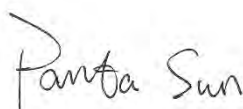
# TEST REPORT

**Application No.:** SEWM2305000177RG  
**Applicant:** vivo Mobile Communication Co., Ltd.  
**Address of Applicant:** No.1, vivo Road, Chang'an, Dongguan, Guangdong, China  
**Manufacturer:** vivo Mobile Communication Co., Ltd.  
**Address of Manufacturer:** No.1, vivo Road, Chang'an, Dongguan, Guangdong, China  
**EUT Description:** Mobile Phone  
**Model No.:** V2248  
**Trade Mark:** vivo  
**FCC ID:** 2AUCY-V2248  
**Standards:** FCC 47 CFR Part 2, Subpart J  
 FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** 2023/05/01  
**Date of Test:** 2023/05/28 to 2023/06/06  
**Date of Issue:** 2023/06/15

<b>Test Result :</b>	<b>PASS *</b>
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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


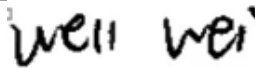


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# 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/06/07		Original
02		2023/06/15		Update Cal Date of Receiving antenna (Model No.BBHA 9170)

This report supersedes our previous report SEWM2305000177RG05, issued on 2023/06/07, which is hereby deemed null and void.

<b>Prepared By</b>		 <hr/> (Ives Cheng) / Test Engineer
<b>Checked By</b>		 <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 C63.10-2020 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	For Report Purpose
Conducted Output Power	15.247 (b)(3)	ANSI C63.10-2020 Section 11.9.1.2	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10-2020 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10-2020 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10-2020 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10-2020 Section 11.12	Clause 4.10	PASS



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### 3 General Information

#### 3.1 Details of Client

Applicant:	vivo Mobile Communication Co., Ltd.
Address of Applicant:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, China
Manufacturer:	vivo Mobile Communication Co., Ltd.
Address of Manufacturer:	No.1, vivo Road, Chang'an, Dongguan, Guangdong, 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:	Ives Cheng, King-p Li

#### 3.3 Test Facility

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

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

EUT Description:	Mobile Phone	
Model No.:	V2248	
Trade Mark:	vivo	
Hardware Version:	MP_0.1	
Software Version:	PD2279F_EX_A_13.0.2.6.W30	
IMEI:	RF Conducted	Sample1: 860233069983399(IMEI1) 860233069983381(IMEI2)
	RSE & AC power line	Sample1: 860233069986350(IMEI1) 860233069986343(IMEI2) Sample2: 860233069986798(IMEI1) 860233069986780(IMEI2)
Operation Frequency:	802.11b/g/n(HT20)/VHT20:	2412MHz to 2462MHz
	802.11n(HT40)/VHT40:	2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)
	802.11VHT:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Number of Channels:	802.11b/g/n(HT20)/VHT20: 11 802.11n(HT40)/VHT40: 7	
Channel Spacing:	5MHz	
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n/VHT
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n/VHT: Tx & Rx
		STBC: 802.11n/VHT: Tx & Rx
		TXBF: 802.11n/VHT: Tx & Rx
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx	
Antenna Type:	PIFA Antenna	
Antenna Gain:	-3dBi(Ant22)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	1.0dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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Operation Frequency of each channel (802.11b/g/n HT20 / VHT20)							
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		
Operation Frequency of each channel (802.11n HT40 / VHT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				
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) / (VHT20)			Frequency for 802.11n (HT40)/(VHT40)			
The Lowest channel	2412MHz			2422MHz			
The Middle channel	2437MHz			2437MHz			
The Highest channel	2462MHz			2452MHz			



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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	3.89
Remark: NV: Normal Voltage NT: Normal 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)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/
802.11 (VHT 20)	MCS0 (6.5 Mbps)	/
802.11 (VHT 40)	MCS0 (13.5 Mbps)	/



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## 4 Test results and Measurement Data

### 4.1 Antenna Requirement

<b>Standard requirement:</b>	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 PIFA Antenna and no consideration of replacement.          The best case gain of the antenna is -3dBi(Ant22). *</p> <p><i>*Note:          The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:          As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



### 4.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10-2020 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 C63.10-2020 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>

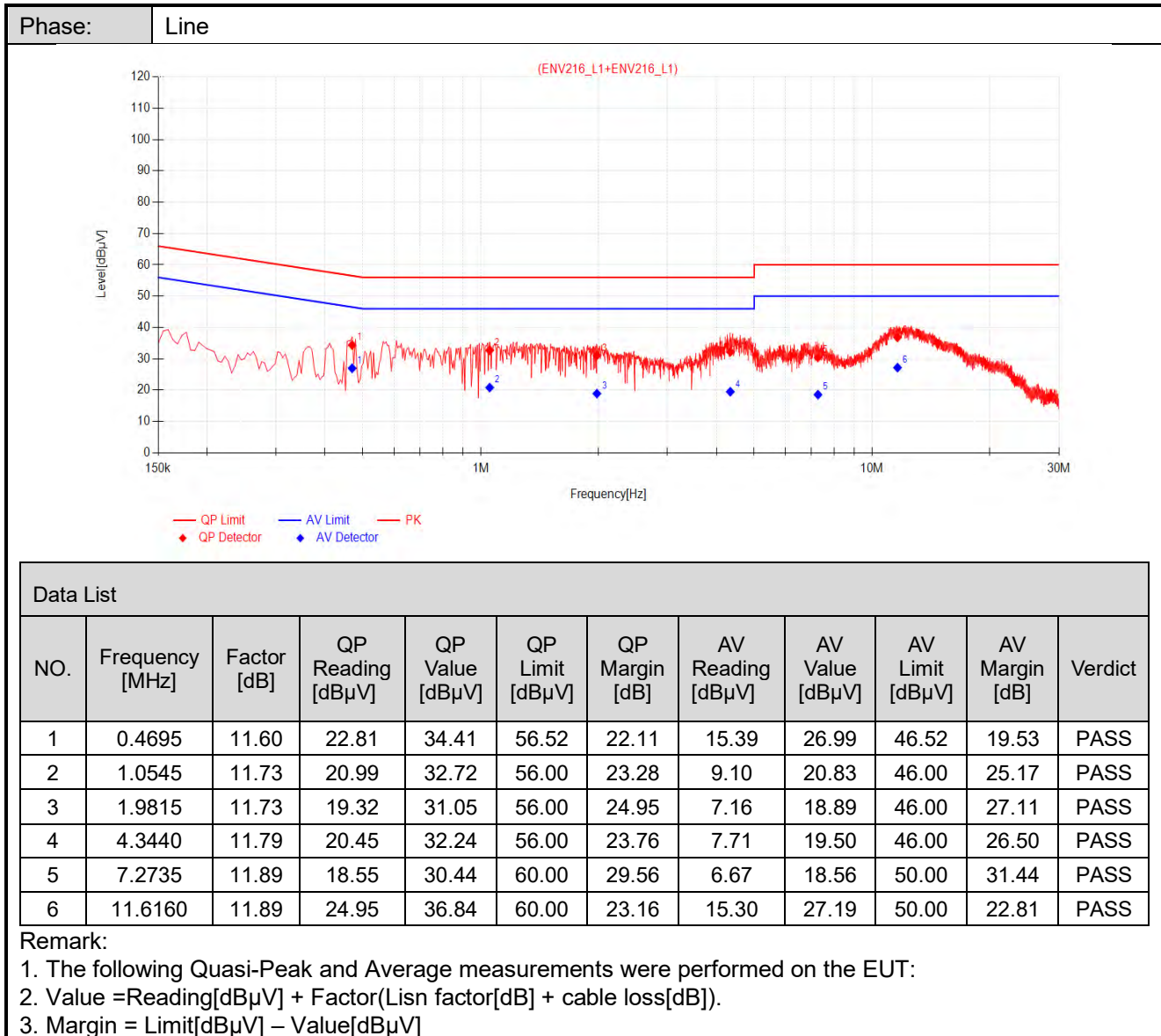


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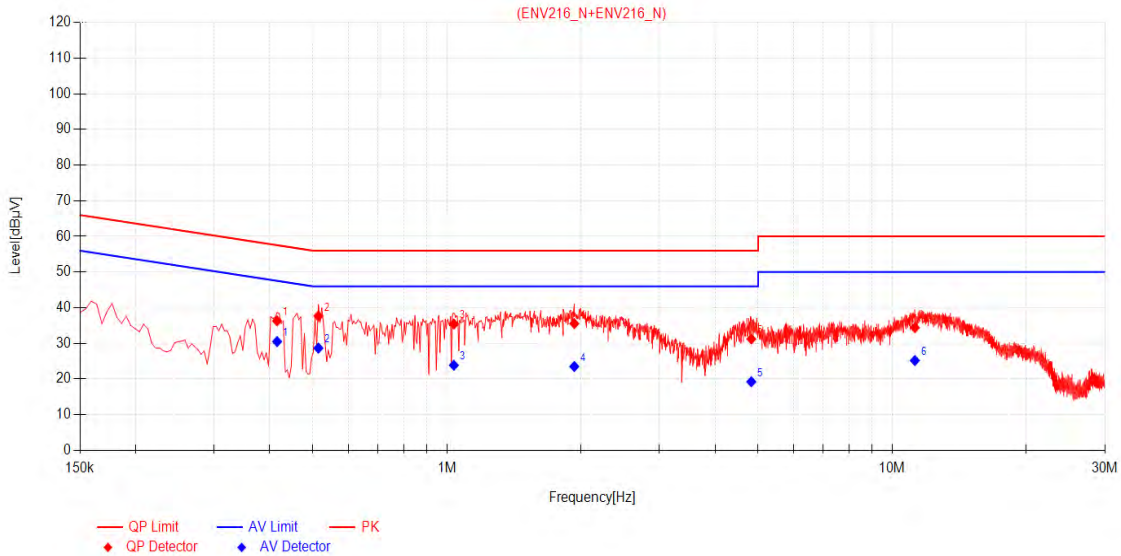
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Measurement Data

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.



Phase: Neutral



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	0.4155	11.61	24.70	36.31	57.54	21.23	18.88	30.49	47.54	17.05	PASS
2	0.5145	11.61	26.03	37.64	56.00	18.36	17.06	28.67	46.00	17.33	PASS
3	1.0365	11.73	23.69	35.42	56.00	20.58	12.13	23.86	46.00	22.14	PASS
4	1.9320	11.74	23.80	35.54	56.00	20.46	11.76	23.50	46.00	22.50	PASS
5	4.8255	11.79	19.44	31.23	56.00	24.77	7.44	19.23	46.00	26.77	PASS
6	11.2425	11.89	22.51	34.40	60.00	25.60	13.29	25.18	50.00	24.82	PASS

Remark:

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



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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 C63.10-2020 Section 11.9.1.2
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: <b>Appendix</b>	



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

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 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: <b>Appendix</b>	



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### 4.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 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: <b>Appendix</b>	



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### 4.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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: <b>Appendix</b>	



### 4.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 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: <b>Appendix</b>	



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### 4.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10-2020 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.					



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Test Setup:

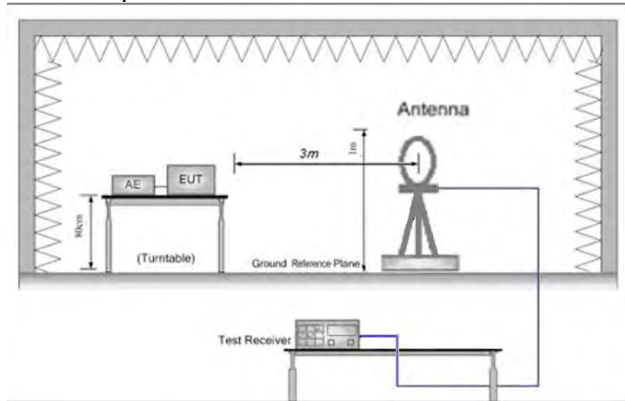


Figure 1. Below 30MHz

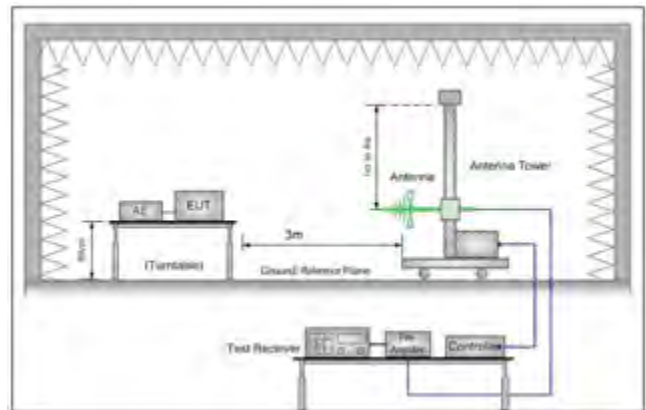


Figure 2. 30MHz to 1GHz

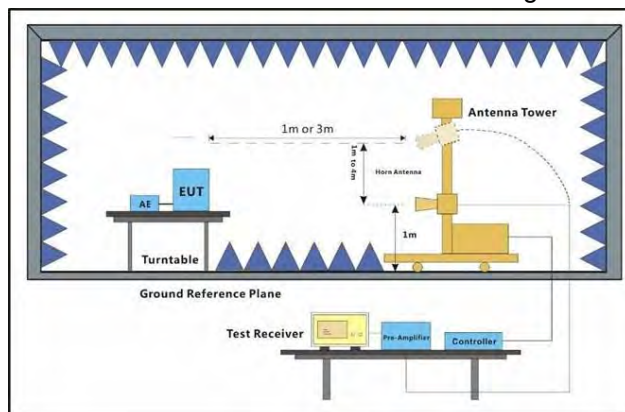


Figure 3. Above 1 GHz

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 Z 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 <math>20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}</math>.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> <li>• RBW = 10 kHz</li> <li>• VBW = 30 kHz</li> <li>• Detector = Peak &amp; Average &amp; Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW <math>\geq 3 \text{ MHz}</math></li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• VBW <math>\geq 1/T</math>, 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.</li> </ul>
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: <b>Appendix</b>	



### 4.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10-2020 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:

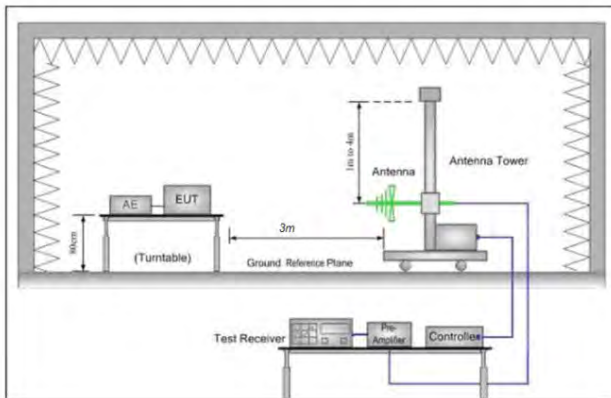


Figure 1. 30MHz to 1GHz

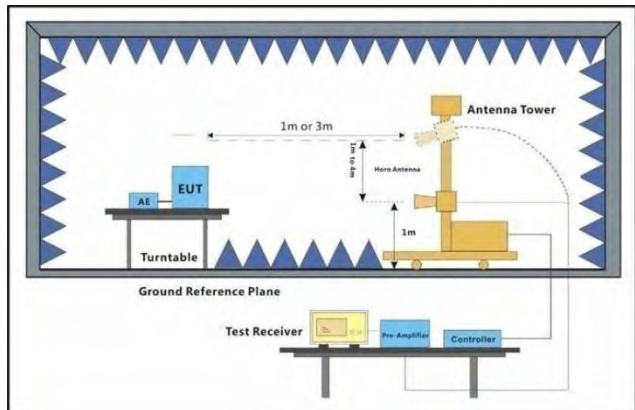


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</li> <li>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</li> <li>Test the EUT in the lowest channel , the Highest channel</li> <li>The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the Z axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 120 kHz</li> <li>• VBW = 300 kHz</li> <li>• Detector = Quasi-peak</li> <li>• Trace mode = max hold</li> </ul> <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW ≥ 3 MHz</li> <li>• Detector = Peak</li> <li>• Sweep time = auto</li> <li>• Trace mode = max hold</li> </ul> <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> <li>• RBW = 1 MHz</li> <li>• VBW = 10 Hz, when duty cycle is no less than 98 percent.</li> <li>• 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.</li> </ul>
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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Test Results:	Pass
The detailed test data see: <b>Appendix</b>	



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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)
		± 4.80dB (Above 18GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI Uncertainty), so the test results  
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;  
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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## 6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	2023/02/22	2024/02/21

CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date (yyyy/mm/dd)	Cal Due Date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer <sup>[1]</sup>	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-RE V4.0.0.1	SUWI-02-09-04	NCR	NCR



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## 7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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# Appendix



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## DTS Bandwidth

### Test Result

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant22	2412	8.60	2407.48	2416.08	≥0.5	PASS
11b	Ant22	2437	9.16	2432.40	2441.56	≥0.5	PASS
11b	Ant22	2462	9.12	2457.44	2466.56	≥0.5	PASS
11g	Ant22	2412	15.40	2404.20	2419.60	≥0.5	PASS
11g	Ant22	2437	15.44	2429.36	2444.80	≥0.5	PASS
11g	Ant22	2462	15.20	2454.40	2469.60	≥0.5	PASS
11n20SISO	Ant22	2412	15.24	2404.36	2419.60	≥0.5	PASS
11n20SISO	Ant22	2437	15.16	2429.40	2444.56	≥0.5	PASS
11n20SISO	Ant22	2462	16.04	2453.56	2469.60	≥0.5	PASS
11n40SISO	Ant22	2422	34.00	2405.60	2439.60	≥0.5	PASS
11n40SISO	Ant22	2437	35.20	2419.40	2454.60	≥0.5	PASS
11n40SISO	Ant22	2452	32.72	2436.88	2469.60	≥0.5	PASS
11VHT20SISO	Ant22	2412	15.20	2404.40	2419.60	≥0.5	PASS
11VHT20SISO	Ant22	2437	15.20	2429.36	2444.56	≥0.5	PASS
11VHT20SISO	Ant22	2462	15.20	2454.40	2469.60	≥0.5	PASS
11VHT40SISO	Ant22	2422	35.28	2404.32	2439.60	≥0.5	PASS
11VHT40SISO	Ant22	2437	34.00	2420.60	2454.60	≥0.5	PASS
11VHT40SISO	Ant22	2452	35.28	2434.32	2469.60	≥0.5	PASS



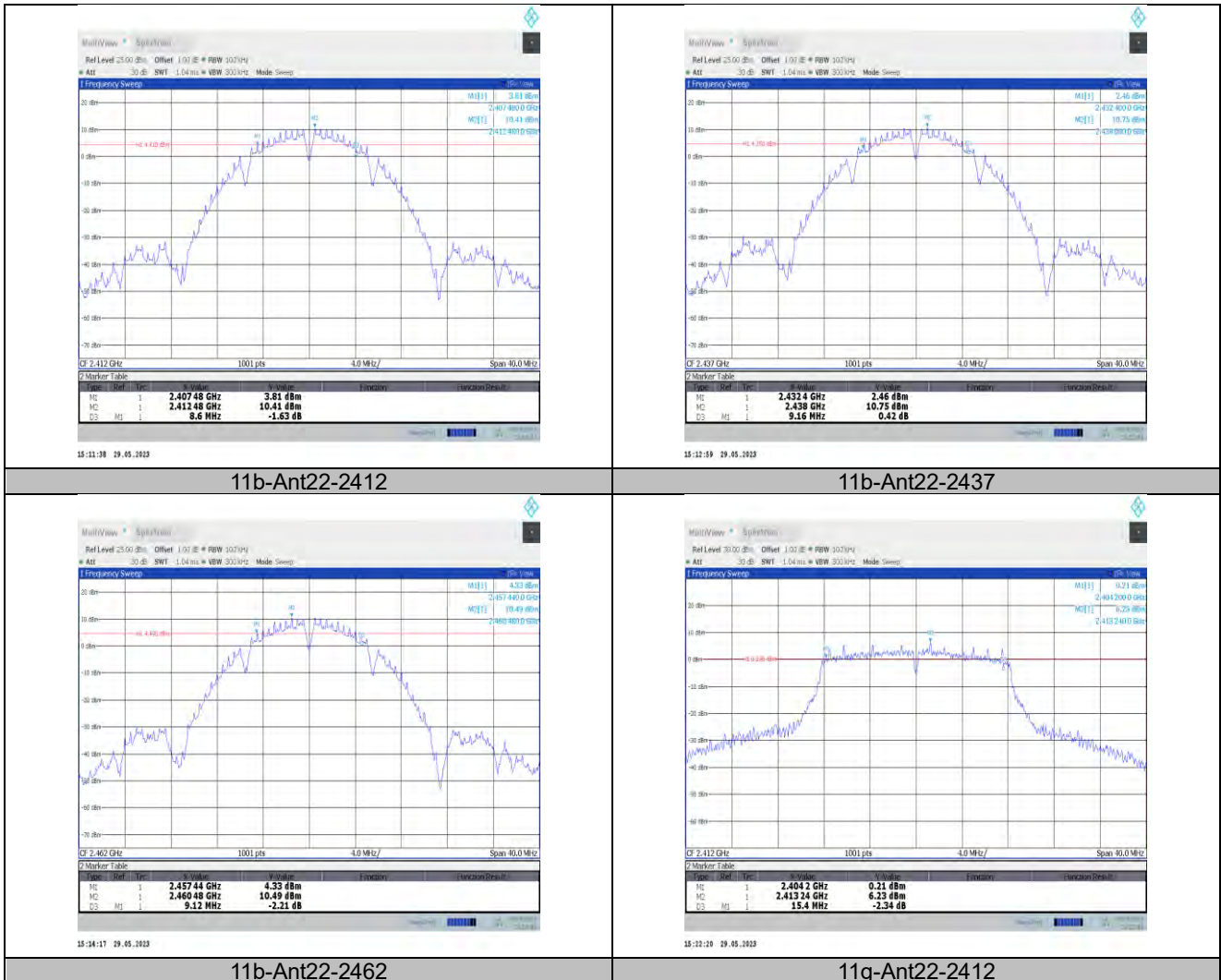
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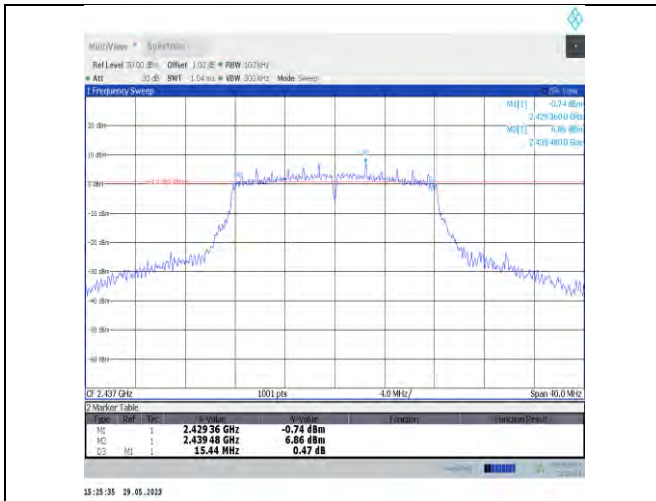
Test Graphs



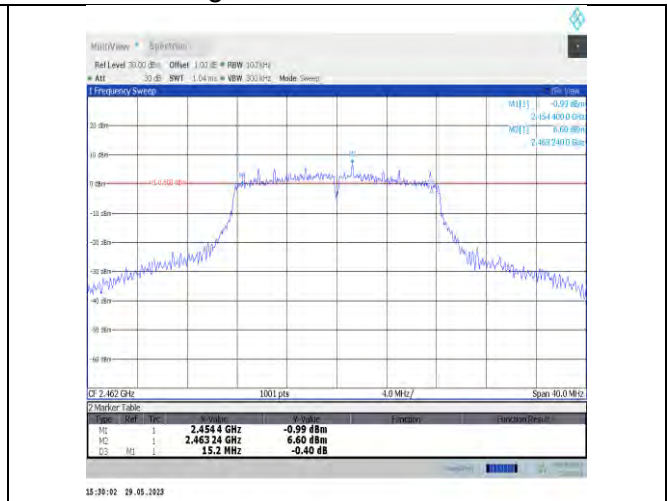
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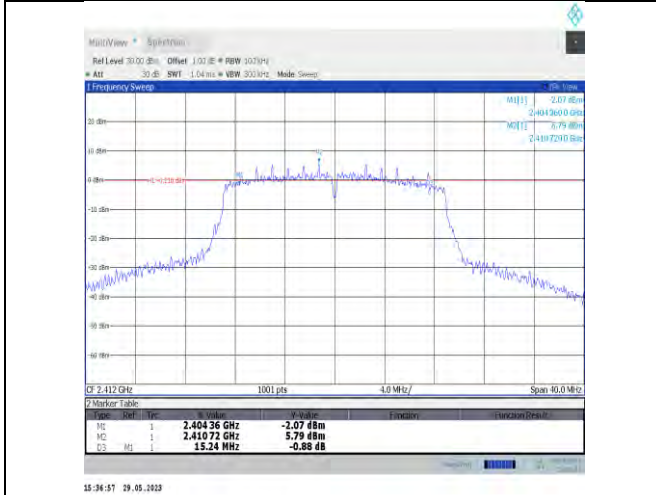




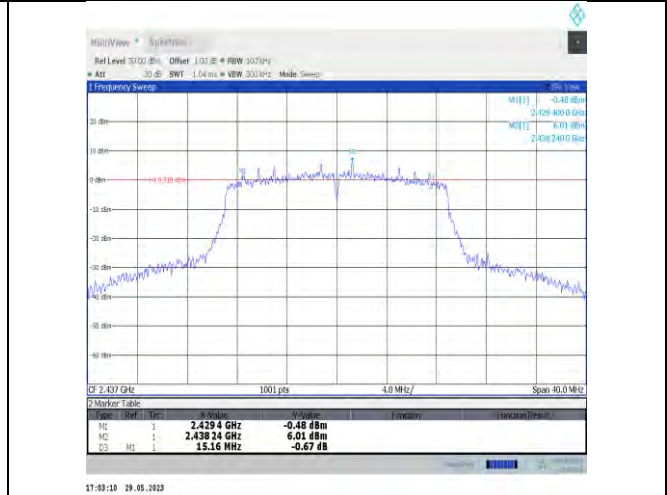
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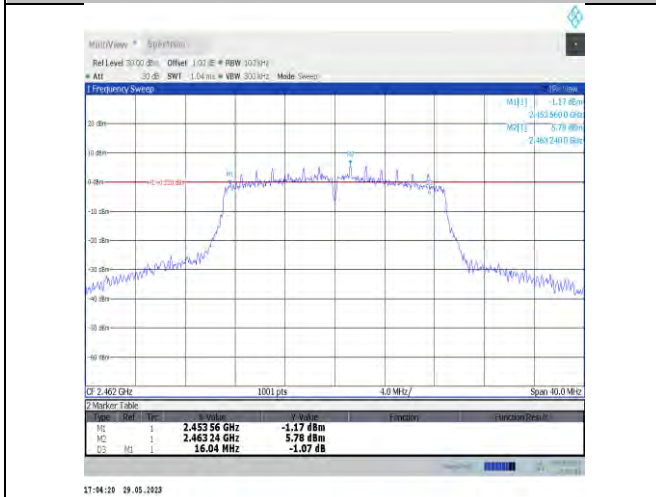
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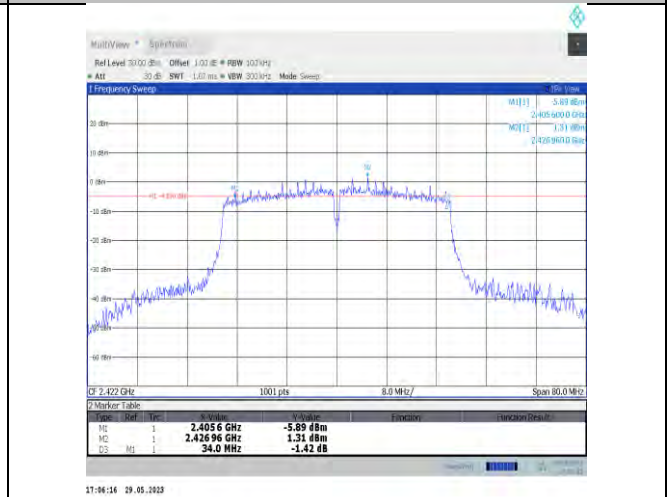
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11n20SISO-Ant22-2437



11n20SISO-Ant22-2462

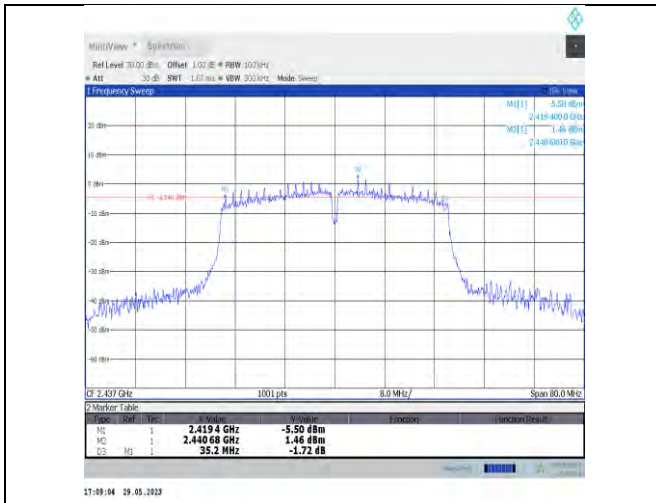


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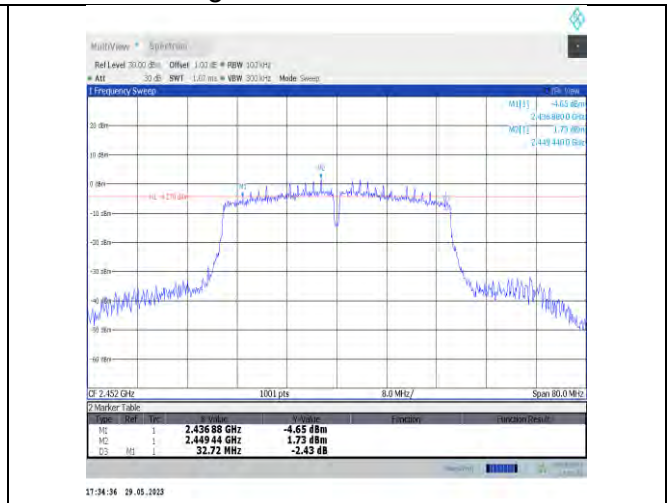


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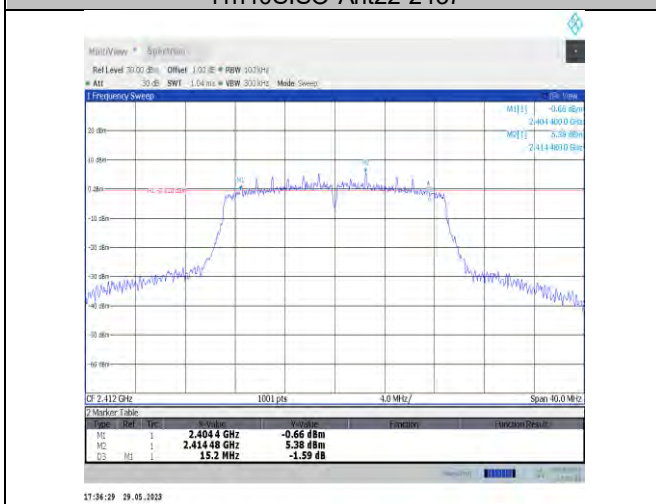
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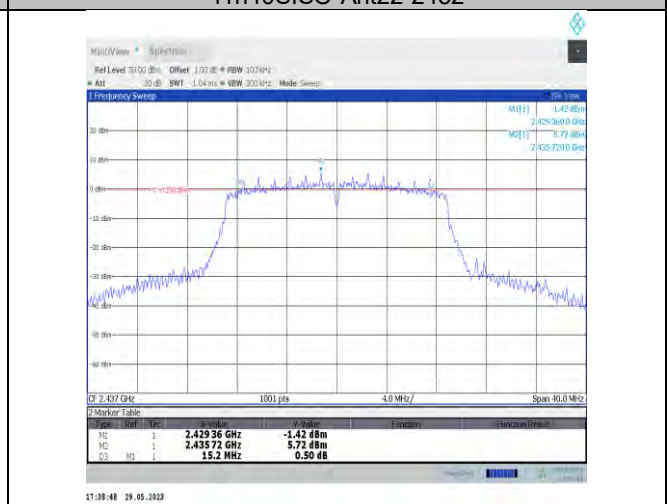
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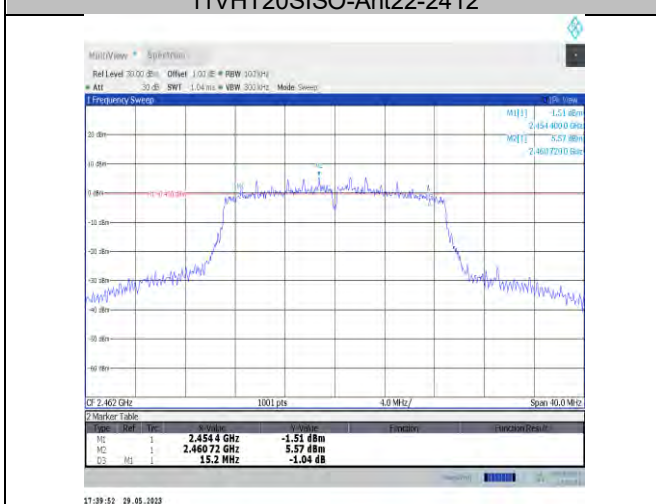
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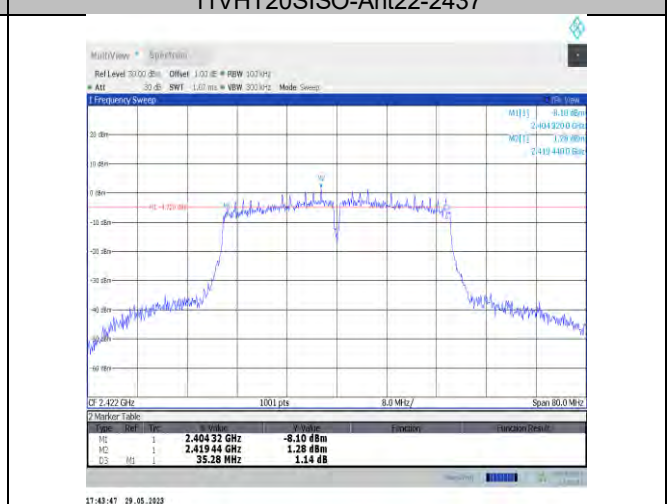
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11VHT20SISO-Ant22-2437



11VHT20SISO-Ant22-2462



11VHT40SISO-Ant22-2422



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11VHT40SISO-Ant22-2437

11VHT40SISO-Ant22-2452



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## Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11b	Ant22	2412	13.196	2405.3741	2418.5703	For Report Purpose
11b	Ant22	2437	13.3	2430.3252	2443.6257	
11b	Ant22	2462	13.39	2455.2329	2468.6227	
11g	Ant22	2412	17.065	2403.3786	2420.4435	
11g	Ant22	2437	17.018	2428.4493	2445.4672	
11g	Ant22	2462	17.105	2453.4151	2470.5204	
11n20SISO	Ant22	2412	17.979	2402.8915	2420.8705	
11n20SISO	Ant22	2437	17.97	2427.9689	2445.9389	
11n20SISO	Ant22	2462	18.022	2452.9289	2470.9505	
11n40SISO	Ant22	2422	36.329	2403.8811	2440.2104	
11n40SISO	Ant22	2437	36.272	2418.9289	2455.2008	
11n40SISO	Ant22	2452	36.326	2433.8577	2470.1832	
11VHT20SISO	Ant22	2412	17.98	2403.0183	2420.9983	
11VHT20SISO	Ant22	2437	17.97	2427.9904	2445.9600	
11VHT20SISO	Ant22	2462	17.963	2452.9690	2470.9323	
11VHT40SISO	Ant22	2422	36.299	2403.9040	2440.2030	
11VHT40SISO	Ant22	2437	36.135	2418.9821	2455.1167	
11VHT40SISO	Ant22	2452	36.147	2433.8988	2470.0459	

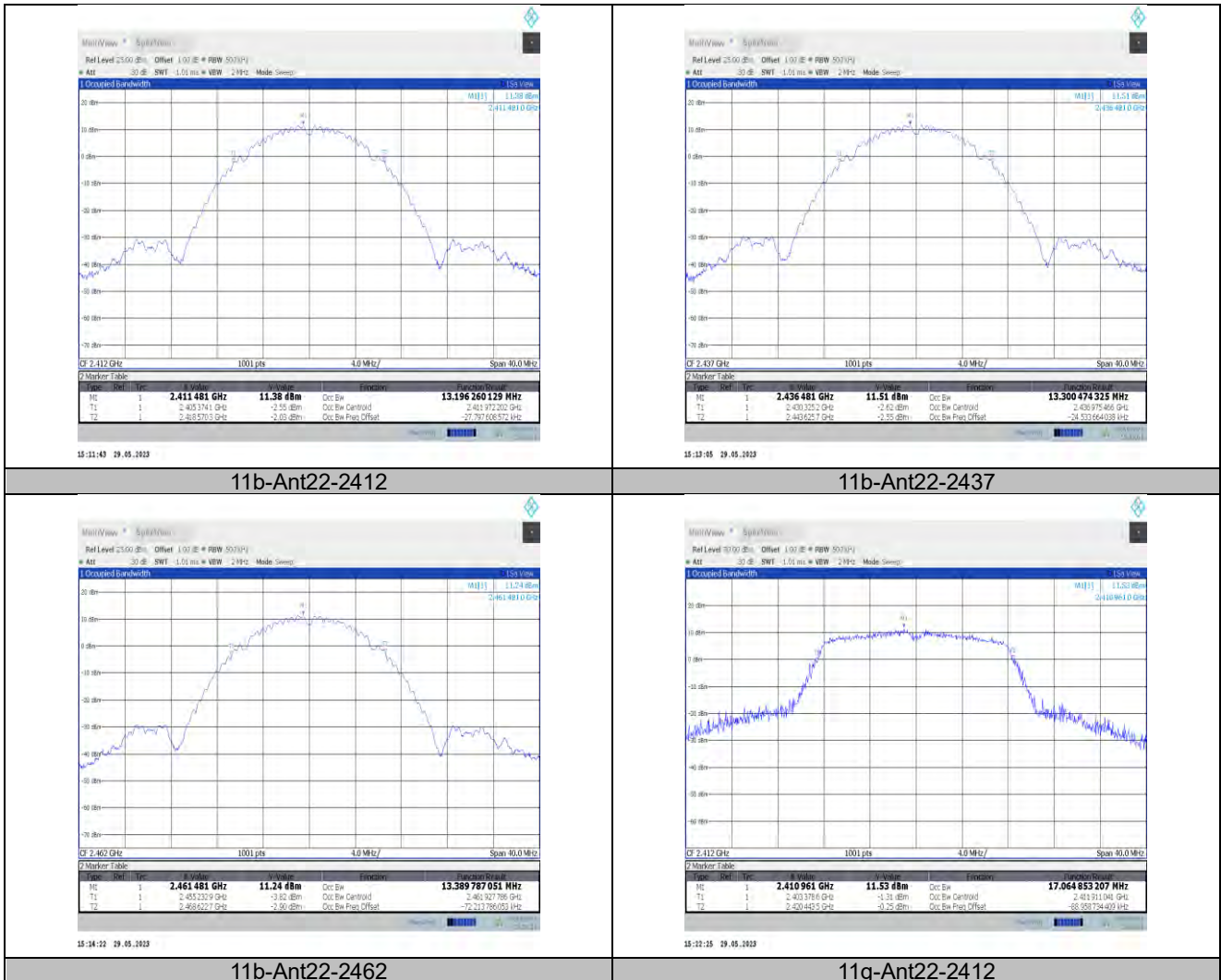


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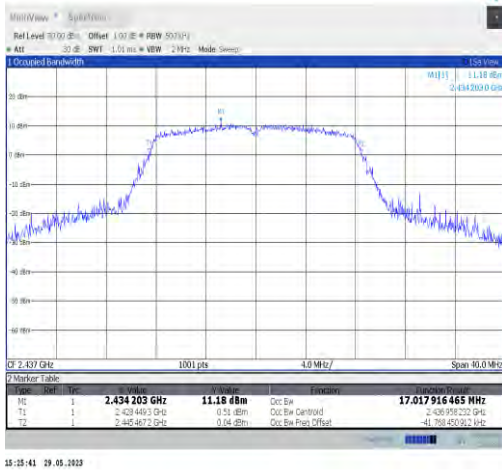
Test Graphs



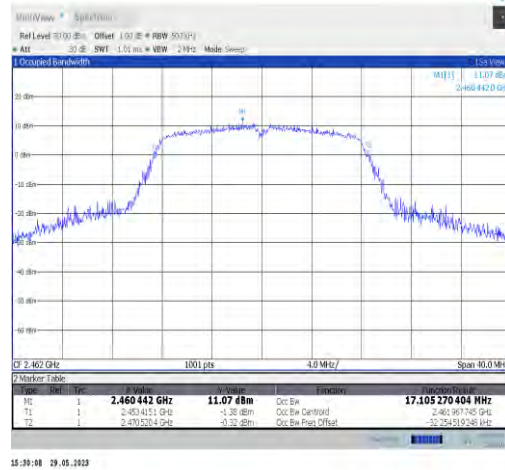
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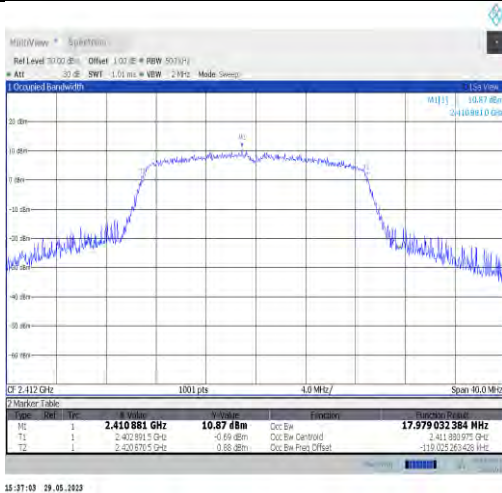
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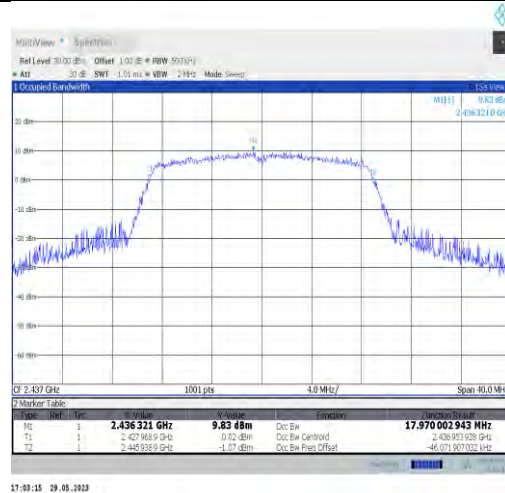
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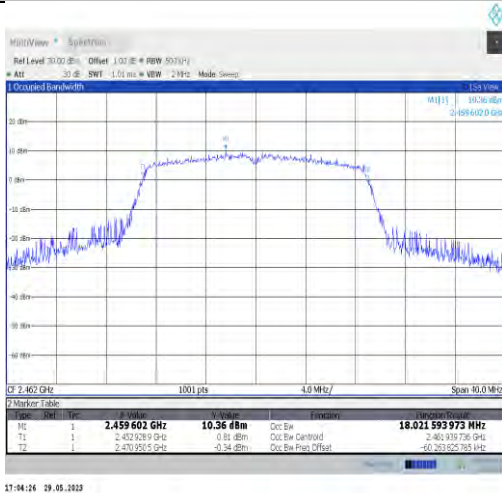
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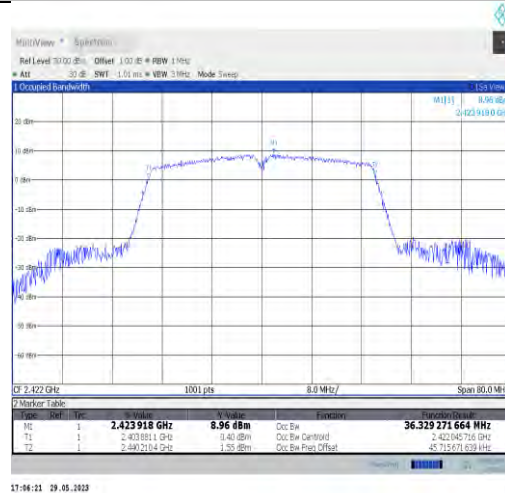
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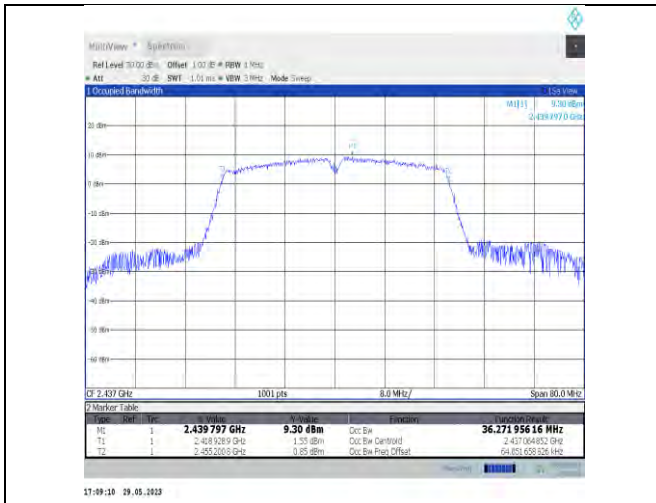


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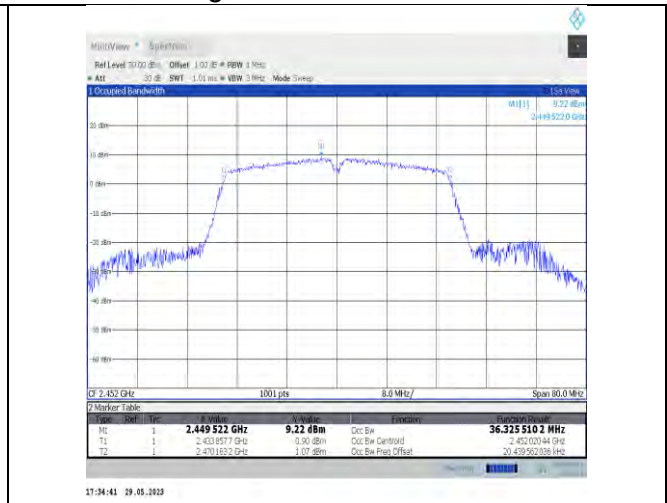


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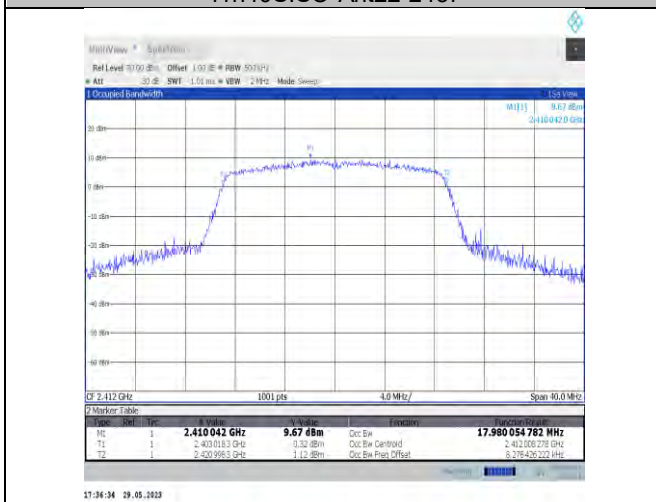
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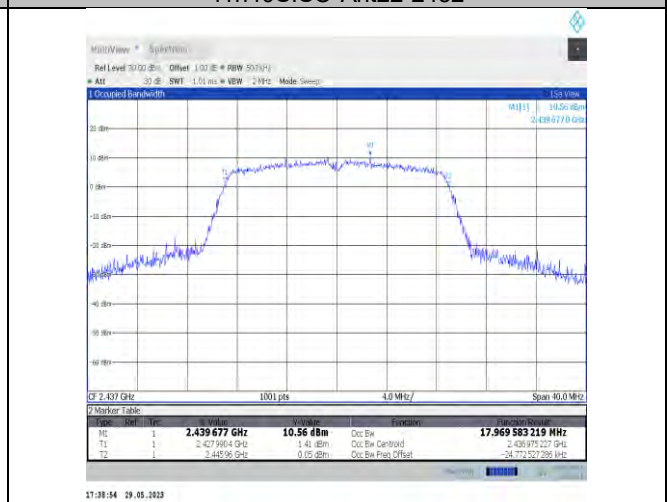
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11n40SISO-Ant22-2452



11VHT20SISO-Ant22-2412



11VHT20SISO-Ant22-2437



11VHT20SISO-Ant22-2462



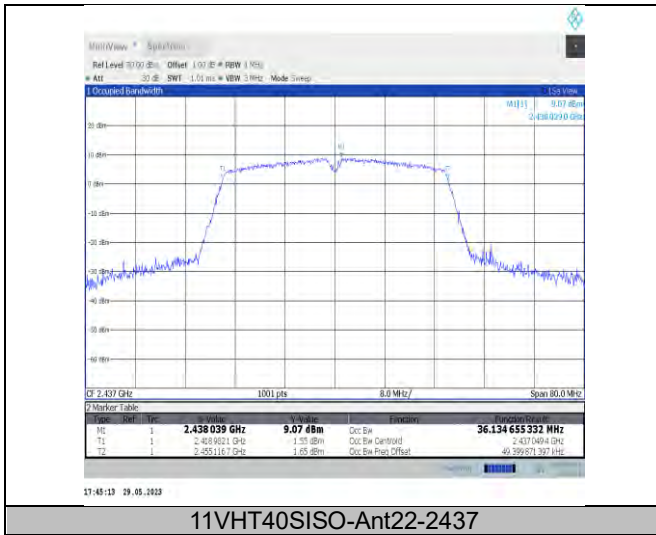
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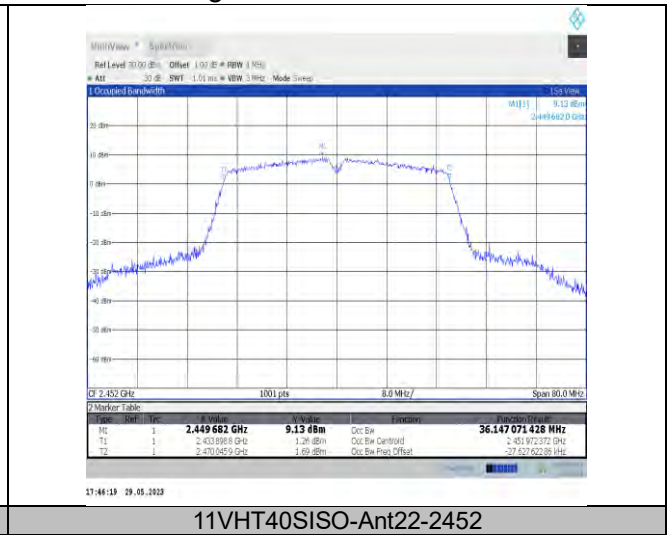
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11VHT40SISO-Ant22-2437



11VHT40SISO-Ant22-2452



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## Maximum conducted output power

### Test Result Peak

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant22	2412	21.84	≤30.00	PASS
11b	Ant22	2437	21.69	≤30.00	PASS
11b	Ant22	2462	21.82	≤30.00	PASS
11g	Ant22	2412	24.32	≤30.00	PASS
11g	Ant22	2437	24.21	≤30.00	PASS
11g	Ant22	2462	24.55	≤30.00	PASS
11n20SISO	Ant22	2412	23.65	≤30.00	PASS
11n20SISO	Ant22	2437	23.32	≤30.00	PASS
11n20SISO	Ant22	2462	23.58	≤30.00	PASS
11n40SISO	Ant22	2422	22.49	≤30.00	PASS
11n40SISO	Ant22	2437	22.83	≤30.00	PASS
11n40SISO	Ant22	2452	22.29	≤30.00	PASS
11VHT20SISO	Ant22	2412	23.51	≤30.00	PASS
11VHT20SISO	Ant22	2437	23.59	≤30.00	PASS
11VHT20SISO	Ant22	2462	23.57	≤30.00	PASS
11VHT40SISO	Ant22	2422	22.32	≤30.00	PASS
11VHT40SISO	Ant22	2437	22.12	≤30.00	PASS
11VHT40SISO	Ant22	2452	22.26	≤30.00	PASS



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## Maximum power spectral density

### Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant22	2412	-3.14	≤8.00	PASS
11b	Ant22	2437	-2.75	≤8.00	PASS
11b	Ant22	2462	-2.81	≤8.00	PASS
11g	Ant22	2412	-7.53	≤8.00	PASS
11g	Ant22	2437	-7.38	≤8.00	PASS
11g	Ant22	2462	-7.68	≤8.00	PASS
11n20SISO	Ant22	2412	-7.23	≤8.00	PASS
11n20SISO	Ant22	2437	-7.48	≤8.00	PASS
11n20SISO	Ant22	2462	-8.42	≤8.00	PASS
11n40SISO	Ant22	2422	-13.71	≤8.00	PASS
11n40SISO	Ant22	2437	-12.93	≤8.00	PASS
11n40SISO	Ant22	2452	-12.69	≤8.00	PASS
11VHT20SISO	Ant22	2412	-8.53	≤8.00	PASS
11VHT20SISO	Ant22	2437	-8.74	≤8.00	PASS
11VHT20SISO	Ant22	2462	-7.98	≤8.00	PASS
11VHT40SISO	Ant22	2422	-11.14	≤8.00	PASS
11VHT40SISO	Ant22	2437	-13.23	≤8.00	PASS
11VHT40SISO	Ant22	2452	-13.35	≤8.00	PASS



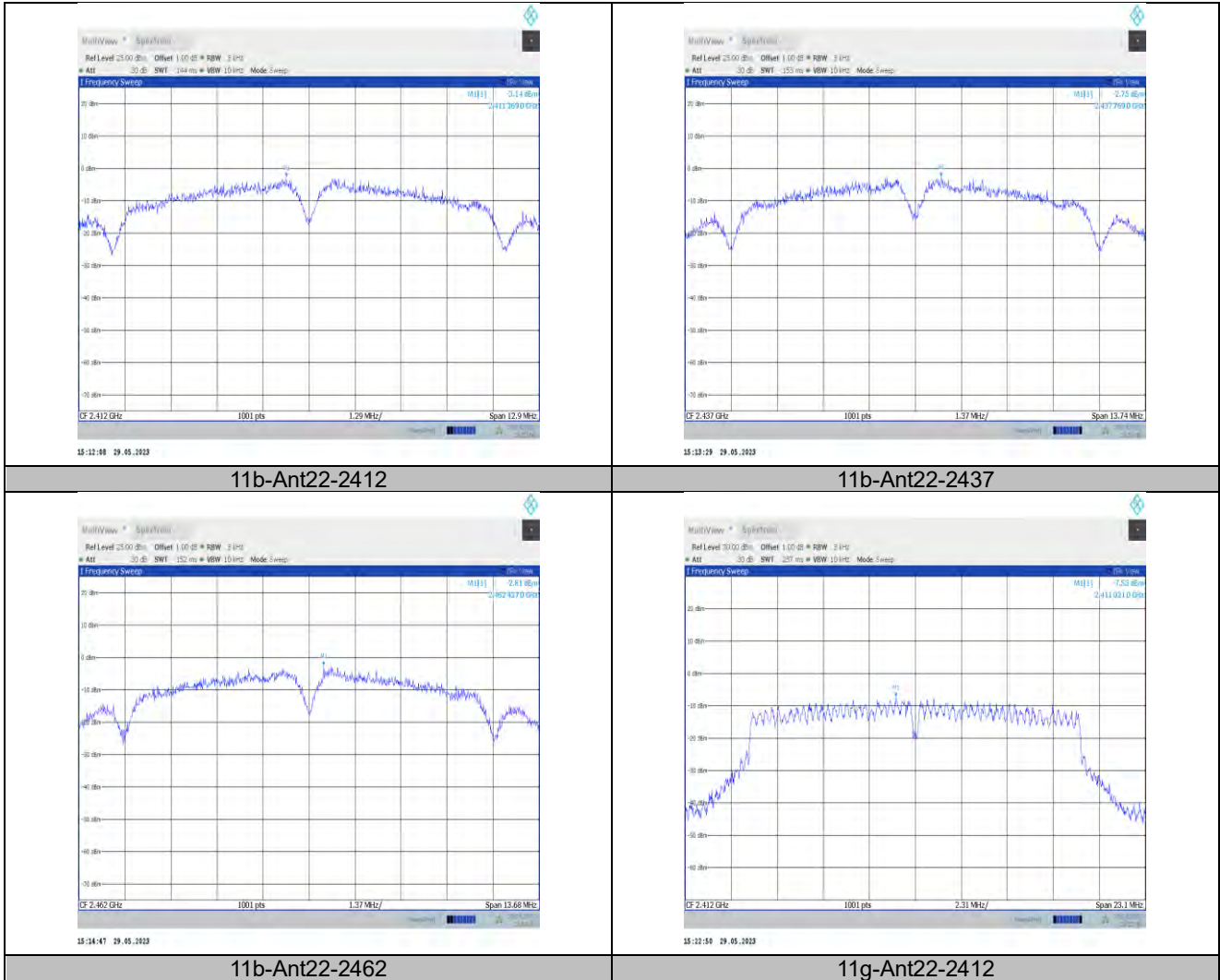
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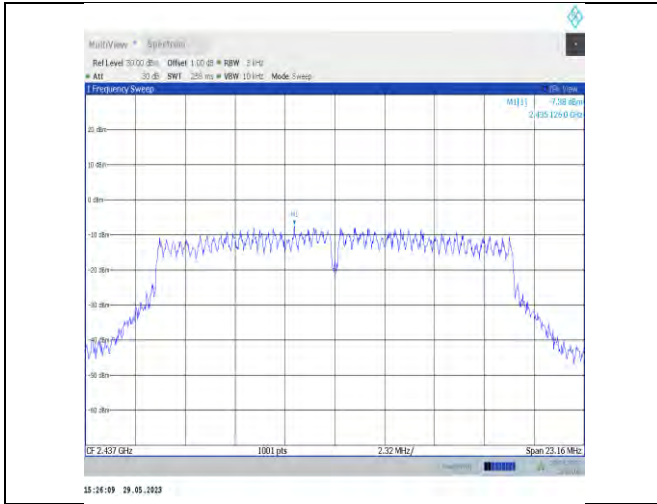
Test Graphs



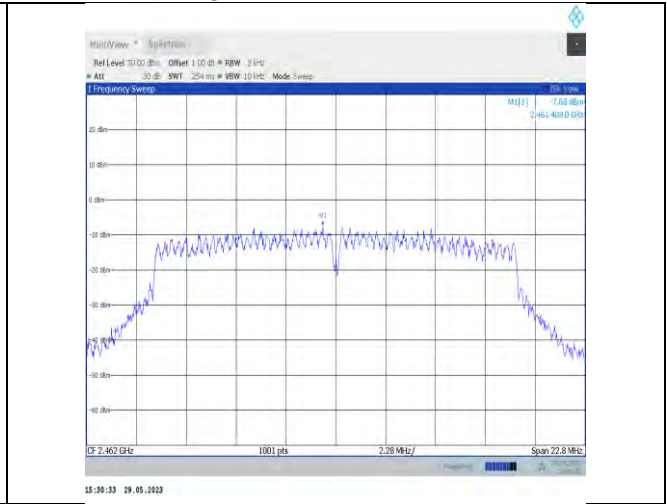
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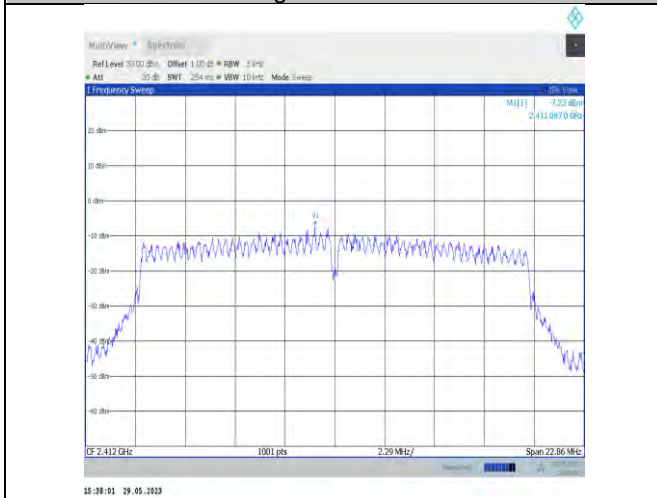
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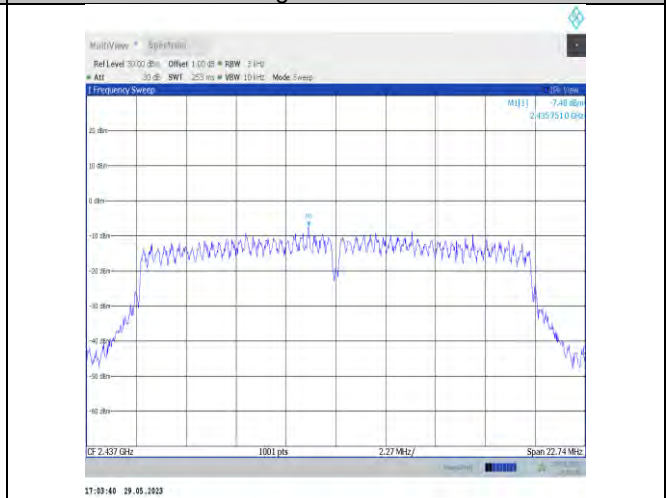
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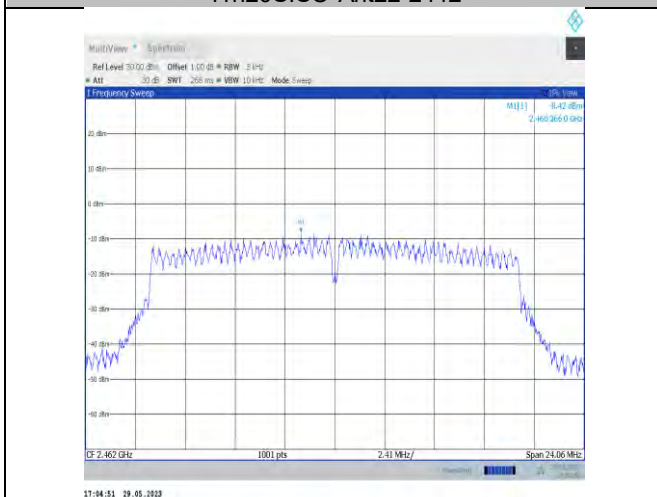
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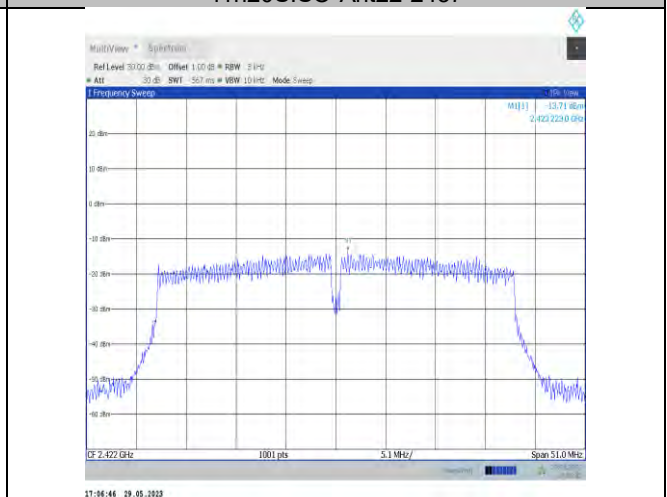
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11n20SISO-Ant22-2437



11n20SISO-Ant22-2462

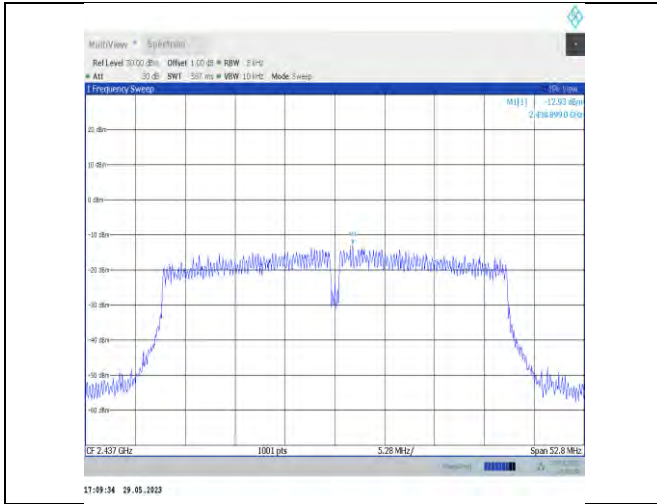


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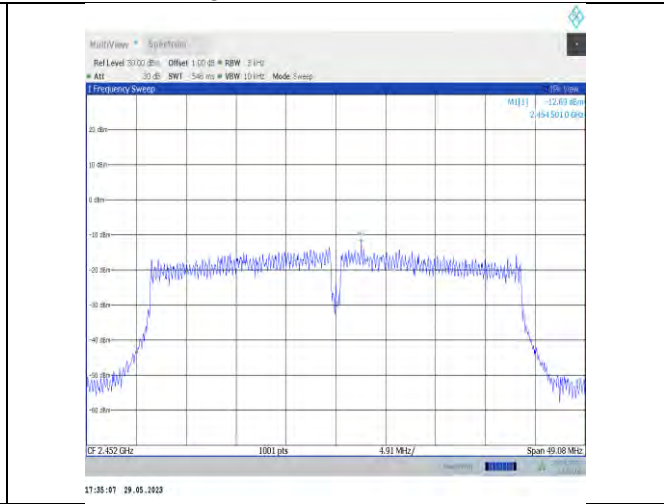


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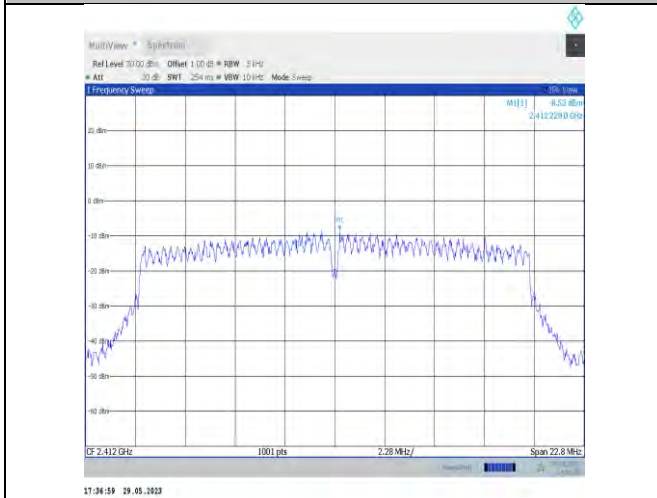
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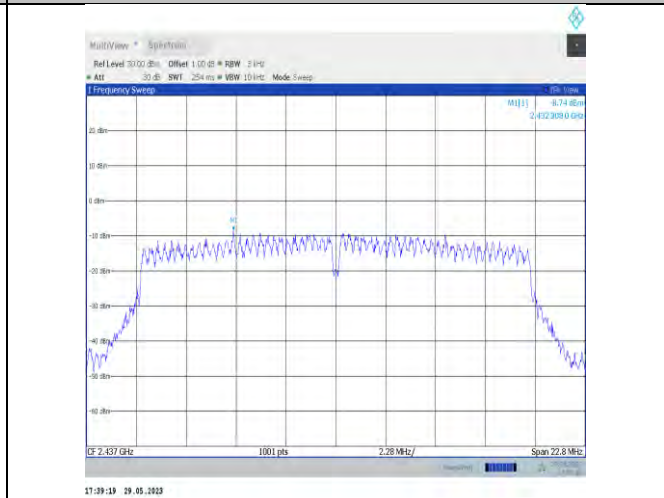
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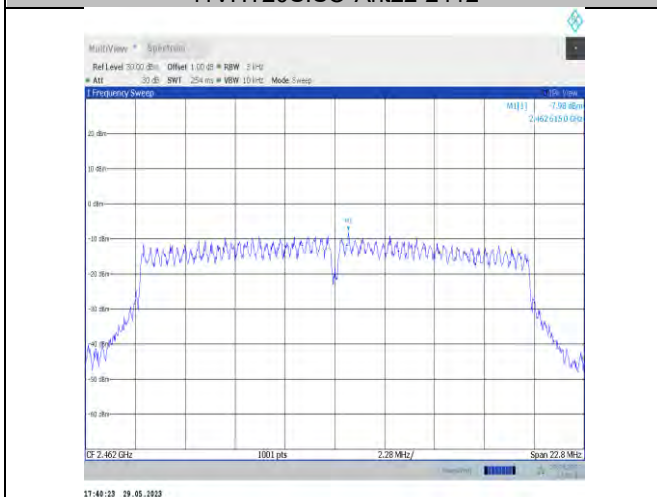
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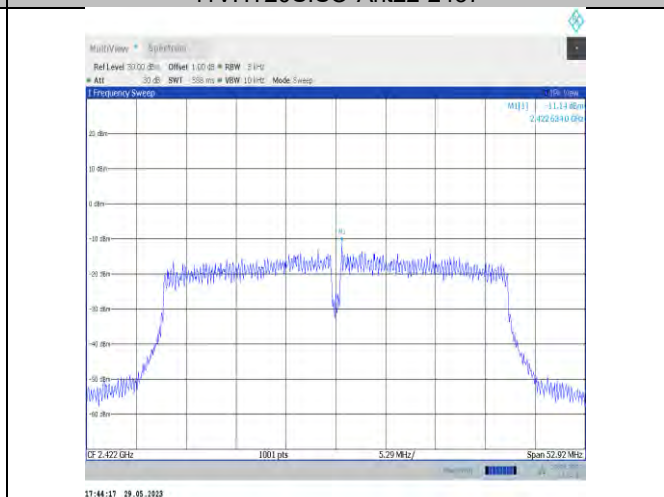
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11VHT20SISO-Ant22-2437



11VHT20SISO-Ant22-2462

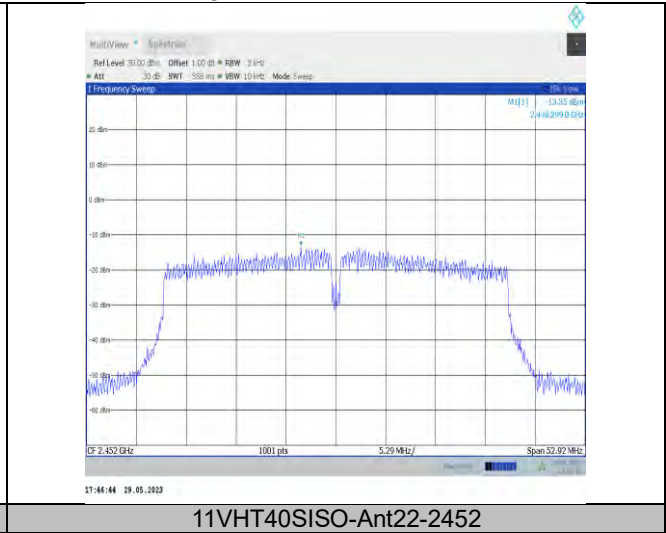
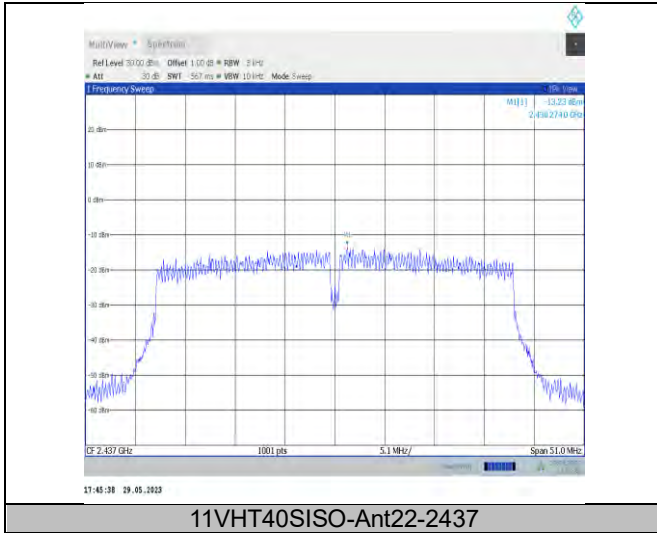


11VHT40SISO-Ant22-2422



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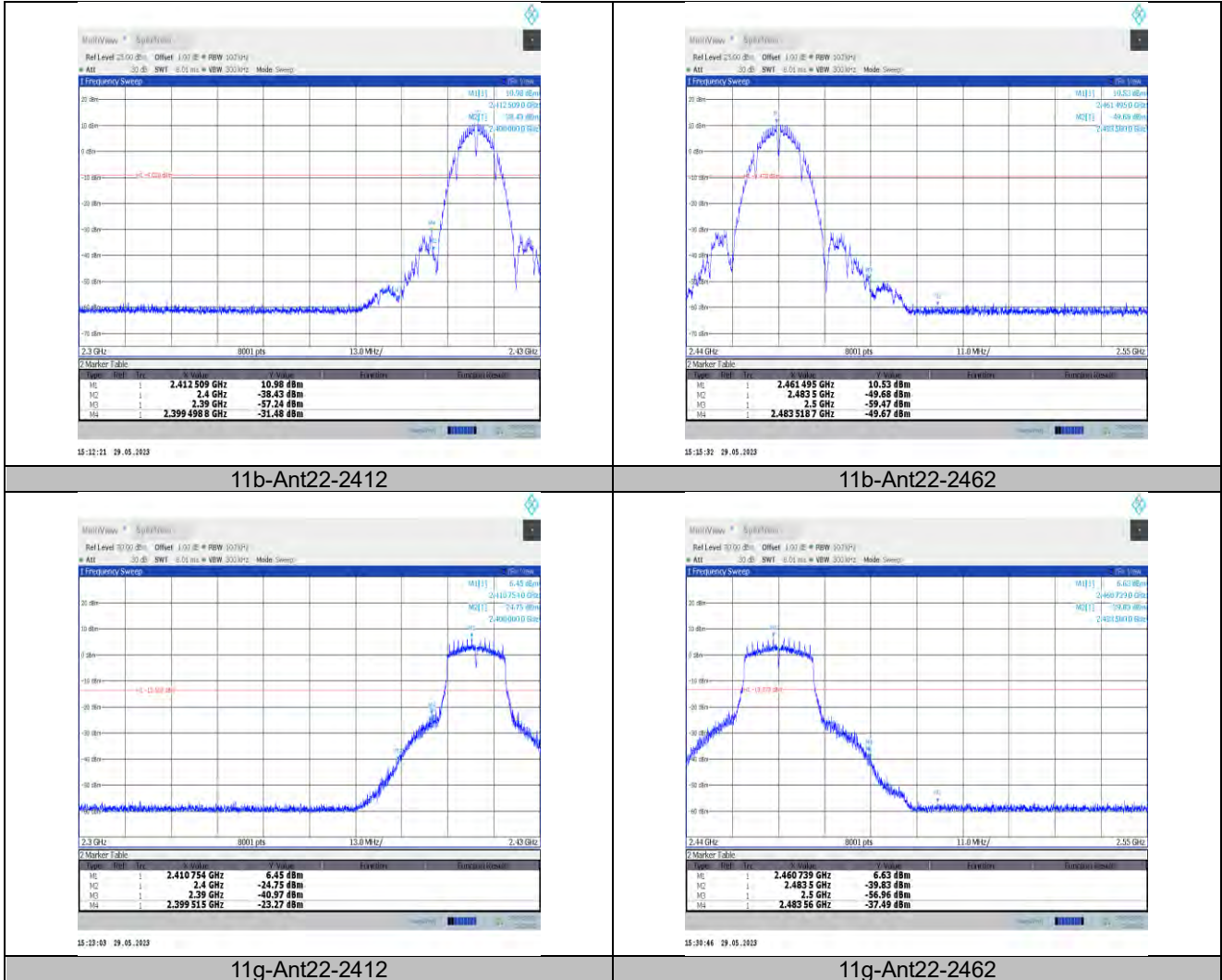
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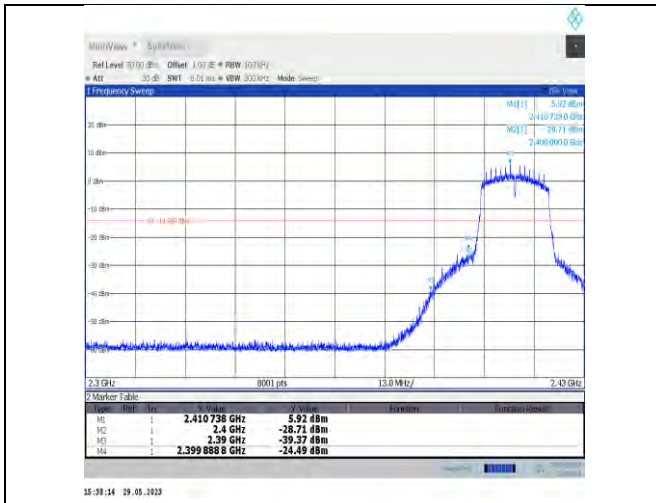
## Band edge measurements

### Test Graphs

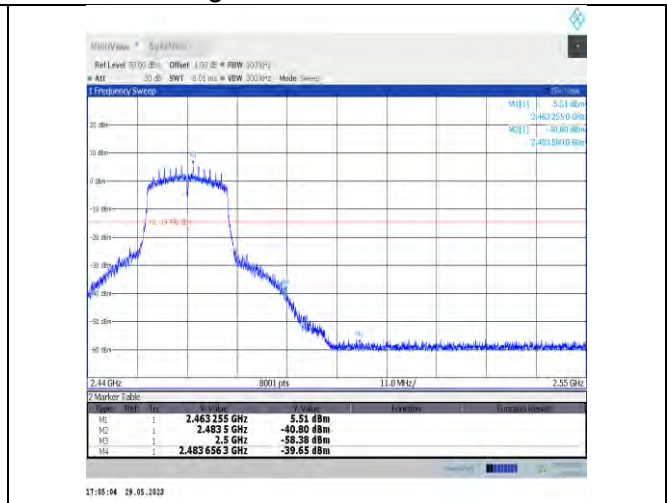


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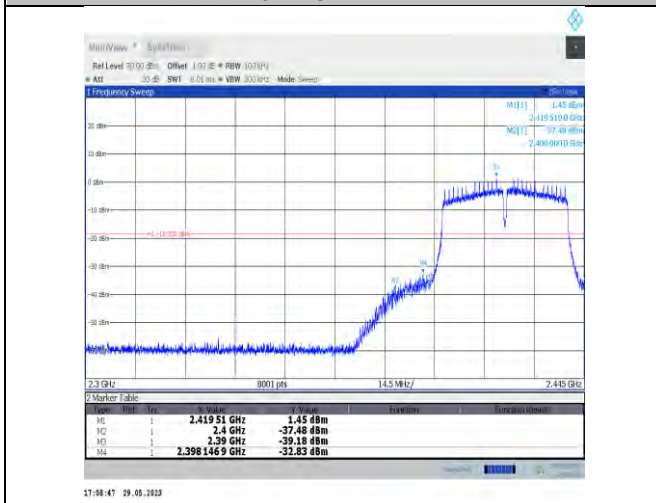
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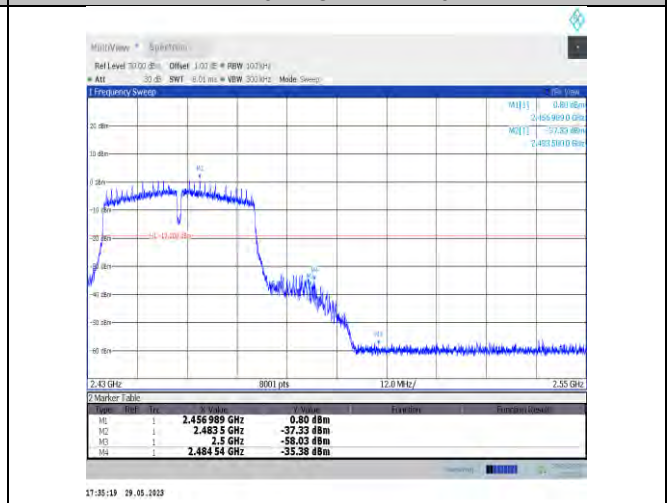
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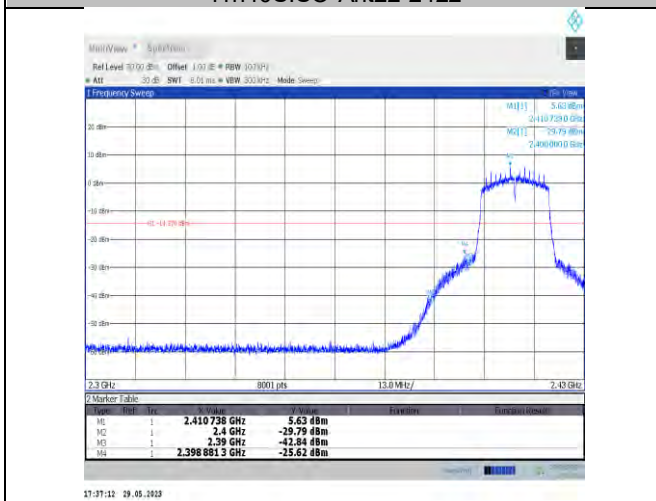
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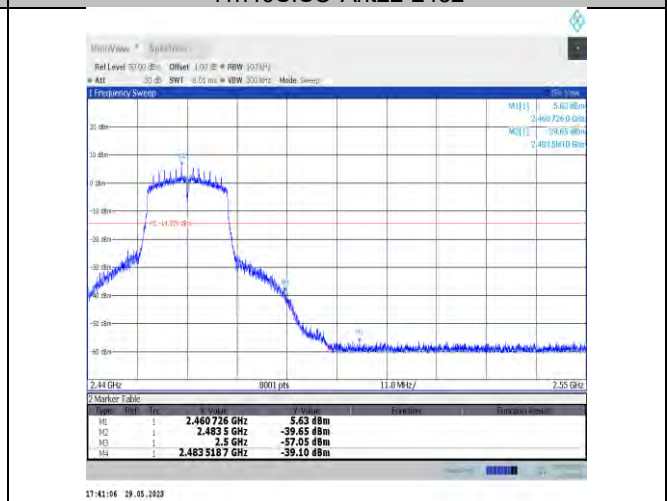
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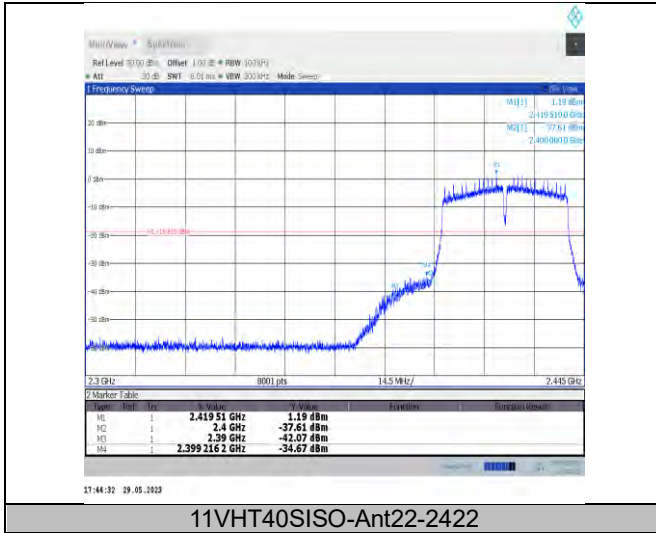
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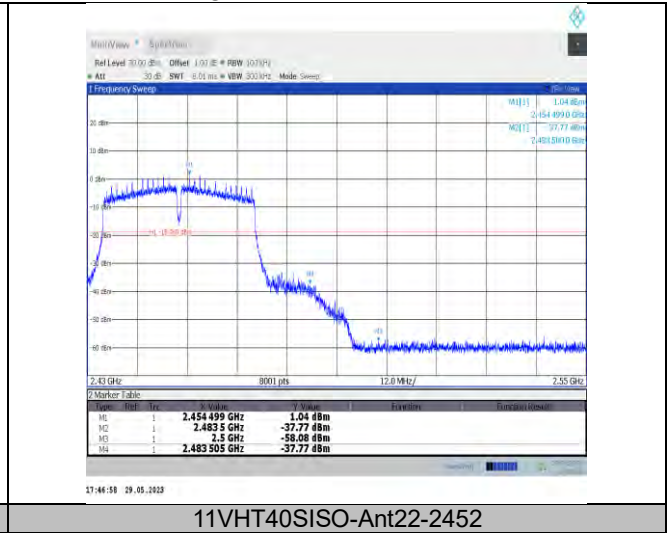
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11VHT40SISO-Ant22-2422



11VHT40SISO-Ant22-2452



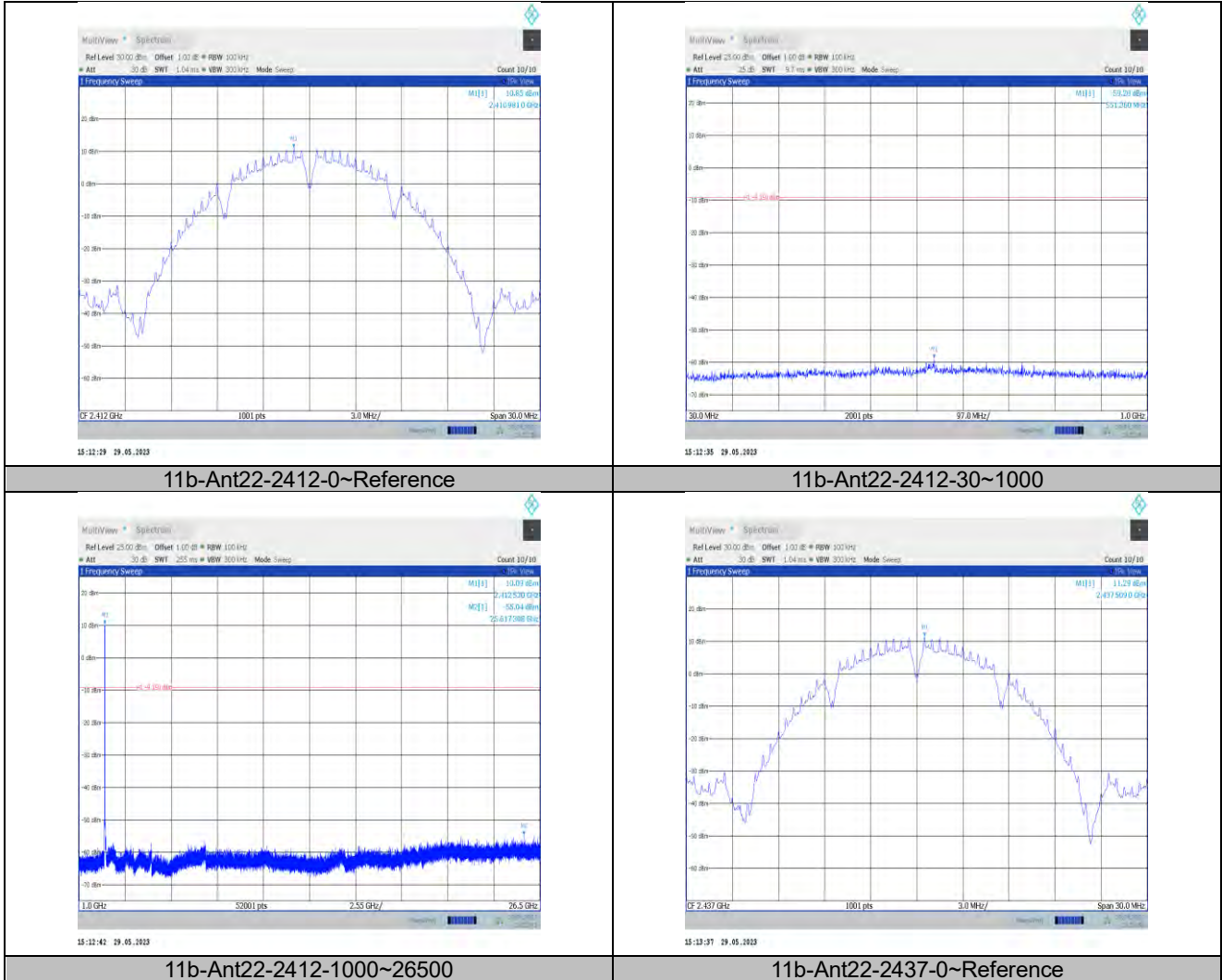
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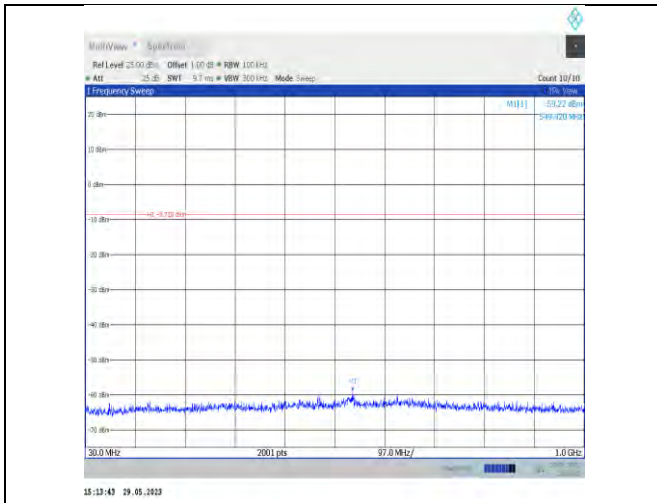
### Test Graphs



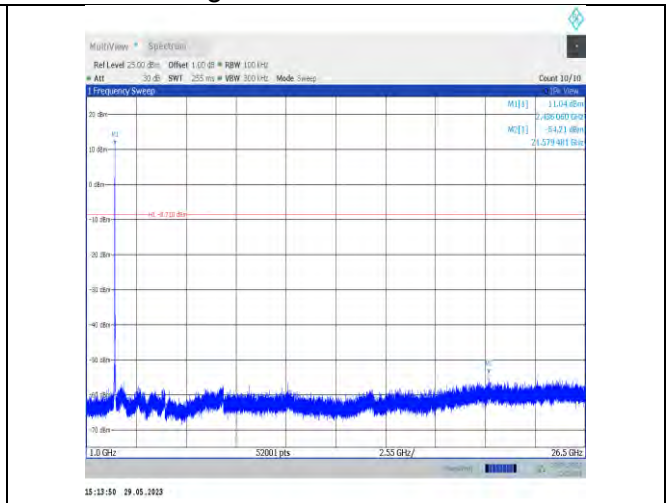
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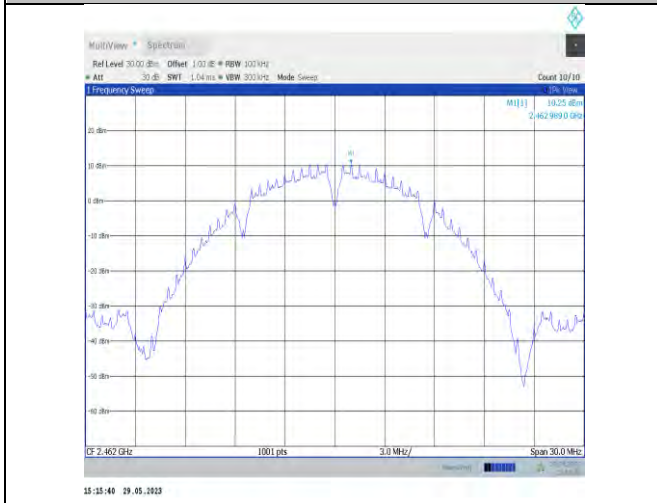
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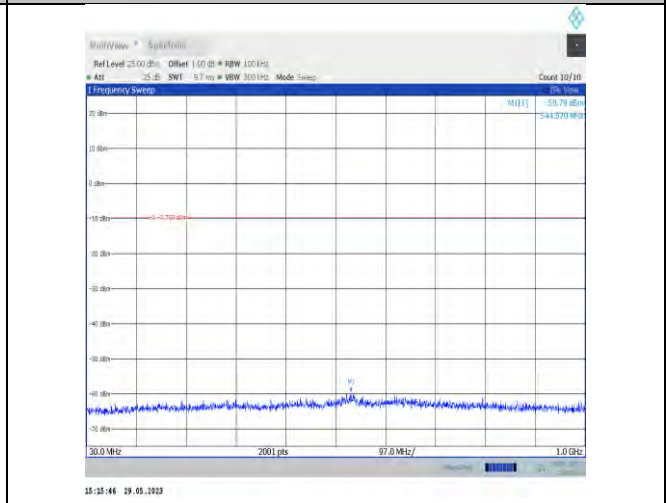
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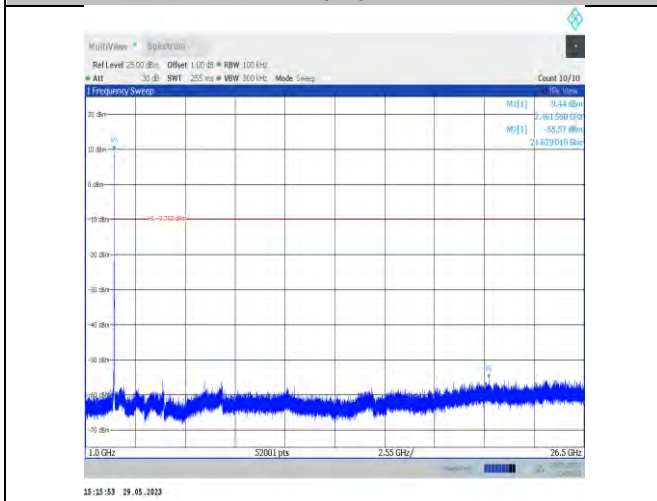
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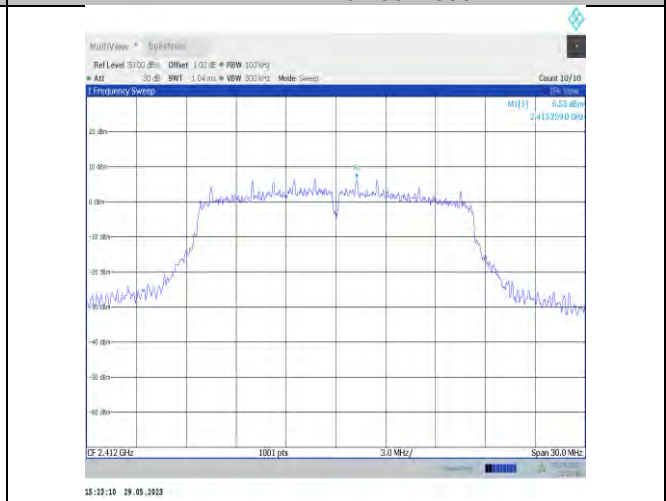
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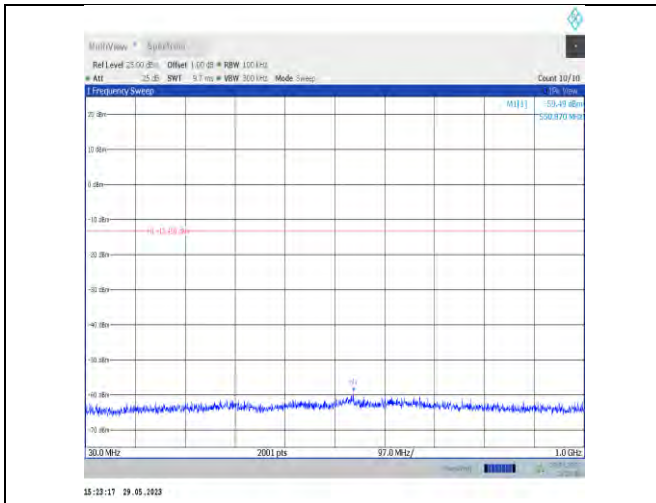


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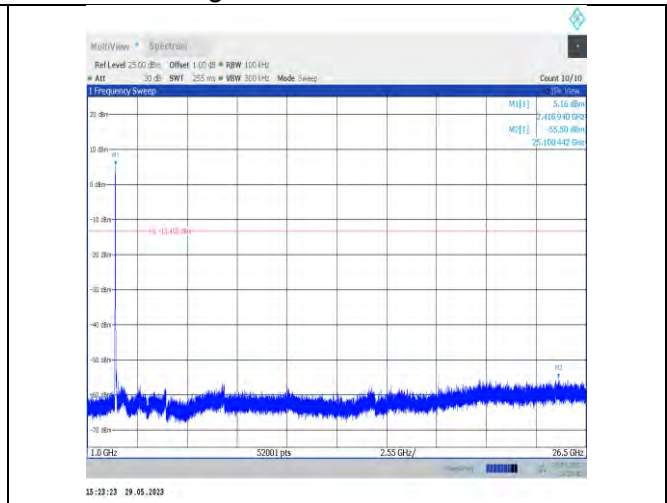


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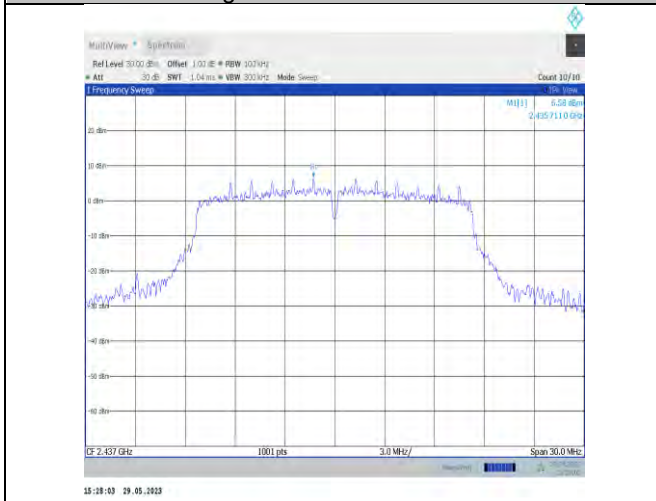
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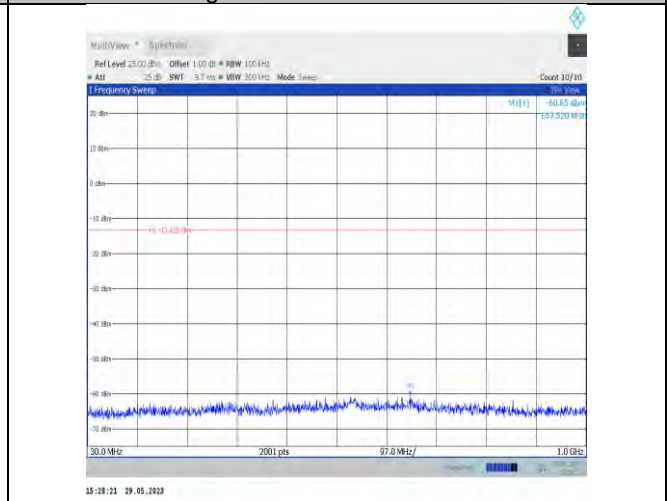
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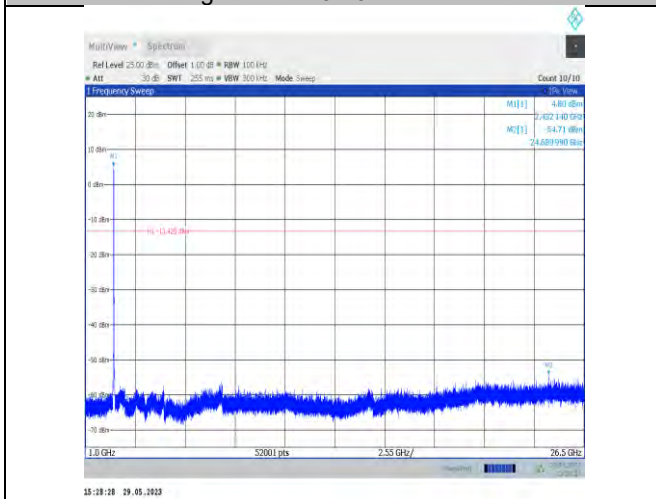
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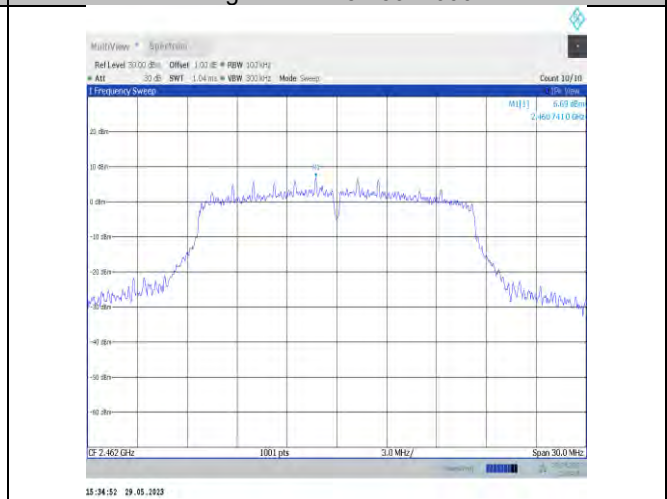
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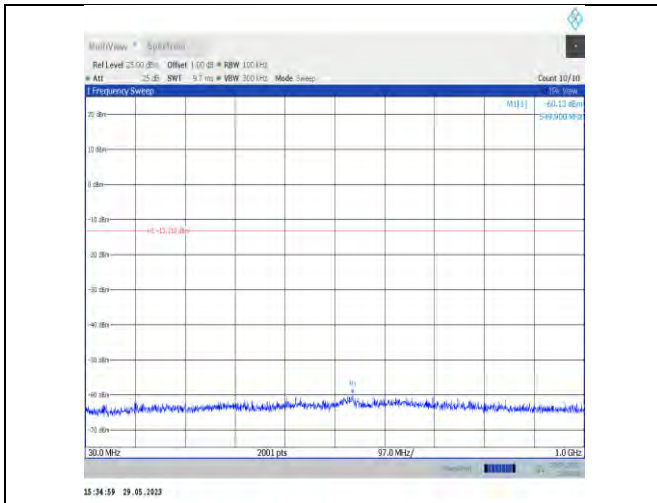


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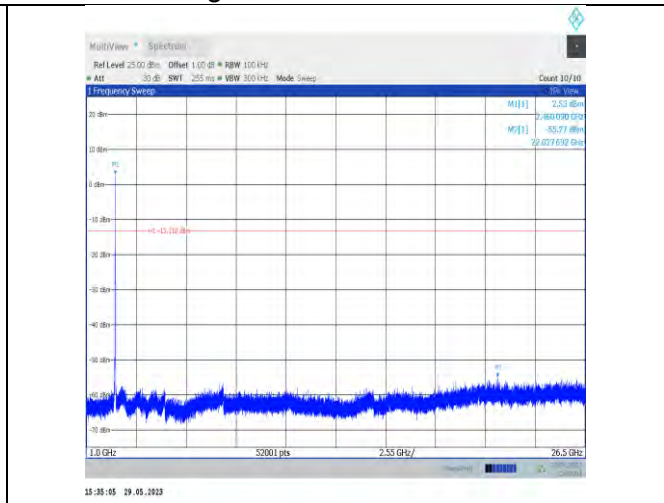


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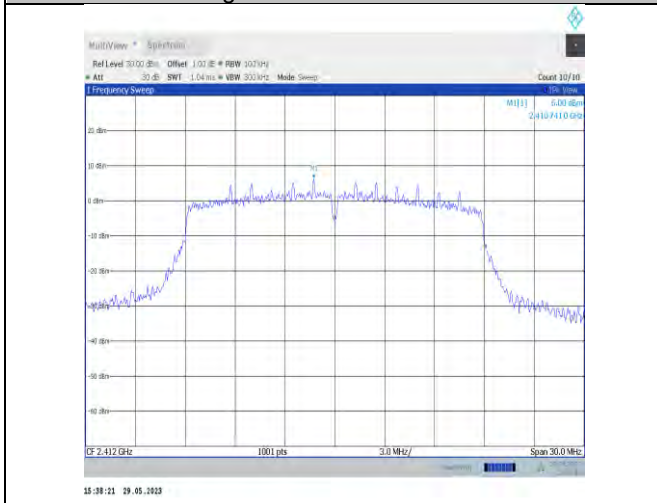
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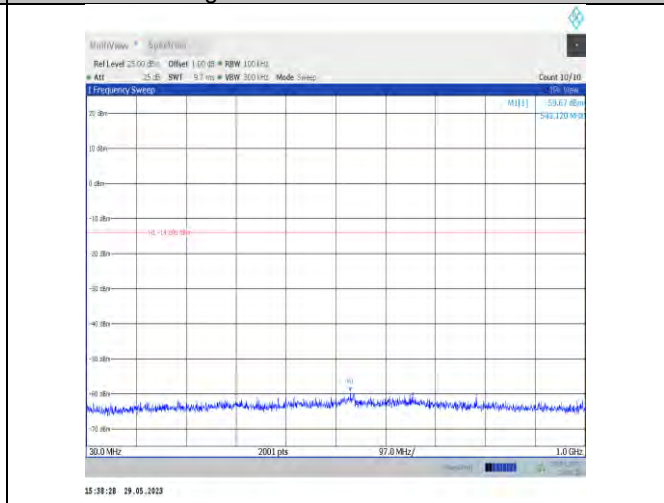
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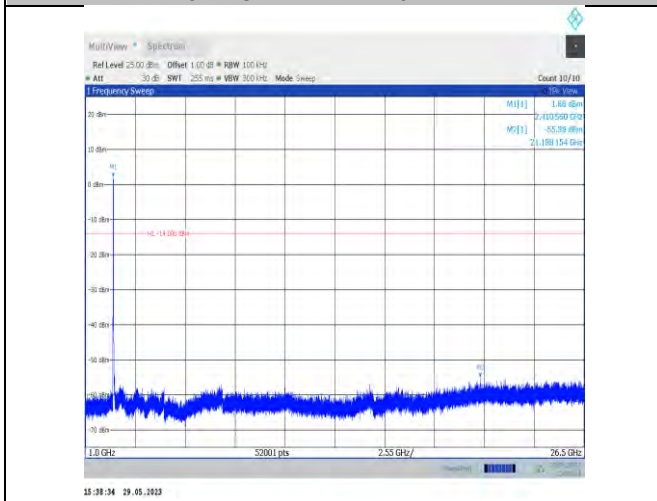
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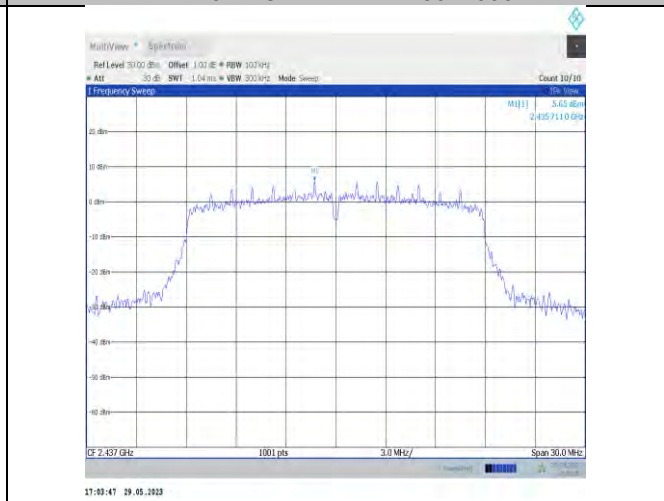
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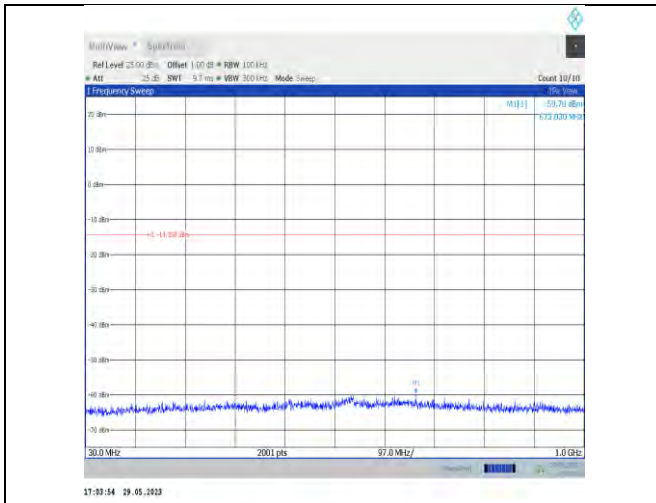


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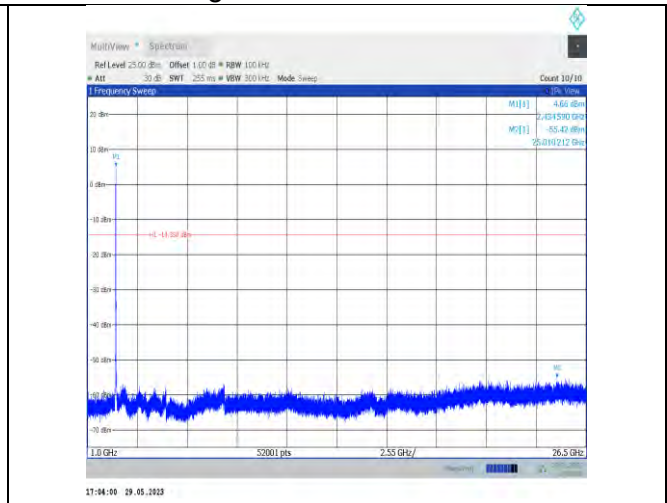


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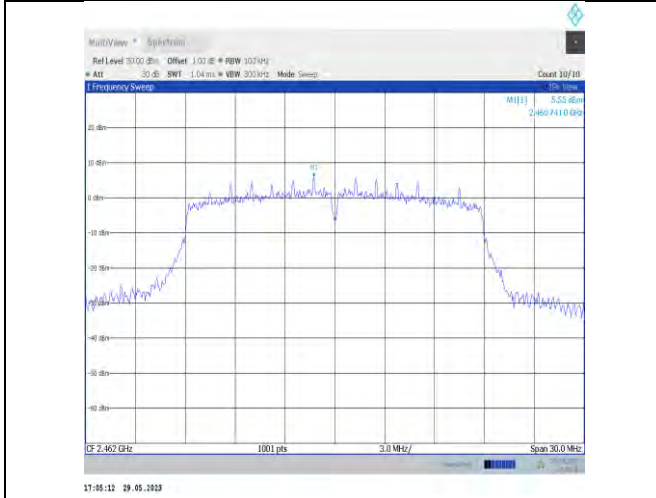
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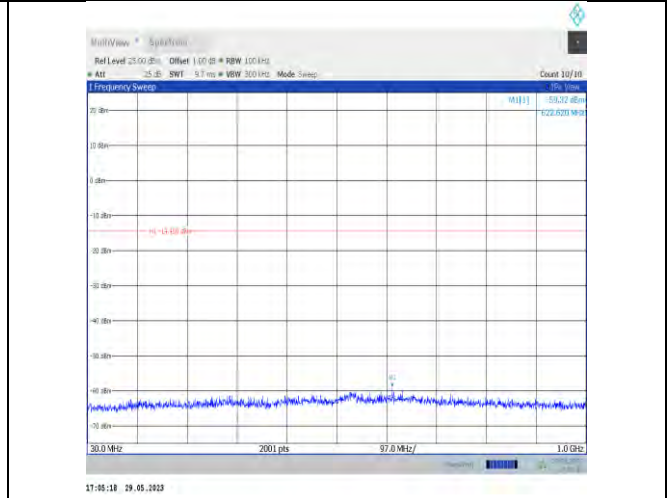
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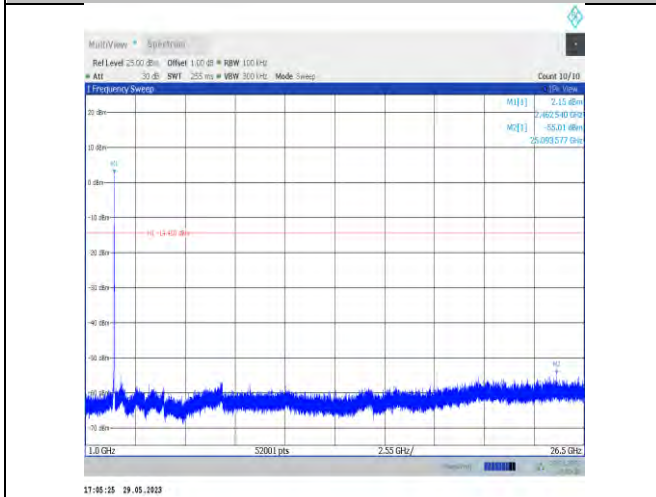
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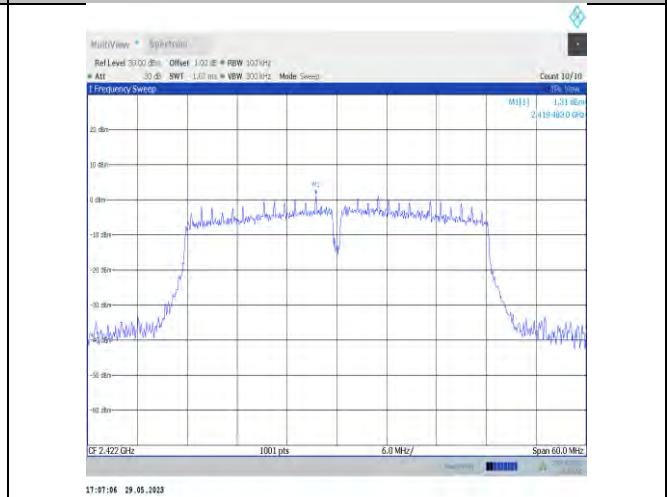
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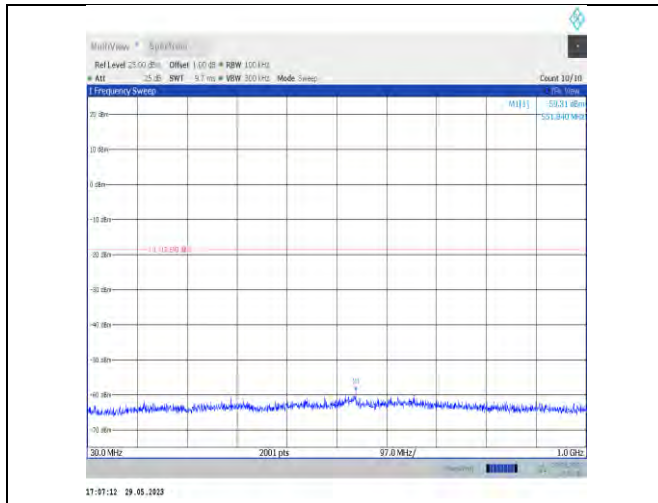


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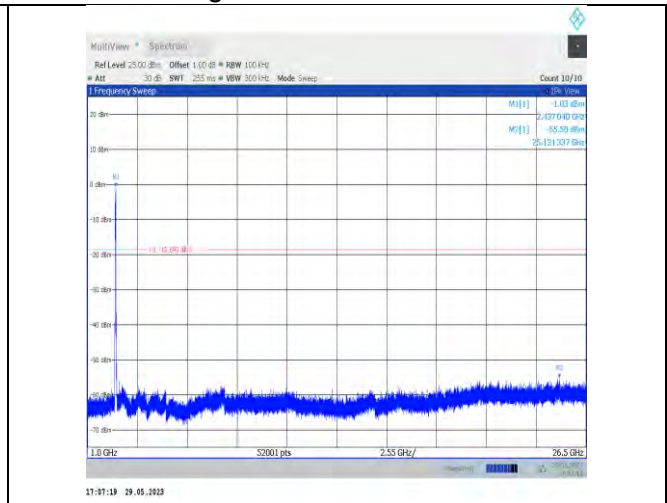


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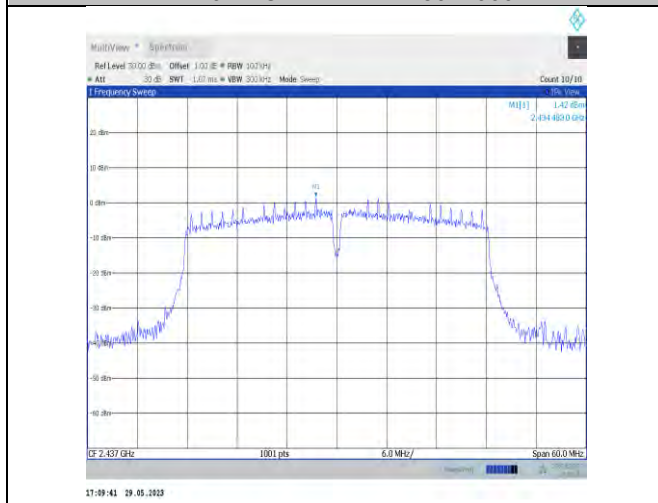
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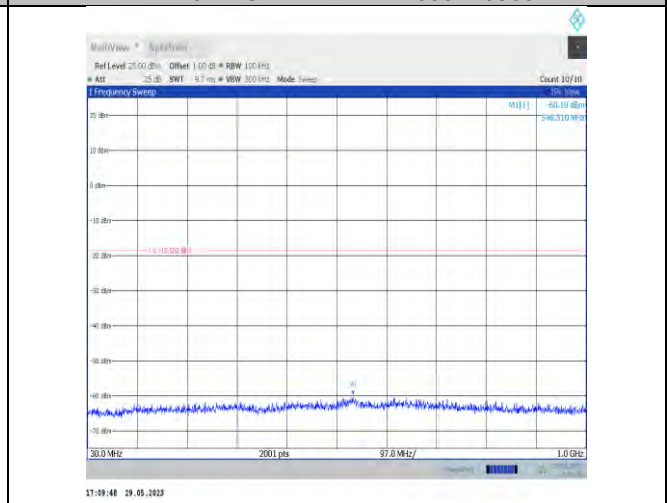
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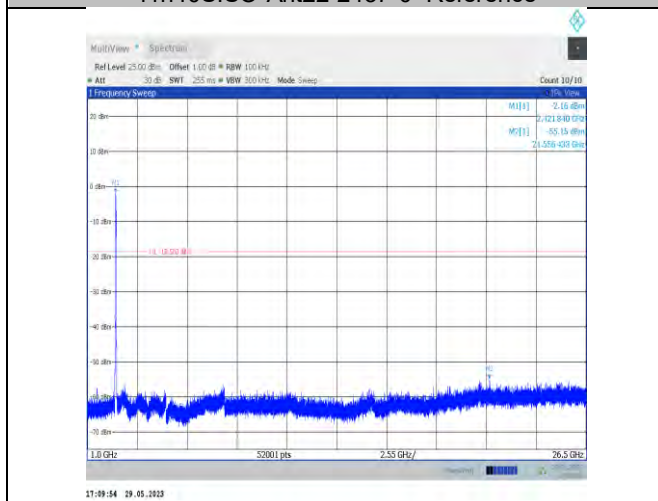
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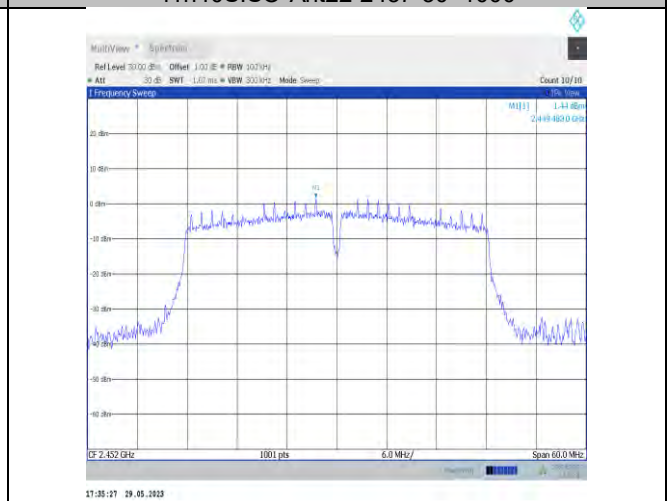
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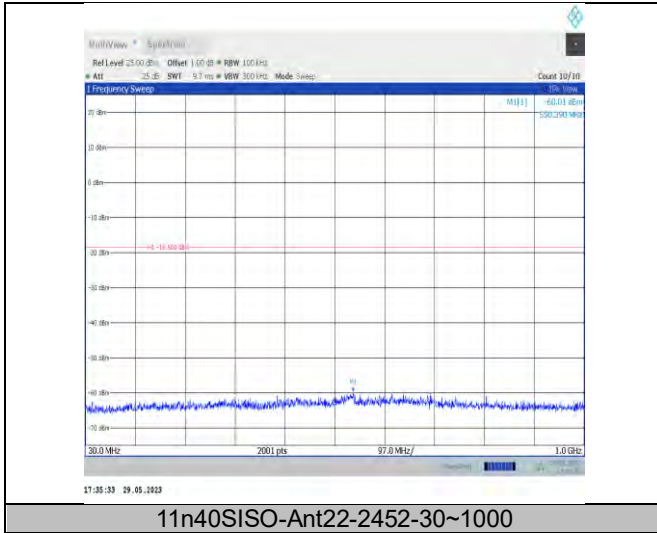


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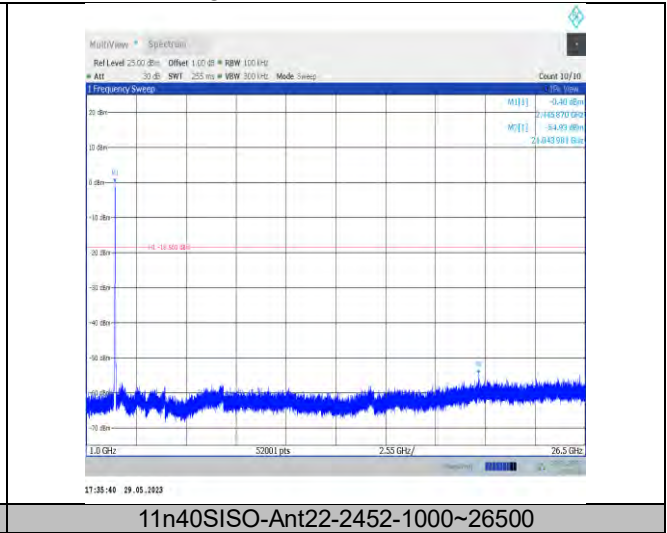


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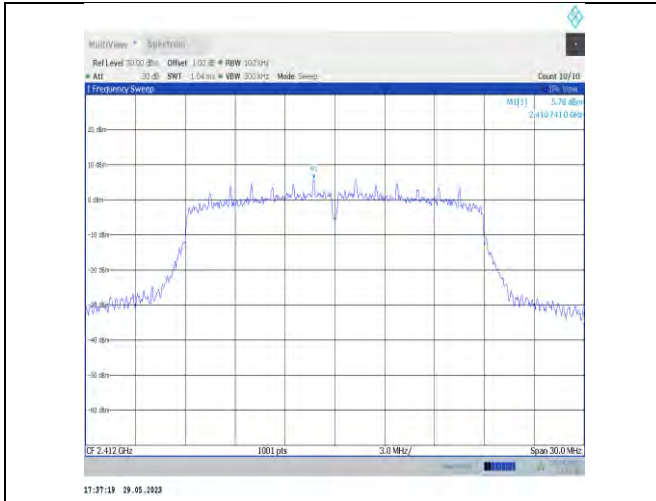


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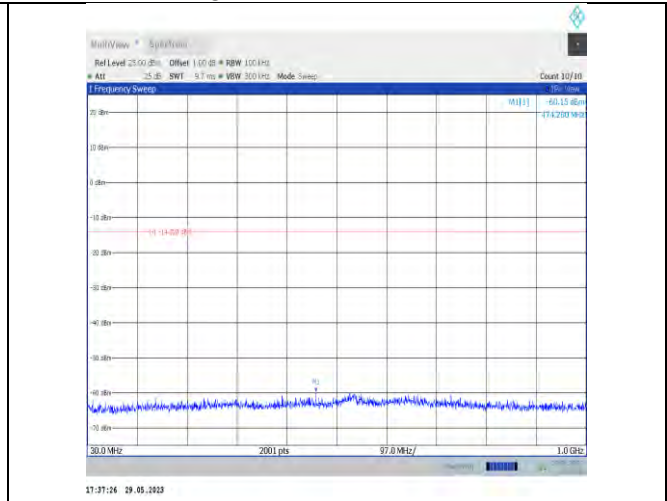
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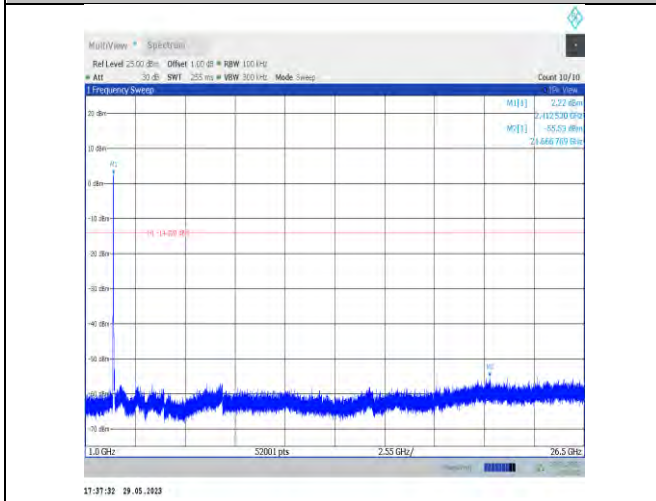




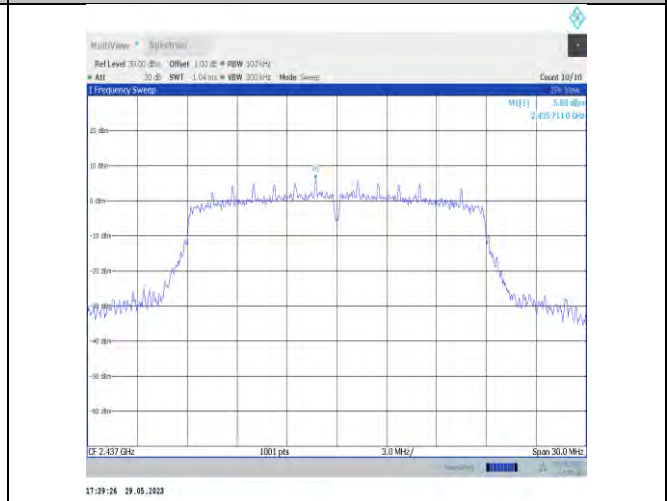
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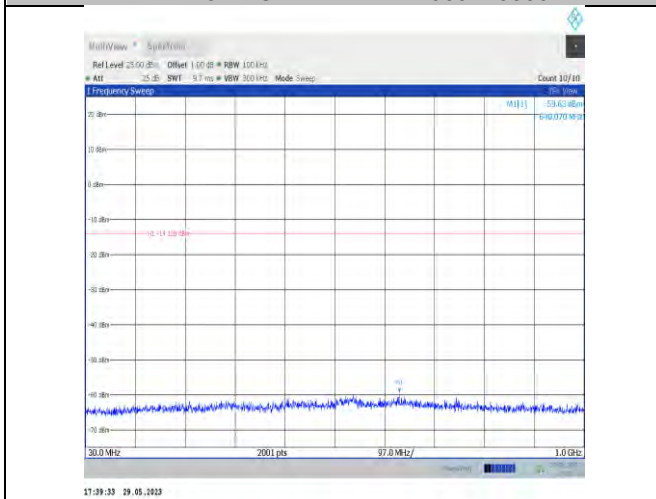
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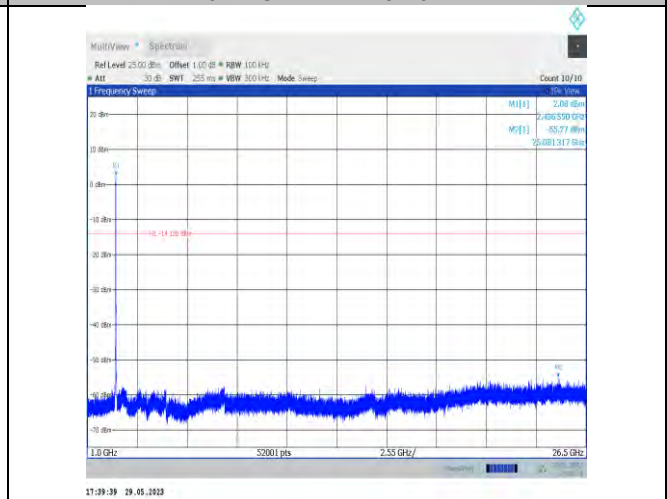
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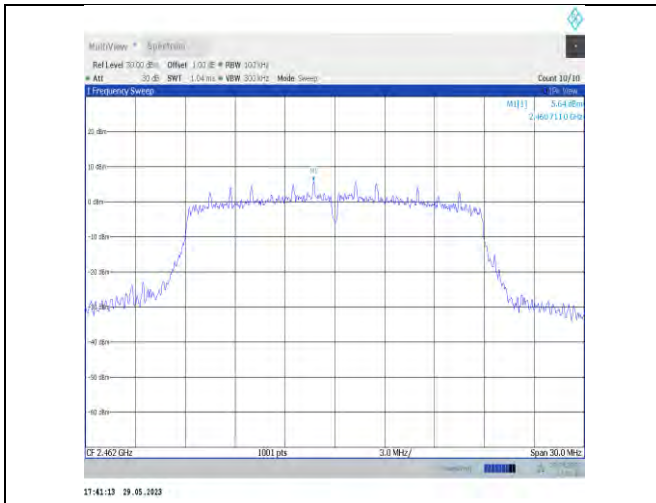


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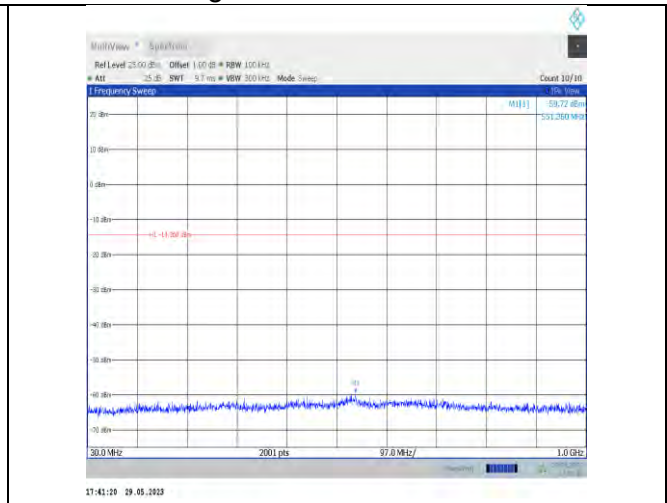


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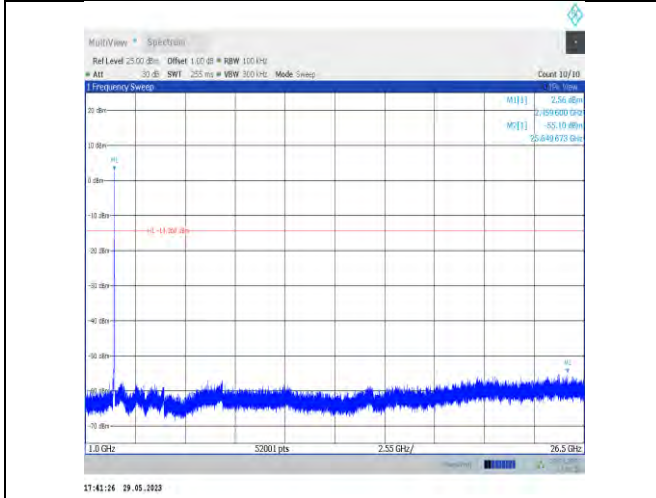
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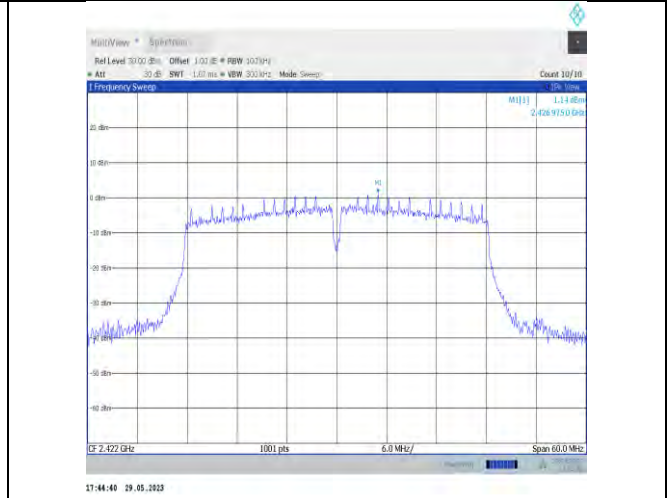
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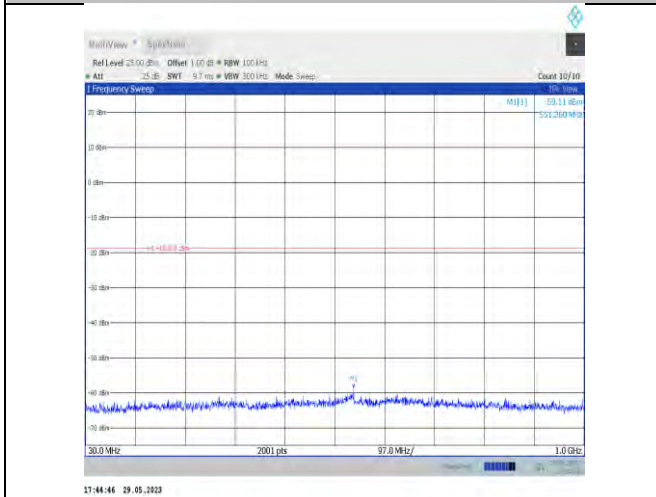
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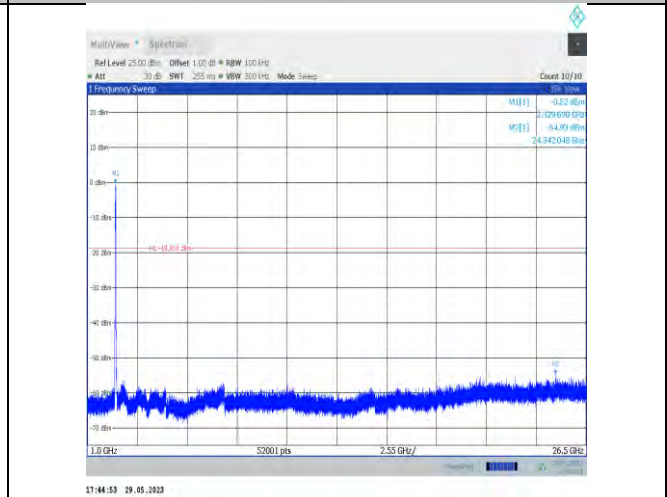
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11VHT40SISO-Ant22-2422-0~Reference



11VHT40SISO-Ant22-2422-30~1000

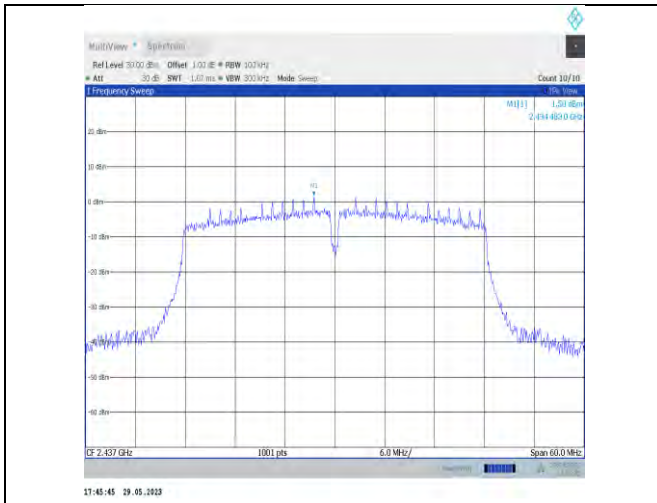


11VHT40SISO-Ant22-2422-1000~26500

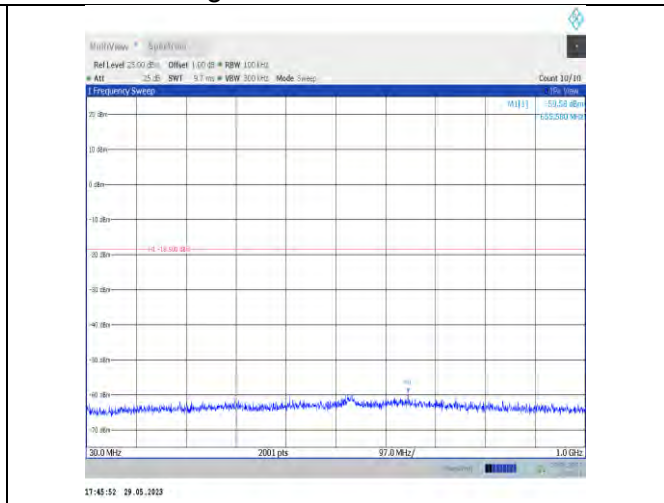


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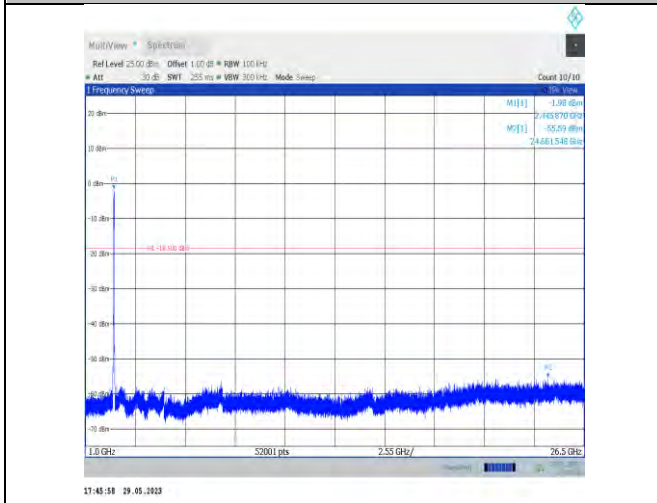
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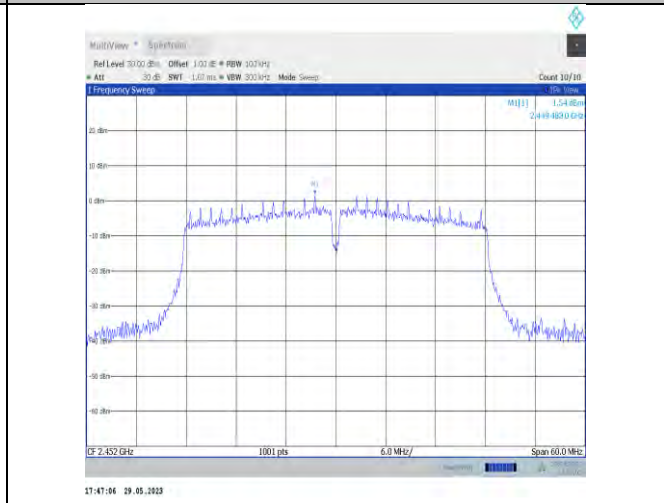
11VHT40SISO-Ant22-2437-0~Reference



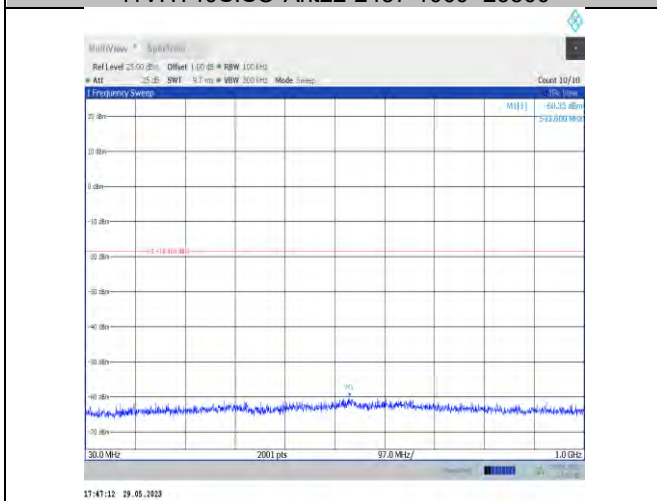
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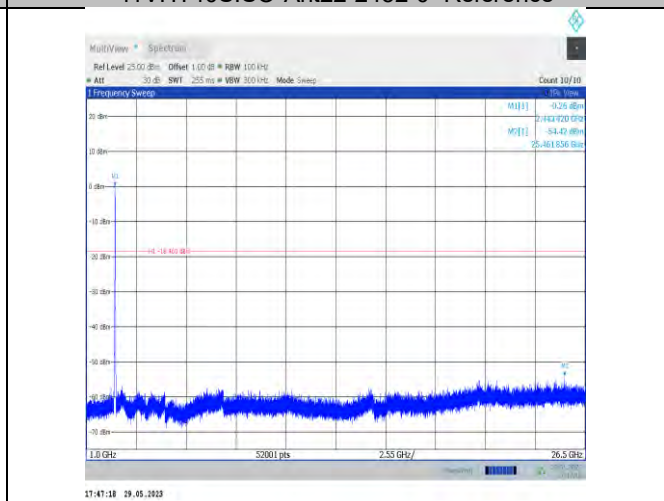
11VHT40SISO-Ant22-2437-1000~26500



11VHT40SISO-Ant22-2452-0~Reference



11VHT40SISO-Ant22-2452-30~1000



11VHT40SISO-Ant22-2452-1000~26500



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## Duty Cycle

### Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11b	Ant22	2412	8.39	8.42	99.64	0.02
11g	Ant22	2412	1.39	1.43	97.20	0.12
11n20SISO	Ant22	2412	1.30	1.34	97.01	0.13
11n40SISO	Ant22	2422	0.64	0.68	94.12	0.26
11VHT20SISO	Ant22	2412	1.31	1.35	97.04	0.13
11VHT40SISO	Ant22	2422	0.65	0.69	94.20	0.26

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.39	8.42	99.64	0.00918	10Hz*
11g	1.39	1.43	97.20	0.71942	0.75KHz
11n20	1.3	1.34	99.08	0.76923	10Hz*
11n40	0.64	0.68	94.12	1.56250	1.6KHz
11VHT20	1.31	1.35	97.04	0.76335	0.82KHz
11VHT40	0.65	0.69	94.20	1.53846	1.6KHz

\*Duty cycle > 98% VBW setting=10Hz



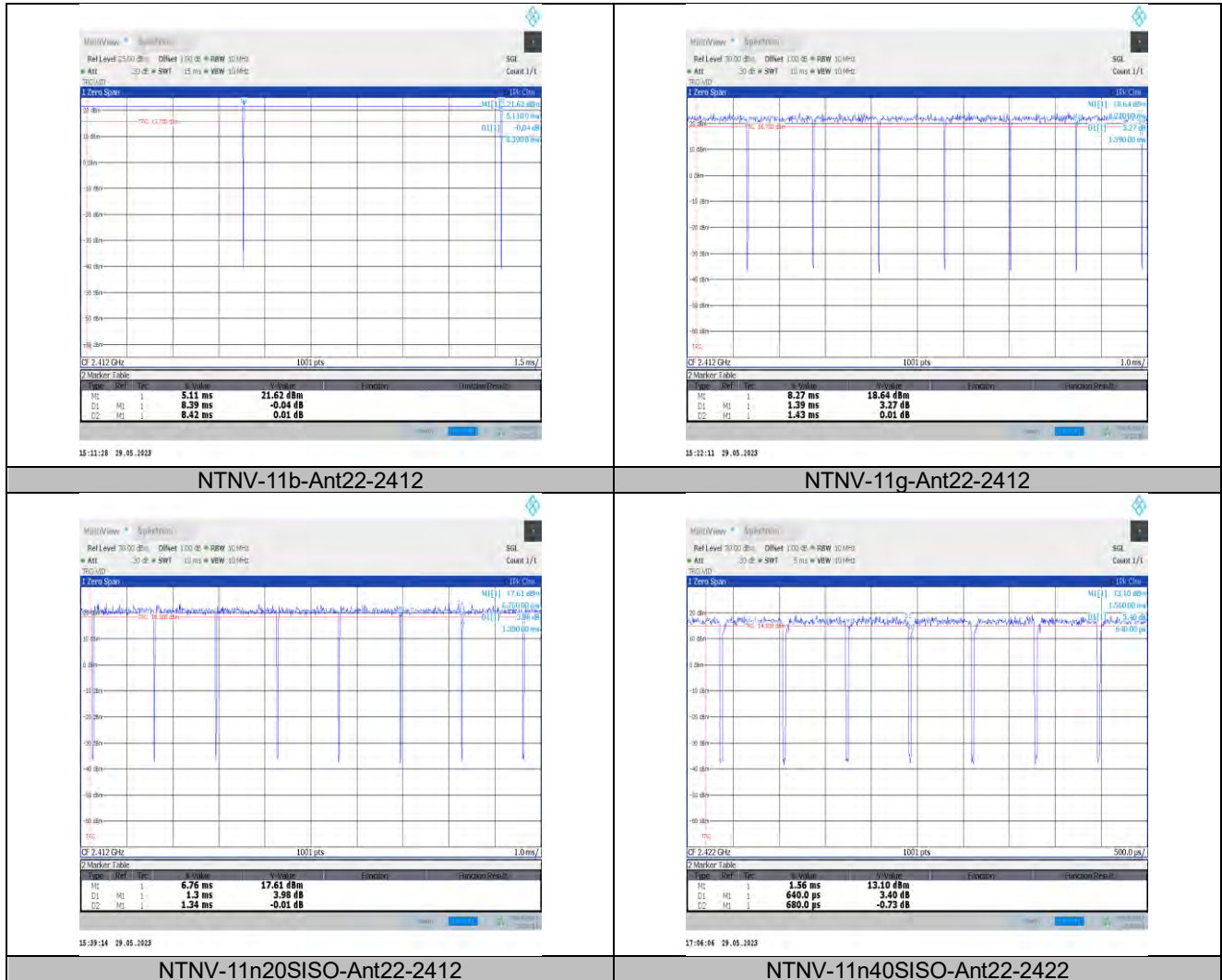
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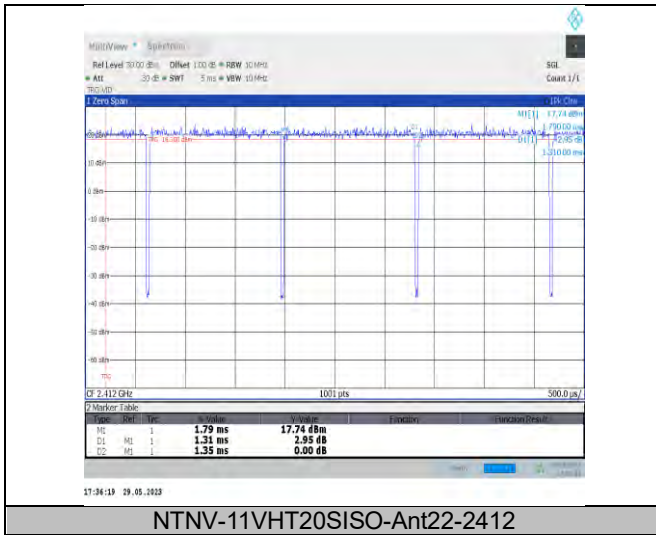
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Test Graphs

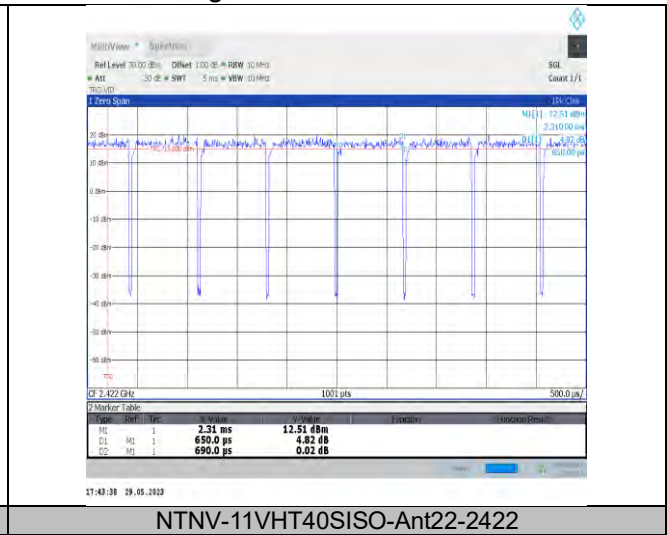


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NTVN-11VHT20SISO-Ant22-2412



NTVN-11VHT40SISO-Ant22-2422



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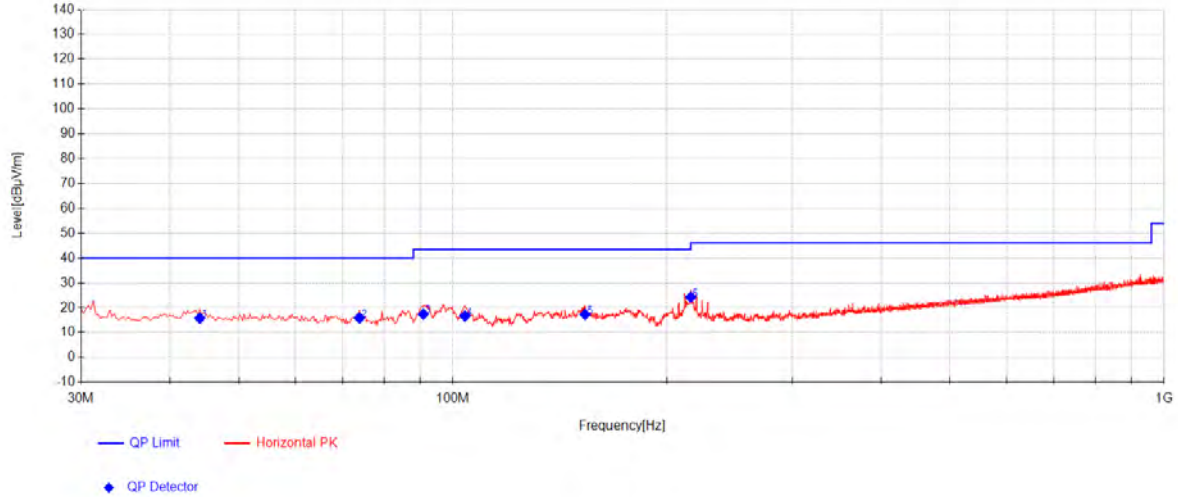
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## Radiated Spurious Emissions

### Radiated emission below 1GHz

#### Worst case Mode: 11n40\_Channel 03



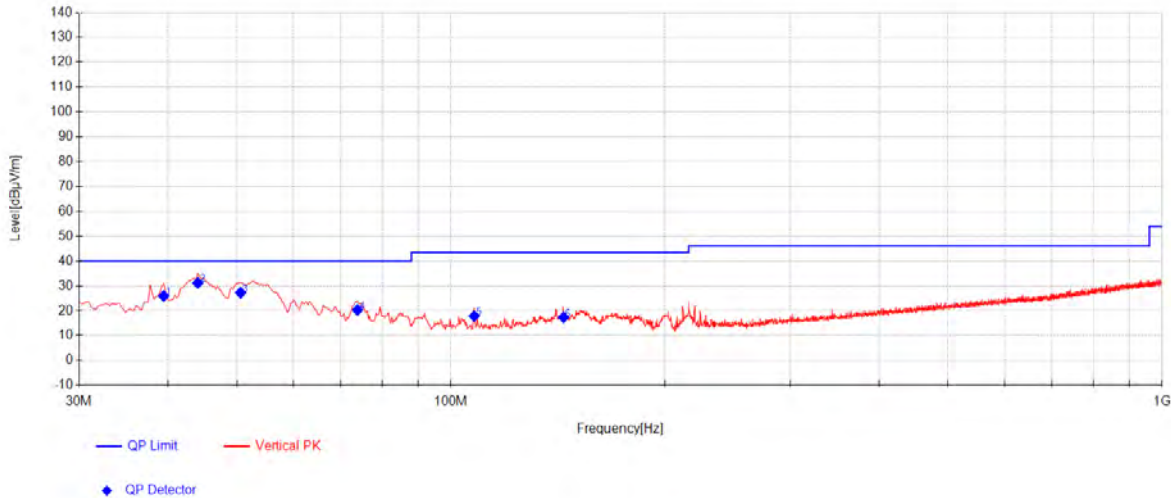
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	30.28	-33.99	19.50	15.79	40.00	24.21	142	161	Horizontal
2	73.8925	33.24	-33.71	16.36	15.89	40.00	24.11	265	272	Horizontal
3	90.8675	36.21	-33.56	14.77	17.42	43.50	26.08	285	328	Horizontal
4	103.9625	34.26	-33.44	15.86	16.67	43.50	26.83	254	117	Horizontal
5	153.4325	32.06	-33.15	18.40	17.31	43.50	26.19	142	261	Horizontal
6	215.9975	40.72	-32.59	16.08	24.21	43.50	19.29	221	21	Horizontal



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### 11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	39.4575	40.36	-34.00	19.57	25.93	40.00	14.07	142	352	Vertical
2	44.065	45.65	-33.99	19.50	31.16	40.00	8.84	265	358	Vertical
3	50.6125	42.04	-33.97	19.18	27.24	40.00	12.76	285	237	Vertical
4	73.8925	37.62	-33.71	16.36	20.27	40.00	19.73	241	1	Vertical
5	107.8425	35.06	-33.41	16.21	17.86	43.50	25.64	142	179	Vertical
6	143.975	32.04	-33.22	18.54	17.36	43.50	26.14	263	247	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:

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

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

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

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

2) All channels have been tested, but only the worst case data displayed in this report.



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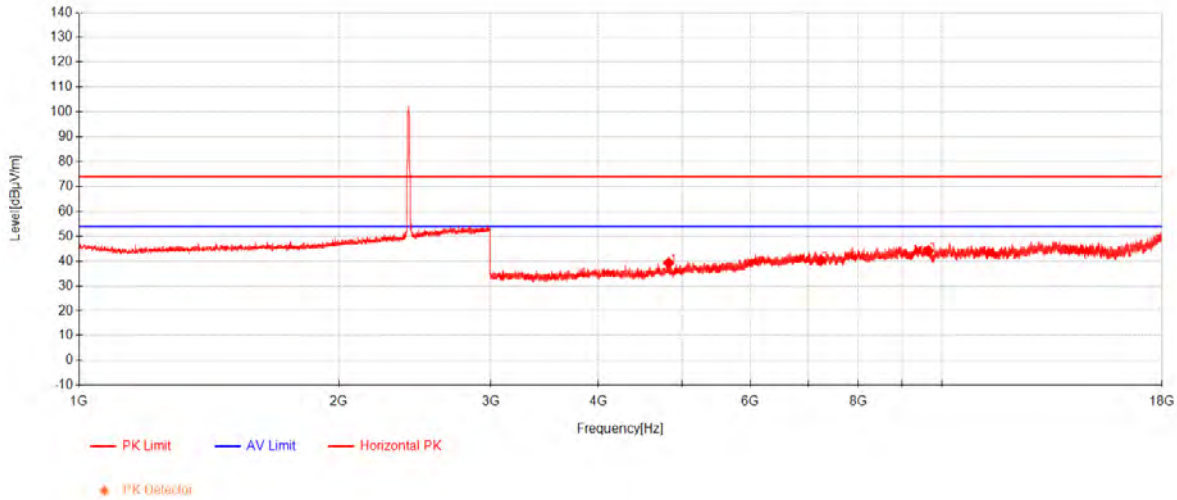
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### Transmitter emission Above 1GHz

#### 802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	51.60	32.18	-44.55	39.23	74.00	34.77	102	343	Horizontal
2	7236	45.96	36.34	-42.08	40.22	74.00	33.78	285	0	Horizontal
3	9648	43.33	38.54	-37.82	44.04	74.00	29.96	241	56	Horizontal

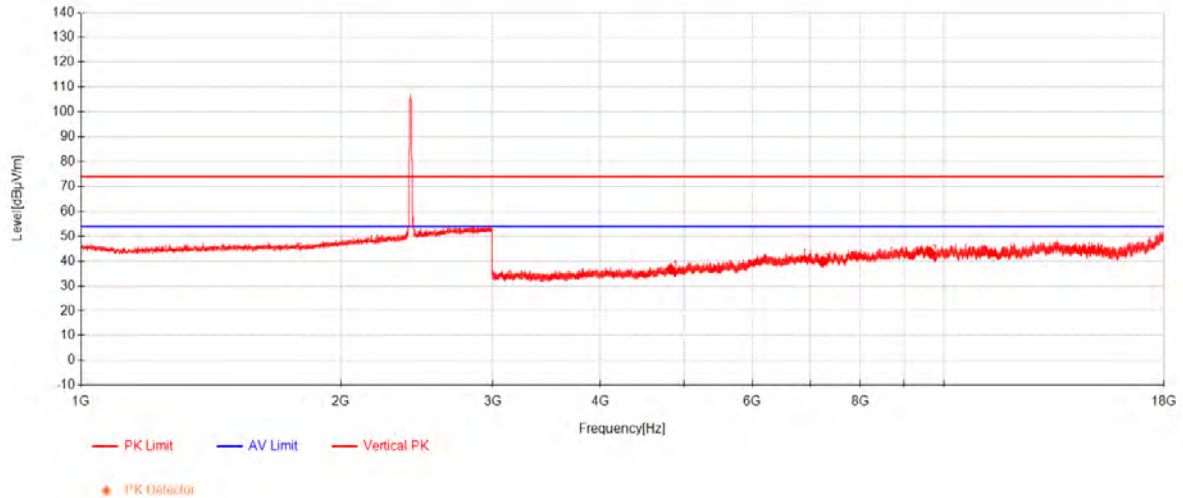


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802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.02	32.18	-44.55	36.65	74.00	37.35	296	200	Vertical
2	7236	45.52	36.34	-42.08	39.78	74.00	34.22	254	153	Vertical
3	9648	42.61	38.54	-37.82	43.32	74.00	30.68	174	0	Vertical

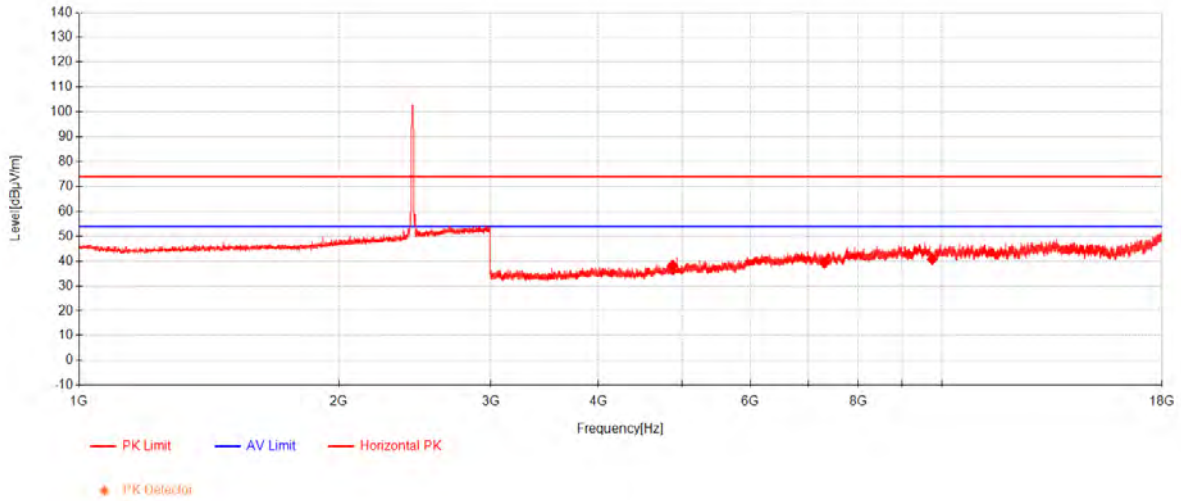


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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.60	32.30	-44.77	38.13	74.00	35.87	201	0	Horizontal
2	7311	44.67	36.39	-41.78	39.27	74.00	34.73	174	254	Horizontal
3	9748	39.74	38.53	-37.51	40.75	74.00	33.25	145	129	Horizontal

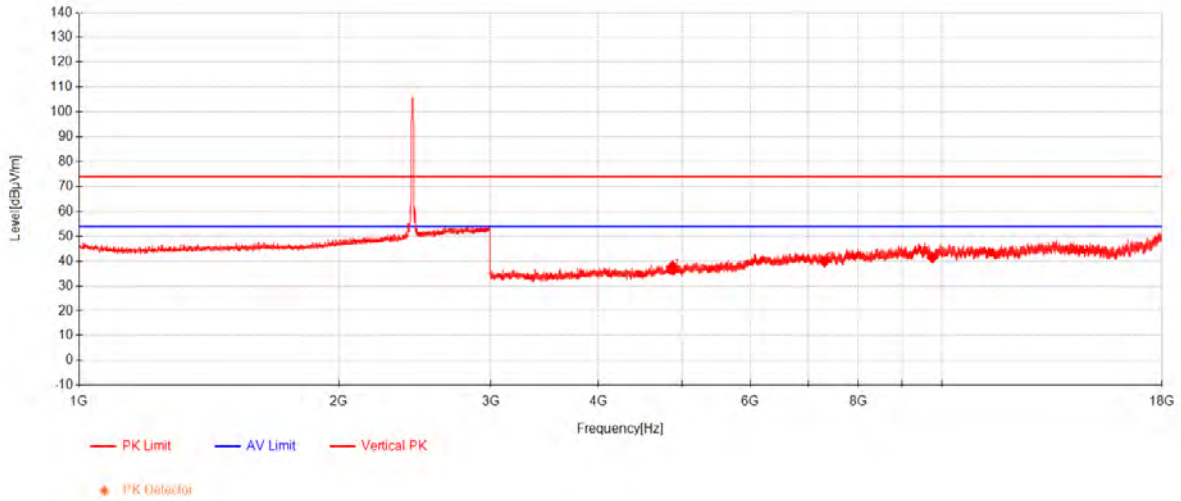


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802.11b\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.26	32.30	-44.77	37.79	74.00	36.21	285	357	Vertical
2	7311	45.24	36.39	-41.78	39.84	74.00	34.16	274	257	Vertical
3	9748	40.40	38.53	-37.51	41.41	74.00	32.59	142	327	Vertical

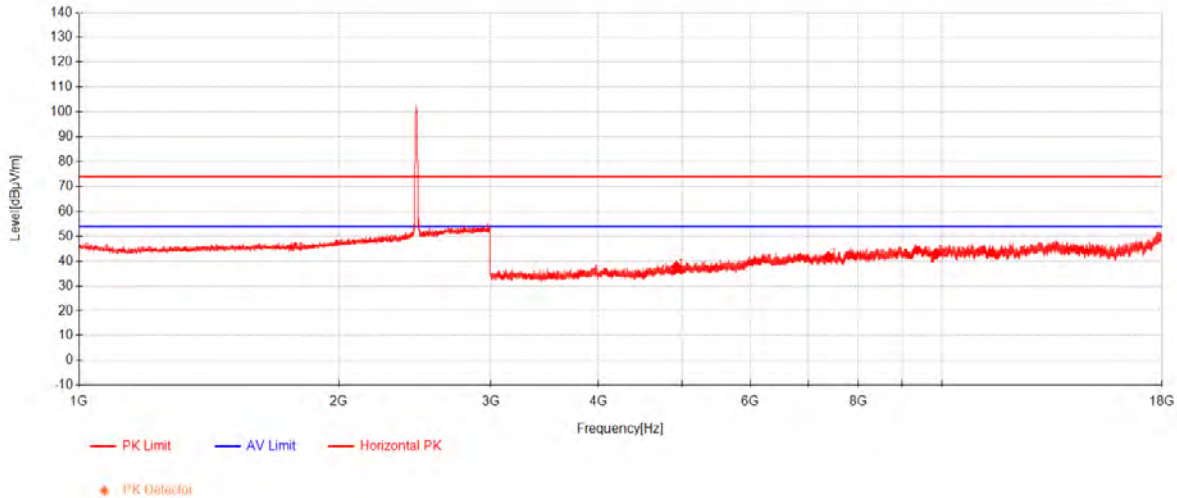


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.09	32.42	-44.89	37.61	74.00	36.39	285	327	Horizontal
2	7386	47.16	36.43	-41.95	41.64	74.00	32.36	142	12	Horizontal
3	9848	41.82	38.52	-37.38	42.96	74.00	31.04	263	357	Horizontal

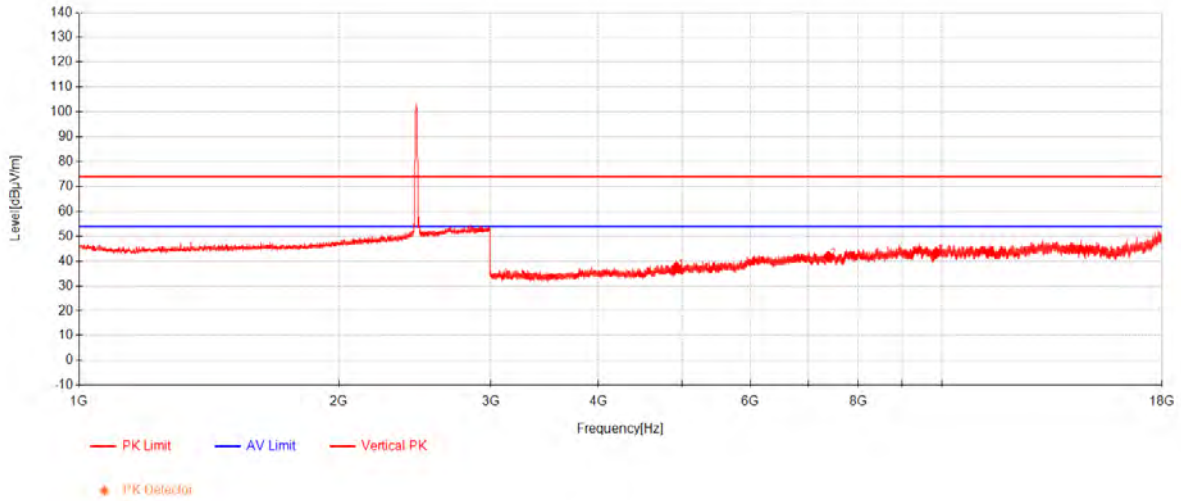


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	49.94	32.42	-44.89	37.46	74.00	36.54	174	357	Vertical
2	7386	47.32	36.43	-41.95	41.80	74.00	32.20	142	237	Vertical
3	9848	42.17	38.52	-37.38	43.31	74.00	30.69	296	166	Vertical



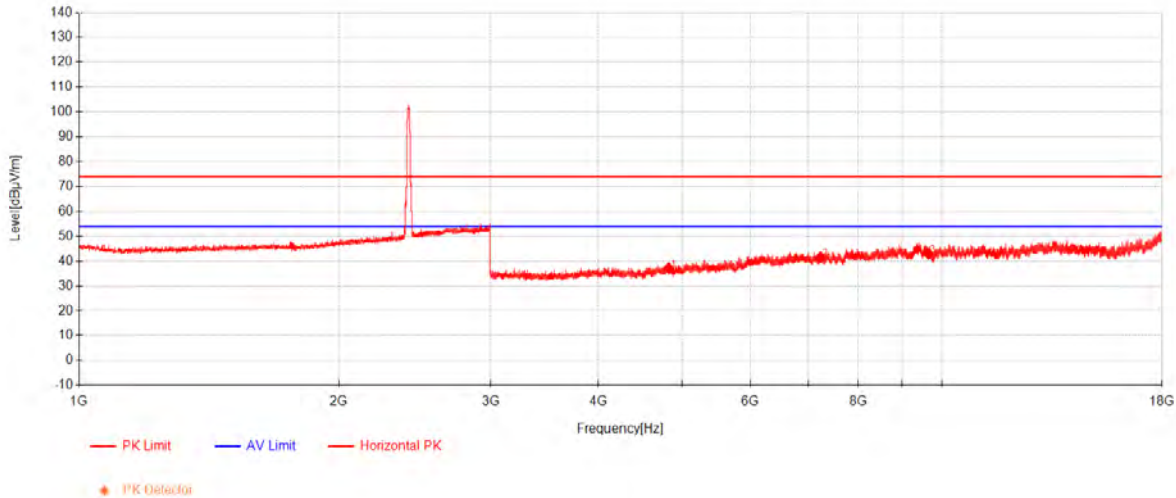
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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.48	32.18	-44.55	37.11	74.00	36.89	265	166	Horizontal
2	7236	47.32	36.34	-42.08	41.58	74.00	32.42	284	22	Horizontal
3	9648	42.27	38.54	-37.82	42.98	74.00	31.02	174	129	Horizontal

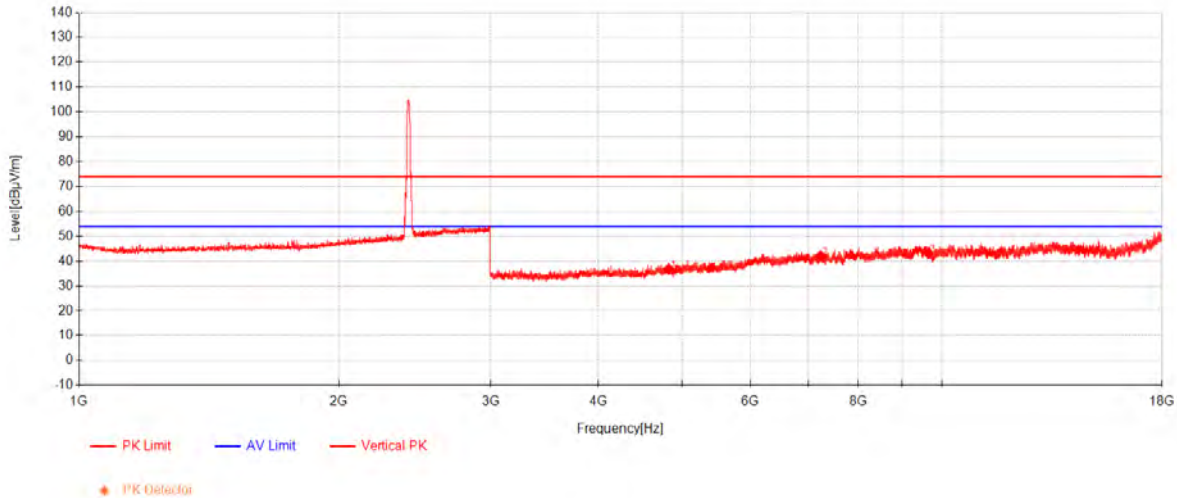


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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.07	32.18	-44.55	36.70	74.00	37.30	285	200	Vertical
2	7236	47.75	36.34	-42.08	42.01	74.00	31.99	241	219	Vertical
3	9648	42.48	38.54	-37.82	43.19	74.00	30.81	175	182	Vertical



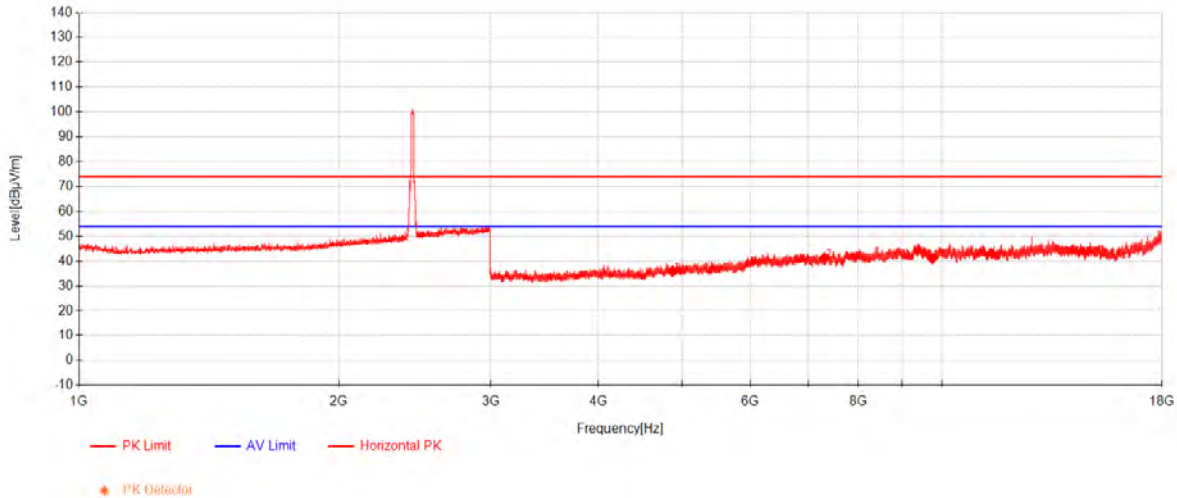
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802.11g\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.36	32.30	-44.77	35.89	74.00	38.11	254	325	Horizontal
2	7311	46.59	36.39	-41.78	41.19	74.00	32.81	142	59	Horizontal
3	9748	40.04	38.53	-37.51	41.05	74.00	32.95	253	3	Horizontal

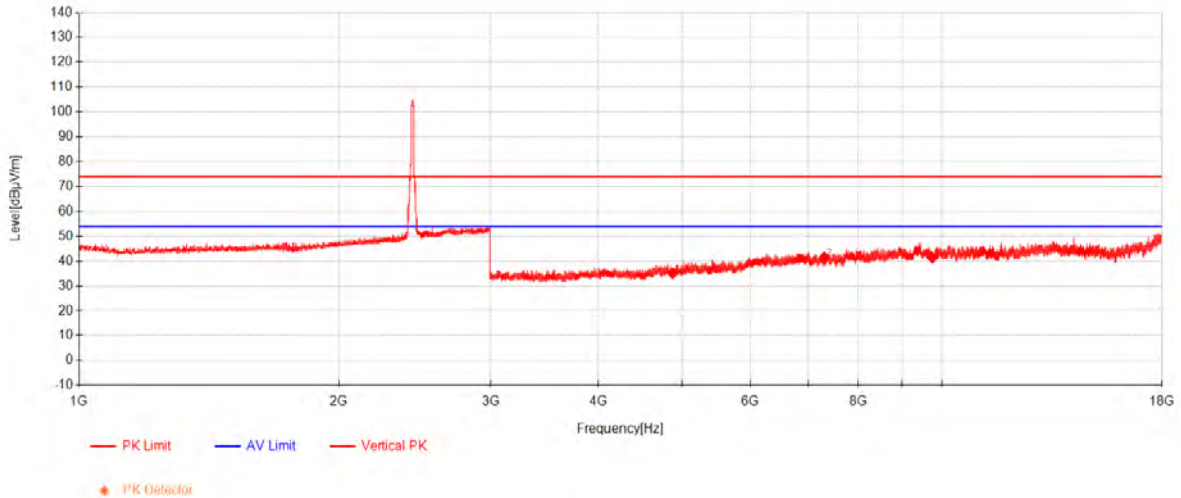


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802.11g\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.53	32.30	-44.77	35.06	74.00	38.94	285	219	Vertical
2	7311	46.89	36.39	-41.78	41.49	74.00	32.51	241	1	Vertical
3	9748	40.34	38.53	-37.51	41.35	74.00	32.65	142	326	Vertical

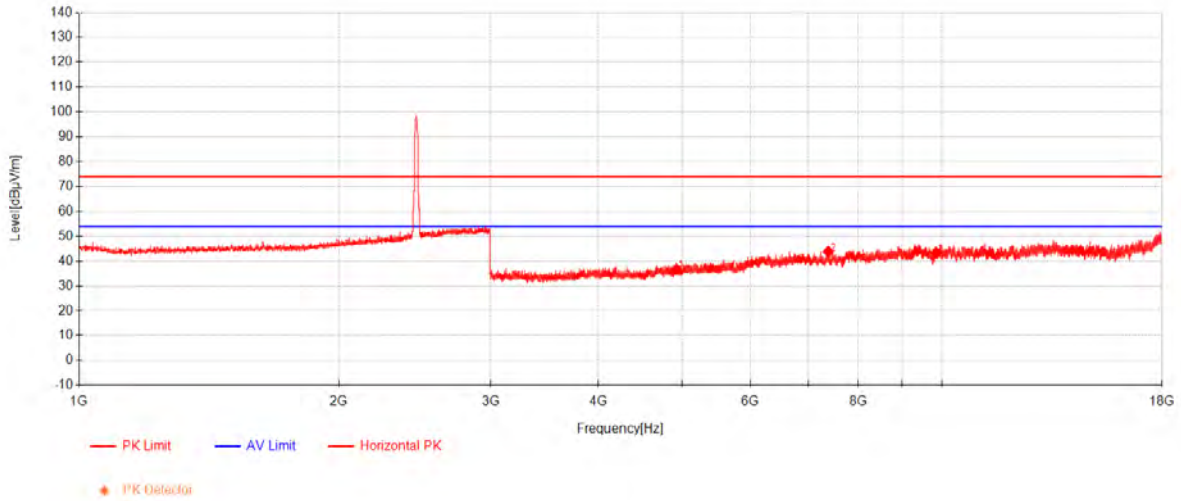


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802.11g\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	49.12	32.42	-44.89	36.64	74.00	37.36	296	111	Horizontal
2	7386	49.31	36.43	-41.95	43.79	74.00	30.21	284	0	Horizontal
3	9848	42.28	38.52	-37.38	43.42	74.00	30.58	142	200	Horizontal

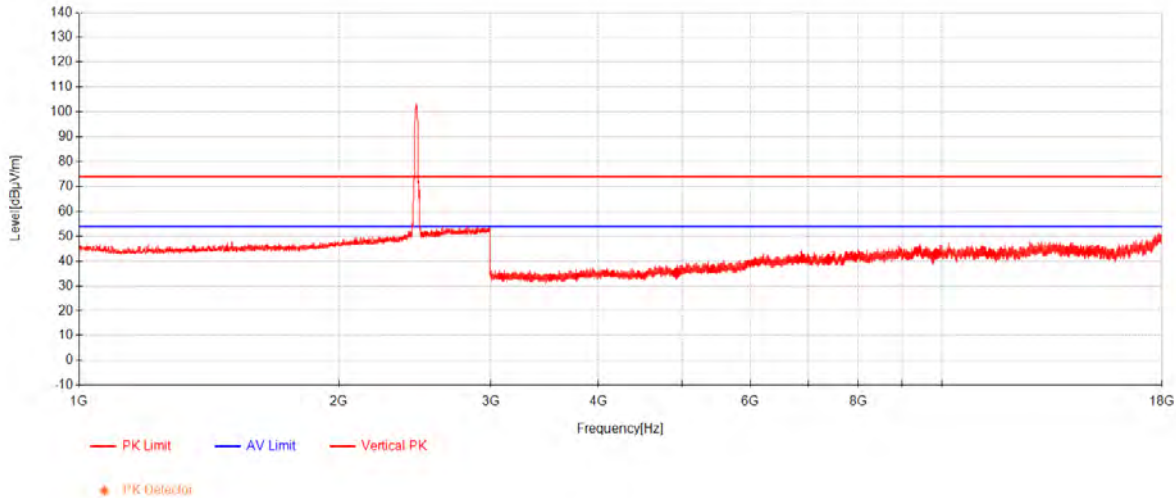


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802.11g\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	47.51	32.42	-44.89	35.03	74.00	38.97	285	289	Vertical
2	7386	46.08	36.43	-41.95	40.56	74.00	33.44	241	111	Vertical
3	9848	41.88	38.52	-37.38	43.02	74.00	30.98	175	357	Vertical

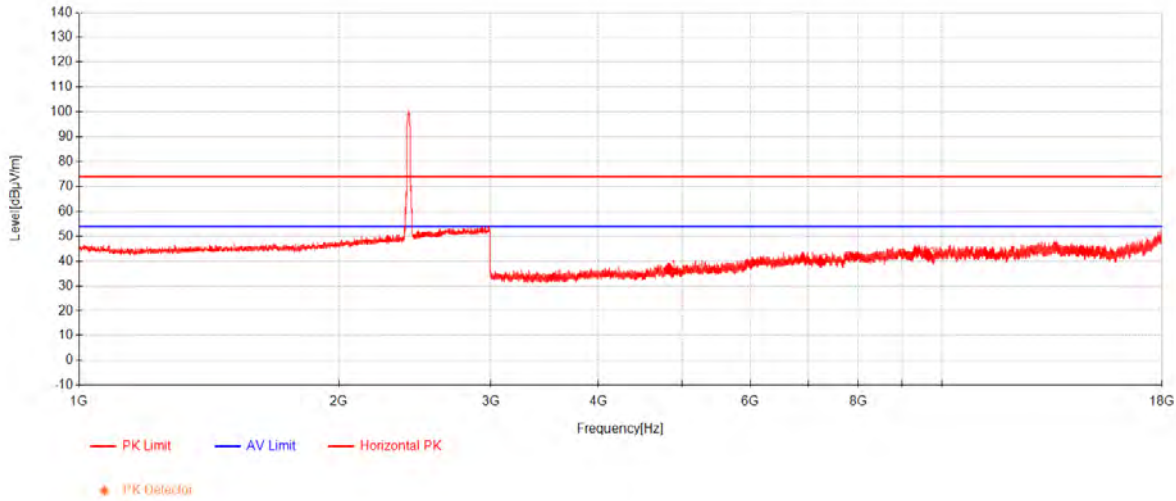


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802.11n20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.22	32.18	-44.55	36.85	74.00	37.15	285	254	Horizontal
2	7236	45.42	36.34	-42.08	39.68	74.00	34.32	241	254	Horizontal
3	9648	41.24	38.54	-37.82	41.95	74.00	32.05	156	217	Horizontal

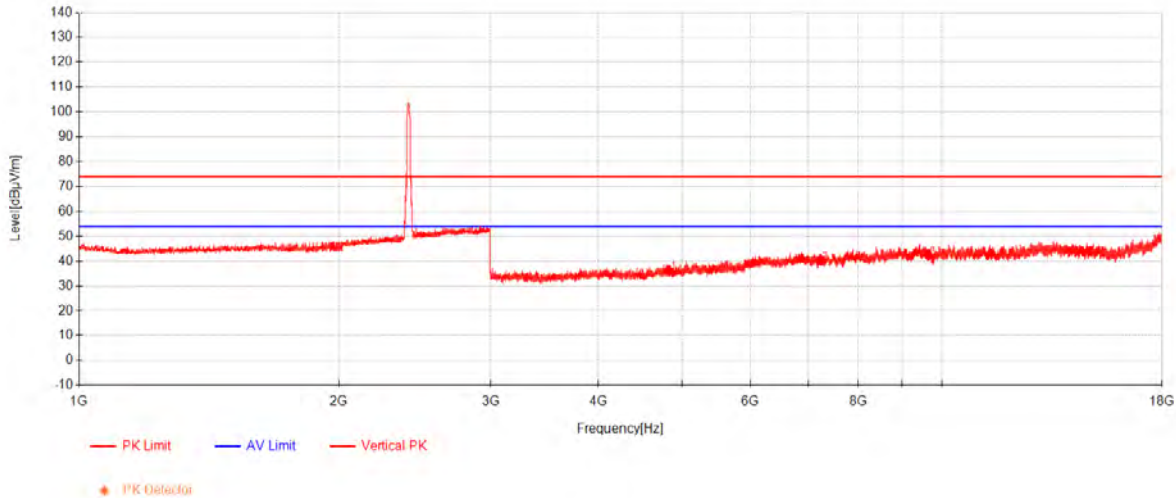


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	48.61	32.18	-44.55	36.24	74.00	37.76	296	58	Vertical
2	7236	46.15	36.34	-42.08	40.41	74.00	33.59	265	94	Vertical
3	9648	41.60	38.54	-37.82	42.31	74.00	31.69	274	0	Vertical

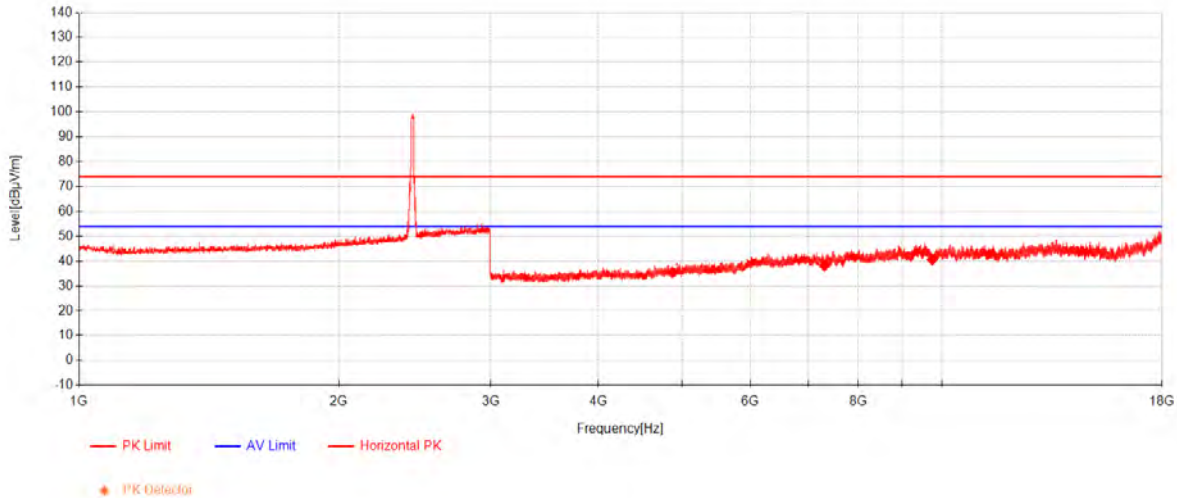


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802.11n20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.93	32.30	-44.77	35.46	74.00	38.54	174	129	Horizontal
2	7311	43.56	36.39	-41.78	38.16	74.00	35.84	142	0	Horizontal
3	9748	39.57	38.53	-37.51	40.58	74.00	33.42	268	3	Horizontal

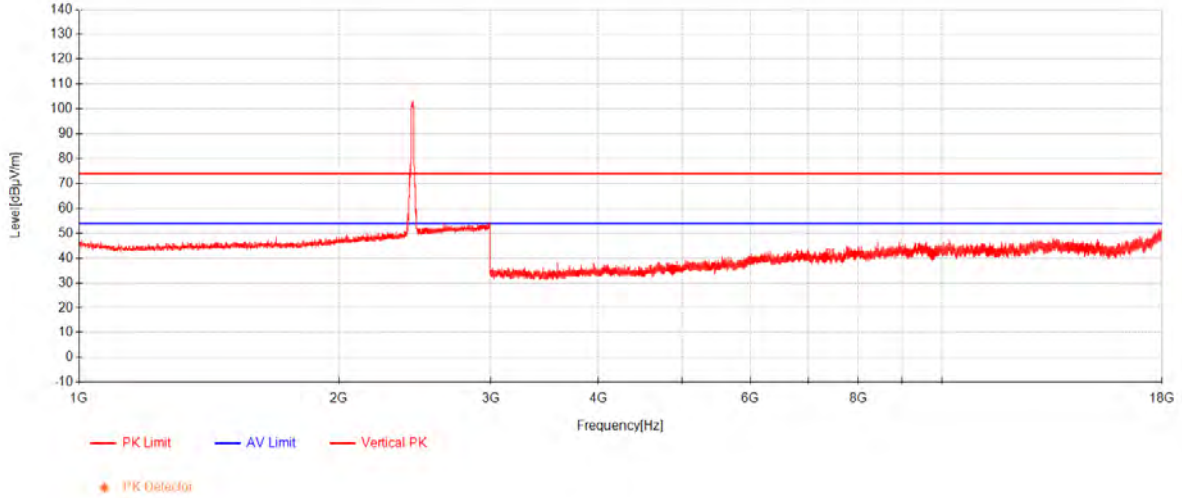


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802.11n20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.86	32.30	-44.77	35.39	74.00	38.61	285	1	Vertical
2	7311	45.58	36.39	-41.78	40.18	74.00	33.82	265	237	Vertical
3	9748	40.58	38.53	-37.51	41.59	74.00	32.41	274	182	Vertical



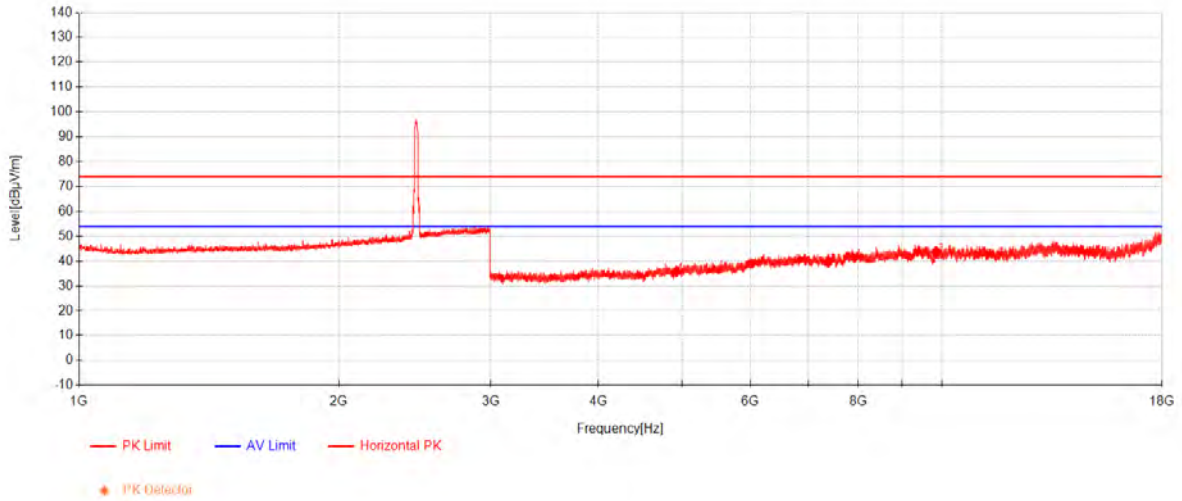
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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.26	32.42	-44.89	35.78	74.00	38.22	204	39	Horizontal
2	7386	45.22	36.43	-41.95	39.70	74.00	34.30	174	255	Horizontal
3	9848	42.59	38.52	-37.38	43.73	74.00	30.27	146	220	Horizontal

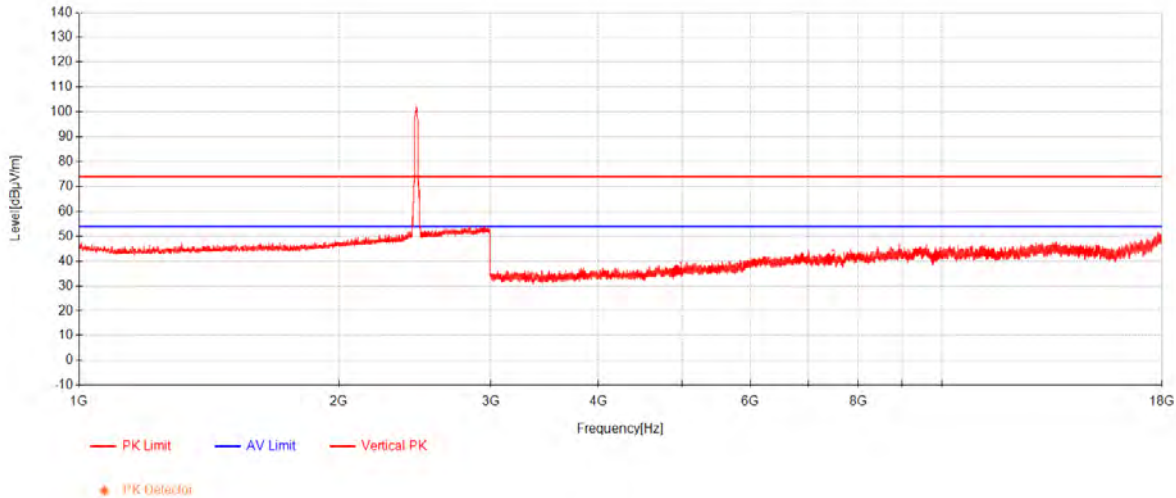


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.79	32.42	-44.89	36.31	74.00	37.69	285	95	Vertical
2	7386	46.36	36.43	-41.95	40.84	74.00	33.16	241	43	Vertical
3	9848	40.89	38.52	-37.38	42.03	74.00	31.97	174	221	Vertical

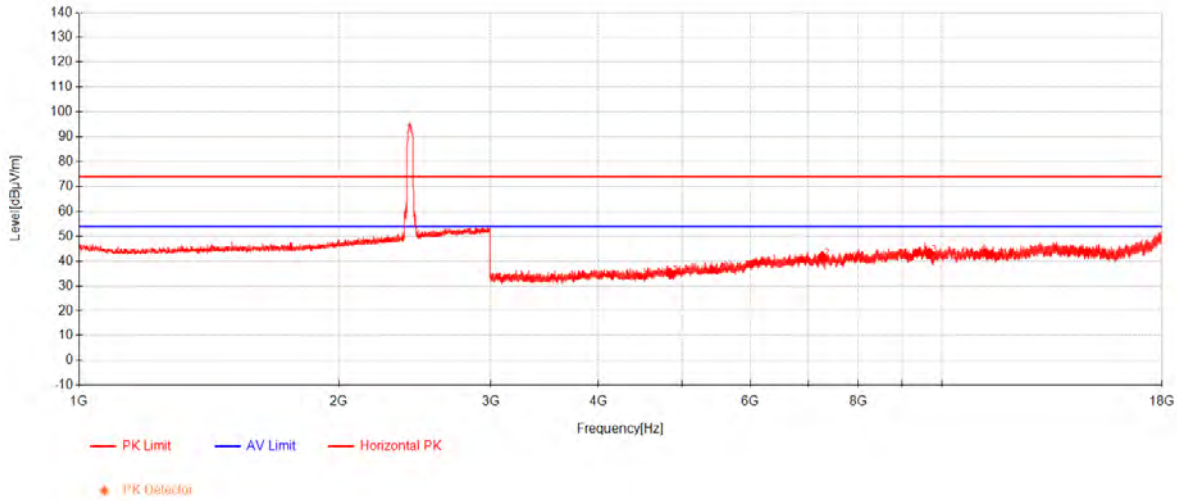


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	47.29	32.23	-44.63	34.88	74.00	39.12	296	289	Horizontal
2	7266	47.25	36.36	-41.93	41.68	74.00	32.32	274	92	Horizontal
3	9688	41.99	38.53	-37.59	42.93	74.00	31.07	142	326	Horizontal

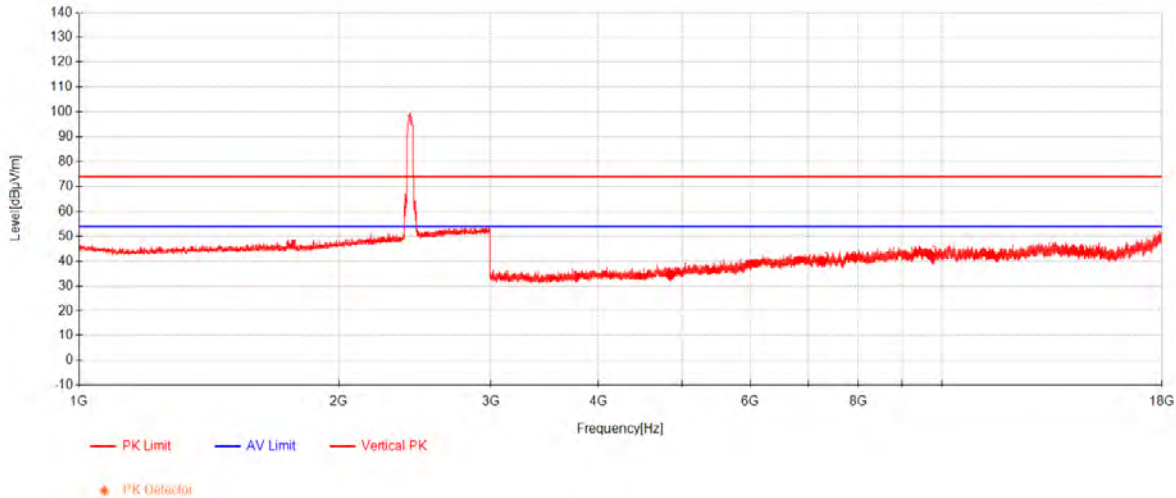


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	46.67	32.23	-44.63	34.26	74.00	39.74	175	237	Vertical
2	7266	45.56	36.36	-41.93	39.99	74.00	34.01	265	202	Vertical
3	9688	41.64	38.53	-37.59	42.58	74.00	31.42	284	237	Vertical



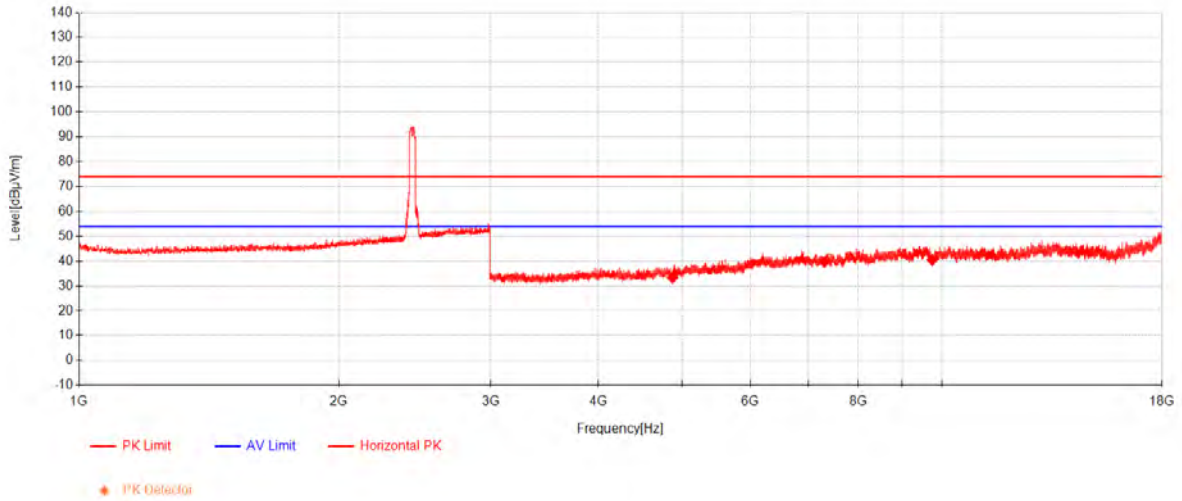
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802.11n40\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	45.79	32.30	-44.77	33.32	74.00	40.68	296	1	Horizontal
2	7311	45.05	36.39	-41.78	39.65	74.00	34.35	284	290	Horizontal
3	9748	39.46	38.53	-37.51	40.47	74.00	33.53	175	1	Horizontal

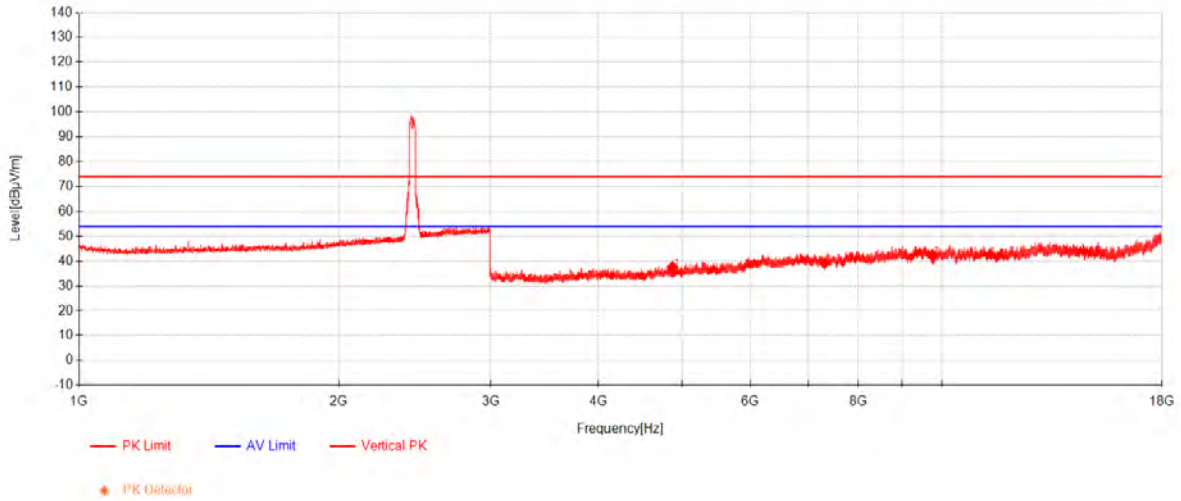


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802.11n40\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.08	32.30	-44.77	37.61	74.00	36.39	285	21	Vertical
2	7311	44.49	36.39	-41.78	39.09	74.00	34.91	241	273	Vertical
3	9748	41.44	38.53	-37.51	42.45	74.00	31.55	146	1	Vertical

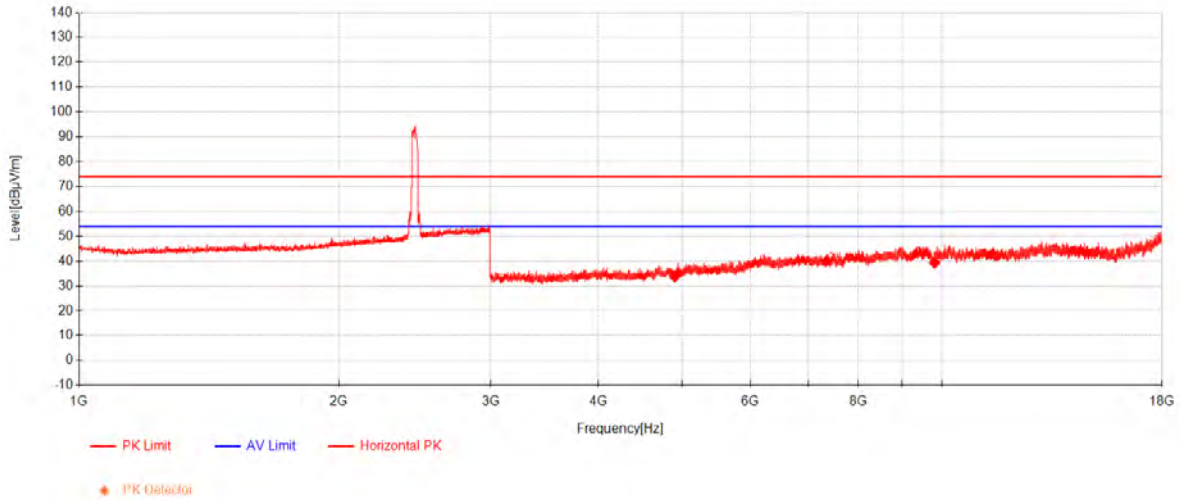


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802.11n40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	46.23	32.37	-44.88	33.72	74.00	40.28	296	256	Horizontal
2	7356	45.59	36.41	-41.88	40.12	74.00	33.88	287	274	Horizontal
3	9808	38.26	38.52	-37.48	39.30	74.00	34.70	142	148	Horizontal

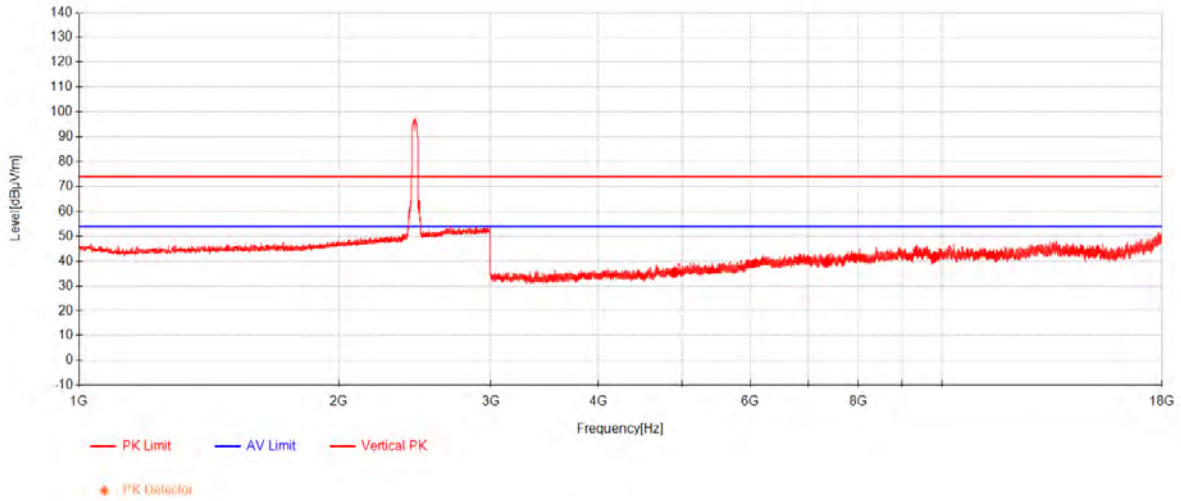


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	48.04	32.37	-44.88	35.53	74.00	38.47	285	3	Vertical
2	7356	45.05	36.41	-41.88	39.58	74.00	34.42	241	0	Vertical
3	9808	40.62	38.52	-37.48	41.66	74.00	32.34	175	39	Vertical



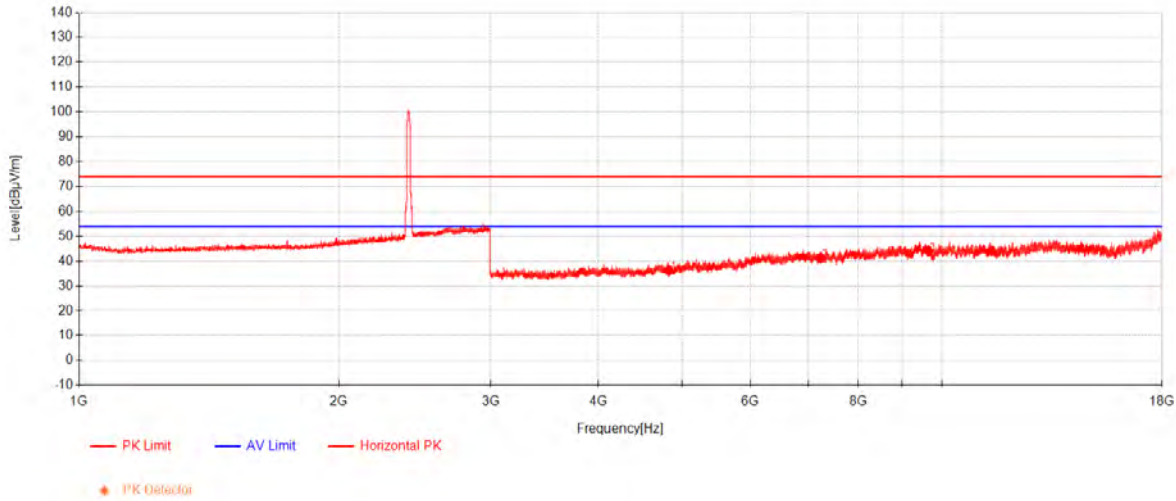
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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	48.54	32.18	-44.55	36.17	54.00	17.83	296	0	Horizontal
2	7236	47.02	36.34	-42.08	41.28	54.00	12.72	284	4	Horizontal
3	9648	43.37	38.54	-37.82	44.08	54.00	9.92	142	202	Horizontal

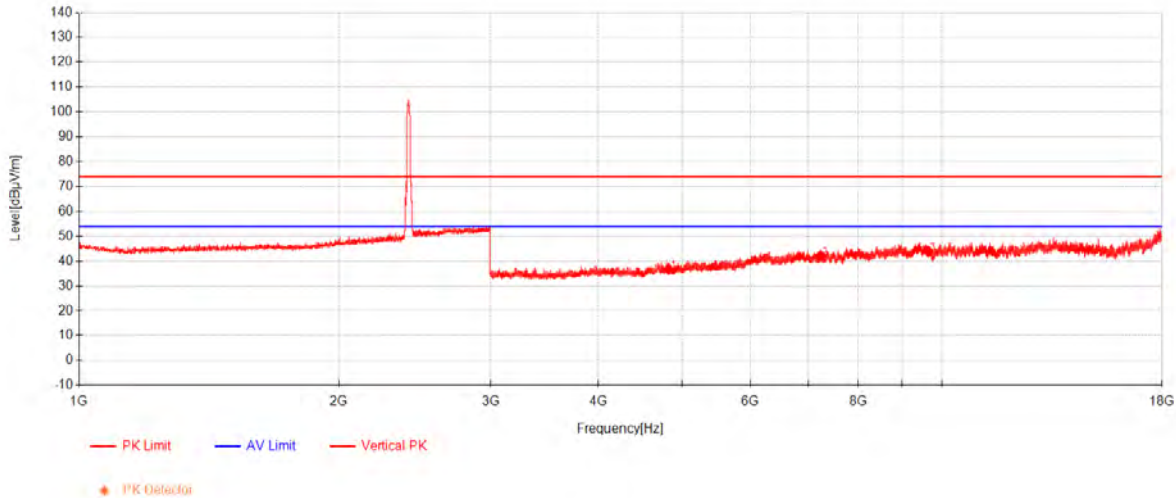


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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.09	32.18	-44.55	36.72	54.00	17.28	196	0	Vertical
2	7236	47.84	36.34	-42.08	42.10	54.00	11.90	284	1	Vertical
3	9648	43.14	38.54	-37.82	43.85	54.00	10.15	172	218	Vertical

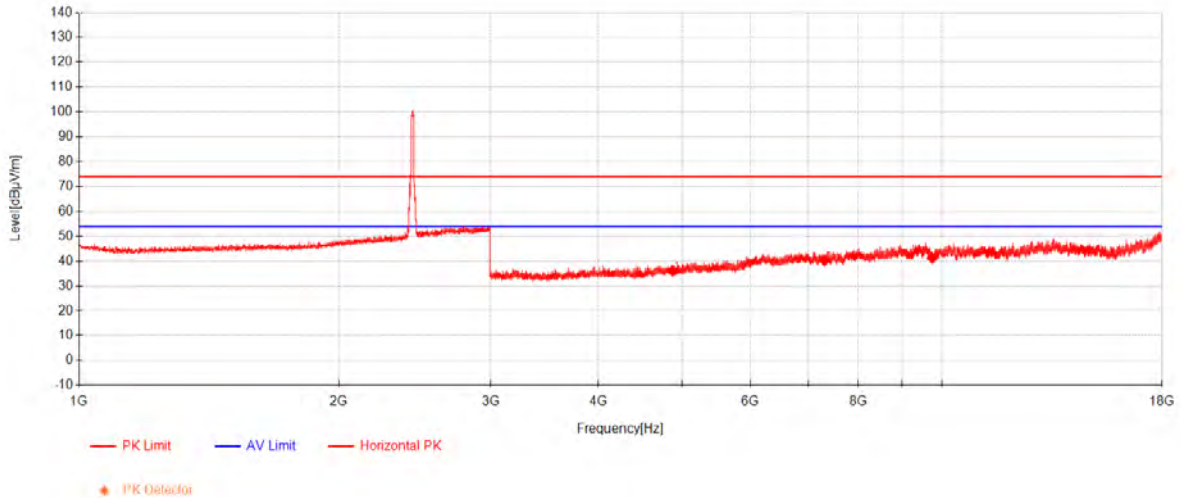


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802.11VHT 20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.60	32.30	-44.77	36.13	74.00	37.87	185	1	Horizontal
2	7311	45.64	36.39	-41.78	40.24	74.00	33.76	265	236	Horizontal
3	9748	40.20	38.53	-37.51	41.21	74.00	32.79	271	0	Horizontal

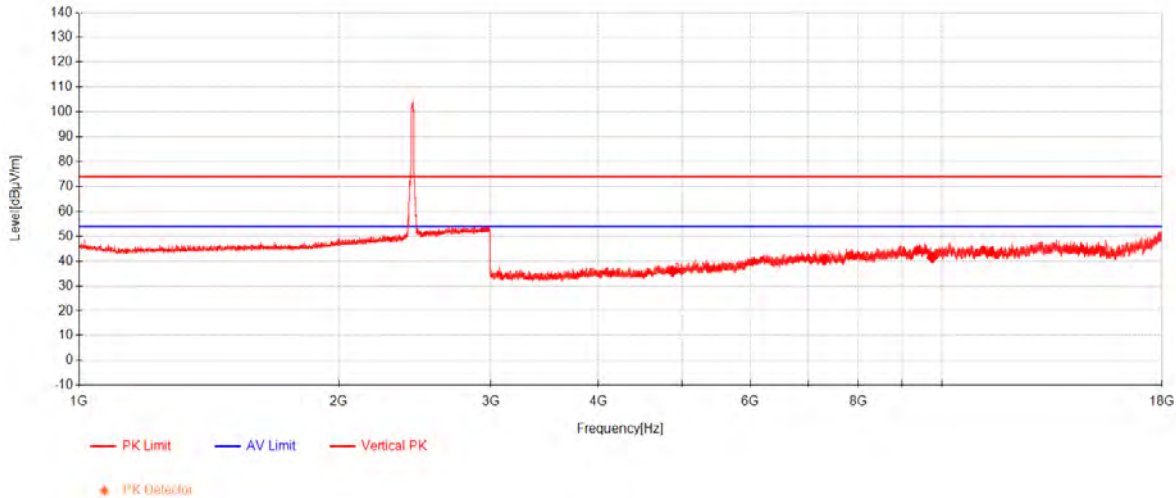


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802.11VHT 20\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.30	32.30	-44.77	35.83	74.00	38.17	196	0	Vertical
2	7311	45.96	36.39	-41.78	40.56	74.00	33.44	265	326	Vertical
3	9748	40.37	38.53	-37.51	41.38	74.00	32.62	274	170	Vertical

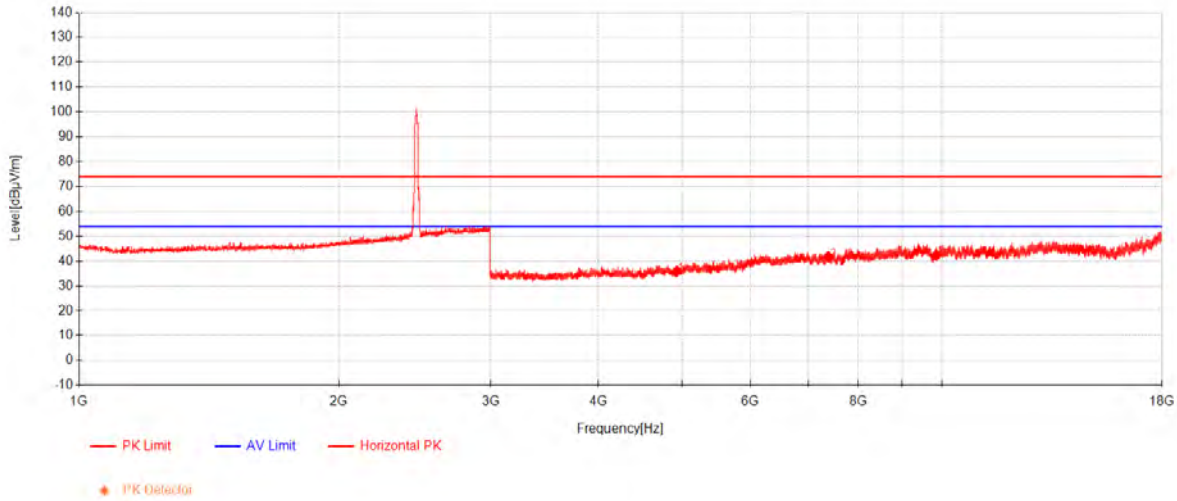


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802.11VHT 20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.22	32.42	-44.89	35.74	74.00	38.26	296	326	Horizontal
2	7386	47.24	36.43	-41.95	41.72	74.00	32.28	274	130	Horizontal
3	9848	41.14	38.52	-37.38	42.28	74.00	31.72	142	0	Horizontal

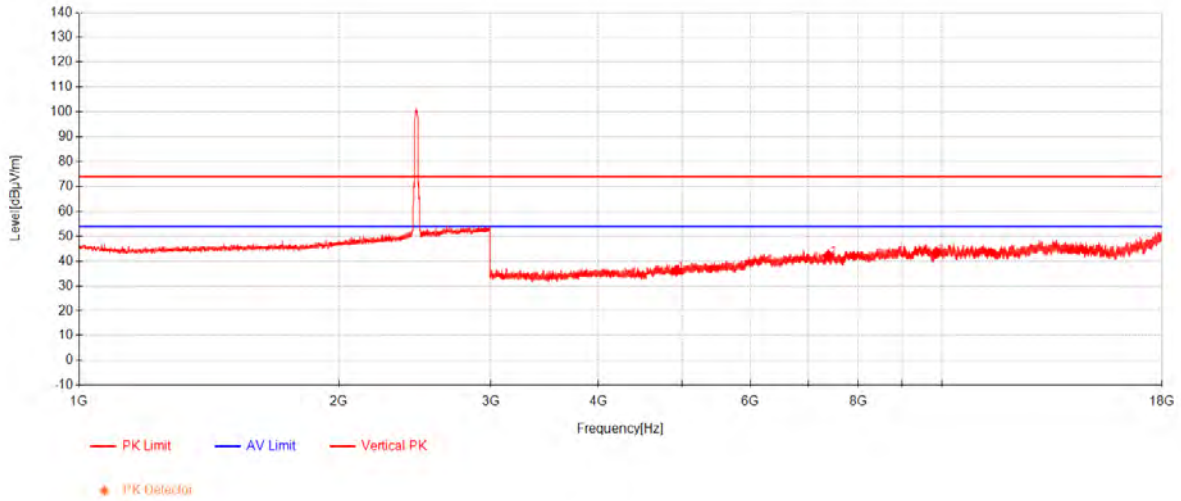


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802.11VHT 20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.66	32.42	-44.89	36.18	74.00	37.82	185	111	Vertical
2	7386	47.67	36.43	-41.95	42.15	74.00	31.85	265	182	Vertical
3	9848	42.26	38.52	-37.38	43.40	74.00	30.60	274	0	Vertical

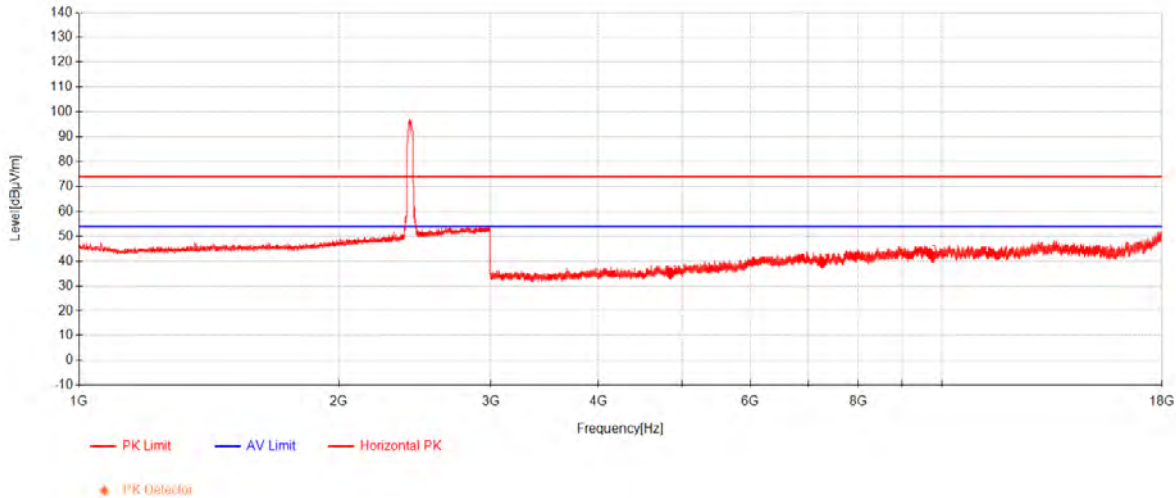


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	47.37	32.23	-44.63	34.96	74.00	39.04	196	236	Horizontal
2	7266	44.91	36.36	-41.93	39.34	74.00	34.66	254	78	Horizontal
3	9688	42.04	38.53	-37.59	42.98	74.00	31.02	175	240	Horizontal

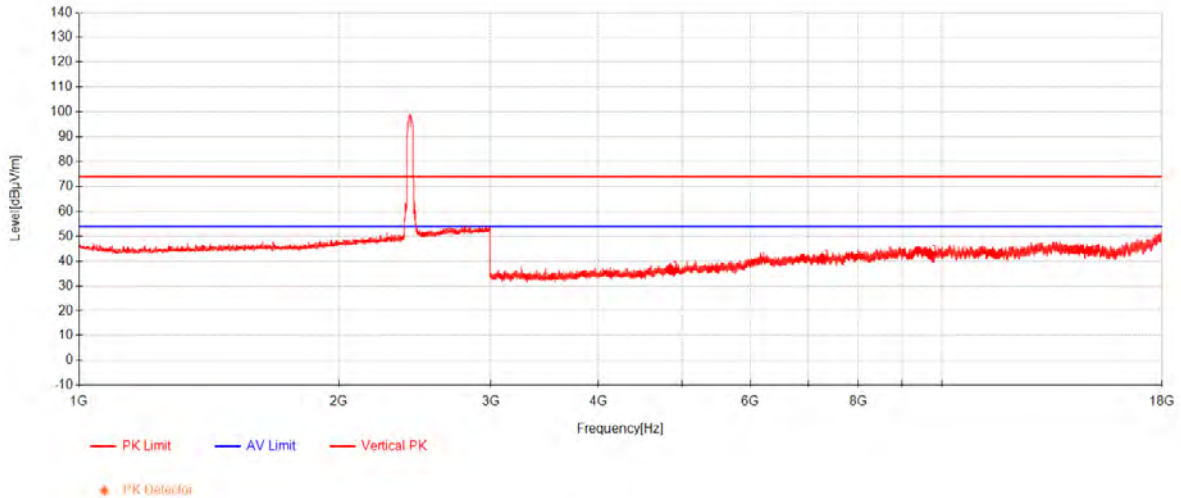


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	49.07	32.23	-44.63	36.66	74.00	37.34	296	0	Vertical
2	7266	46.58	36.36	-41.93	41.01	74.00	32.99	285	218	Vertical
3	9688	41.88	38.53	-37.59	42.82	74.00	31.18	241	326	Vertical



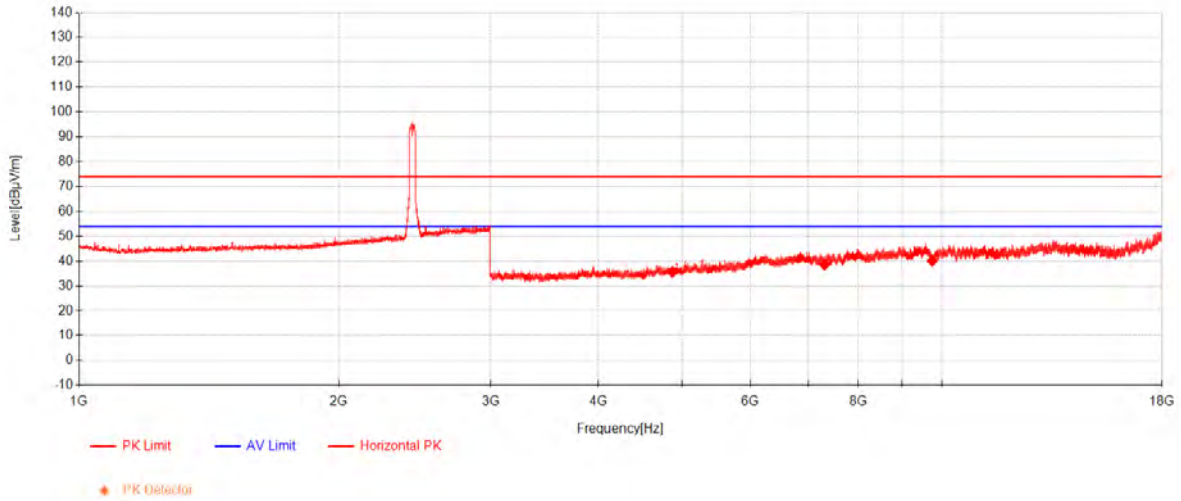
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802.11VHT 40\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.07	32.30	-44.77	35.60	74.00	38.40	296	181	Horizontal
2	7311	43.99	36.39	-41.78	38.59	74.00	35.41	284	163	Horizontal
3	9748	39.08	38.53	-37.51	40.09	74.00	33.91	142	200	Horizontal

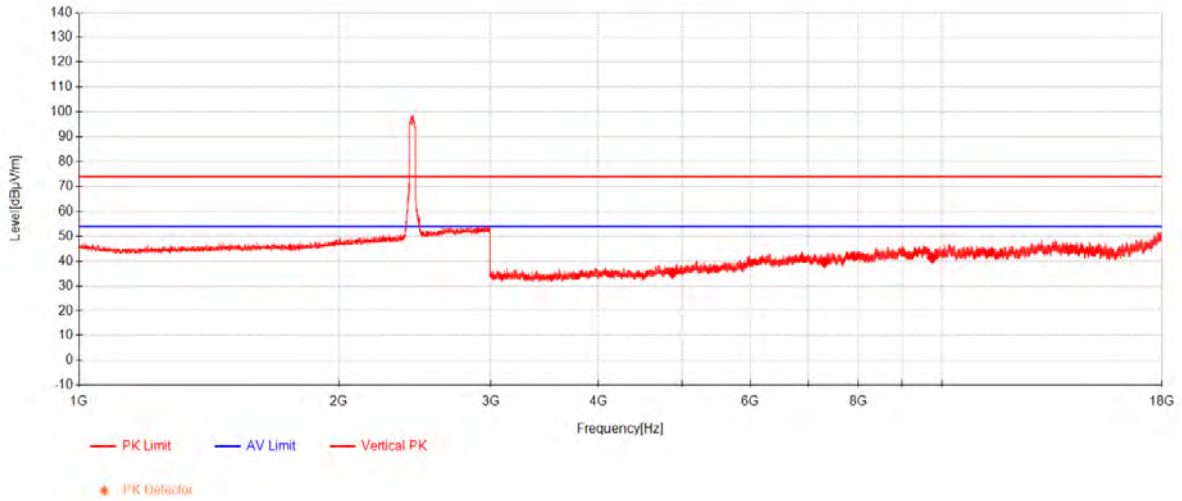


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802.11VHT 40\_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.67	32.30	-44.77	35.20	74.00	38.80	296	357	Vertical
2	7311	44.94	36.39	-41.78	39.54	74.00	34.46	284	218	Vertical
3	9748	40.28	38.53	-37.51	41.29	74.00	32.71	172	39	Vertical

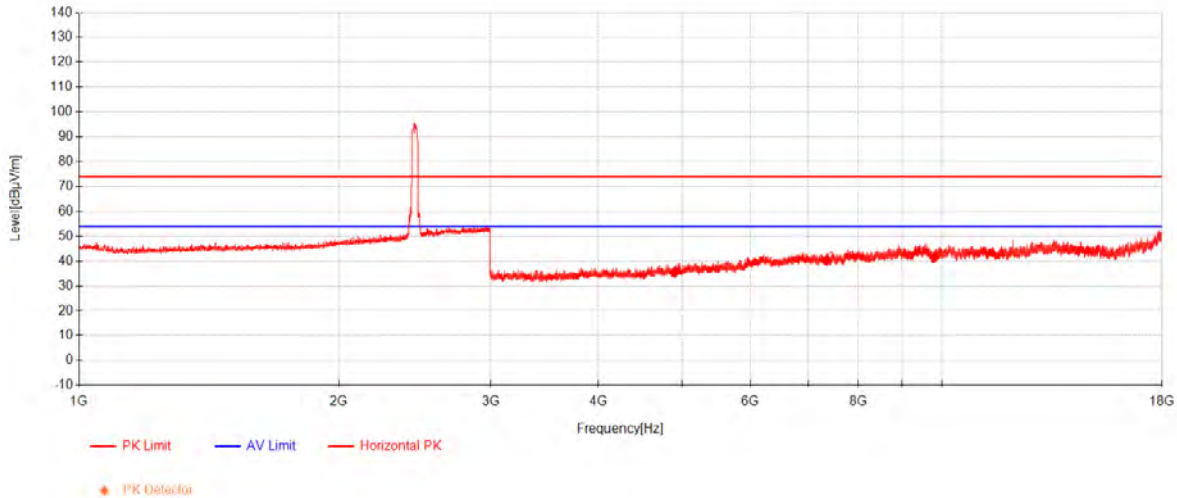


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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	48.06	32.37	-44.88	35.55	74.00	38.45	296	357	Horizontal
2	7356	45.84	36.41	-41.88	40.37	74.00	33.63	287	343	Horizontal
3	9808	40.58	38.52	-37.48	41.62	74.00	32.38	300	344	Horizontal

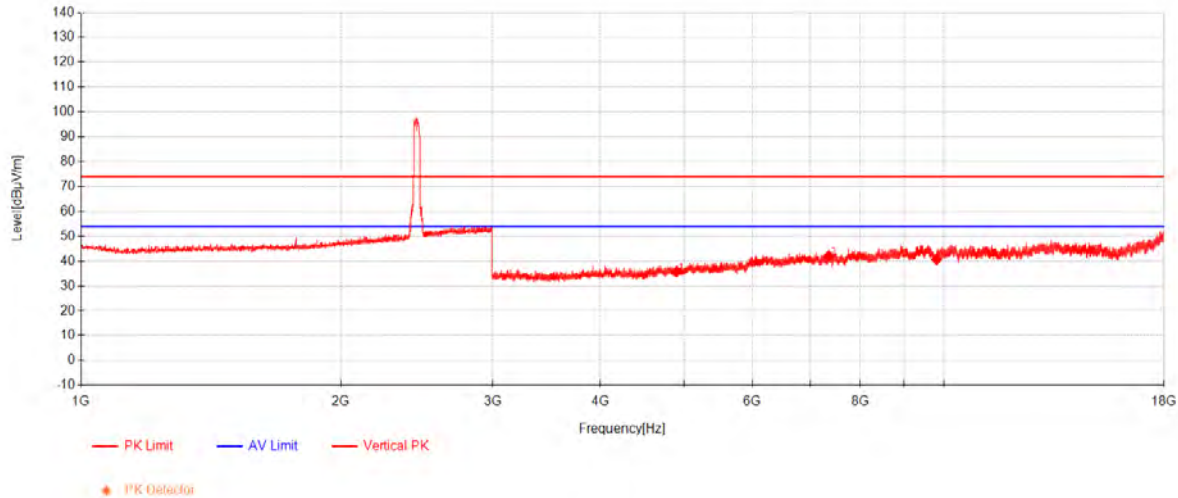


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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	48.29	32.37	-44.88	35.78	74.00	38.22	285	107	Vertical
2	7356	47.51	36.41	-41.88	42.04	74.00	31.96	274	88	Vertical
3	9808	39.62	38.52	-37.48	40.66	74.00	33.34	142	0	Vertical

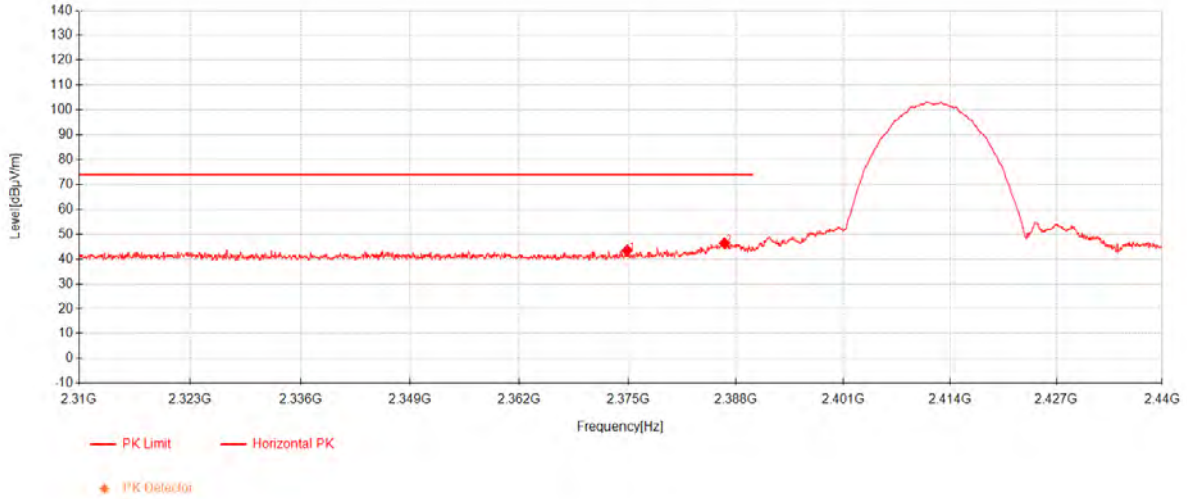
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier 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) - Pre-amplifier gain(dB)  
 Margin = Limit(dBμV/m) – Level(dBμV/m)
- All channels have been tested, but only the worst case data displayed in this report.
- Both peak and average measured complies with the limit line, so test result is "PASS"



### Restricted bands around fundamental frequency

#### 802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.9025	40.28	27.65	-24.46	43.47	74.00	30.53	289	37	Horizontal
2	2386.6025	43.17	27.67	-24.43	46.41	74.00	27.59	289	37	Horizontal

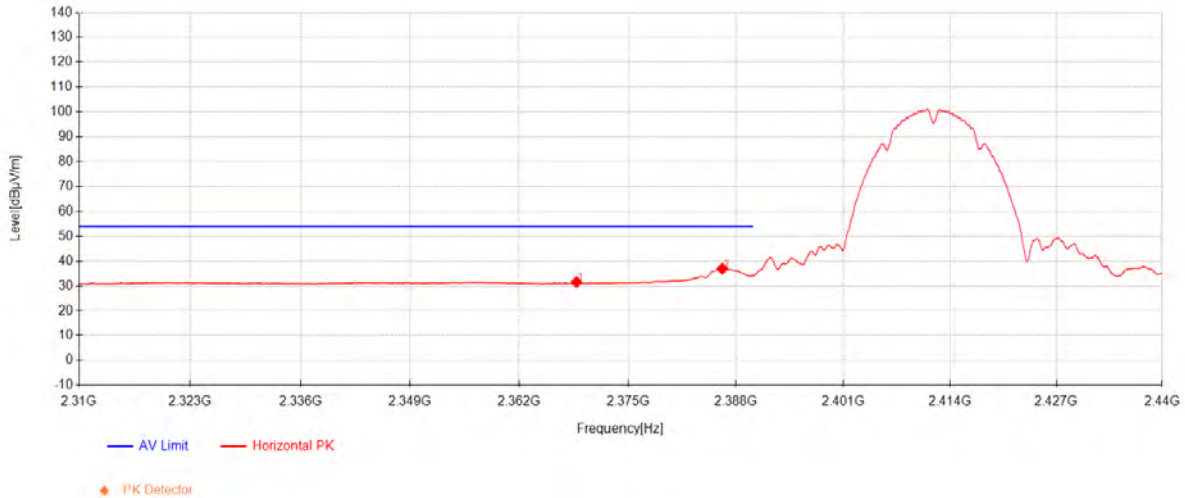


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802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2368.825	28.39	27.64	-24.47	31.56	54.00	22.44	289	37	Horizontal
2	2386.3425	33.65	27.67	-24.43	36.89	54.00	17.11	289	37	Horizontal

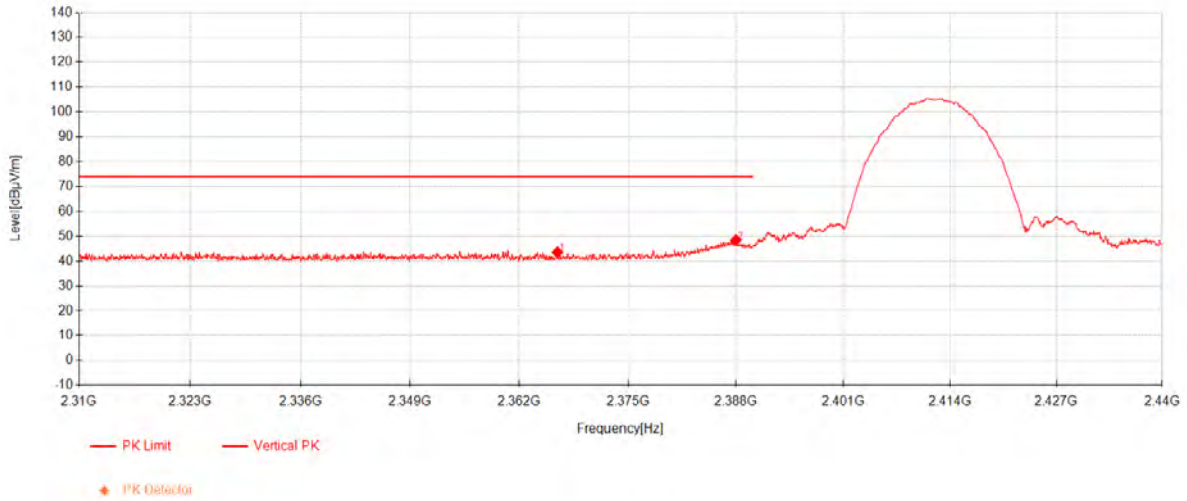


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802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.55	40.36	27.63	-24.47	43.52	74.00	30.48	136	72	Vertical
2	2388	45.24	27.68	-24.43	48.49	74.00	25.51	136	72	Vertical

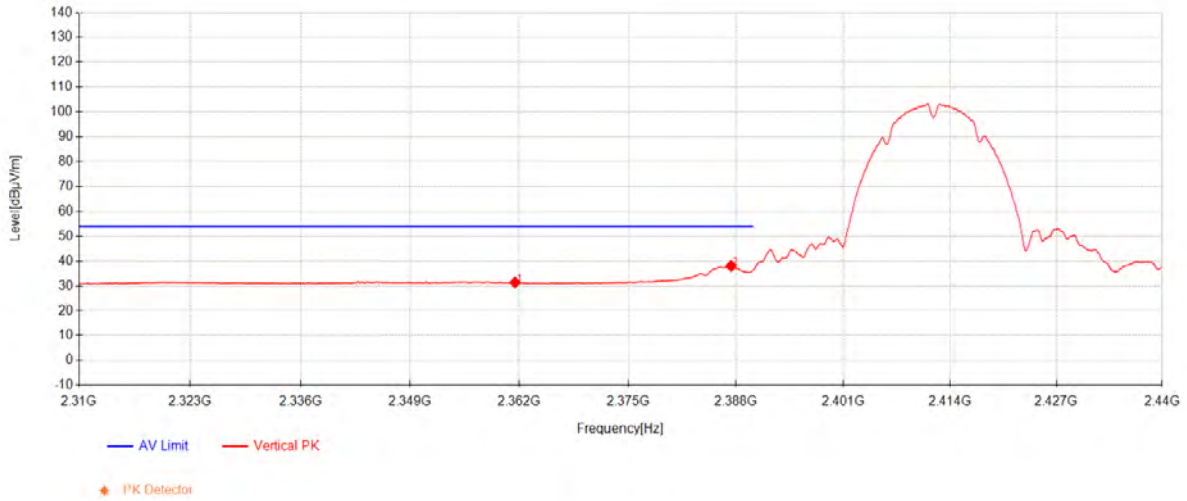


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802.11b\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2361.48	28.25	27.62	-24.48	31.39	54.00	22.61	136	72	Vertical
2	2387.415	34.78	27.67	-24.43	38.03	54.00	15.97	136	72	Vertical



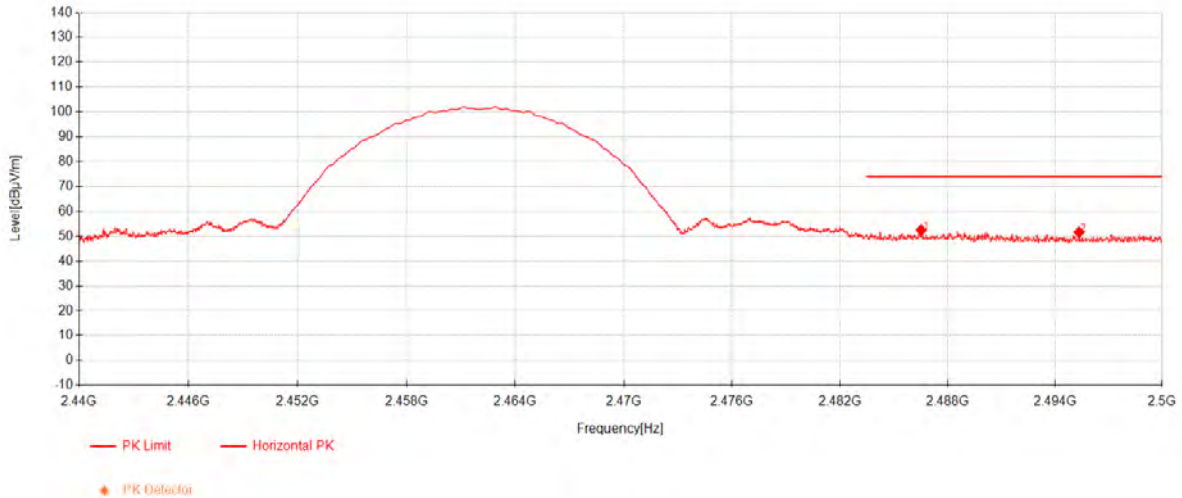
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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.53	48.56	27.87	-23.94	52.49	74.00	21.51	264	122	Horizontal
2	2495.35	47.61	27.89	-23.89	51.61	74.00	22.39	264	122	Horizontal

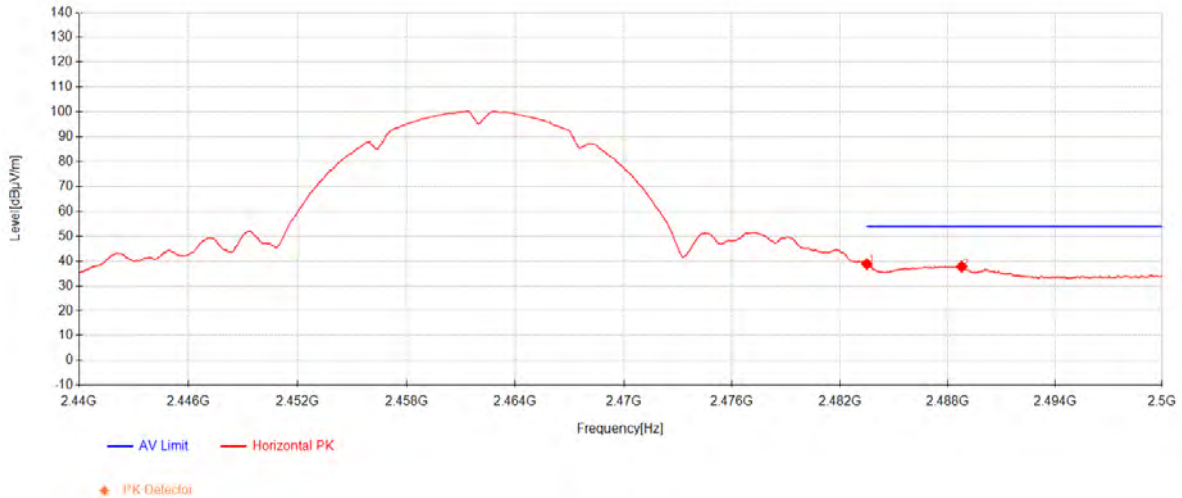


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	34.90	27.87	-23.96	38.81	54.00	15.19	264	122	Horizontal
2	2488.78	33.80	27.88	-23.93	37.75	54.00	16.25	264	122	Horizontal

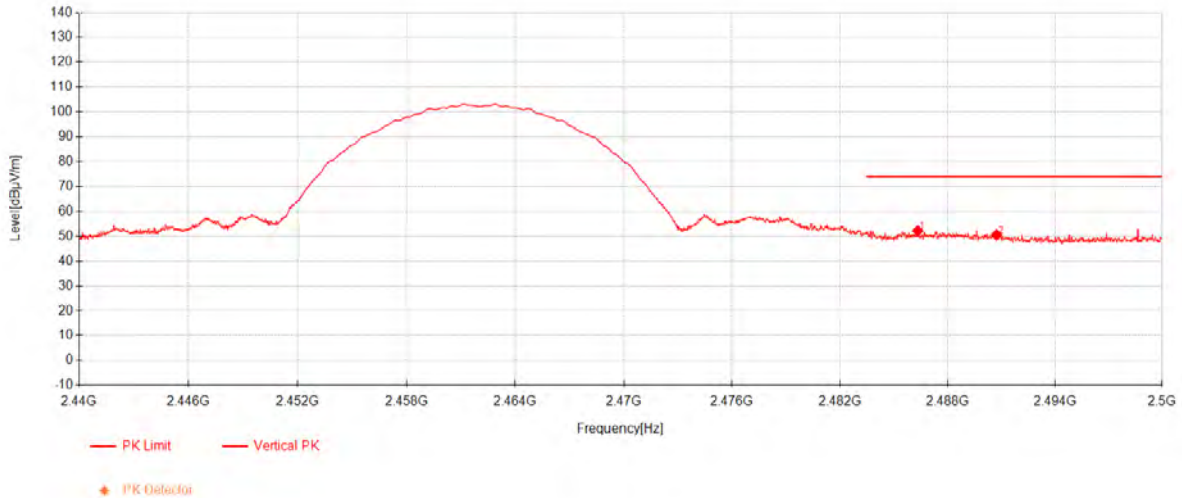


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.335	48.27	27.87	-23.94	52.20	74.00	21.80	139	71	Vertical
2	2490.73	46.59	27.88	-23.92	50.55	74.00	23.45	139	71	Vertical

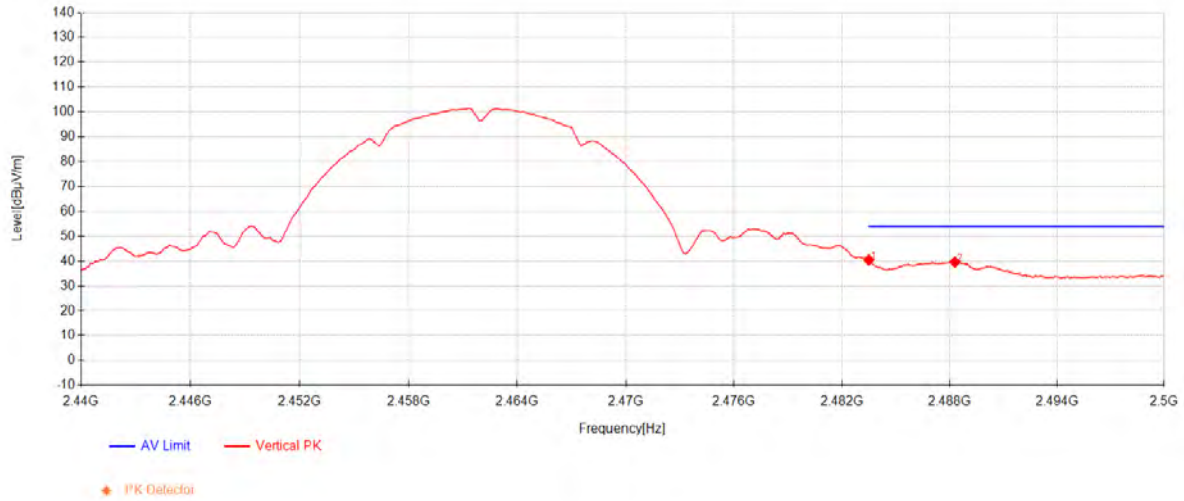


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802.11b\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	36.54	27.87	-23.96	40.45	54.00	13.55	139	71	Vertical
2	2488.3	35.65	27.88	-23.93	39.59	54.00	14.41	139	71	Vertical

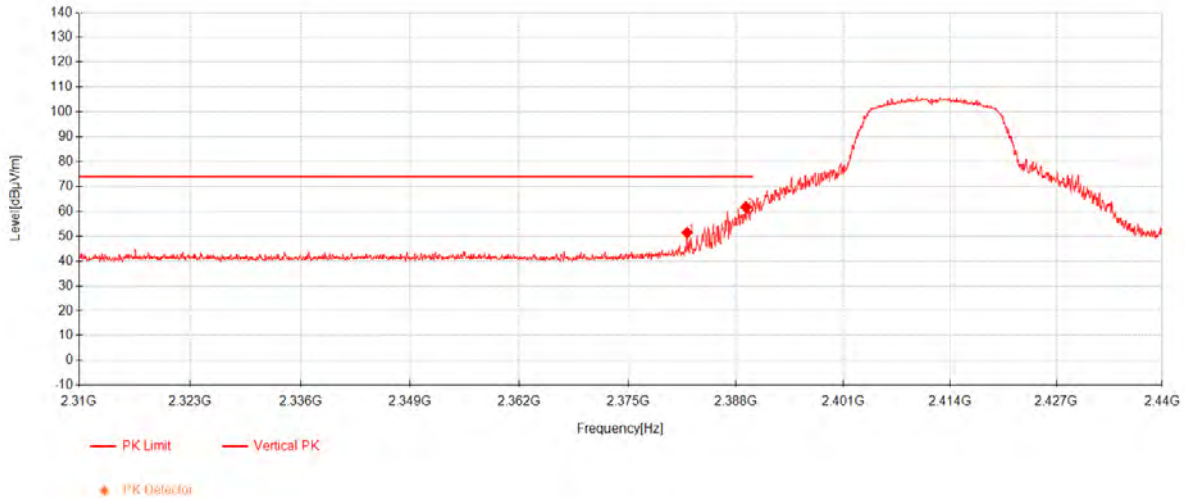


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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2382.1175	48.23	27.66	-24.44	51.45	74.00	22.55	141	76	Vertical
2	2389.2025	58.46	27.68	-24.42	61.71	74.00	12.29	141	76	Vertical

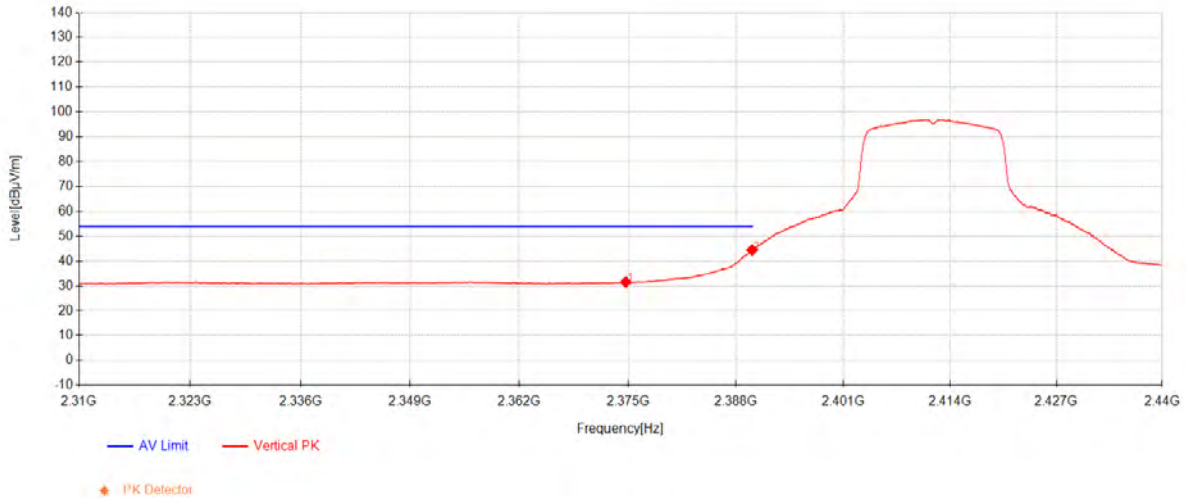


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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.74	28.37	27.65	-24.46	31.56	54.00	22.44	141	76	Vertical
2	2389.95	41.19	27.68	-24.42	44.45	54.00	9.55	141	76	Vertical

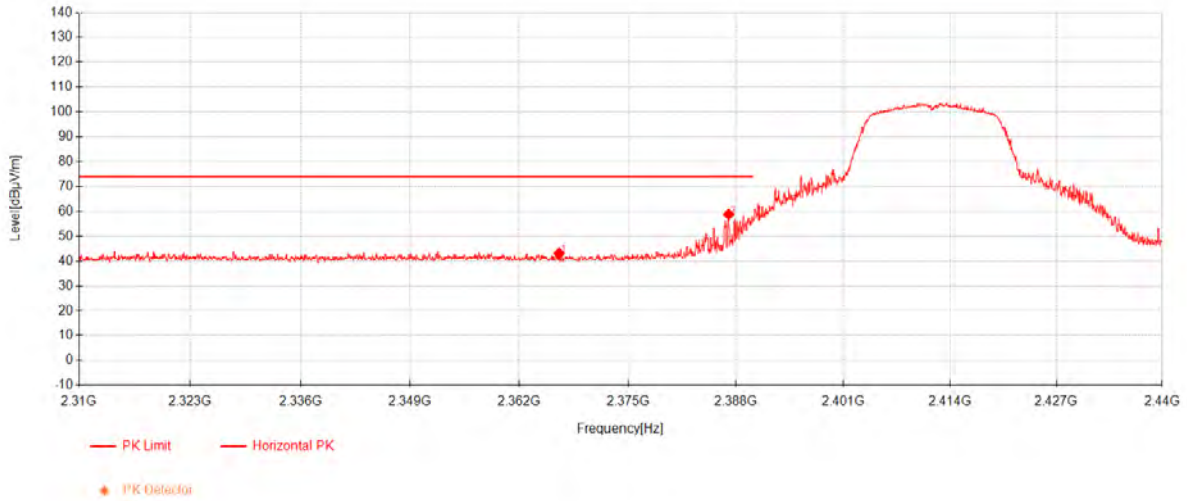


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802.11g\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2366.745	39.92	27.63	-24.47	43.08	74.00	30.92	252	118	Horizontal
2	2387.1225	55.55	27.67	-24.43	58.80	74.00	15.20	252	118	Horizontal

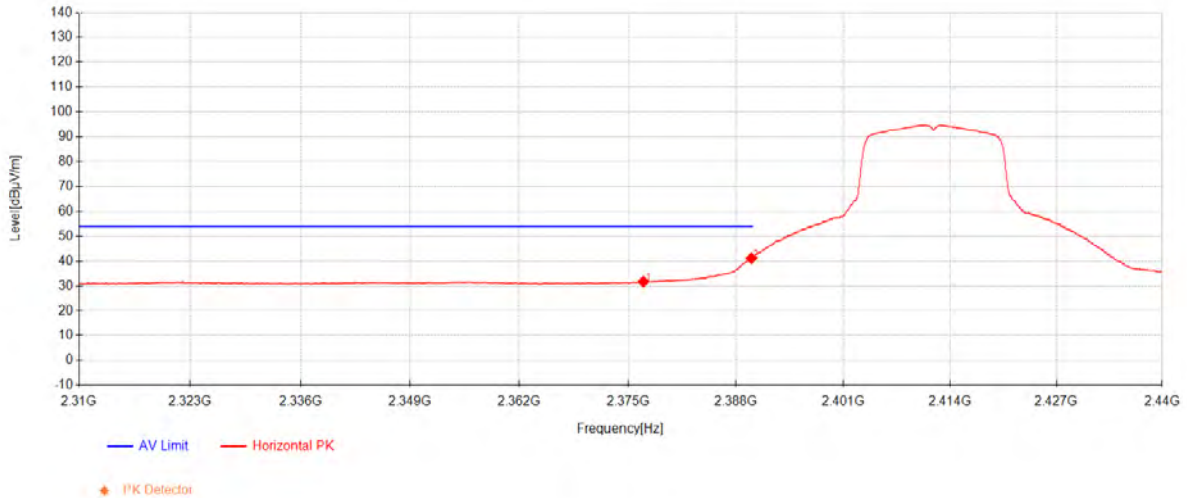


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.8525	28.53	27.65	-24.45	31.73	54.00	22.27	252	118	Horizontal
2	2389.8525	37.84	27.68	-24.42	41.10	54.00	12.90	252	118	Horizontal



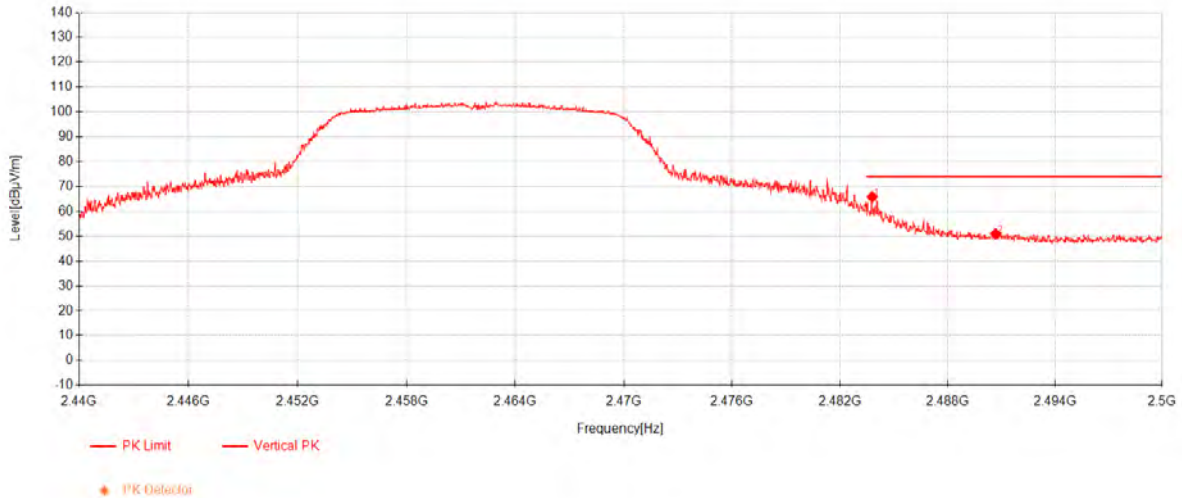
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802.11g\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.8	61.91	27.87	-23.96	65.82	74.00	8.18	174	64	Vertical
2	2490.685	47.01	27.88	-23.92	50.97	74.00	23.03	174	64	Vertical

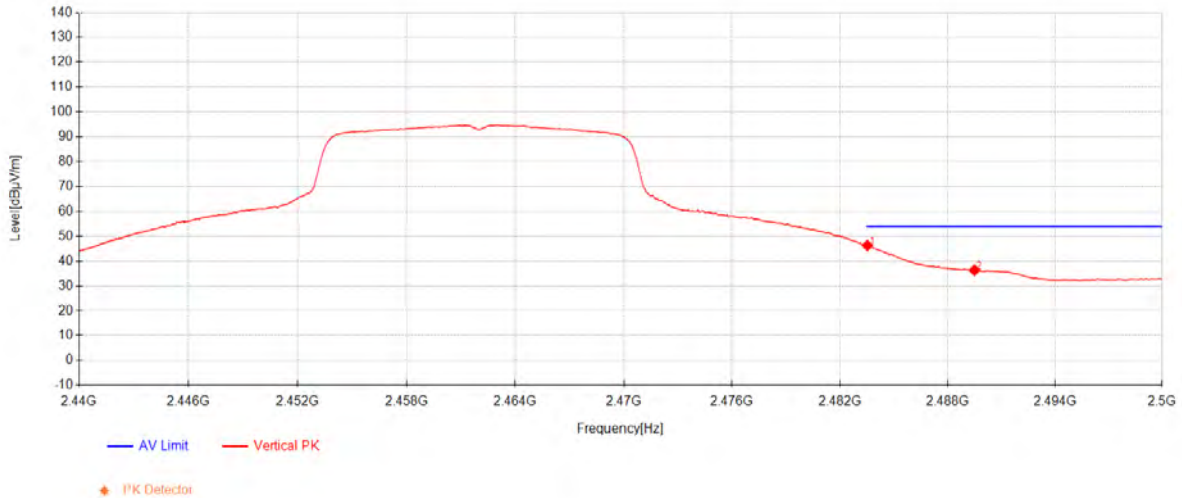


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.53	42.36	27.87	-23.96	46.27	54.00	7.73	174	64	Vertical
2	2489.5	32.36	27.88	-23.93	36.31	54.00	17.69	174	64	Vertical

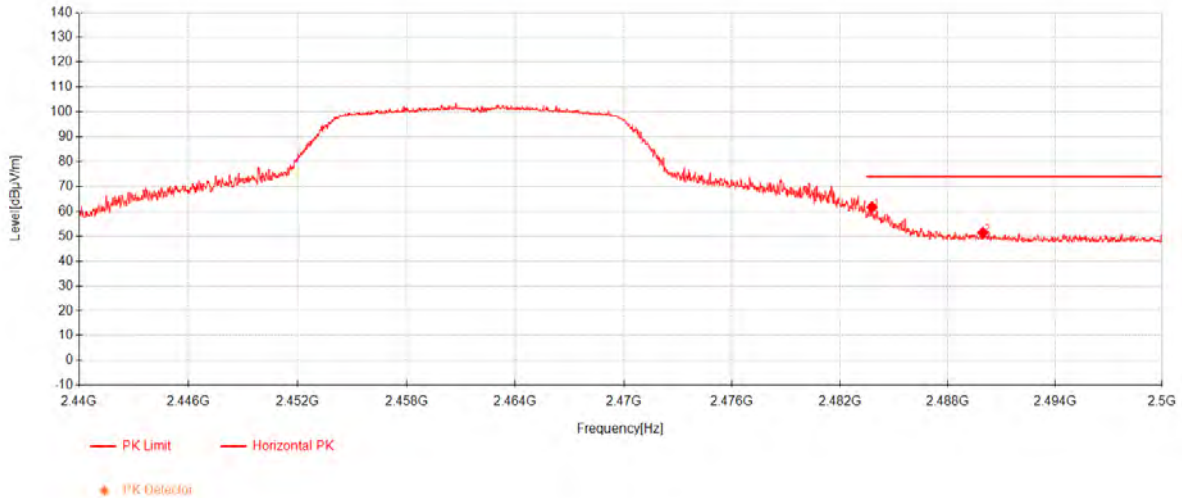


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.785	57.73	27.87	-23.96	61.64	74.00	12.36	266	124	Horizontal
2	2489.965	47.50	27.88	-23.92	51.46	74.00	22.54	266	124	Horizontal

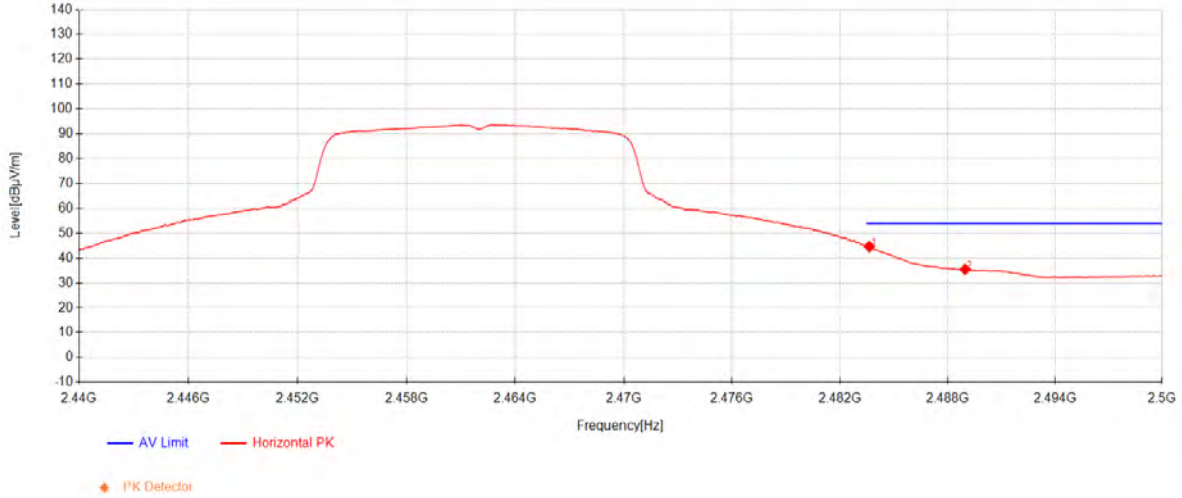


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802.11g\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.635	40.73	27.87	-23.96	44.64	54.00	9.36	266	124	Horizontal
2	2488.975	31.49	27.88	-23.93	35.44	54.00	18.56	266	124	Horizontal

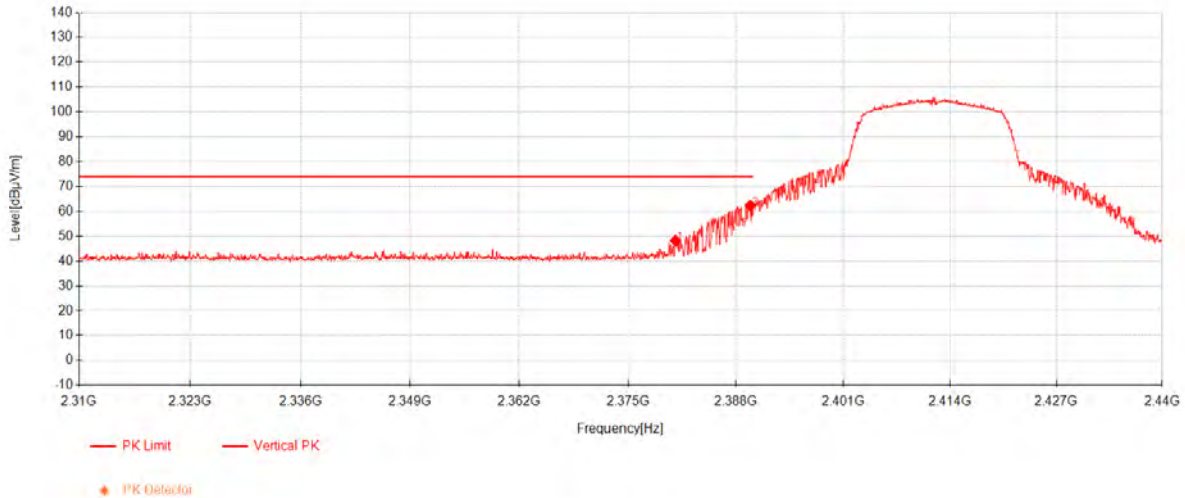


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802.11n20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2380.72	45.02	27.66	-24.44	48.24	74.00	25.76	114	68	Vertical
2	2389.7225	59.04	27.68	-24.42	62.30	74.00	11.70	114	68	Vertical

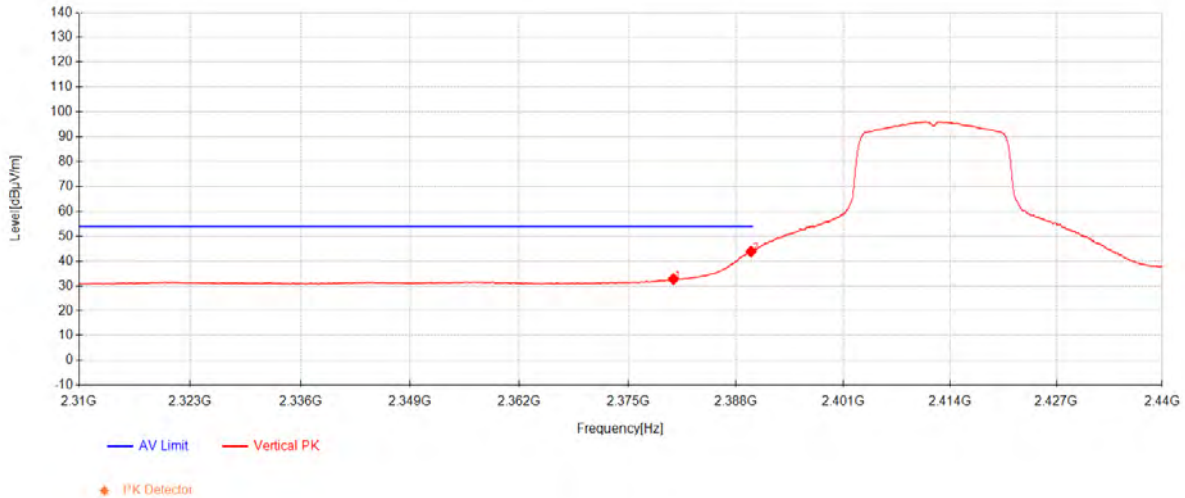


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1	2380.46	29.52	27.66	-24.44	32.74	54.00	21.26	114	68	Vertical
2	2389.82	40.56	27.68	-24.42	43.82	54.00	10.18	114	68	Vertical

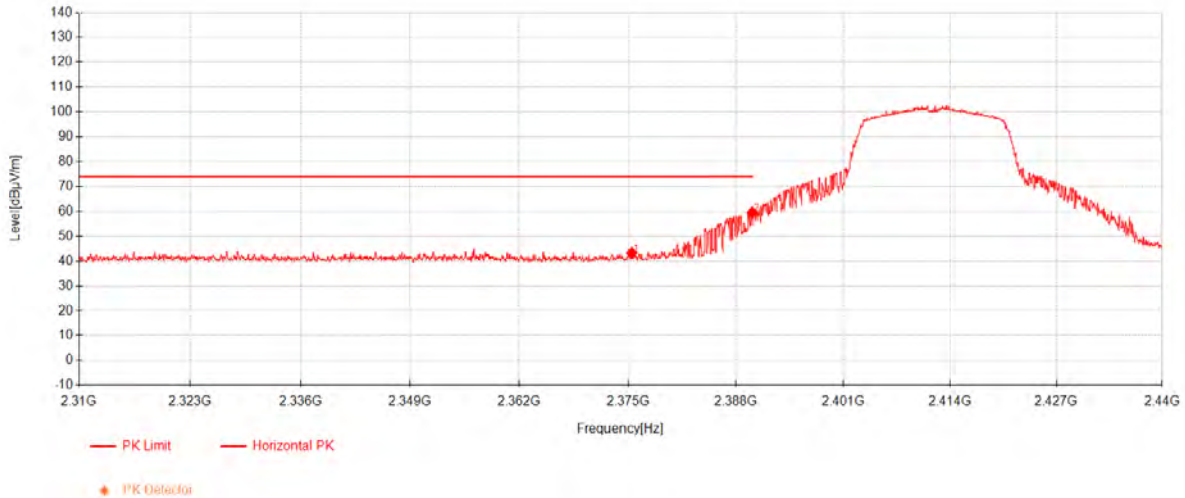


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.455	40.04	27.65	-24.45	43.24	74.00	30.76	276	118	Horizontal
2	2389.9825	56.29	27.68	-24.42	59.55	74.00	14.45	276	118	Horizontal



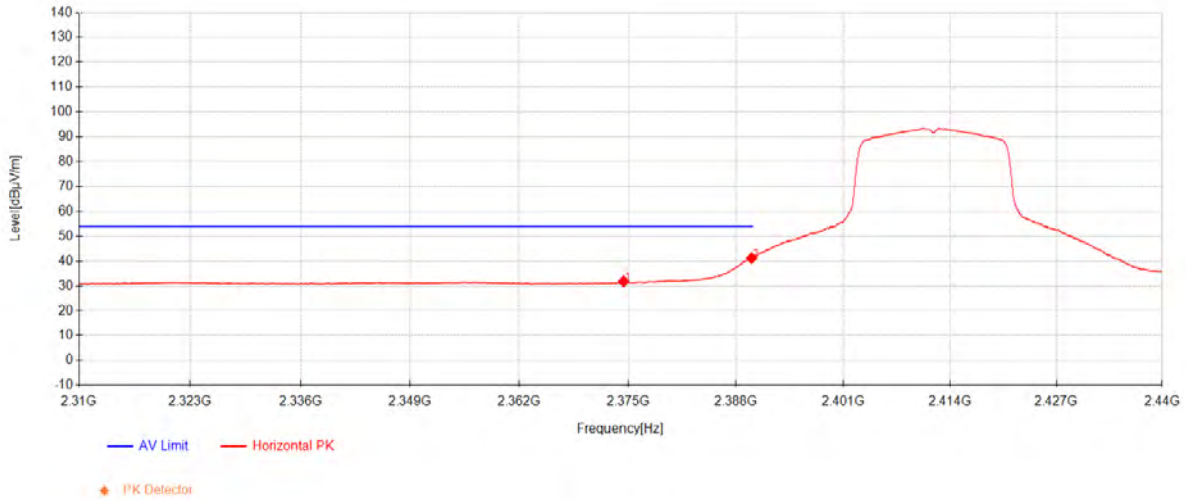
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.48	28.67	27.65	-24.46	31.86	54.00	22.14	276	118	Horizontal
2	2389.885	37.88	27.68	-24.42	41.14	54.00	12.86	276	118	Horizontal



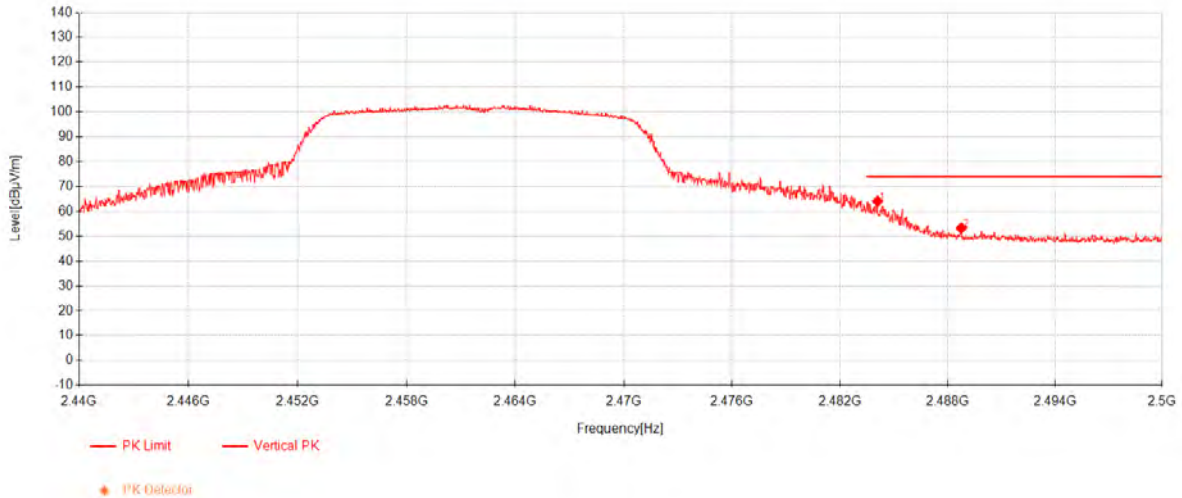
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.1	60.15	27.87	-23.95	64.06	74.00	9.94	115	67	Vertical
2	2488.765	49.30	27.88	-23.93	53.25	74.00	20.75	115	67	Vertical

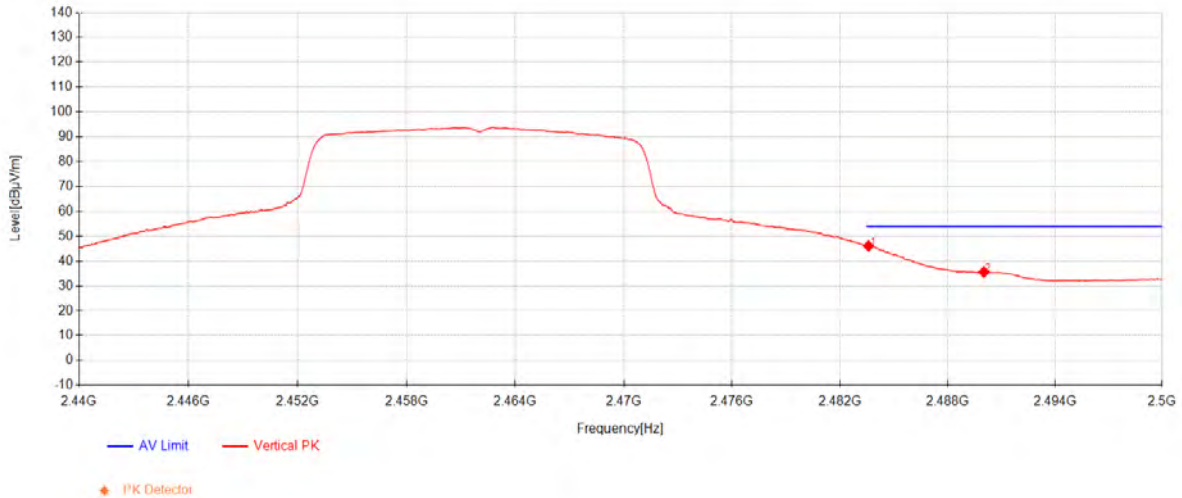


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.59	42.19	27.87	-23.96	46.10	54.00	7.90	115	67	Vertical
2	2490.025	31.59	27.88	-23.92	35.55	54.00	18.45	115	67	Vertical

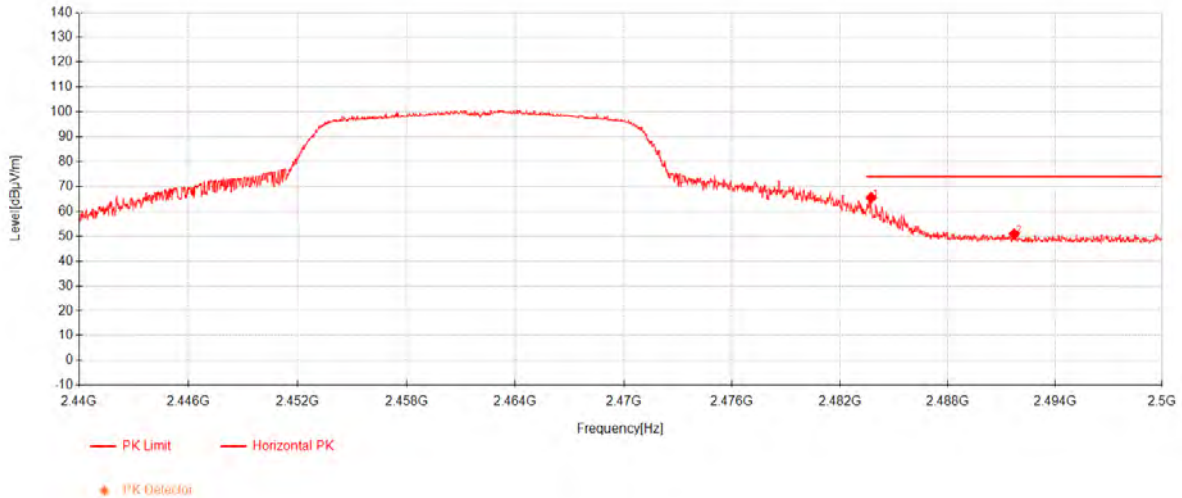


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.74	61.61	27.87	-23.96	65.52	74.00	8.48	298	122	Horizontal
2	2491.72	46.90	27.88	-23.91	50.87	74.00	23.13	298	122	Horizontal

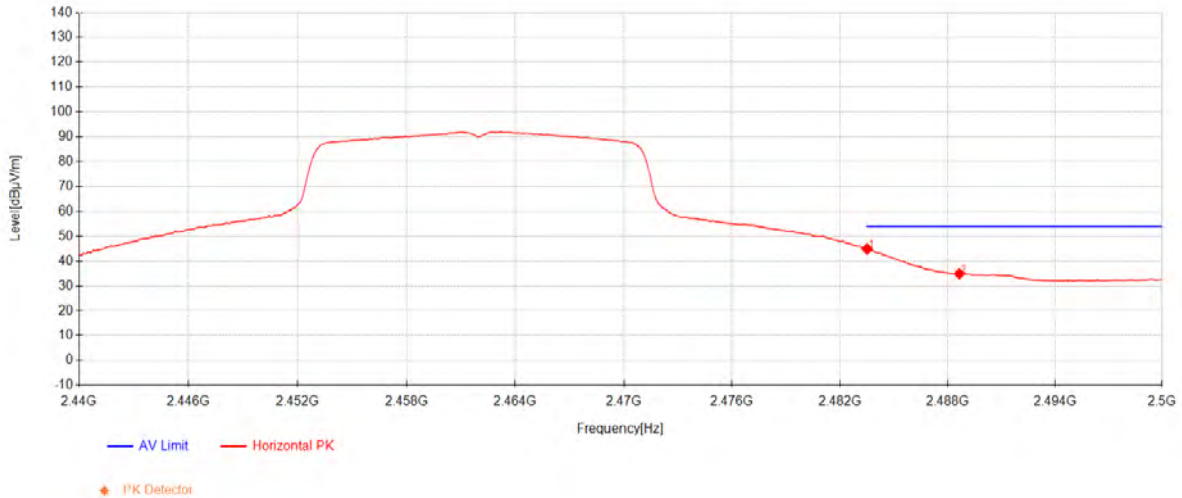


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802.11n20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.515	40.97	27.87	-23.96	44.88	54.00	9.12	298	122	Horizontal
2	2488.66	30.91	27.88	-23.93	34.86	54.00	19.14	298	122	Horizontal

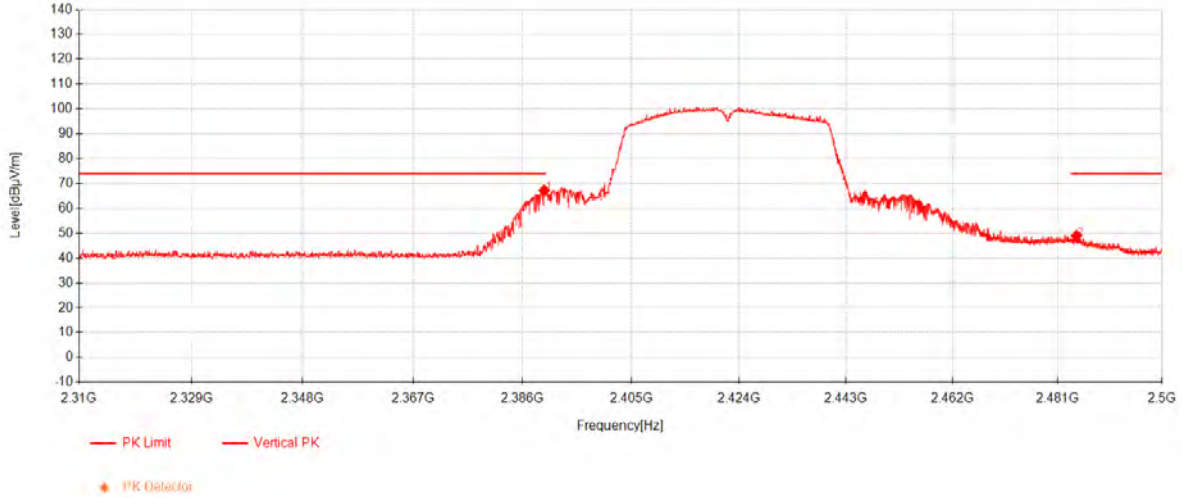


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7875	63.99	27.68	-24.42	67.25	74.00	6.75	117	75	Vertical
2	2484.43	45.02	27.87	-23.95	48.94	74.00	25.06	117	75	Vertical

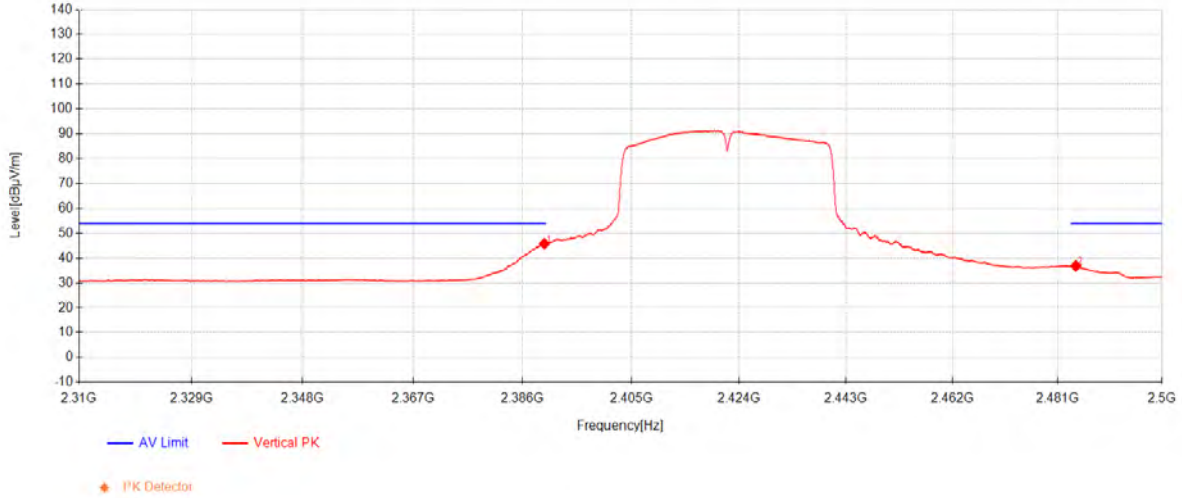


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7875	42.52	27.68	-24.42	45.78	54.00	8.22	117	75	Vertical
2	2484.31	32.93	27.87	-23.95	36.85	54.00	17.15	117	75	Vertical

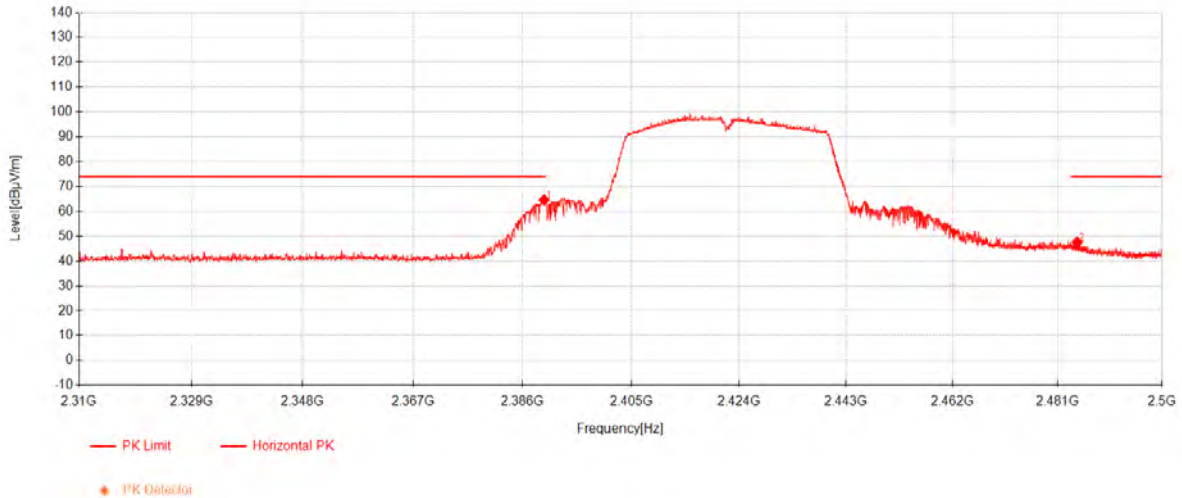


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.755	61.34	27.68	-24.42	64.60	74.00	9.40	278	125	Horizontal
2	2484.55	43.68	27.87	-23.95	47.60	74.00	26.40	278	125	Horizontal

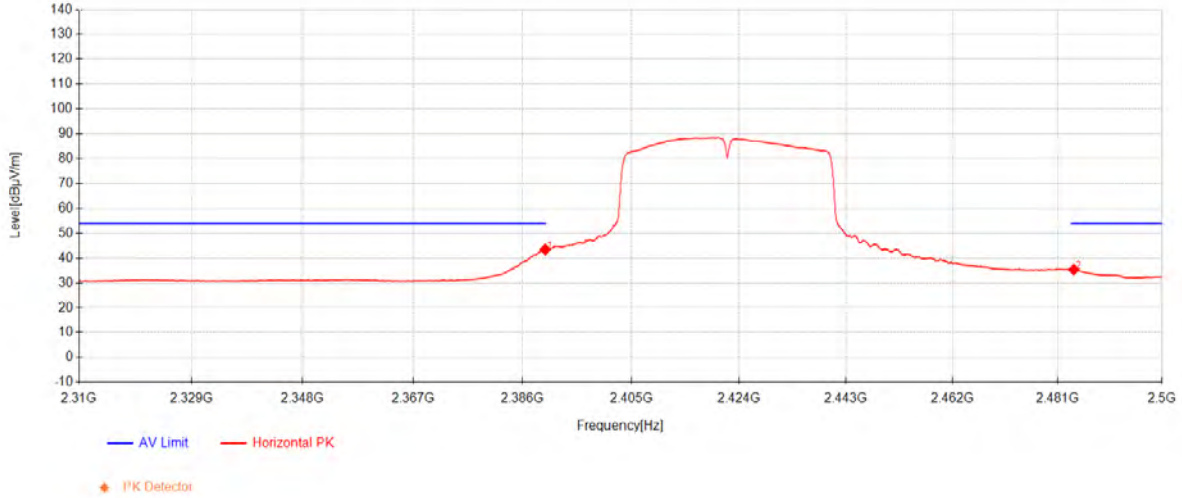


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802.11n40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.95	40.16	27.68	-24.42	43.42	54.00	10.58	278	125	Horizontal
2	2483.92	31.43	27.87	-23.96	35.34	54.00	18.66	278	125	Horizontal



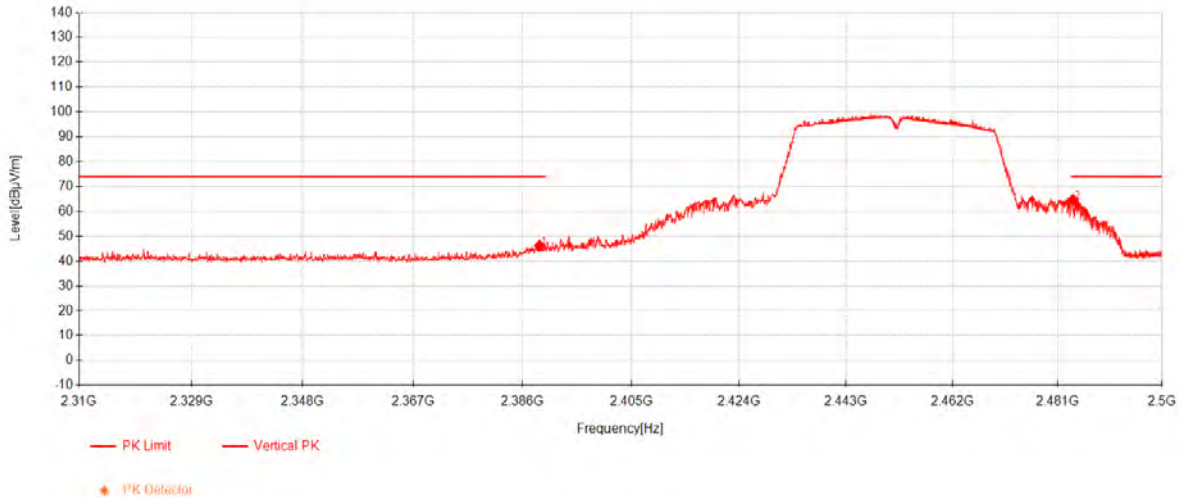
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802.11n40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.975	43.01	27.68	-24.42	46.26	74.00	27.74	111	64	Vertical
2	2483.785	60.78	27.87	-23.96	64.69	74.00	9.31	111	64	Vertical

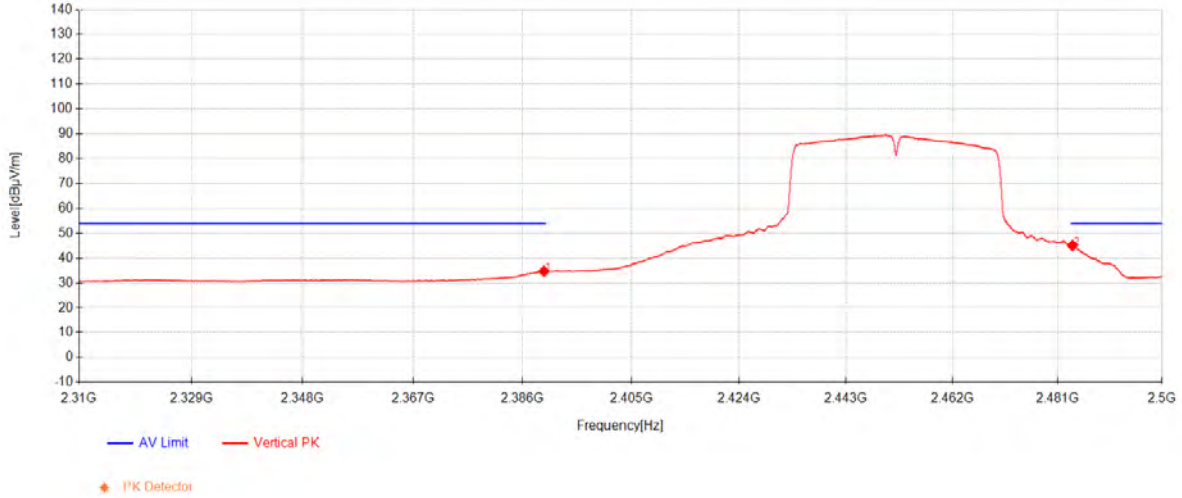


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802.11n40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7225	31.39	27.68	-24.42	34.65	54.00	19.35	111	64	Vertical
2	2483.71	41.14	27.87	-23.96	45.05	54.00	8.95	111	64	Vertical

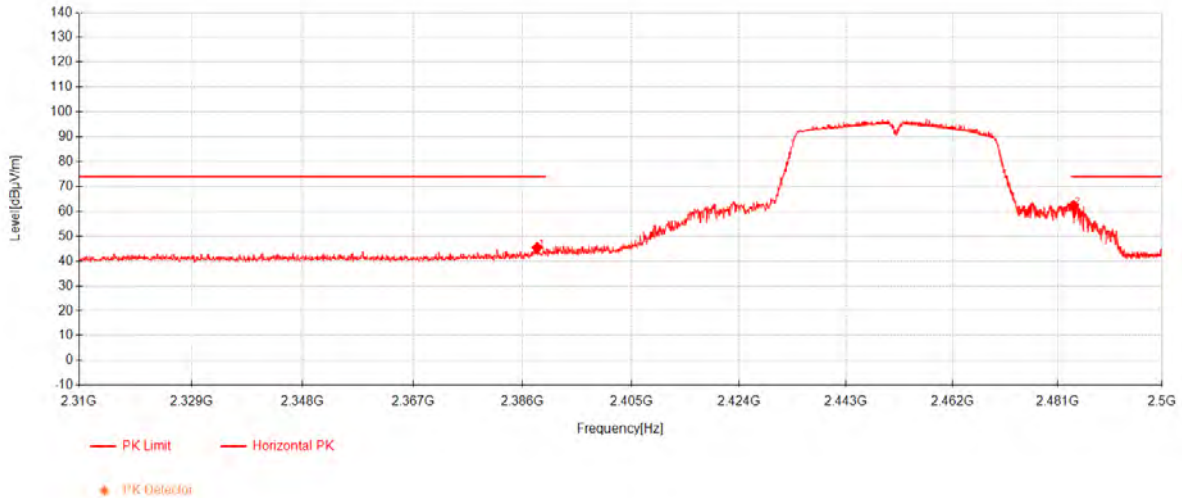


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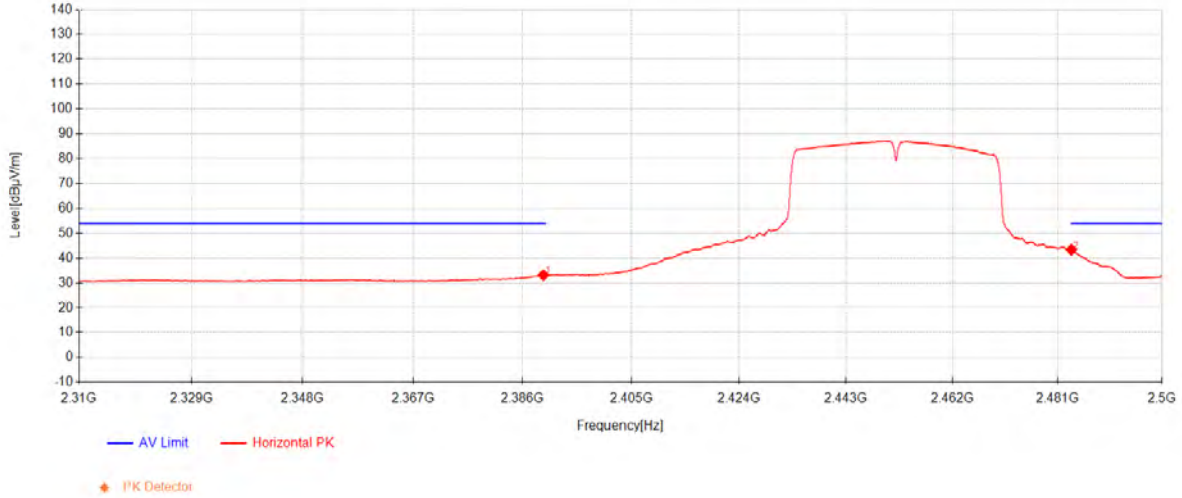
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.5525	42.18	27.68	-24.43	45.43	74.00	28.57	271	128	Horizontal
2	2483.875	58.33	27.87	-23.96	62.24	74.00	11.76	271	128	Horizontal



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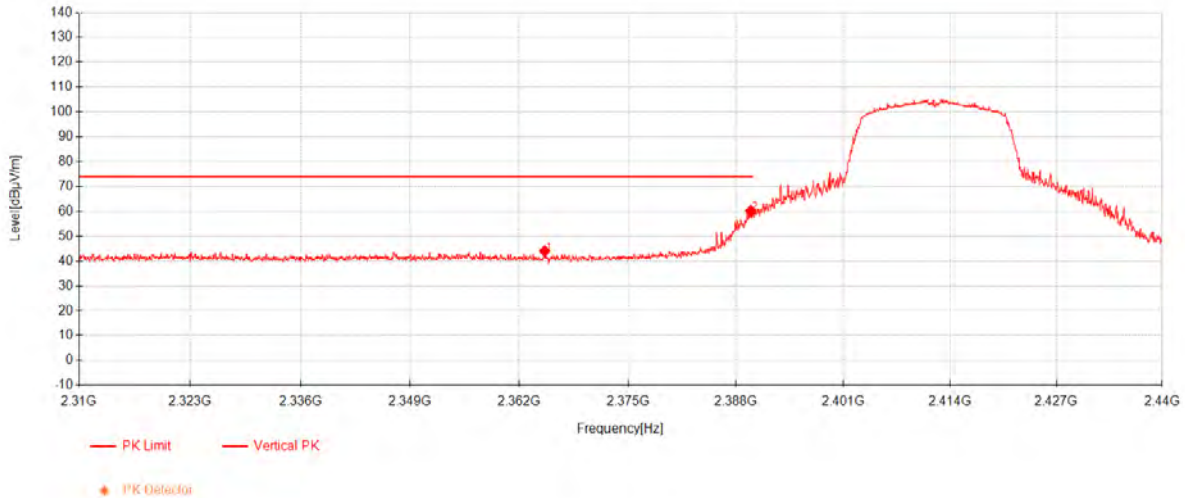
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.625	29.87	27.68	-24.42	33.13	54.00	20.87	271	128	Horizontal
2	2483.5	39.45	27.87	-23.96	43.36	54.00	10.64	271	128	Horizontal



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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2365.0225	40.83	27.63	-24.48	43.98	74.00	30.02	149	69	Vertical
2	2389.7875	56.94	27.68	-24.42	60.20	74.00	13.80	149	69	Vertical

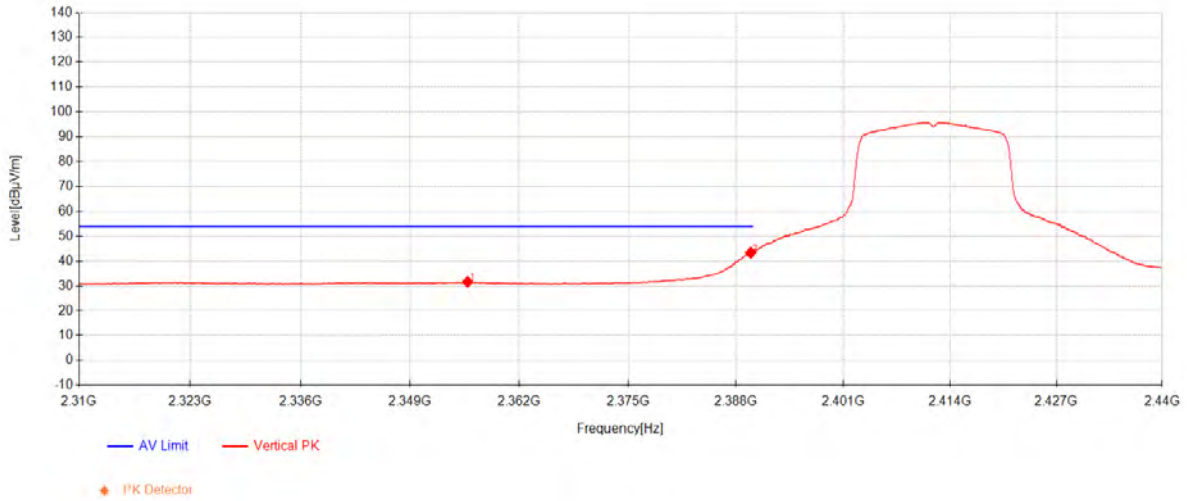


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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.825	28.54	27.61	-24.50	31.65	54.00	22.35	149	69	Vertical
2	2389.7875	40.11	27.68	-24.42	43.37	54.00	10.63	149	69	Vertical

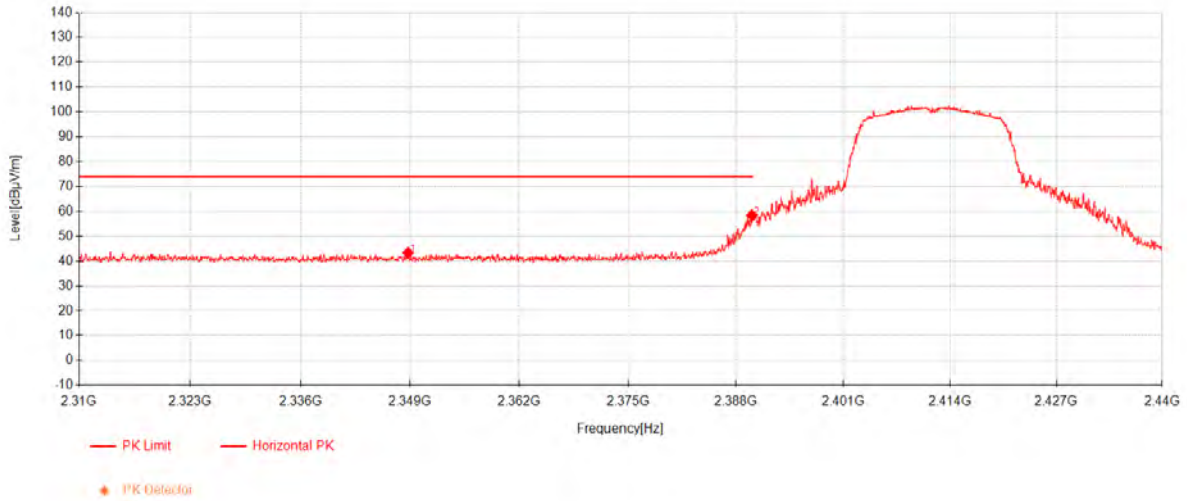


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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2348.74	40.21	27.60	-24.51	43.29	74.00	30.71	277	124	Horizontal
2	2389.9175	55.20	27.68	-24.42	58.46	74.00	15.54	277	124	Horizontal

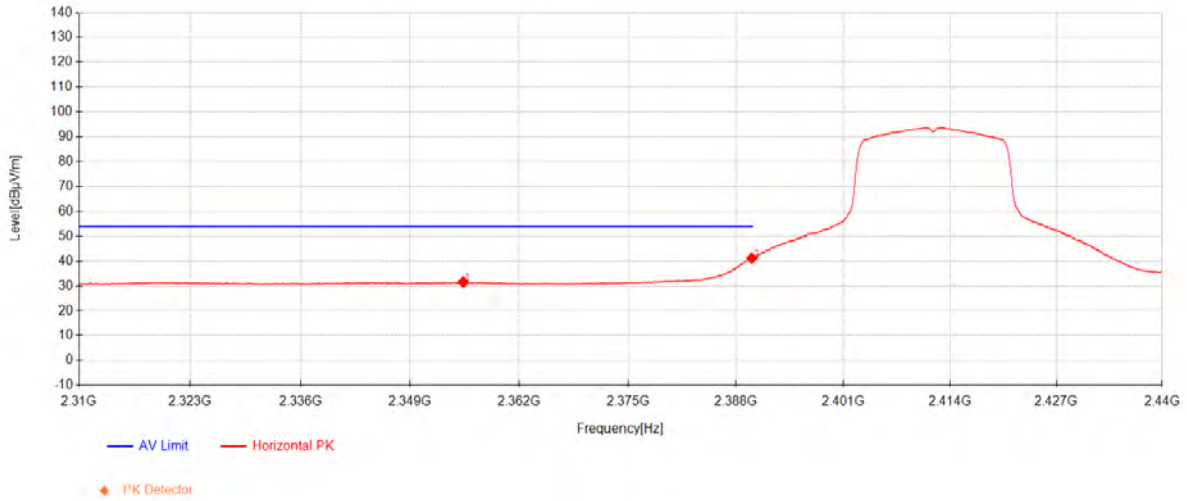


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802.11VHT 20\_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2355.305	28.44	27.61	-24.50	31.55	54.00	22.45	277	124	Horizontal
2	2389.9175	37.84	27.68	-24.42	41.10	54.00	12.90	277	124	Horizontal



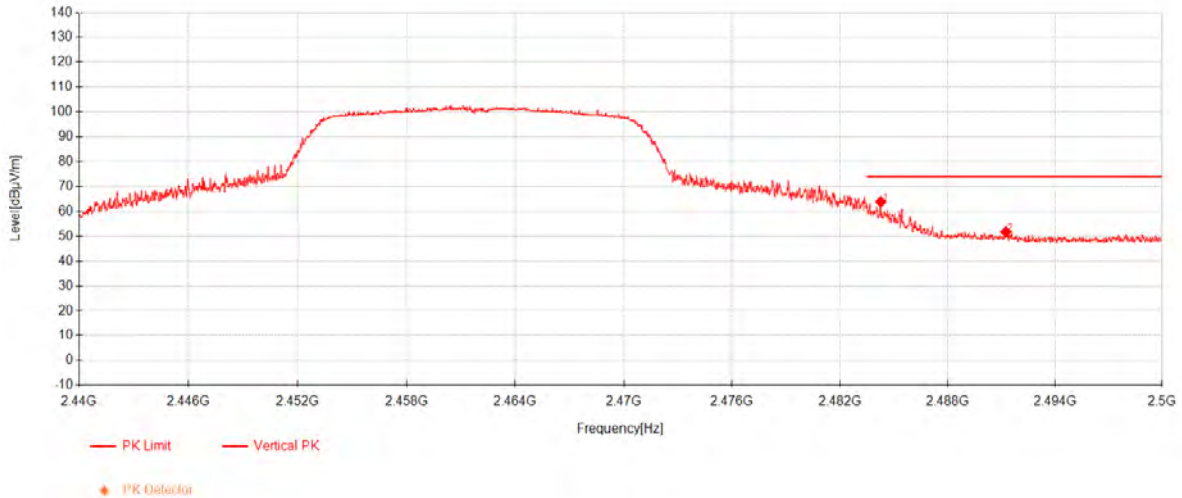
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802.11VHT 20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.28	59.91	27.87	-23.95	63.83	74.00	10.17	174	66	Vertical
2	2491.255	47.74	27.88	-23.92	51.71	74.00	22.29	174	66	Vertical

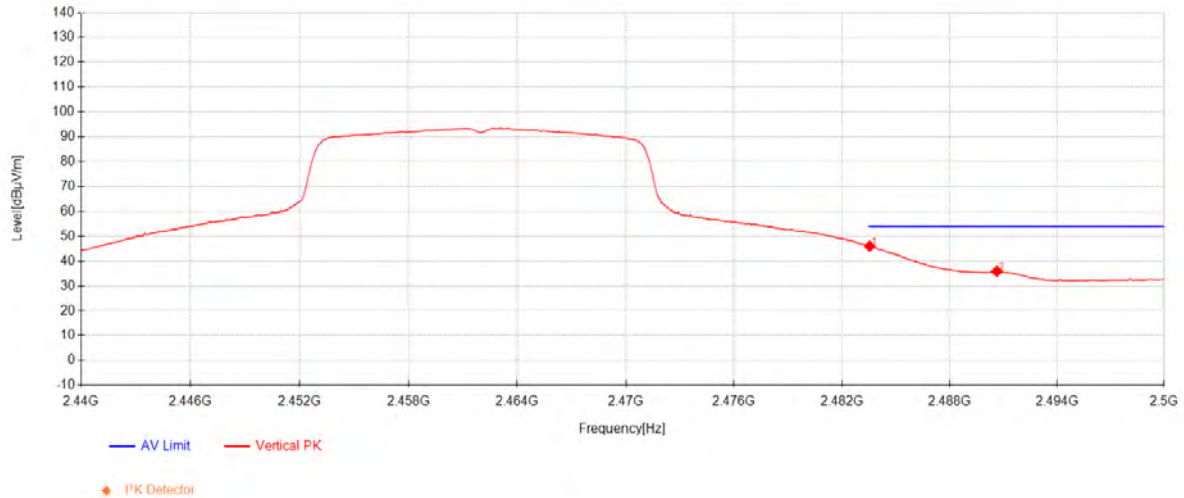


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802.11VHT 20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.545	42.08	27.87	-23.96	45.99	54.00	8.01	174	66	Vertical
2	2490.64	31.89	27.88	-23.92	35.85	54.00	18.15	174	66	Vertical

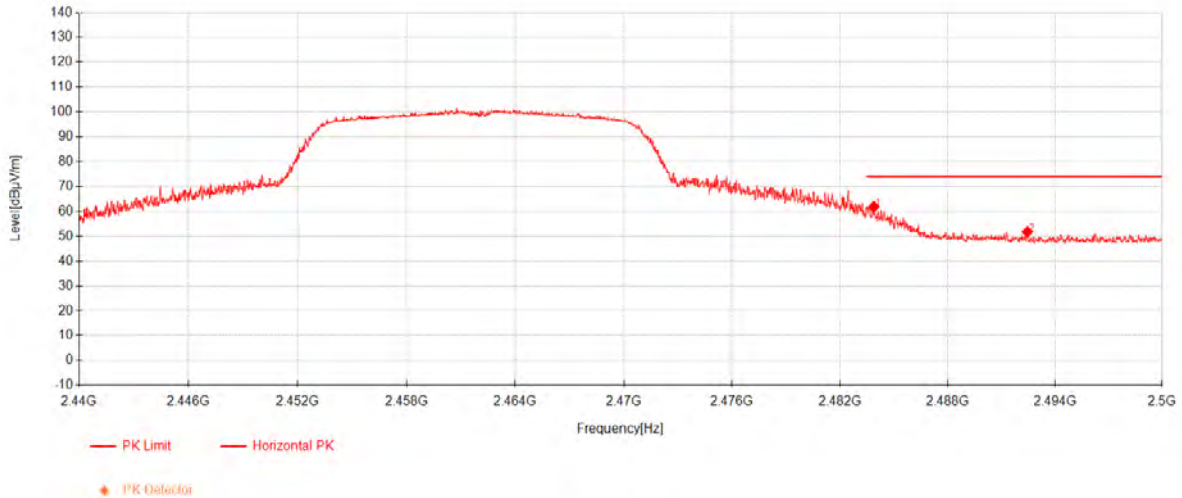


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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.89	57.93	27.87	-23.96	61.84	74.00	12.16	298	121	Horizontal
2	2492.455	47.77	27.88	-23.91	51.74	74.00	22.26	298	121	Horizontal

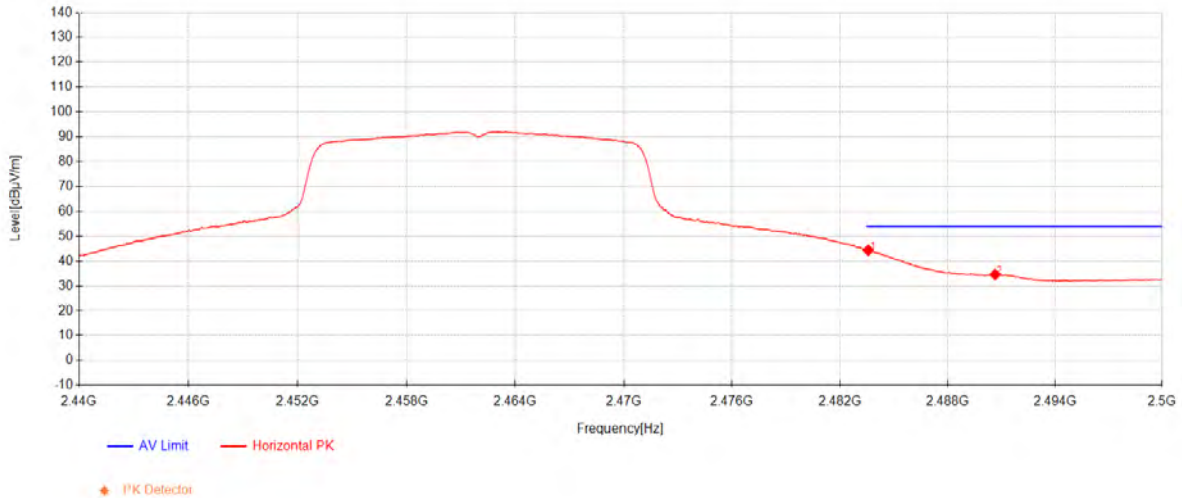


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802.11VHT 20\_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.575	40.45	27.87	-23.96	44.36	54.00	9.64	298	121	Horizontal
2	2490.655	30.58	27.88	-23.92	34.54	54.00	19.46	298	121	Horizontal

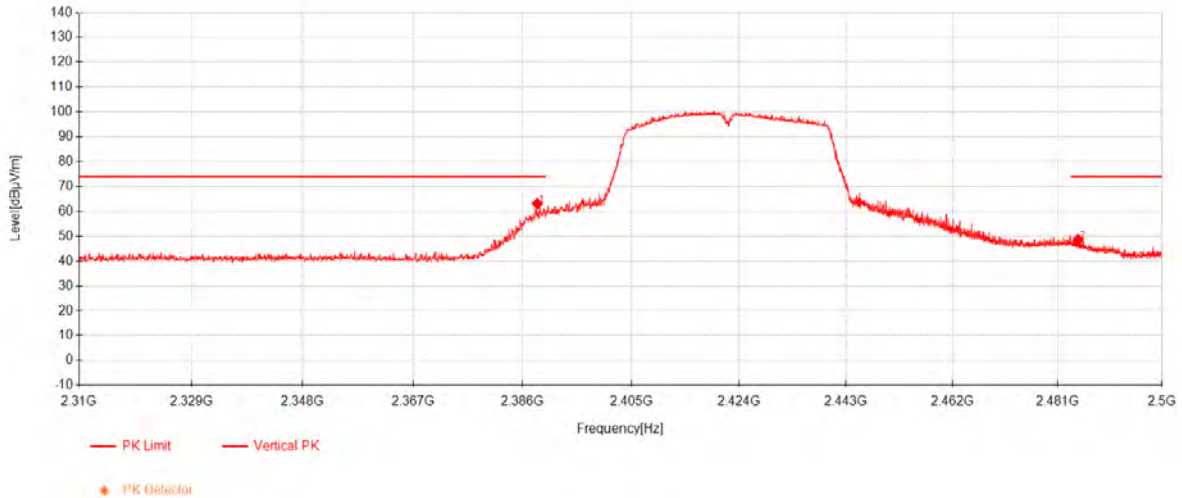


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.5525	59.83	27.68	-24.43	63.08	74.00	10.92	116	64	Vertical
2	2484.7	44.71	27.87	-23.95	48.63	74.00	25.37	116	64	Vertical

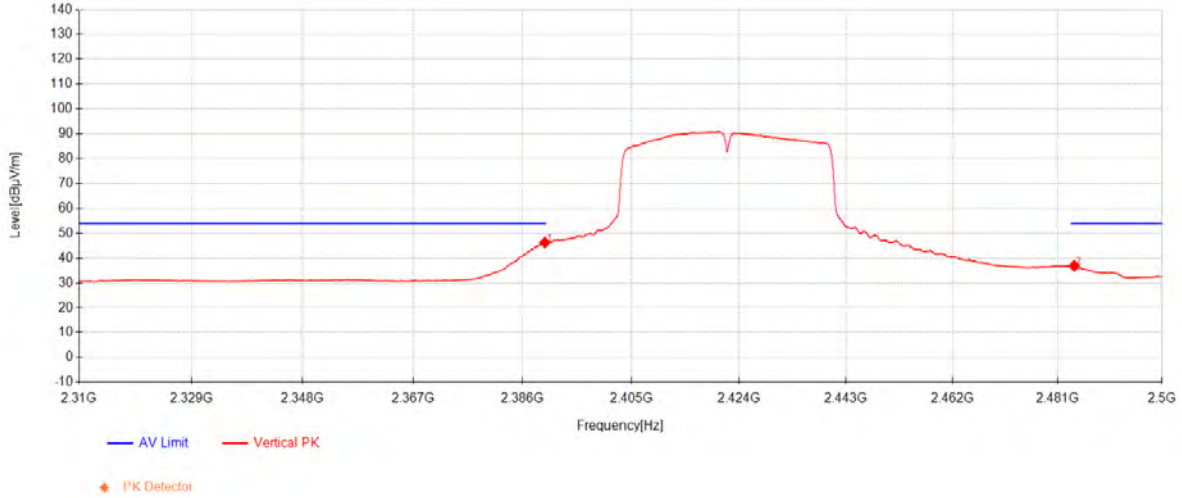


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.885	42.99	27.68	-24.42	46.25	54.00	7.75	116	64	Vertical
2	2484.01	32.94	27.87	-23.95	36.85	54.00	17.15	116	64	Vertical

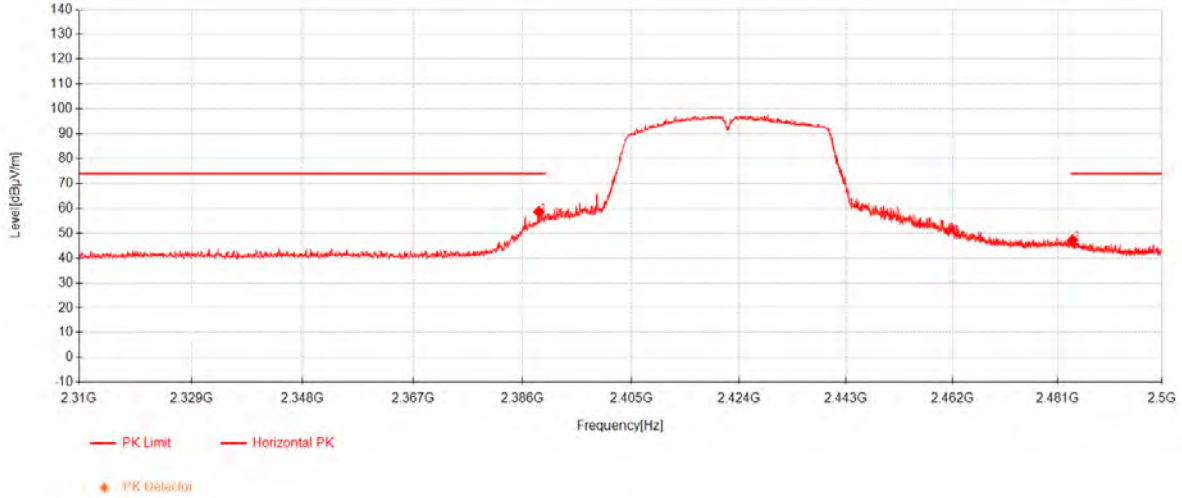


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.845	55.38	27.68	-24.42	58.63	74.00	15.37	311	116	Horizontal
2	2483.71	43.26	27.87	-23.96	47.17	74.00	26.83	311	116	Horizontal

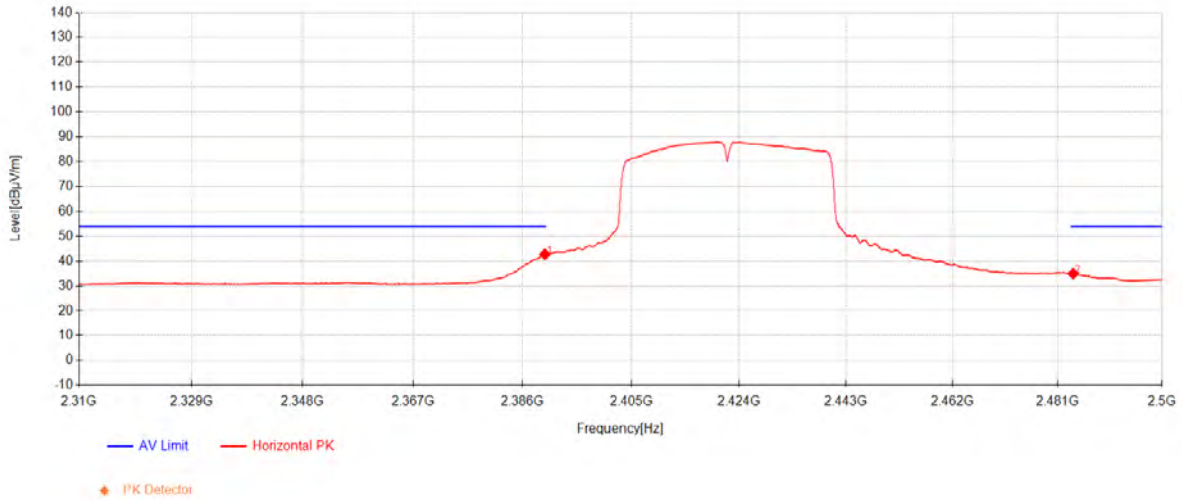


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802.11VHT 40\_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.885	39.45	27.68	-24.42	42.71	54.00	11.29	311	116	Horizontal
2	2483.83	31.02	27.87	-23.96	34.93	54.00	19.07	311	116	Horizontal



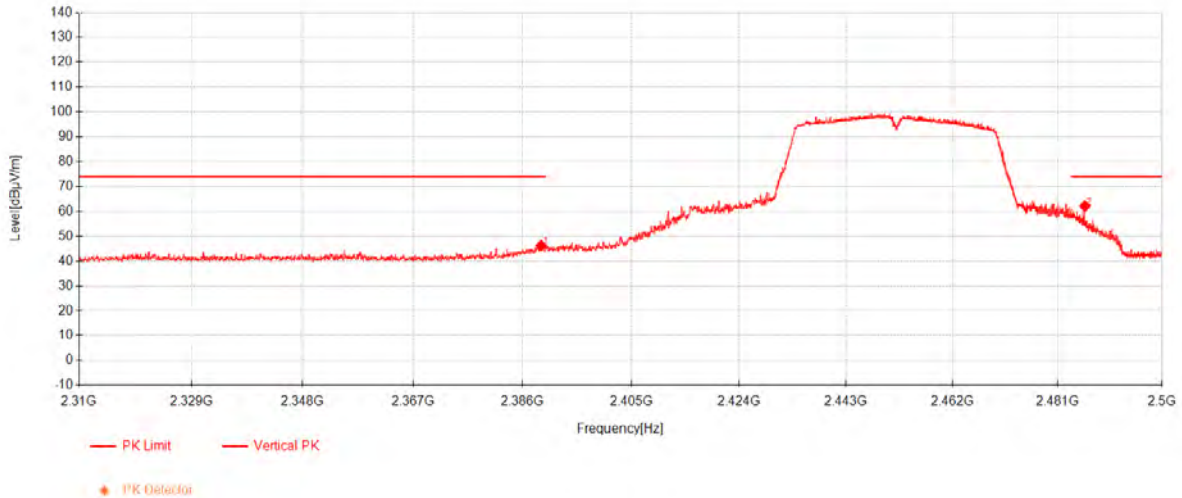
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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.235	43.02	27.68	-24.42	46.27	74.00	27.73	131	63	Vertical
2	2485.96	58.14	27.87	-23.94	62.07	74.00	11.93	131	63	Vertical



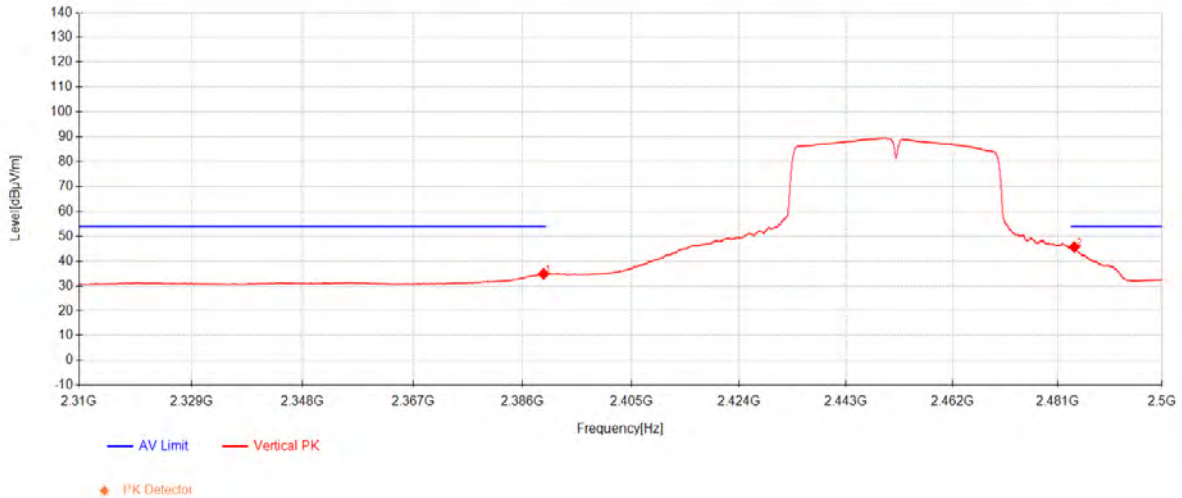
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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6575	31.59	27.68	-24.42	34.85	54.00	19.15	131	63	Vertical
2	2484.04	41.75	27.87	-23.95	45.66	54.00	8.34	131	63	Vertical

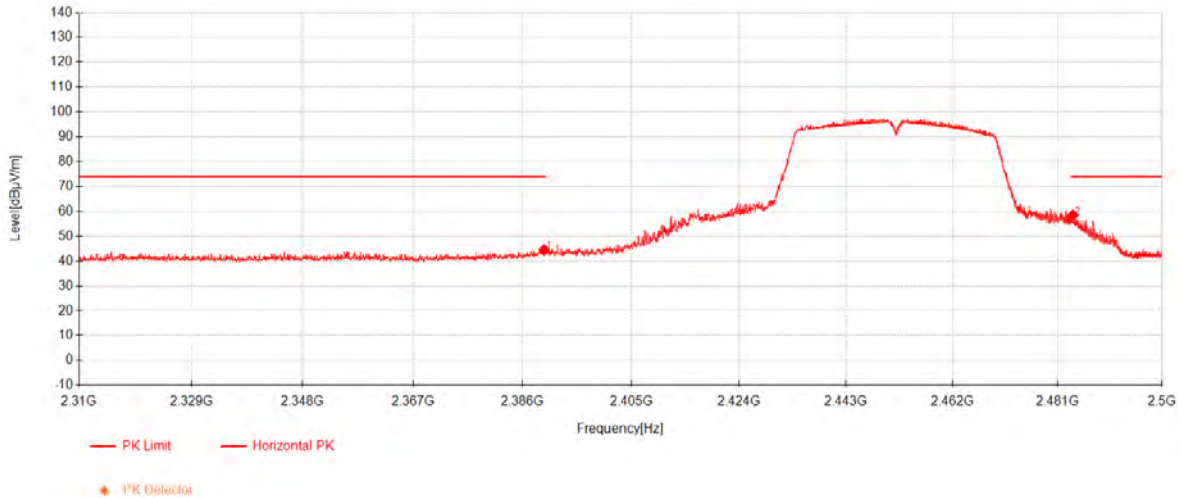


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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.755	41.31	27.68	-24.42	44.57	74.00	29.43	271	121	Horizontal
2	2483.785	54.53	27.87	-23.96	58.44	74.00	15.56	271	121	Horizontal

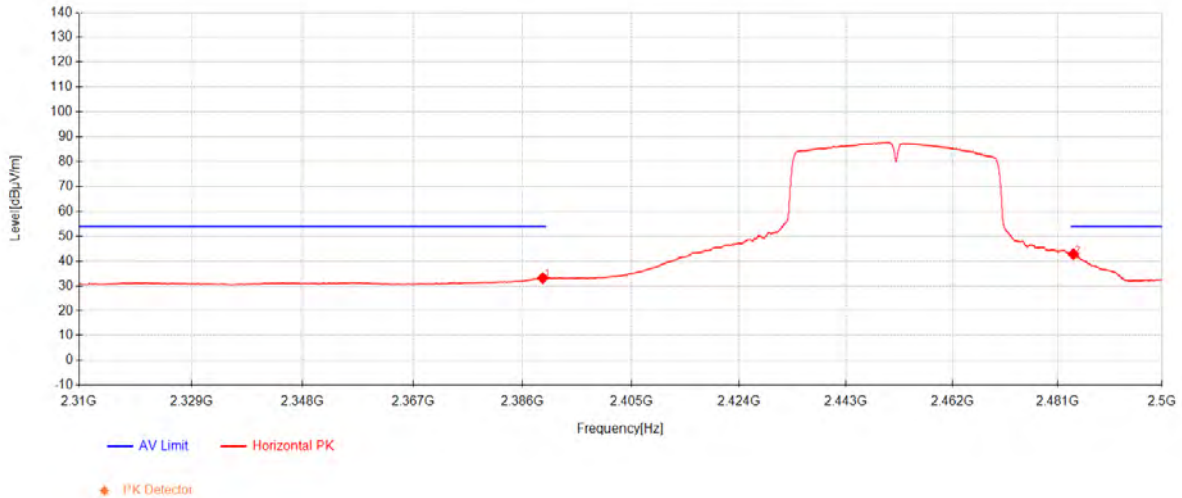


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802.11VHT 40\_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.5275	29.89	27.68	-24.42	33.15	54.00	20.85	271	121	Horizontal
2	2483.86	38.89	27.87	-23.96	42.80	54.00	11.20	271	121	Horizontal

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier gain. The basic equation with a sample calculation is as follows:  
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$   
 $AF = Antenna\ Factor(dB/m)$   
 $Factor = Cable\ Factor(dB) - Pre-amplifier\ gain(dB)$   
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---

