
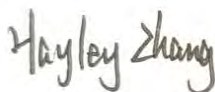


## TEST REPORT

**Application No.:** SUCR2411000455AT  
**Applicant:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Applicant:** Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China  
**Manufacturer:** Shanghai Sunmi Technology Co.,Ltd.  
**Address of Manufacturer:** Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China  
**EUT Description:** POS System  
**Model No.:** L15C1, L15D1-----♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** SUNMI  
**FCC ID:** 2AH25T3  
**Standards:** FCC 47 CFR Part 2, Subpart J  
FCC 47 CFR Part 15, Subpart C  
**Date of Receipt:** November 14, 2024  
**Date of Test:** November 20, 2024 to December 20, 2024  
**Date of Issue:** December 23, 2024

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

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above.



Prepared by: Hayley Zhang/ Project Manager

Approved by: Cloud Peng/  
Technical Manager

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

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Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		December 23, 2024		Original

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## 1 Test Summary

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

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## 2 General Information

### 2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

### 2.2 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

### 2.3 Test Facility

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

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

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

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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## 2.4 General Description of EUT

EUT Description:	POS System		
Model No.:	L15C1, L15D1		
Trade Mark:	SUNMI		
Hardware Version:	6225Coreboard_MB_V3.0		
Software Version:	1.0.0		
Power Supply:	24V		
Operation Frequency:	802.11b/g/n(HT20):		2412MHz to 2462MHz
	802.11n(HT40):		2422MHz to 2452MHz
Modulation Type:	802.11b:	DSSS (DBPSK, DQPSK, CCK)	
	802.11g/n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)	
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7		
Channel Spacing:	5MHz		
Smart System:	<input checked="" type="checkbox"/> SISO	802.11b/g/n	
	<input type="checkbox"/> MIMO	CDD: 802.11b/g/n: Tx & Rx	
		STBC: 802.11n: Tx & Rx	
		TXBF: 802.11n: Tx & Rx	
<input type="checkbox"/> Diversity	802.11b/g : Tx & Rx		
Antenna Type:	Internal Antenna		
Antenna Gain:	2.2dBi		
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable*:	1dB		
Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.			
Remark:			
1. The only difference between the two models is that L15C1 comes with a printer and L15D1 does not come with a printer, everything else is exactly the same. Based on the above differences, complete testing will be conducted for L15C1 model, while L15D1 model will only check EMC.			
2. 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)							
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)							
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)		Frequency for 802.11n (HT40)			
The Lowest channel		2412MHz		2422MHz			
The Middle channel		2437MHz		2437MHz			
The Highest channel		2462MHz		2452MHz			

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## 2.5 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	24
Remark: NV: Normal Voltage NT: Normal Temperature		

## 2.6 Description of Support Units

The EUT has been tested as an independent unit.

## 2.7 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)	/

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### 3 Test results and Measurement Data

#### 3.1 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 Internal Antenna and no consideration of replacement. The best case gain of the antenna is 2.2dBi.</p> <p><i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark:</i> <i>As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	

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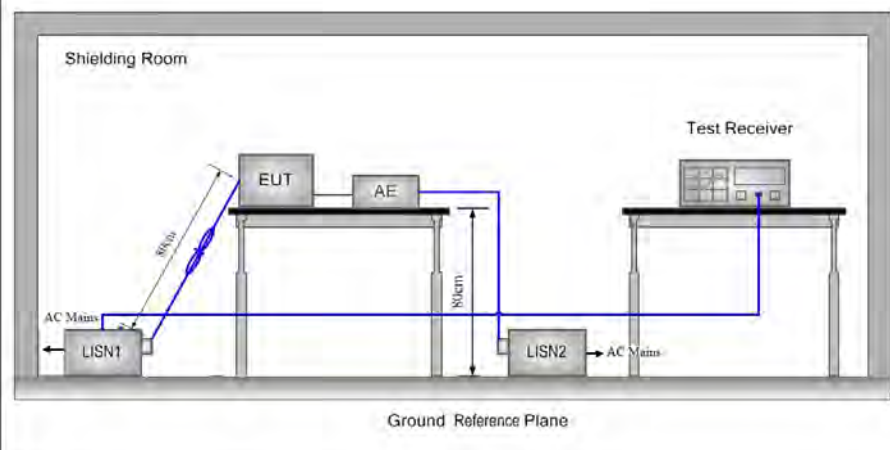
### 3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013 Section 6.2		
Test Frequency Range:	150kHz to 30MHz		
Receiver Setup:	RBW = 9kHz, VBW = 30kHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	<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 <math>50\Omega/50\mu\text{H} + 5\Omega</math> linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.</p> <p>3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,</p> <p>4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.</p>		

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

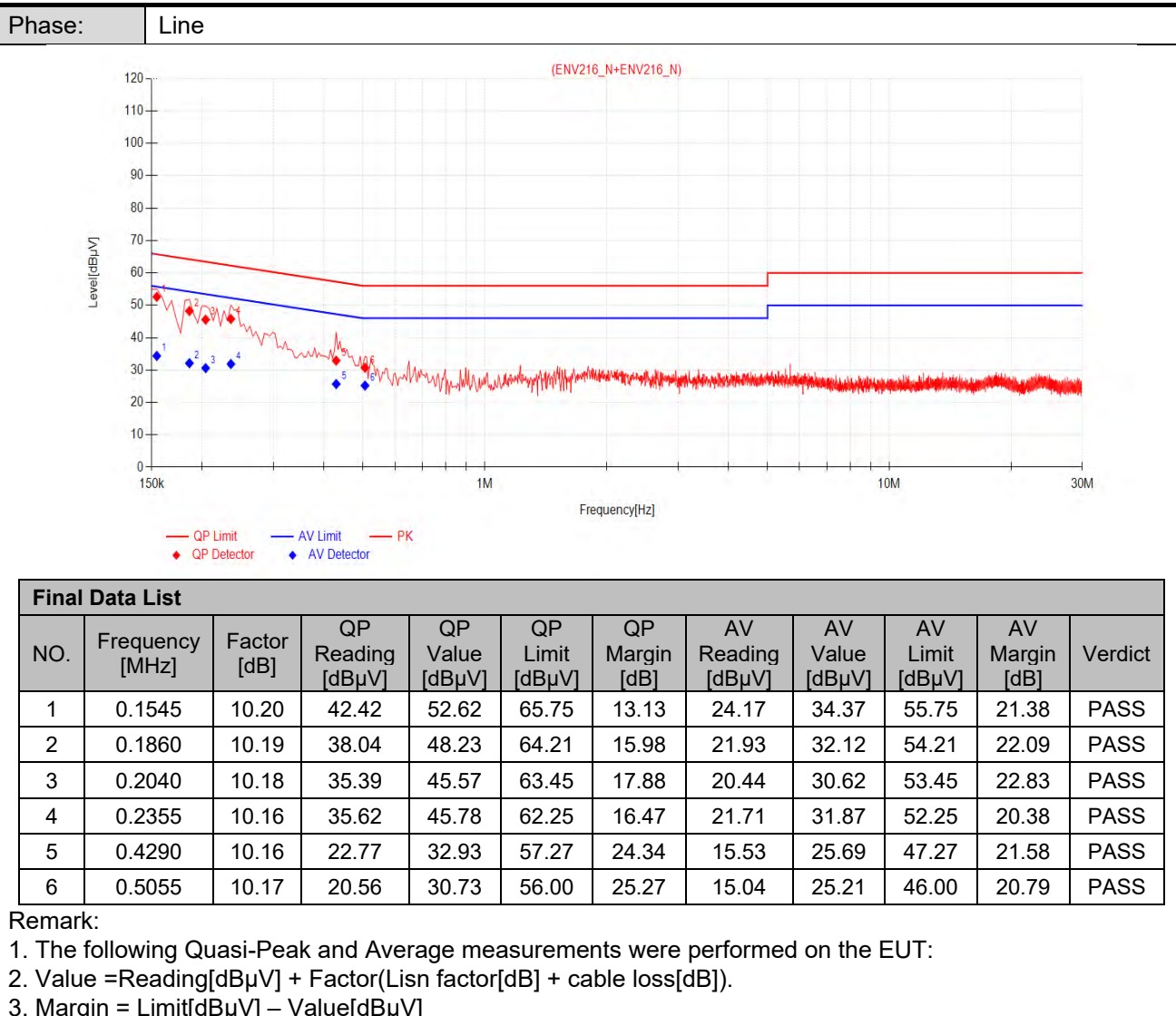
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### Measurement Data

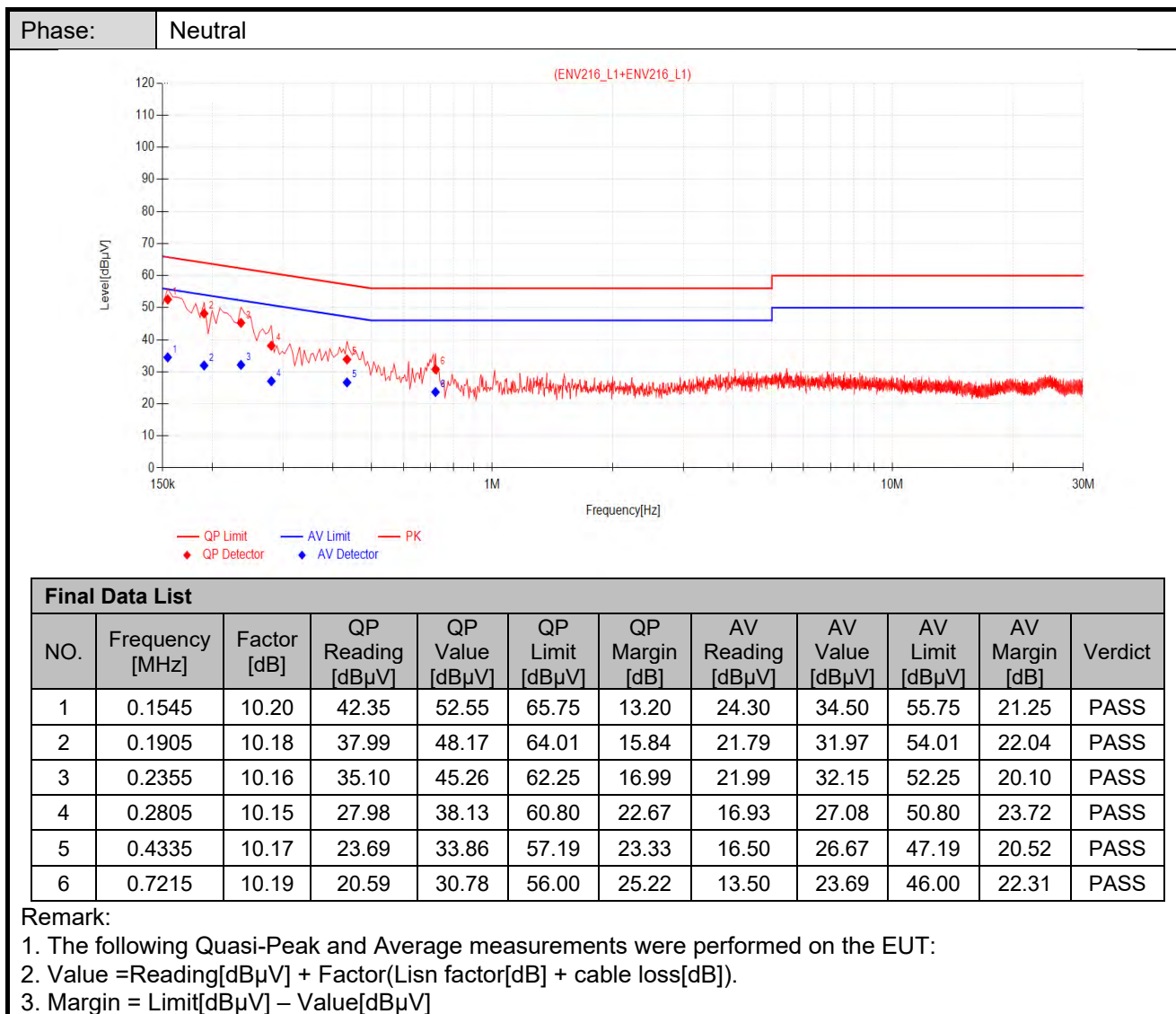
An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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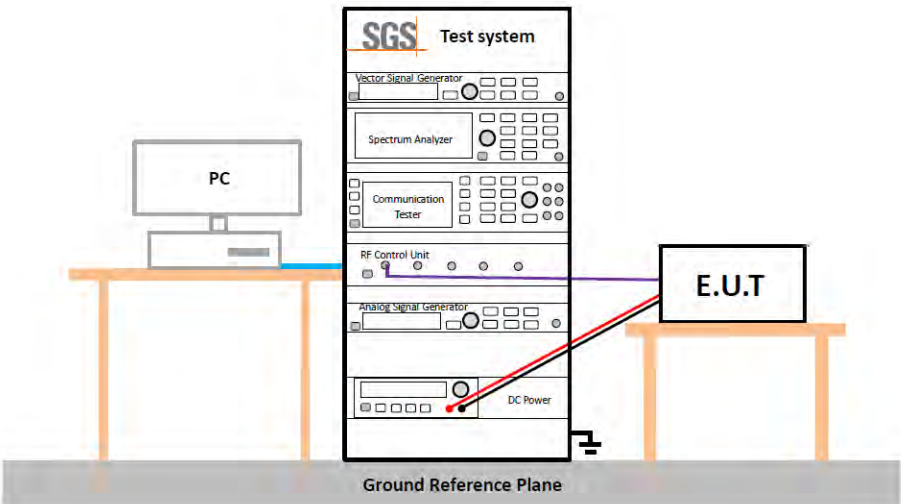


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### 3.3 Duty Cycle

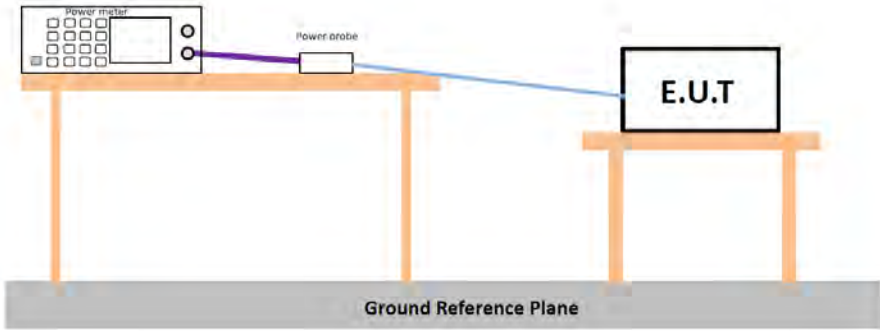
Test Requirement:	ANSI C63.10 :2013 Section 11.6
Test Method:	ANSI C63.10 :2013 Section 11.6
Test Setup:	
Instruments Used:	Refer to section 6 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	No restriction limits
Test Results:	For Report Purpose
The detailed test data see: <b>Appendix</b>	

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### 3.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section 11.9.1.3
Test Setup:	 <p>* Test with power meter (Detector function: Peak)</p>
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	30dBm
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

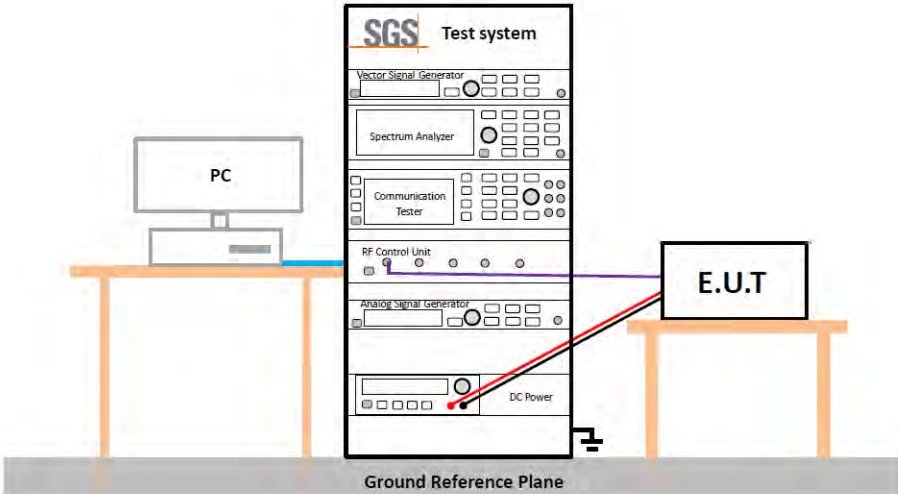
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### 3.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10: 2013 Section 11.8 Option 2 / 6.9.3
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\geq 500$ kHz for DTS Bandwidth
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

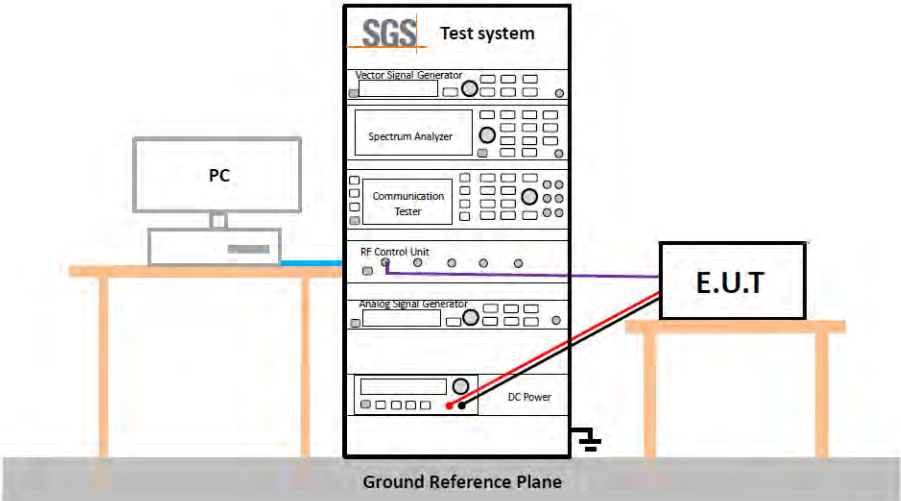
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### 3.6 Power Spectral Density

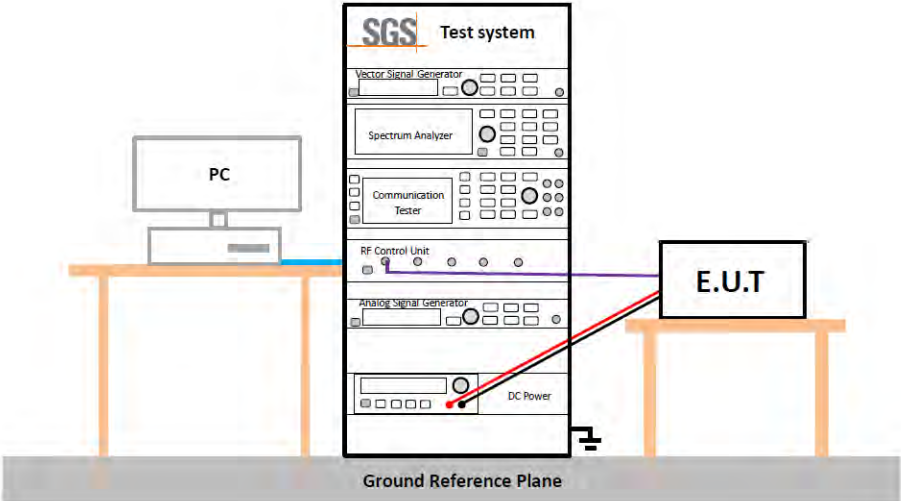
Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 :2013 Section 11.10.2
Test Setup:	
Test Instruments:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	$\leq 8.00\text{dBm}/3\text{kHz}$
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

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### 3.7 Band-edge for RF Conducted Emissions

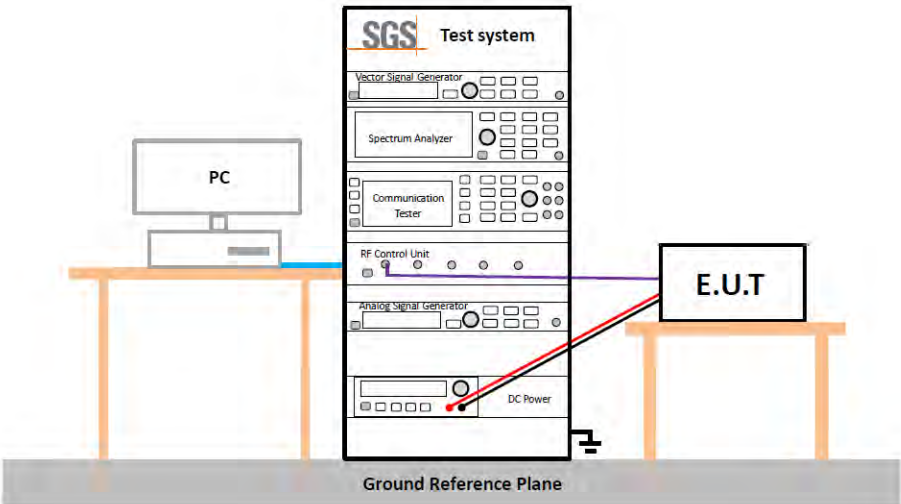
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Refer to section 3.7 for details.
Limit:	In any 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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### 3.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10: 2013 Section 11.11
Test Setup:	
Instruments Used:	Refer to section 6 for details.
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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## 3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Test Frequency:	9kHz ~ 25GHz				
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:

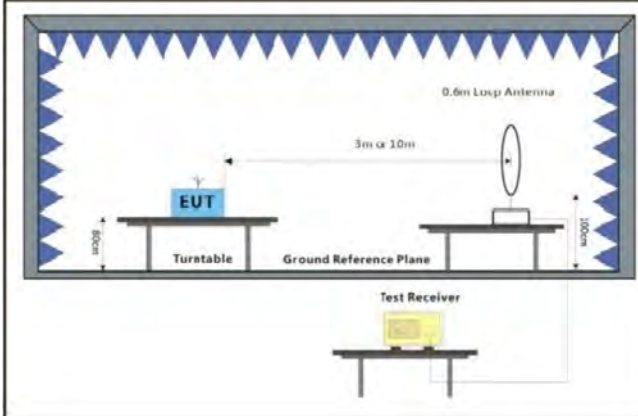


Figure 1. Below 30MHz

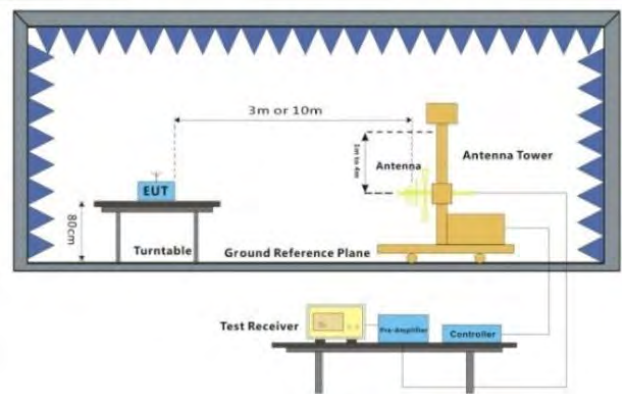


Figure 2. 30MHz to 1GHz

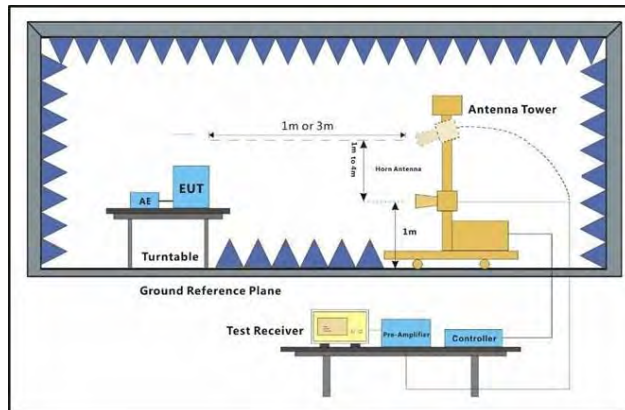


Figure 3. Above 1 GHz

### 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.

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	<p>e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by <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>

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Rev.: 01

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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Adapter + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: <b>Appendix</b>	

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### 3.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10: 2013 Section 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m)	Remark
	30MHz-88MHz	40.0	Quasi-peak
	88MHz-216MHz	43.5	Quasi-peak
	216MHz-960MHz	46.0	Quasi-peak
	960MHz-1GHz	54.0	Quasi-peak
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

#### Test Setup:

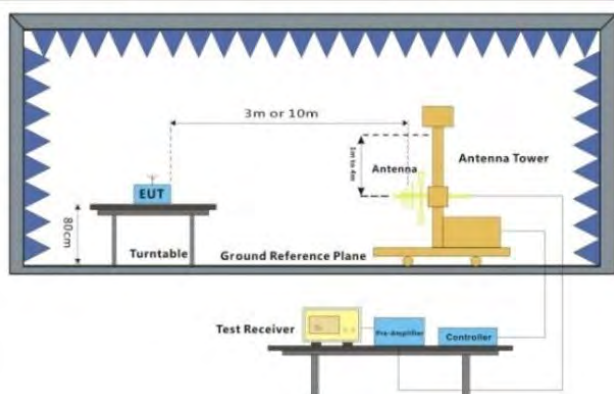


Figure 1. 30MHz to 1GHz

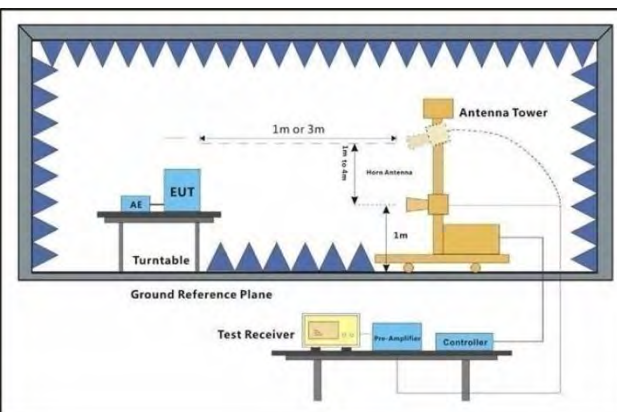


Figure 2. Above 1 GHz

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Test Procedure:	<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 X axis positioning which it is worse case.</li> <li>Repeat above procedures until all frequencies measured was complete.</li> </ol>
Test Configuration:	<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</math> 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 <math>\geq</math> 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>

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Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Adapter + 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>	

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## 4 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%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.80dB (30M -1GHz)
		± 4.80dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)
Remark: The U <sub>lab</sub> (lab Uncertainty) is less than U <sub>CISPR/ETSI</sub> (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		

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## 5 Equipment List

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

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CE Test System					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2/4/2024	2/3/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2/4/2024	2/3/2025
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2/4/2024	2/3/2025
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR

RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/18/2024	2/17/2025
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2024	5/7/2025
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2/1/2024	1/31/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2/1/2024	1/31/2025
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2/1/2024	1/31/2025
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2/1/2024	1/31/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.

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## 6 Photographs - Setup Photos

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

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## 7 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11b	SISO	2412	12.433	12.583	98.81	0.05	0.05
		2437	12.433	12.577	98.86	0.05	0.10
		2462	12.434	12.580	98.84	0.05	0.10
802.11g	SISO	2412	2.067	2.101	98.38	0.07	0.00
		2437	2.066	2.101	98.33	0.07	0.00
		2462	2.066	2.101	98.33	0.07	0.00
802.11n (HT20)	SISO	2412	1.926	1.961	98.22	0.08	0.00
		2437	1.926	1.960	98.27	0.08	0.03
		2462	1.926	1.961	98.22	0.08	0.00
802.11n (HT40)	SISO	2422	0.949	0.999	94.99	0.22	0.03
		2437	0.950	0.999	95.10	0.22	0.00
		2452	0.949	0.999	94.99	0.22	0.00

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## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	13.614	/	Pass
		2437	1	13.869	/	Pass
		2462	1	13.887	/	Pass
802.11g	SISO	2412	1	16.985	/	Pass
		2437	1	17.174	/	Pass
		2462	1	17.114	/	Pass
802.11n (HT20)	SISO	2412	1	18.009	/	Pass
		2437	1	18.149	/	Pass
		2462	1	18.142	/	Pass
802.11n (HT40)	SISO	2422	1	36.536	/	Pass
		2437	1	36.782	/	Pass
		2452	1	36.500	/	Pass

#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.705	$\geq 0.5$	Pass
		2437	1	8.731	$\geq 0.5$	Pass
		2462	1	8.741	$\geq 0.5$	Pass
802.11g	SISO	2412	1	16.339	$\geq 0.5$	Pass
		2437	1	16.526	$\geq 0.5$	Pass
		2462	1	16.398	$\geq 0.5$	Pass
802.11n (HT20)	SISO	2412	1	17.544	$\geq 0.5$	Pass
		2437	1	17.808	$\geq 0.5$	Pass
		2462	1	17.717	$\geq 0.5$	Pass
802.11n (HT40)	SISO	2422	1	36.112	$\geq 0.5$	Pass
		2437	1	36.300	$\geq 0.5$	Pass
		2452	1	35.937	$\geq 0.5$	Pass

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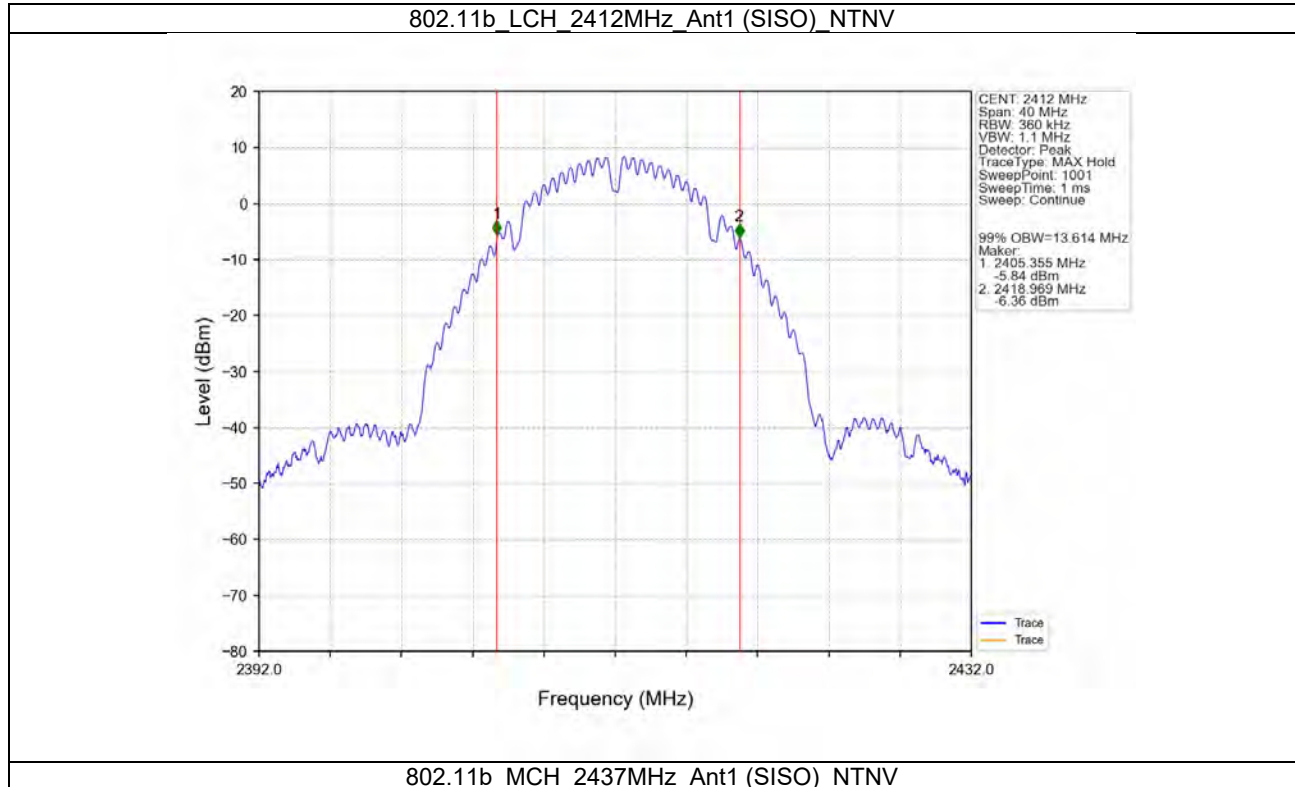
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## 2.2 Test Graph

### 2.2.1 OBW



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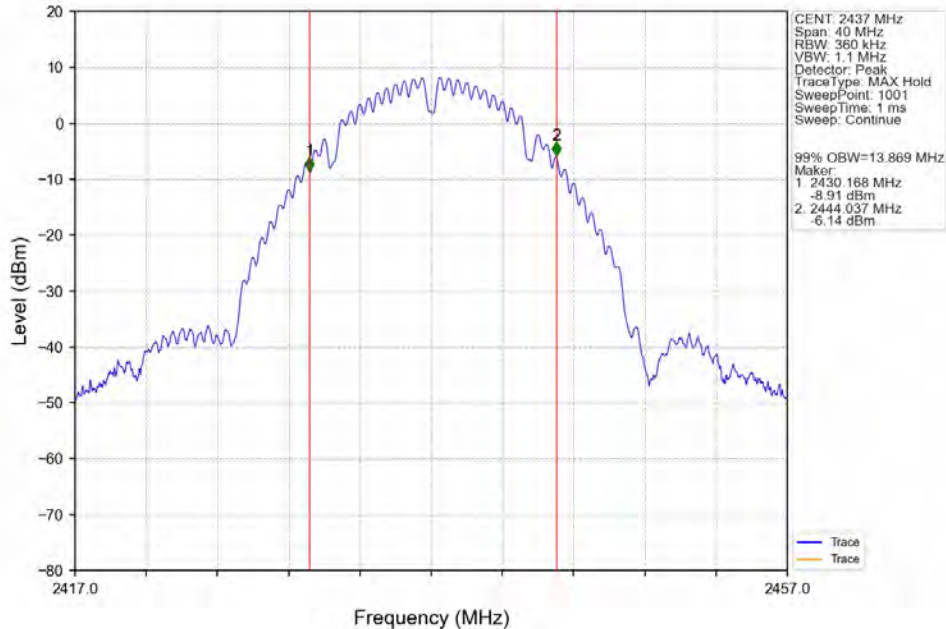
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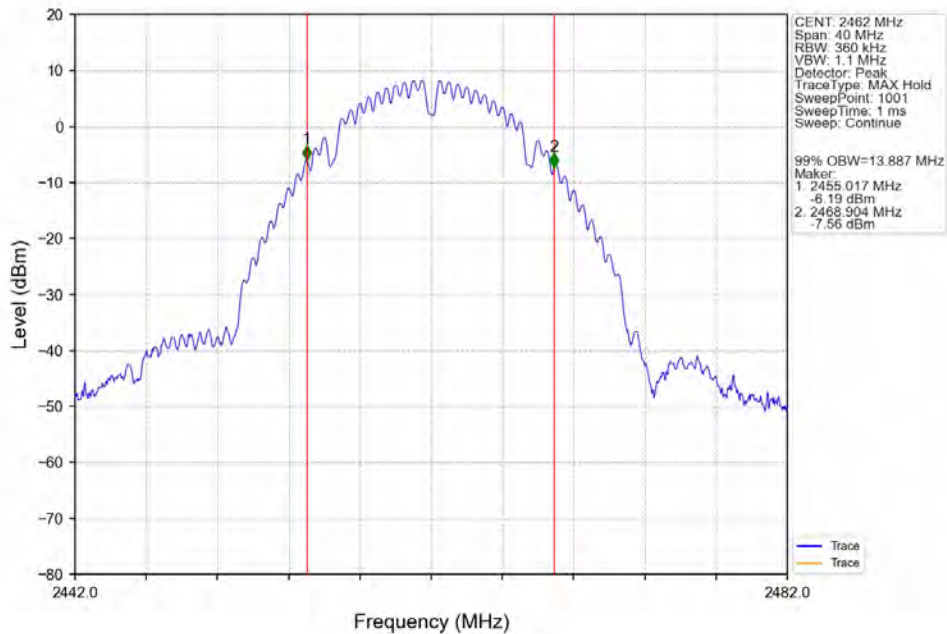


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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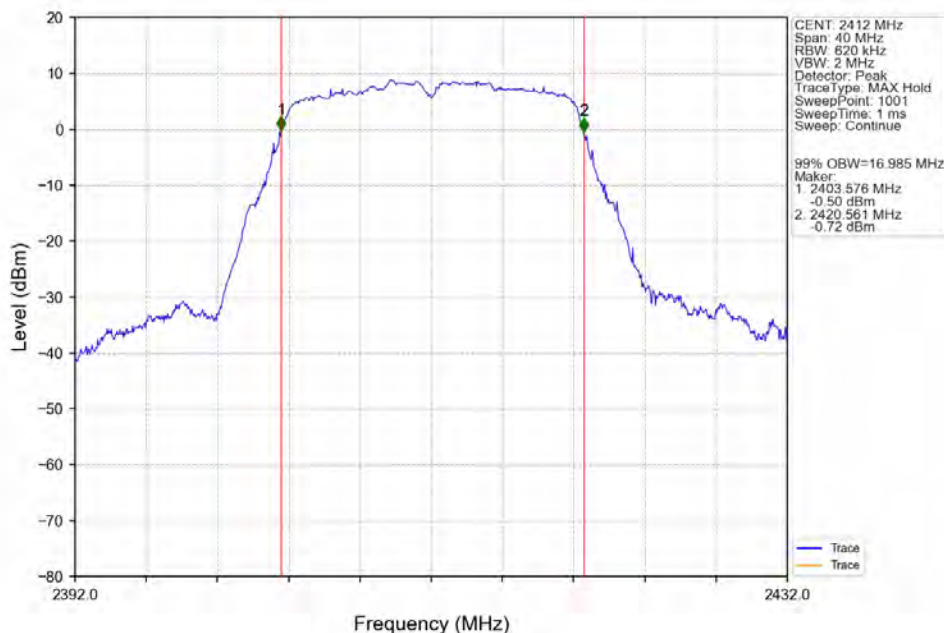
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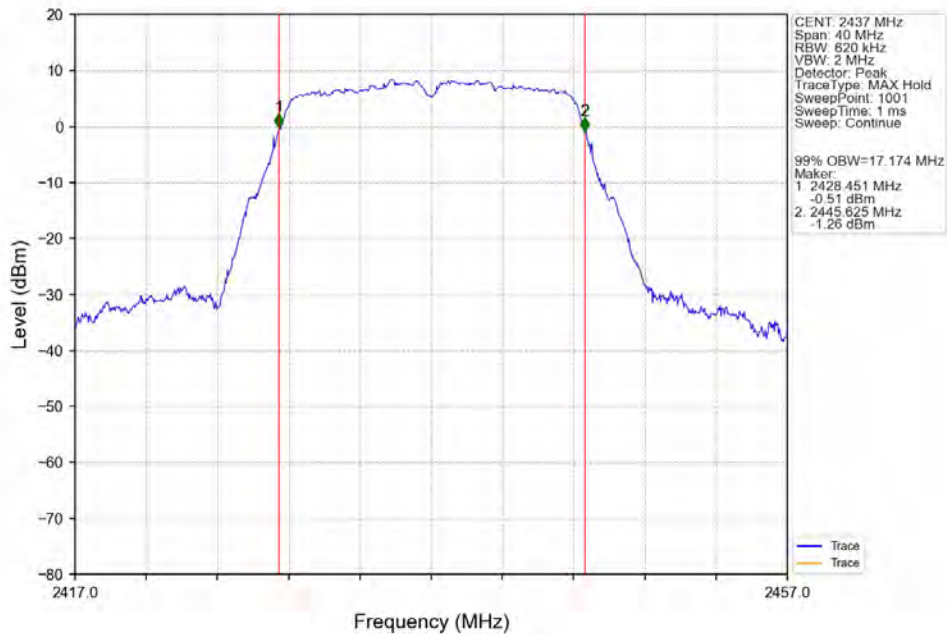


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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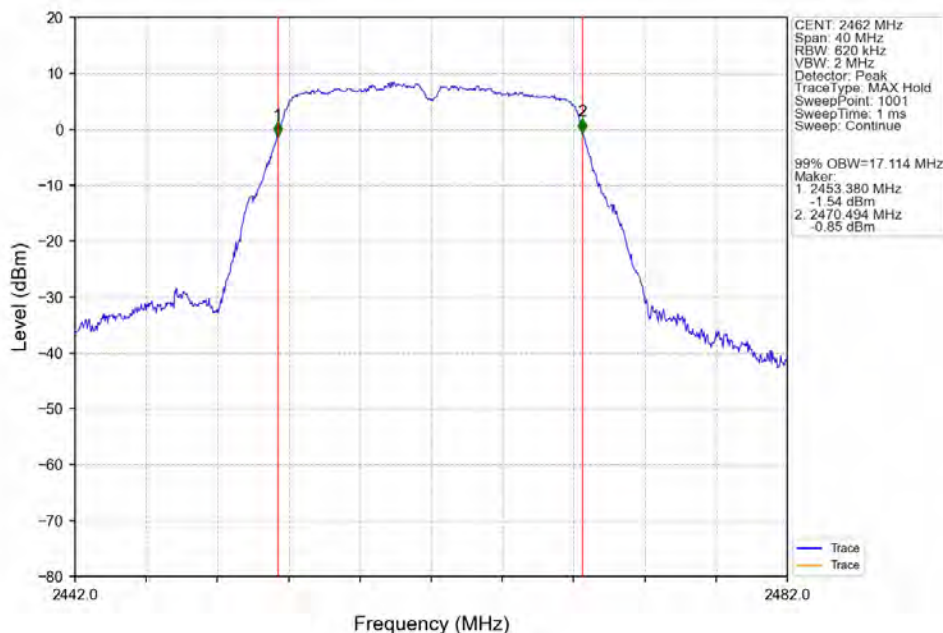
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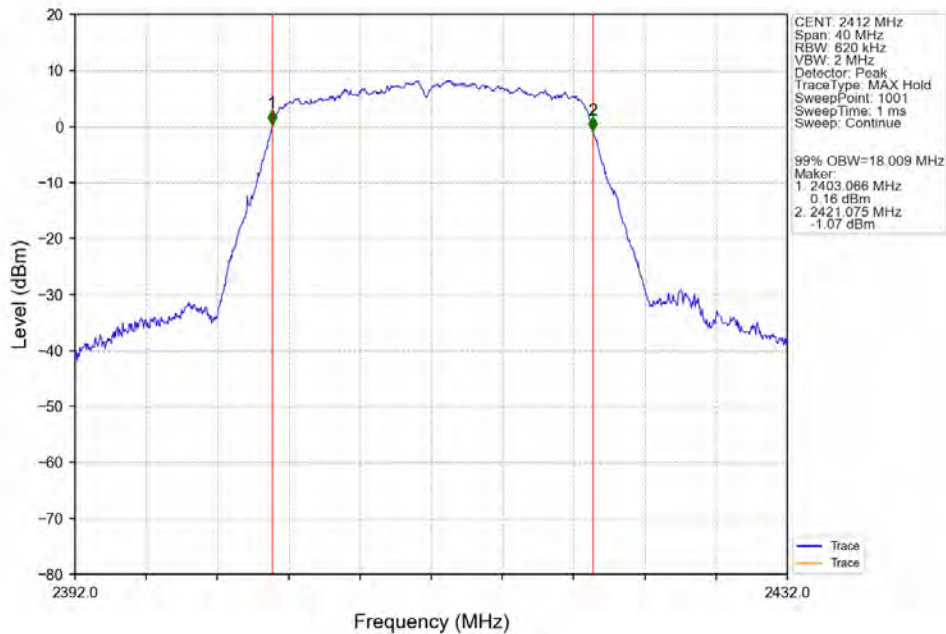


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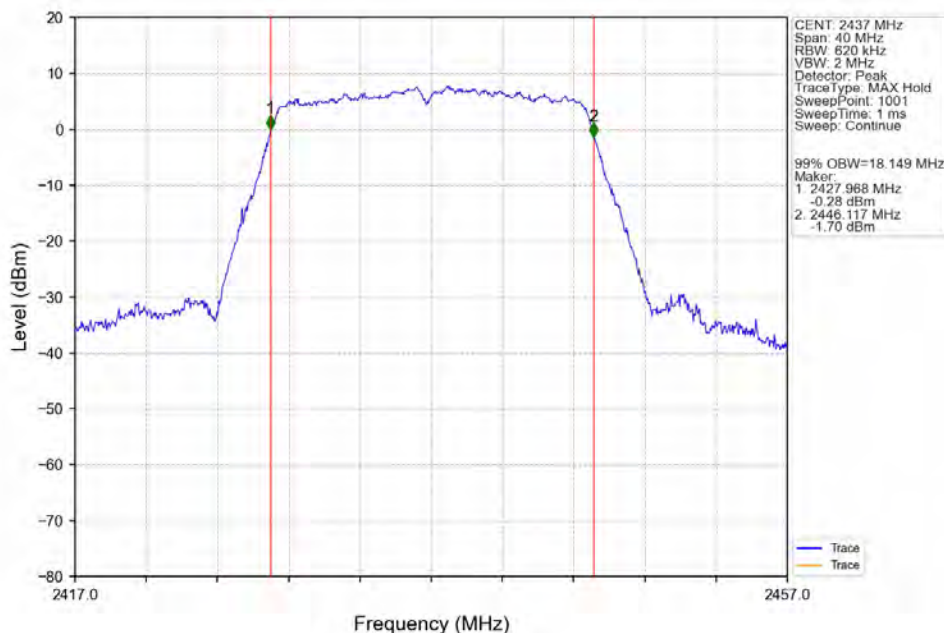
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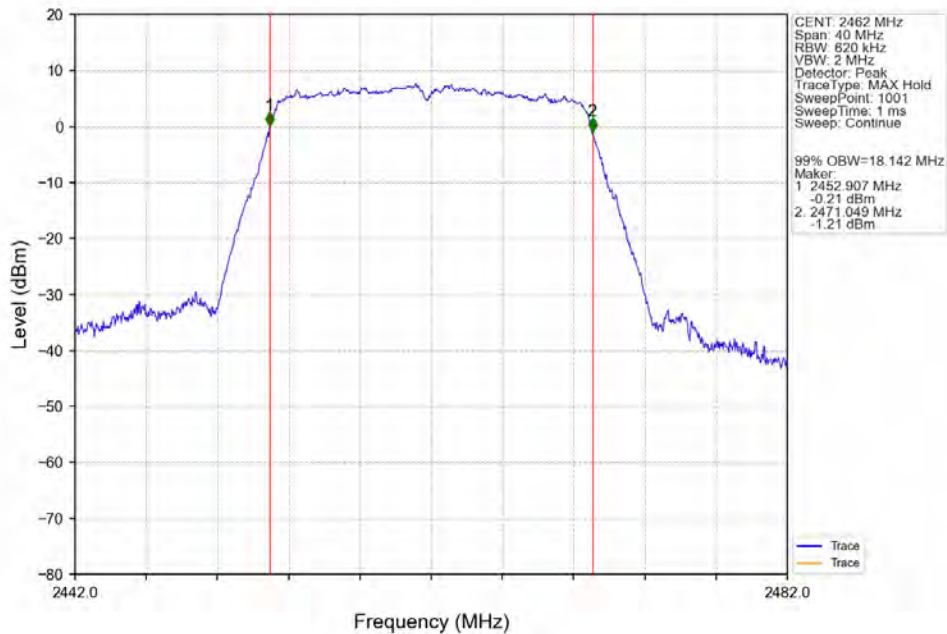
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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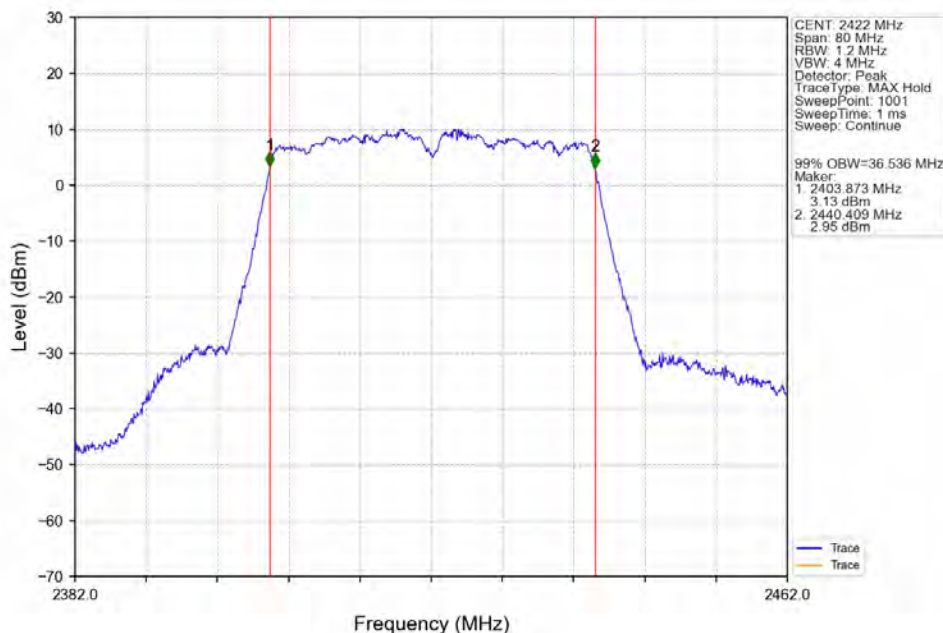
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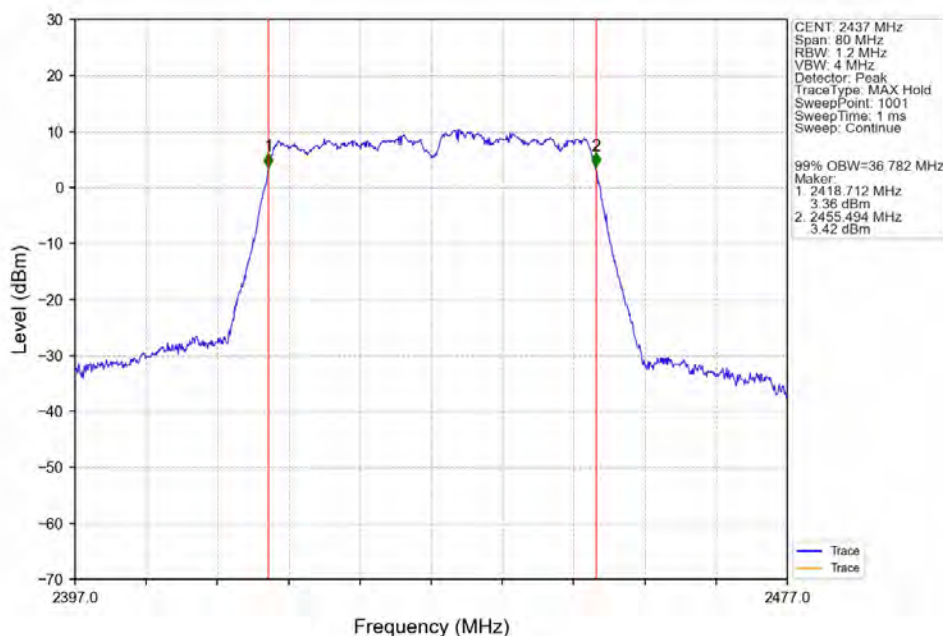


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

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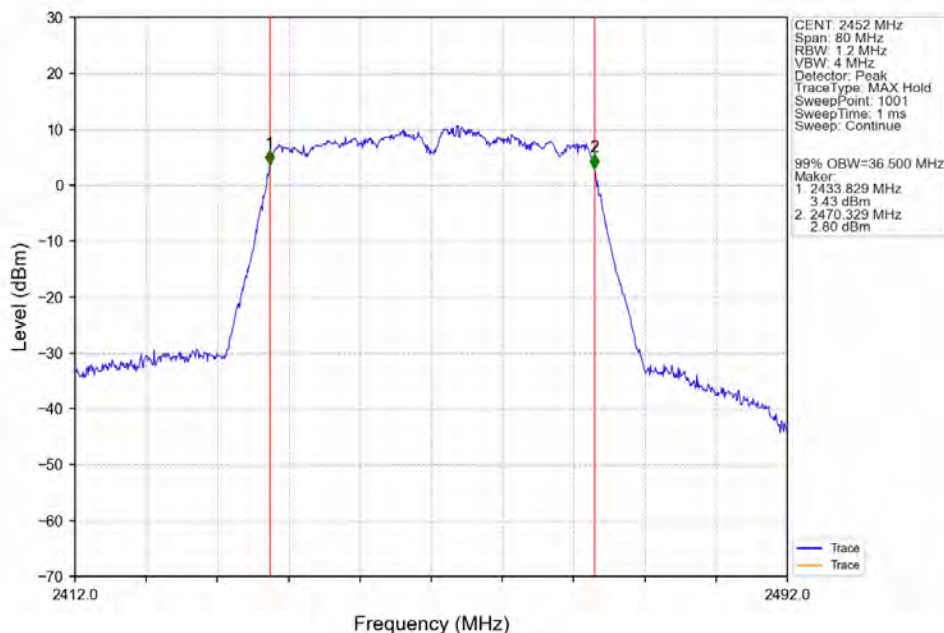
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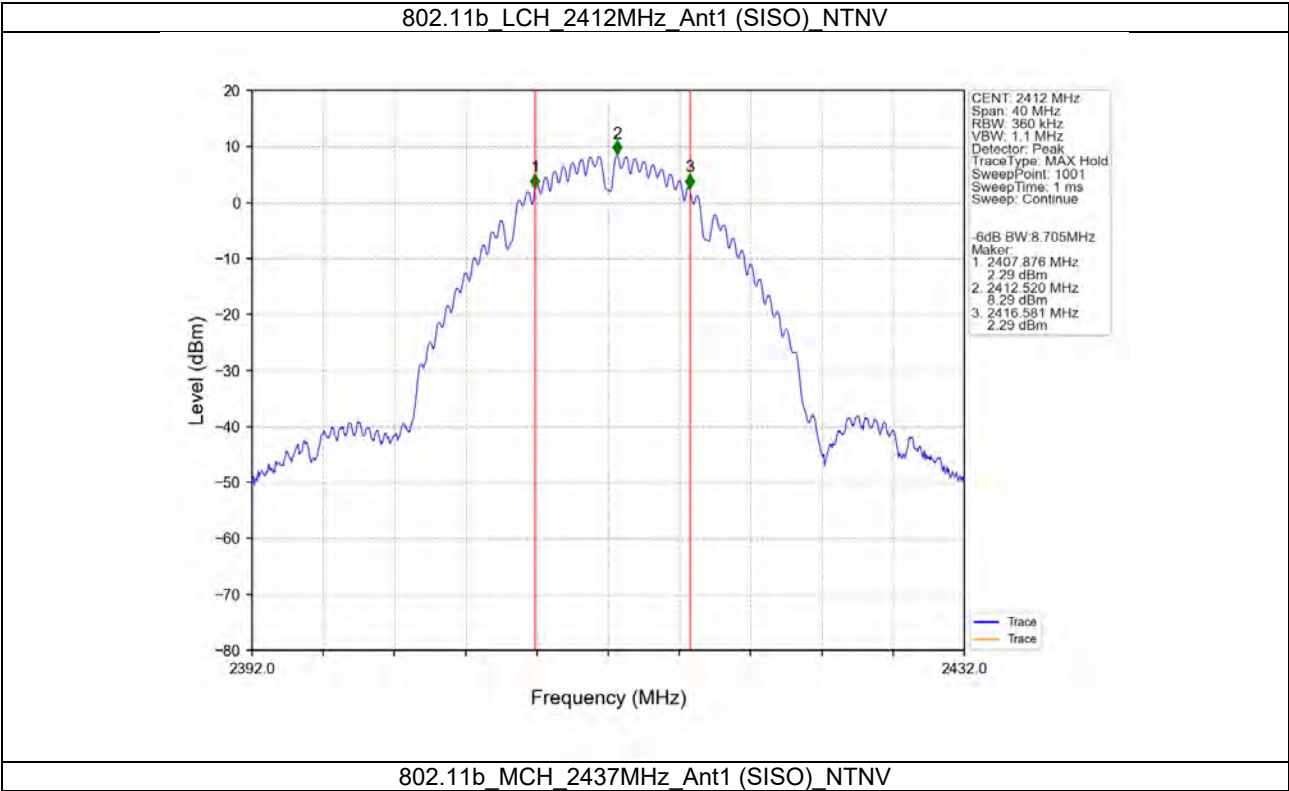


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### 2.2.2 6dB BW



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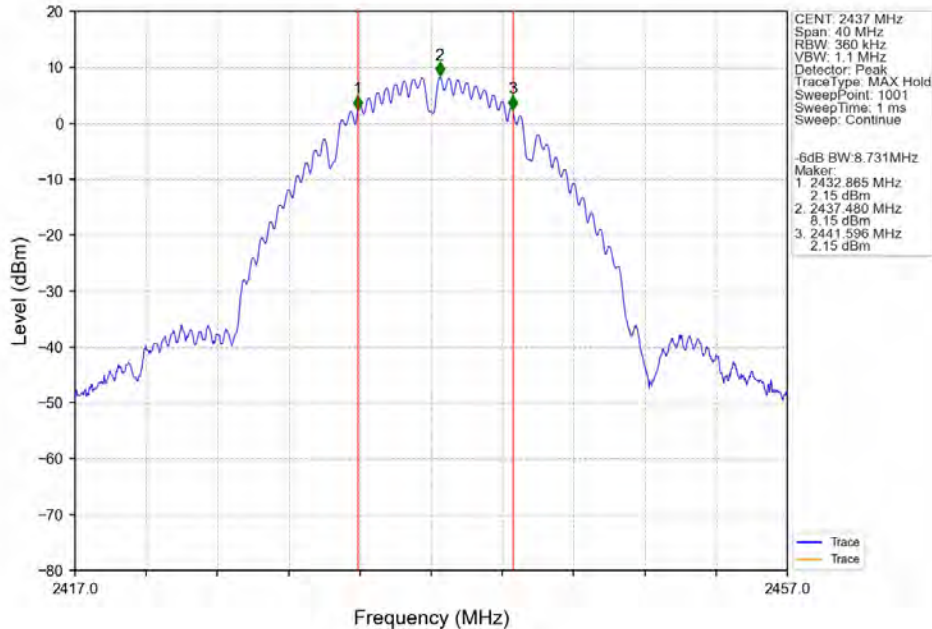
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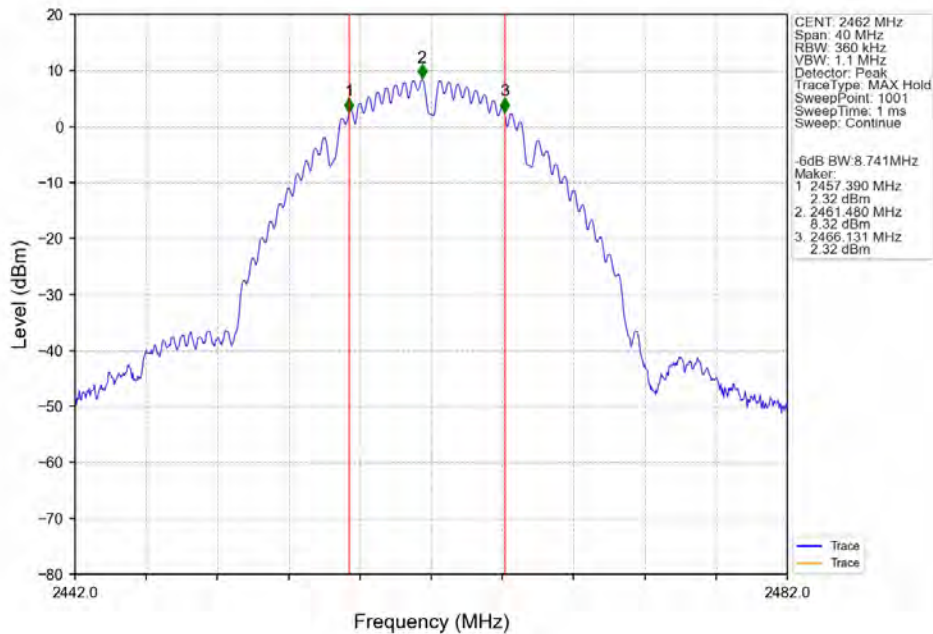


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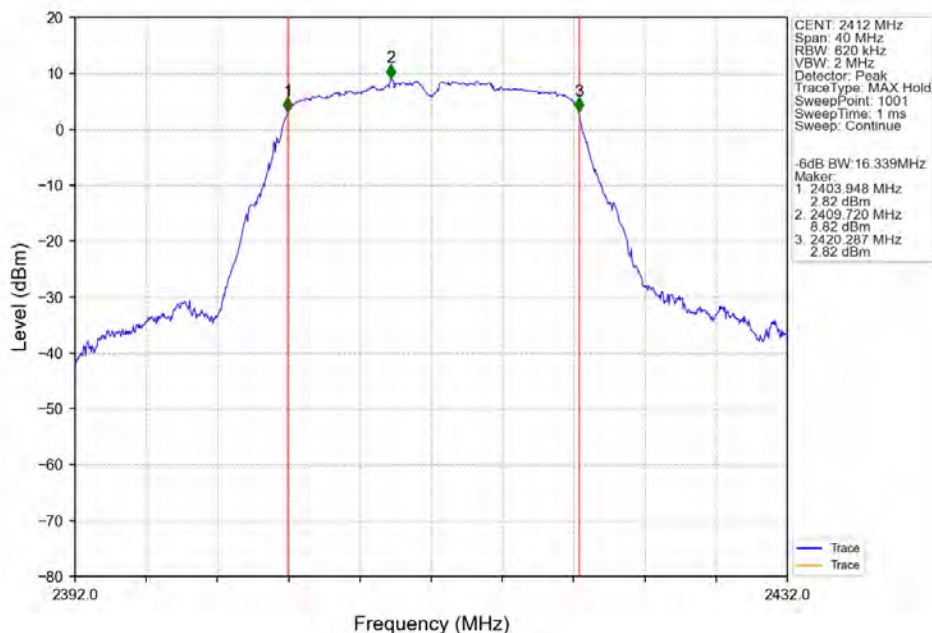
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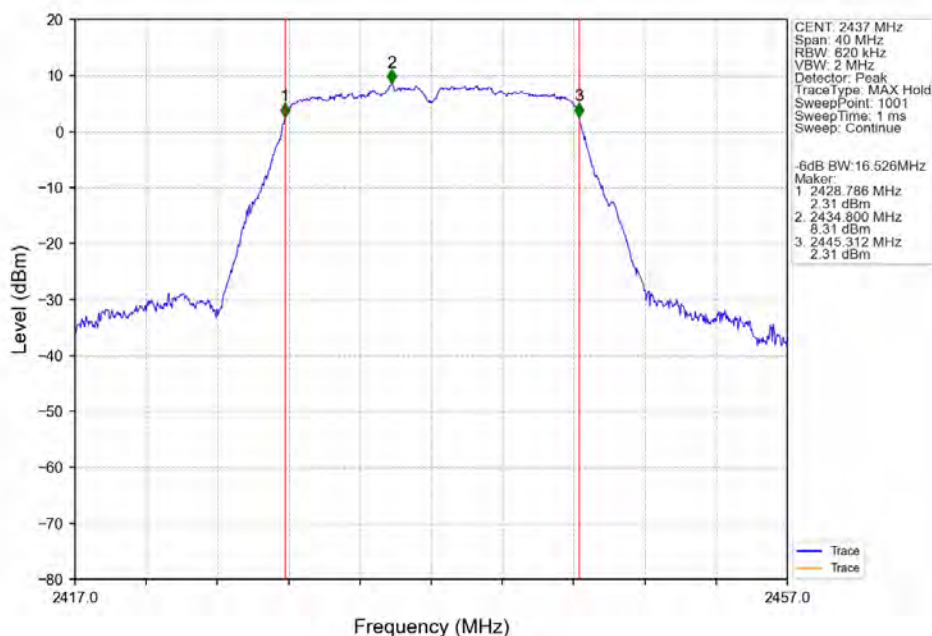


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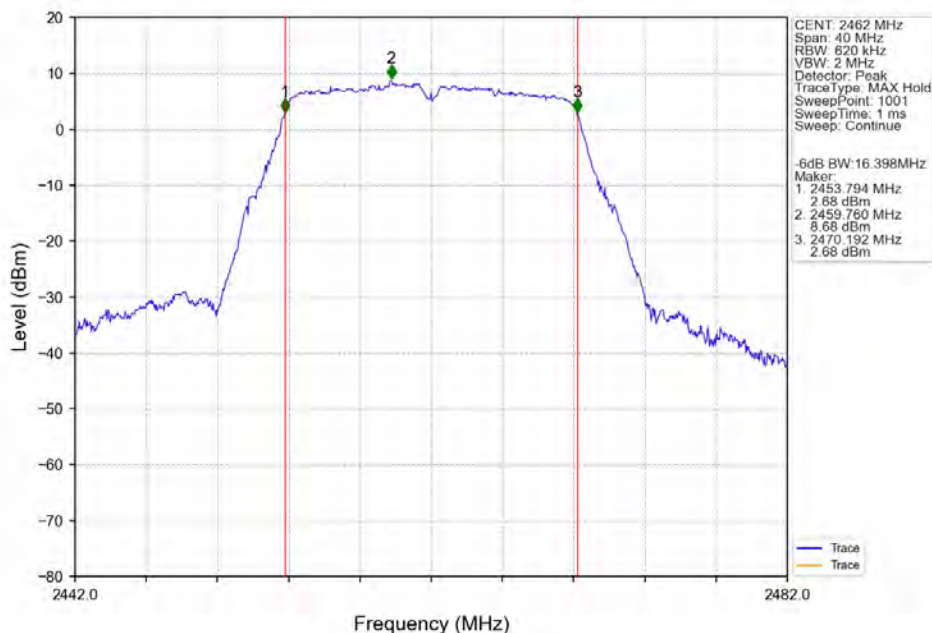
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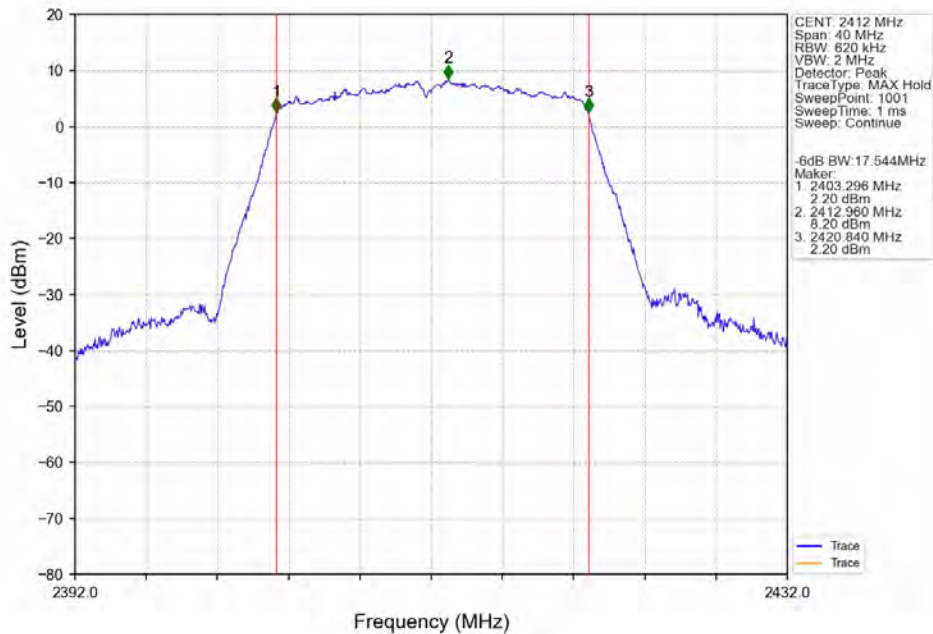


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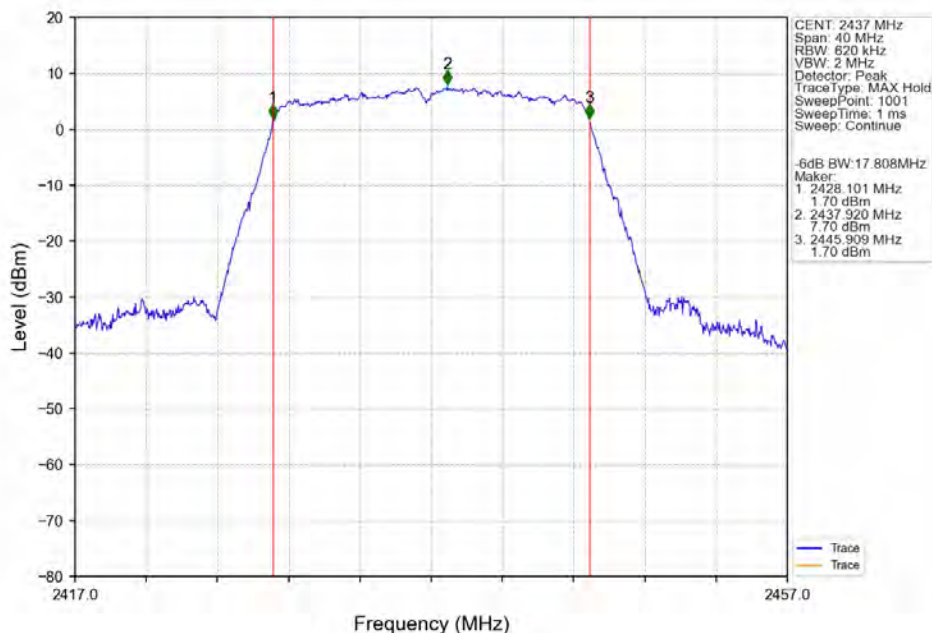
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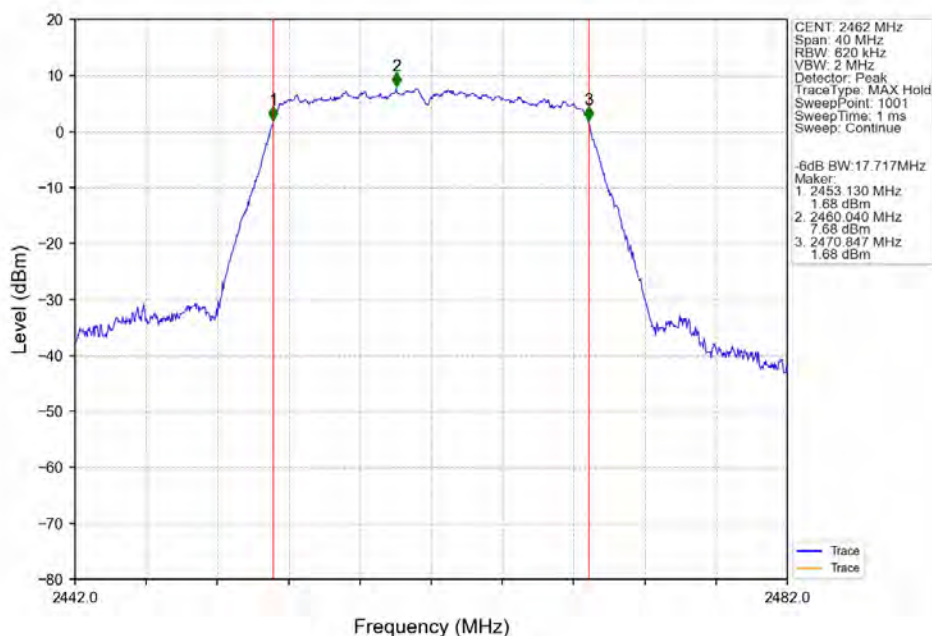


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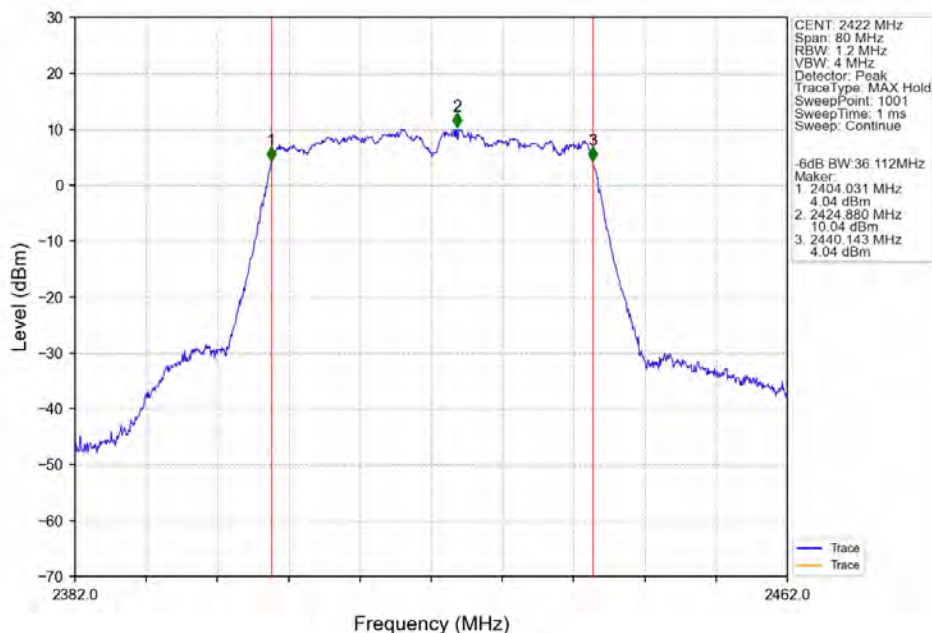


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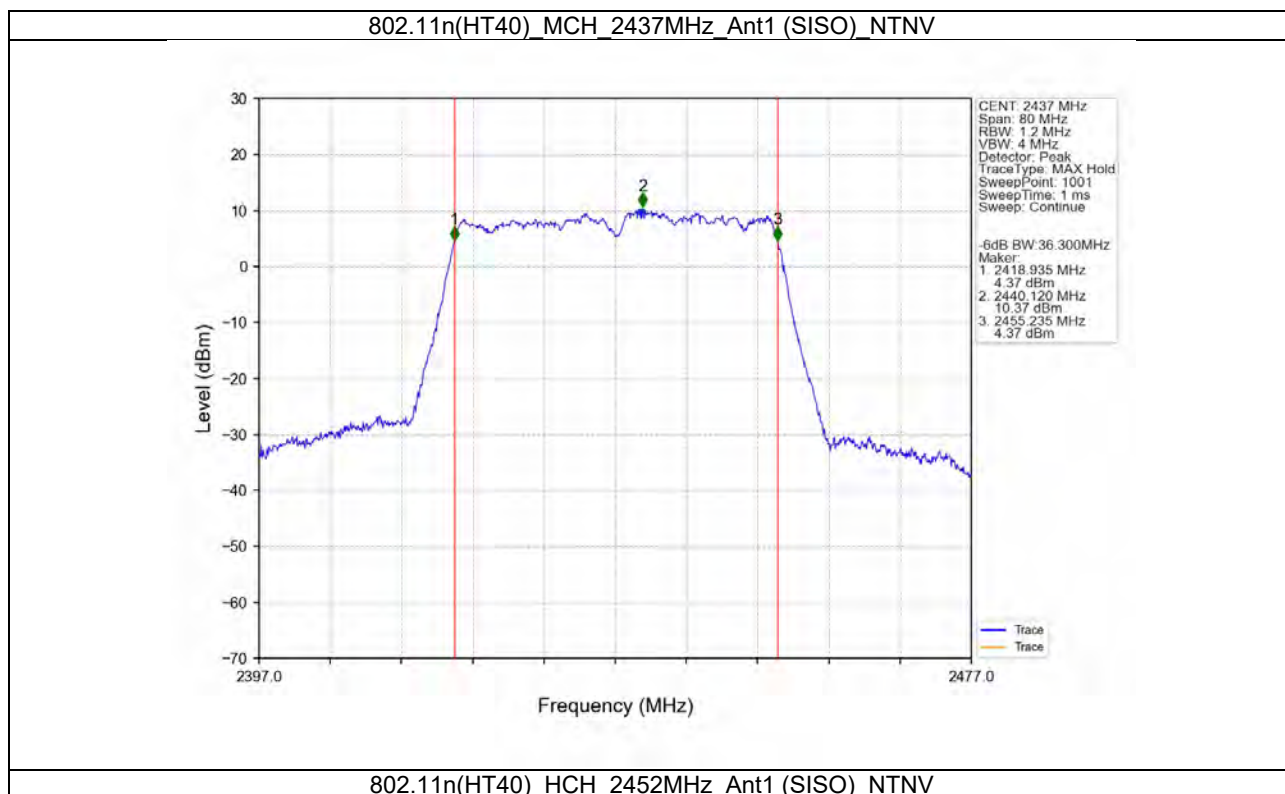


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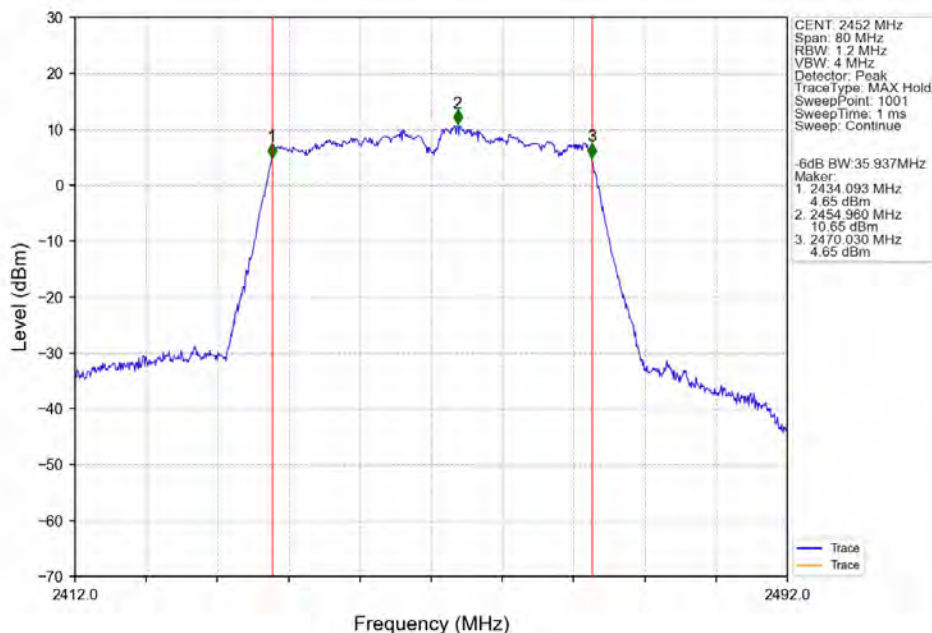
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## 3. Maximum Conducted Output Power

### 3.1 Test Result

#### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	18.62	<=30	Pass
		2437	18.46	<=30	Pass
		2462	18.58	<=30	Pass
802.11g	SISO	2412	19.67	<=30	Pass
		2437	19.41	<=30	Pass
		2462	19.42	<=30	Pass
802.11n (HT20)	SISO	2412	19.00	<=30	Pass
		2437	18.79	<=30	Pass
		2462	18.85	<=30	Pass
802.11n (HT40)	SISO	2422	19.96	<=30	Pass
		2437	20.19	<=30	Pass
		2452	19.96	<=30	Pass

Note1: Antenna Gain: Ant1: 2.20dBi;

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

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### 4. Maximum Power Spectral Density

#### 4.1 Test Result

##### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
802.11b	SISO	2412	-10.27	<=8	Pass
		2437	-9.68	<=8	Pass
		2462	-9.07	<=8	Pass
802.11g	SISO	2412	-13.10	<=8	Pass
		2437	-12.10	<=8	Pass
		2462	-13.38	<=8	Pass
802.11n (HT20)	SISO	2412	-14.00	<=8	Pass
		2437	-13.56	<=8	Pass
		2462	-14.50	<=8	Pass
802.11n (HT40)	SISO	2422	-13.94	<=8	Pass
		2437	-14.77	<=8	Pass
		2452	-15.08	<=8	Pass

Note1: Antenna Gain: Ant1: 2.20dBi;

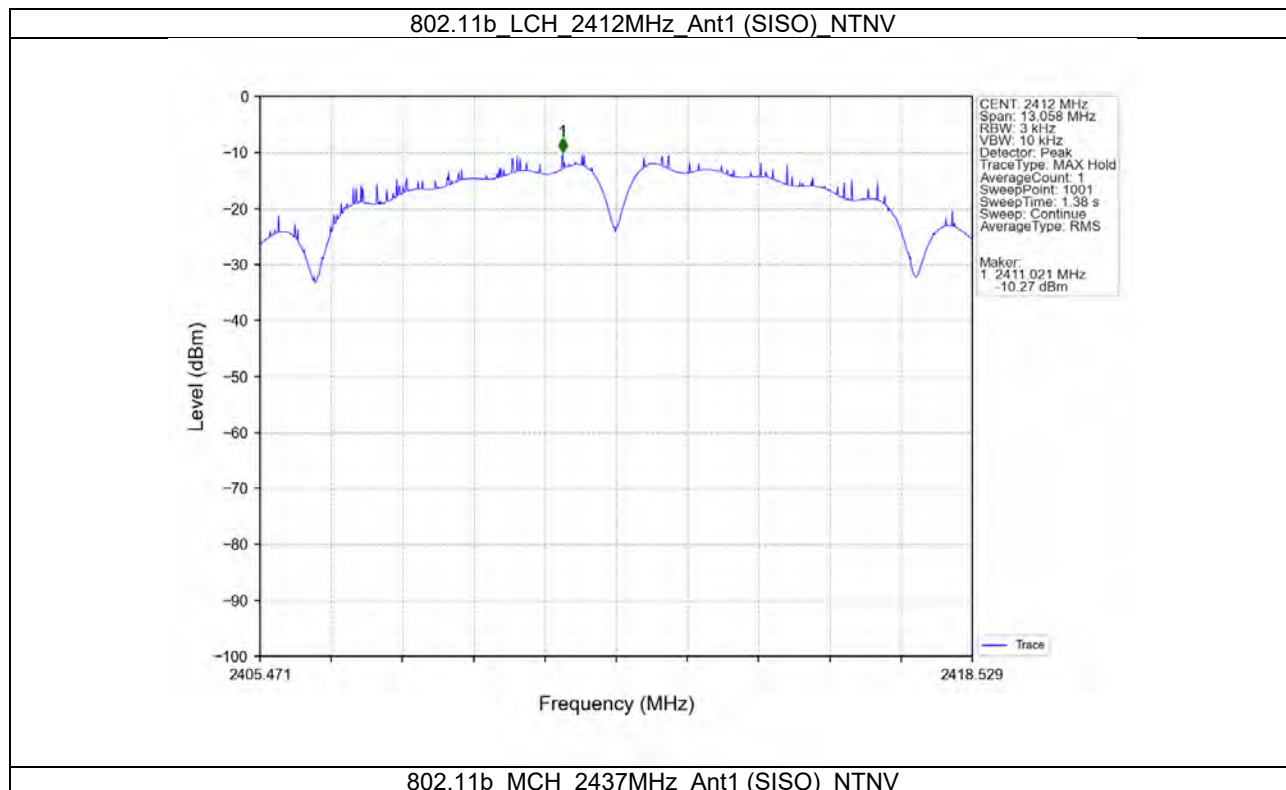
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### 4.2 Test Graph

#### 4.2.1 PSD



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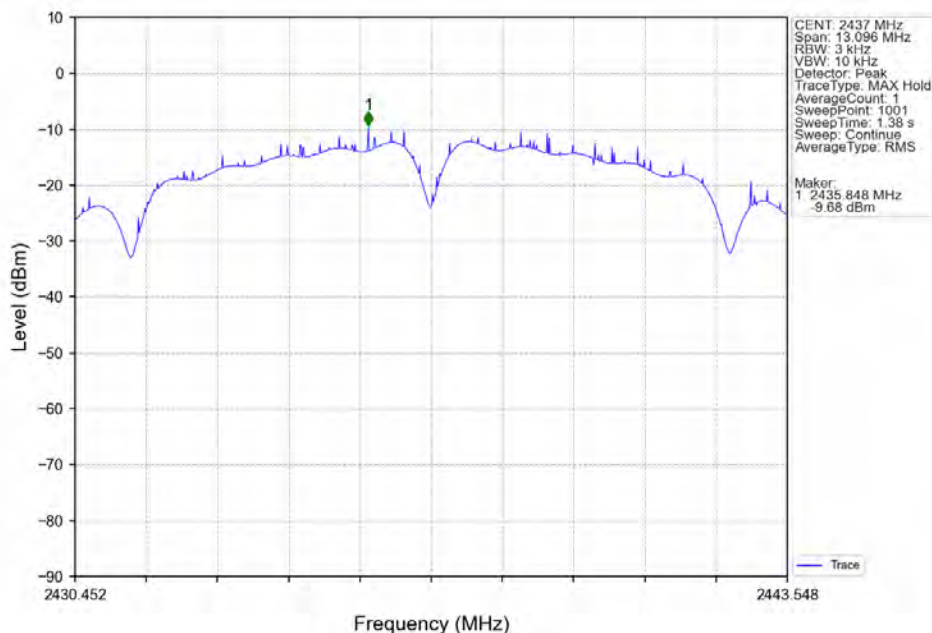
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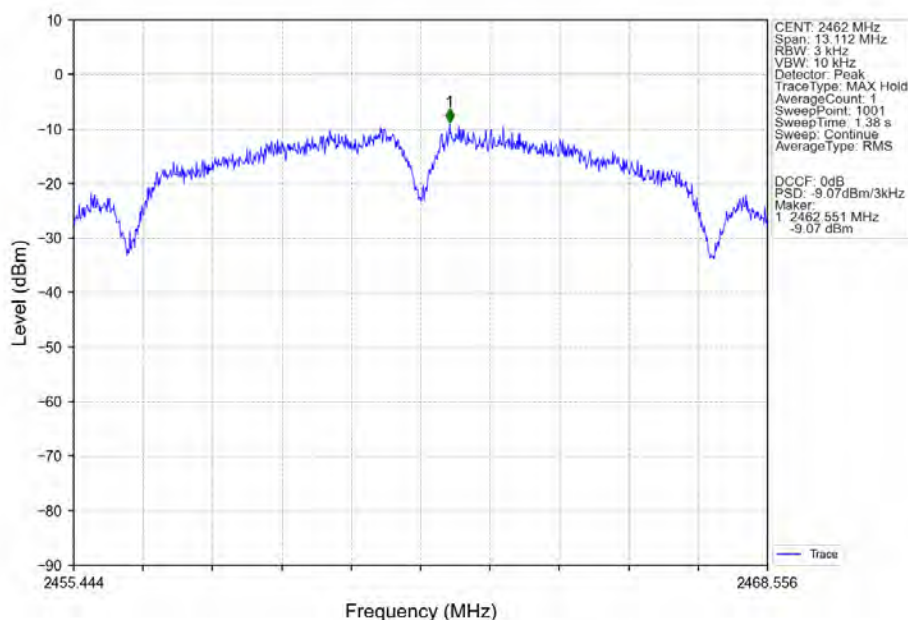
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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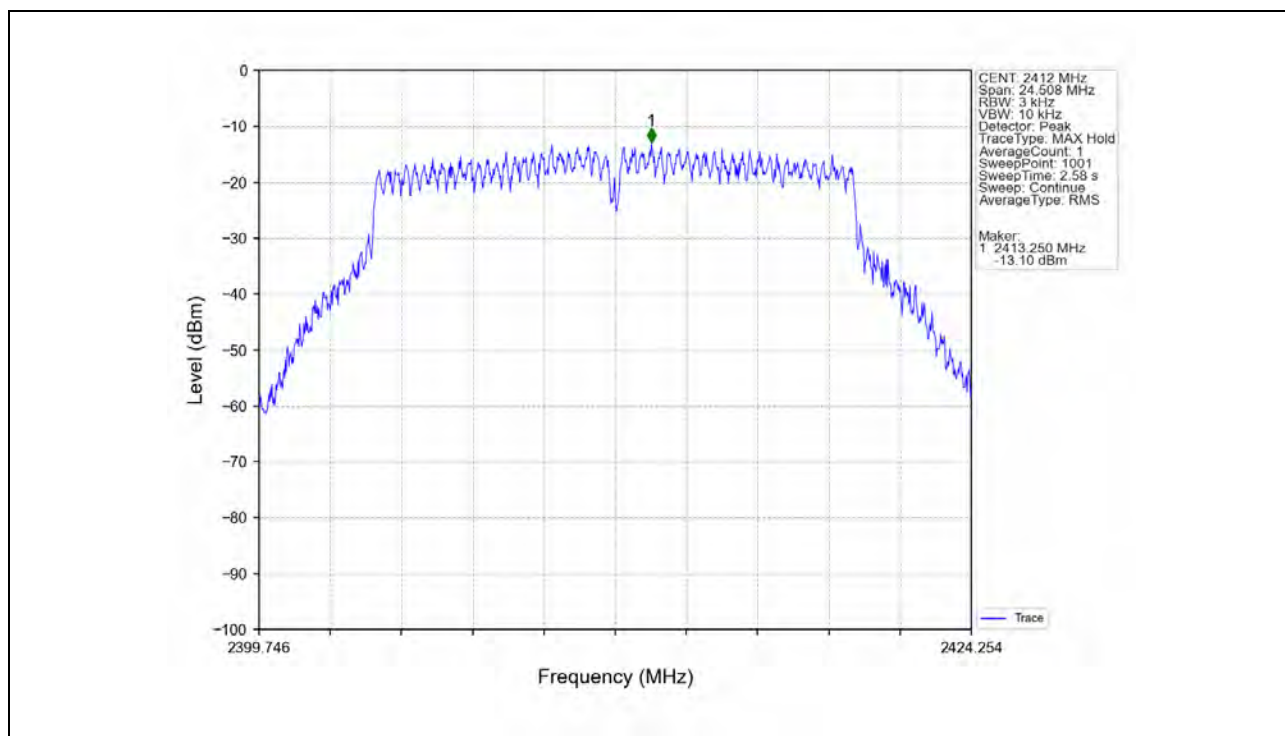
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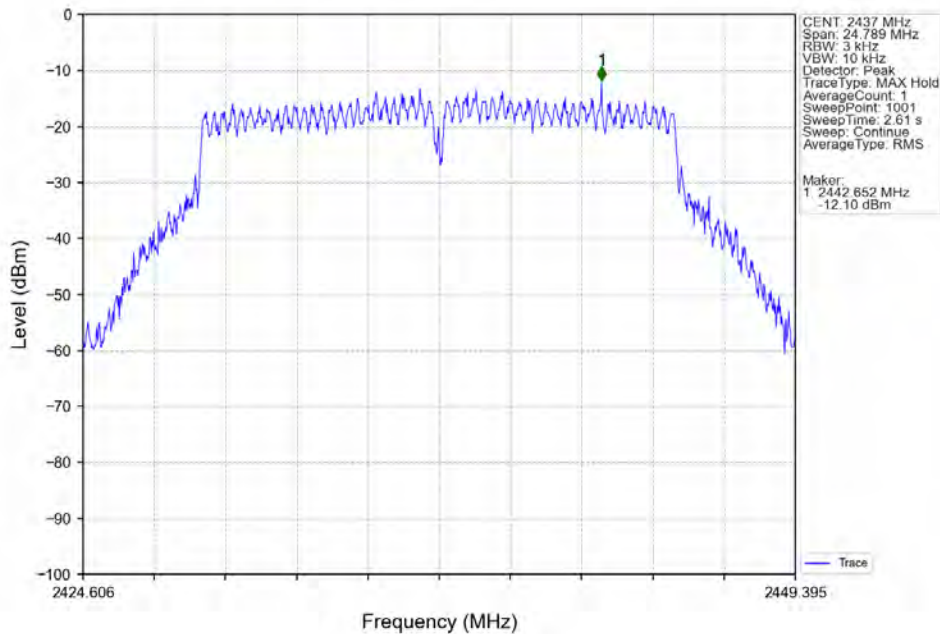


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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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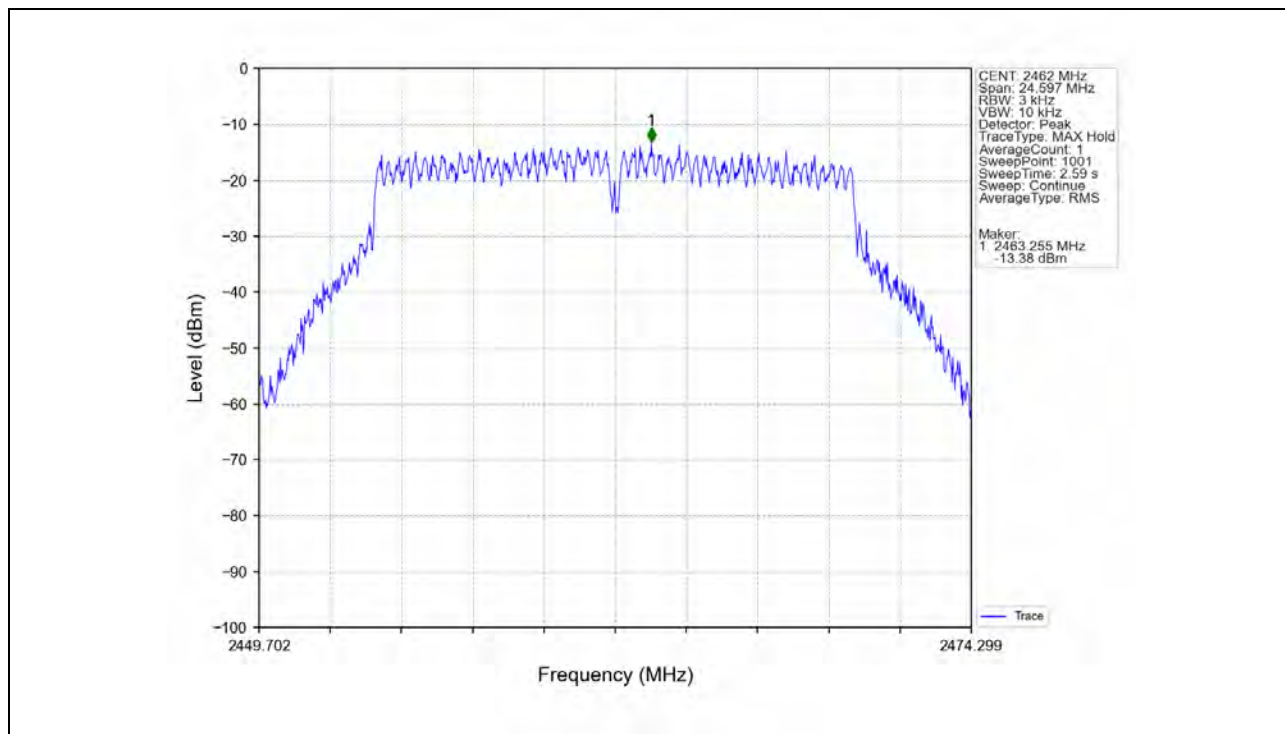
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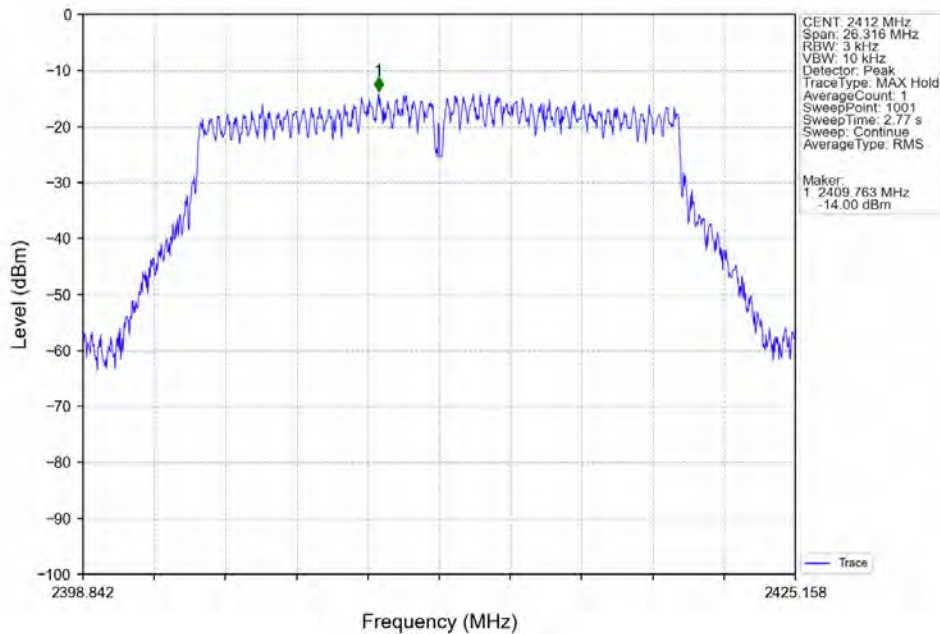


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802.11n(HT20) LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20) MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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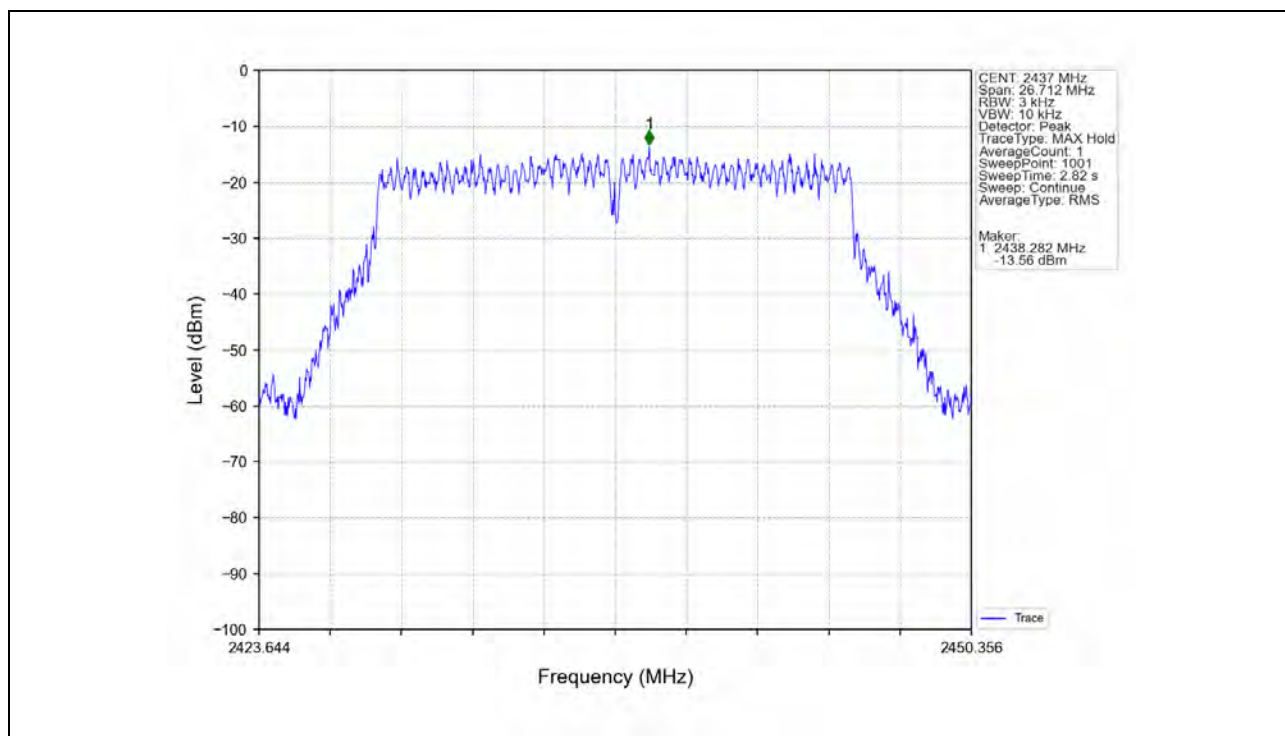
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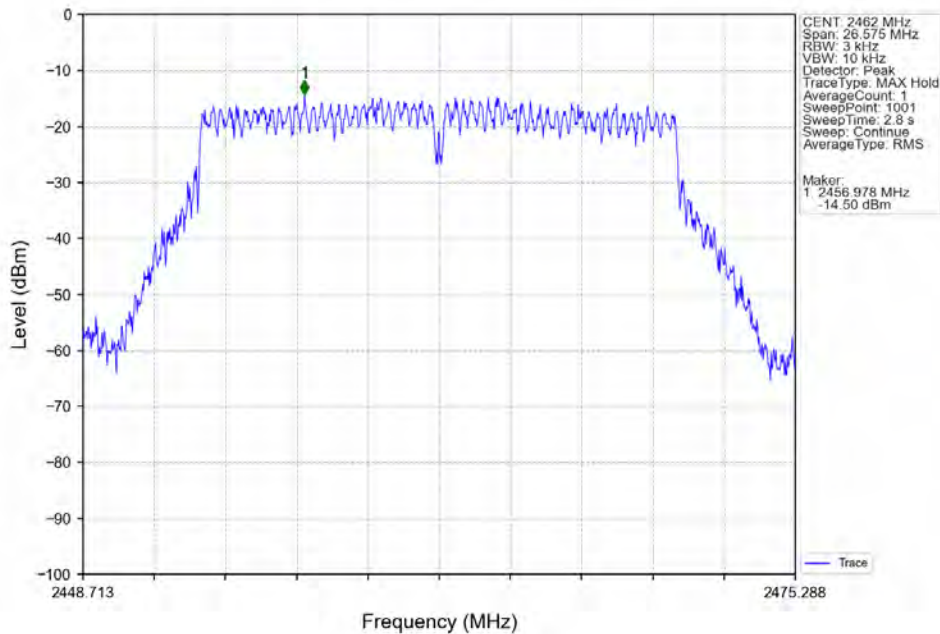


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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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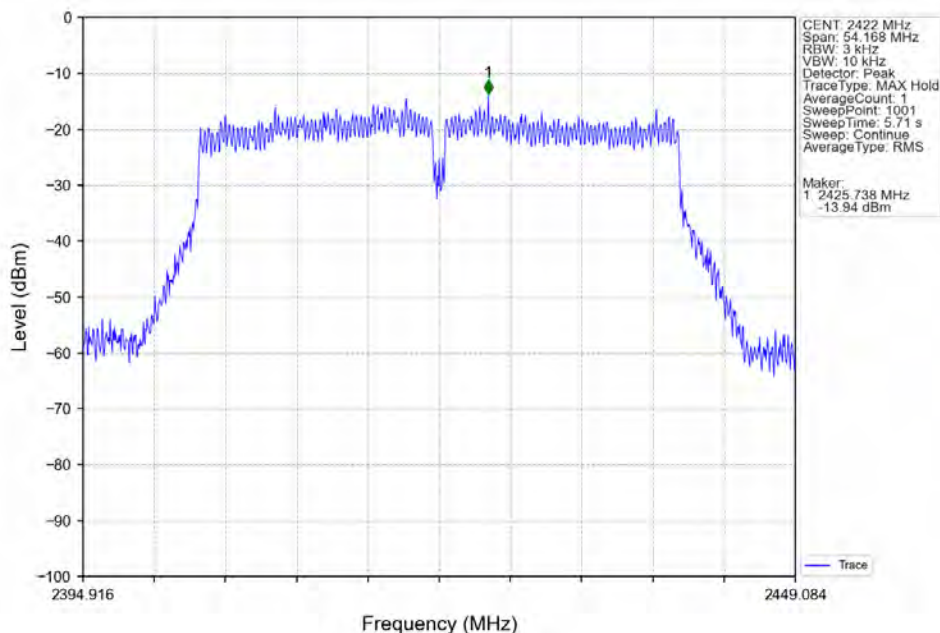
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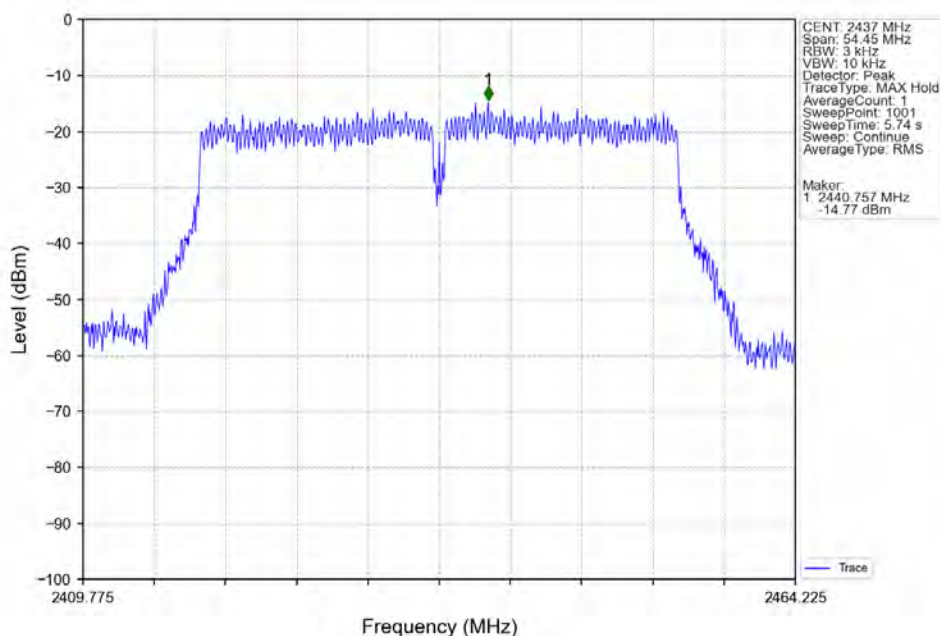


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

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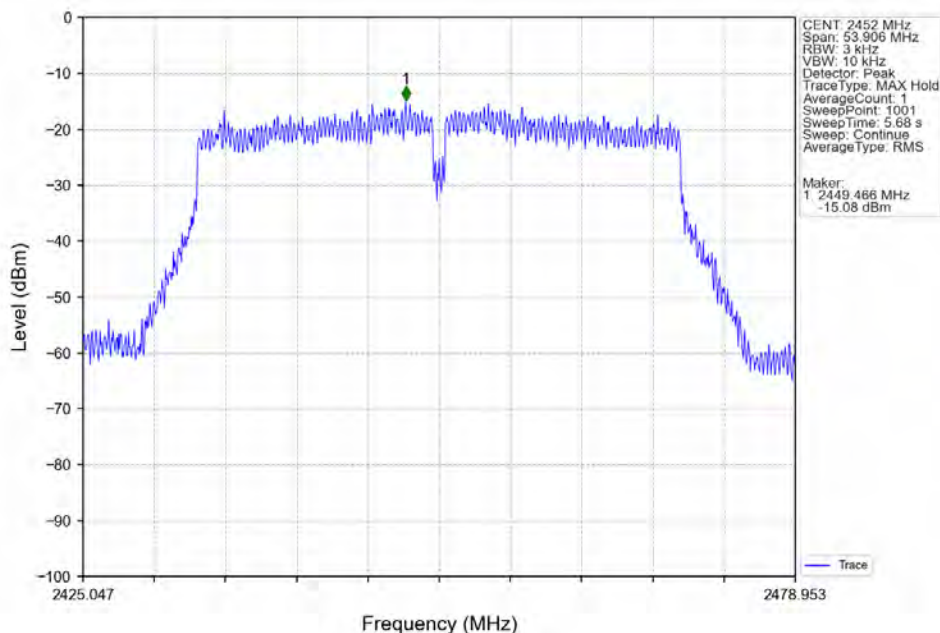
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
802.11b	SISO	2412	1	8.07
		2437	1	7.95
		2462	1	8.03
802.11g	SISO	2412	1	5.28
		2437	1	4.85
		2462	1	4.54
802.11n (HT20)	SISO	2412	1	4.41
		2437	1	4.09
		2462	1	3.86
802.11n (HT40)	SISO	2422	1	1.02
		2437	1	0.98
		2452	1	1.18

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

#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
802.11b	SISO	2412	1	8.07	-11.93	Pass
		2437	1	8.07	-11.93	Pass
		2462	1	8.07	-11.93	Pass
802.11g	SISO	2412	1	5.28	-14.72	Pass
		2437	1	5.28	-14.72	Pass
		2462	1	5.28	-14.72	Pass
802.11n (HT20)	SISO	2412	1	4.41	-15.59	Pass
		2437	1	4.41	-15.59	Pass
		2462	1	4.41	-15.59	Pass
802.11n (HT40)	SISO	2422	1	1.18	-18.82	Pass
		2437	1	1.18	-18.82	Pass
		2452	1	1.18	-18.82	Pass

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

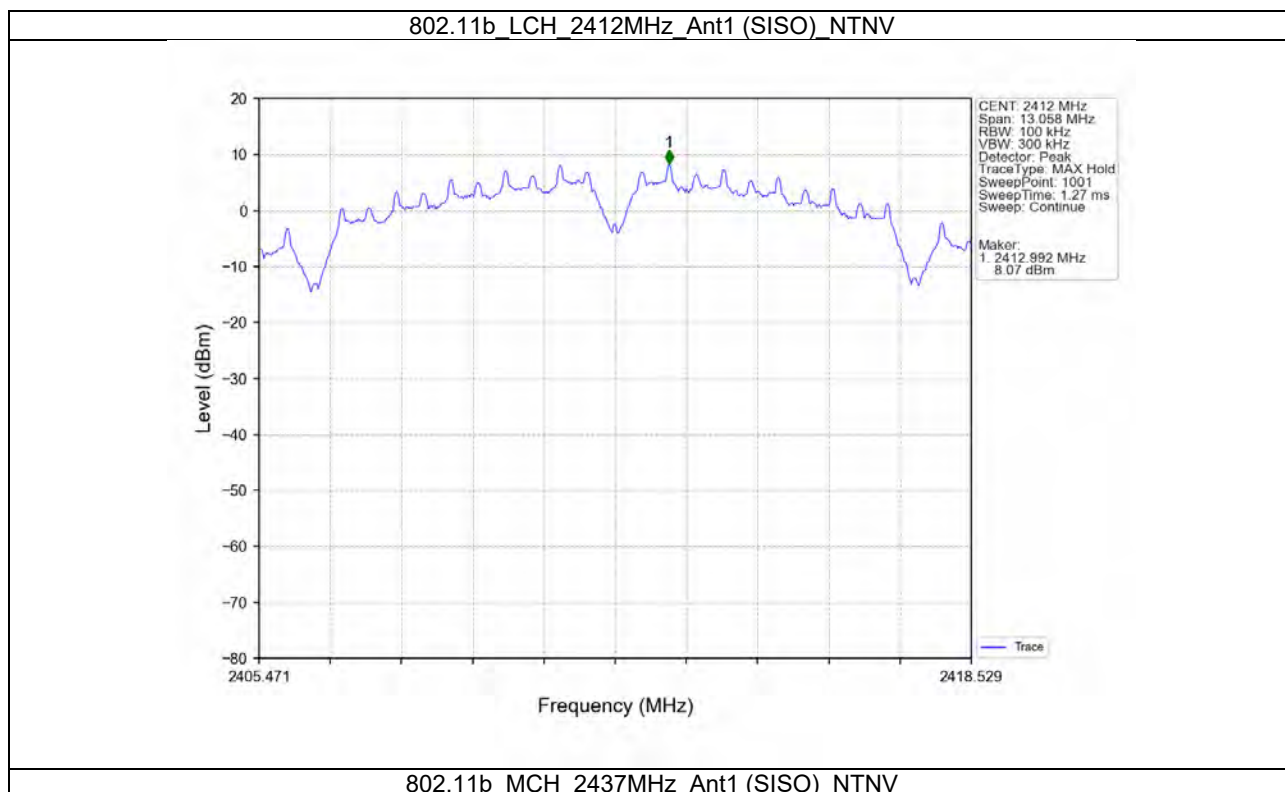
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## 5.2 Test Graph

### 5.2.1 Ref



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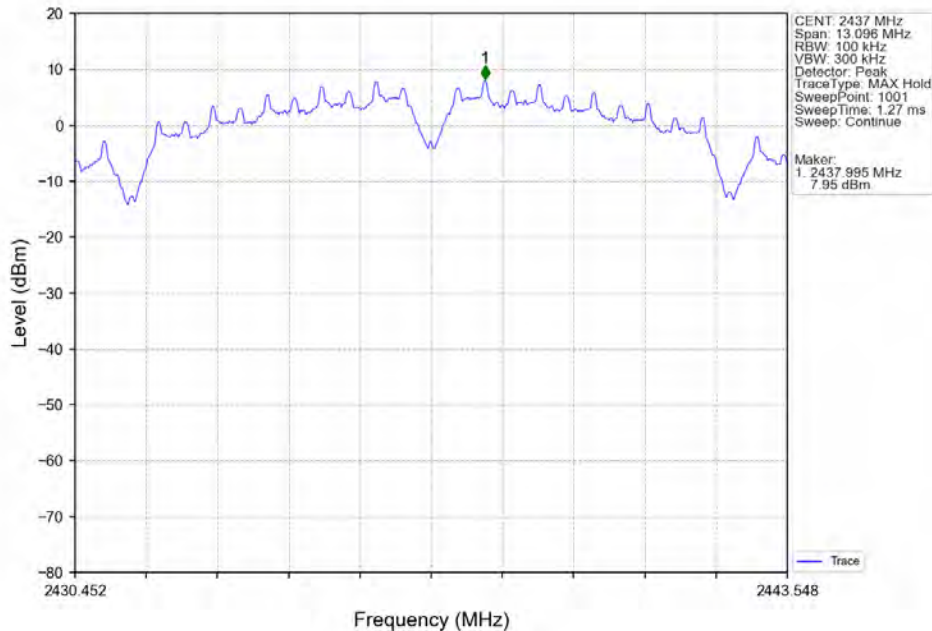
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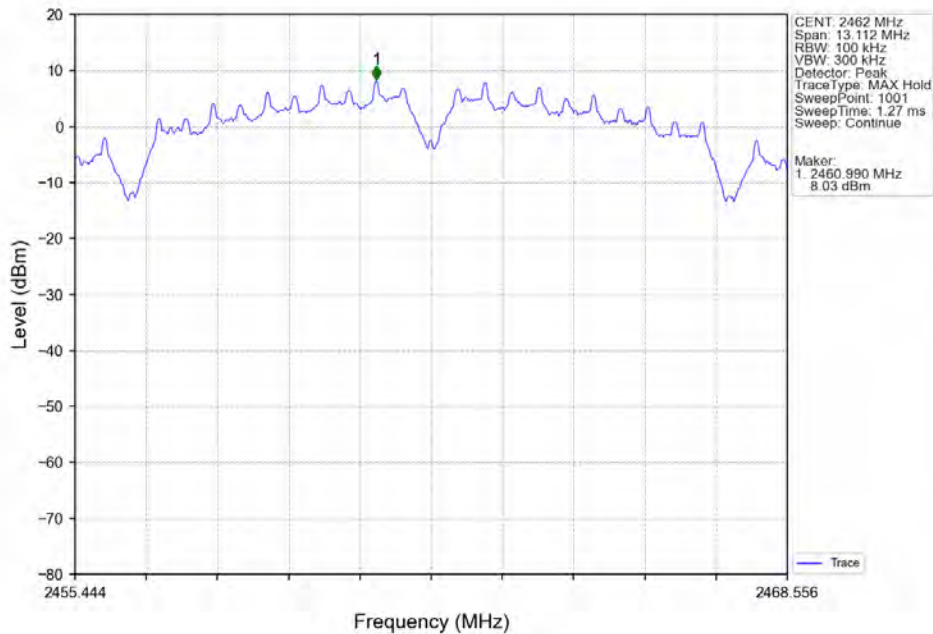


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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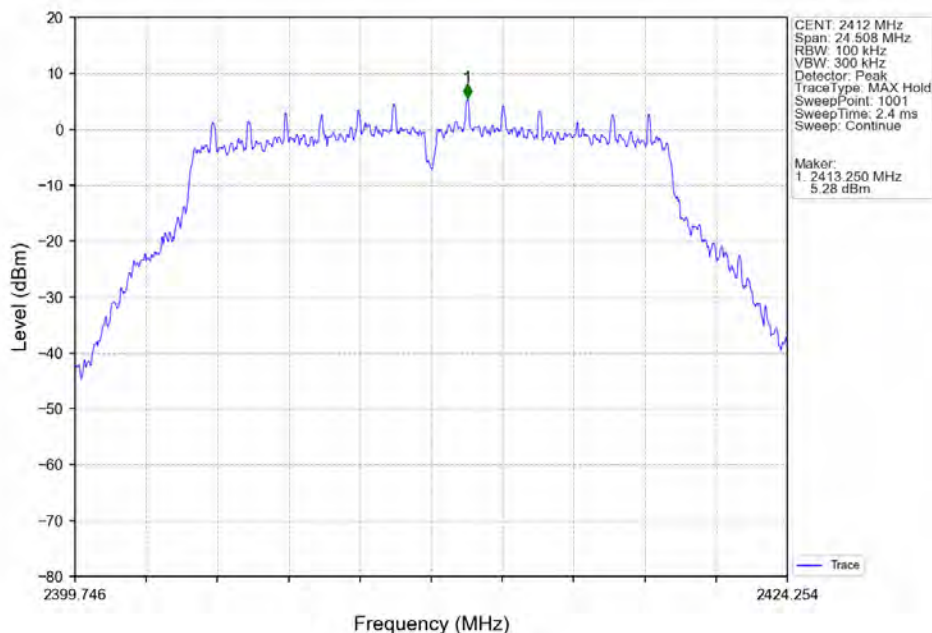
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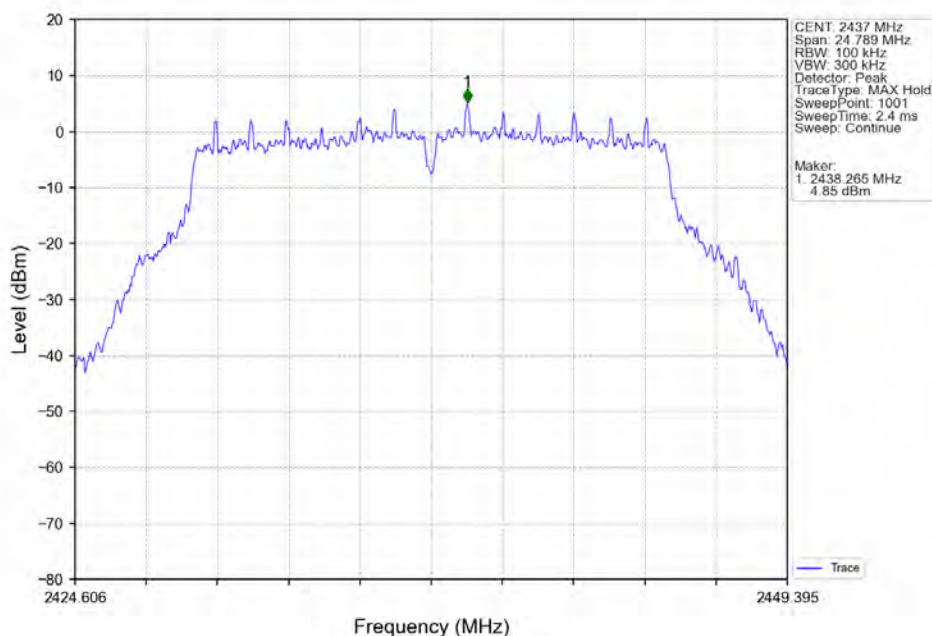
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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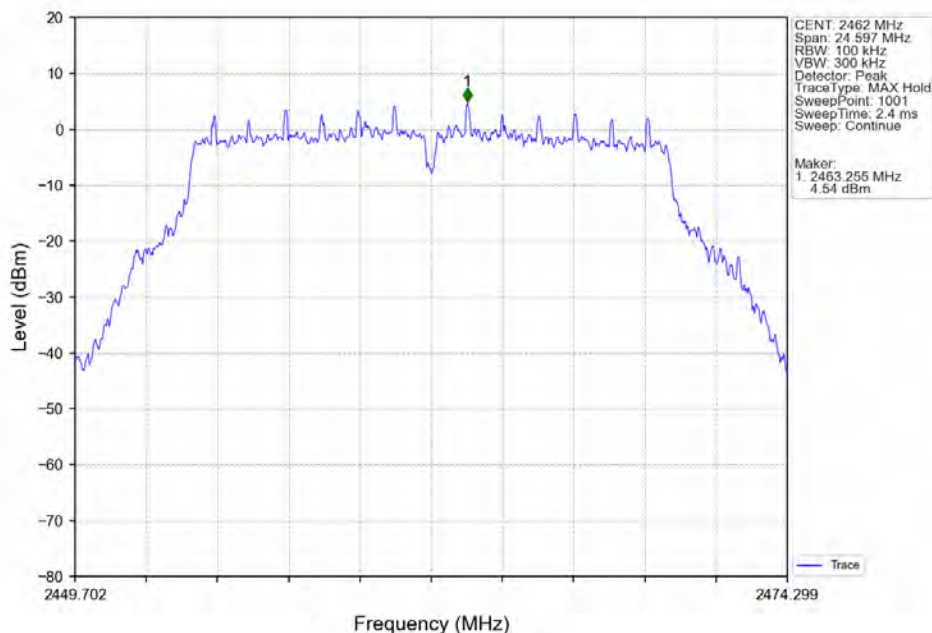
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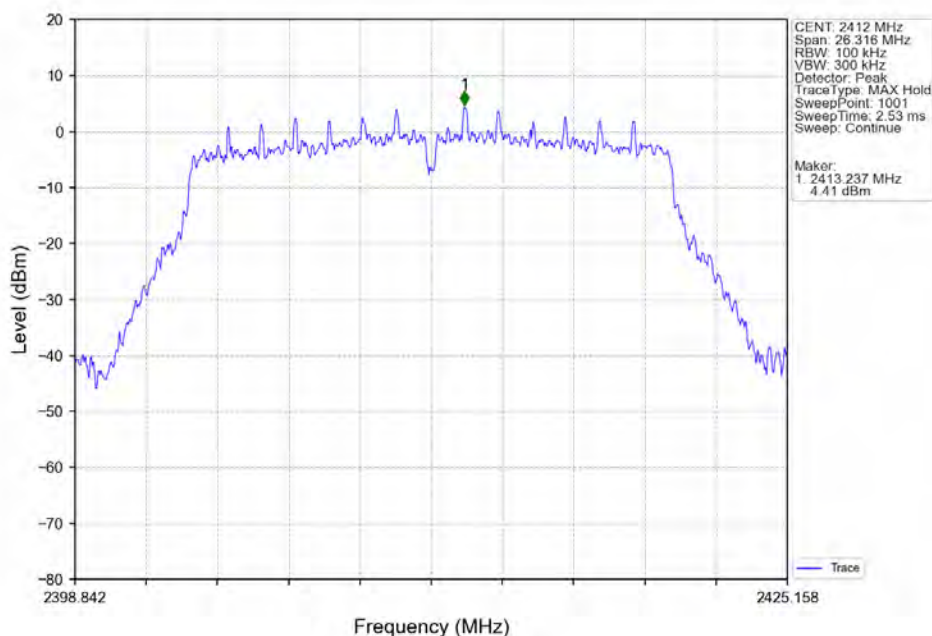


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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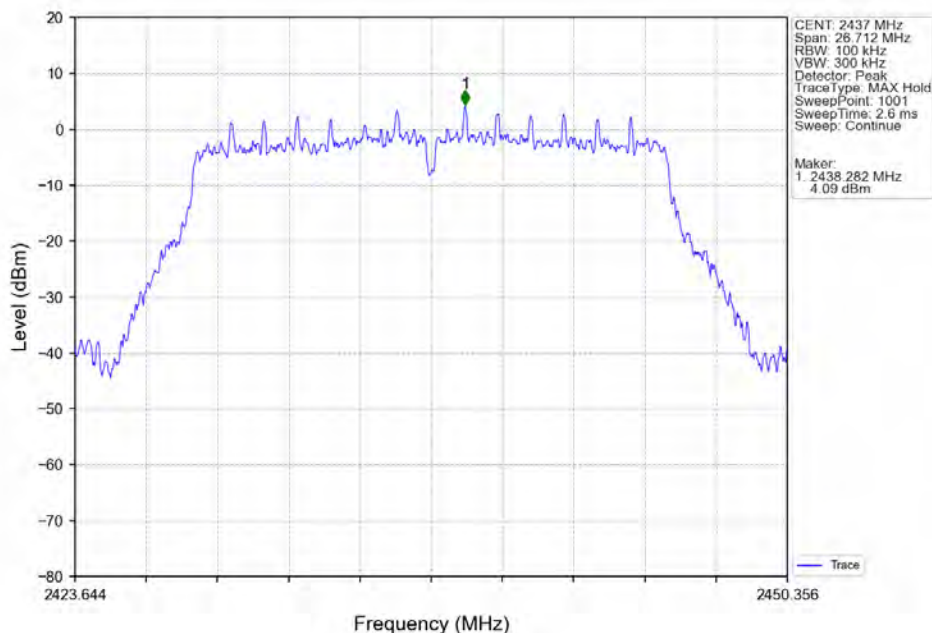
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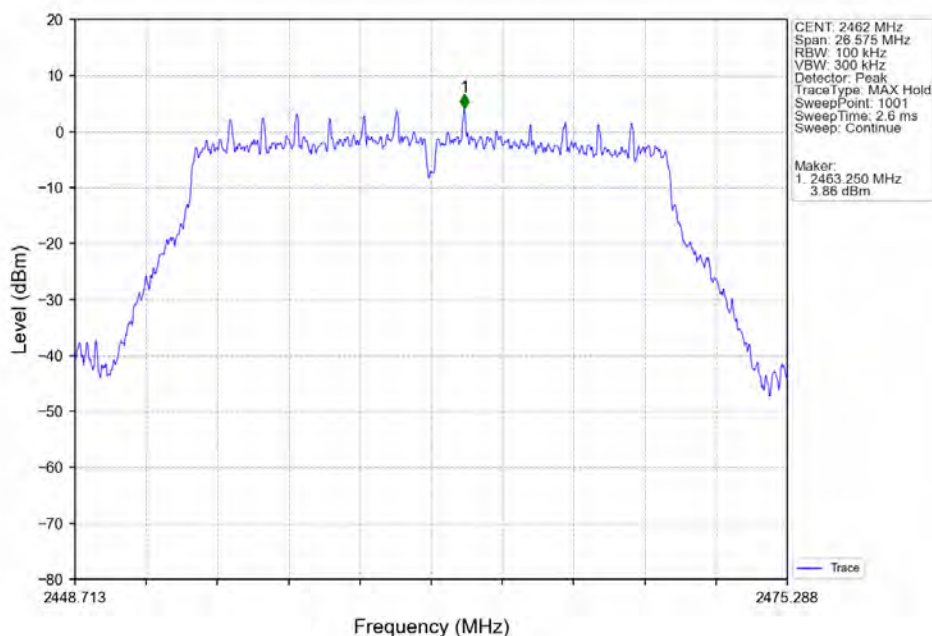
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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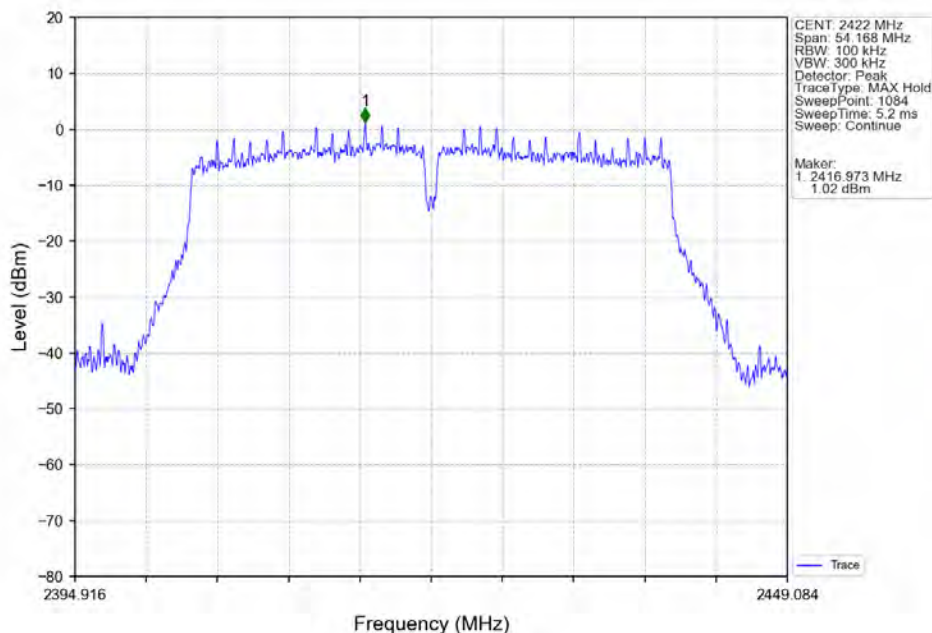
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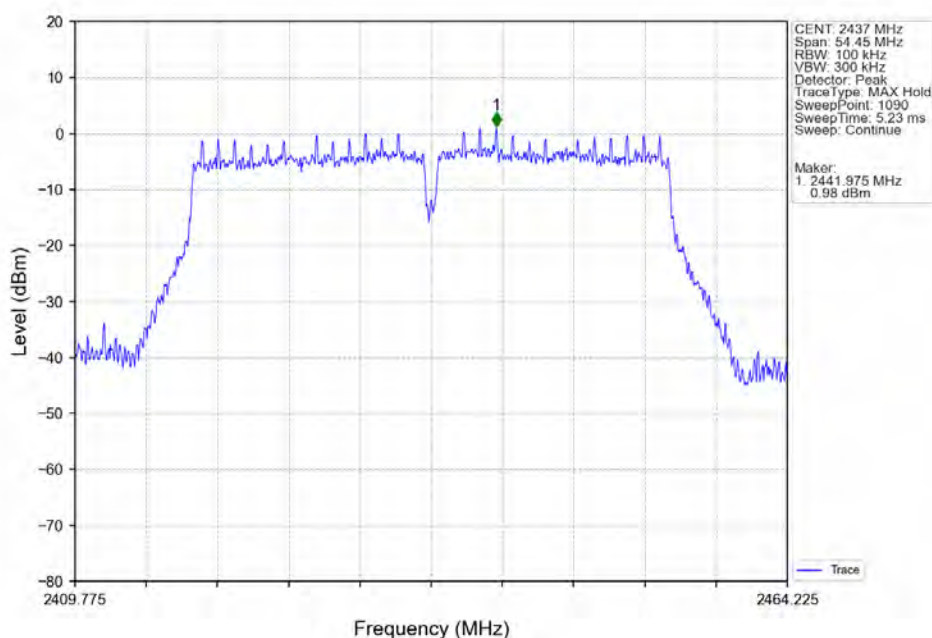


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

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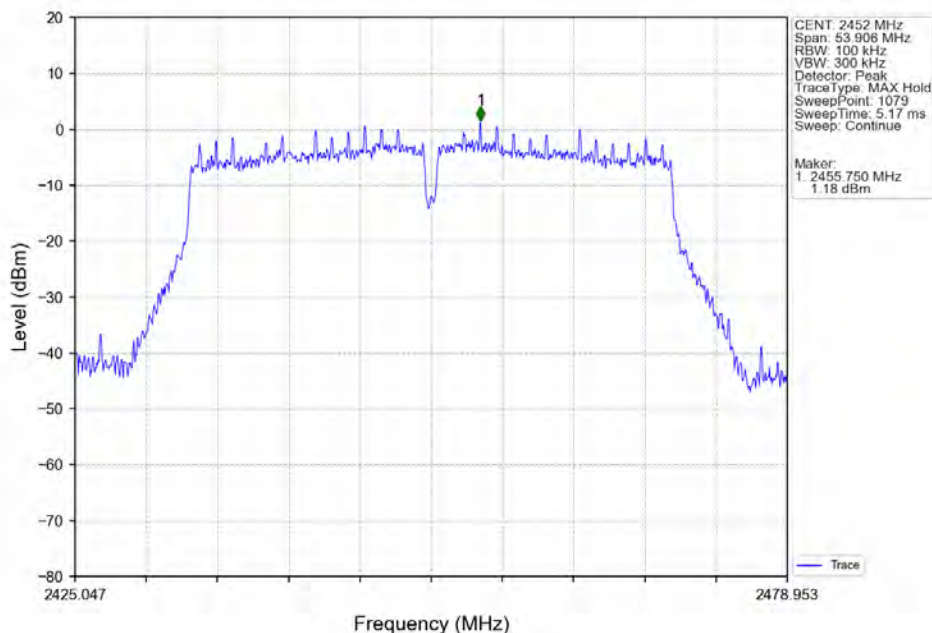
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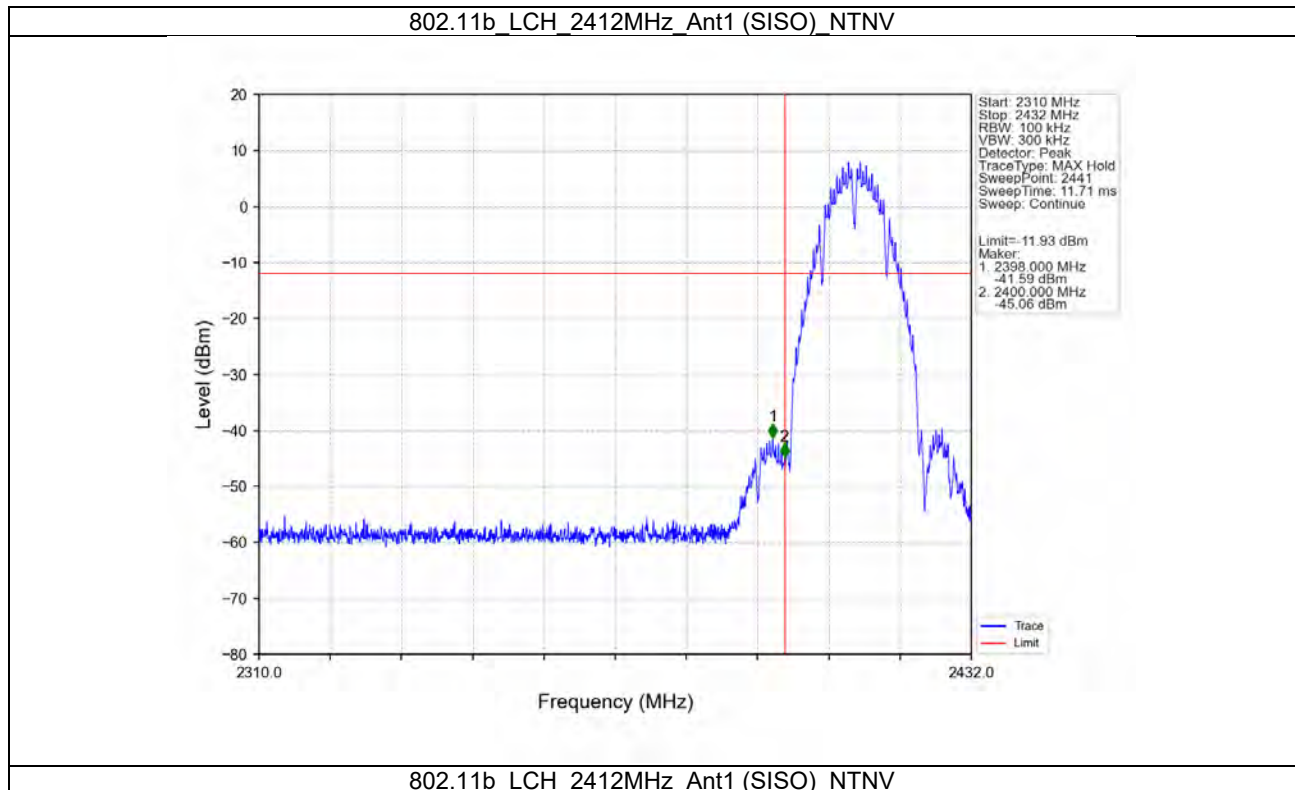


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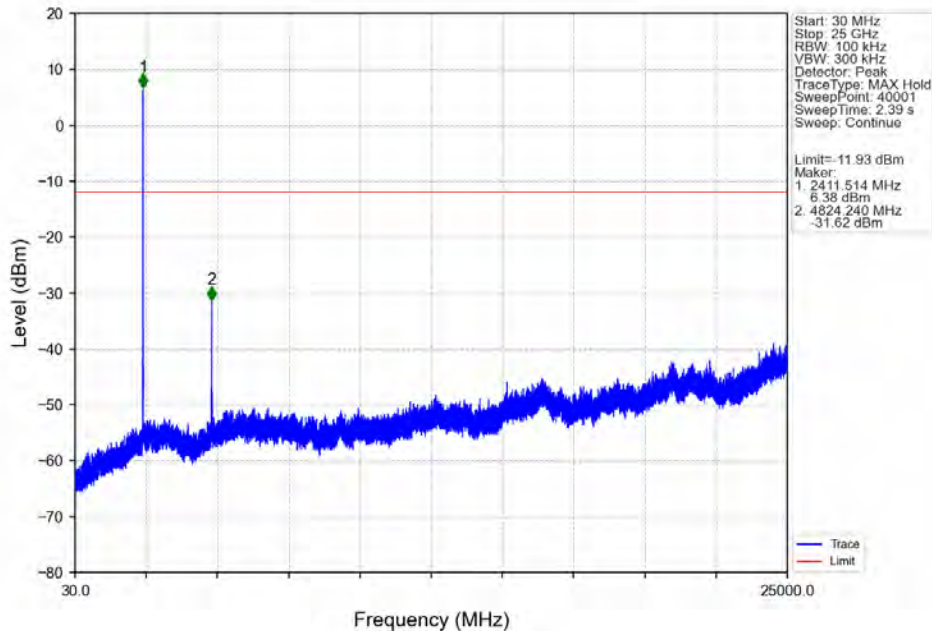
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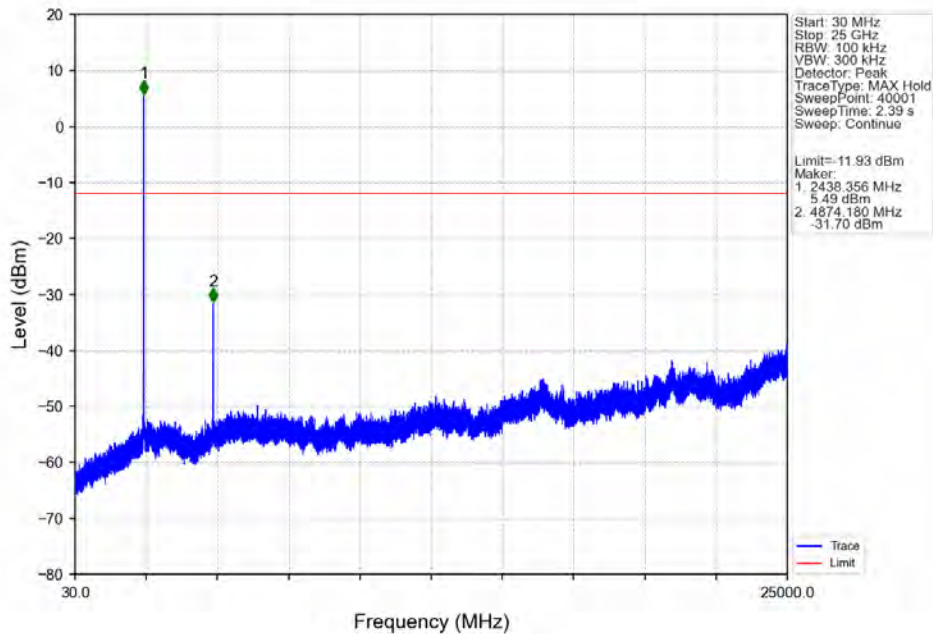


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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

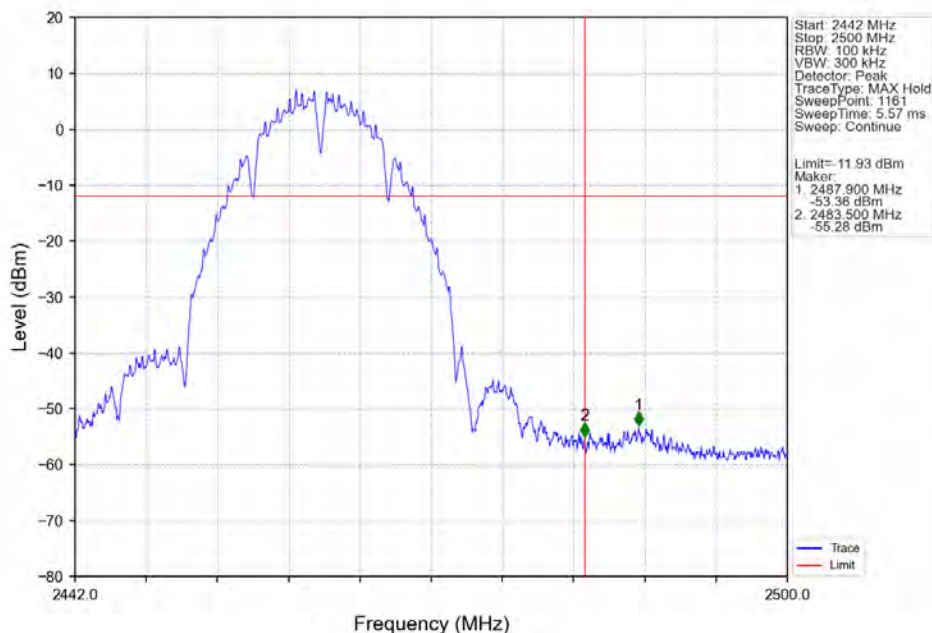


802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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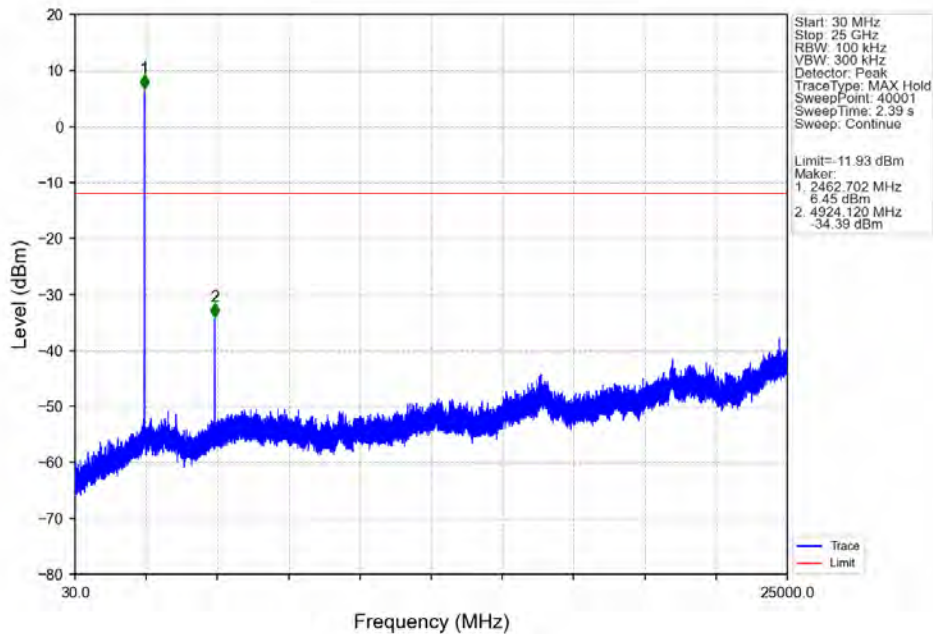


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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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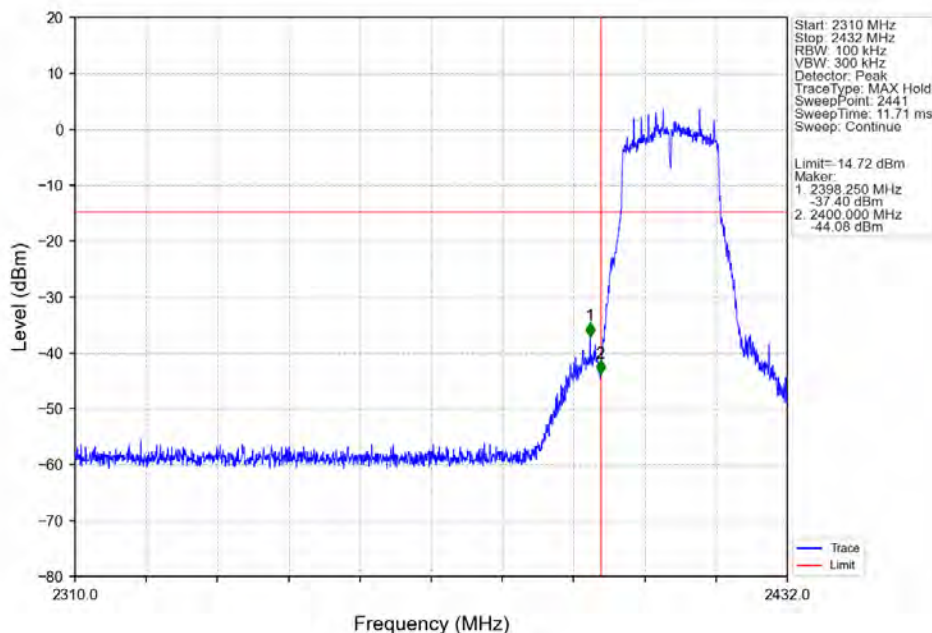
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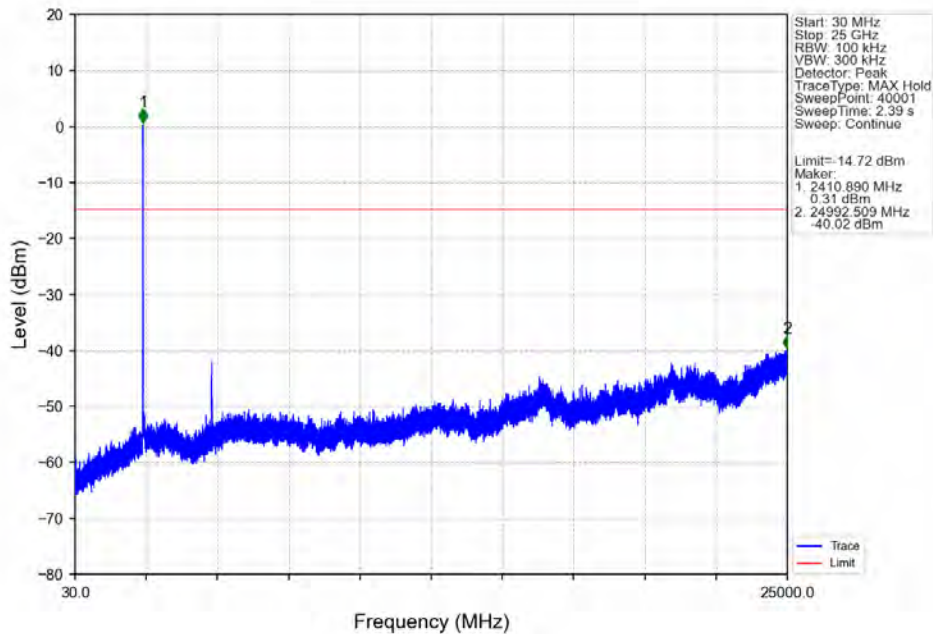
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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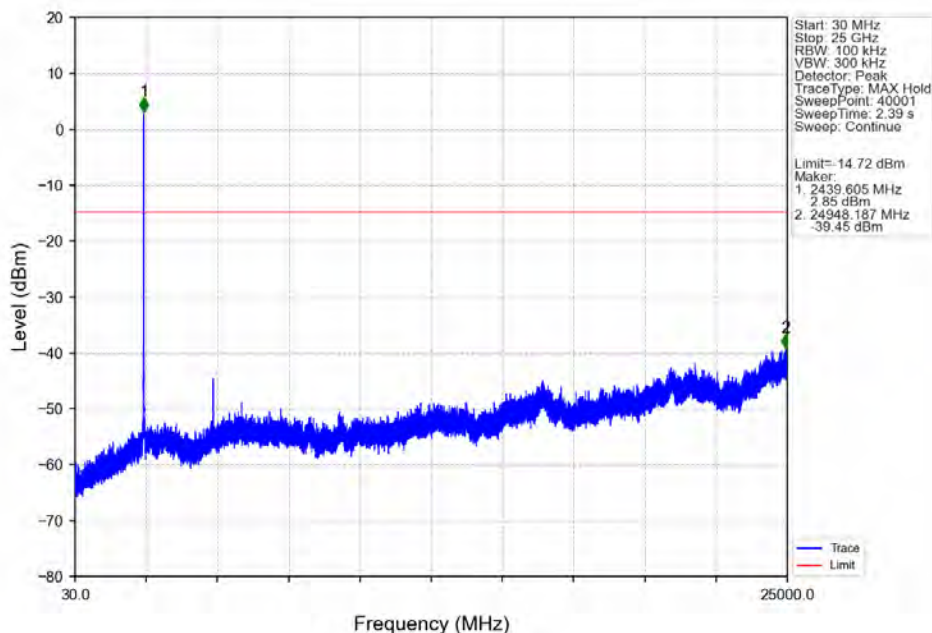
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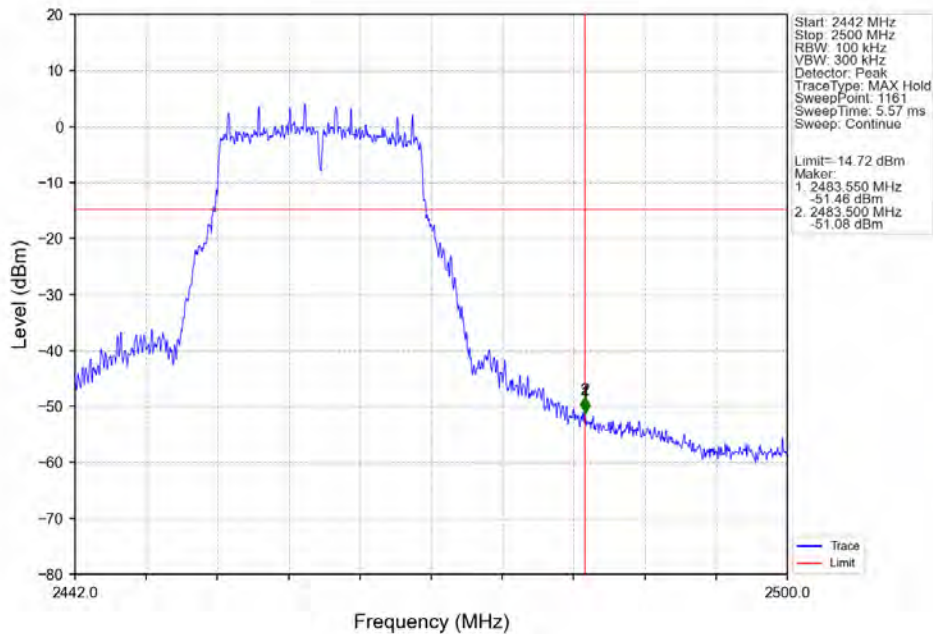


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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

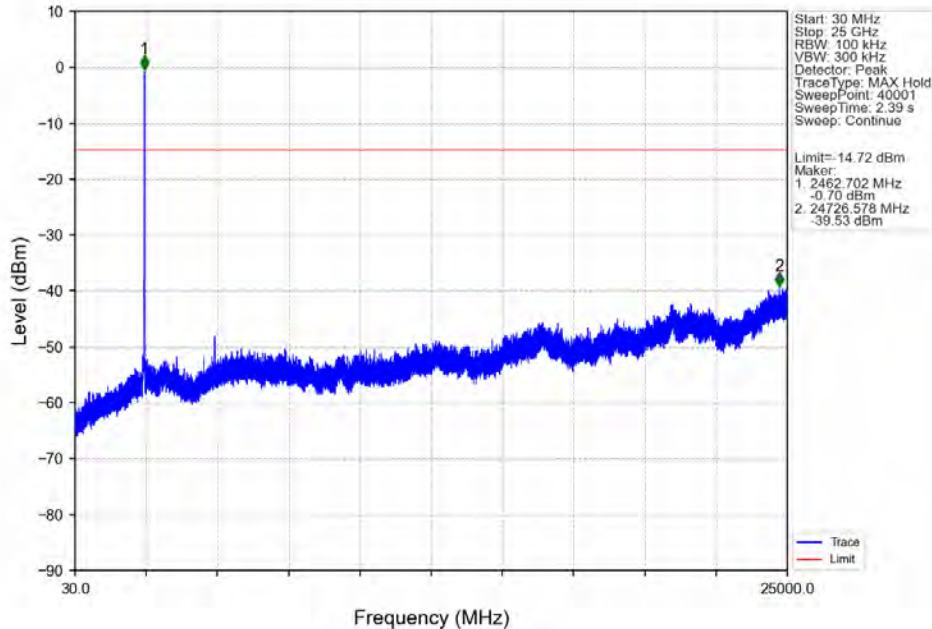


802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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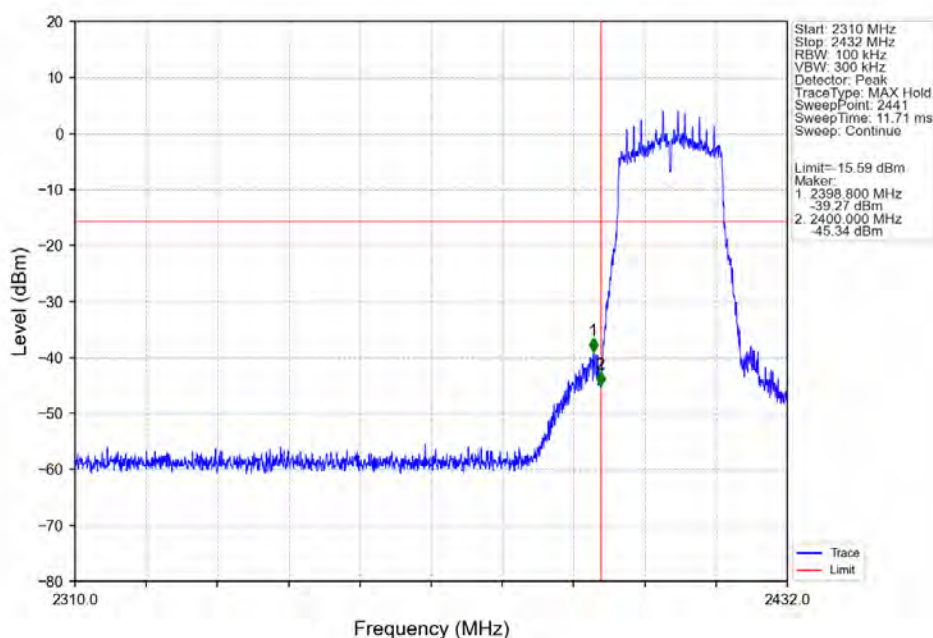


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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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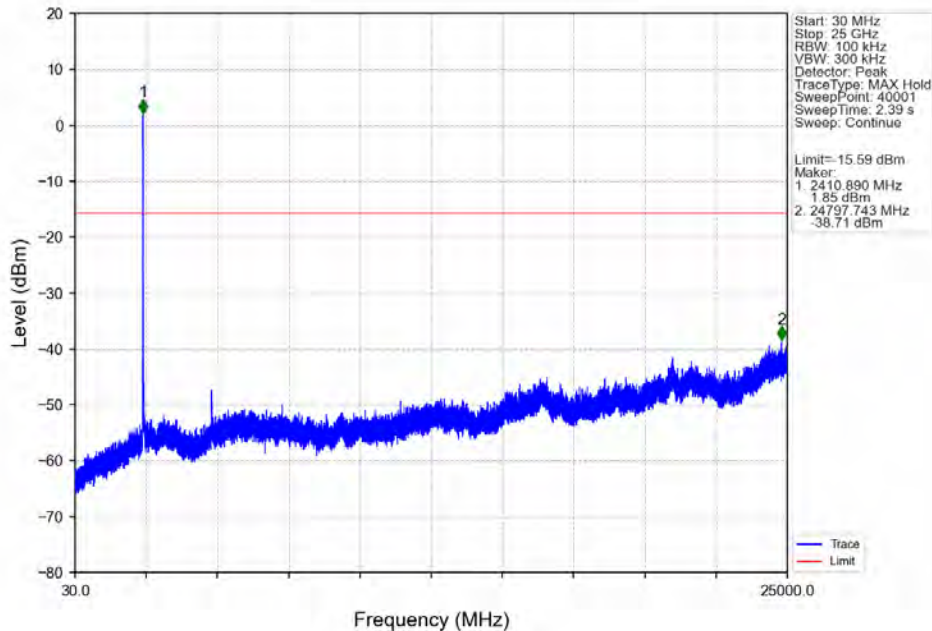
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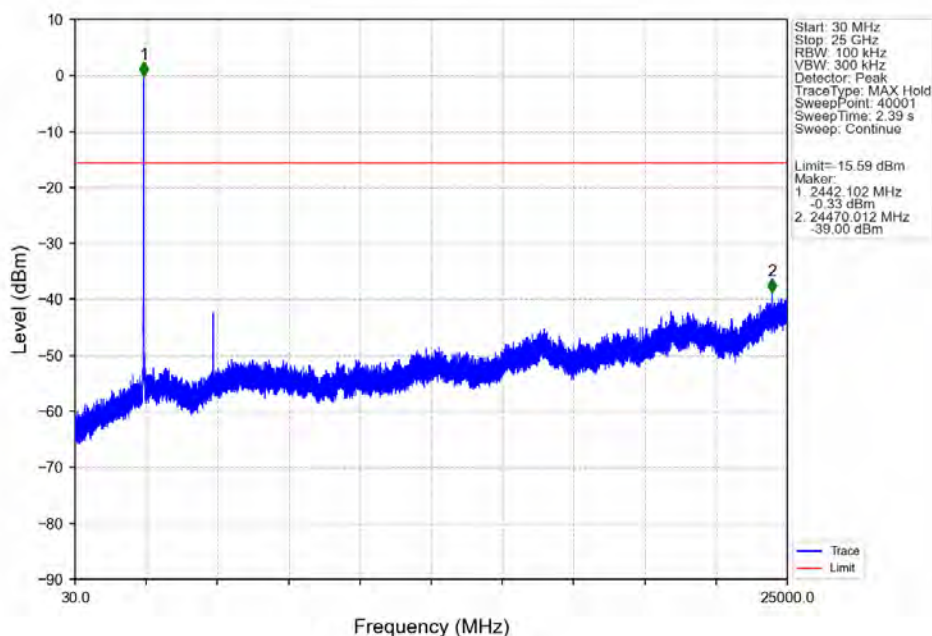
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



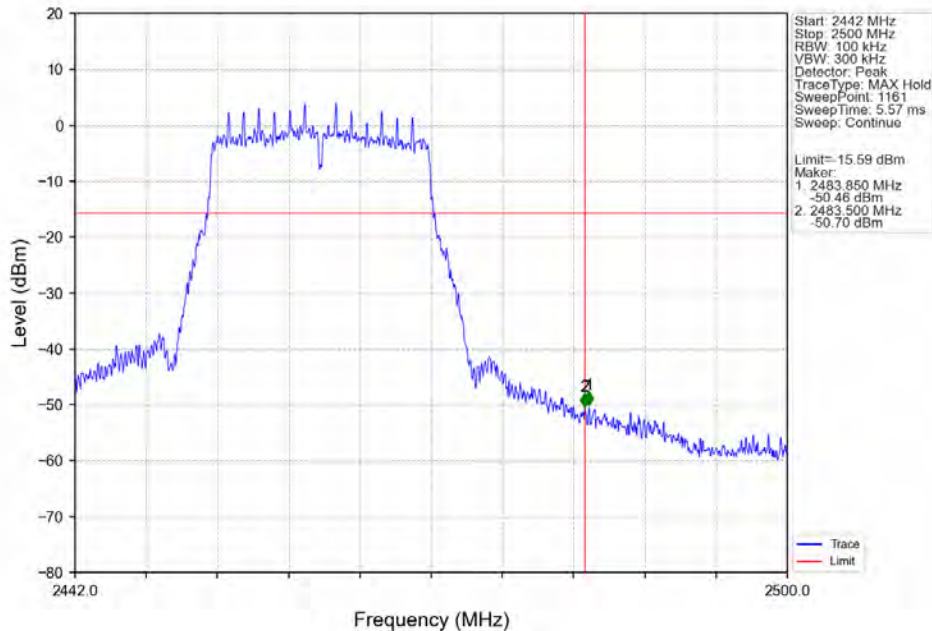
802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV

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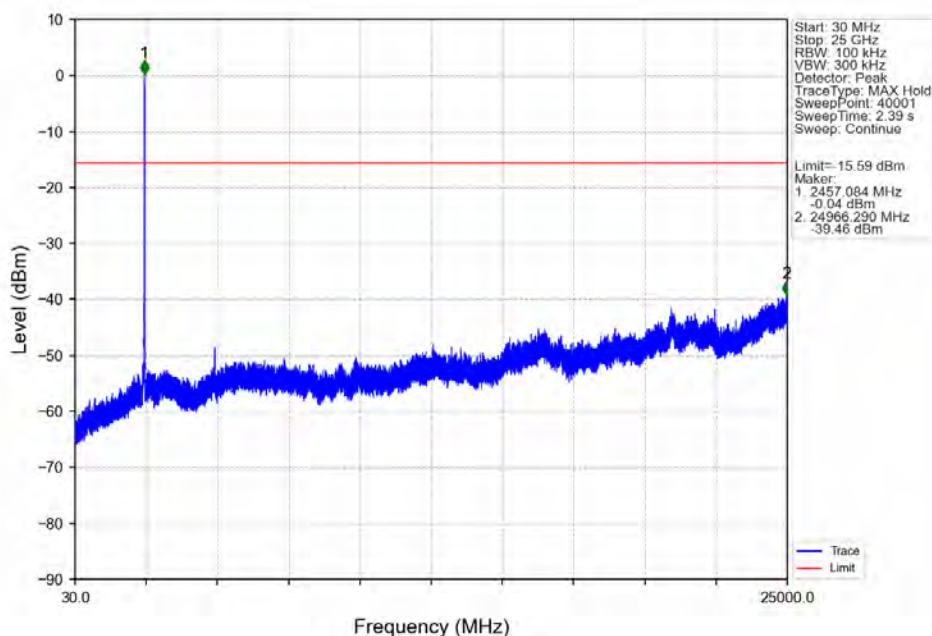


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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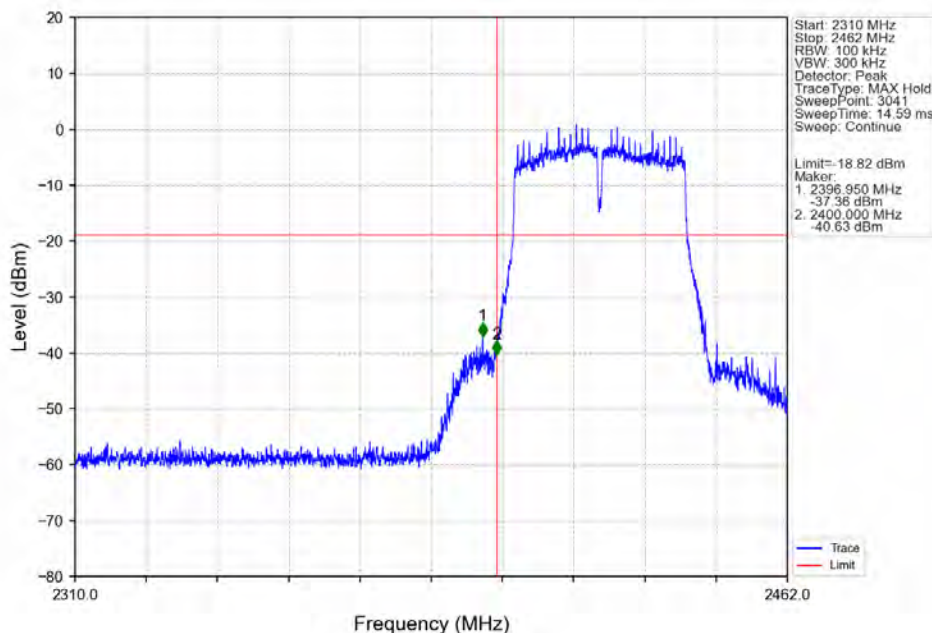
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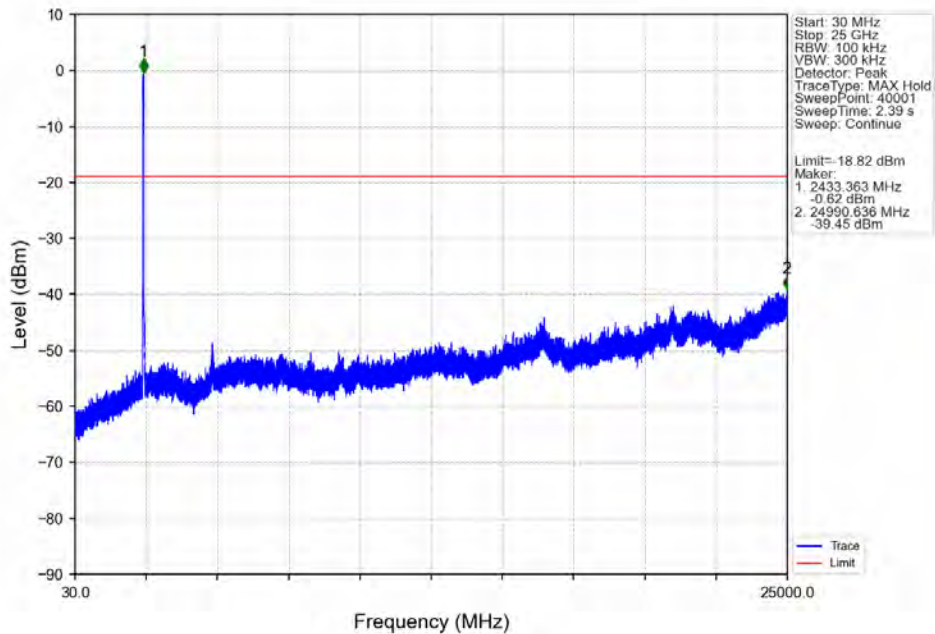


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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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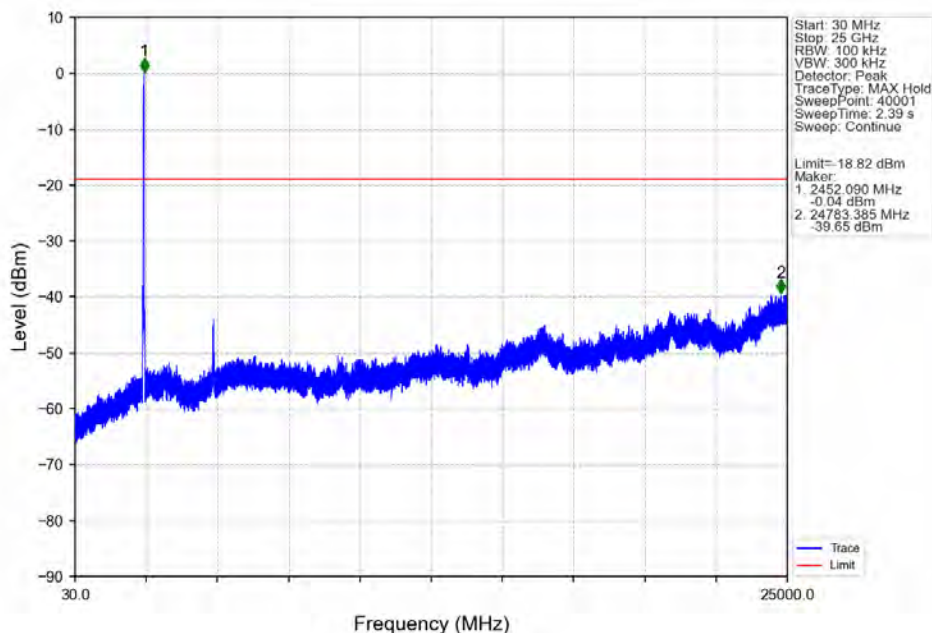
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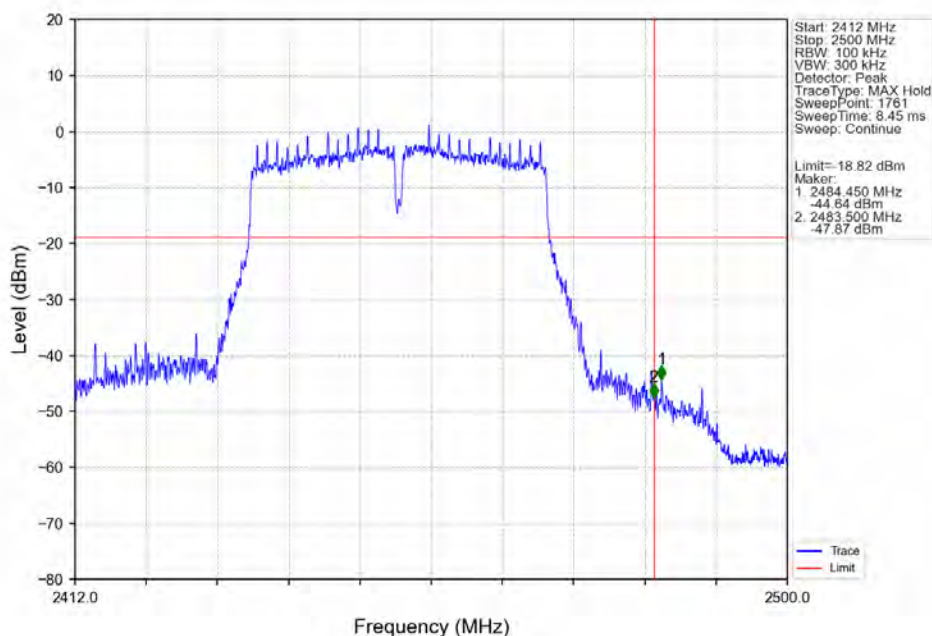


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV

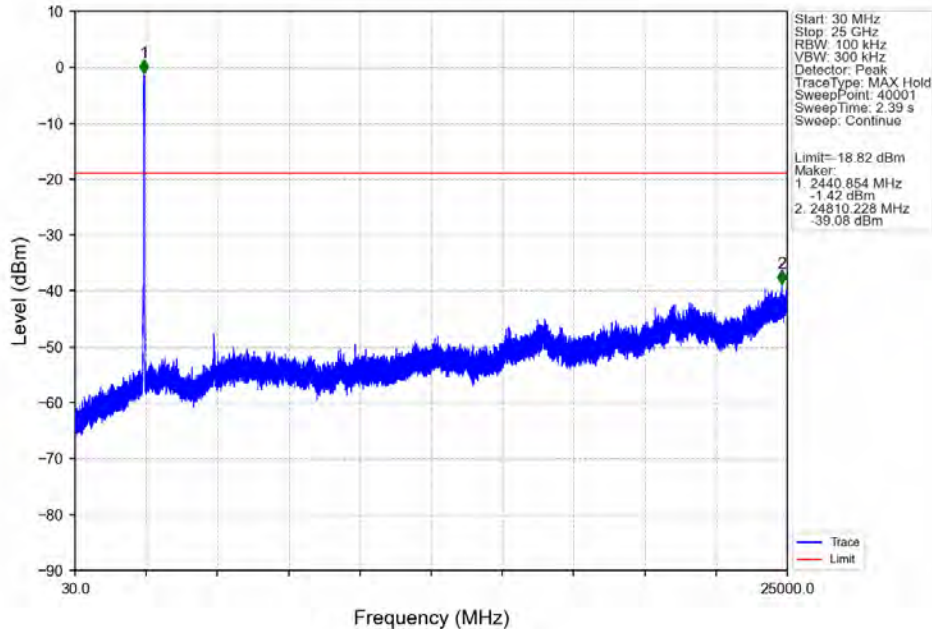


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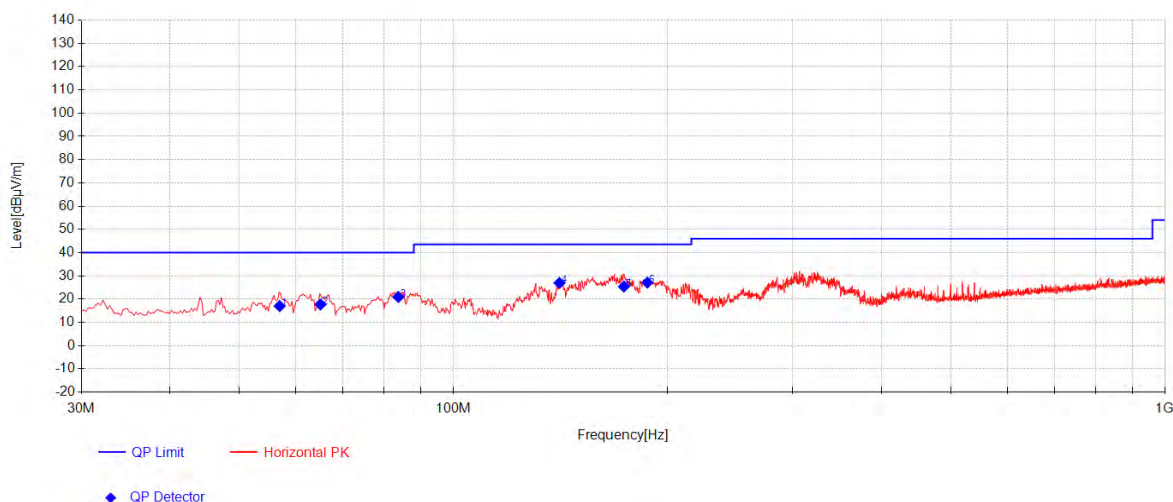
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### Radiated Spurious Emissions

### Radiated emission below 1GHz

### Worst case Mode: 802. 11b\_Channel 11



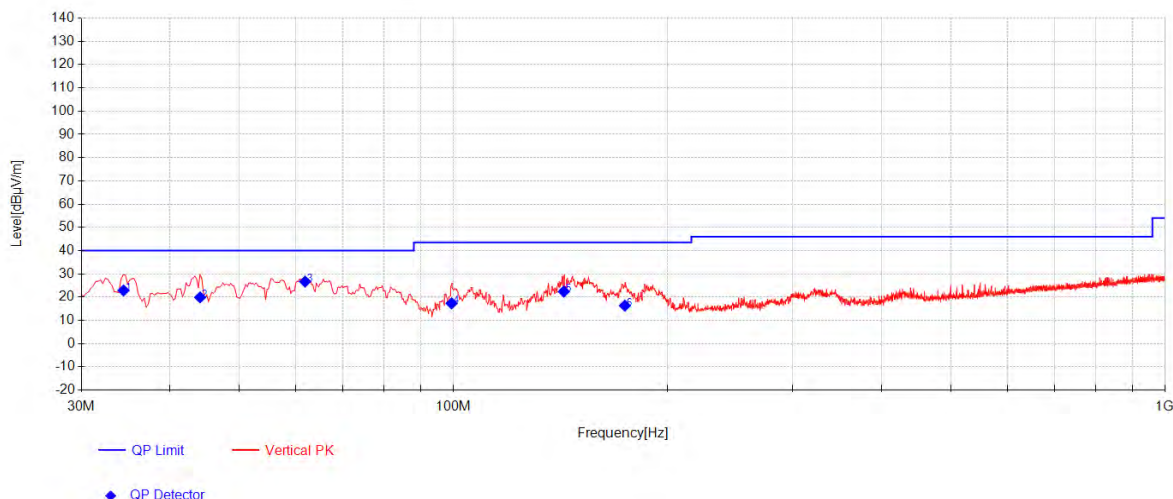
#### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	57.0163	32.81	-33.90	18.11	17.02	40.00	22.98	Horizontal
2	65.0637	34.29	-33.80	17.22	17.71	40.00	22.29	Horizontal
3	83.7020	39.92	-33.62	14.62	20.92	40.00	19.08	Horizontal
4	140.9792	41.79	-33.23	18.41	26.97	43.50	16.53	Horizontal
5	173.6767	40.12	-32.92	18.22	25.42	43.50	18.08	Horizontal
6	187.3154	44.28	-32.83	15.64	27.09	43.50	16.41	Horizontal

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### Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	34.4090	38.67	-34.00	18.20	22.87	40.00	17.13	Vertical
2	44.0813	35.08	-33.99	18.81	19.90	40.00	20.10	Vertical
3	61.9056	43.11	-33.84	17.42	26.69	40.00	13.31	Vertical
4	99.4418	36.23	-33.48	14.56	17.31	43.50	26.19	Vertical
5	142.9905	36.95	-33.22	18.68	22.41	43.50	21.09	Vertical
6	174.1903	31.28	-32.91	17.99	16.36	43.50	27.14	Vertical

### Remark:

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

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

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

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

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

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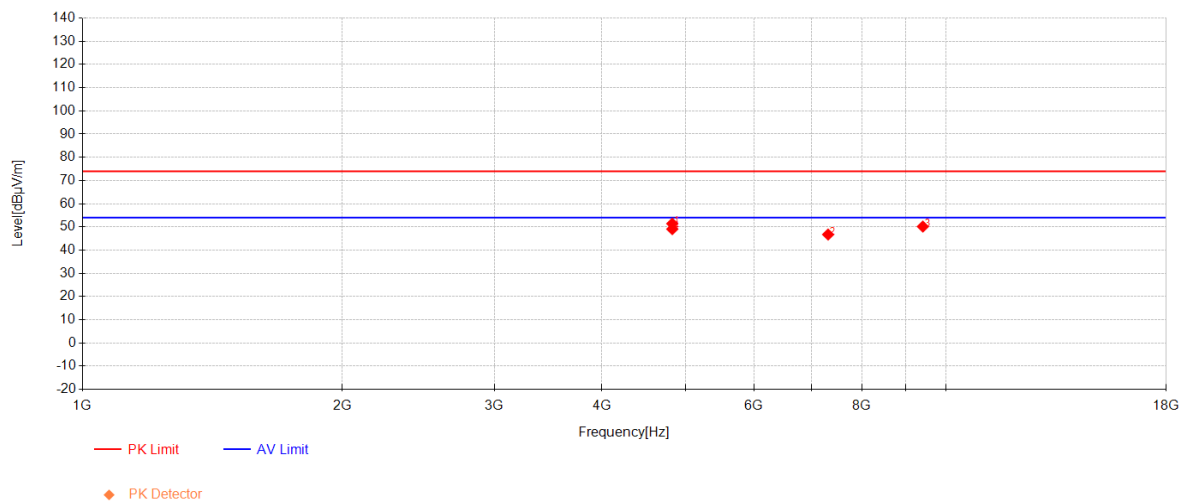
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Transmitter emission Above 1GHz  
802.11b\_Channel 01

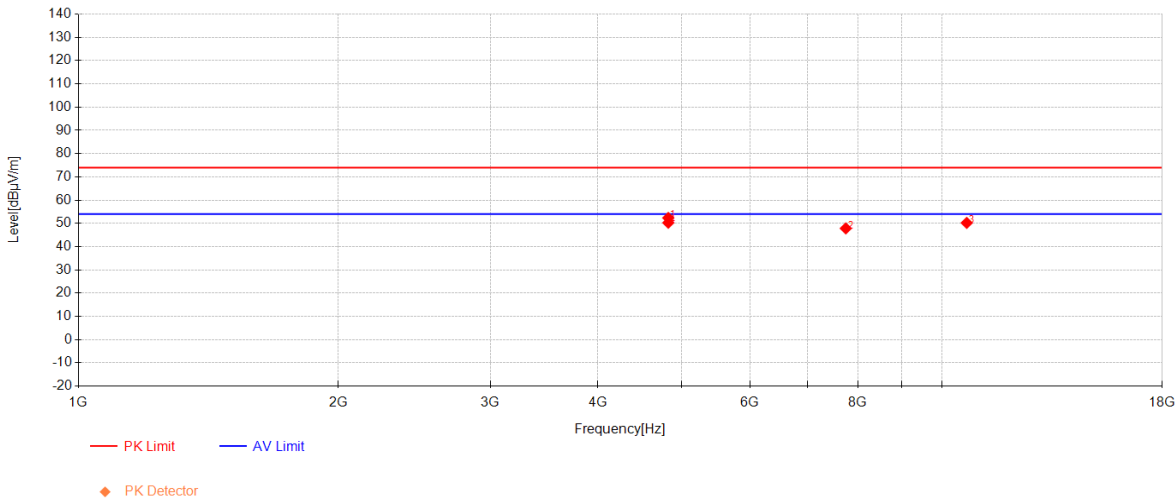


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	60.04	32.81	-41.43	51.42	74.00	22.58	Horizontal
2	7309.5	47.77	36.37	-37.41	46.73	74.00	27.27	Horizontal
3	9411	46.19	37.72	-33.76	50.15	74.00	23.85	Horizontal
4	4824.5	57.68	32.81	-41.43	49.07	54.00	4.93	Horizontal

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### 802.11b\_Channel 01



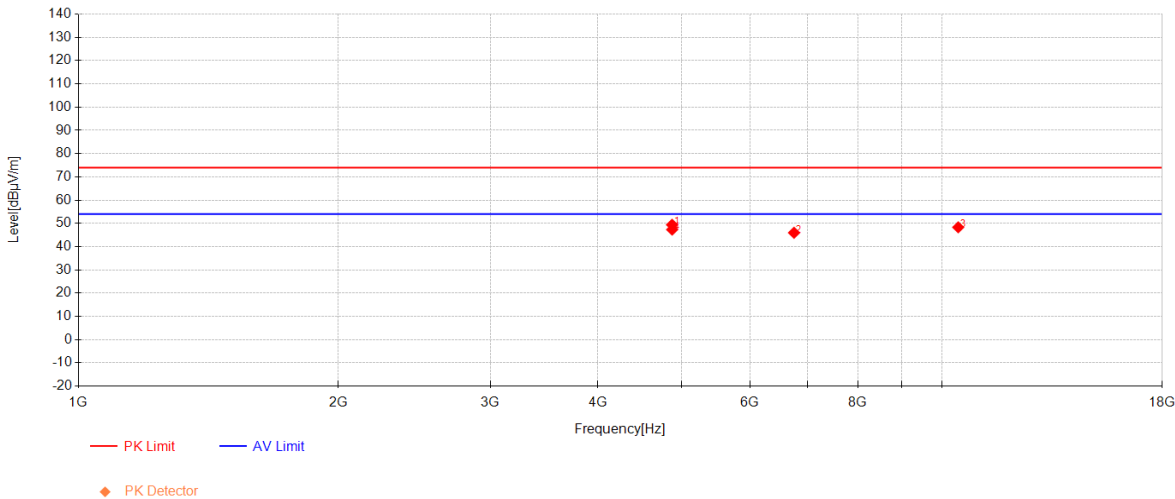
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	60.99	32.81	-41.43	52.37	74.00	21.63	Vertical
2	7745.5	48.07	36.85	-37.08	47.83	74.00	26.17	Vertical
3	10692.5	42.61	38.25	-30.64	50.22	74.00	23.78	Vertical
4	4824.5	58.87	32.81	-41.43	50.26	54.00	3.74	Vertical

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### 802.11b\_Channel 06



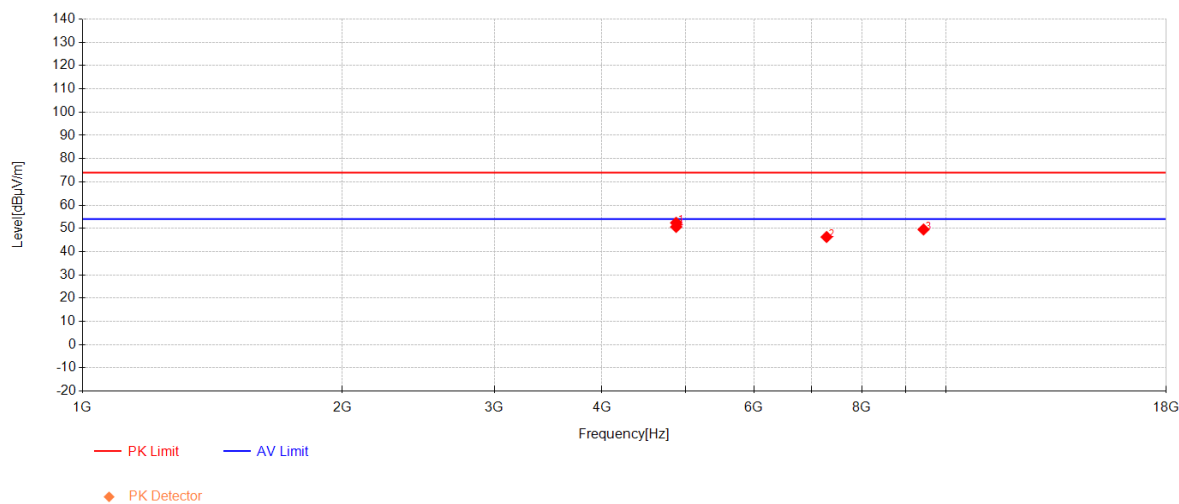
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	57.76	32.92	-41.28	49.40	74.00	24.60	Horizontal
2	6746	48.70	35.90	-38.63	45.97	74.00	28.03	Horizontal
3	10453	41.50	38.13	-31.30	48.32	74.00	25.68	Horizontal
4	4874.5	55.68	32.92	-41.28	47.33	54.00	6.67	Horizontal

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### 802.11b\_Channel 06



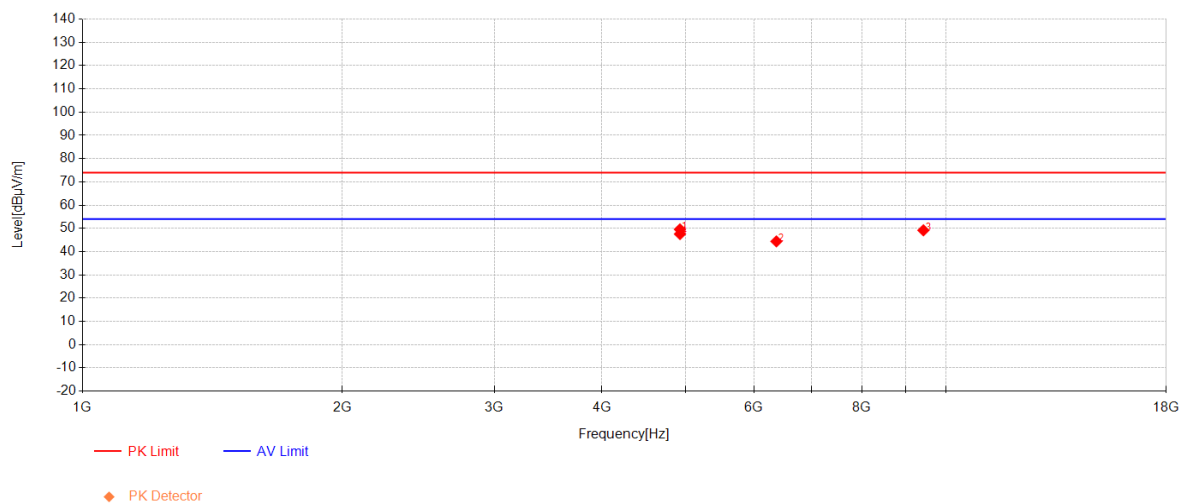
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	60.76	32.92	-41.28	52.40	74.00	21.60	Vertical
2	7280.5	47.46	36.34	-37.50	46.30	74.00	27.70	Vertical
3	9429	45.59	37.73	-33.79	49.53	74.00	24.47	Vertical
4	4874.5	58.98	32.92	-41.28	50.63	54.00	3.37	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]	Polarity
1	4923.5	57.82	33.03	-41.26	49.59	74.00	24.41	Horizontal
2	6368.5	48.17	35.54	-39.28	44.42	74.00	29.58	Horizontal
3	9425	45.23	37.73	-33.78	49.18	74.00	24.82	Horizontal
4	4924.5	55.80	33.03	-41.27	47.57	54.00	6.43	Horizontal

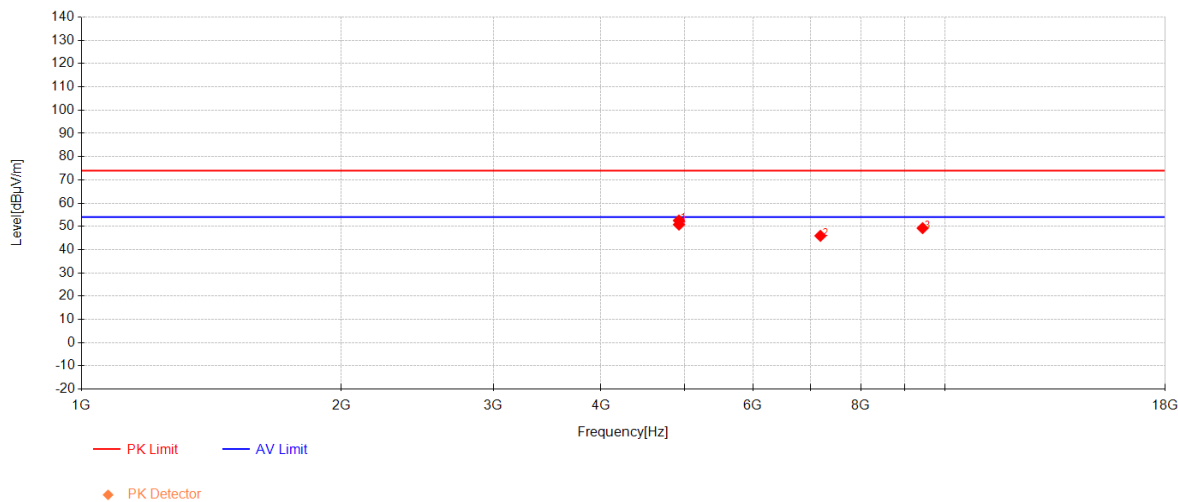
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### 802.11b\_Channel 11



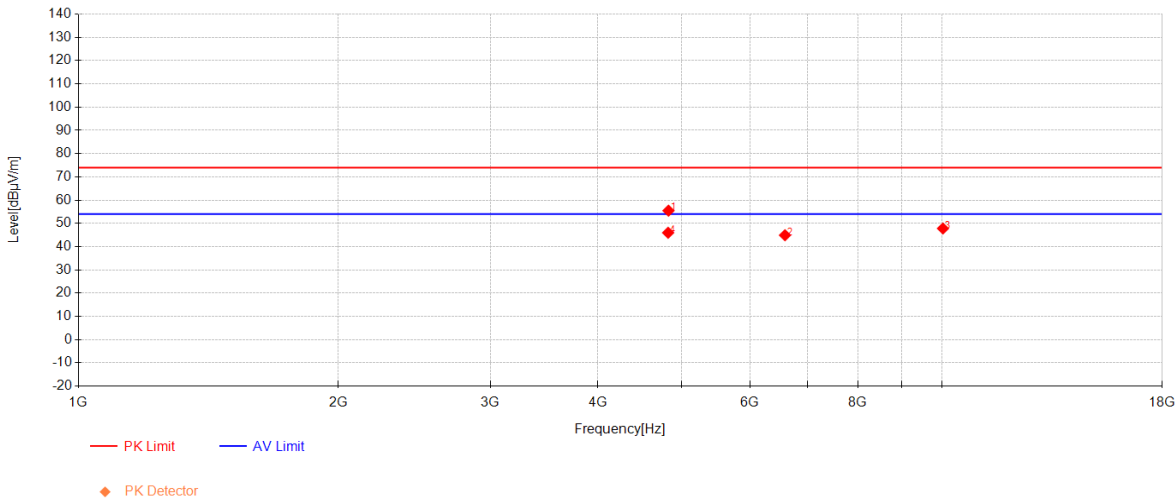
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4923.5	60.75	33.03	-41.26	52.52	74.00	21.48	Vertical
2	7180.5	47.79	36.22	-38.07	45.93	74.00	28.07	Vertical
3	9430.5	45.31	37.73	-33.79	49.25	74.00	24.75	Vertical
4	4924.5	59.01	33.03	-41.27	50.78	54.00	3.22	Vertical

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### 802.11g\_Channel 01



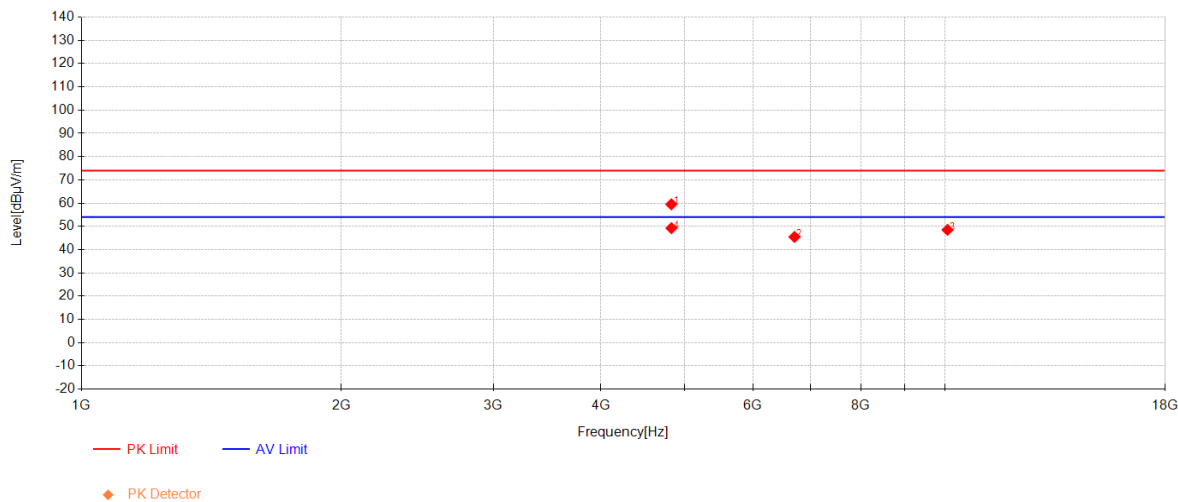
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4827	64.07	32.82	-41.42	55.47	74.00	18.53	Horizontal
2	6585.5	48.09	35.83	-39.02	44.90	74.00	29.10	Horizontal
3	10036	42.22	37.92	-32.34	47.80	74.00	26.20	Horizontal
4	4822.5	54.59	32.81	-41.43	45.97	54.00	8.03	Horizontal

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### 802.11g\_Channel 01



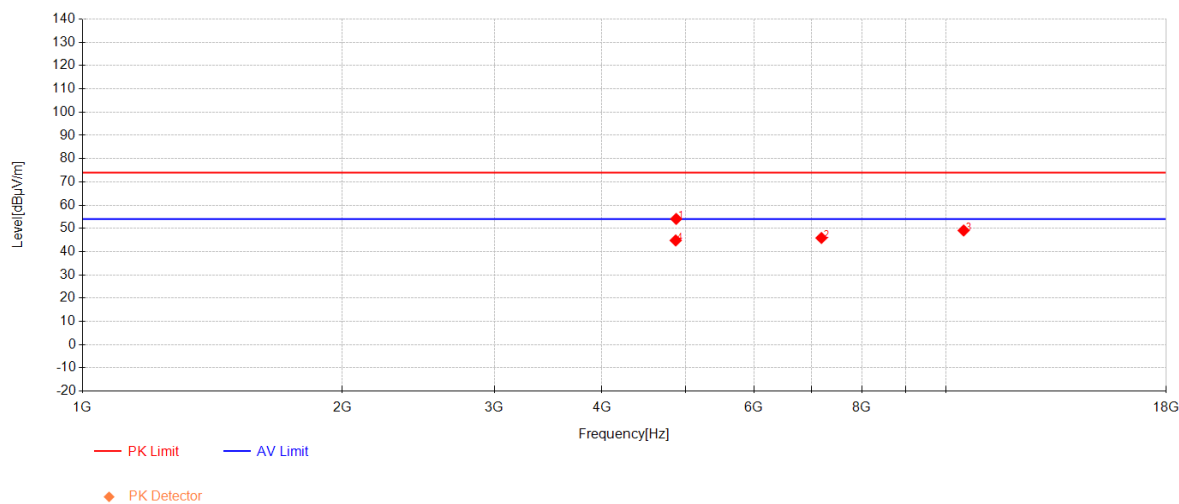
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4825.5	68.11	32.82	-41.42	59.50	74.00	14.50	Vertical
2	6701	48.35	35.88	-38.77	45.46	74.00	28.54	Vertical
3	10078.5	42.82	37.94	-32.25	48.51	74.00	25.49	Vertical
4	4826.5	57.84	32.82	-41.42	49.24	54.00	4.76	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]	Polarity
1	4875	62.42	32.93	-41.28	54.07	74.00	19.93	Horizontal
2	7181	47.73	36.22	-38.07	45.88	74.00	28.12	Horizontal
3	10492.5	42.13	38.15	-31.19	49.09	74.00	24.91	Horizontal
4	4868.5	53.20	32.91	-41.29	44.82	54.00	9.18	Horizontal

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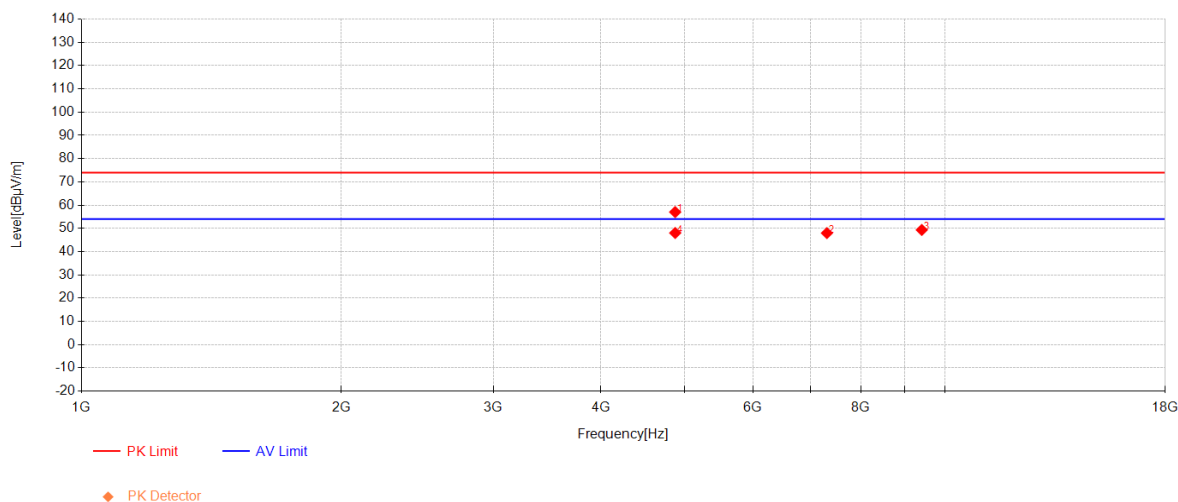
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Report No.: SUCR241100045504

Rev.: 01

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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]	Polarity
1	4874.5	65.36	32.92	-41.28	57.01	74.00	16.99	Vertical
2	7306	48.99	36.37	-37.39	47.97	74.00	26.03	Vertical
3	9409	45.37	37.72	-33.76	49.33	74.00	24.67	Vertical
4	4875	56.37	32.93	-41.28	48.02	54.00	5.98	Vertical

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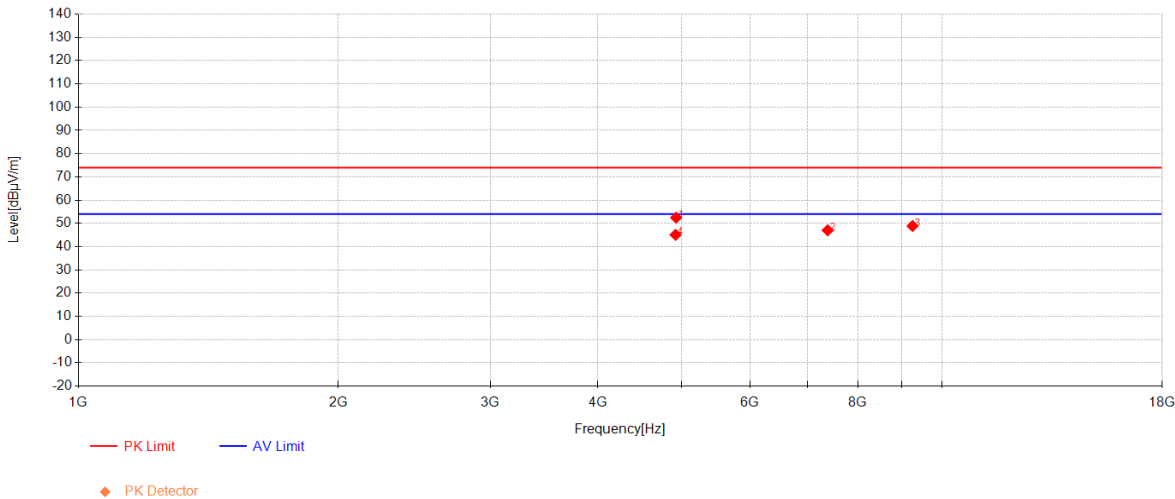
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Wireless Laboratory

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### 802.11g\_Channel 11



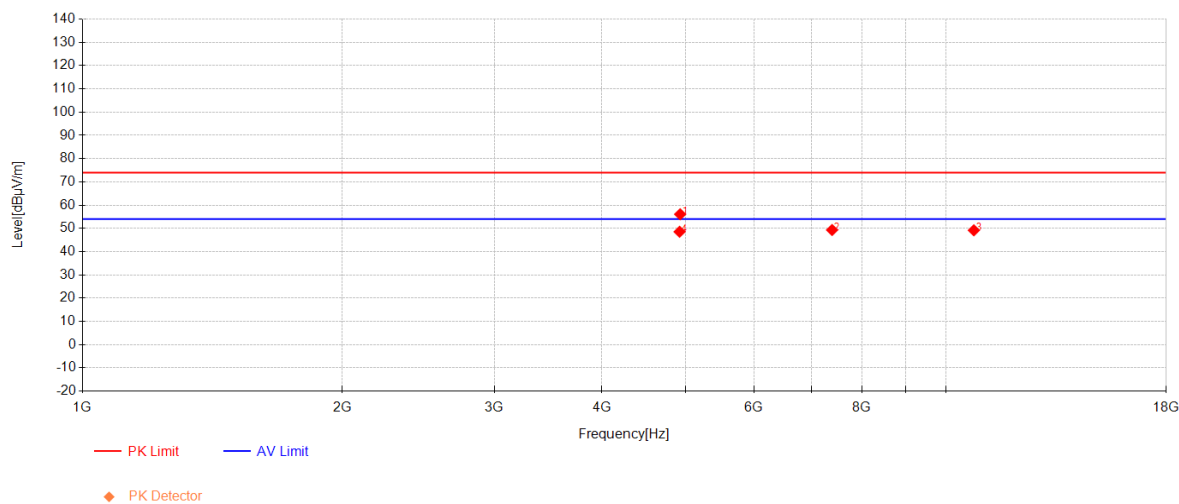
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4926	60.70	33.04	-41.27	52.47	74.00	21.53	Horizontal
2	7380.5	48.36	36.46	-37.79	47.03	74.00	26.97	Horizontal
3	9254.5	45.50	37.68	-34.28	48.89	74.00	25.11	Horizontal
4	4918.5	53.31	33.02	-41.25	45.08	54.00	8.92	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]	Polarity
1	4927	64.31	33.04	-41.27	56.08	74.00	17.92	Vertical
2	7388	50.66	36.47	-37.83	49.30	74.00	24.70	Vertical
3	10782.5	41.50	38.29	-30.62	49.17	74.00	24.83	Vertical
4	4919.5	56.79	33.02	-41.25	48.56	54.00	5.44	Vertical

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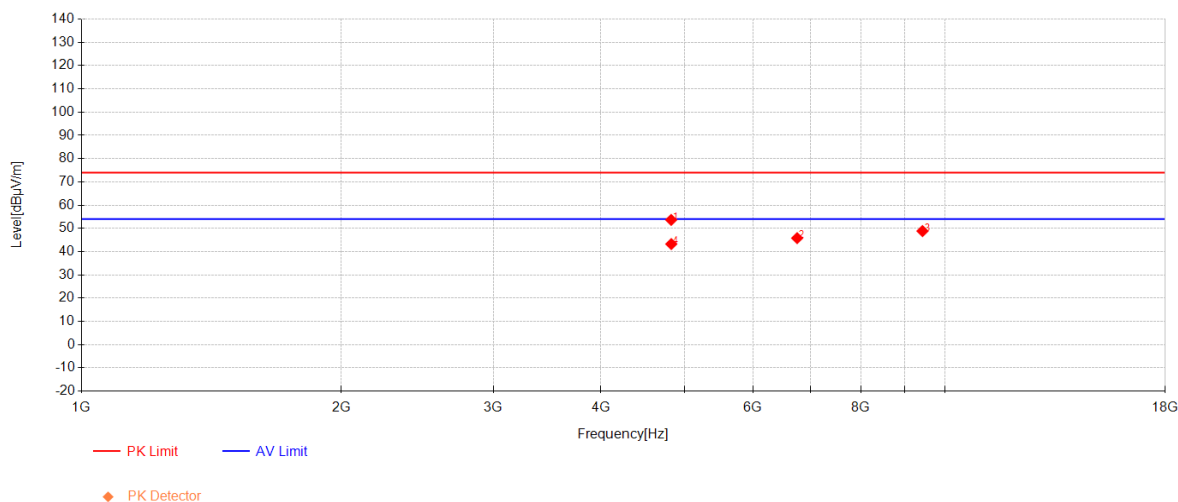
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Report No.: SUCR241100045504

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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]	Polarity
1	4823	62.27	32.81	-41.43	53.65	74.00	20.35	Horizontal
2	6748.5	48.53	35.90	-38.62	45.81	74.00	28.19	Horizontal
3	9427	44.91	37.73	-33.79	48.85	74.00	25.15	Horizontal
4	4824.5	51.88	32.81	-41.43	43.27	54.00	10.73	Horizontal

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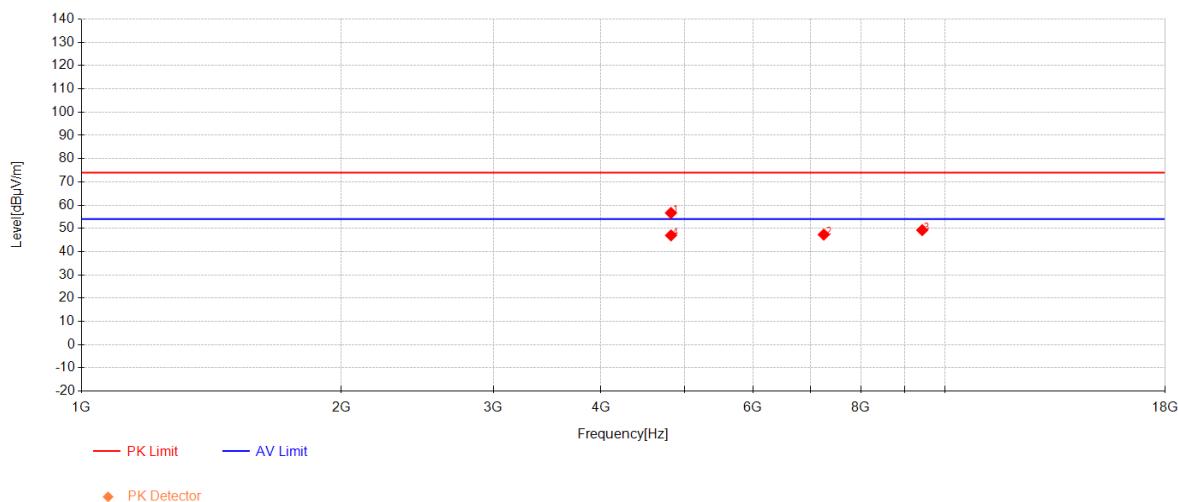
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Report No.: SUCR241100045504

Rev.: 01

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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]	Polarity
1	4820	65.28	32.80	-41.44	56.64	74.00	17.36	Vertical
2	7245	48.79	36.29	-37.75	47.34	74.00	26.66	Vertical
3	9420.5	45.30	37.73	-33.78	49.25	74.00	24.75	Vertical
4	4821	55.61	32.81	-41.44	46.98	54.00	7.02	Vertical

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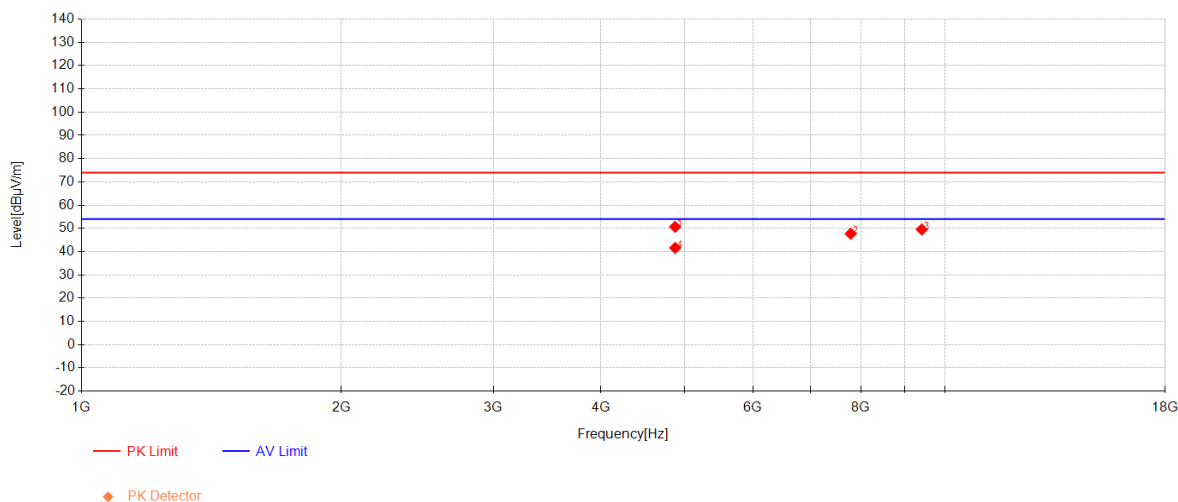
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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## 802.11n20\_Channel 06



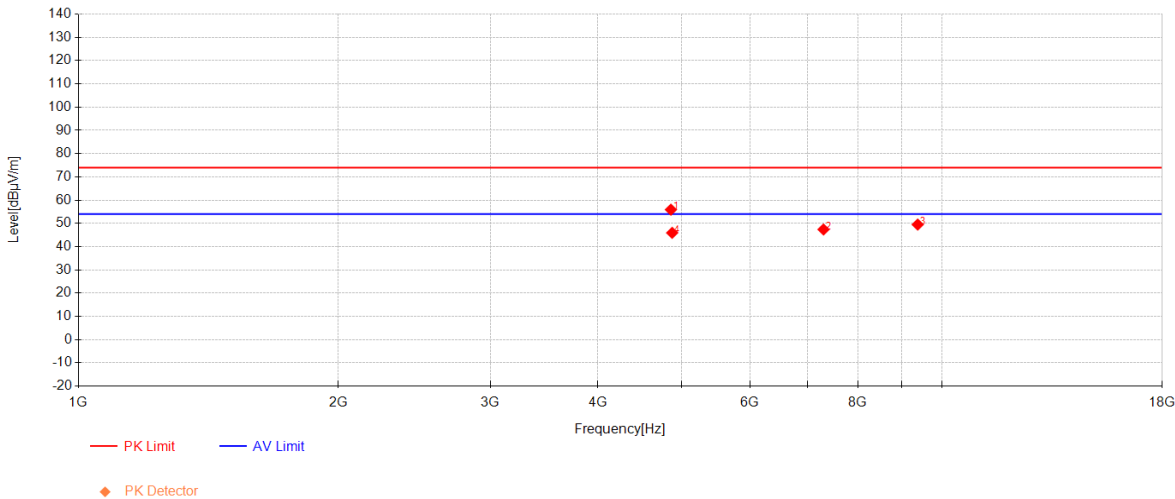
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4874	59.03	32.92	-41.28	50.67	74.00	23.33	Horizontal
2	7785	47.67	36.89	-36.86	47.70	74.00	26.30	Horizontal
3	9409.5	45.59	37.72	-33.76	49.55	74.00	24.45	Horizontal
4	4874.5	49.95	32.92	-41.28	41.60	54.00	12.40	Horizontal

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### 802.11n20\_Channel 06



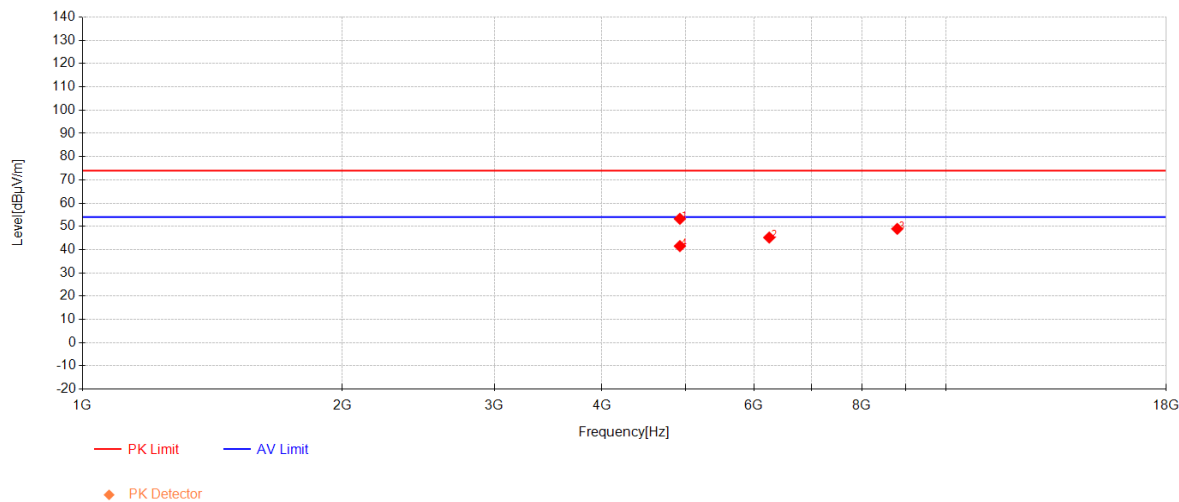
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4858	64.34	32.89	-41.33	55.90	74.00	18.10	Vertical
2	7298	48.40	36.36	-37.37	47.38	74.00	26.62	Vertical
3	9382	45.60	37.71	-33.82	49.49	74.00	24.51	Vertical
4	4874.5	54.29	32.92	-41.28	45.94	54.00	8.06	Vertical

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### 802.11n20\_Channel 11



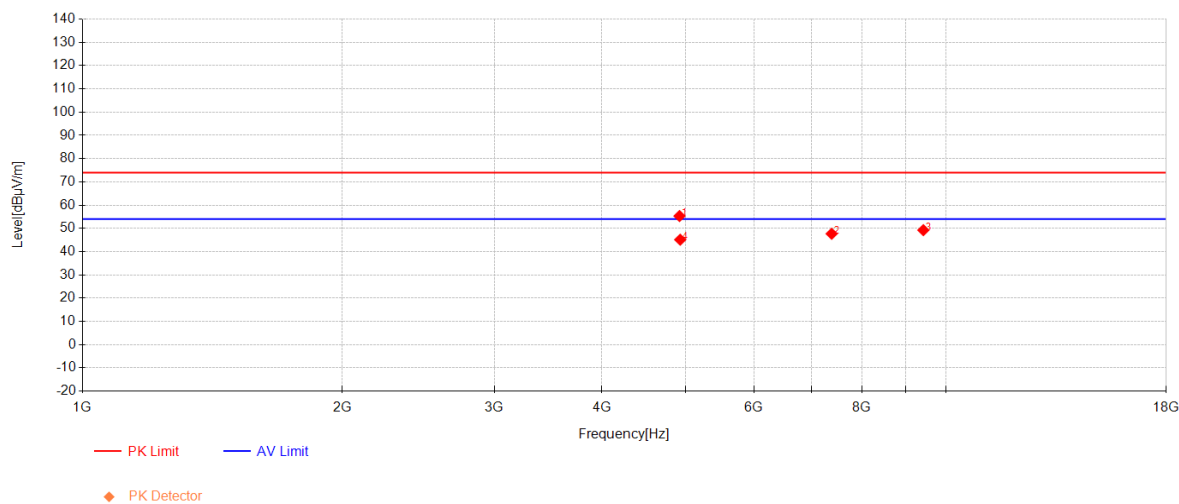
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4923	61.48	33.03	-41.26	53.25	74.00	20.75	Horizontal
2	6248	49.49	35.30	-39.58	45.21	74.00	28.79	Horizontal
3	8790	46.39	37.50	-34.95	48.93	74.00	25.07	Horizontal
4	4923	49.76	33.03	-41.26	41.53	54.00	12.47	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]	Polarity
1	4918	63.53	33.02	-41.25	55.30	74.00	18.70	Vertical
2	7379.5	49.02	36.46	-37.78	47.69	74.00	26.31	Vertical
3	9424.5	45.29	37.73	-33.78	49.24	74.00	24.76	Vertical
4	4927.5	53.36	33.04	-41.27	45.13	54.00	8.87	Vertical

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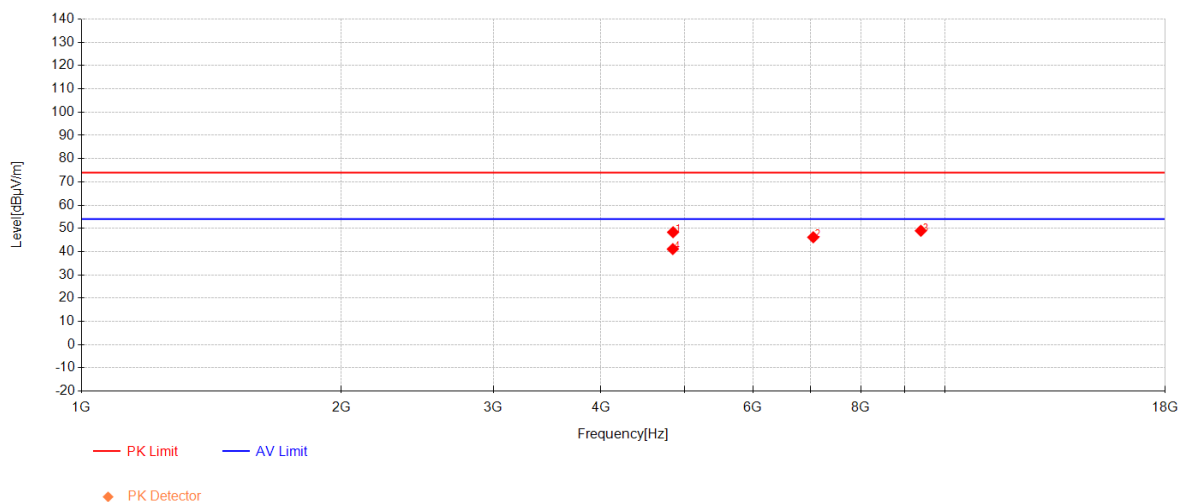
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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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]	Polarity
1	4847.5	56.84	32.86	-41.36	48.35	74.00	25.65	Horizontal
2	7044.5	48.37	36.05	-38.26	46.16	74.00	27.84	Horizontal
3	9386.5	45.05	37.72	-33.81	48.96	74.00	25.04	Horizontal
4	4844	49.61	32.86	-41.37	41.10	54.00	12.90	Horizontal

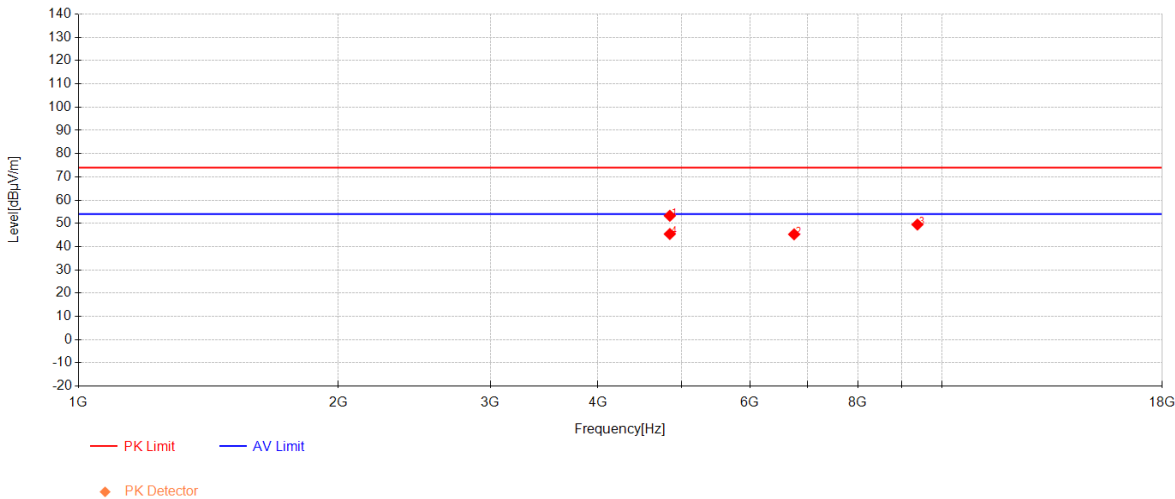
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### 802.11n40\_Channel 03



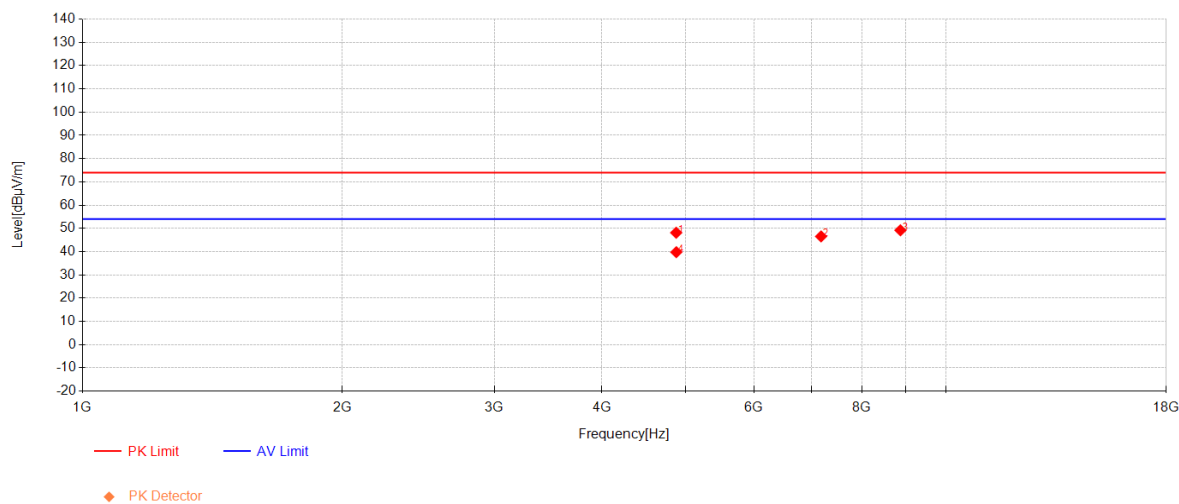
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4844.5	61.79	32.86	-41.37	53.28	74.00	20.72	Vertical
2	6748	48.03	35.90	-38.62	45.31	74.00	28.69	Vertical
3	9375.5	45.63	37.71	-33.85	49.49	74.00	24.51	Vertical
4	4844	53.94	32.86	-41.37	45.43	54.00	8.57	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]	Polarity
1	4875	56.49	32.93	-41.28	48.14	74.00	25.86	Horizontal
2	7174	48.41	36.21	-38.08	46.54	74.00	27.46	Horizontal
3	8864.5	46.62	37.53	-34.97	49.18	74.00	24.82	Horizontal
4	4876.5	48.11	32.93	-41.27	39.77	54.00	14.23	Horizontal

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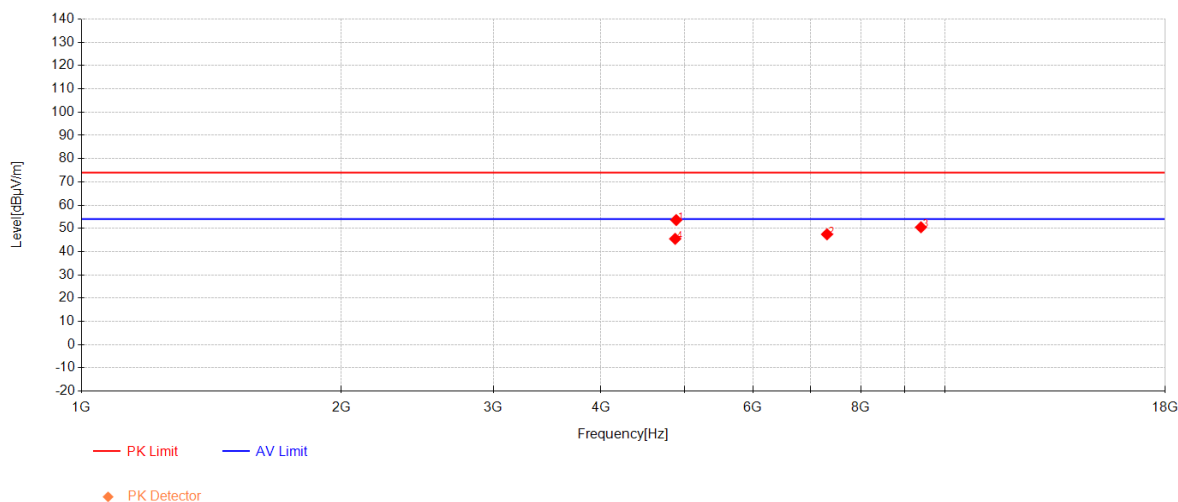
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241100045504

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## 802.11n40\_Channel 06



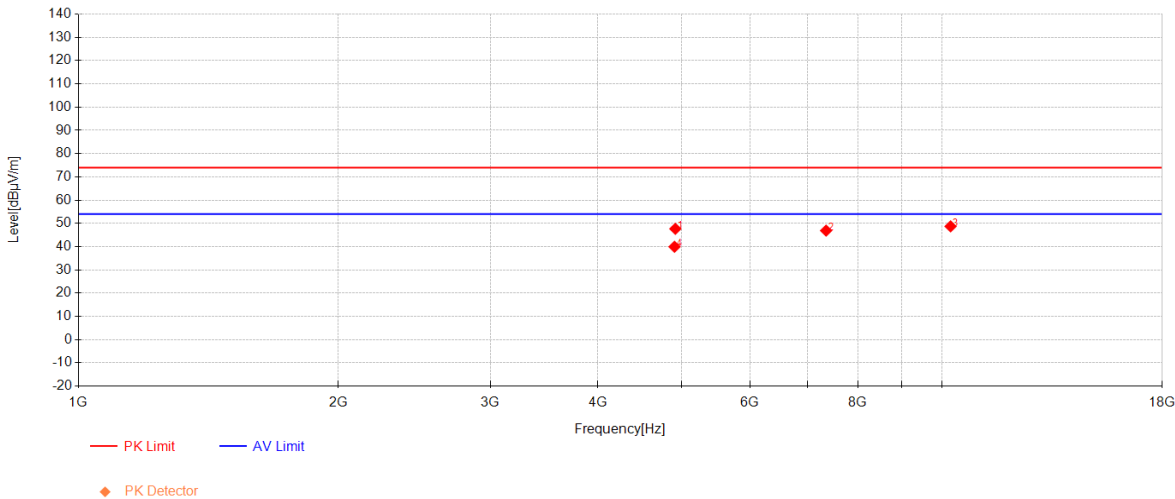
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4888.5	61.86	32.95	-41.23	53.58	74.00	20.42	Vertical
2	7307.5	48.49	36.37	-37.40	47.46	74.00	26.54	Vertical
3	9389	46.56	37.72	-33.80	50.48	74.00	23.52	Vertical
4	4874.5	53.85	32.92	-41.28	45.50	54.00	8.50	Vertical

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### 802.11n40\_Channel 09



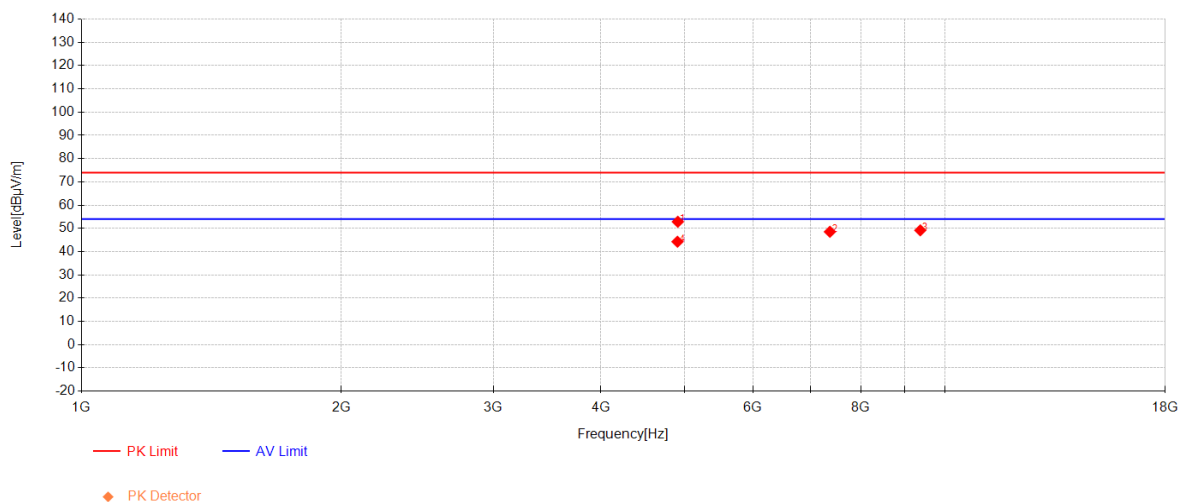
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4916	55.89	33.02	-41.24	47.66	74.00	26.34	Horizontal
2	7349	48.10	36.42	-37.62	46.90	74.00	27.10	Horizontal
3	10242	42.82	38.02	-32.12	48.73	74.00	25.27	Horizontal
4	4904.5	48.16	32.99	-41.21	39.94	54.00	14.06	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]	Polarity
1	4909	61.07	33.00	-41.22	52.85	74.00	21.15	Vertical
2	7364	49.80	36.44	-37.70	48.54	74.00	25.46	Vertical
3	9372	45.31	37.71	-33.86	49.16	74.00	24.84	Vertical
4	4904.5	52.49	32.99	-41.21	44.27	54.00	9.73	Vertical

#### Remark:

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

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

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

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

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

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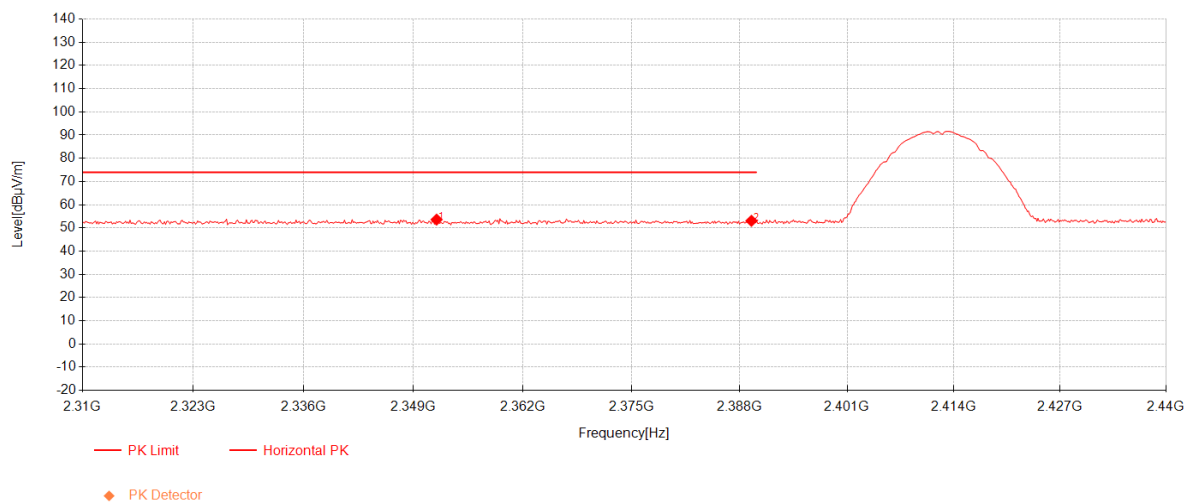
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Restricted bands around fundamental frequency  
802.11b\_Channel 01



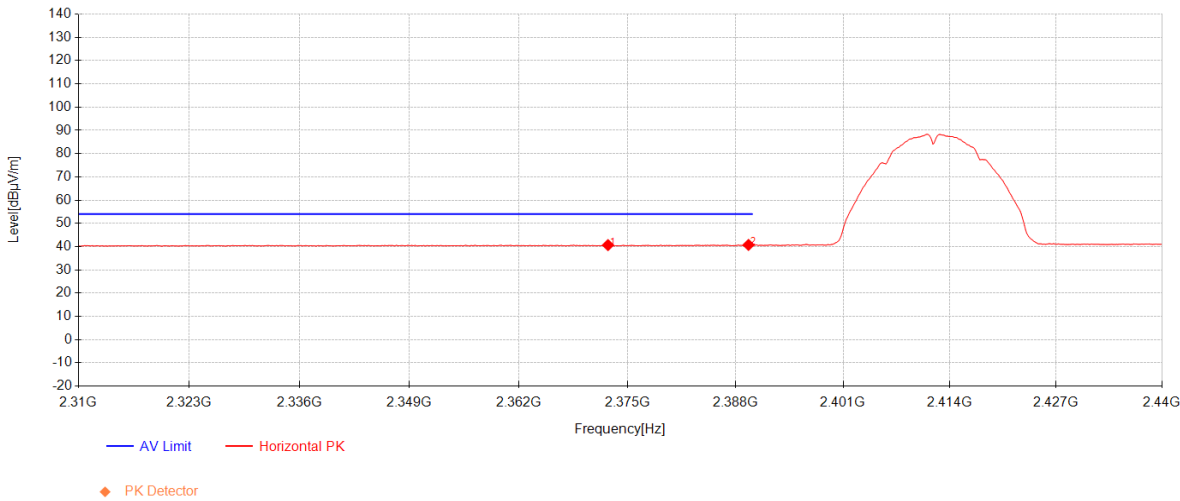
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2351.73	49.79	27.07	-23.29	53.58	74.00	20.42	Horizontal
2	2389.43	49.22	27.16	-23.31	53.06	74.00	20.94	Horizontal

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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]	Polarity
1	2372.66	36.84	27.12	-23.30	40.66	54.00	13.34	Horizontal
2	2389.56	36.90	27.16	-23.31	40.74	54.00	13.26	Horizontal

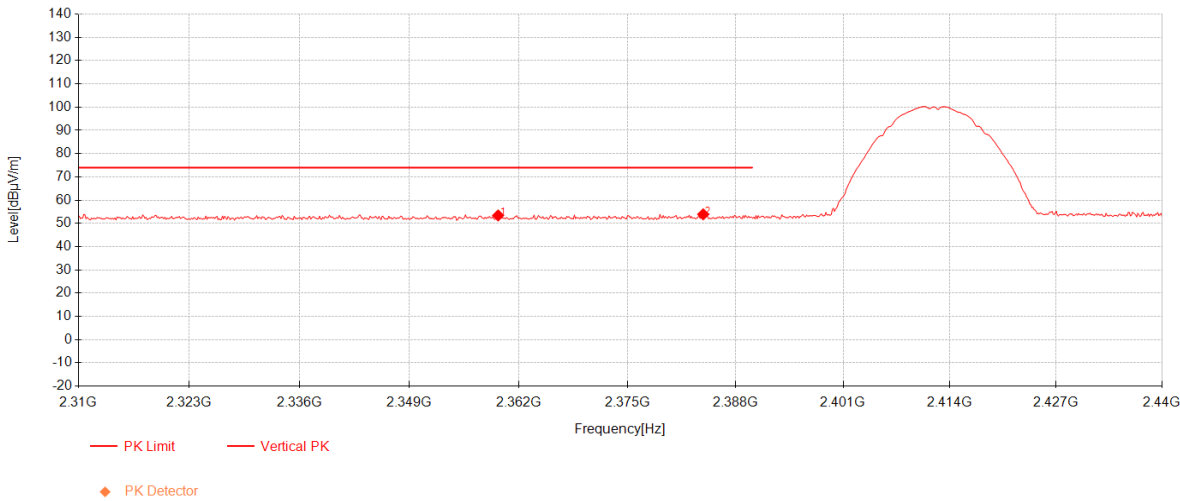
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### 802.11b\_Channel 01



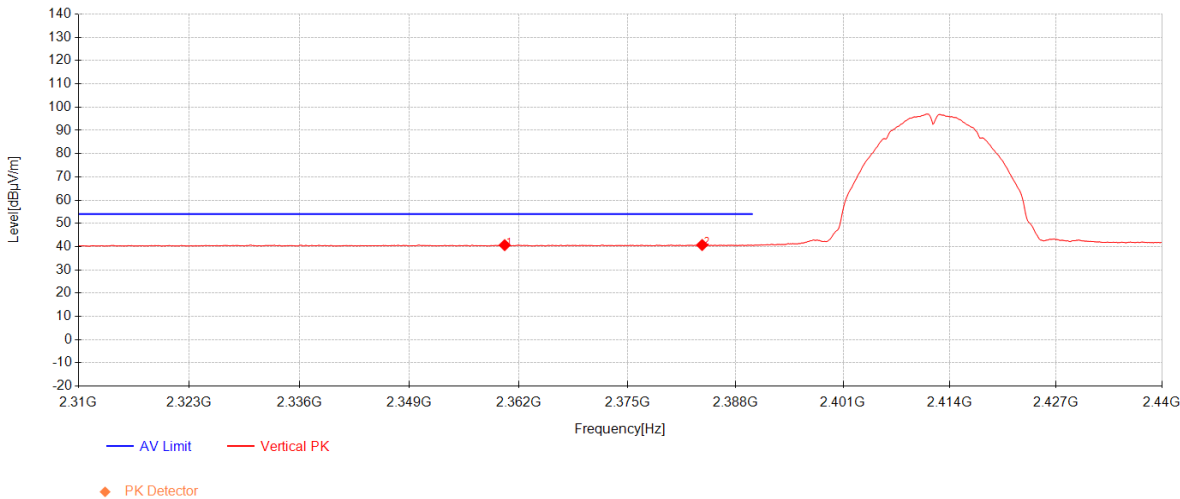
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2	2384.1	50.06	27.15	-23.31	53.90	74.00	20.10	Vertical

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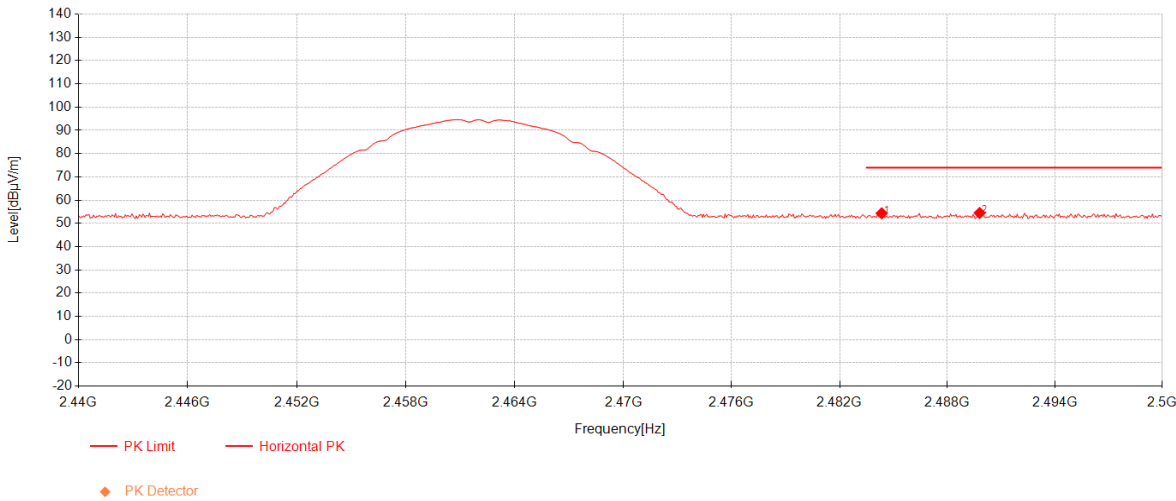
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2	2383.97	36.85	27.14	-23.31	40.69	54.00	13.31	Vertical

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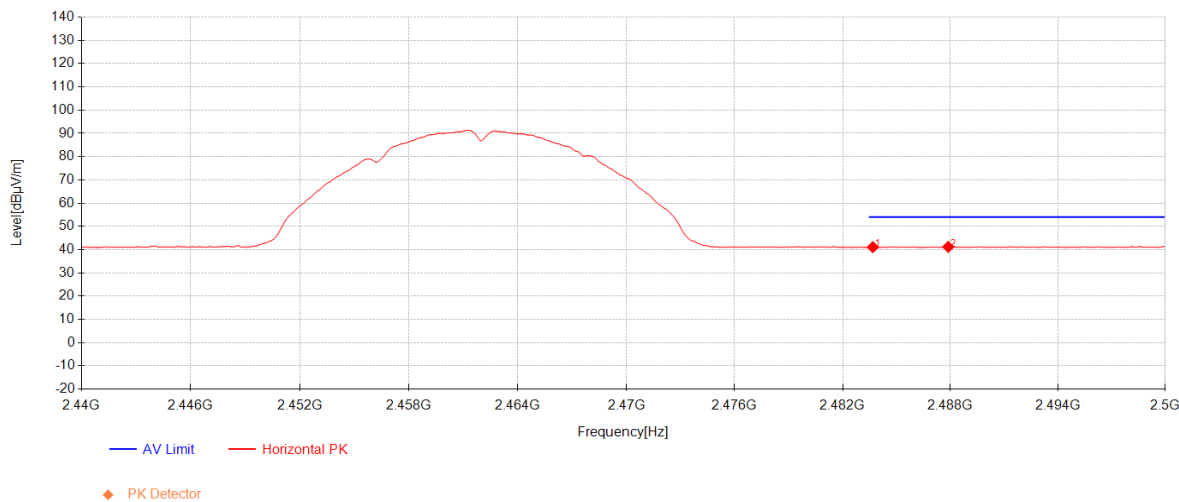
Data List								
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2	2489.8	50.38	27.38	-23.27	54.49	74.00	19.51	Horizontal

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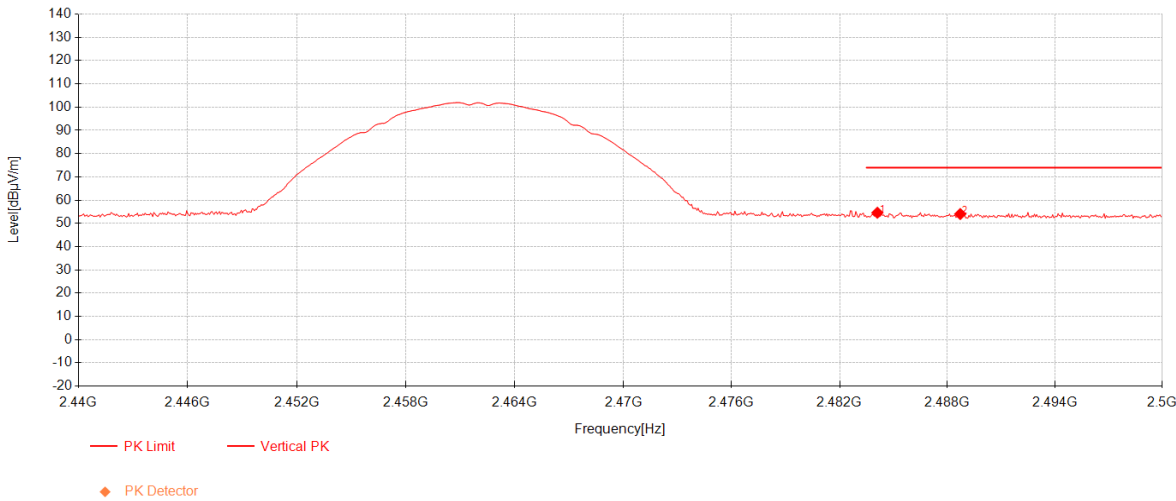
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	36.98	27.36	-23.27	41.07	54.00	12.93	Horizontal
2	2487.88	37.08	27.37	-23.27	41.19	54.00	12.81	Horizontal

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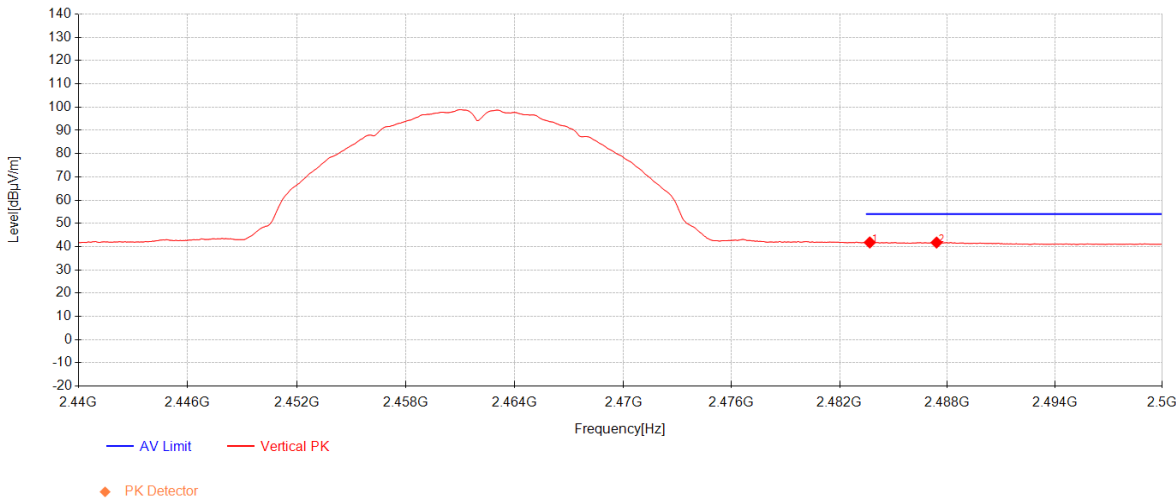
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.1	50.48	27.37	-23.27	54.58	74.00	19.42	Vertical
2	2488.72	49.92	27.38	-23.27	54.03	74.00	19.97	Vertical

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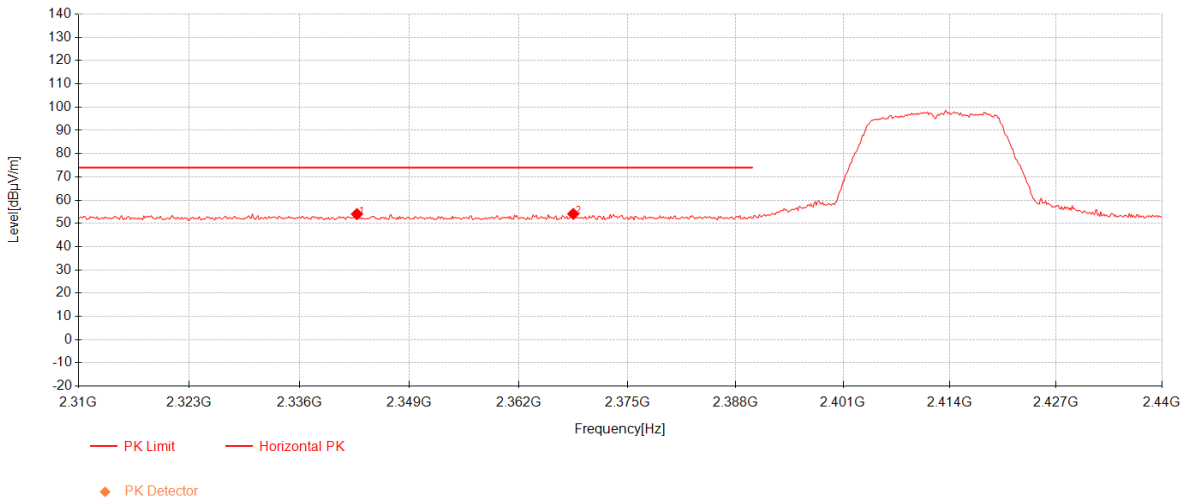
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	37.70	27.36	-23.27	41.79	54.00	12.21	Vertical
2	2487.4	37.66	27.37	-23.27	41.76	54.00	12.24	Vertical

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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]	Polarity
1	2342.76	50.23	27.05	-23.28	54.00	74.00	20.00	Horizontal
2	2368.5	50.26	27.11	-23.30	54.07	74.00	19.93	Horizontal

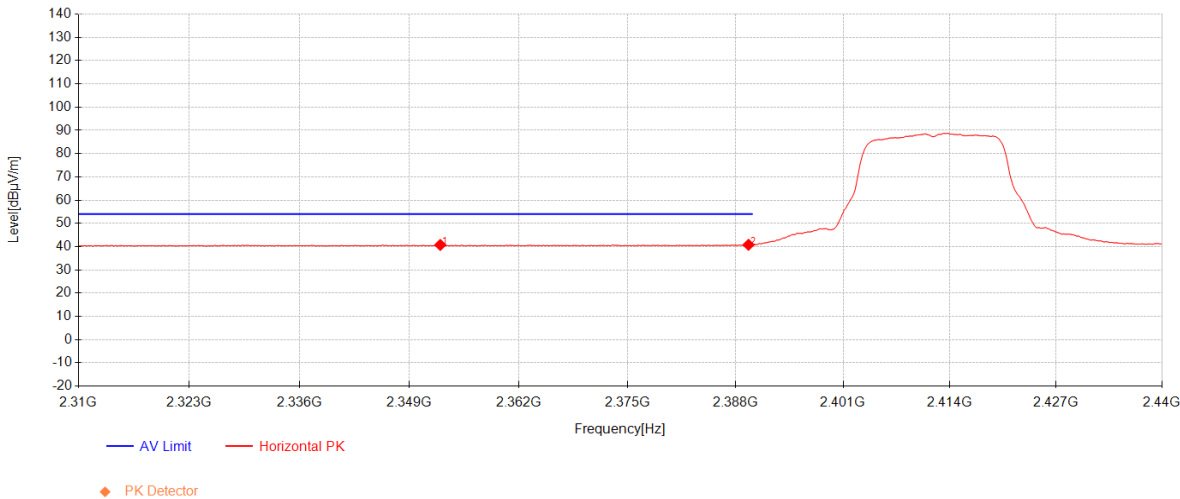
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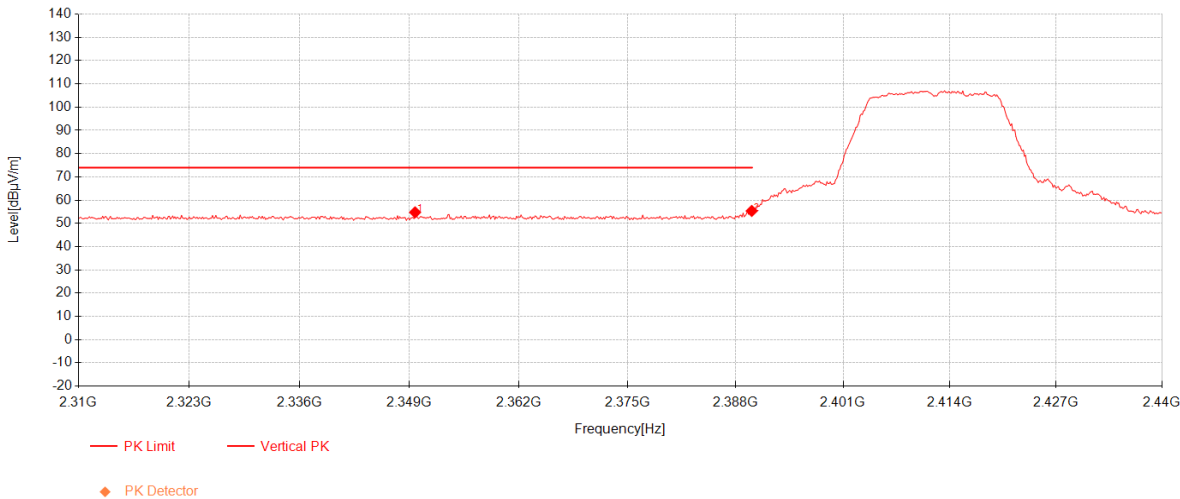
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2352.64	36.94	27.08	-23.29	40.73	54.00	13.27	Horizontal
2	2389.56	36.95	27.16	-23.31	40.79	54.00	13.21	Horizontal

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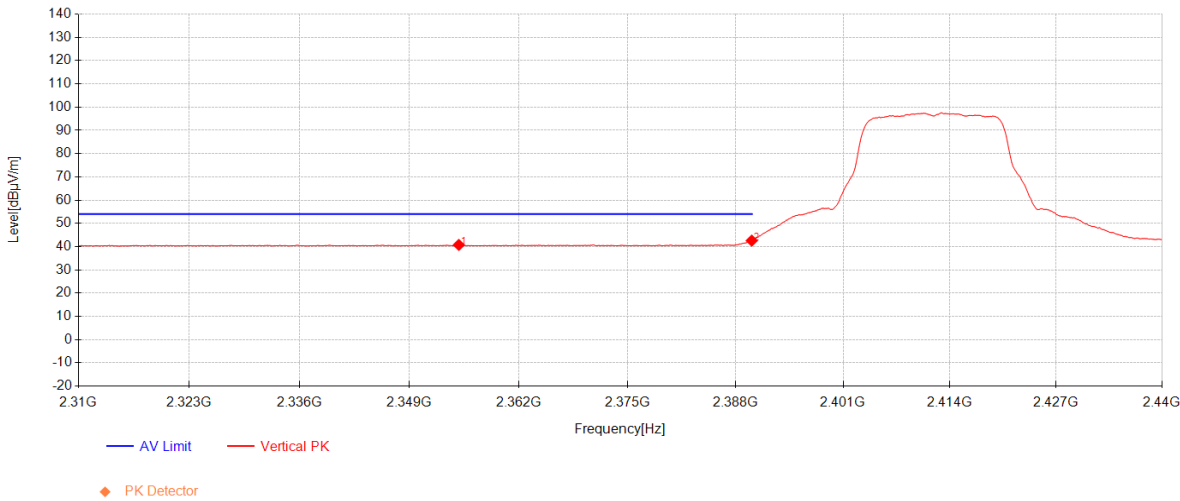
Data List								
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1	2349.65	50.97	27.07	-23.28	54.75	74.00	19.25	Vertical
2	2389.95	51.51	27.16	-23.31	55.35	74.00	18.65	Vertical

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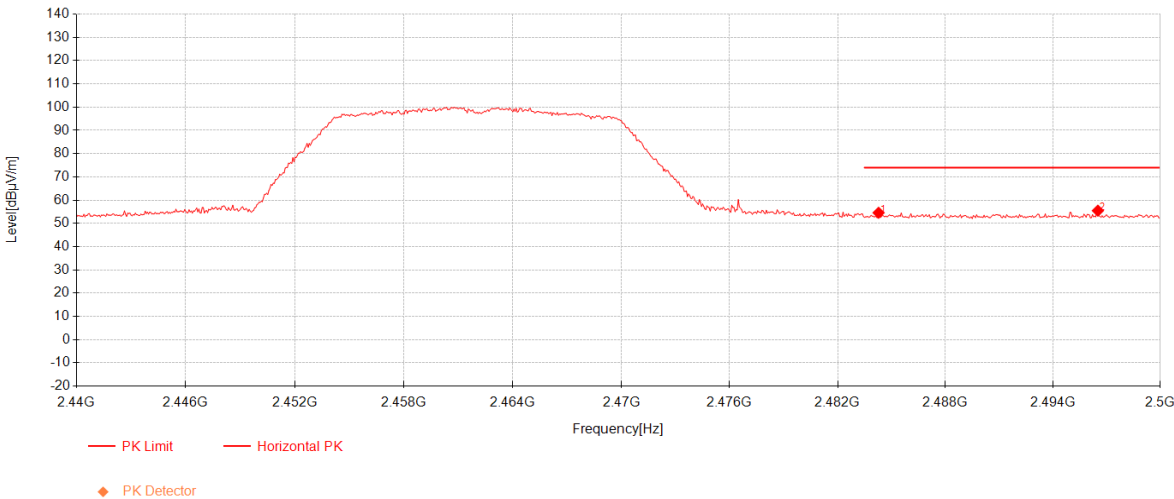
Data List								
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1	2354.85	36.95	27.08	-23.29	40.74	54.00	13.26	Vertical
2	2389.95	38.74	27.16	-23.31	42.58	54.00	11.42	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2484.28	50.47	27.37	-23.27	54.57	74.00	19.43	Horizontal
2	2496.52	51.35	27.39	-23.26	55.48	74.00	18.52	Horizontal

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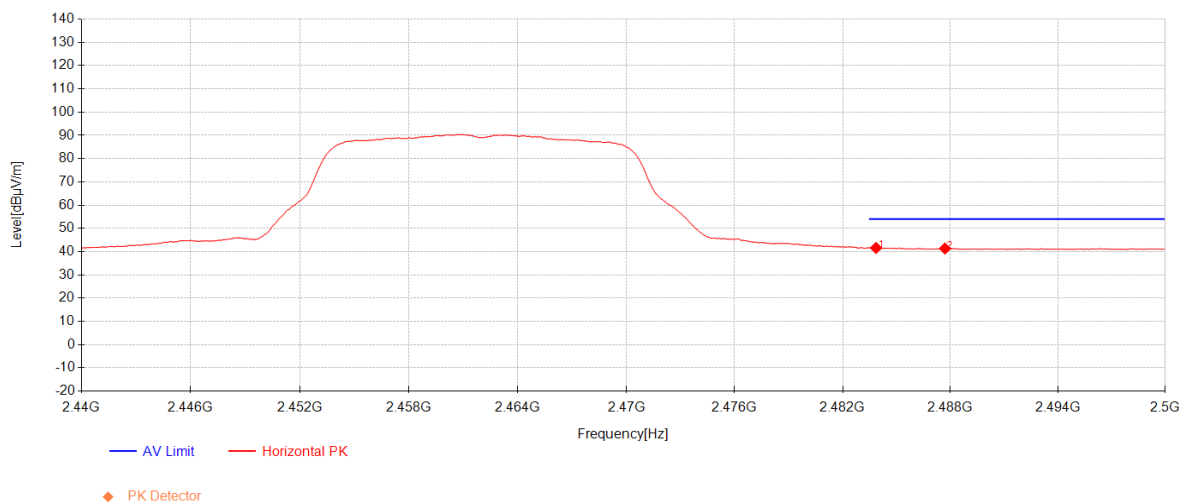
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241100045504

Rev.: 01

Page: 143 of 161

## 802.11g\_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.86	37.50	27.36	-23.27	41.59	54.00	12.41	Horizontal
2	2487.7	37.24	27.37	-23.27	41.35	54.00	12.65	Horizontal

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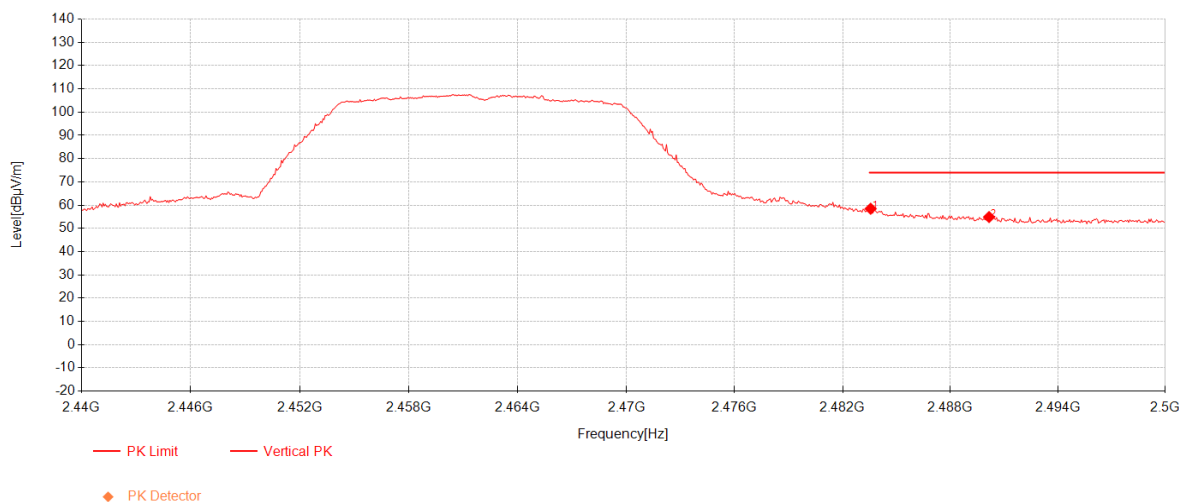
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Report No.: SUCR241100045504

Rev.: 01

Page: 144 of 161

## 802.11g\_Channel 11



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.56	54.36	27.36	-23.27	58.45	74.00	15.55	Vertical
2	2490.16	50.77	27.38	-23.27	54.88	74.00	19.12	Vertical

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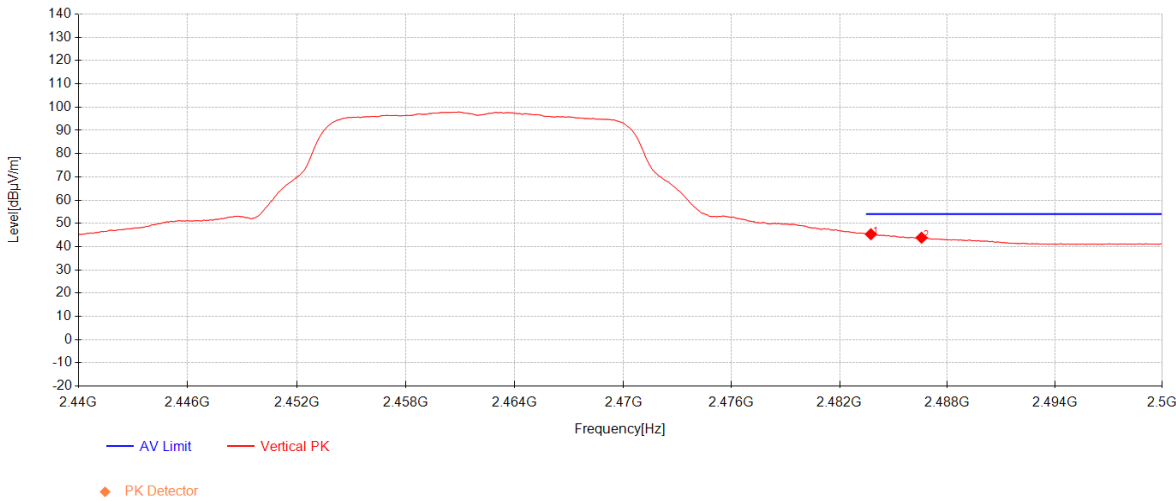
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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.74	41.25	27.36	-23.27	45.34	54.00	8.66	Vertical
2	2486.56	39.73	27.37	-23.27	43.83	54.00	10.17	Vertical

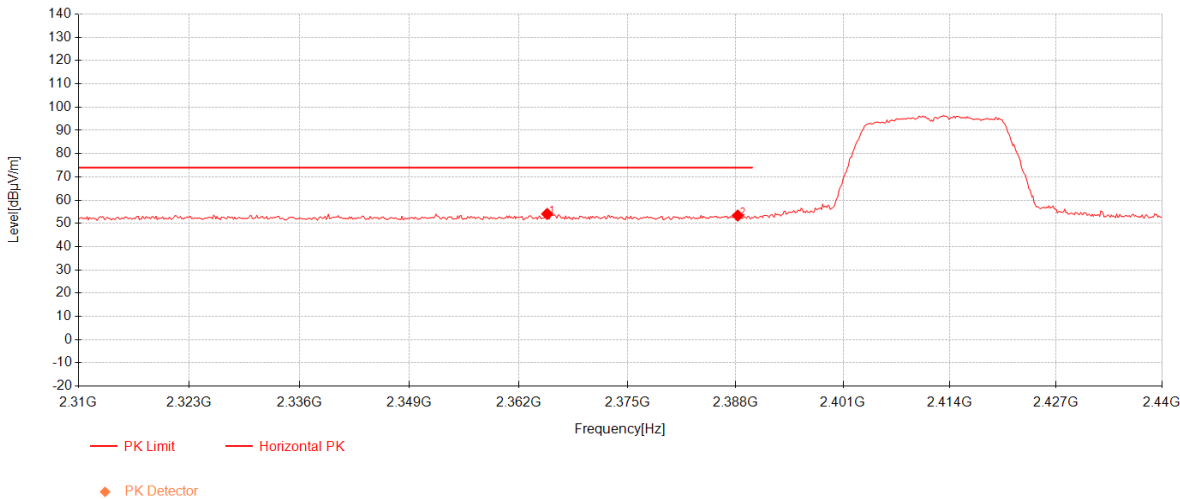
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### 802.11n20\_Channel 01



#### Data List

NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2365.38	50.26	27.10	-23.30	54.07	74.00	19.93	Horizontal
2	2388.26	49.53	27.15	-23.31	53.37	74.00	20.63	Horizontal

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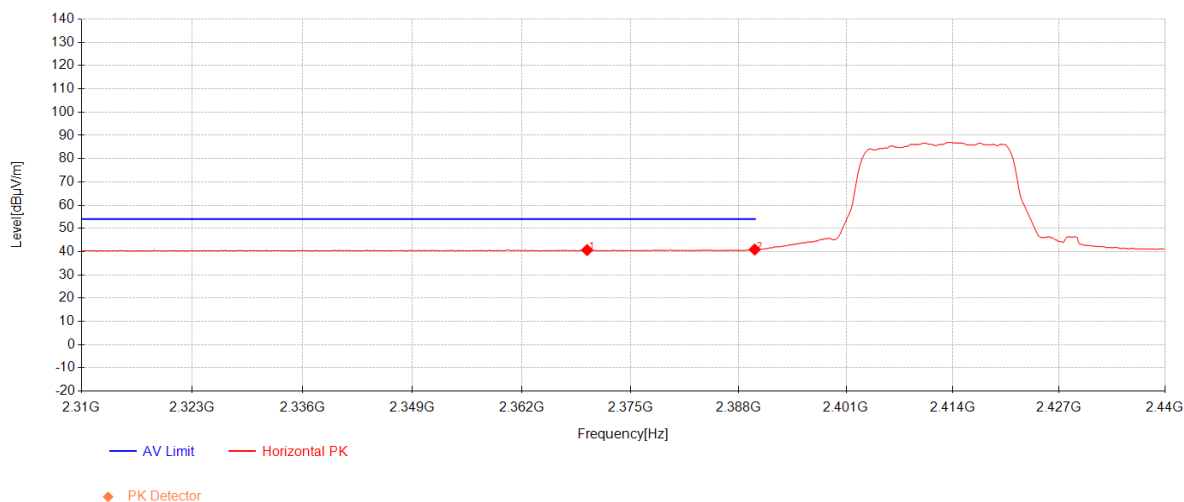
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

Report No.: SUCR241100045504

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Page: 147 of 161

## 802.11n20\_Channel 01



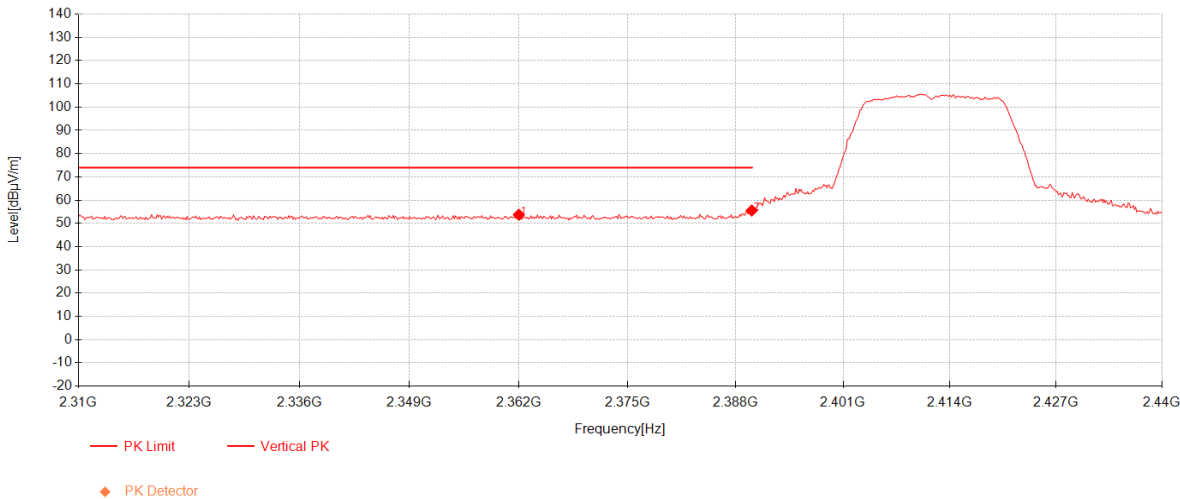
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1	2369.8	36.86	27.11	-23.30	40.67	54.00	13.33	Horizontal
2	2389.95	37.06	27.16	-23.31	40.90	54.00	13.10	Horizontal

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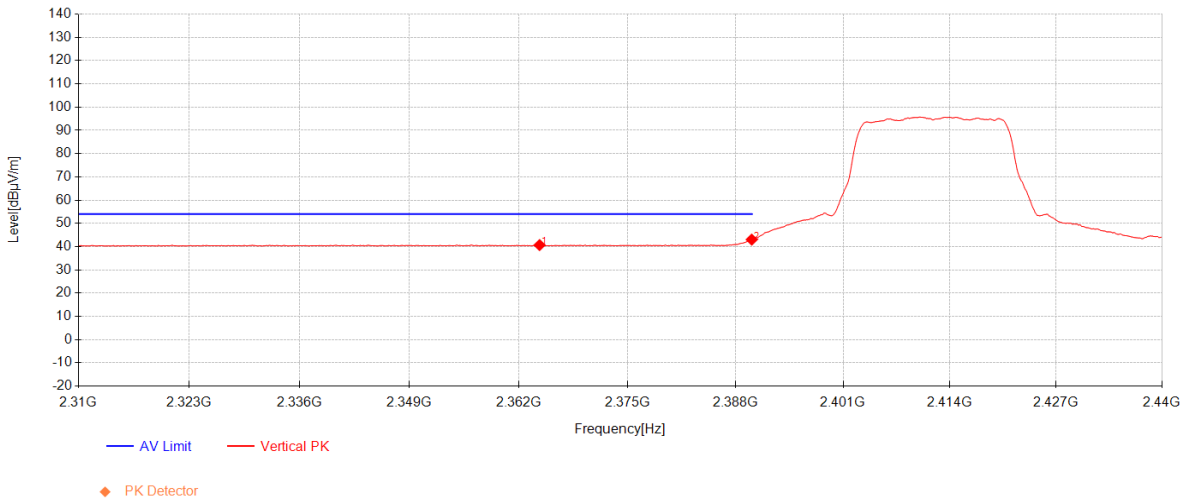
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NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2362	49.93	27.10	-23.29	53.73	74.00	20.27	Vertical
2	2389.95	51.70	27.16	-23.31	55.54	74.00	18.46	Vertical

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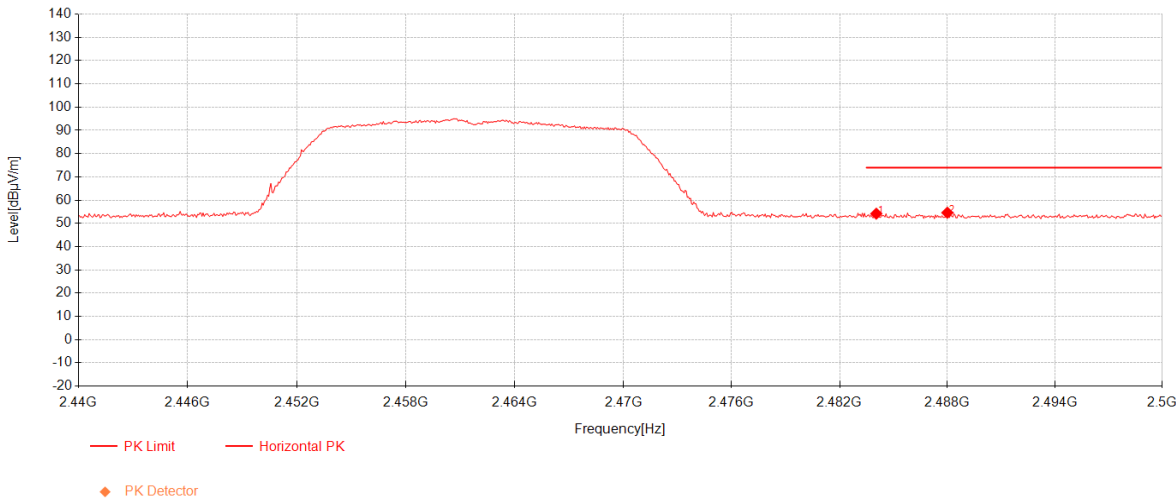
Data List								
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1	2364.47	36.87	27.10	-23.30	40.68	54.00	13.32	Vertical
2	2389.95	39.18	27.16	-23.31	43.02	54.00	10.98	Vertical

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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]	Polarity
1	2484.04	50.07	27.36	-23.27	54.17	74.00	19.83	Horizontal
2	2488	50.48	27.37	-23.27	54.59	74.00	19.41	Horizontal

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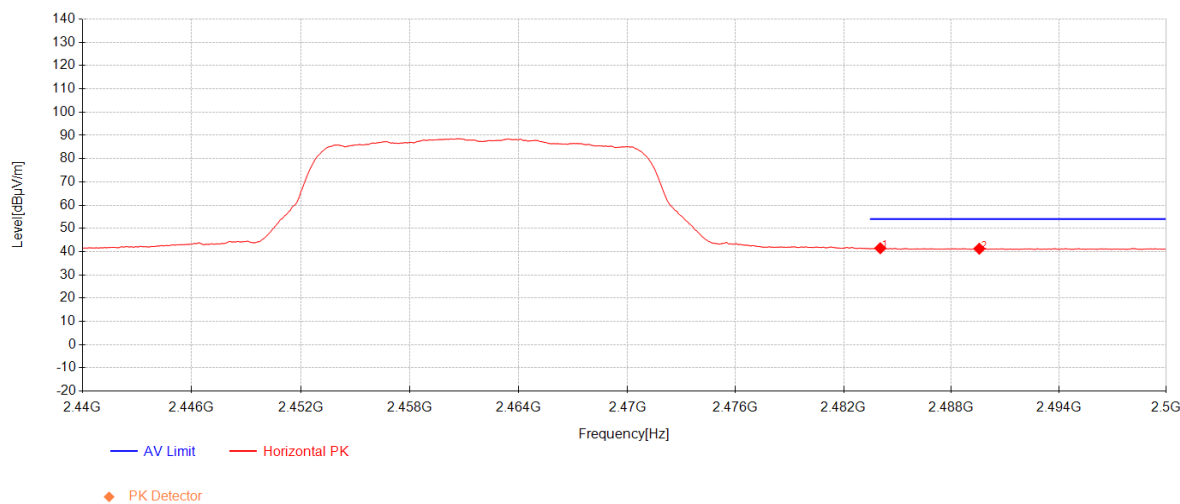
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802.11n20\_Channel 11



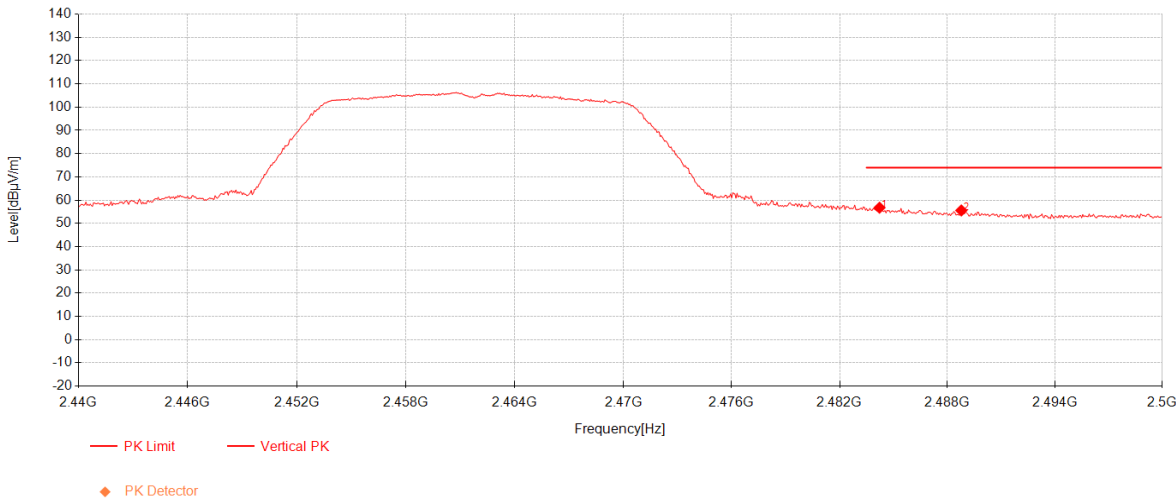
Data List								
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1	2484.04	37.36	27.36	-23.27	41.46	54.00	12.54	Horizontal
2	2489.56	37.15	27.38	-23.27	41.26	54.00	12.74	Horizontal

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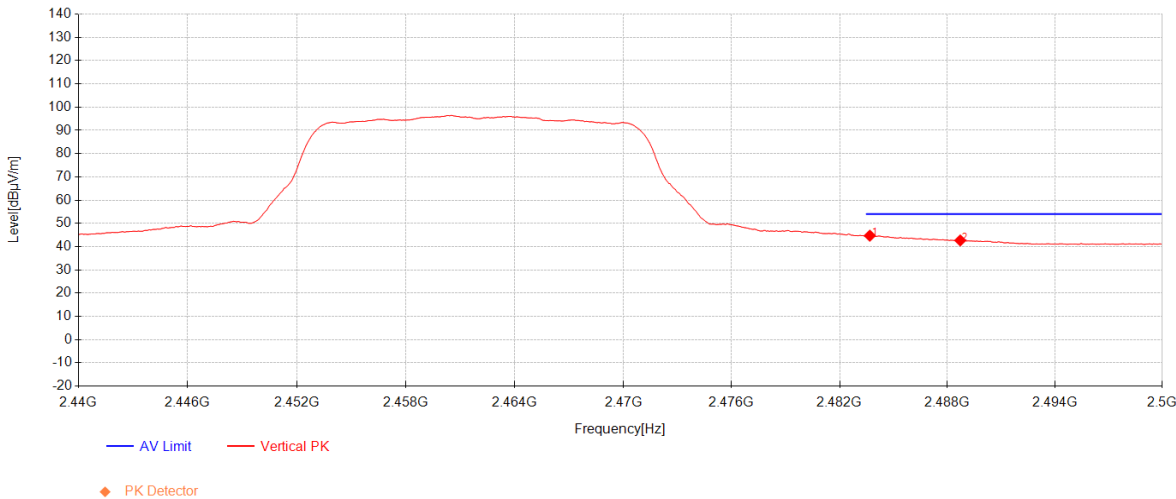
Data List								
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1	2484.22	52.65	27.37	-23.27	56.75	74.00	17.25	Vertical
2	2488.78	51.46	27.38	-23.27	55.57	74.00	18.43	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.68	40.62	27.36	-23.27	44.71	54.00	9.29	Vertical
2	2488.72	38.56	27.38	-23.27	42.67	54.00	11.33	Vertical

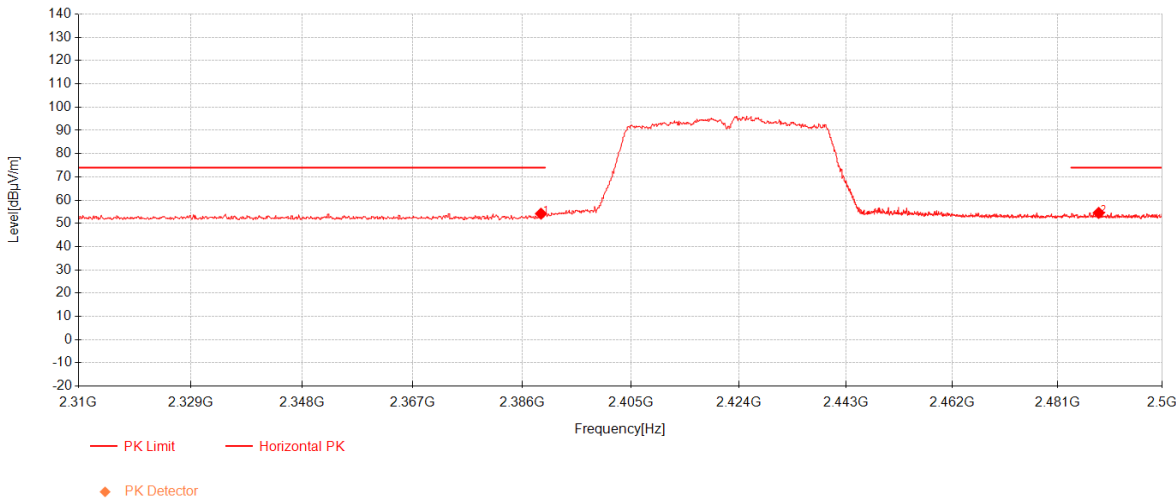
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### 802.11n40\_Channel 03



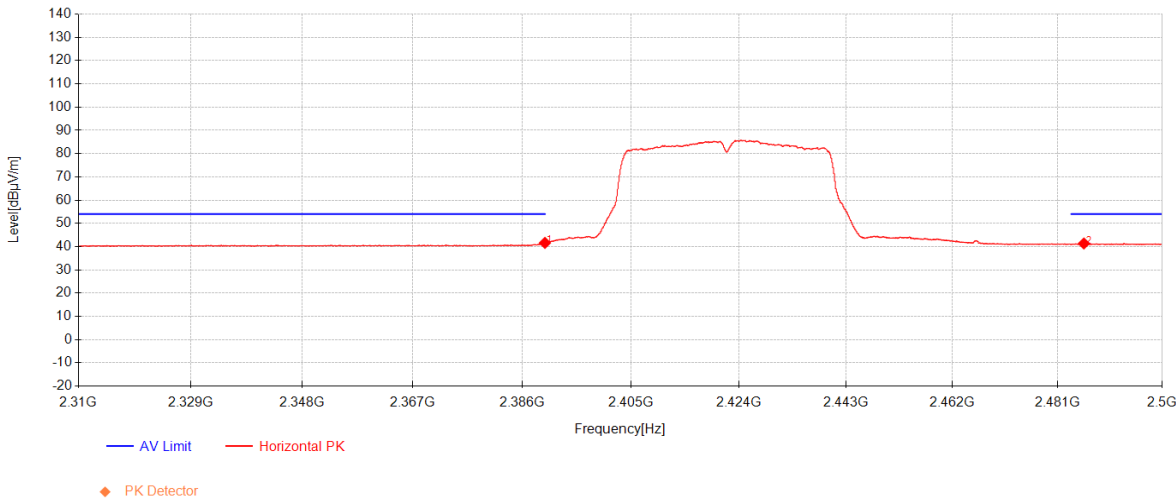
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.3	50.33	27.16	-23.31	54.17	74.00	19.83	Horizontal
2	2488.48	50.40	27.37	-23.27	54.51	74.00	19.49	Horizontal

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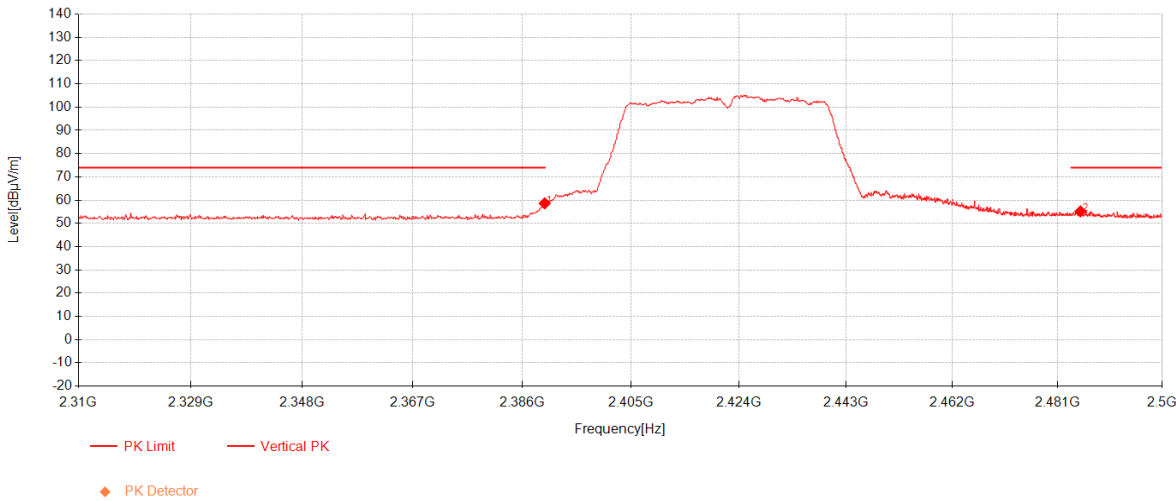
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2	2485.795	37.25	27.37	-23.27	41.35	54.00	12.65	Horizontal

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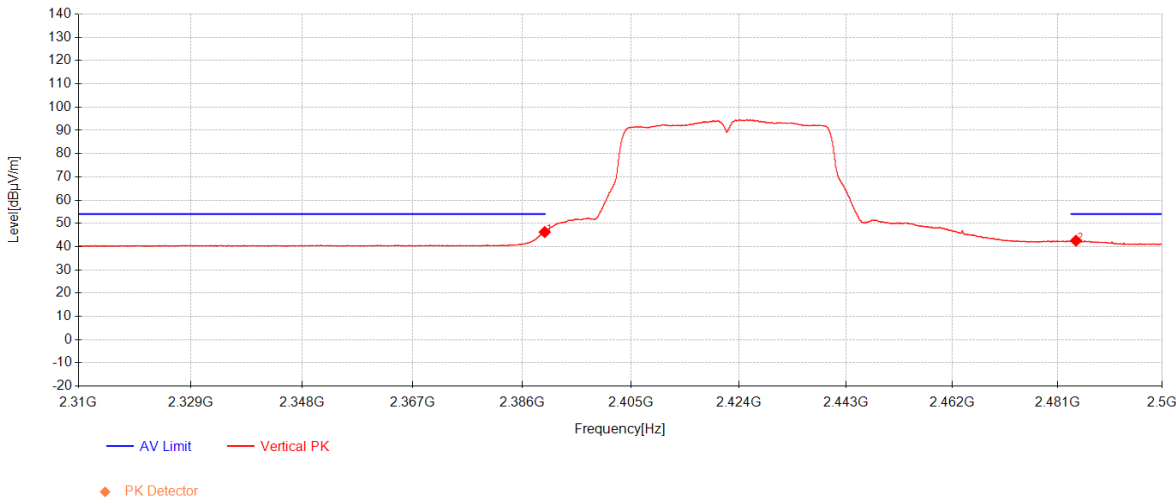
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2	2485.18	51.05	27.37	-23.27	55.15	74.00	18.85	Vertical

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Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.95	42.43	27.16	-23.31	46.27	54.00	7.73	Vertical
2	2484.355	38.45	27.37	-23.27	42.55	54.00	11.45	Vertical

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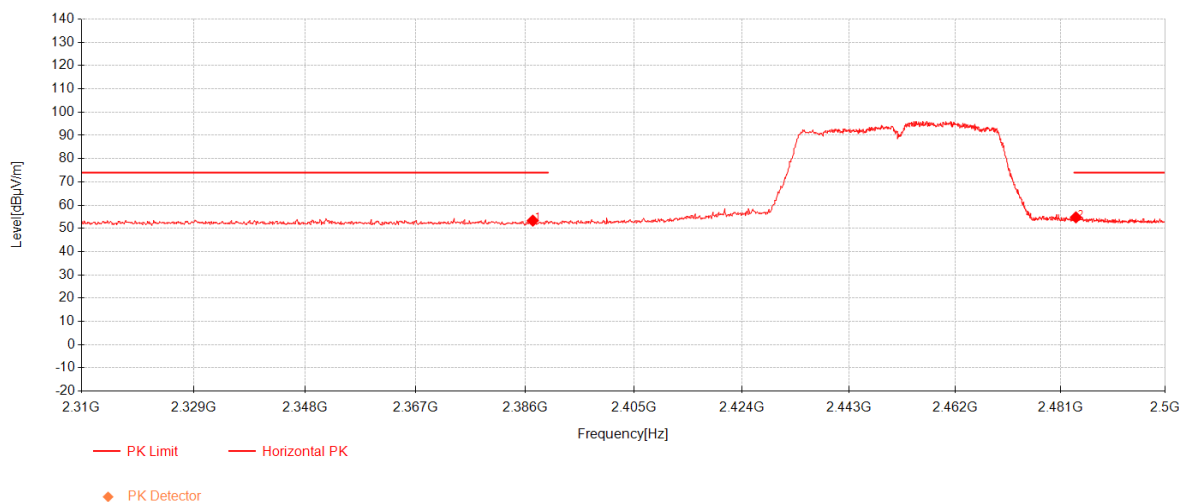
# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd

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## 802.11n40\_Channel 09



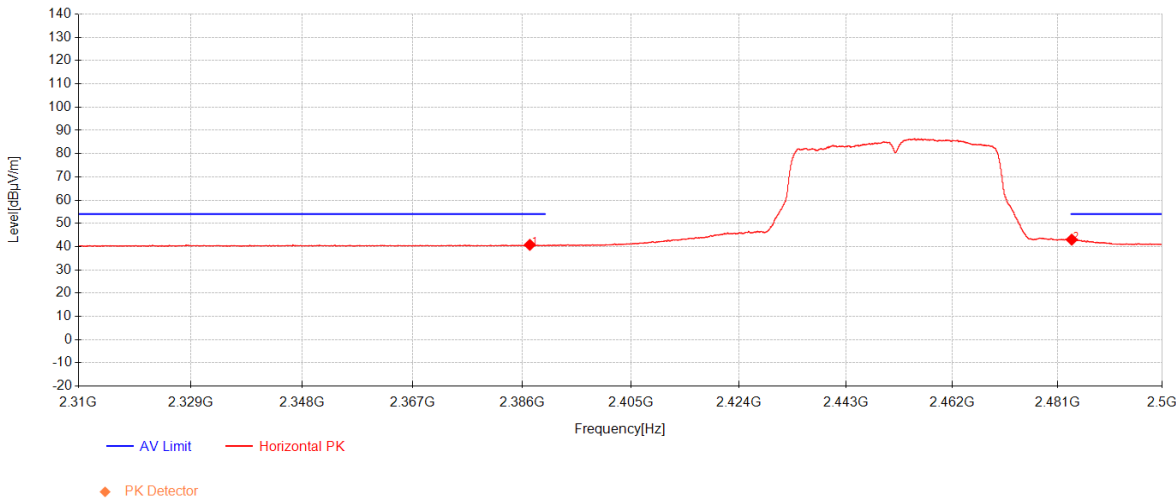
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2	2483.8	50.65	27.36	-23.27	54.74	74.00	19.26	Horizontal

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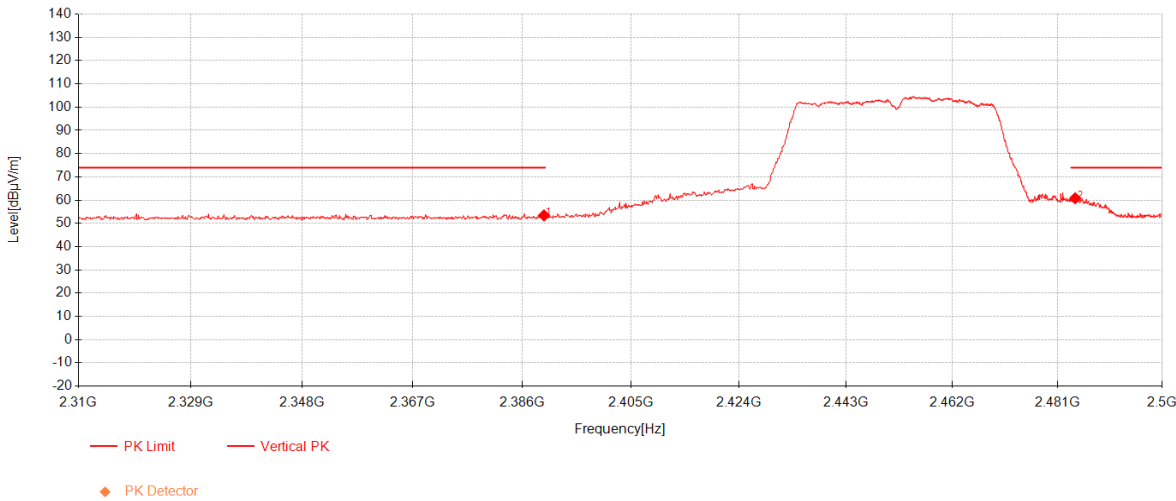
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2387.35	36.93	27.15	-23.31	40.77	54.00	13.23	Horizontal
2	2483.59	38.91	27.36	-23.27	43.00	54.00	11.00	Horizontal

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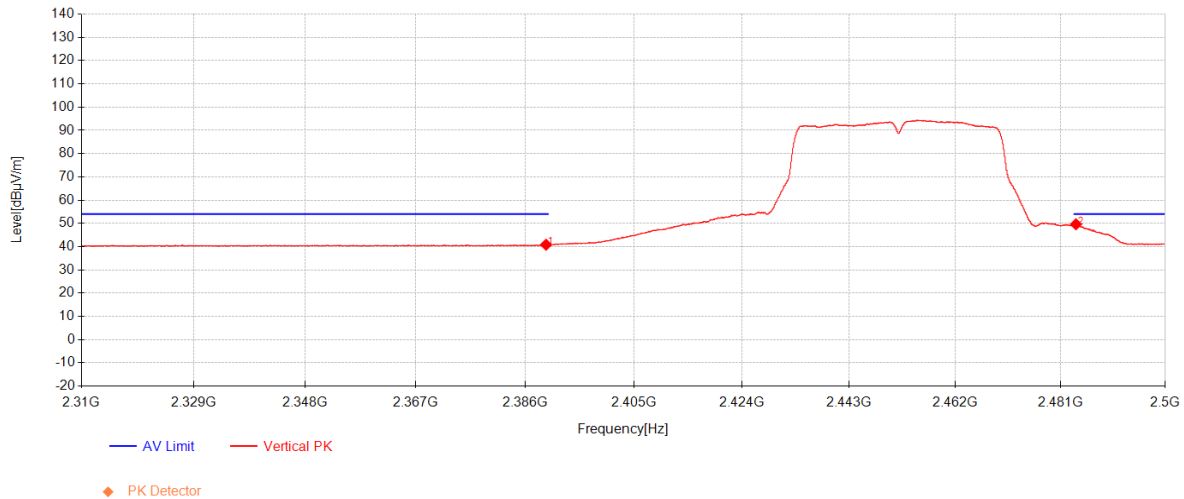
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2389.82	49.60	27.16	-23.31	53.44	74.00	20.56	Vertical
2	2484.22	56.72	27.37	-23.27	60.82	74.00	13.18	Vertical

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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]	Polarity
1	2389.6575	36.98	27.16	-23.31	40.82	54.00	13.18	Vertical
2	2483.815	45.53	27.36	-23.27	49.62	54.00	4.38	Vertical

#### Remark:

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

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

AF = Antenna Factor(dB/m)

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

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

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

---End of Report---

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