

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

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TEST REPORT

Application No.: SUCR2502000112AT
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.: L15C2, L15D2 ♣
♣ 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: 2AH25T3L
Standards: FCC 47 CFR Part 2, Subpart J
FCC 47 CFR Part 15, Subpart C
Date of Receipt: February 25, 2025
Date of Test: March 6, 2025 to April 3, 2025
Date of Issue: April 8, 2025

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

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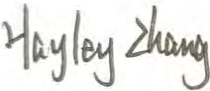


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Version

Revision Record			
Version	Description	Date	Remark
00	Original	April 8, 2025	/

Authorized for issue by:				
Tested By				
		Hayley Zhang / Project Manager		
Approved By				
		Cloud Peng/Technical Manager		



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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, Tizzy Song

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.:	L15C2, L15D2		
Trade Mark:	SUNMI		
Hardware Version:	6225Coreboard_MB_V3.0		
Software Version:	1.0.0		
Power Supply:	24V		
IMEI:	RF Conducted	N/A	
	RSE & AC power line	867438070050376	
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:	☒ SISO	802.11b/g/n	
	☐ MIMO	CDD: 802.11b/g/n: Tx & Rx	
		STBC: 802.11n: Tx & Rx	
		TXBF: 802.11n: Tx & Rx	
☐ Diversity	802.11b/g : Tx & Rx		
Antenna Type:	☐ External, ☒ Internal		
Antenna Gain:	1.88dBi		
	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 L15C2 comes with a printer and L15D2 does not come with a printer, everything else is exactly the same. Based on the above differences, complete testing will be conducted for L15C2 model, while L15D2 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 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 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-04-08-01	2022/11/09	2025/11/08
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2025/02/13	2026/02/12
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/05/09	2025/05/08
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2025/01/21	2026/01/20
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2025/01/15	2026/01/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2025/01/15	2026/01/14
Router	ASUS	GT-AXE11000(FCC ID MSQ-RTAXJF00)	SUWI-03-14-02	NCR	NCR
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18

Conduction Test Equipment					
Test 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	2025/01/15	2026/01/14
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2025/02/13	2026/02/12
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2024/05/06	2025/05/05
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2024/05/06	2025/05/05
Measurement Software	Tonscend	JS32-CE 4.0.0.2	SUWI-02-09-05	NCR	NCR



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9*6*6 Test Equipment					
Test 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-04-02-02	2024/11/25	2027/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2025/02/13	2026/02/12
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/05/08	2025/05/07
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2024/11/21	2025/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2025/01/15	2026/01/14
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	2024/08/22	2025/08/21
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2025/11/24
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2025/05/11
Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2025/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2024/11/19	2025/11/18
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2024/11/19	2025/11/18
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2024/11/19	2025/11/18
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

Remark: NCR=No Calibration Requirement.



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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)
		± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)
Remark: The U _{lab} (lab Uncertainty) is less than U _{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
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. 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. The antenna is Integrated Antenna and no consideration of replacement. The best case gain of the antenna is -1.88dBi. <i>Note:</i> <i>The antenna gain are derived from the gain information report provided by the manufacturer.</i> <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>	



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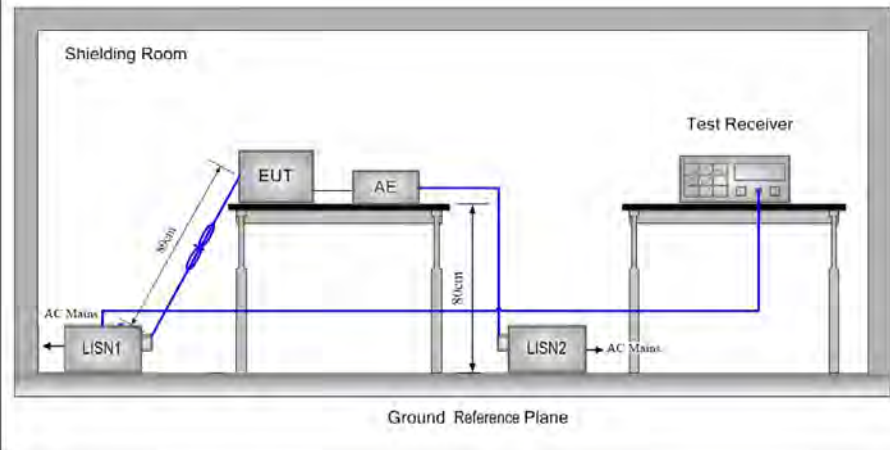
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5.2 AC Power Line Conducted Emissions

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:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 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.		

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + 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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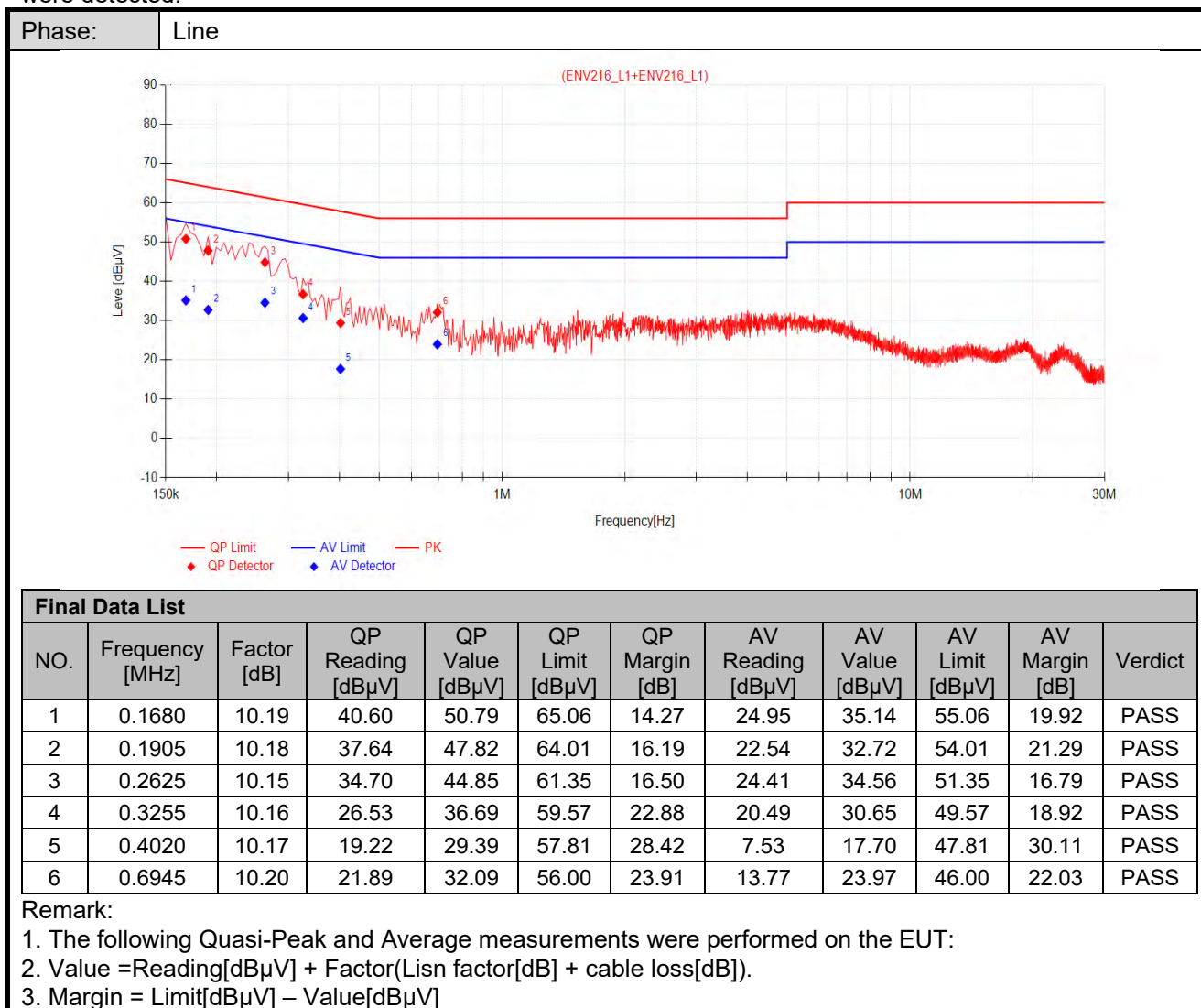
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Measurement Data

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.



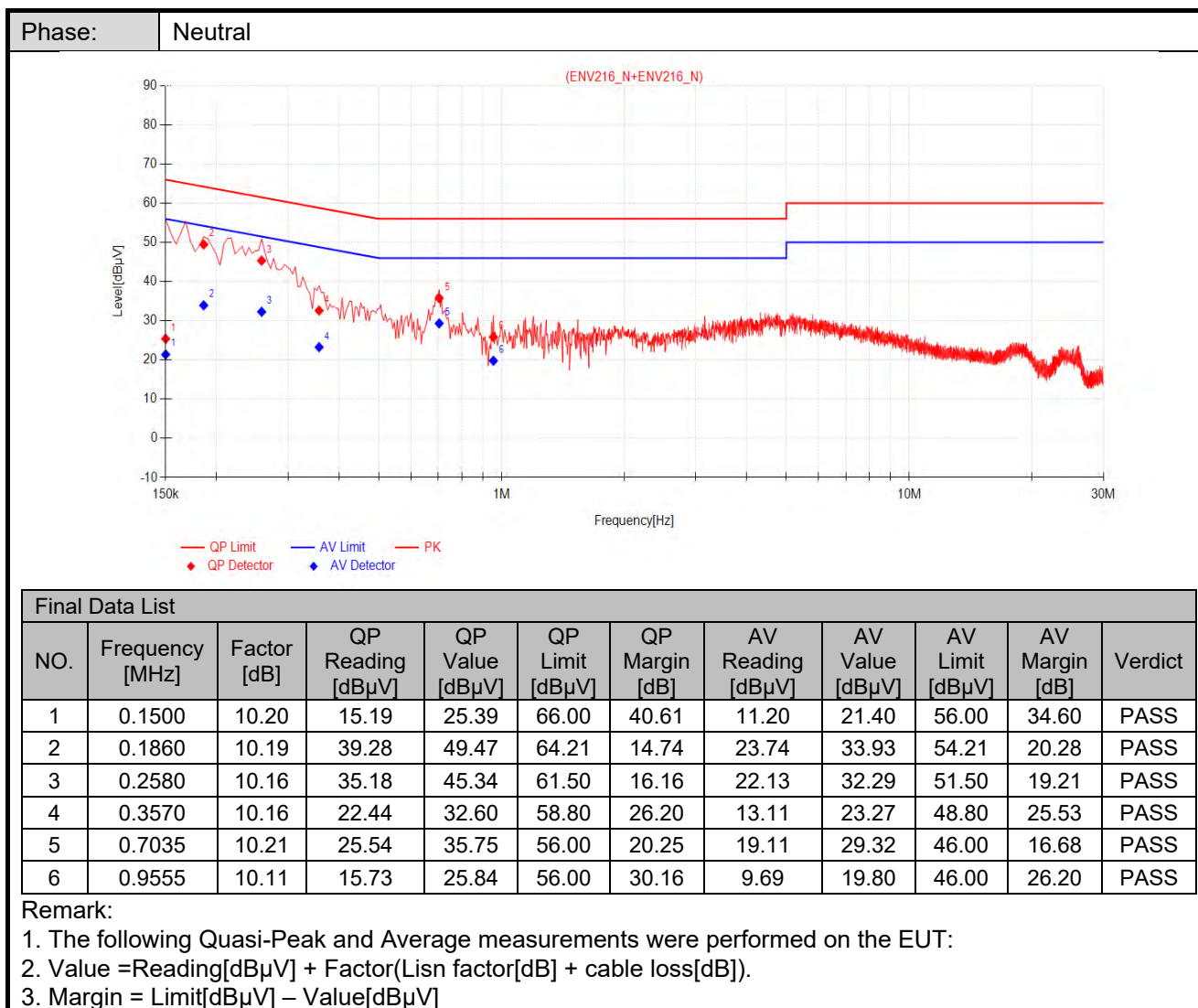


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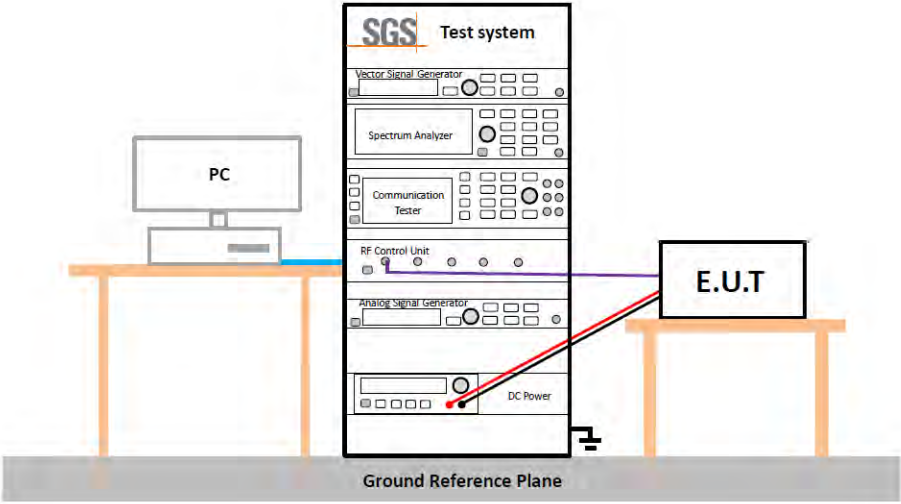
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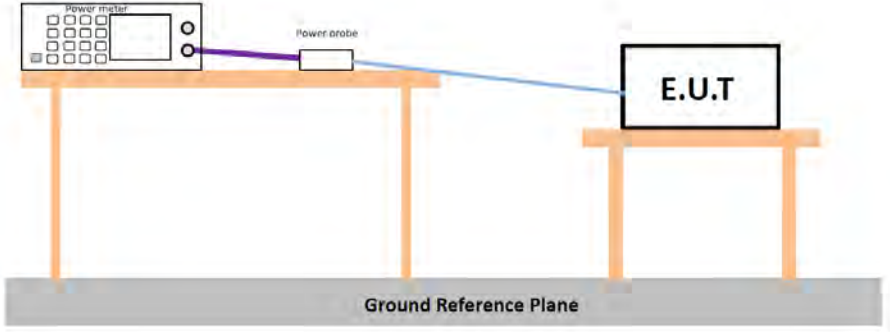
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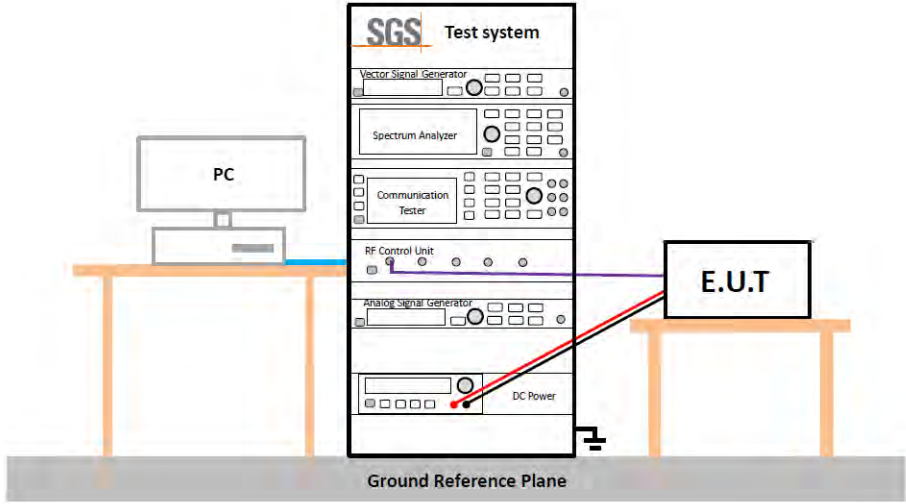
5.3 Duty Cycle

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: Appendix	

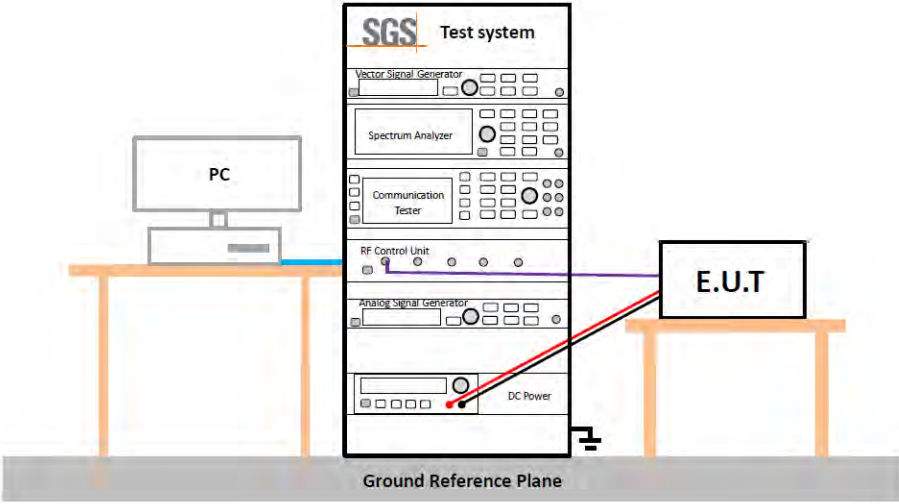
5.4 Conducted Output Power

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

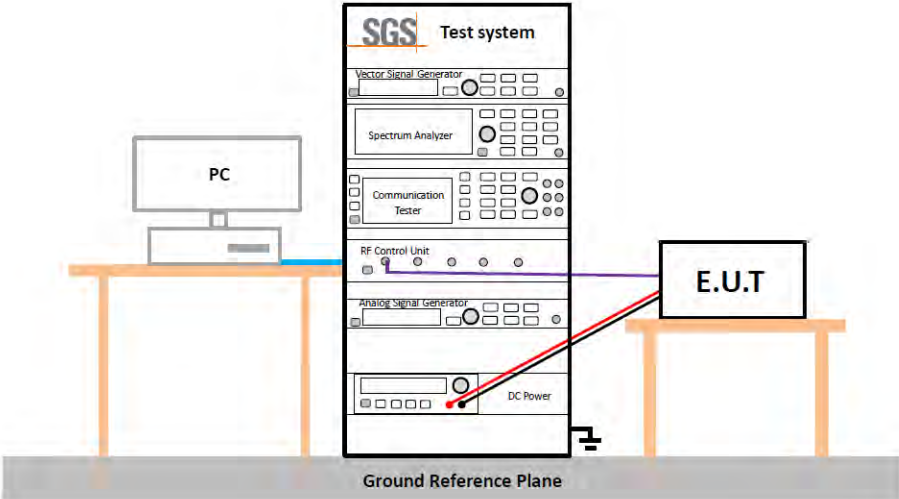
5.5 DTS (6 dB) Bandwidth & 99% Occupied Bandwidth

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

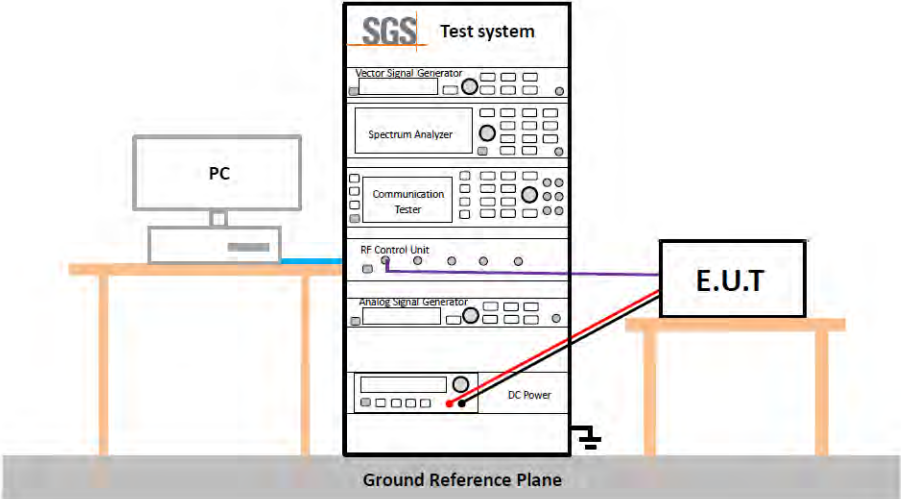
5.6 Power Spectral Density

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: Appendix	

5.7 Band-edge for RF Conducted Emissions

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

5.8 RF Conducted Spurious Emissions

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



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5.9 Radiated Spurious Emissions

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

Test Setup:

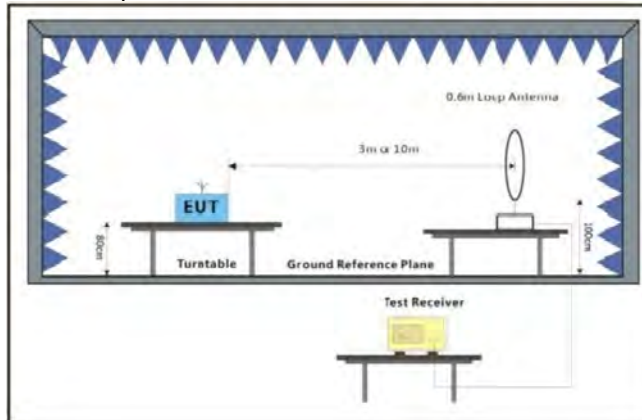


Figure 1. Below 30MHz

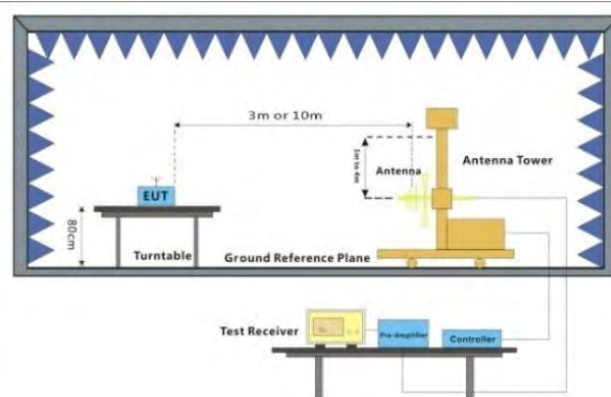


Figure 2. 30MHz to 1GHz

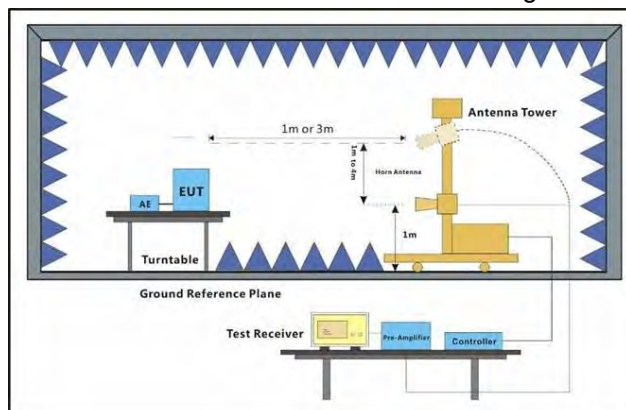


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation (Distance from antenna to EUT is 1m for measurements >18GHz).
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- Test the EUT in the lowest channel, the middle channel, the Highest



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	channel. 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. i. Repeat above procedures until all frequencies measured was complete. 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 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. l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.
Test Configuration:	Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + 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: Appendix	

5.10 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:

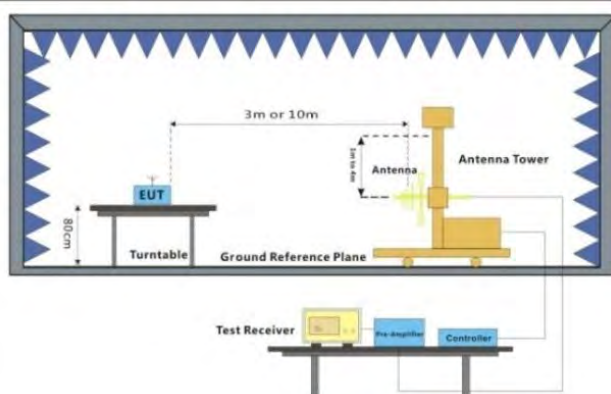


Figure 1. 30MHz to 1GHz

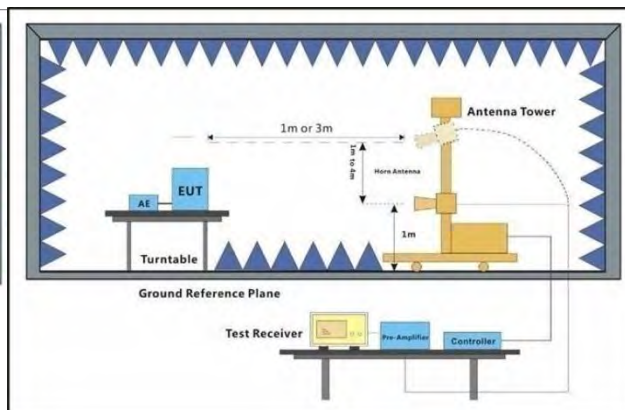


Figure 2. Above 1 GHz

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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. 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 h. Test the EUT in the lowest channel , the Highest channel i. 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. j. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



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6 Photographs - Setup Photos

Refer to Appendix A.2 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	12.434	12.574	98.89	0.05	0.05
802.11g	SISO	2412	2.067	2.102	98.33	0.07	0.03
802.11n (HT20)	SISO	2412	1.928	1.963	98.22	0.08	0.03
802.11n (HT40)	SISO	2422	0.948	0.999	94.89	0.23	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	13.651	/	Pass
		2437	1	13.849	/	Pass
		2462	1	13.855	/	Pass
802.11g	SISO	2412	1	16.858	/	Pass
		2437	1	17.911	/	Pass
		2462	1	17.472	/	Pass
802.11n (HT20)	SISO	2412	1	17.920	/	Pass
		2437	1	18.033	/	Pass
		2462	1	18.028	/	Pass
802.11n (HT40)	SISO	2422	1	36.511	/	Pass
		2437	1	36.662	/	Pass
		2452	1	36.536	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
802.11b	SISO	2412	1	8.793	≥ 0.5	Pass
		2437	1	9.244	≥ 0.5	Pass
		2462	1	9.219	≥ 0.5	Pass
802.11g	SISO	2412	1	16.319	≥ 0.5	Pass
		2437	1	16.447	≥ 0.5	Pass
		2462	1	16.421	≥ 0.5	Pass
802.11n (HT20)	SISO	2412	1	17.576	≥ 0.5	Pass
		2437	1	17.689	≥ 0.5	Pass
		2462	1	17.688	≥ 0.5	Pass
802.11n (HT40)	SISO	2422	1	36.236	≥ 0.5	Pass
		2437	1	36.454	≥ 0.5	Pass
		2452	1	36.048	≥ 0.5	Pass

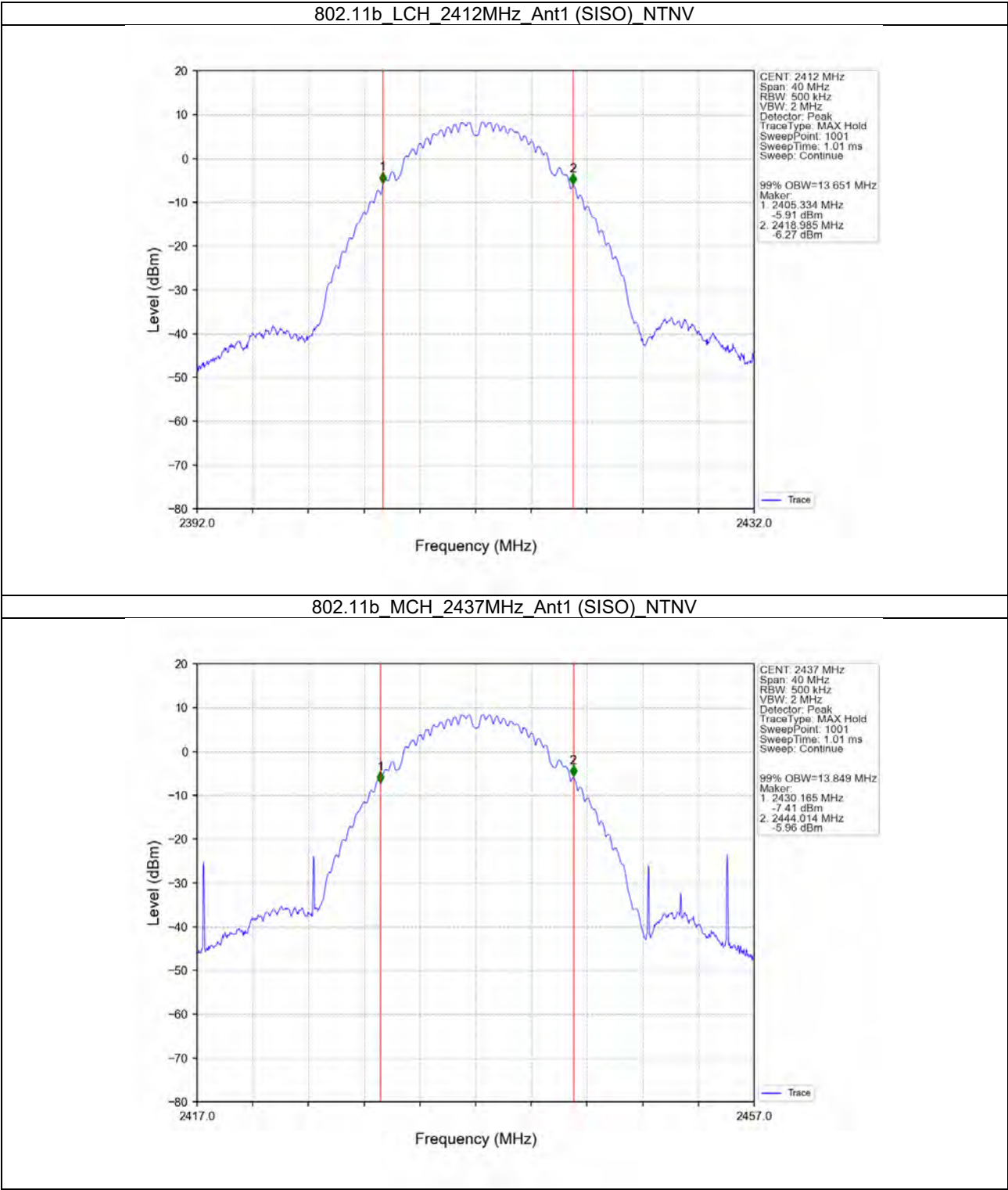


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2.2 Test Graph

2.2.1 OBW

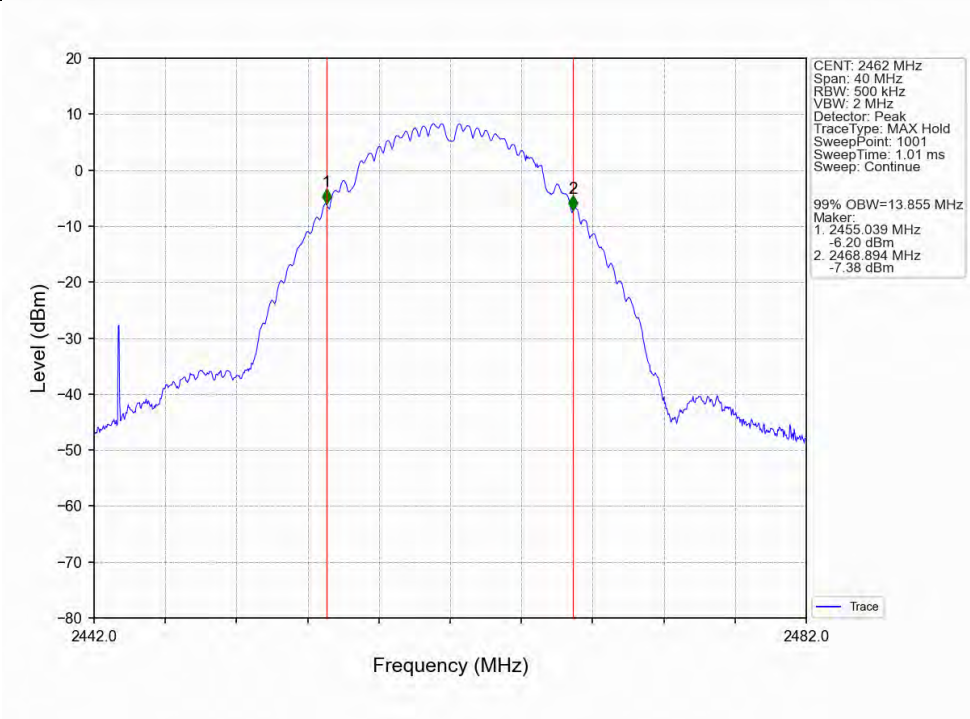




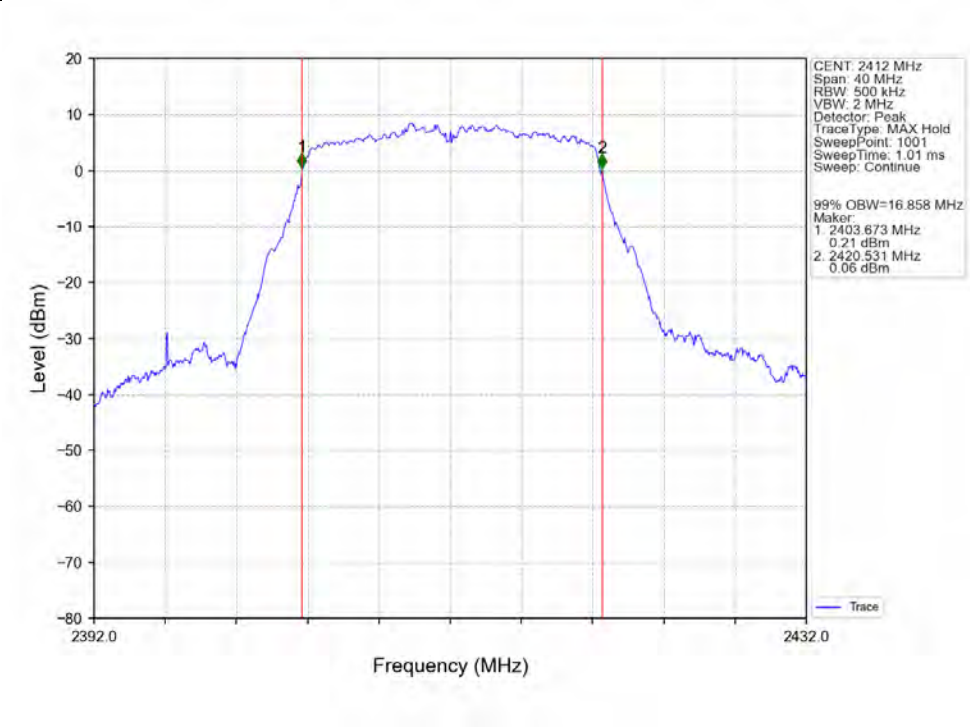
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



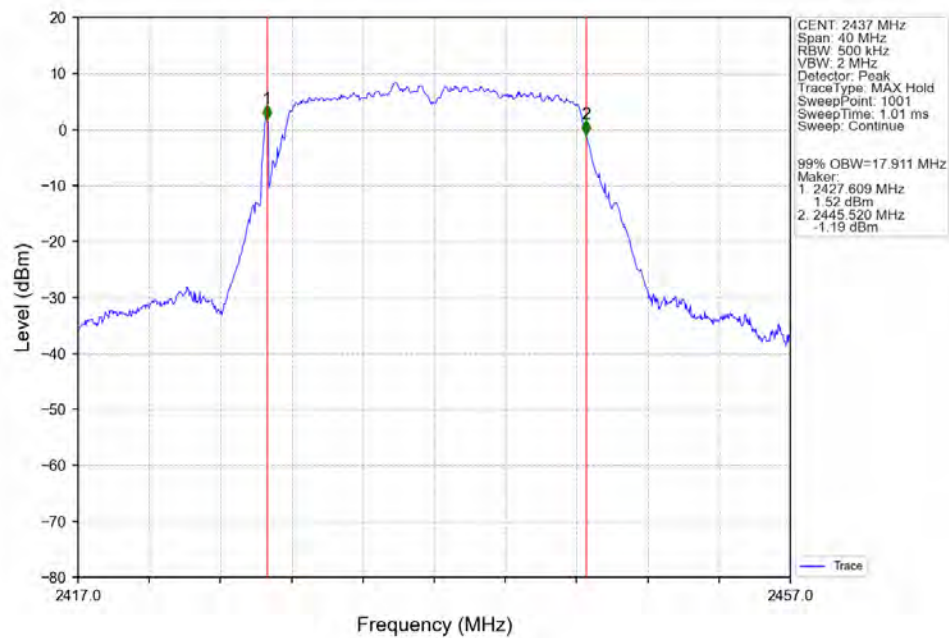
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



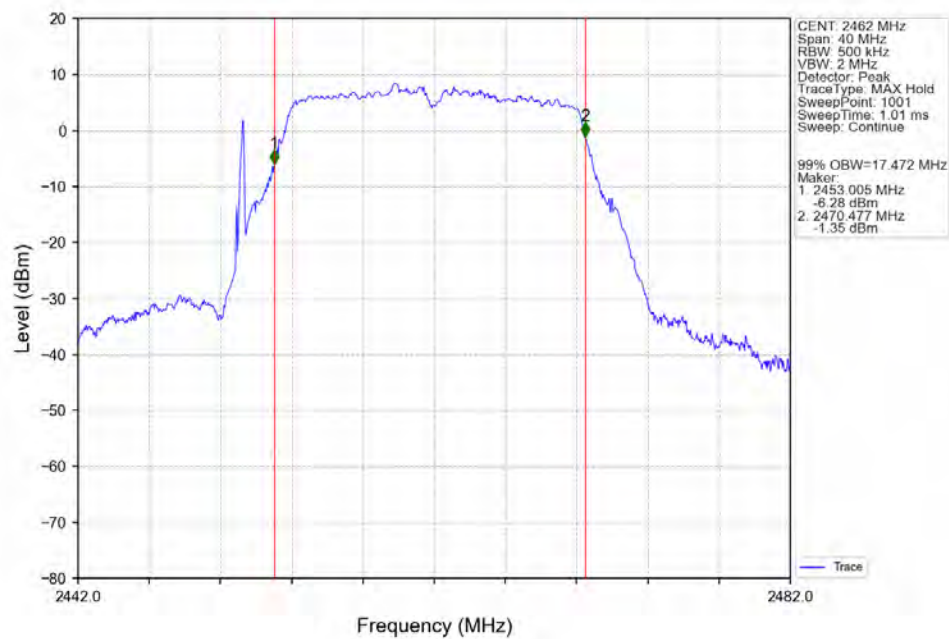
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

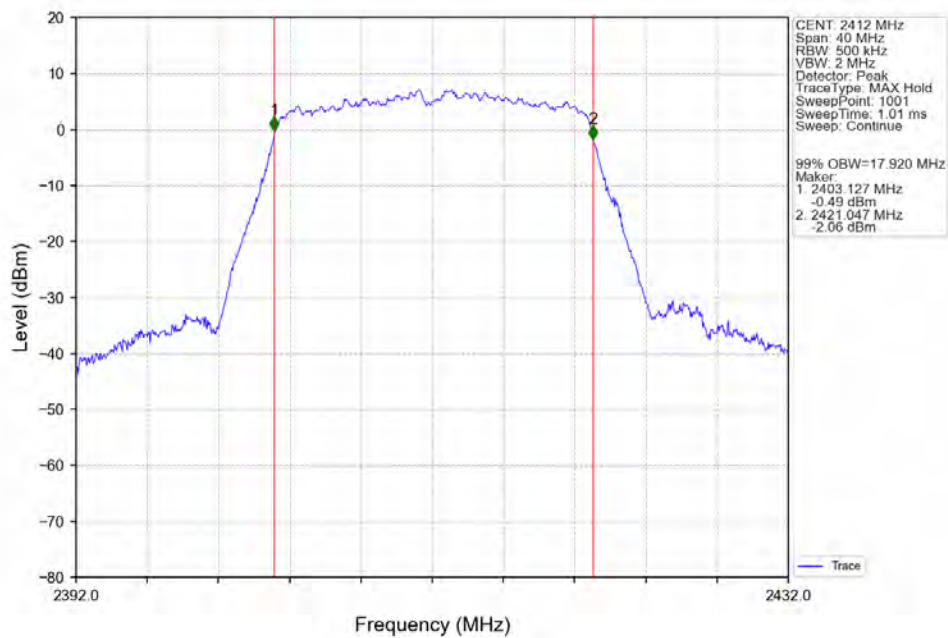




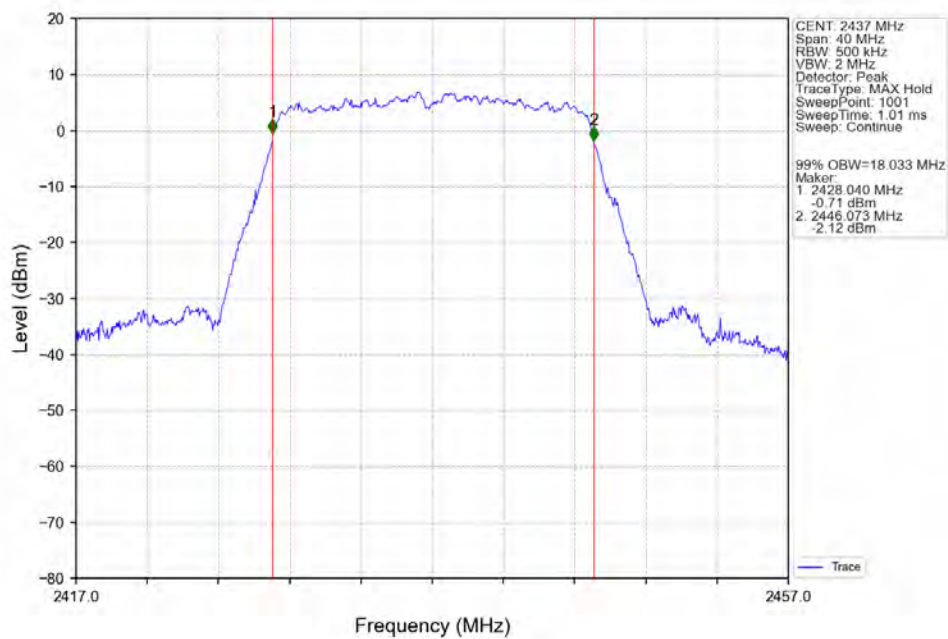
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

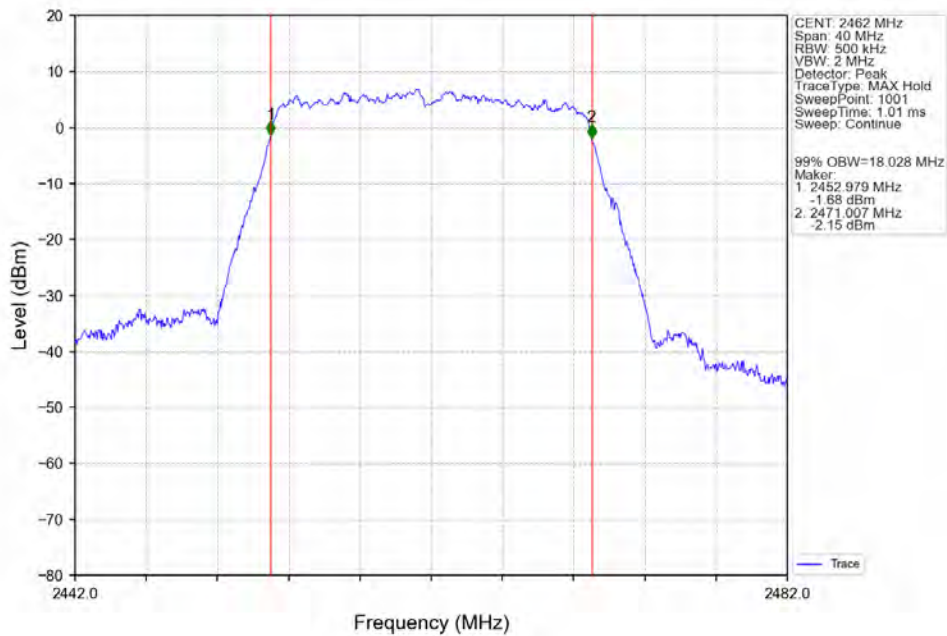




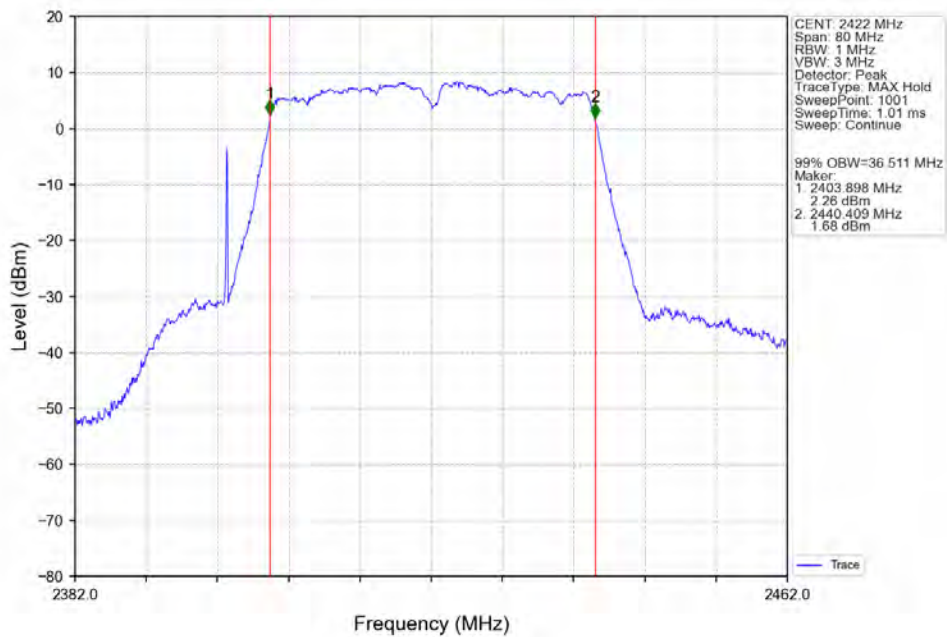
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

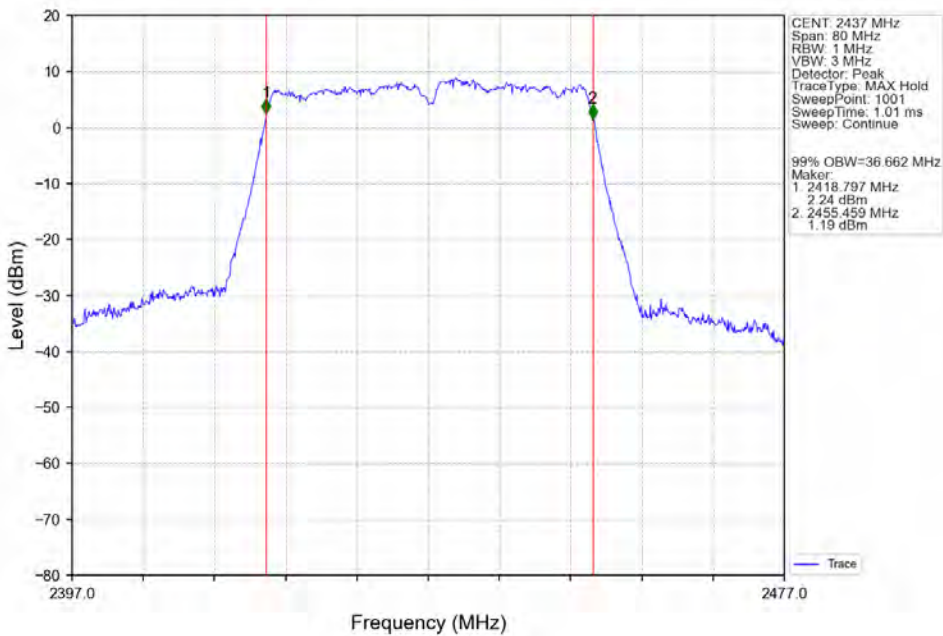




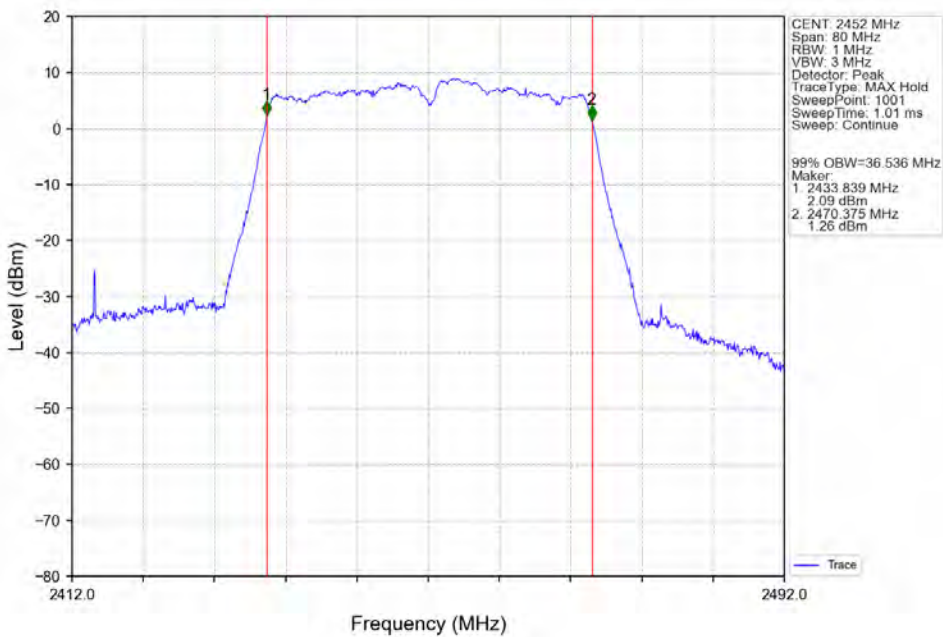
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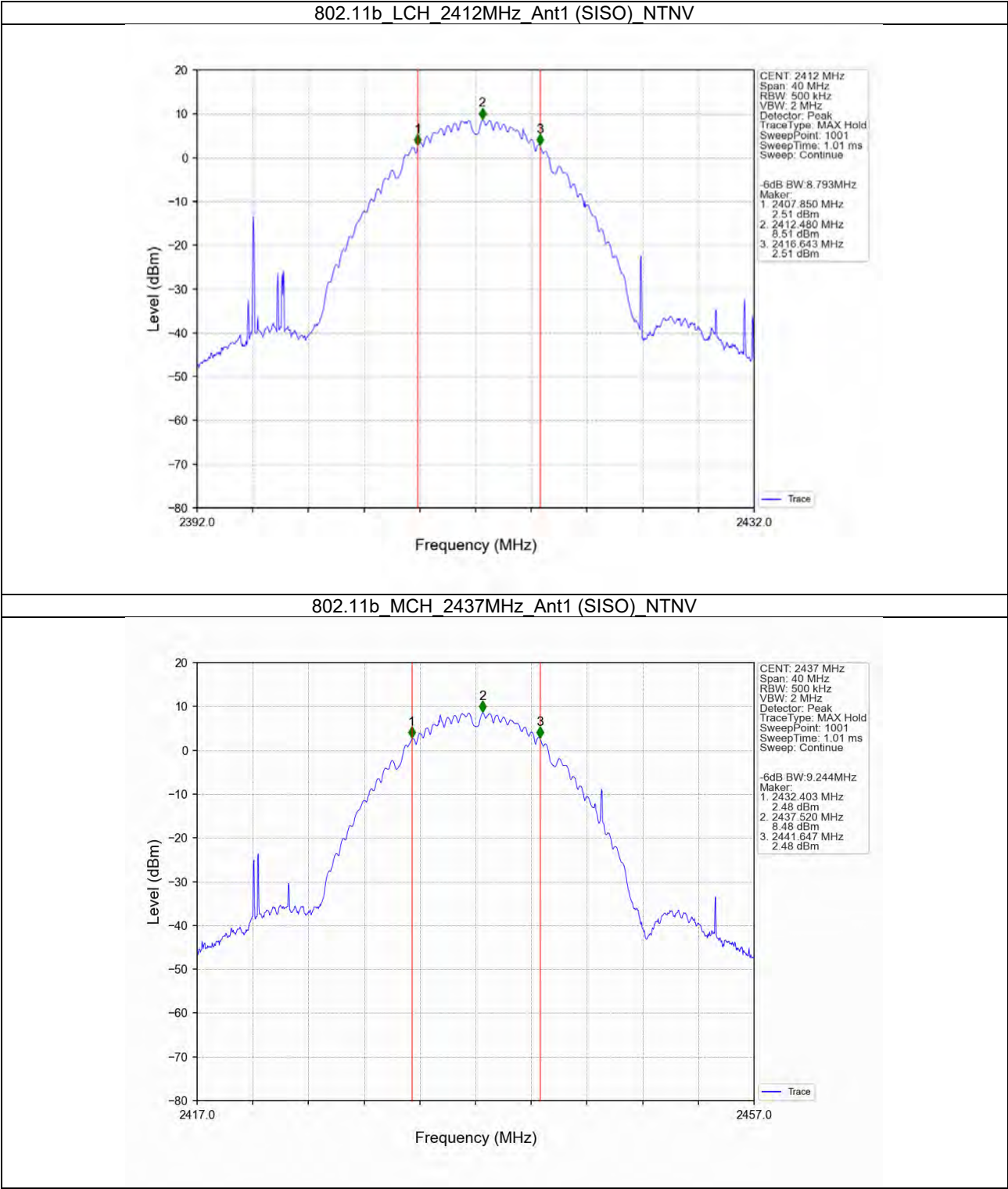
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



2.2.2 6dB BW

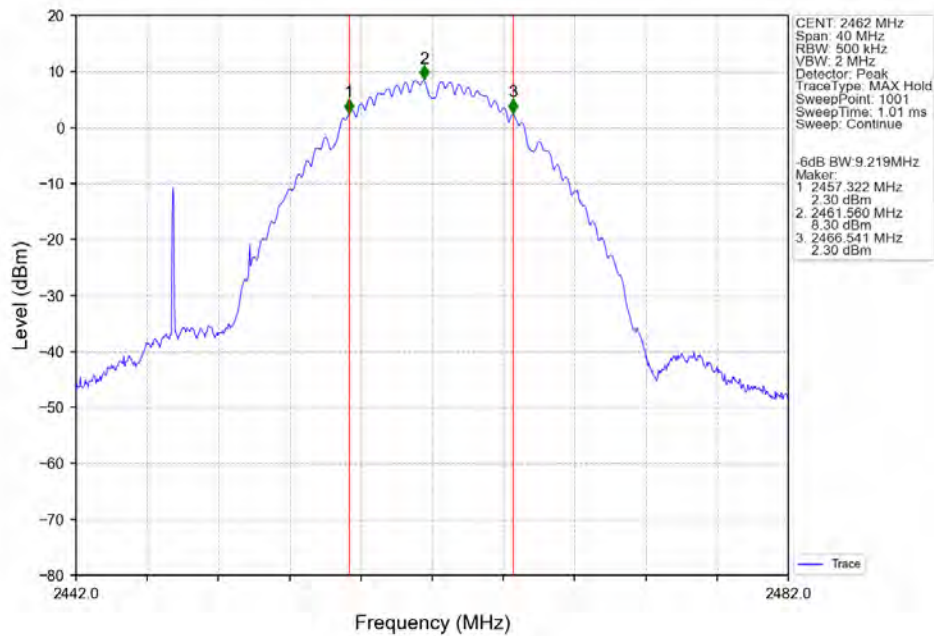




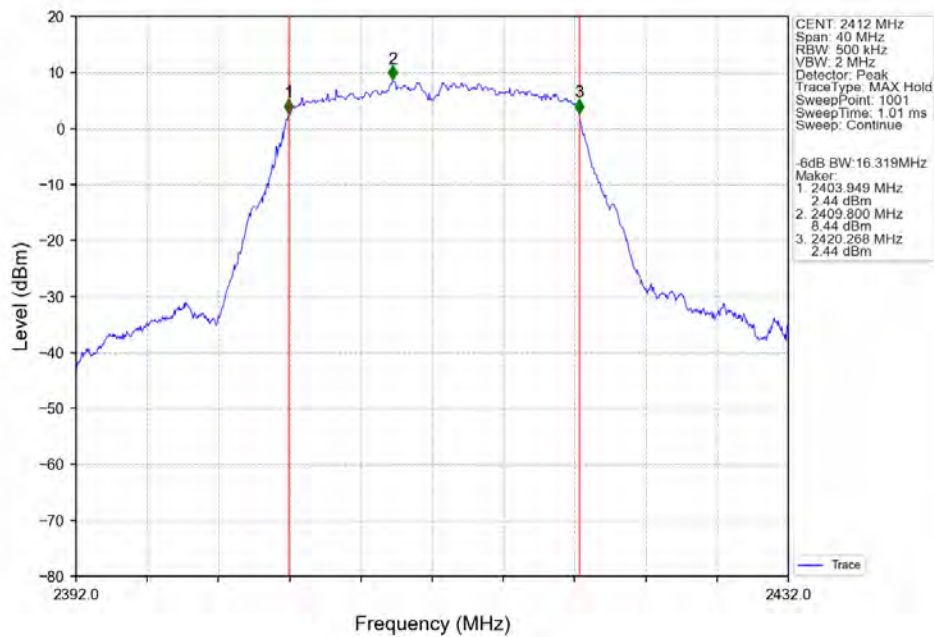
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



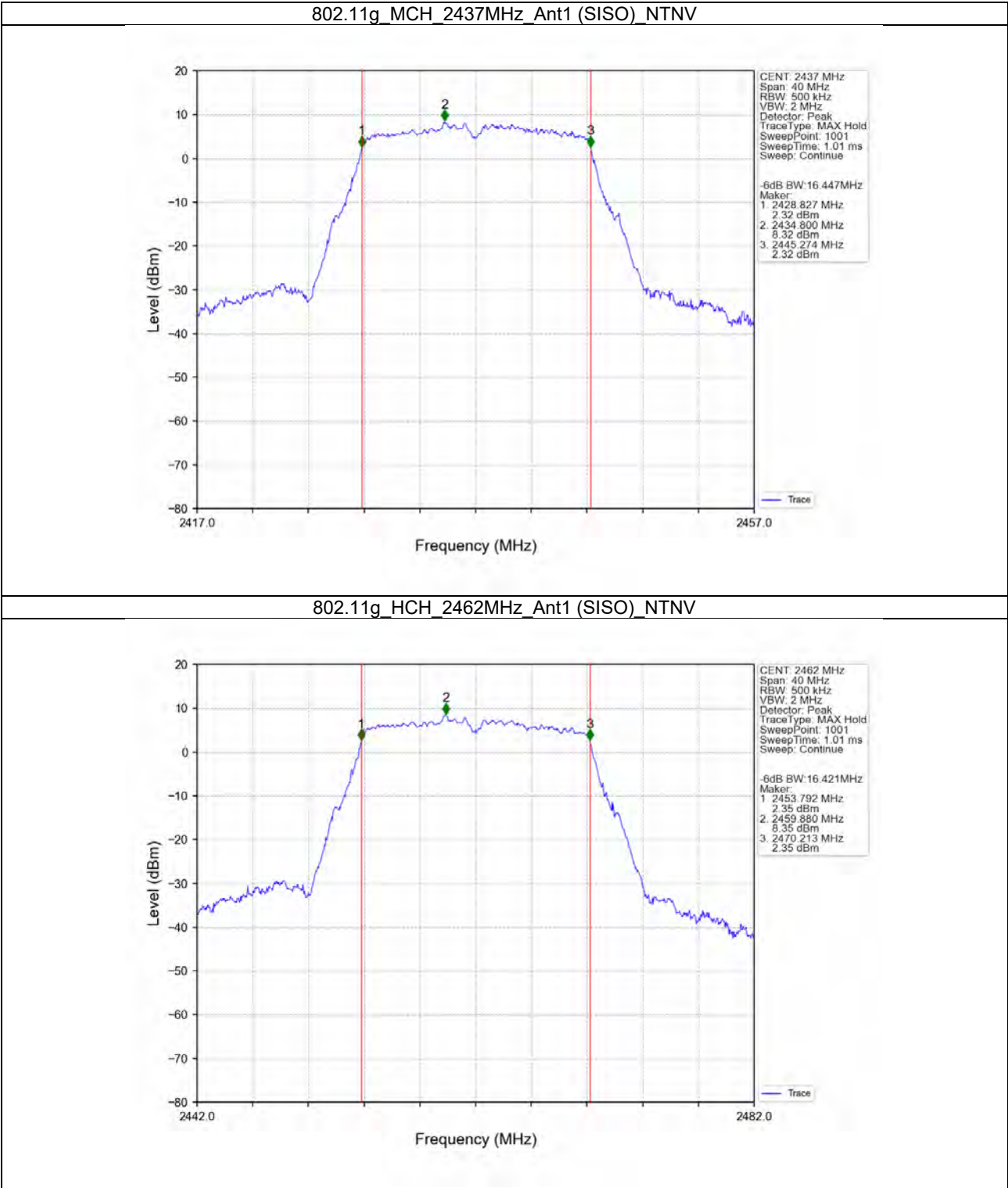
802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV





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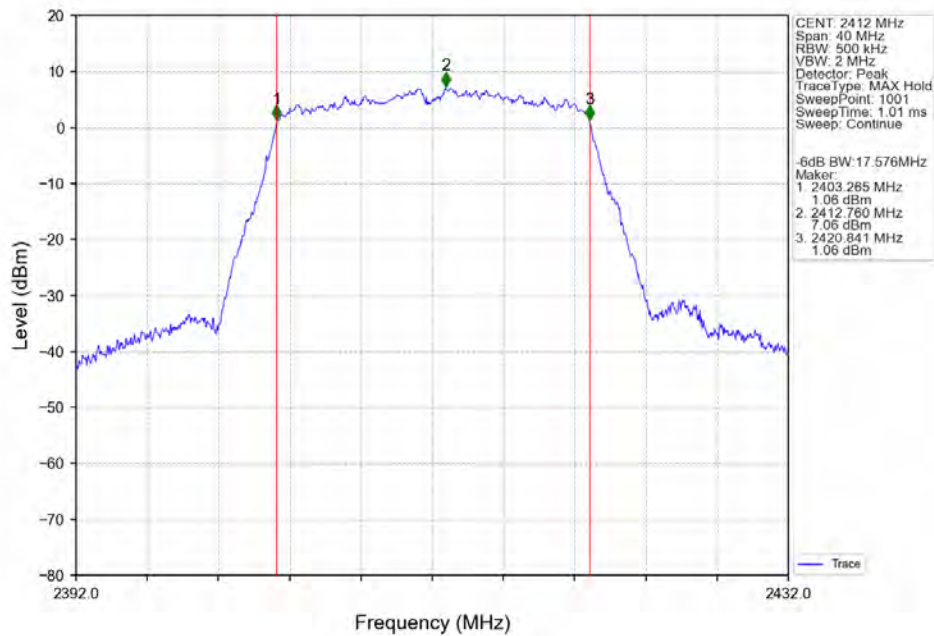




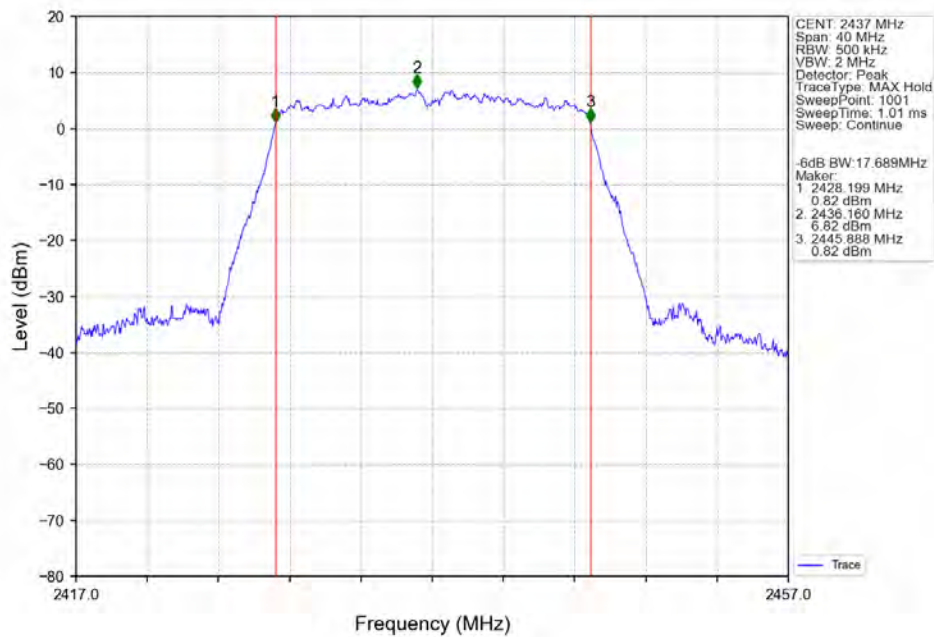
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

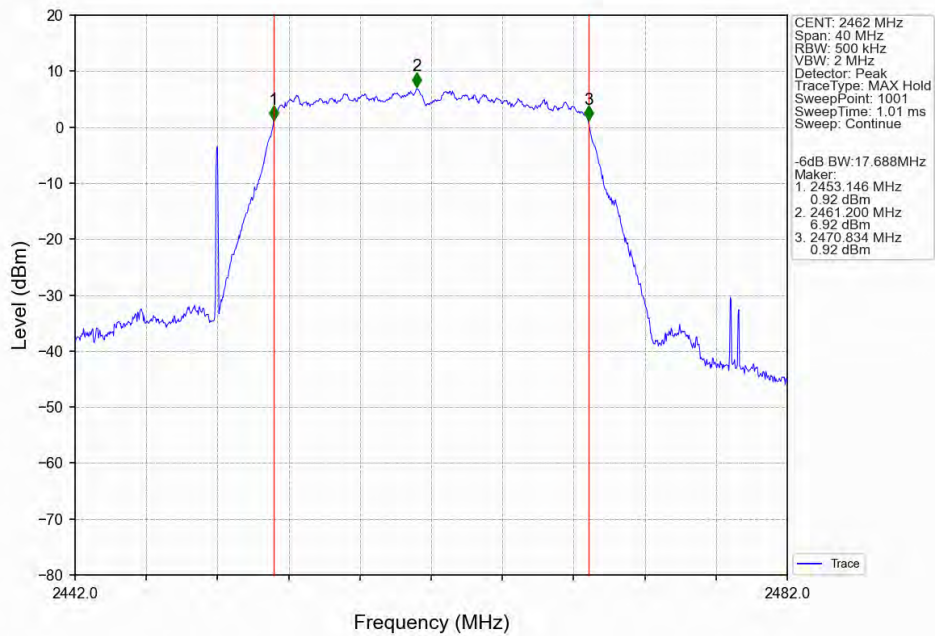




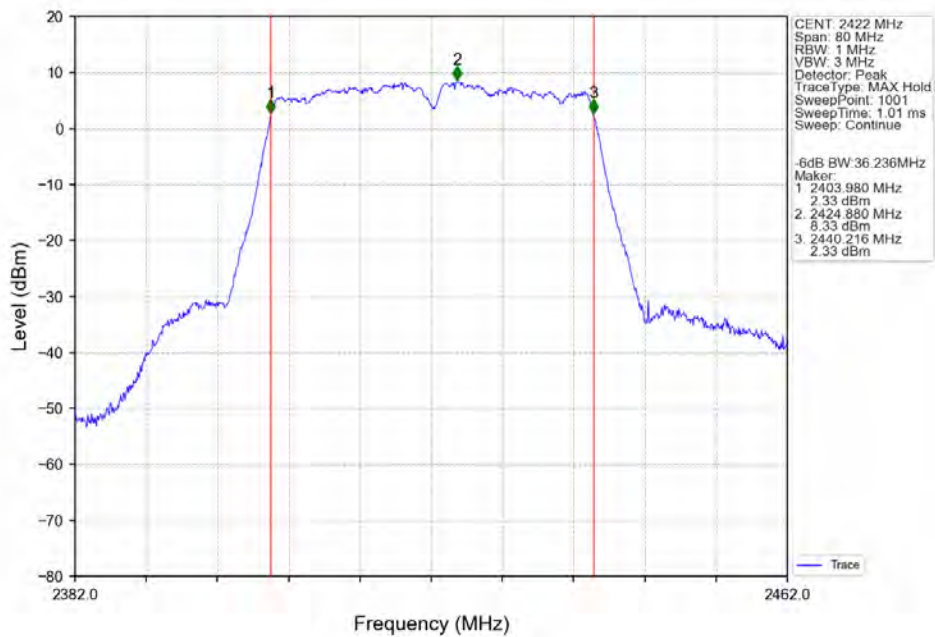
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

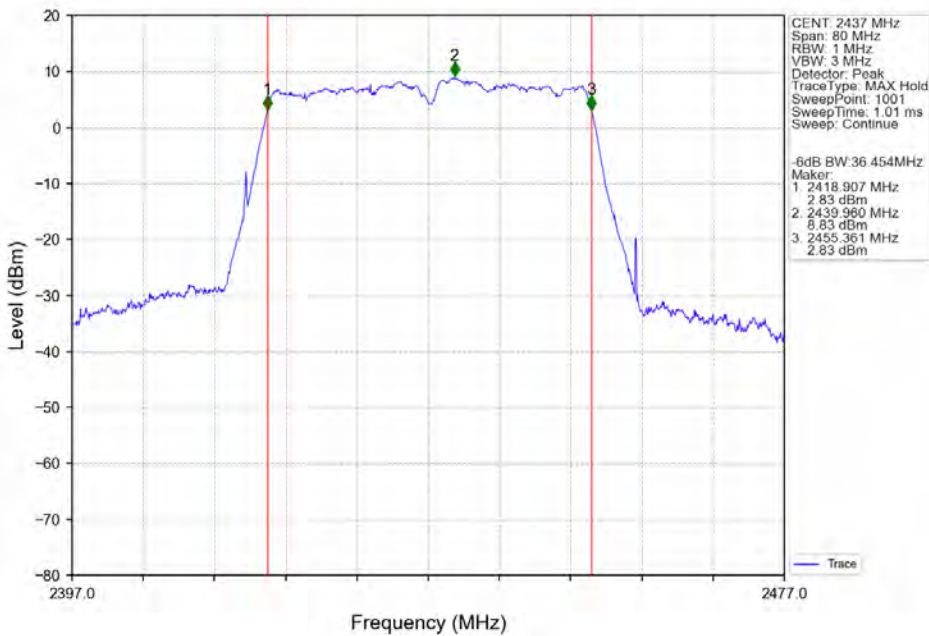




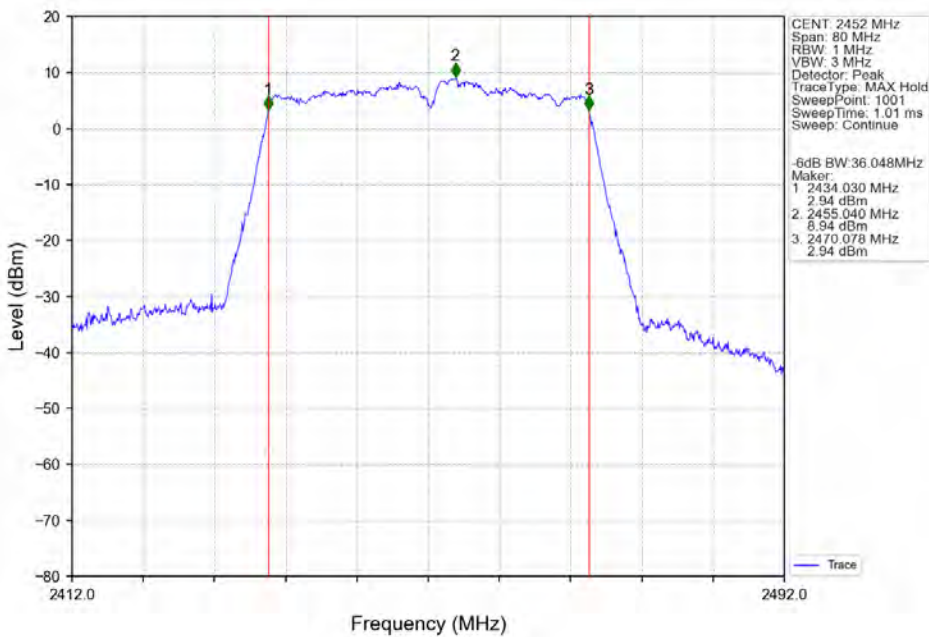
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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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	18.57	<=30	Pass
		2437	18.49	<=30	Pass
		2462	18.63	<=30	Pass
802.11g	SISO	2412	19.56	<=30	Pass
		2437	19.38	<=30	Pass
		2462	19.51	<=30	Pass
802.11n (HT20)	SISO	2412	18.80	<=30	Pass
		2437	18.86	<=30	Pass
		2462	18.93	<=30	Pass
802.11n (HT40)	SISO	2422	19.30	<=30	Pass
		2437	19.29	<=30	Pass
		2452	19.44	<=30	Pass

Note1: Antenna Gain: Ant1: 1.88dBi;



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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	-7.35	<=8	Pass
		2437	-7.06	<=8	Pass
		2462	-7.55	<=8	Pass
802.11g	SISO	2412	-13.18	<=8	Pass
		2437	-12.11	<=8	Pass
		2462	-12.79	<=8	Pass
802.11n (HT20)	SISO	2412	-13.50	<=8	Pass
		2437	-13.01	<=8	Pass
		2462	-13.57	<=8	Pass
802.11n (HT40)	SISO	2422	-15.22	<=8	Pass
		2437	-15.67	<=8	Pass
		2452	-15.87	<=8	Pass

Note1: Antenna Gain: Ant1: 1.88dBi;

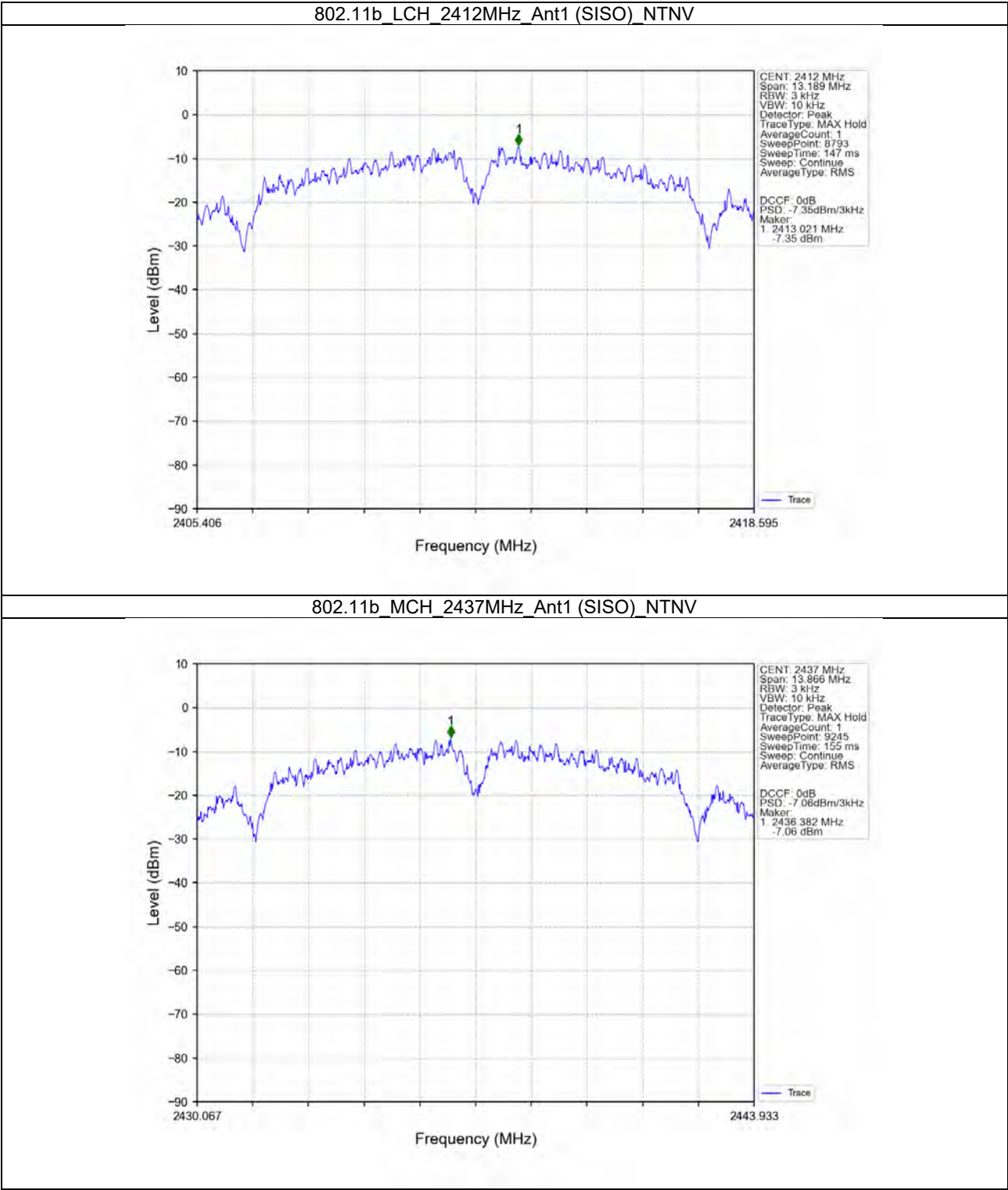


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4.2 Test Graph

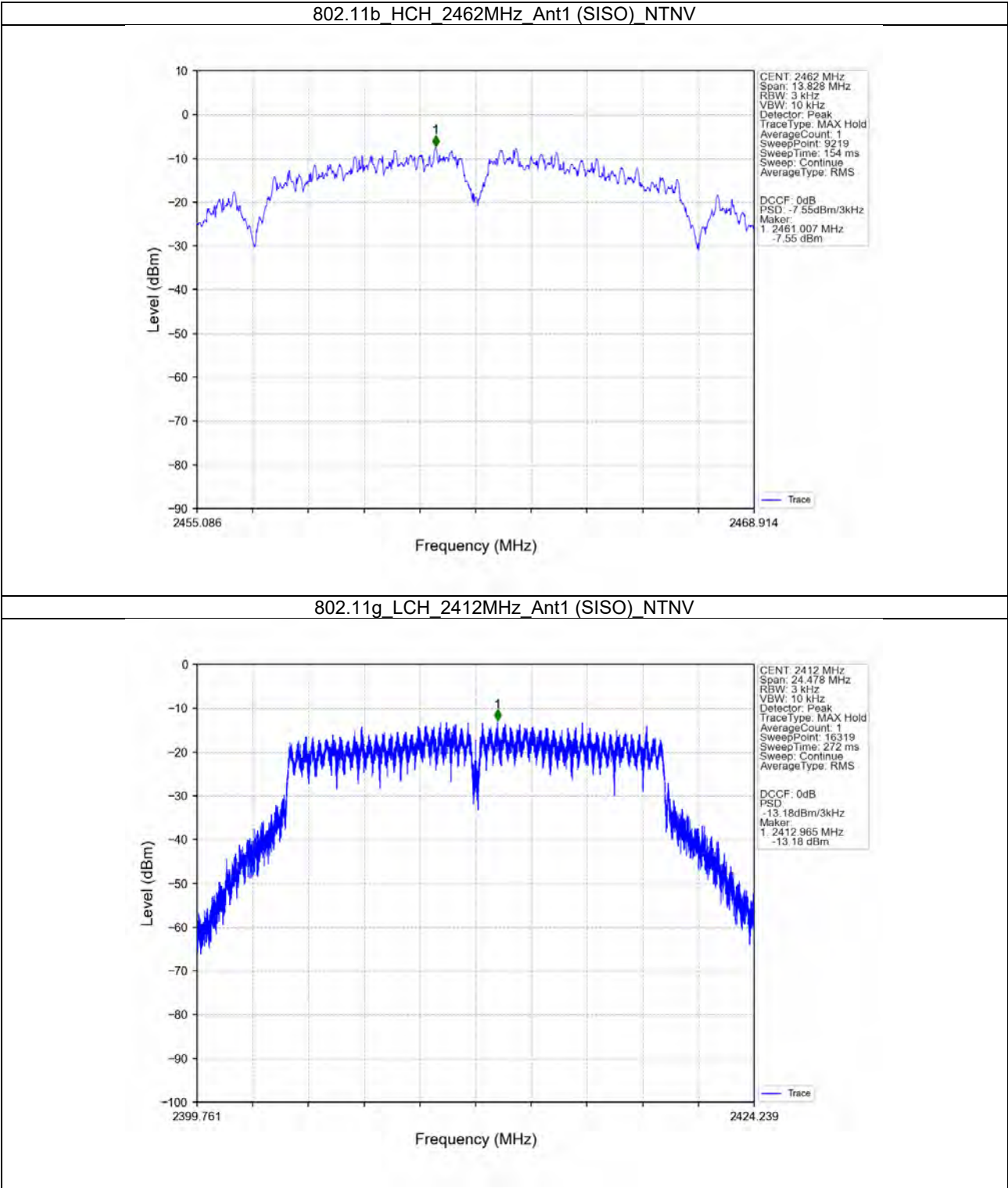
4.2.1 PSD





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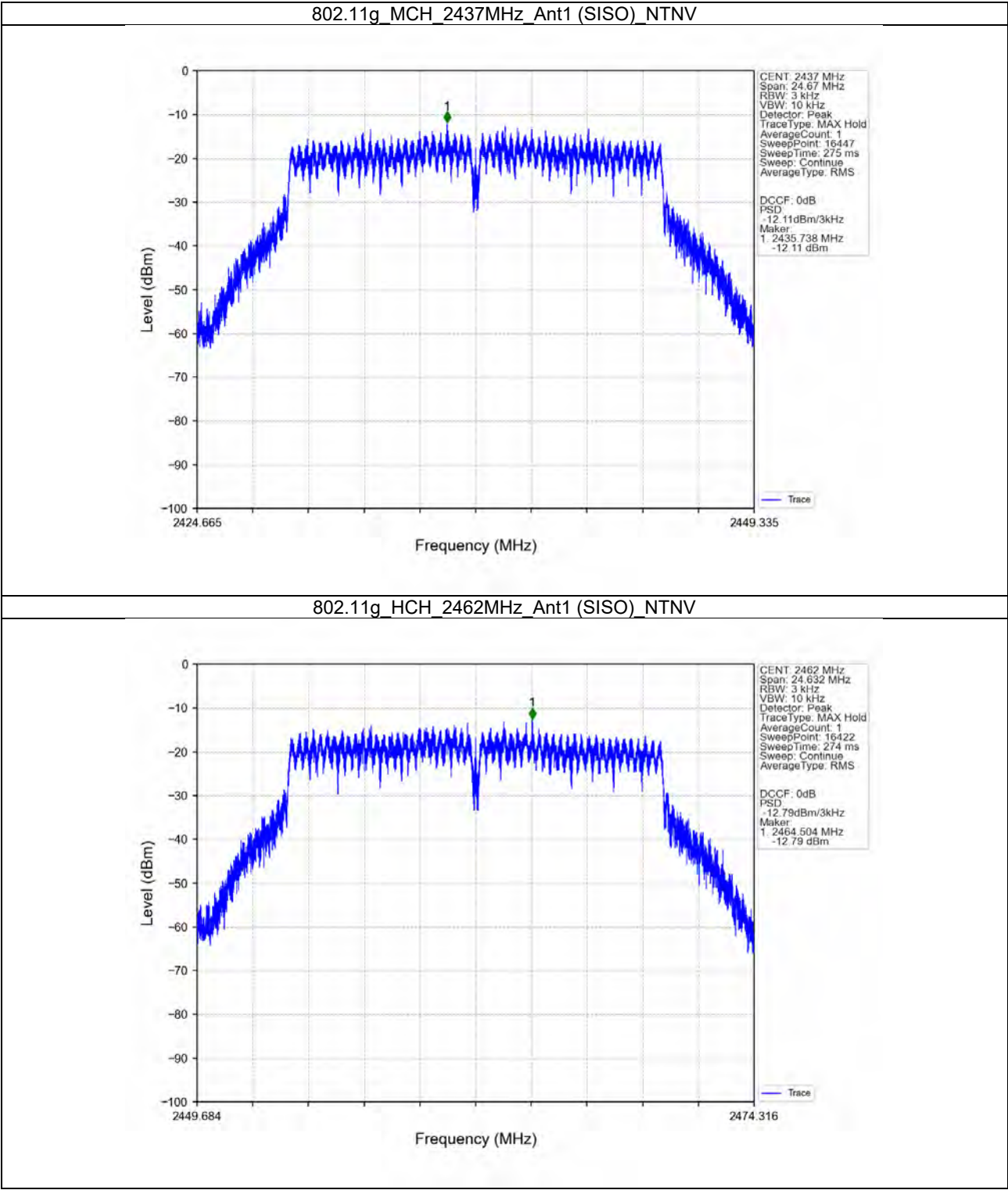
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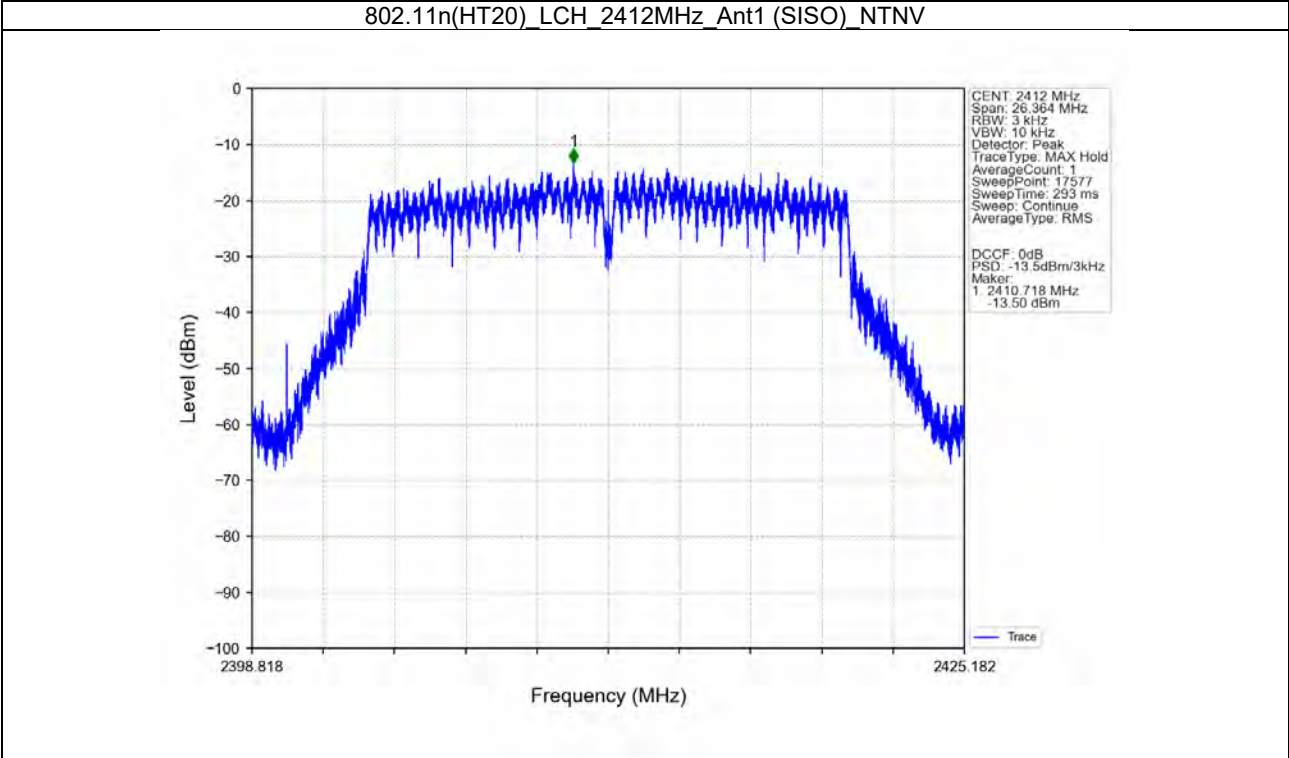




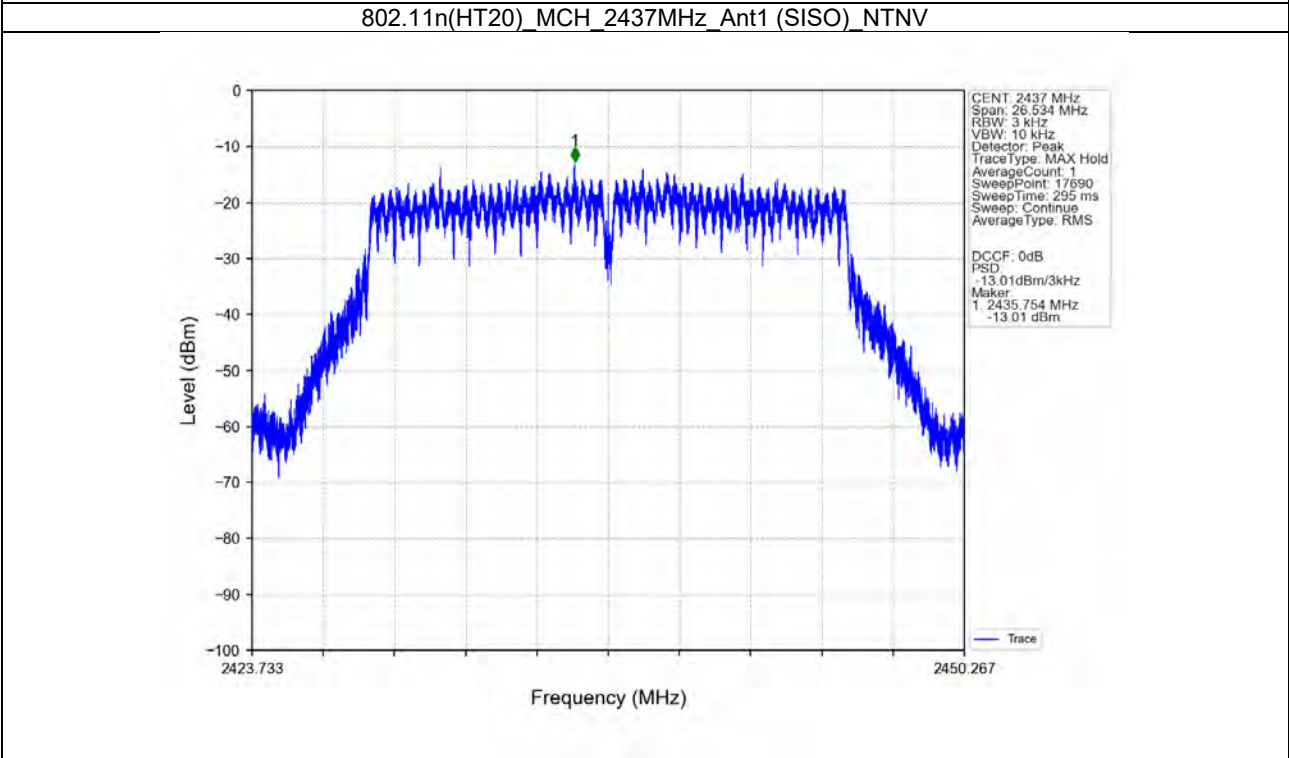
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV

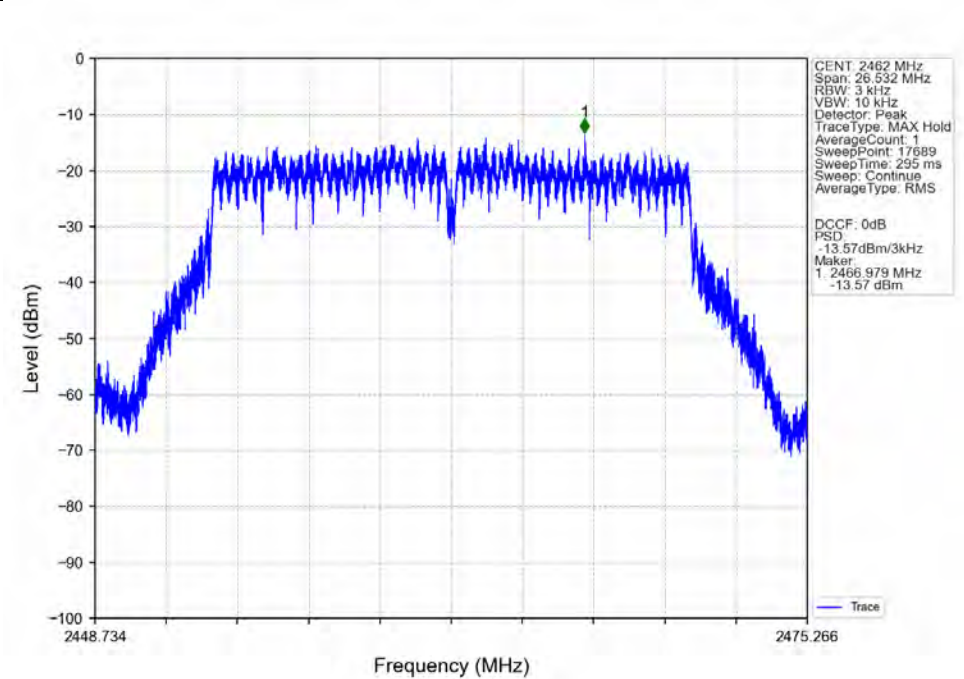




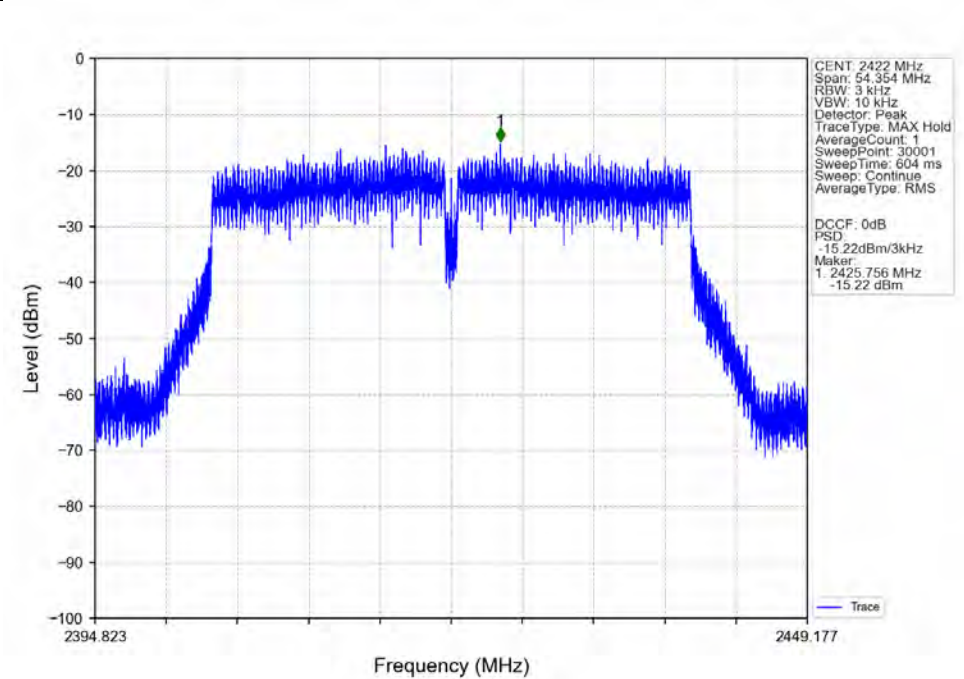
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

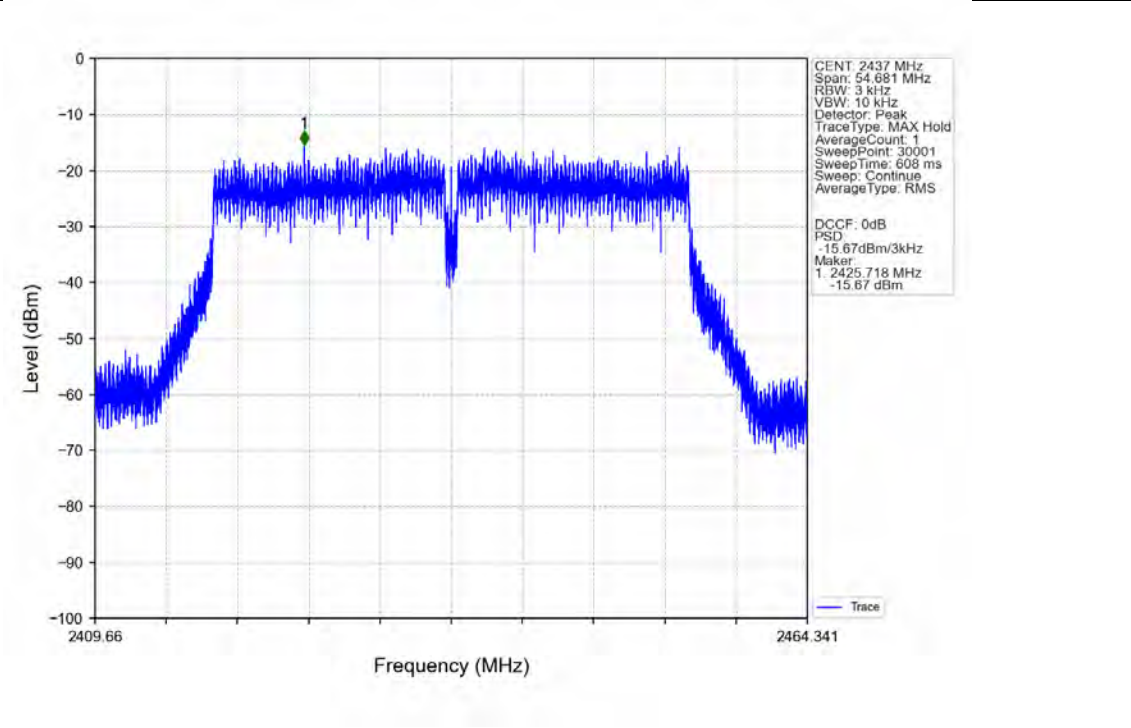




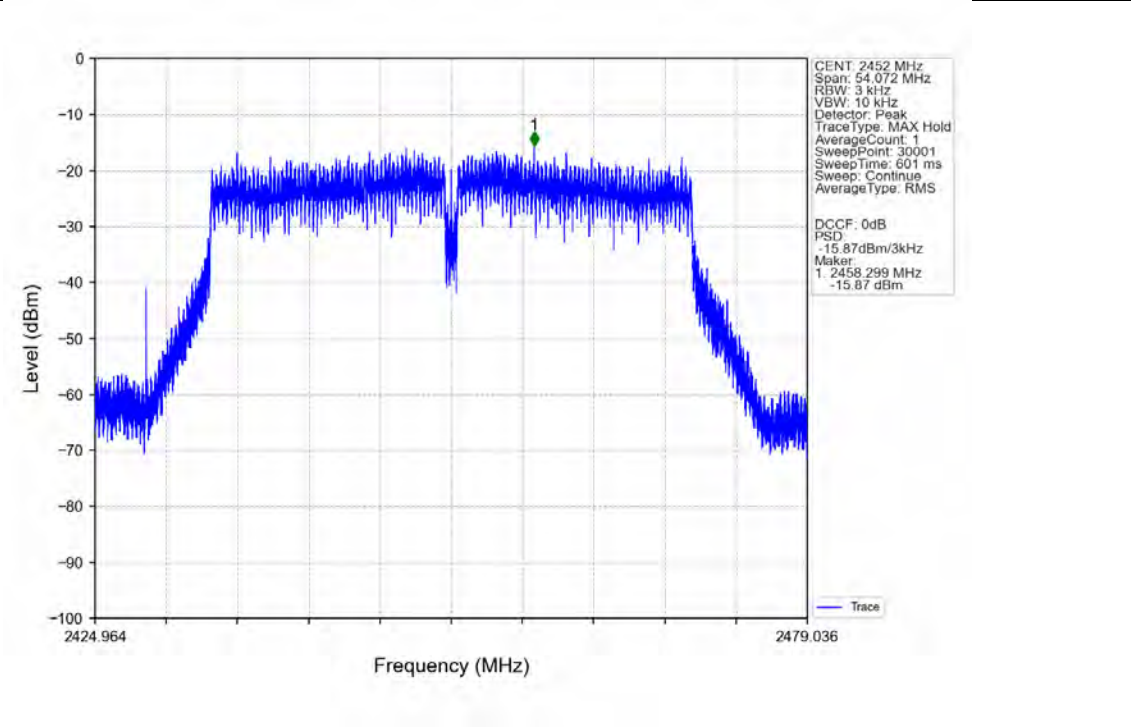
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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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	7.95
		2437	1	8.06
		2462	1	7.92
802.11g	SISO	2412	1	4.65
		2437	1	4.41
		2462	1	4.22
802.11n (HT20)	SISO	2412	1	3.44
		2437	1	3.35
		2462	1	3.13
802.11n (HT40)	SISO	2422	1	0.36
		2437	1	0.48
		2452	1	0.58

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	8.06	-11.94	Pass
		2437	1	8.06	-11.94	Pass
		2462	1	8.06	-11.94	Pass
802.11g	SISO	2412	1	4.65	-15.35	Pass
		2437	1	4.65	-15.35	Pass
		2462	1	4.65	-15.35	Pass
802.11n (HT20)	SISO	2412	1	3.44	-16.56	Pass
		2437	1	3.44	-16.56	Pass
		2462	1	3.44	-16.56	Pass
802.11n (HT40)	SISO	2422	1	0.58	-19.42	Pass
		2437	1	0.58	-19.42	Pass
		2452	1	0.58	-19.42	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.

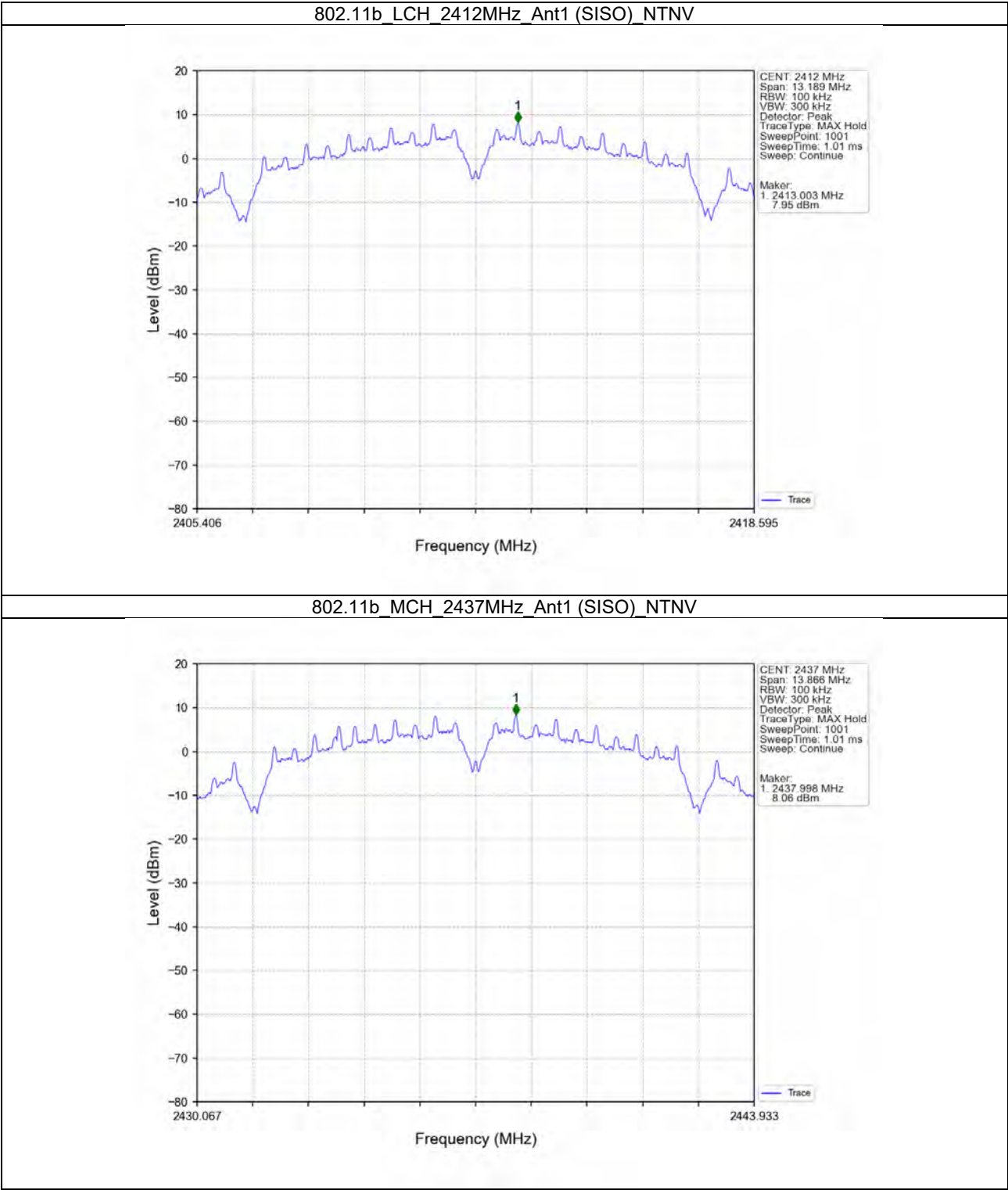


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5.2 Test Graph

5.2.1 Ref

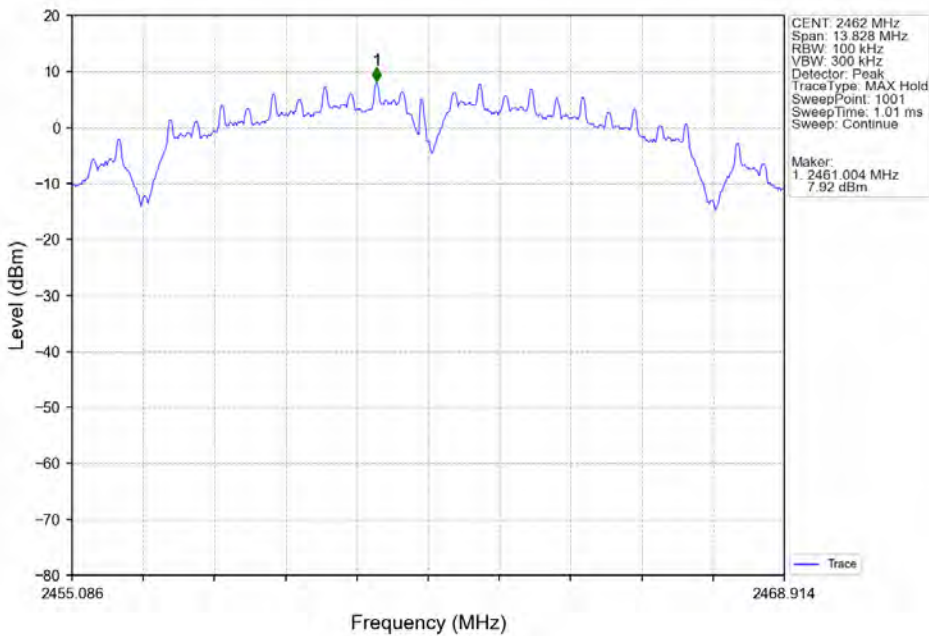




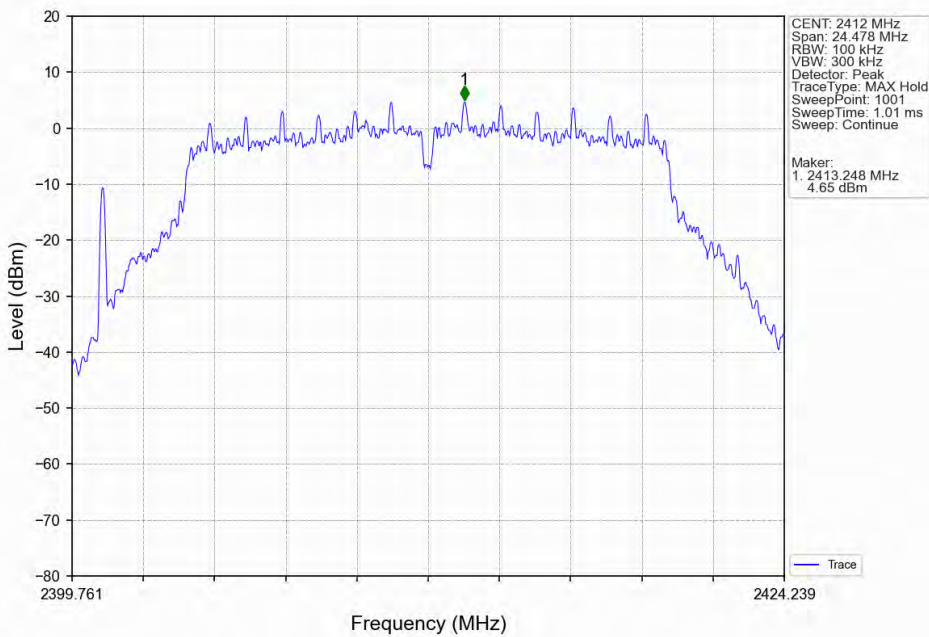
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

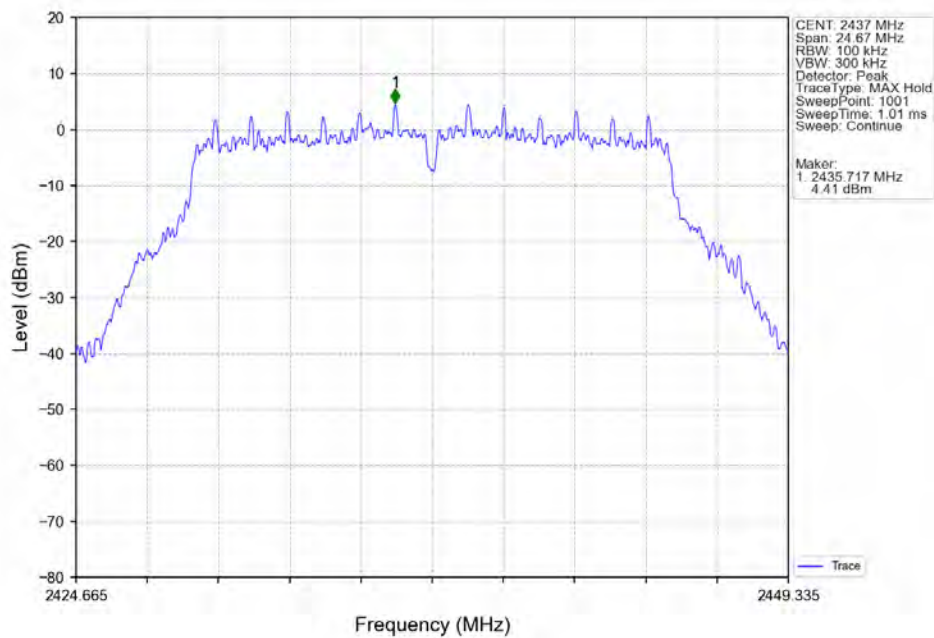




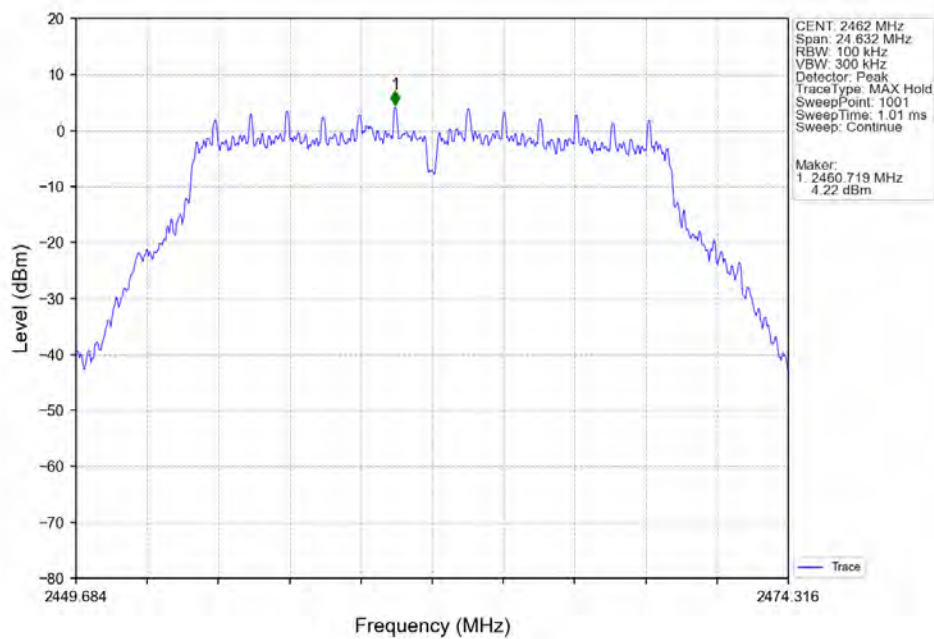
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

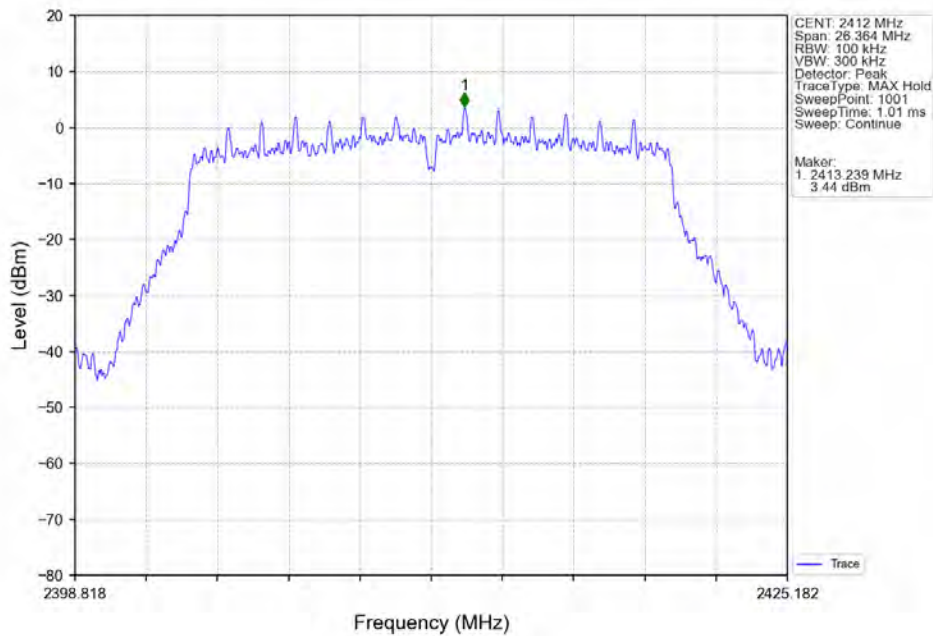




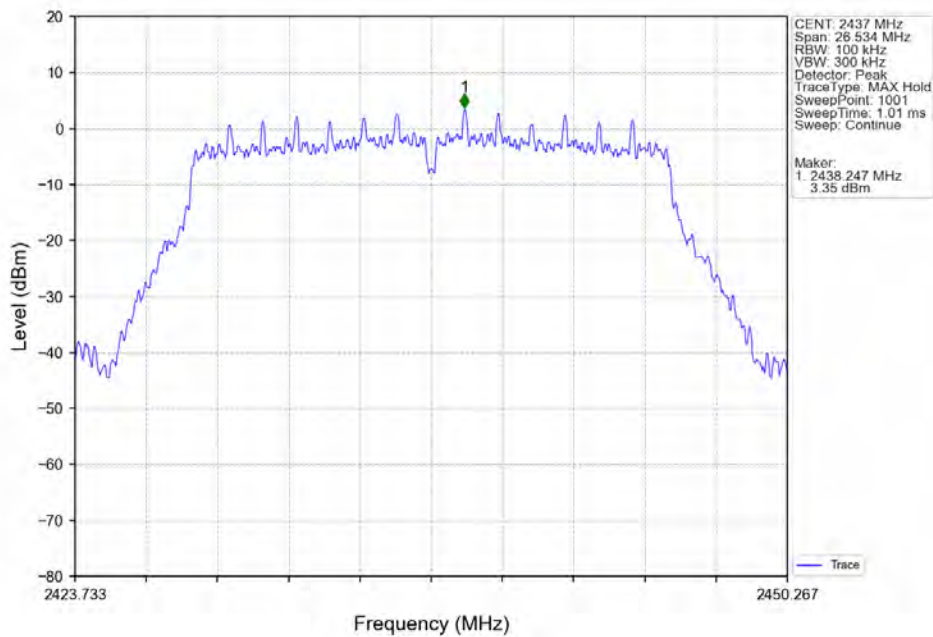
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



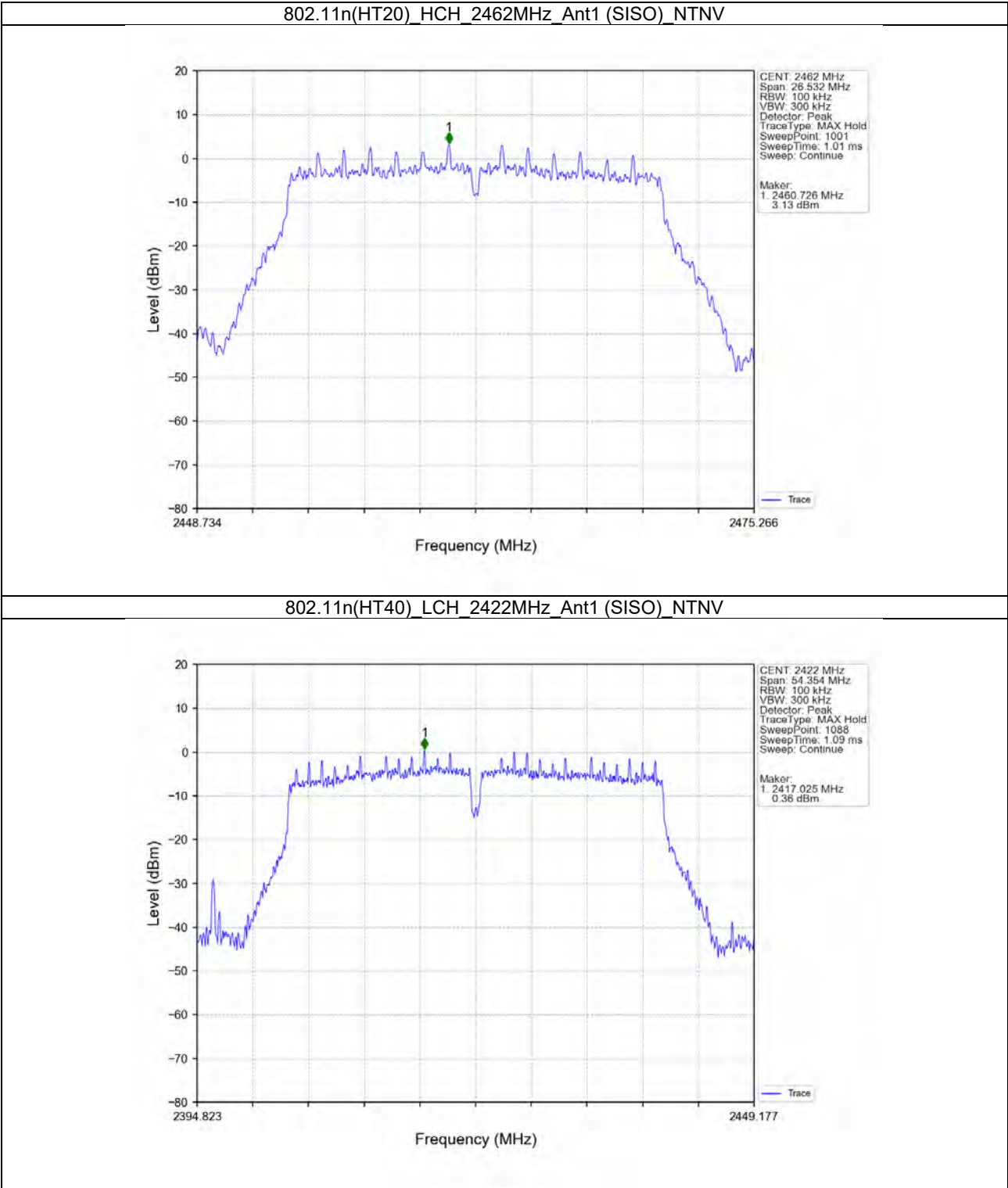
802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV





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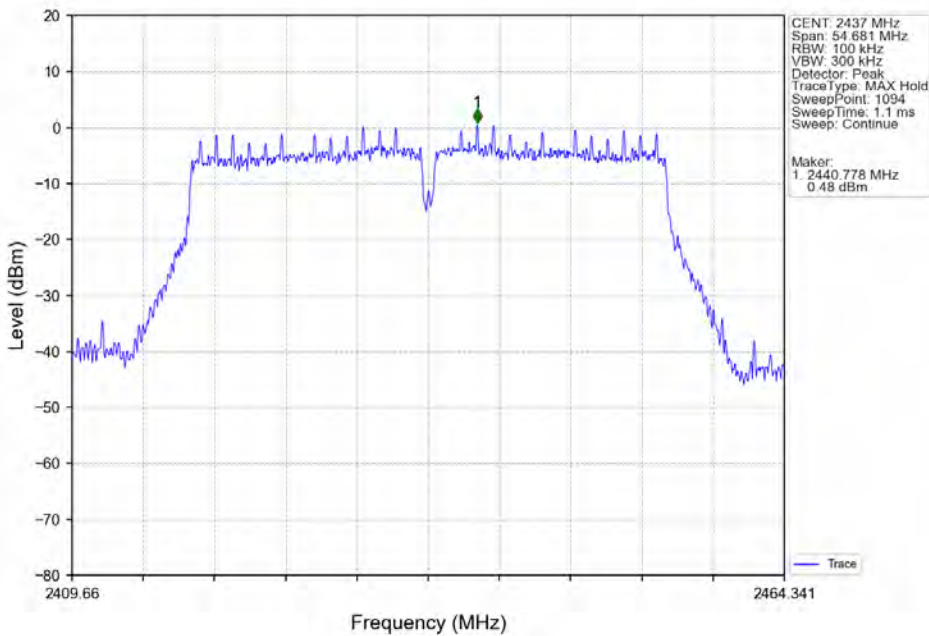




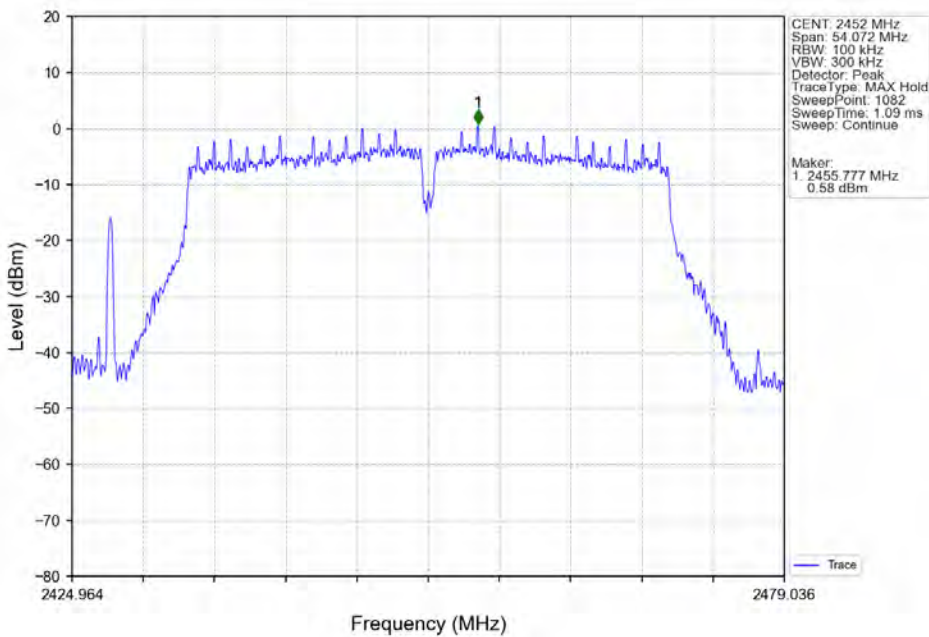
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802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV

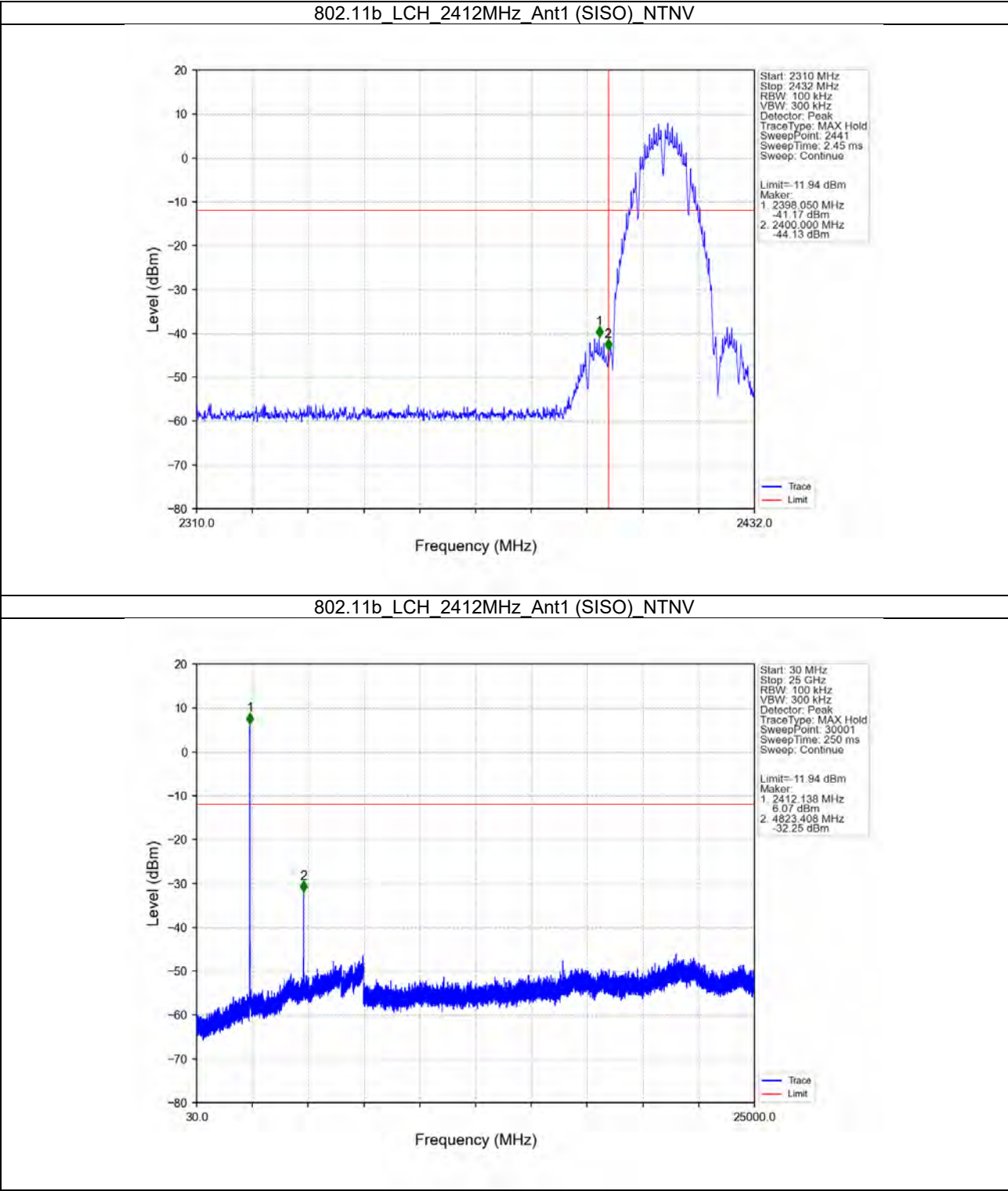




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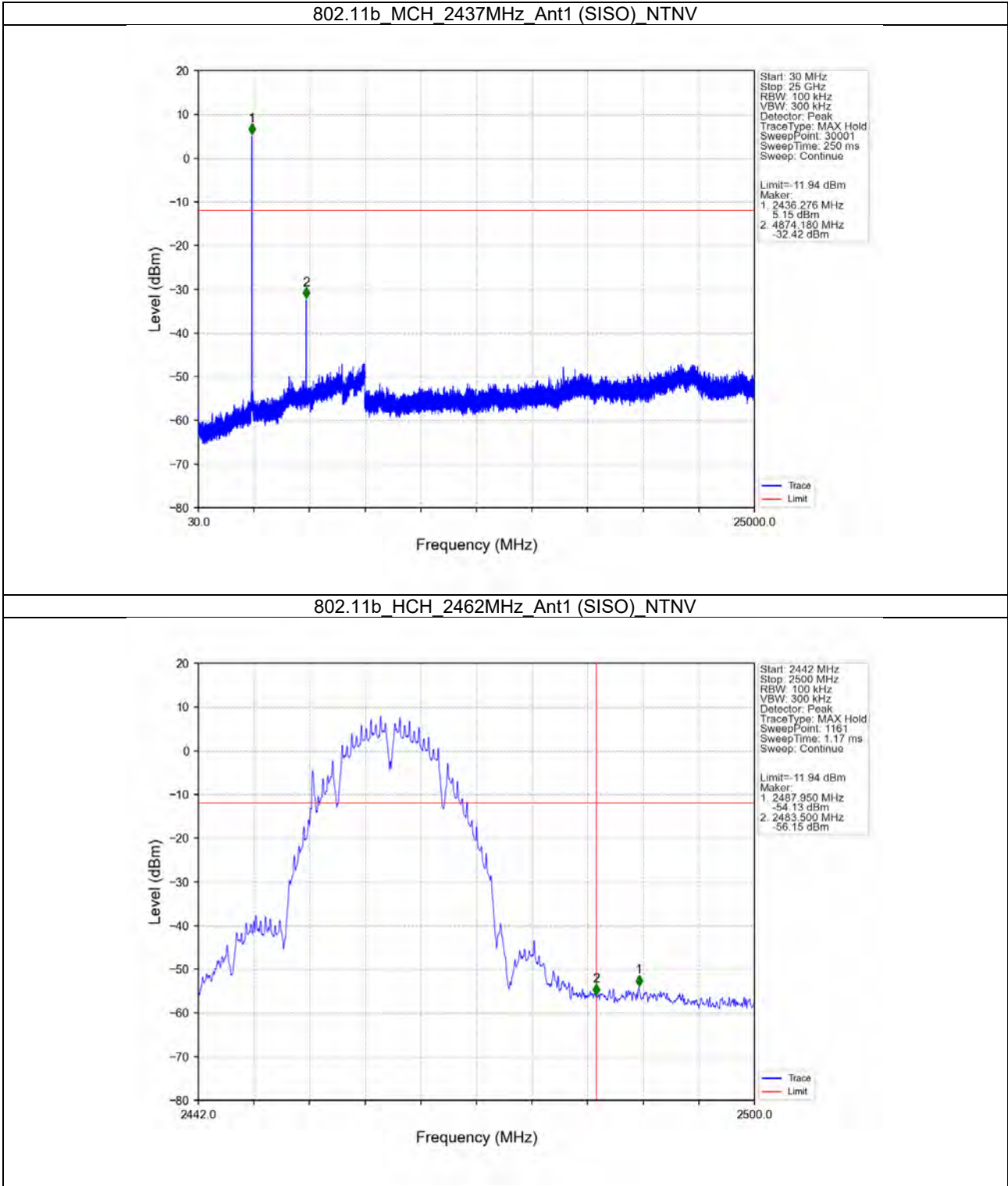
5.2.2 CSE





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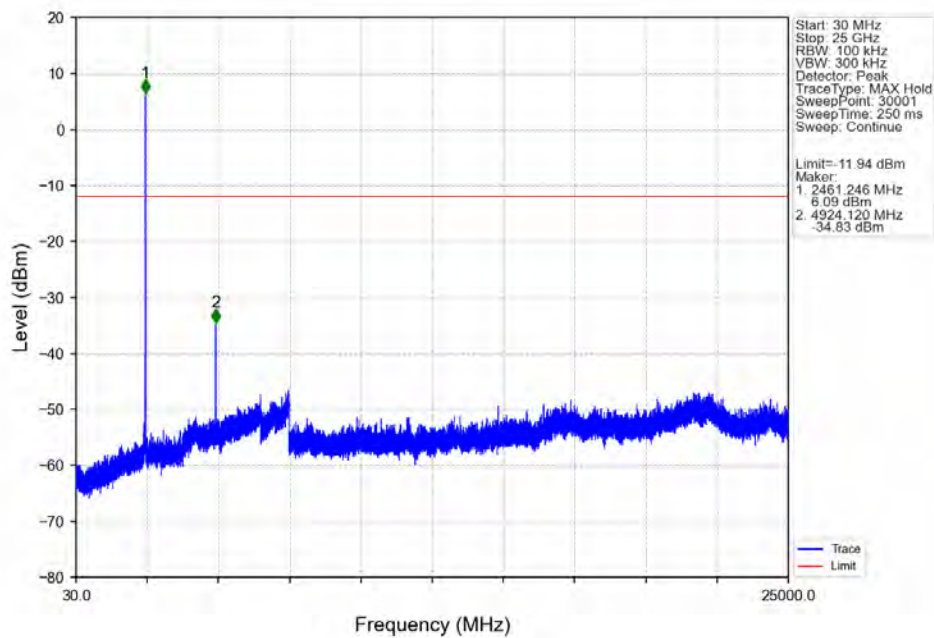




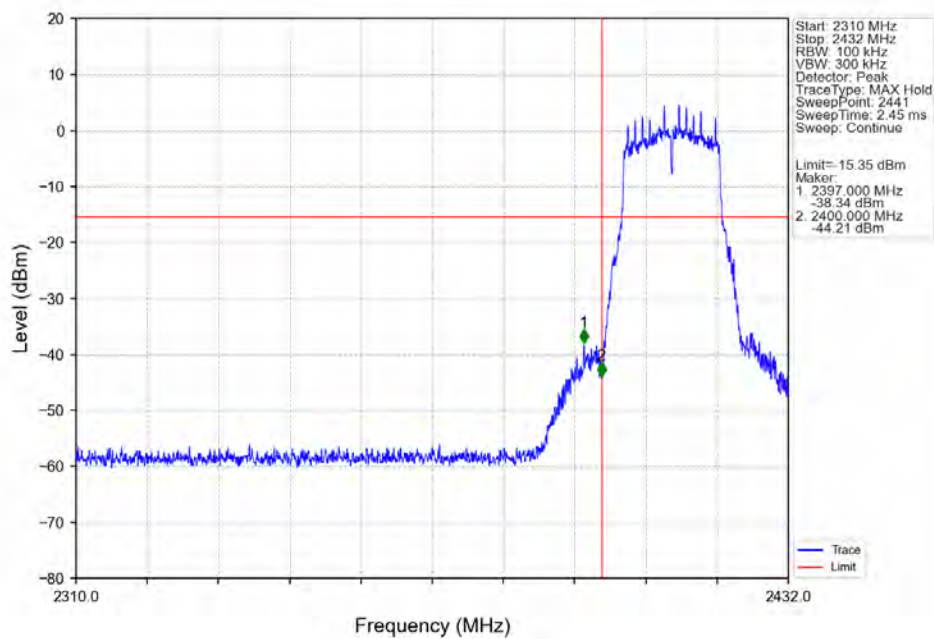
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV

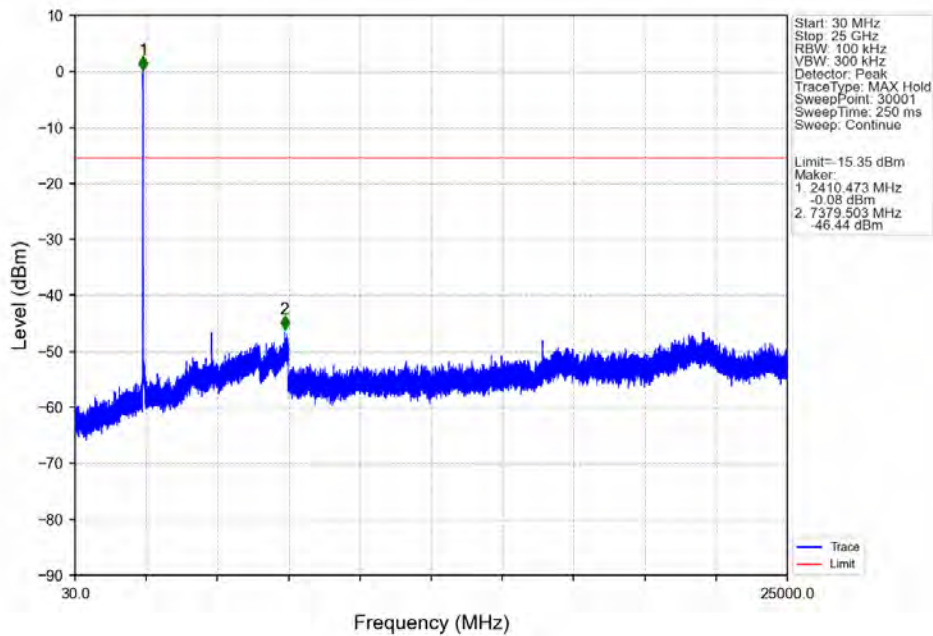




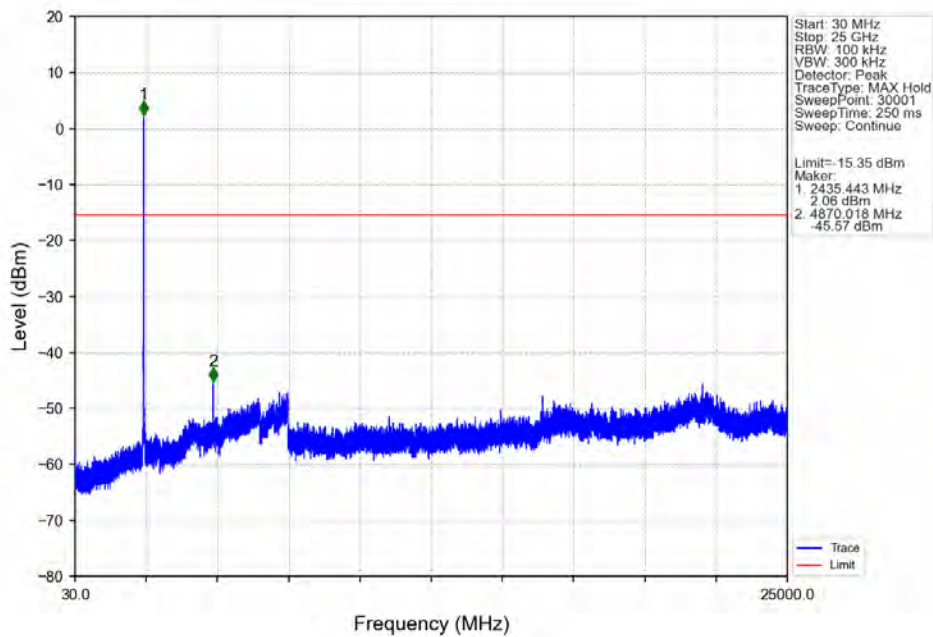
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



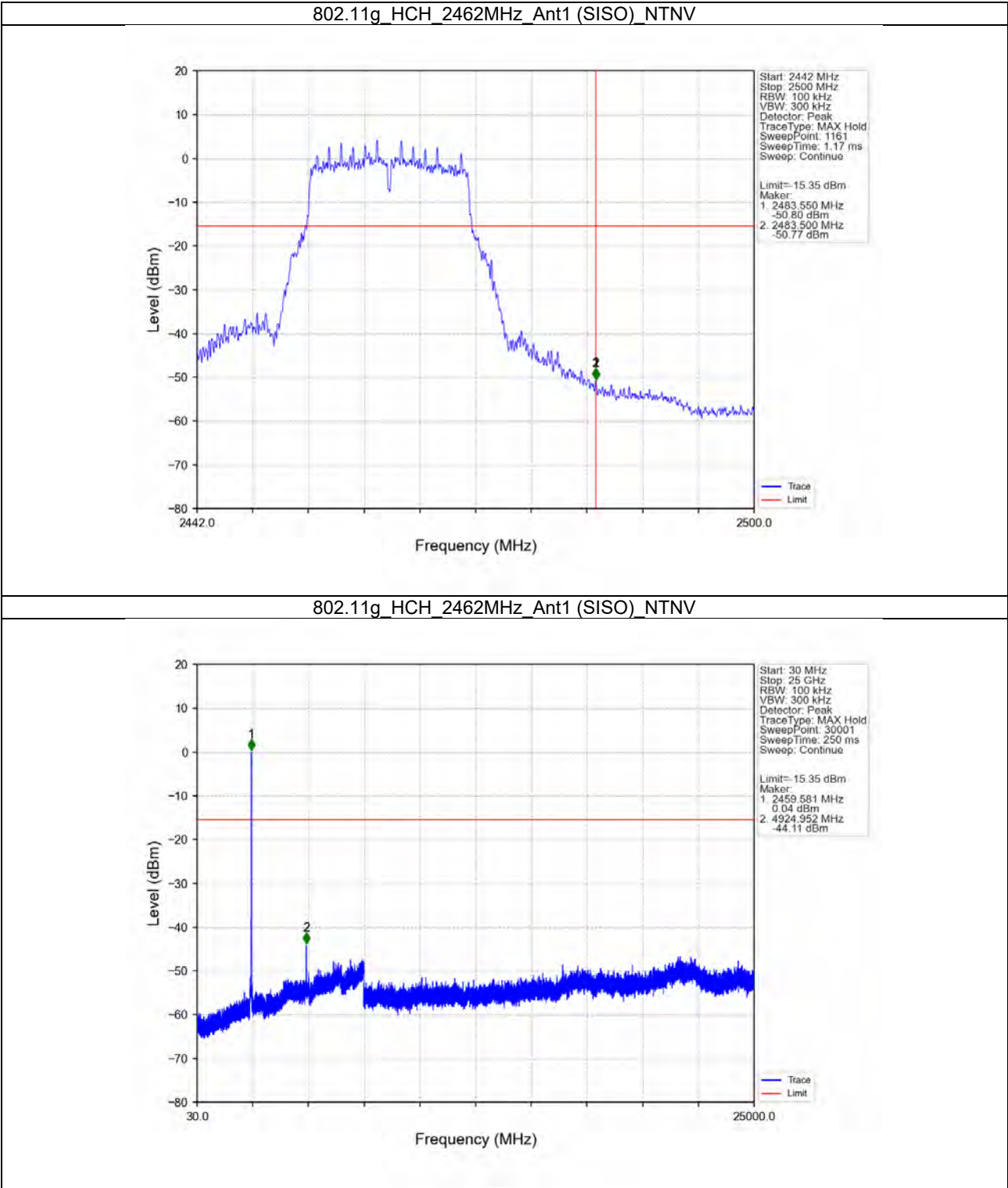
802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV





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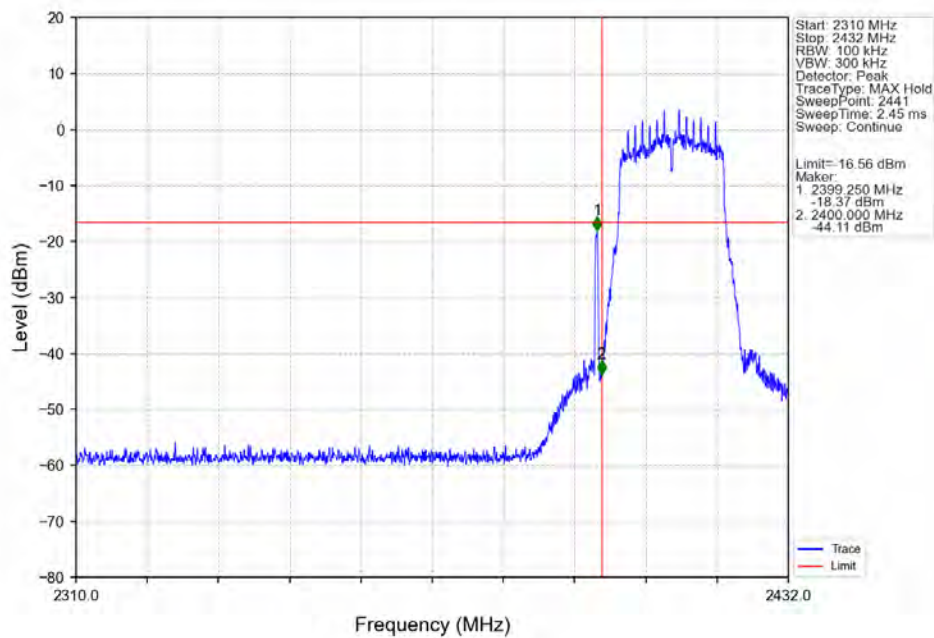




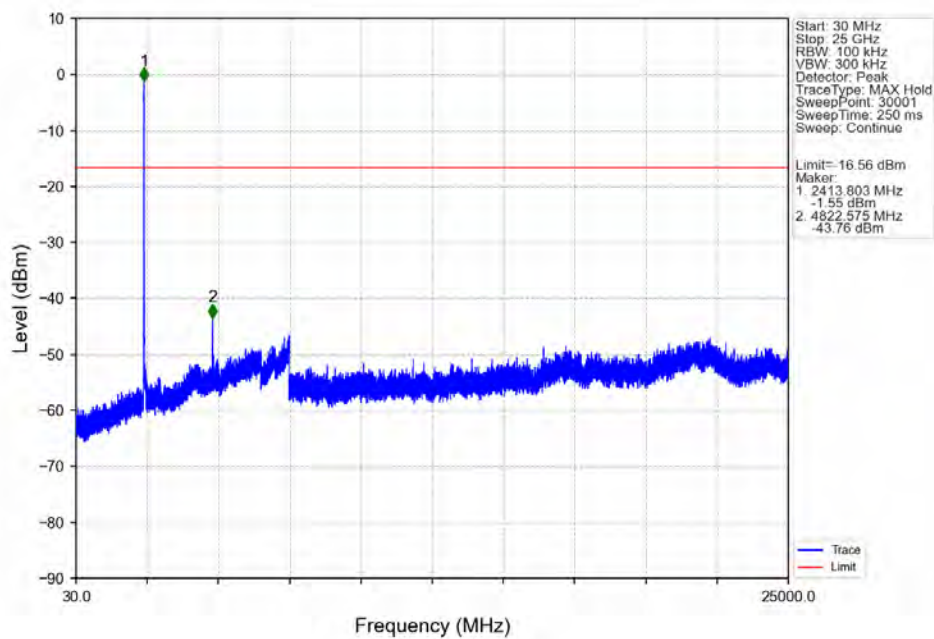
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV

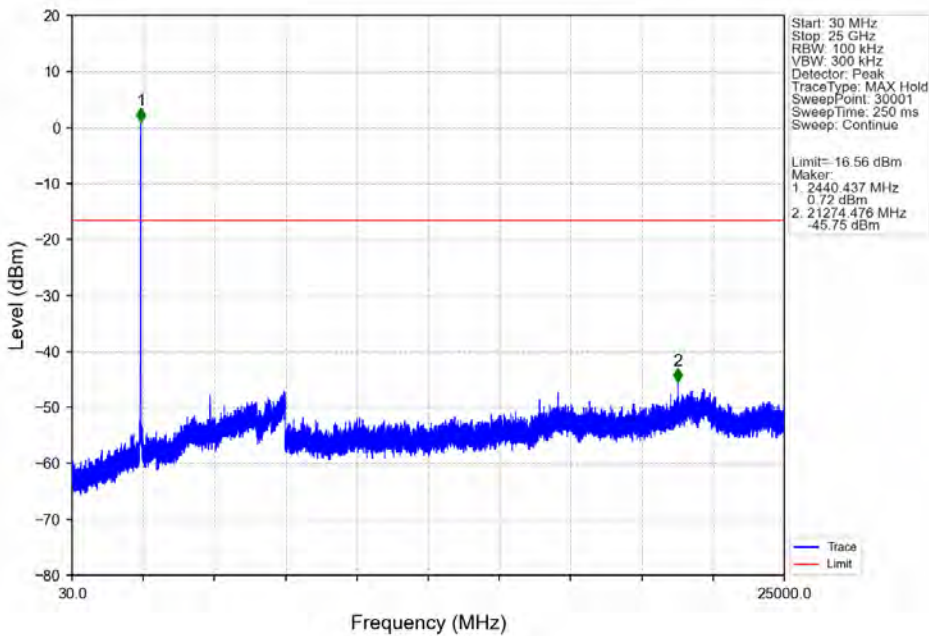




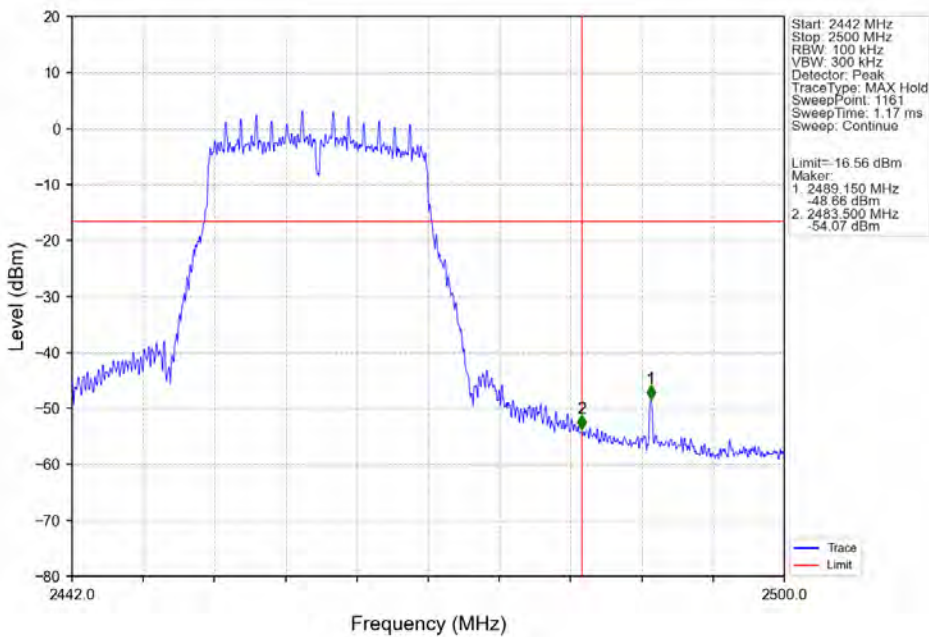
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802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV

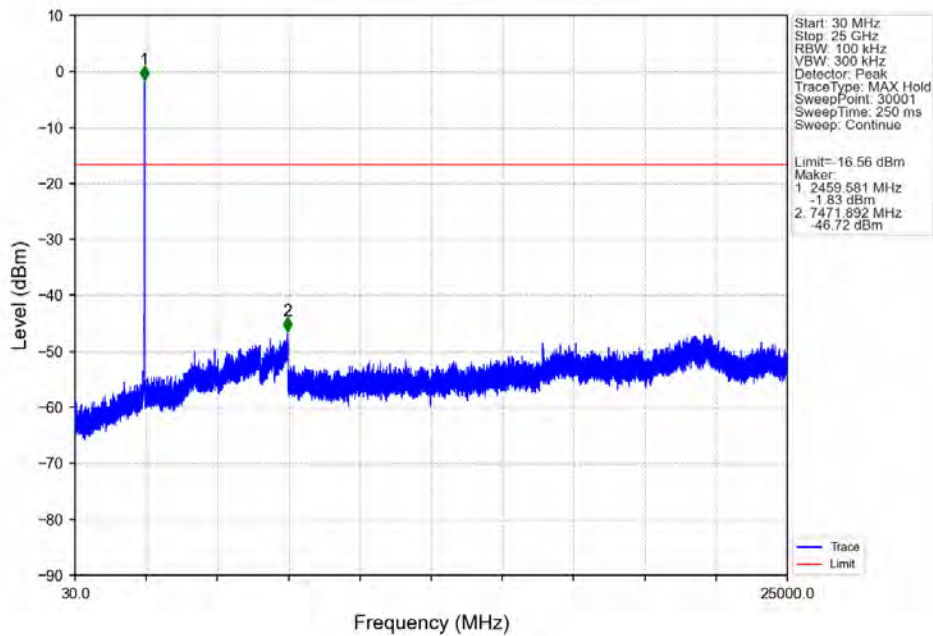




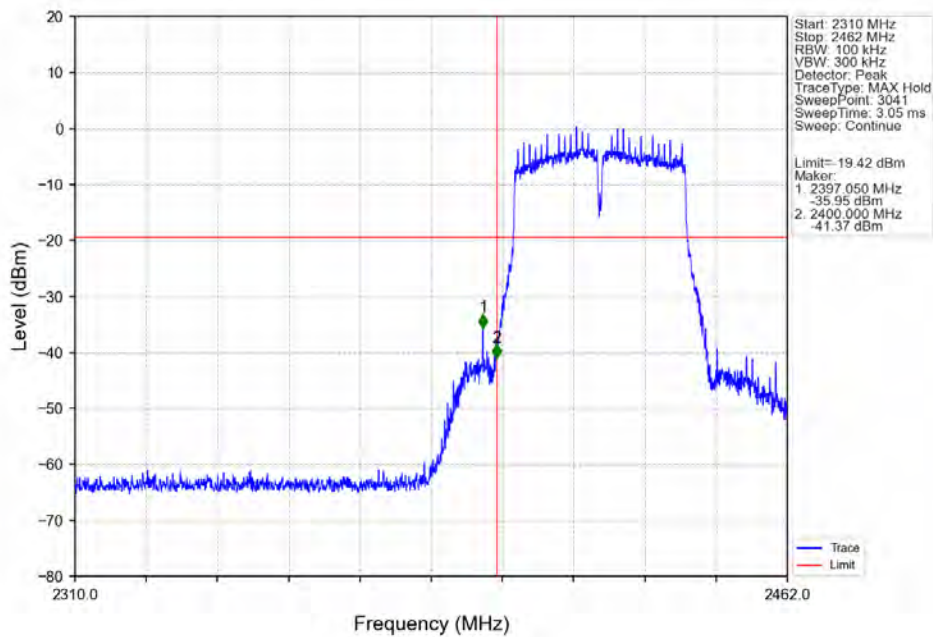
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV

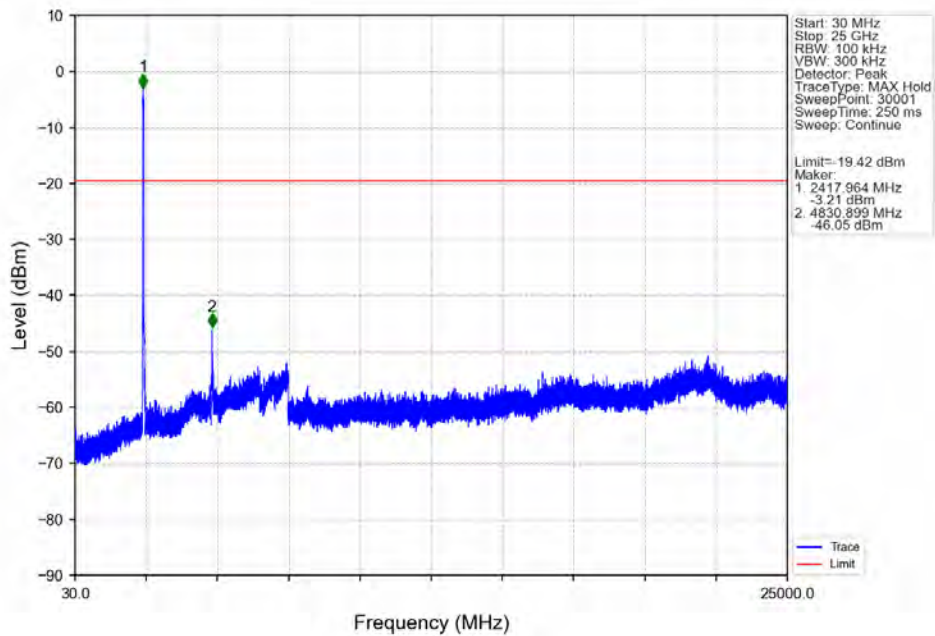




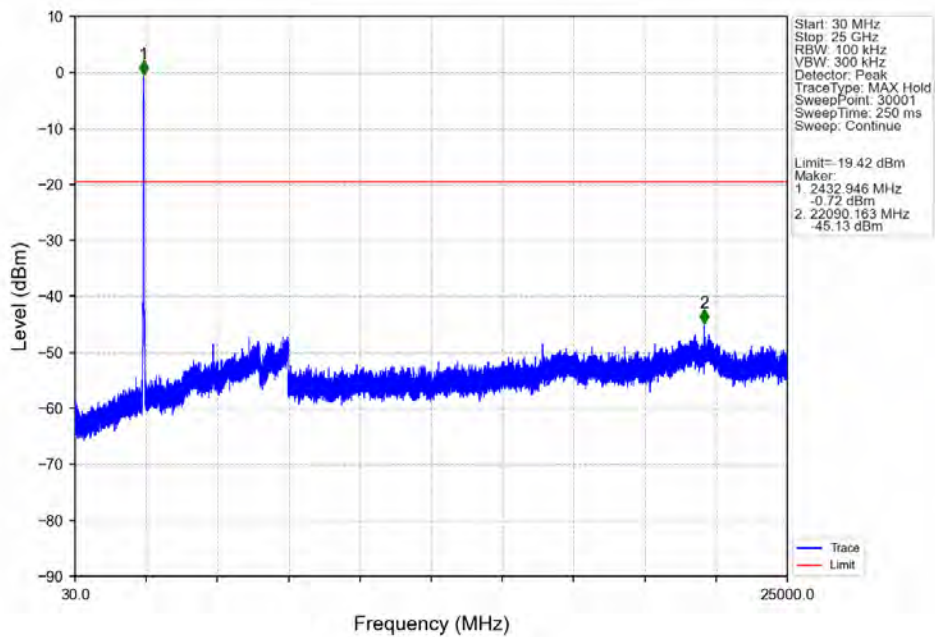
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

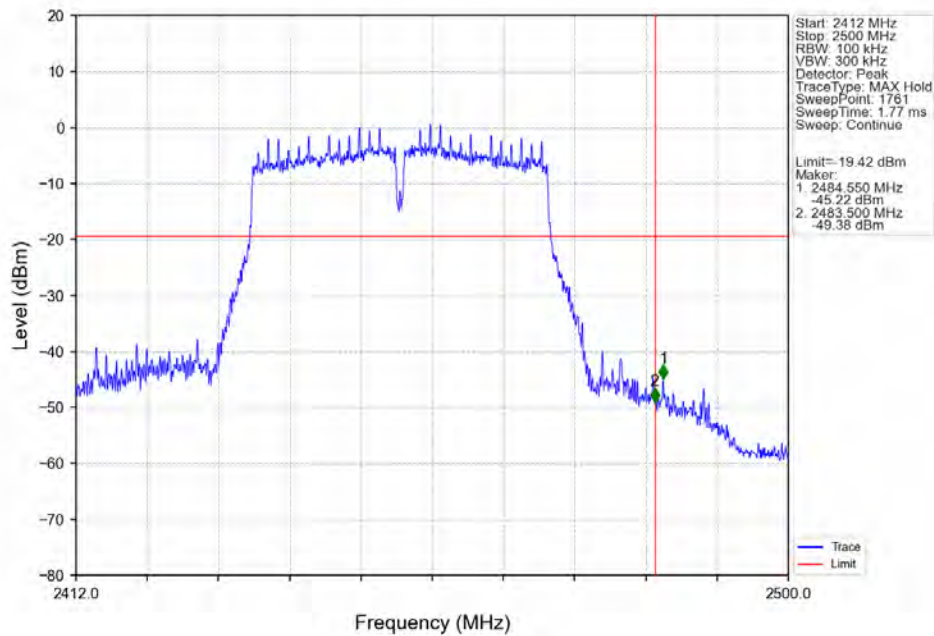




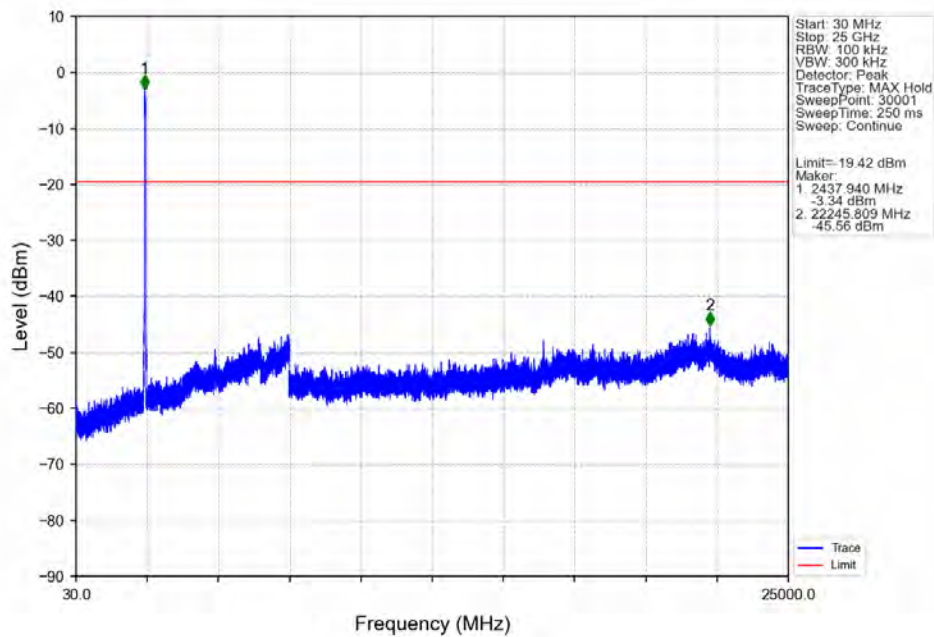
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV





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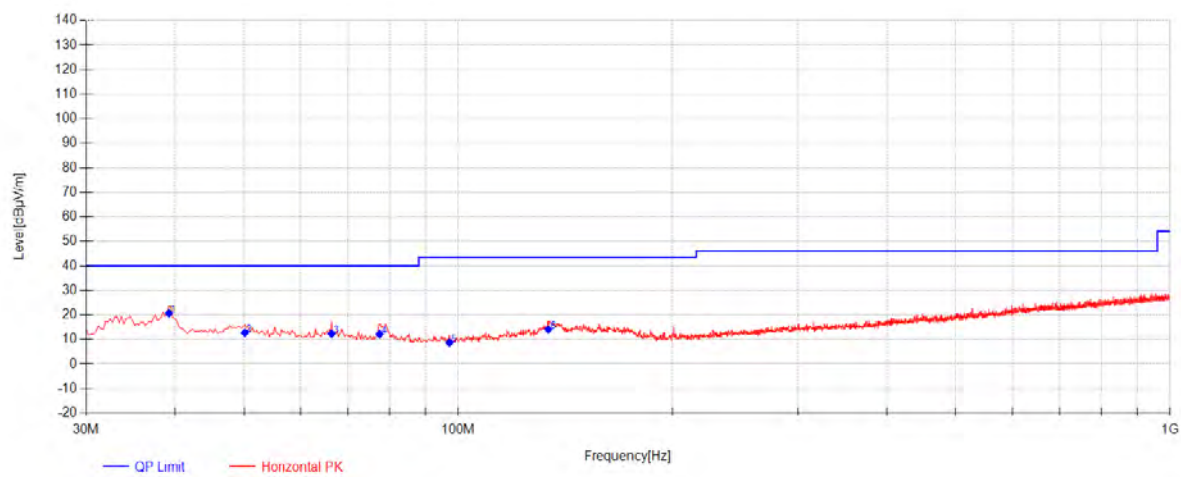
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 11b_Channel 01 WORSE



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	39.215	44.26	-42.24	18.64	20.67	40.00	19.33	Horizontal
2	50.1275	36.23	-42.15	18.59	12.67	40.00	27.33	Horizontal
3	66.375	36.94	-41.89	17.23	12.28	40.00	27.72	Horizontal
4	77.53	38.46	-41.68	15.35	12.13	40.00	27.87	Horizontal
5	97.1725	35.89	-41.43	14.28	8.74	43.50	34.76	Horizontal
6	133.79	37.02	-41.19	18.20	14.03	43.50	29.47	Horizontal



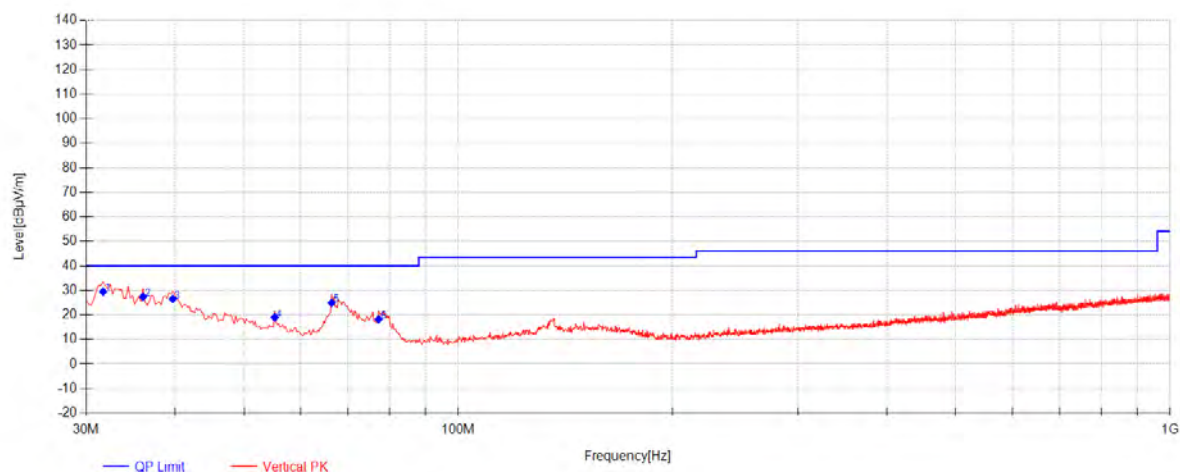
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11b_Channel 01 WORSE



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	31.6975	53.66	-42.30	18.13	29.49	40.00	10.51	Vertical
2	36.0625	51.42	-42.26	18.31	27.47	40.00	12.53	Vertical
3	39.7	50.03	-42.23	18.74	26.54	40.00	13.46	Vertical
4	55.22	42.88	-42.07	18.20	19.01	40.00	20.99	Vertical
5	66.375	49.56	-41.89	17.23	24.90	40.00	15.10	Vertical
6	77.2875	44.58	-41.68	15.37	18.27	40.00	21.73	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:

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

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

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

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



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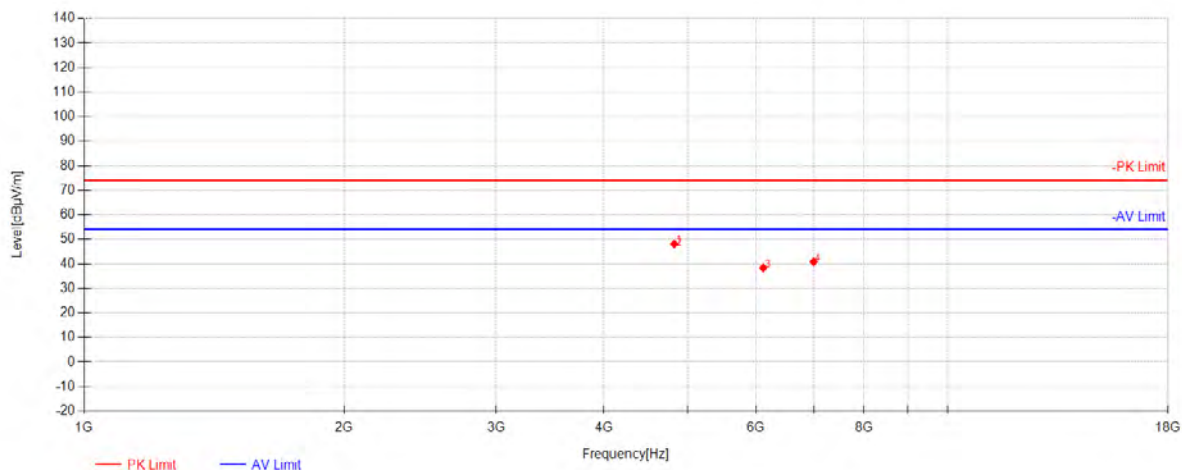
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Transmitter emission Above 1GHz

802.11b_Channel 01



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	62.57	31.12	-45.54	48.15	74.00	25.85	Horizontal
2	4824.375	61.71	31.12	-45.54	47.29	54.00	6.71	Horizontal
3	6115.875	50.10	32.79	-44.50	38.39	74.00	35.61	Horizontal
4	6994.5	49.38	34.99	-43.58	40.79	74.00	33.21	Horizontal



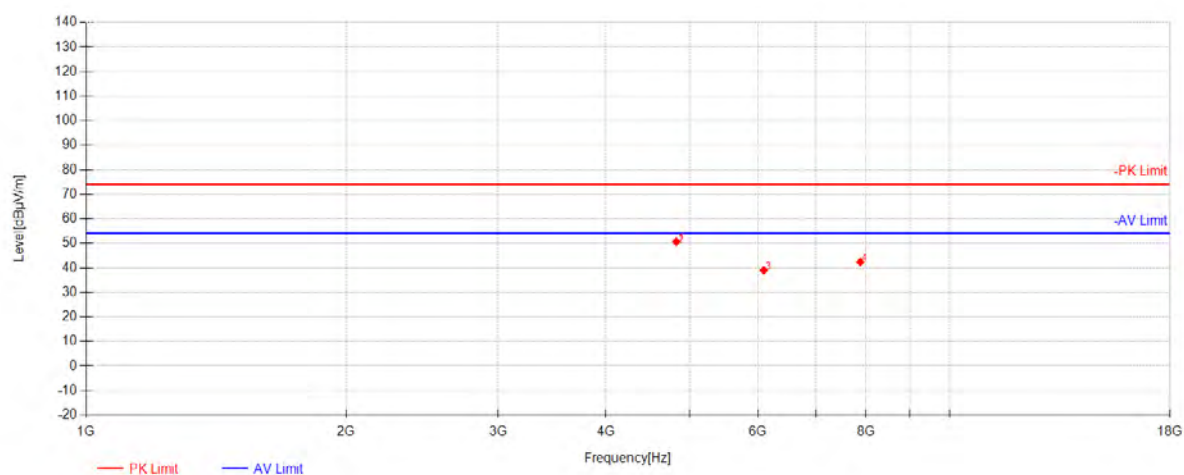
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802.11b_Channel 01



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4824	65.06	31.12	-45.54	50.64	74.00	23.36	Vertical
2	4824.375	64.28	31.12	-45.54	49.86	54.00	4.14	Vertical
3	6091.125	50.80	32.71	-44.48	39.03	74.00	34.97	Vertical
4	7881.75	48.15	36.93	-42.73	42.36	74.00	31.64	Vertical



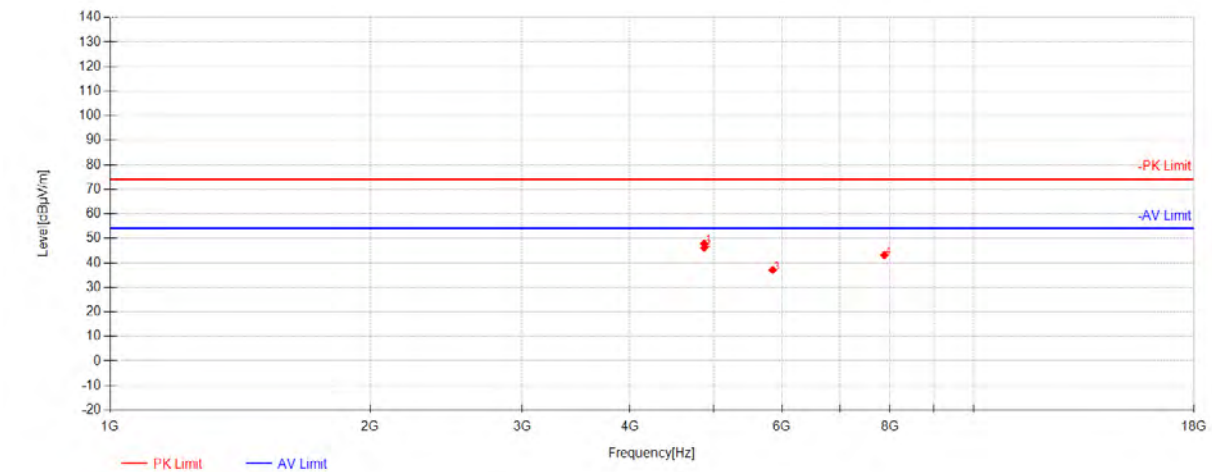
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802.11b_Channel 06



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.875	62.15	31.20	-45.53	47.82	74.00	26.18	Horizontal
2	4874.25	60.41	31.20	-45.53	46.08	54.00	7.92	Horizontal
3	5851.125	49.60	32.37	-44.86	37.11	74.00	36.89	Horizontal
4	7881.75	48.87	36.93	-42.73	43.08	74.00	30.92	Horizontal



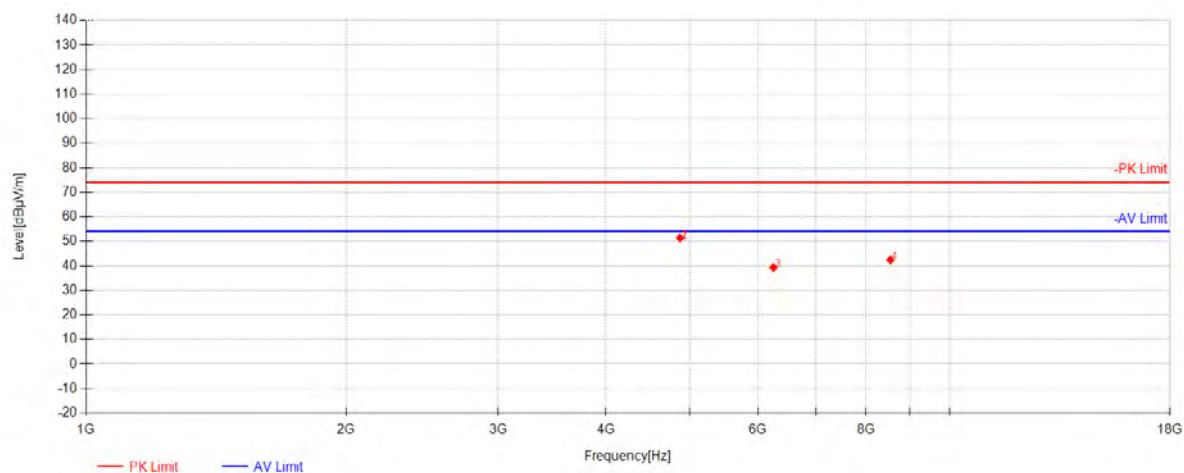
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802.11b_Channel 06



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.875	65.72	31.20	-45.53	51.39	74.00	22.61	Vertical
2	4874.25	64.85	31.20	-45.53	50.52	54.00	3.48	Vertical
3	6249.375	50.71	33.25	-44.65	39.31	74.00	34.69	Vertical
4	8541.375	47.13	36.78	-41.50	42.41	74.00	31.59	Vertical



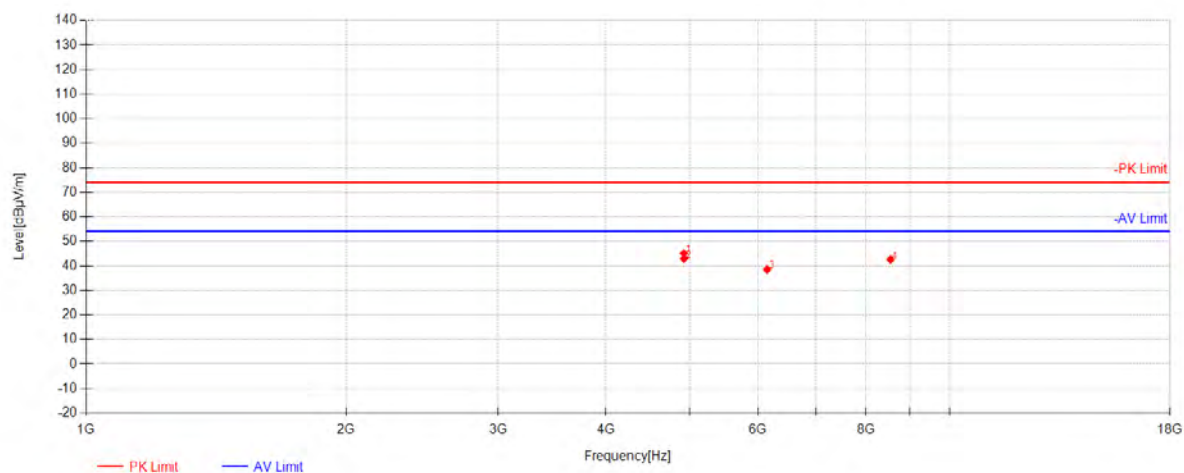
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802.11b_Channel 11



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.125	59.32	31.28	-45.56	45.04	74.00	28.96	Horizontal
2	4924.5	57.13	31.28	-45.56	42.85	54.00	11.15	Horizontal
3	6145.5	50.23	32.89	-44.59	38.53	74.00	35.47	Horizontal
4	8541.75	47.29	36.77	-41.50	42.57	74.00	31.43	Horizontal



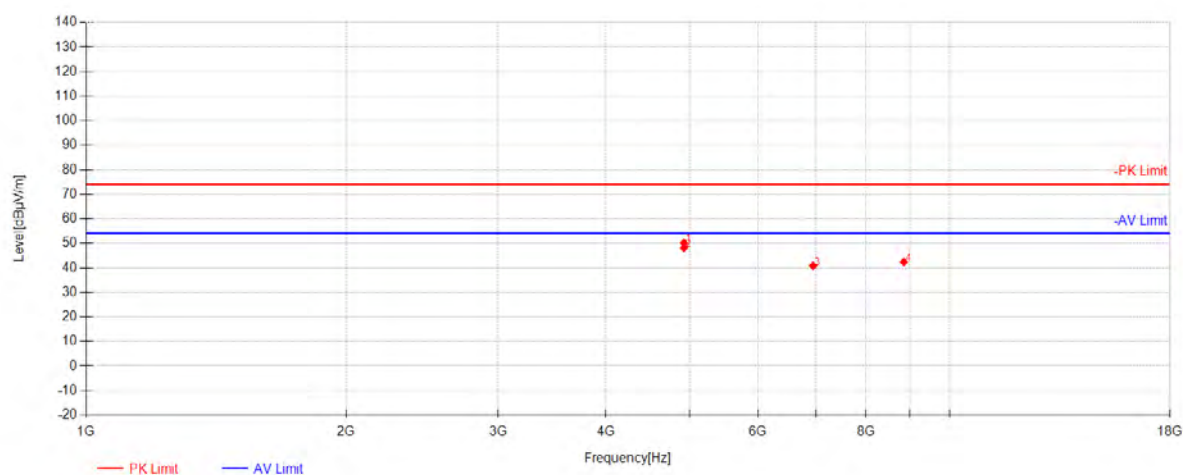
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802.11b_Channel 11



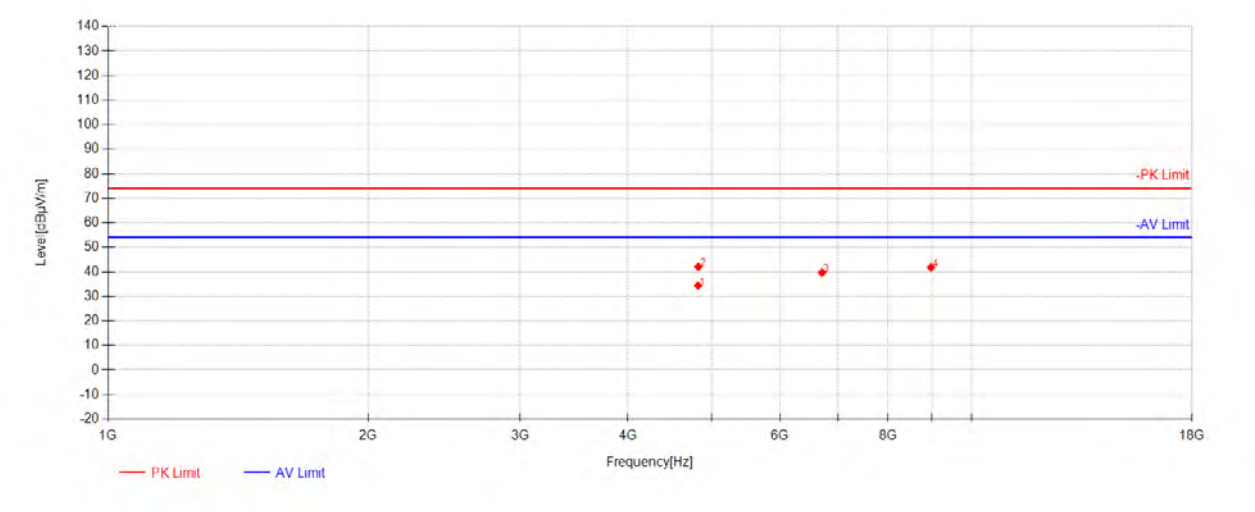
Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4923.75	64.49	31.28	-45.56	50.21	74.00	23.79	Vertical
2	4924.5	62.49	31.28	-45.56	48.21	54.00	5.79	Vertical
3	6948.375	49.75	34.91	-43.83	40.82	74.00	33.18	Vertical
4	8852.25	47.03	36.59	-41.24	42.37	74.00	31.63	Vertical



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802.11g_Channel 01



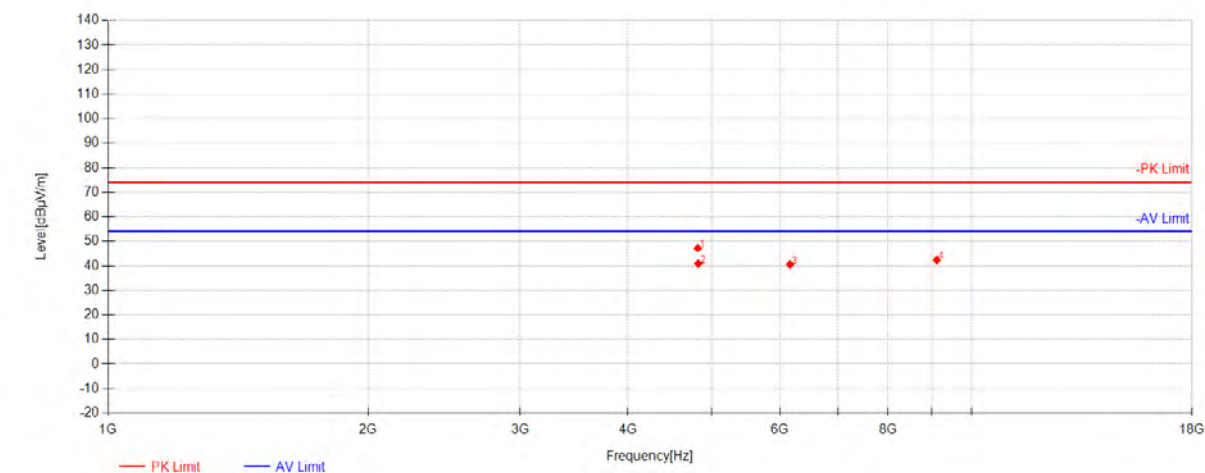
Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4822.125	48.76	31.12	-45.54	34.34	54.00	19.66	Horizontal
2	4825.125	56.44	31.12	-45.54	42.02	74.00	31.98	Horizontal
3	6709.5	49.05	34.48	-43.84	39.68	74.00	34.32	Horizontal
4	8974.5	46.32	36.52	-41.06	41.77	74.00	32.23	Horizontal



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802.11g_Channel 01



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4818.75	61.65	31.11	-45.54	47.22	74.00	26.78	Vertical
2	4824.375	55.32	31.12	-45.54	40.90	54.00	13.10	Vertical
3	6161.625	52.25	32.95	-44.64	40.56	74.00	33.44	Vertical
4	9113.625	45.98	36.73	-40.34	42.37	74.00	31.63	Vertical



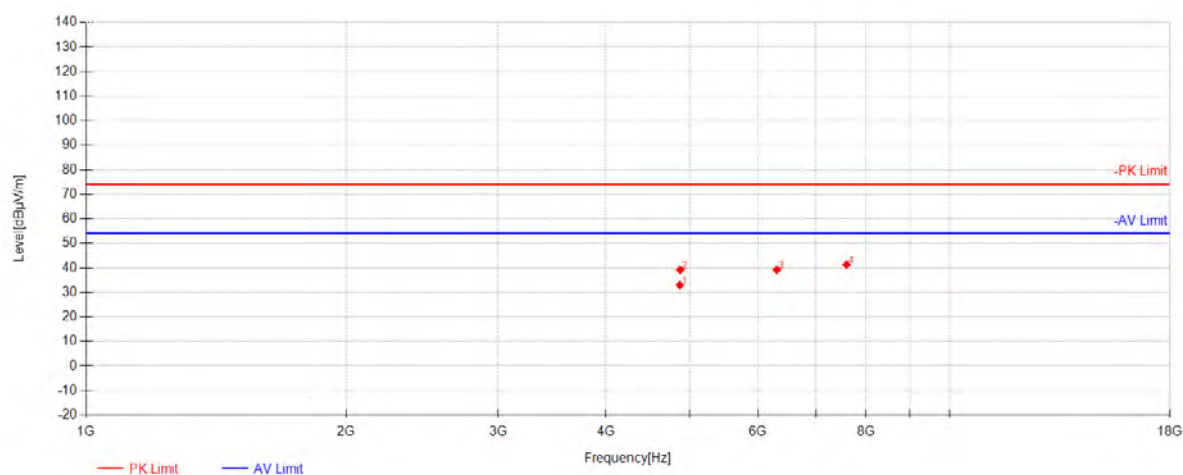
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11g_Channel 06



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4870.875	47.25	31.19	-45.53	32.91	54.00	21.09	Horizontal
2	4875	53.55	31.20	-45.53	39.22	74.00	34.78	Horizontal
3	6306.75	50.33	33.44	-44.53	39.24	74.00	34.76	Horizontal
4	7599	47.72	36.54	-42.93	41.33	74.00	32.67	Horizontal



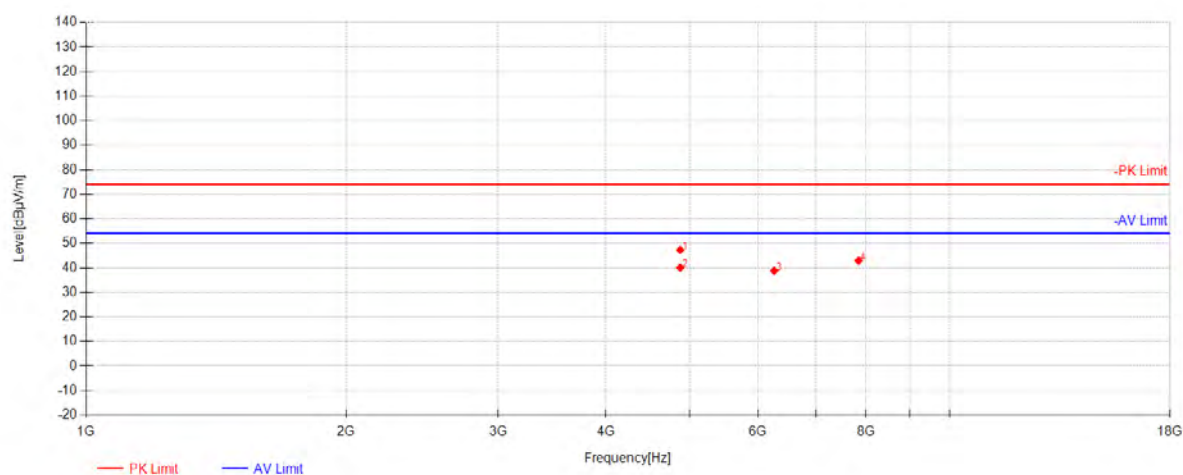
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4876.125	61.66	31.20	-45.53	47.33	74.00	26.67	Vertical
2	4876.5	54.41	31.20	-45.53	40.08	54.00	13.92	Vertical
3	6262.5	50.14	33.29	-44.62	38.81	74.00	35.19	Vertical
4	7843.125	48.51	36.88	-42.53	42.86	74.00	31.14	Vertical



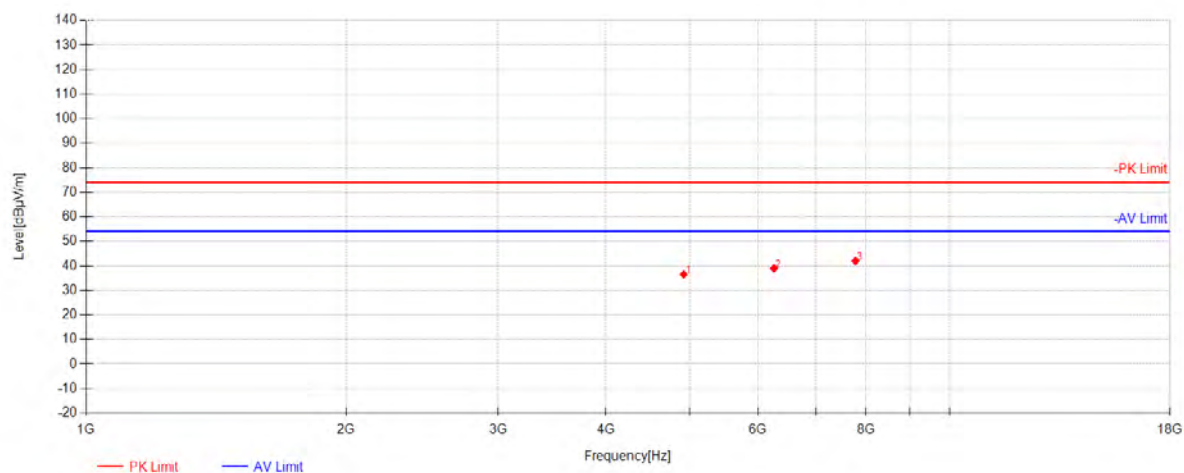
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11g_Channel 11



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4921.125	50.77	31.27	-45.55	36.49	74.00	37.51	Horizontal
2	6259.875	50.33	33.28	-44.63	38.99	74.00	35.01	Horizontal
3	7779.75	47.63	36.79	-42.47	41.95	74.00	32.05	Horizontal



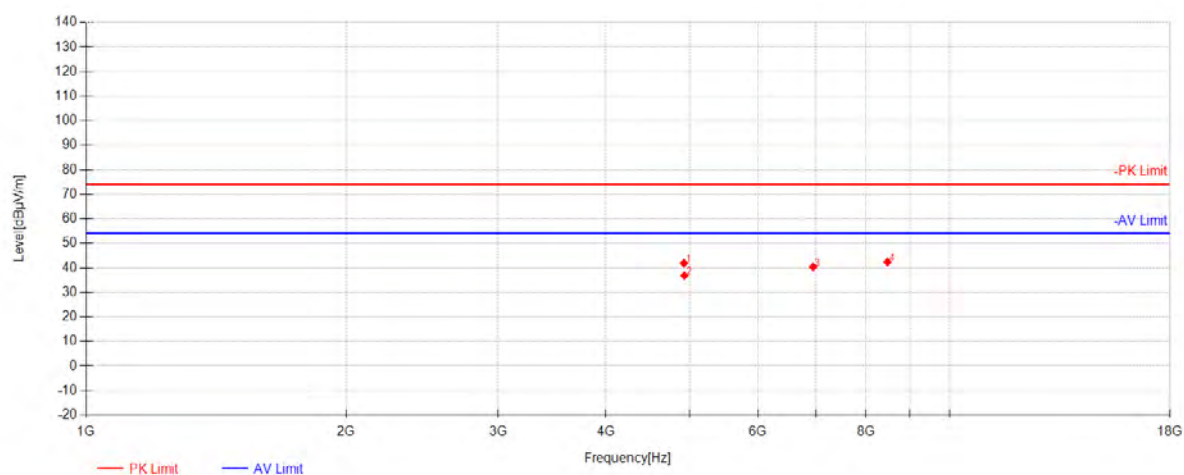
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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4924.5	56.16	31.28	-45.56	41.88	74.00	32.12	Vertical
2	4930.5	51.10	31.29	-45.56	36.83	54.00	17.17	Vertical
3	6947.625	49.32	34.91	-43.84	40.39	74.00	33.61	Vertical
4	8473.875	47.14	36.82	-41.58	42.38	74.00	31.62	Vertical



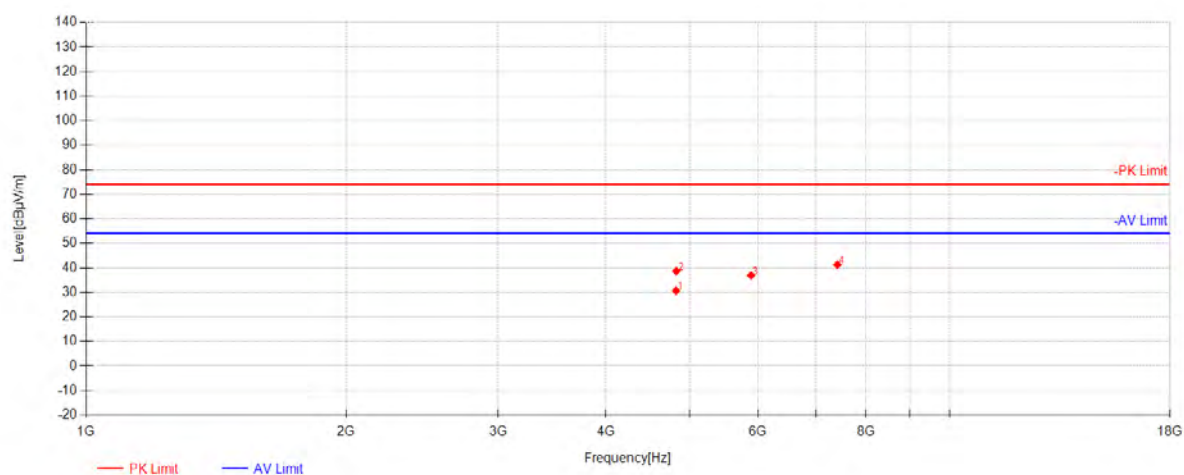
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4821.75	45.09	31.11	-45.54	30.67	54.00	23.33	Horizontal
2	4824.75	53.12	31.12	-45.54	38.70	74.00	35.30	Horizontal
3	5888.25	49.48	32.38	-44.94	36.91	74.00	37.09	Horizontal
4	7414.5	48.50	36.16	-43.37	41.29	74.00	32.71	Horizontal



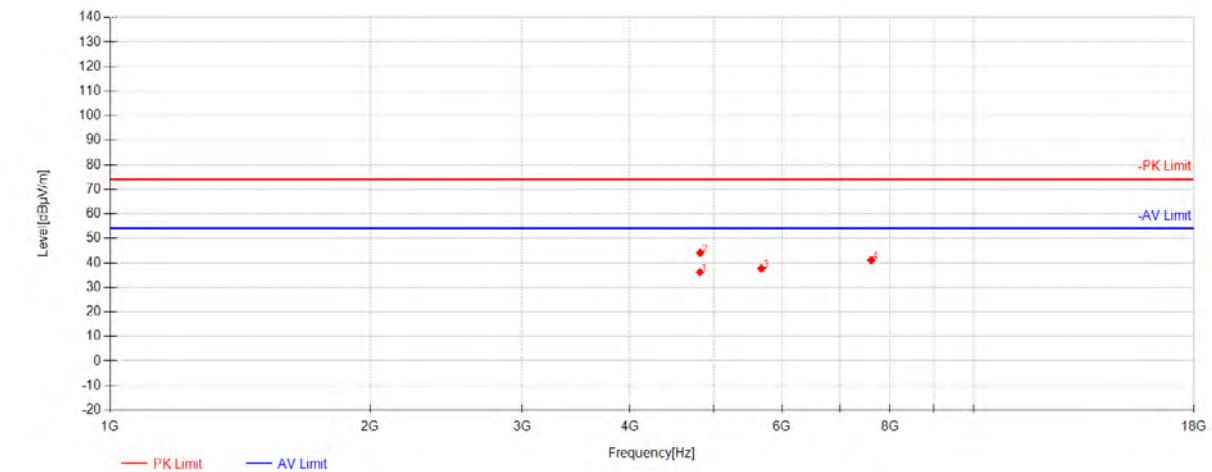
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4821	50.61	31.11	-45.54	36.19	54.00	17.81	Vertical
2	4823.625	58.42	31.12	-45.54	44.00	74.00	30.00	Vertical
3	5677.875	50.26	32.34	-44.90	37.70	74.00	36.30	Vertical
4	7610.625	47.44	36.55	-42.95	41.04	74.00	32.96	Vertical



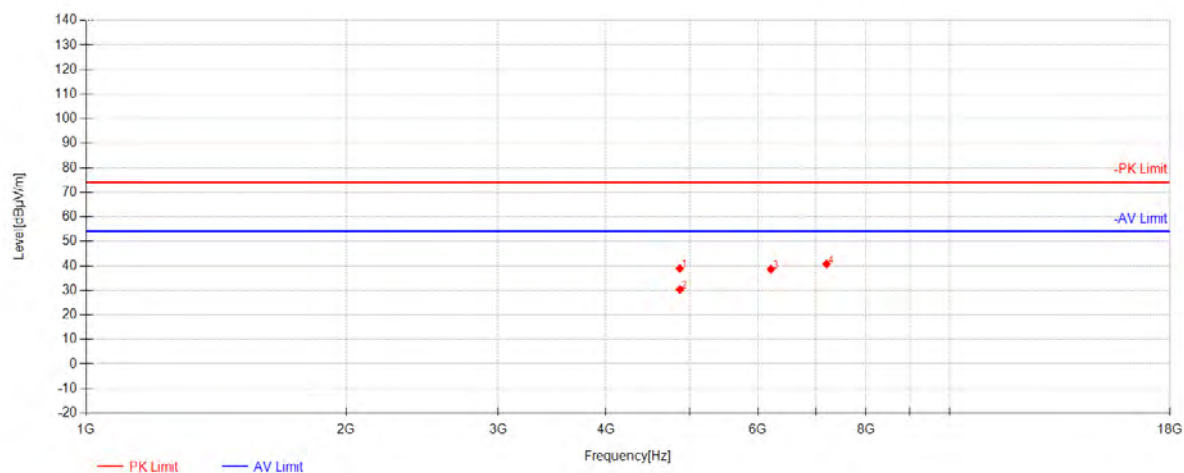
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802.11n20_Channel 06



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4870.125	53.27	31.19	-45.53	38.93	74.00	35.07	Horizontal
2	4871.625	44.69	31.19	-45.53	30.35	54.00	23.65	Horizontal
3	6208.875	50.27	33.11	-44.74	38.64	74.00	35.36	Horizontal
4	7201.875	48.58	35.57	-43.43	40.72	74.00	33.28	Horizontal



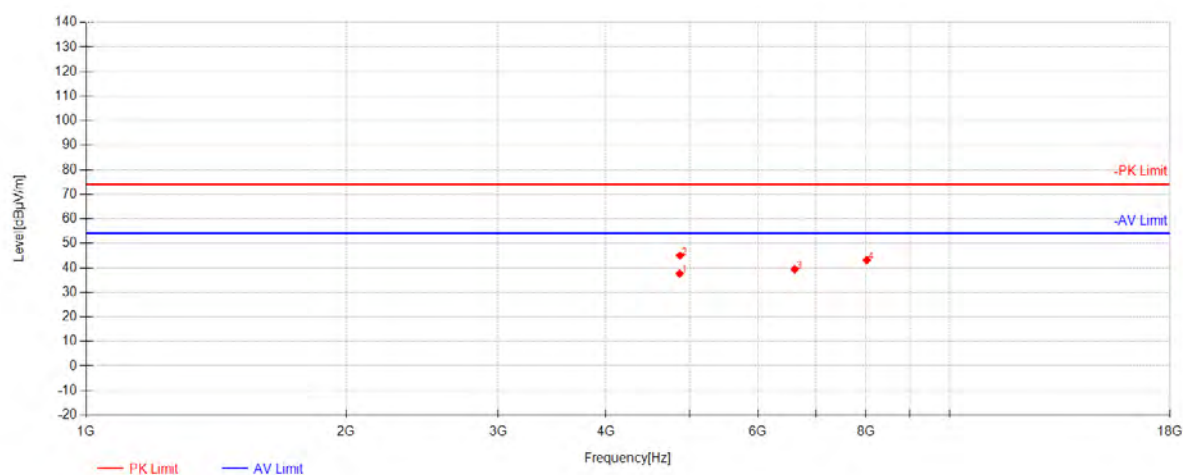
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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4868.625	52.02	31.19	-45.53	37.68	54.00	16.32	Vertical
2	4872.75	59.31	31.20	-45.53	44.97	74.00	29.03	Vertical
3	6614.625	49.39	34.31	-44.27	39.43	74.00	34.57	Vertical
4	8017.875	48.16	37.09	-42.17	43.08	74.00	30.92	Vertical



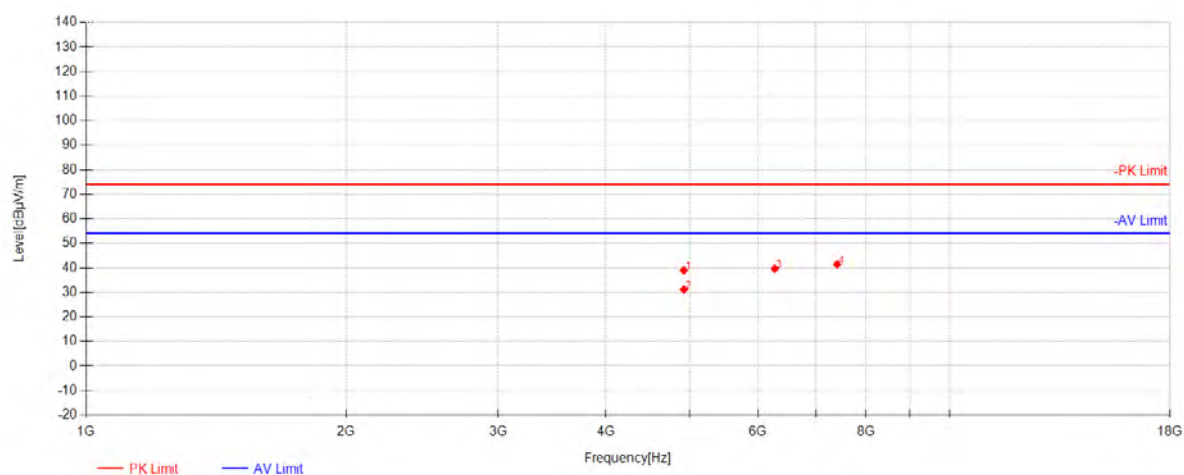
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802.11n20_Channel 11



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4922.625	53.25	31.28	-45.55	38.97	74.00	35.03	Horizontal
2	4923	45.45	31.28	-45.56	31.17	54.00	22.83	Horizontal
3	6271.875	50.92	33.32	-44.60	39.64	74.00	34.36	Horizontal
4	7408.875	48.66	36.14	-43.39	41.42	74.00	32.58	Horizontal



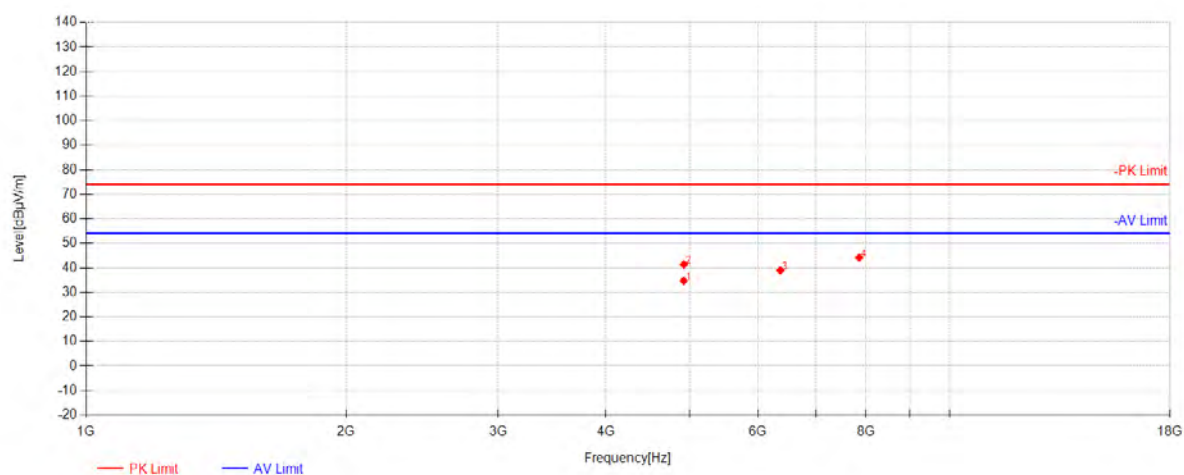
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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4921.125	48.96	31.27	-45.55	34.68	54.00	19.32	Vertical
2	4923	55.66	31.28	-45.56	41.38	74.00	32.62	Vertical
3	6368.25	49.79	33.65	-44.45	38.99	74.00	35.01	Vertical
4	7857.75	49.81	36.90	-42.60	44.11	74.00	29.89	Vertical



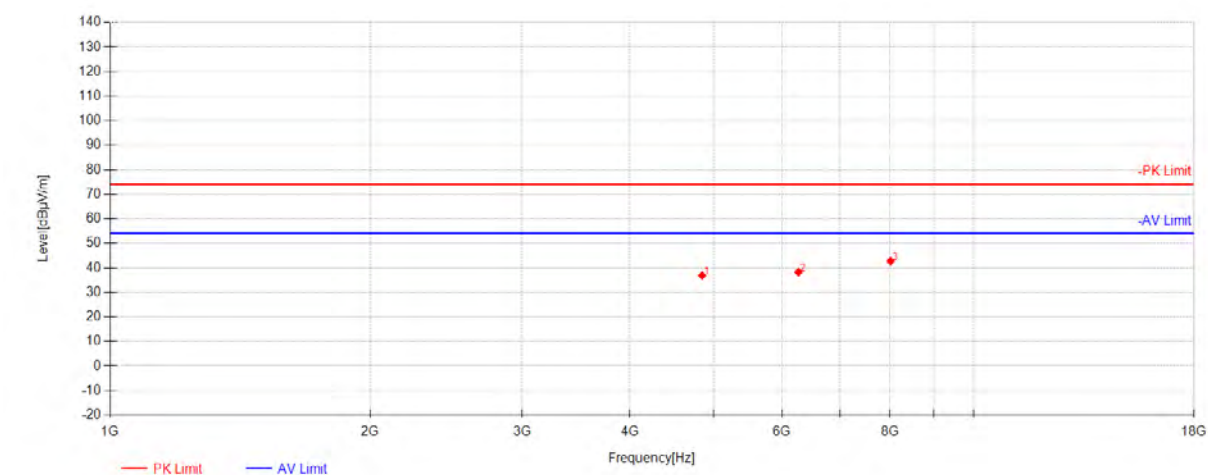
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11n40_Channel 03



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4848.375	51.26	31.16	-45.54	36.88	74.00	37.12	Horizontal
2	6268.5	49.59	33.31	-44.61	38.29	74.00	35.71	Horizontal
3	8012.625	47.81	37.09	-42.23	42.68	74.00	31.32	Horizontal



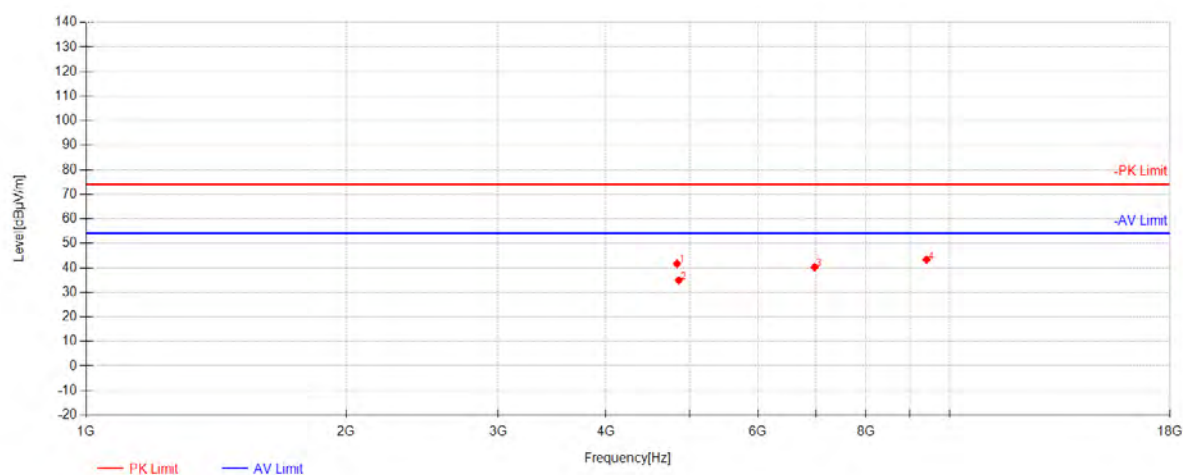
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802.11n40_Channel 03



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4833.75	56.08	31.13	-45.54	41.68	74.00	32.32	Vertical
2	4857	49.25	31.17	-45.53	34.89	54.00	19.11	Vertical
3	6975.375	49.01	34.96	-43.69	40.28	74.00	33.72	Vertical
4	9402.375	45.83	37.30	-39.84	43.30	74.00	30.70	Vertical



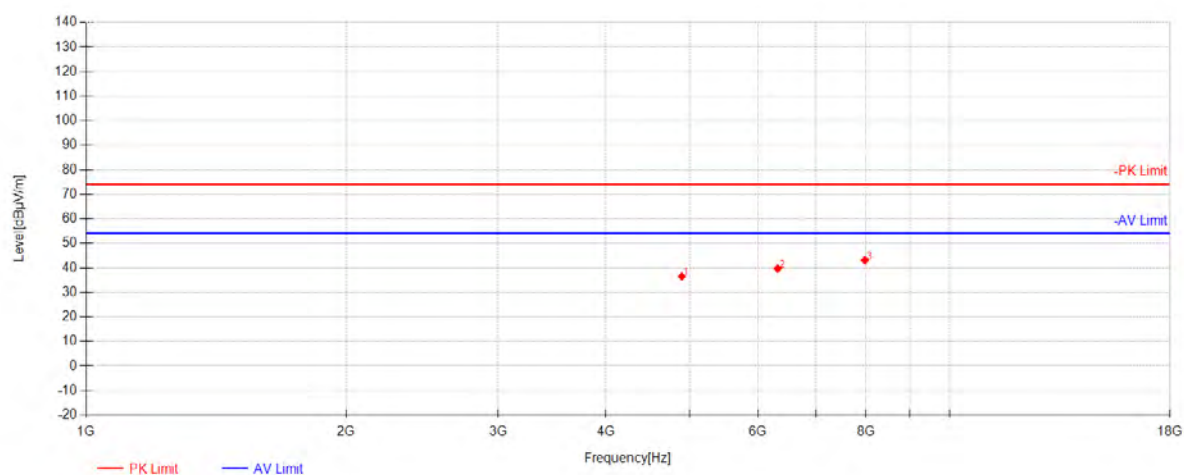
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11n40_Channel 06



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4896	50.79	31.23	-45.53	36.49	74.00	37.51	Horizontal
2	6321.75	50.72	33.49	-44.51	39.70	74.00	34.30	Horizontal
3	7977	48.46	37.07	-42.46	43.07	74.00	30.93	Horizontal



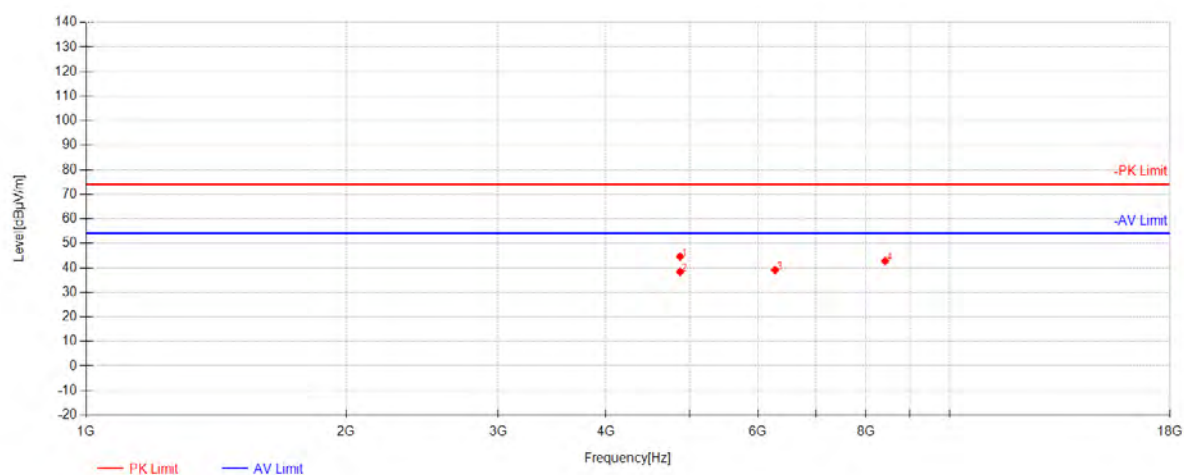
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4873.5	58.87	31.20	-45.53	44.53	74.00	29.47	Vertical
2	4873.875	52.75	31.20	-45.53	38.42	54.00	15.58	Vertical
3	6278.25	50.37	33.35	-44.59	39.13	74.00	34.87	Vertical
4	8420.625	47.35	36.85	-41.49	42.71	74.00	31.29	Vertical



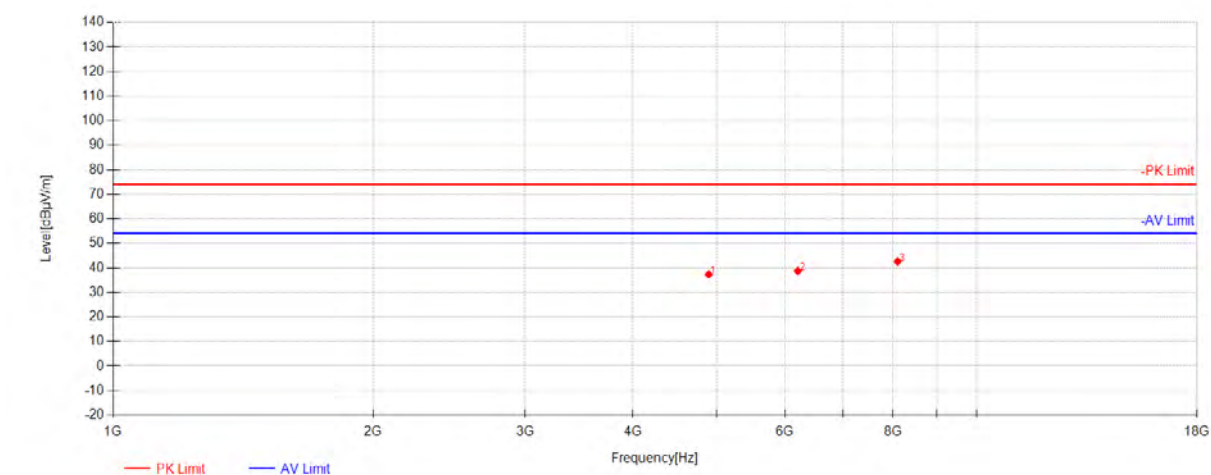
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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802.11n40_Channel 09



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4894.875	51.66	31.23	-45.53	37.36	74.00	36.64	Horizontal
2	6208.125	50.35	33.11	-44.74	38.72	74.00	35.28	Horizontal
3	8099.625	46.86	37.04	-41.36	42.54	74.00	31.46	Horizontal



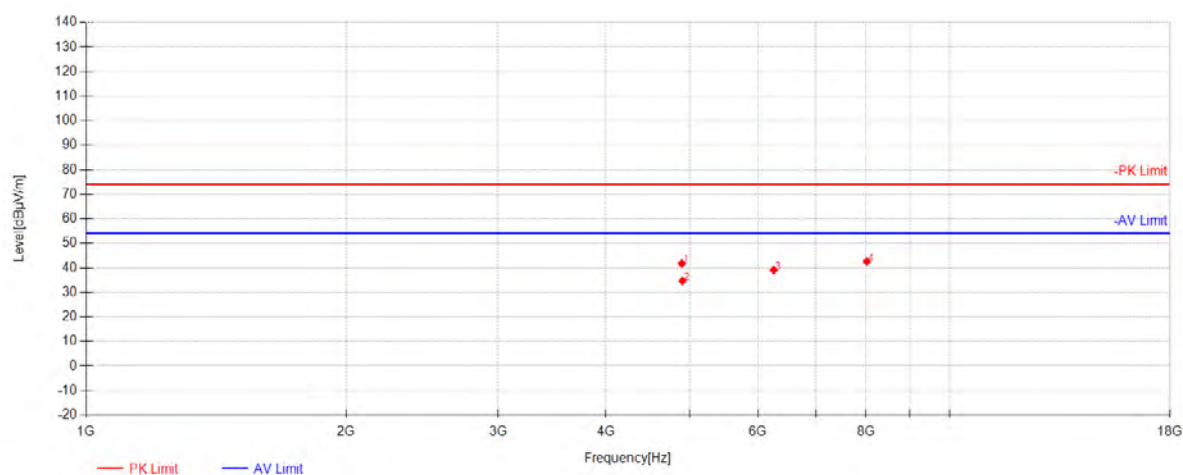
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802.11n40_Channel 09



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	4896.375	56.04	31.23	-45.53	41.74	74.00	32.26	Vertical
2	4904.625	48.94	31.25	-45.54	34.65	54.00	19.35	Vertical
3	6255.375	50.51	33.27	-44.64	39.14	74.00	34.86	Vertical
4	8019.375	47.64	37.09	-42.16	42.57	74.00	31.43	Vertical

Remark:

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



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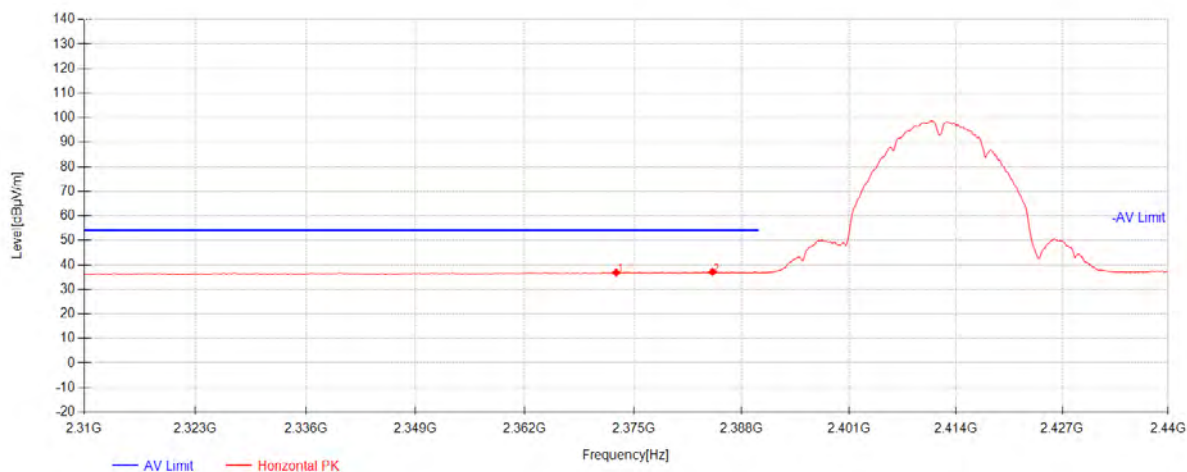
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Restricted bands around fundamental frequency

802.11b_Channel 01



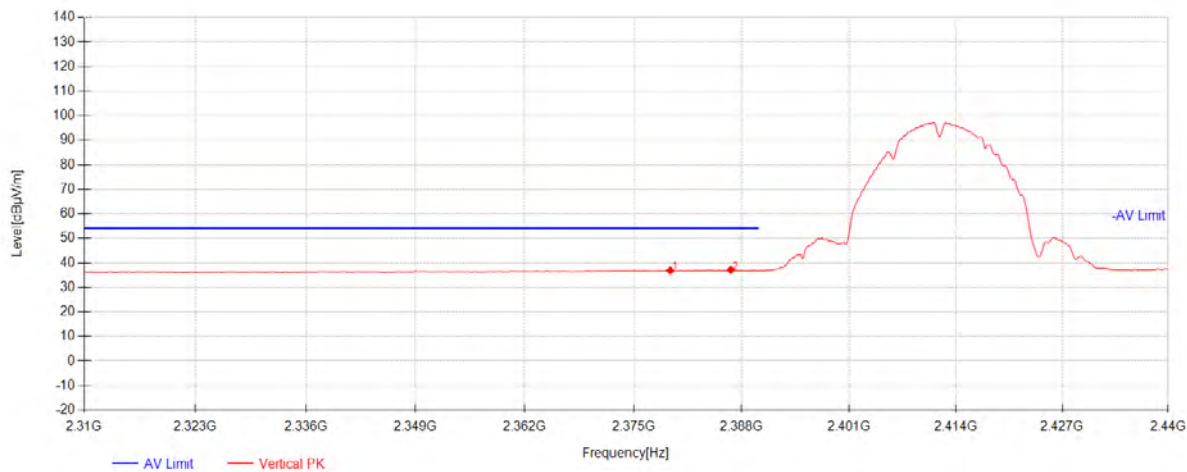
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1	2372.92	33.46	26.95	-23.57	36.83	54.00	17.17	Horizontal
2	2384.49	33.70	26.97	-23.57	37.10	54.00	16.90	Horizontal



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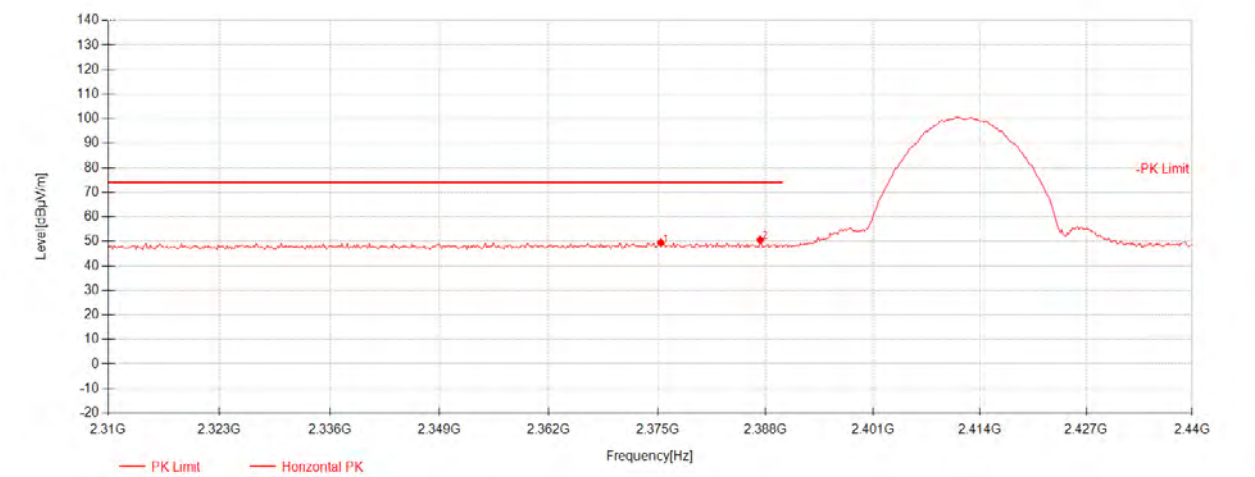
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1	2379.42	33.52	26.96	-23.57	36.91	54.00	17.09	Vertical
2	2386.7	33.70	26.97	-23.57	37.10	54.00	16.90	Vertical



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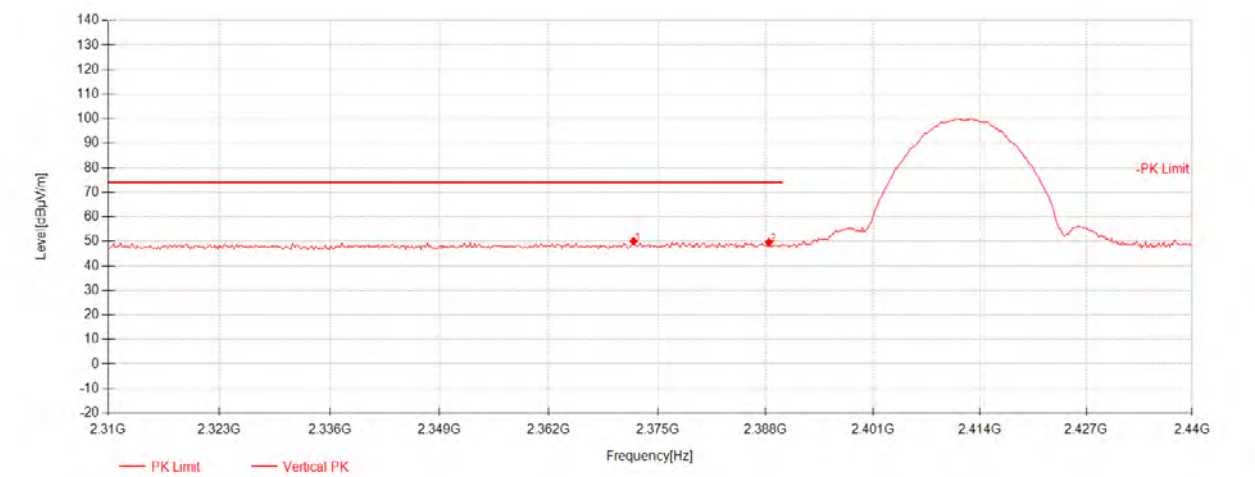
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1	2375.39	46.08	26.95	-23.57	49.46	74.00	24.54	Horizontal
2	2387.35	47.14	26.97	-23.57	50.54	74.00	23.46	Horizontal



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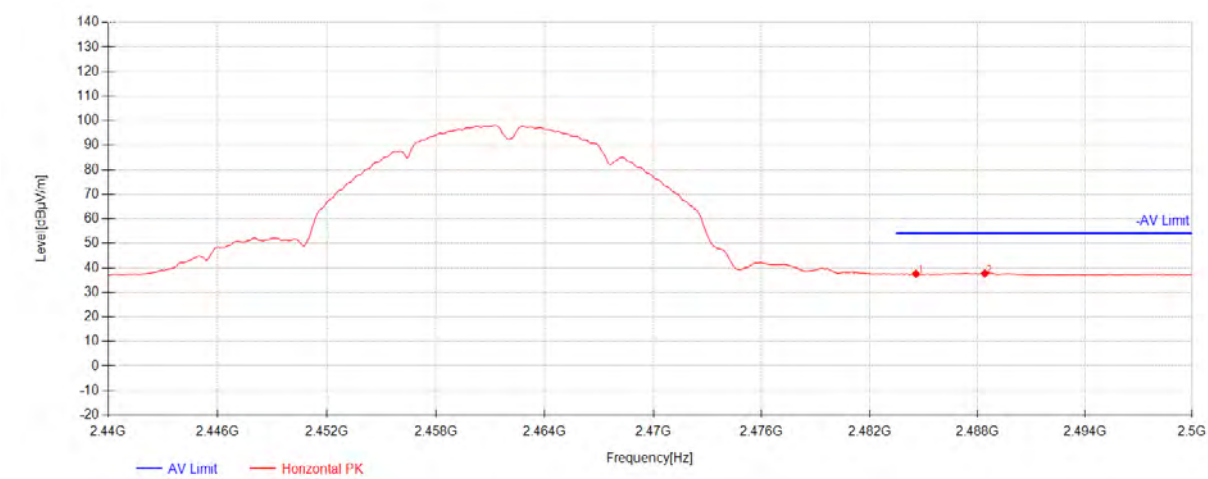
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1	2372.14	46.71	26.94	-23.57	50.08	74.00	23.92	Vertical
2	2388.39	46.16	26.98	-23.57	49.57	74.00	24.43	Vertical



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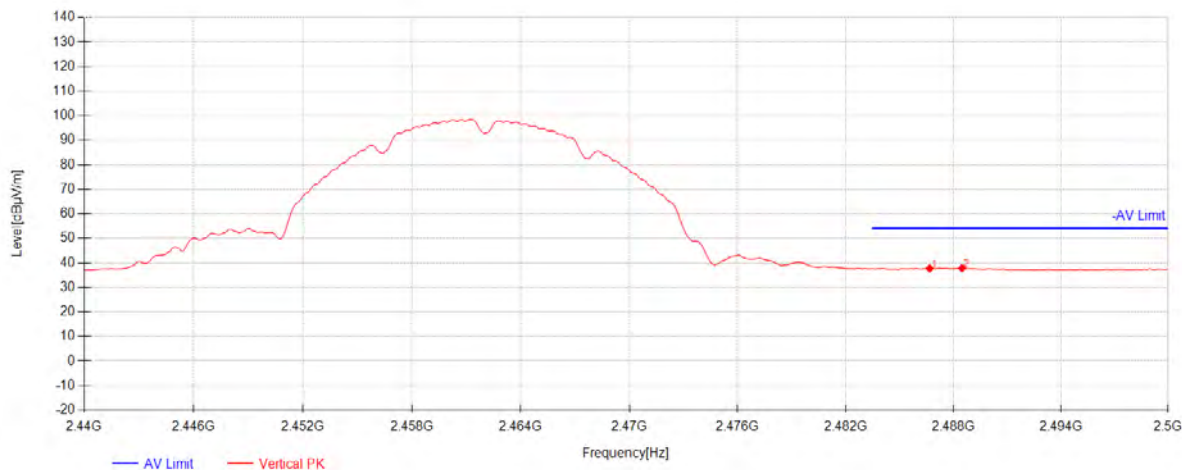
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1	2484.58	33.97	27.17	-23.54	37.59	54.00	16.41	Horizontal
2	2488.42	34.12	27.18	-23.54	37.75	54.00	16.25	Horizontal



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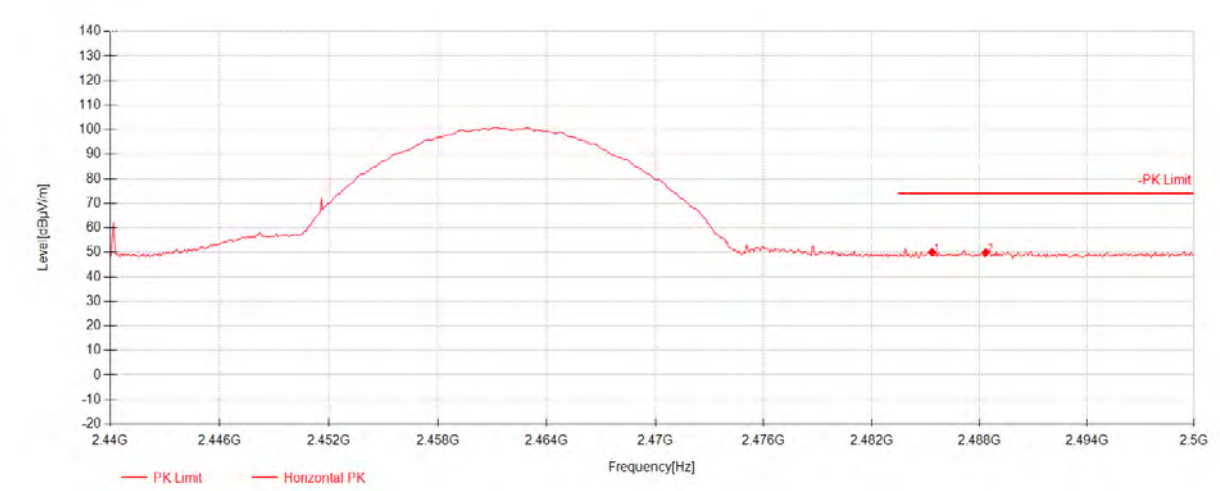
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1	2486.68	34.13	27.17	-23.54	37.76	54.00	16.24	Vertical
2	2488.48	34.25	27.18	-23.54	37.88	54.00	16.12	Vertical



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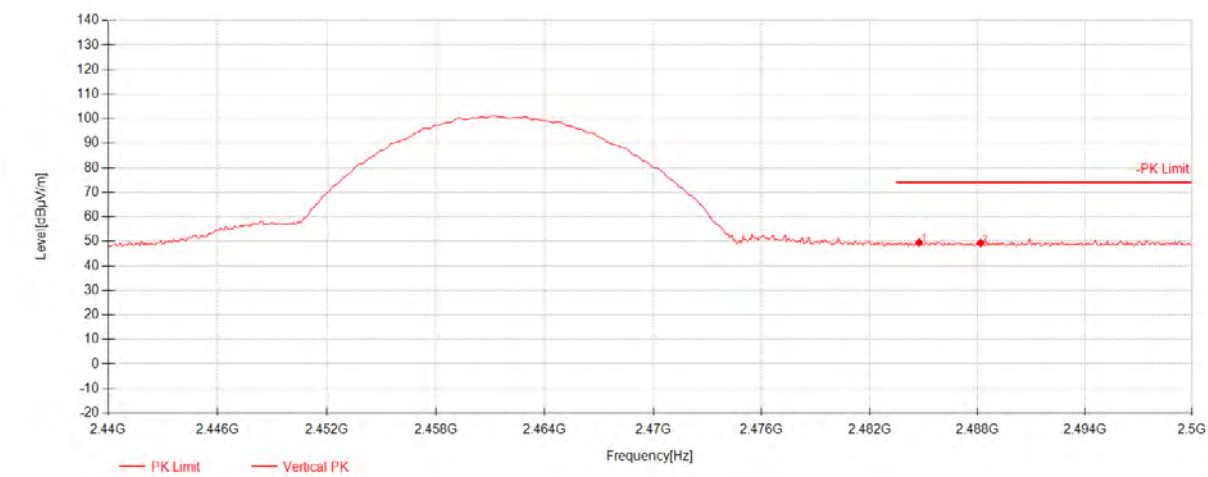
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1	2485.36	46.47	27.17	-23.54	50.10	74.00	23.90	Horizontal
2	2488.36	46.30	27.18	-23.54	49.93	74.00	24.07	Horizontal



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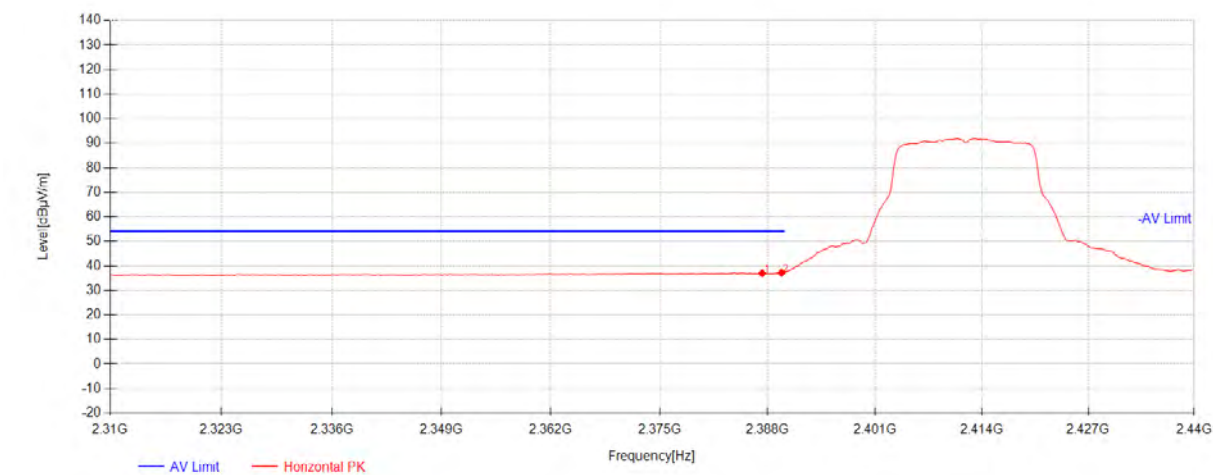
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1	2484.76	45.92	27.17	-23.54	49.54	74.00	24.46	Vertical
2	2488.18	45.72	27.18	-23.54	49.35	74.00	24.65	Vertical



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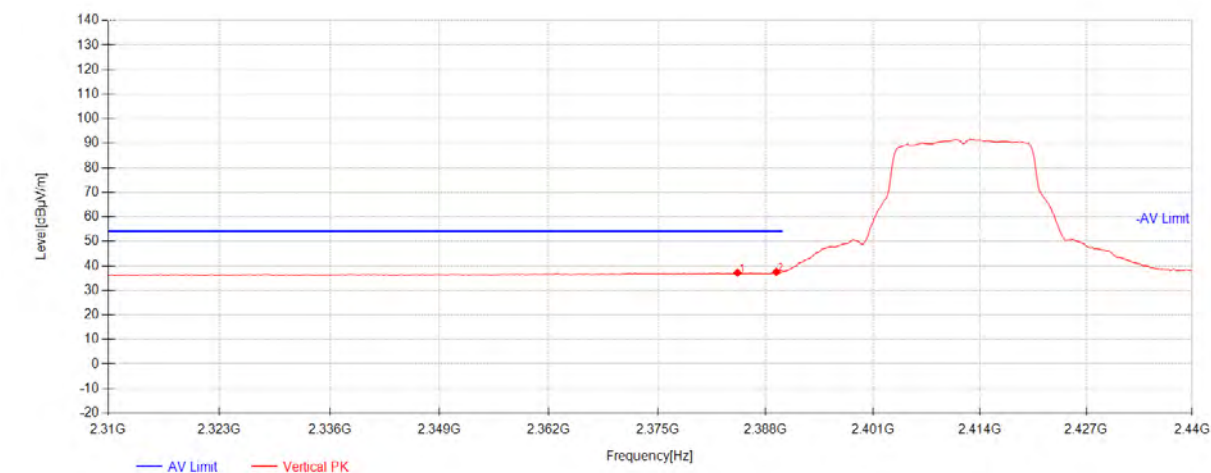
Final Data List								
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1	2387.35	33.58	26.97	-23.57	36.98	54.00	17.02	Horizontal
2	2389.69	33.77	26.98	-23.57	37.18	54.00	16.82	Horizontal



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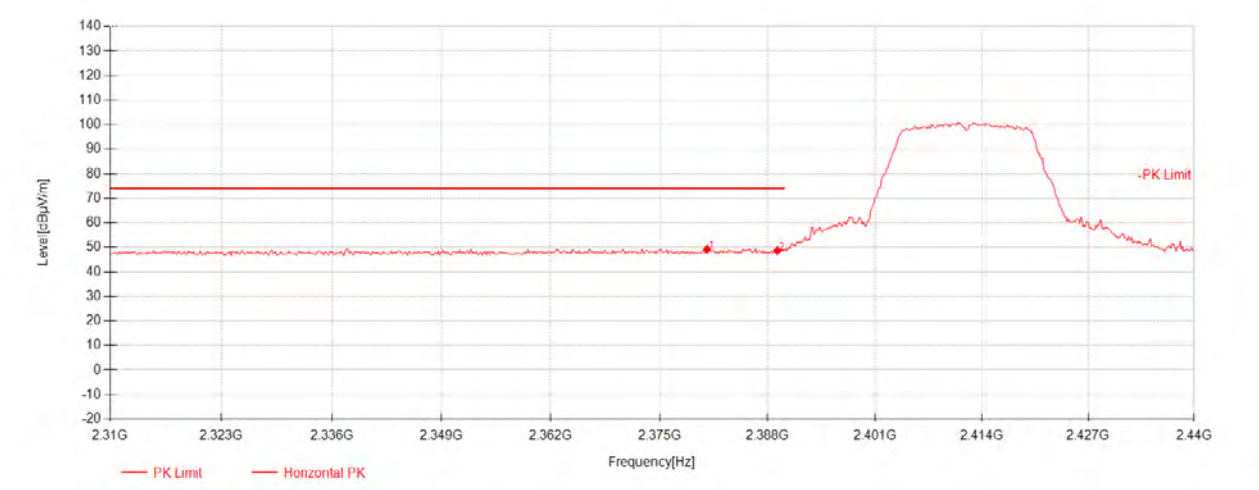
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1	2384.62	33.78	26.97	-23.57	37.18	54.00	16.82	Vertical
2	2389.3	34.13	26.98	-23.57	37.54	54.00	16.46	Vertical



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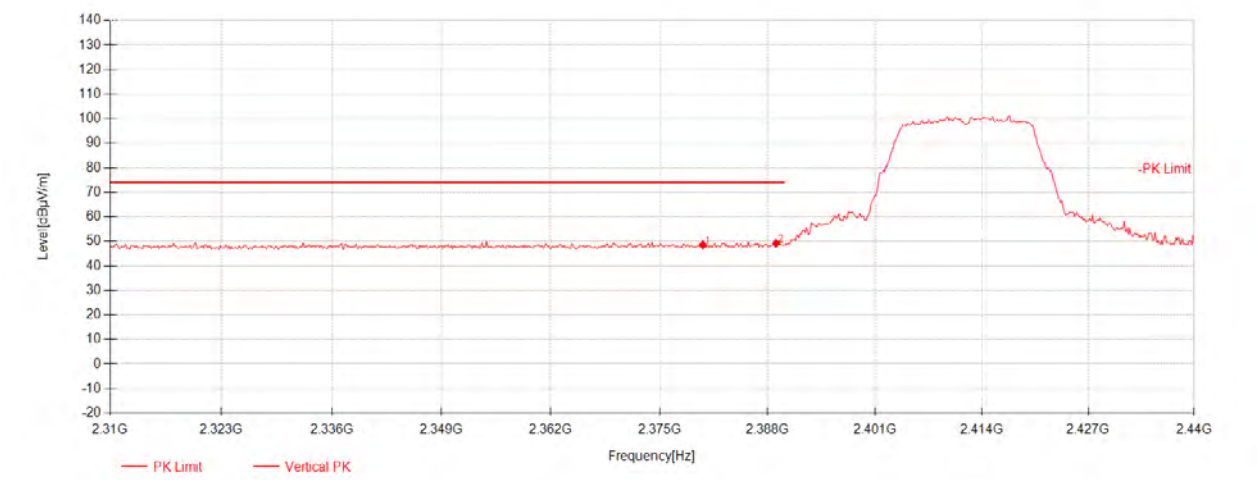
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1	2380.72	45.86	26.96	-23.57	49.25	74.00	24.75	Horizontal
2	2389.17	45.25	26.98	-23.57	48.66	74.00	25.34	Horizontal



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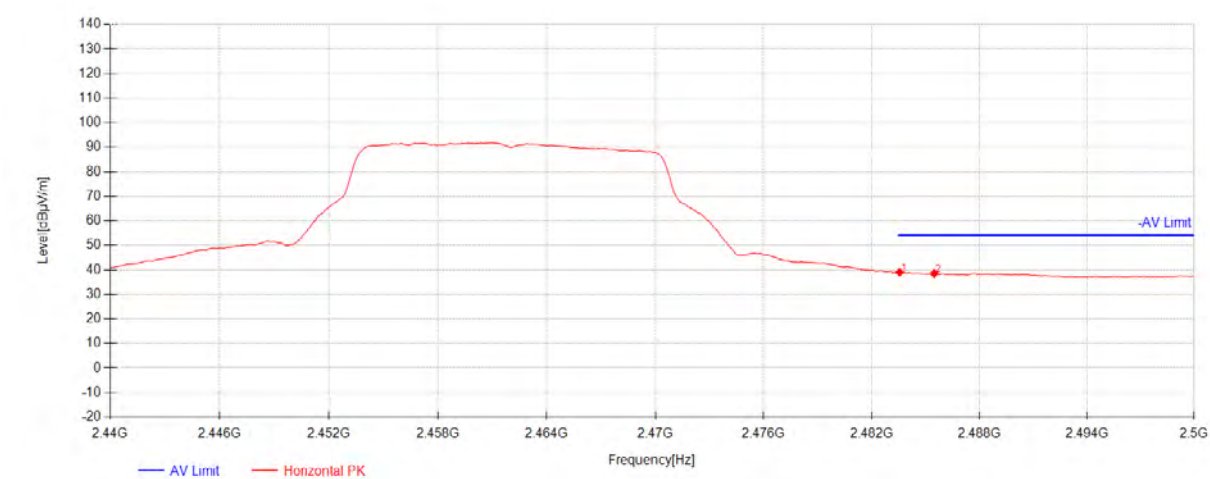
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1	2380.2	45.19	26.96	-23.57	48.58	74.00	25.42	Vertical
2	2389.04	45.82	26.98	-23.57	49.23	74.00	24.77	Vertical



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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2483.56	35.42	27.17	-23.54	39.04	54.00	14.96	Horizontal
2	2485.48	34.91	27.17	-23.54	38.54	54.00	15.46	Horizontal



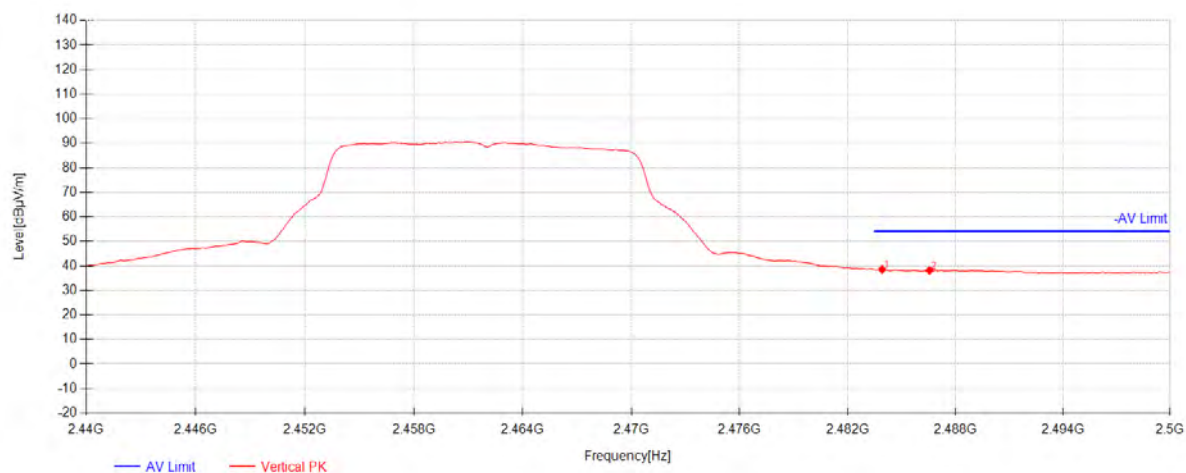
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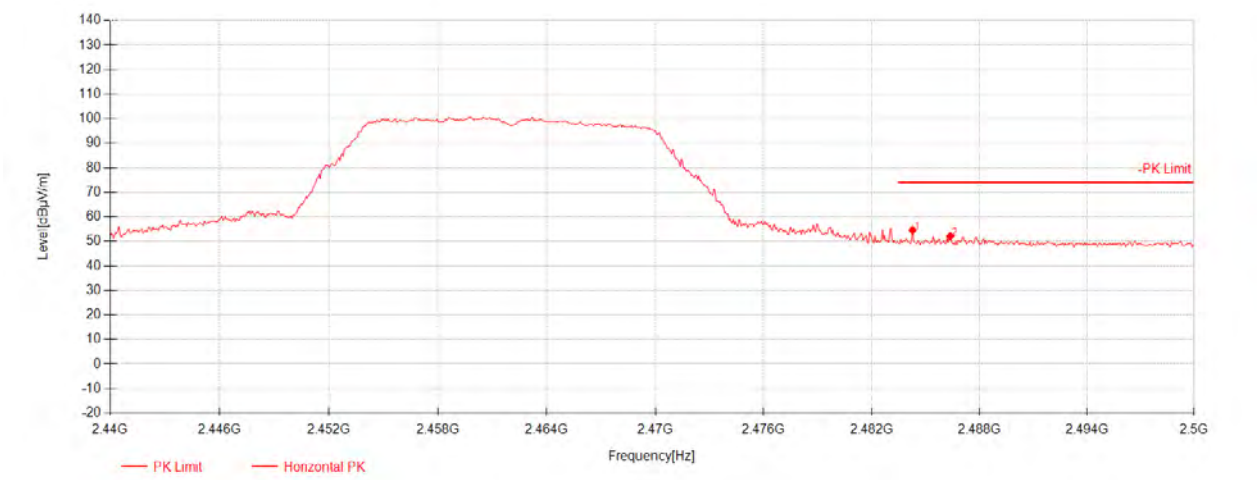
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1	2483.92	34.95	27.17	-23.54	38.57	54.00	15.43	Vertical
2	2486.56	34.55	27.17	-23.54	38.18	54.00	15.82	Vertical



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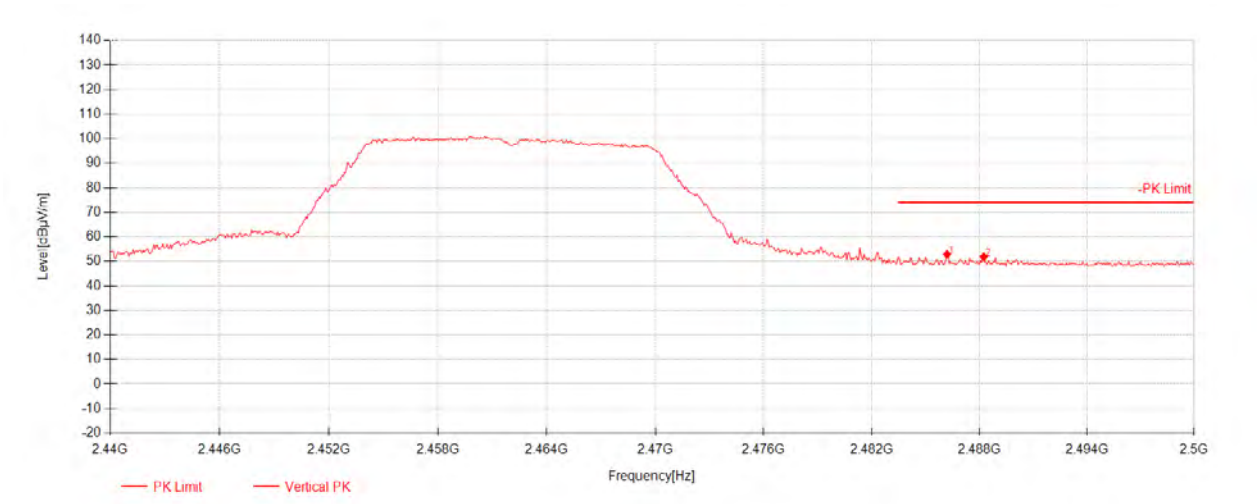
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1	2484.28	50.89	27.17	-23.54	54.51	74.00	19.49	Horizontal
2	2486.38	48.44	27.17	-23.54	52.07	74.00	21.93	Horizontal



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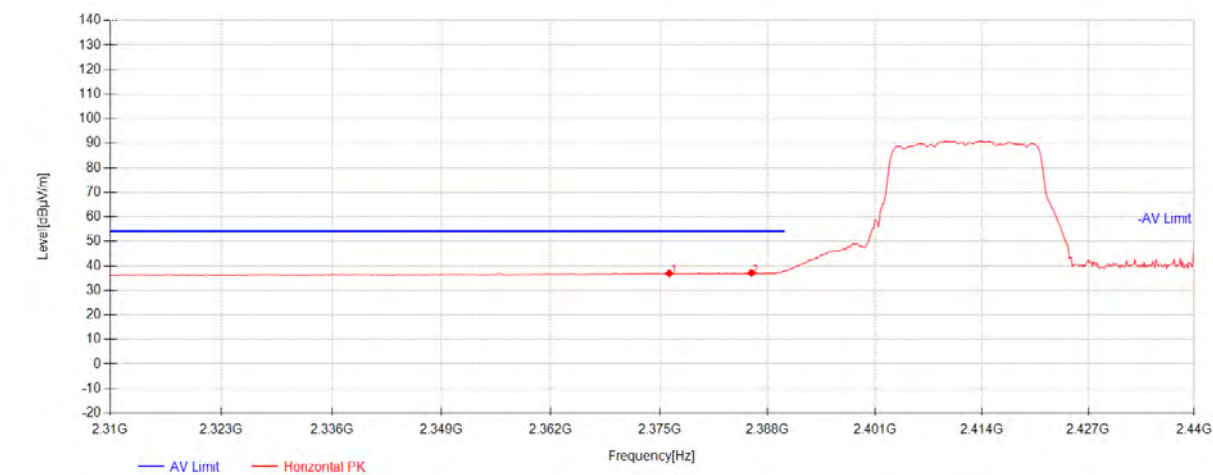
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1	2486.2	49.19	27.17	-23.54	52.82	74.00	21.18	Vertical
2	2488.24	48.16	27.18	-23.54	51.79	74.00	22.21	Vertical



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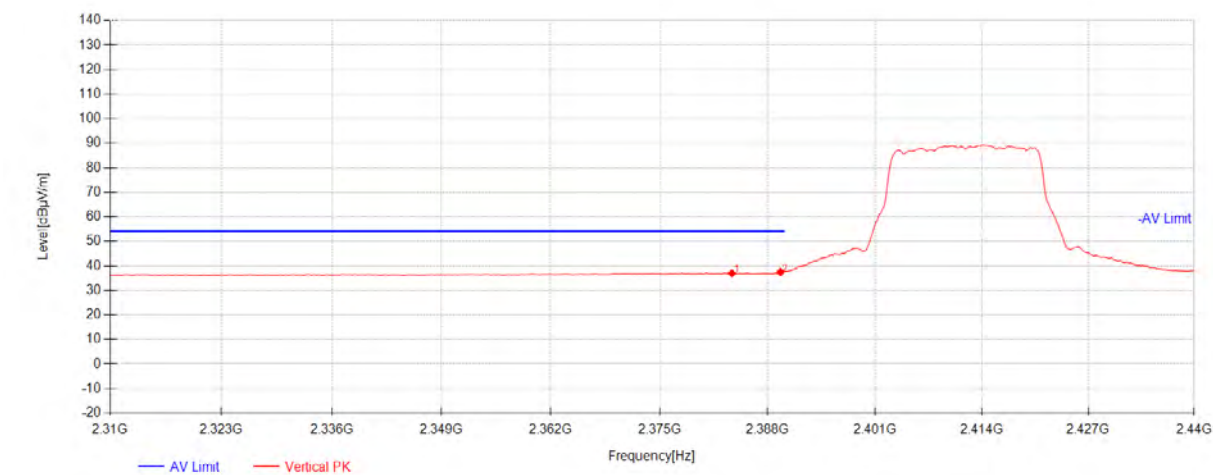
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1	2376.17	33.55	26.95	-23.57	36.93	54.00	17.07	Horizontal
2	2386.05	33.71	26.97	-23.57	37.11	54.00	16.89	Horizontal



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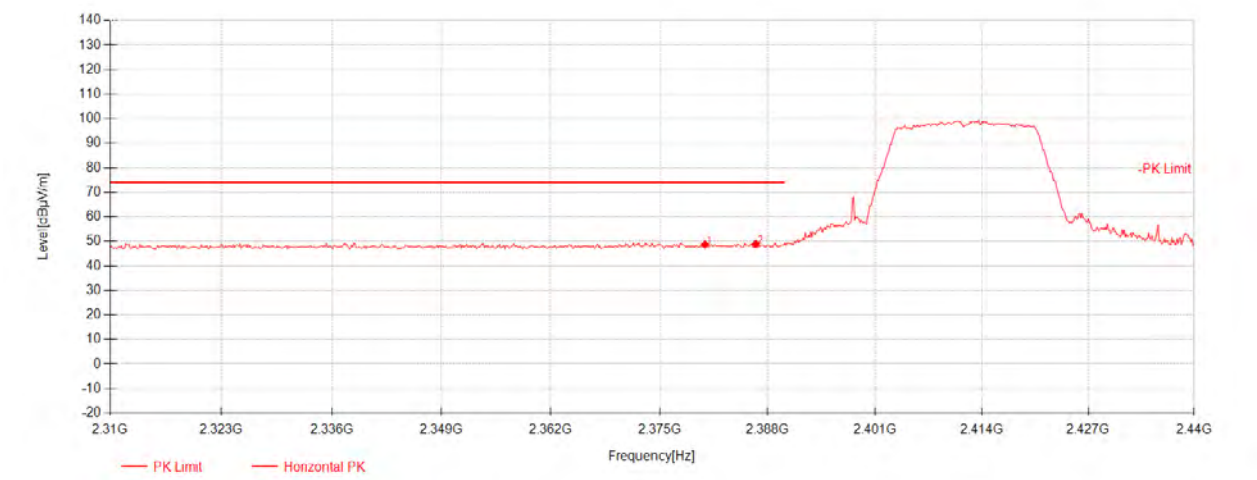
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1	2383.71	33.56	26.97	-23.57	36.96	54.00	17.04	Vertical
2	2389.56	34.05	26.98	-23.57	37.46	54.00	16.54	Vertical



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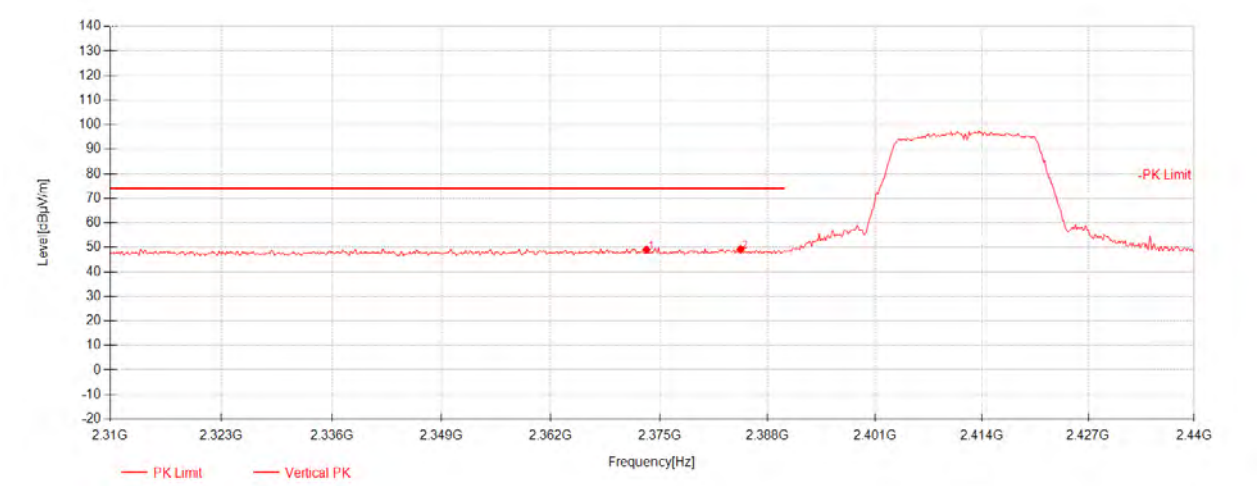
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1	2380.46	45.35	26.96	-23.57	48.74	74.00	25.26	Horizontal
2	2386.57	45.50	26.97	-23.57	48.90	74.00	25.10	Horizontal



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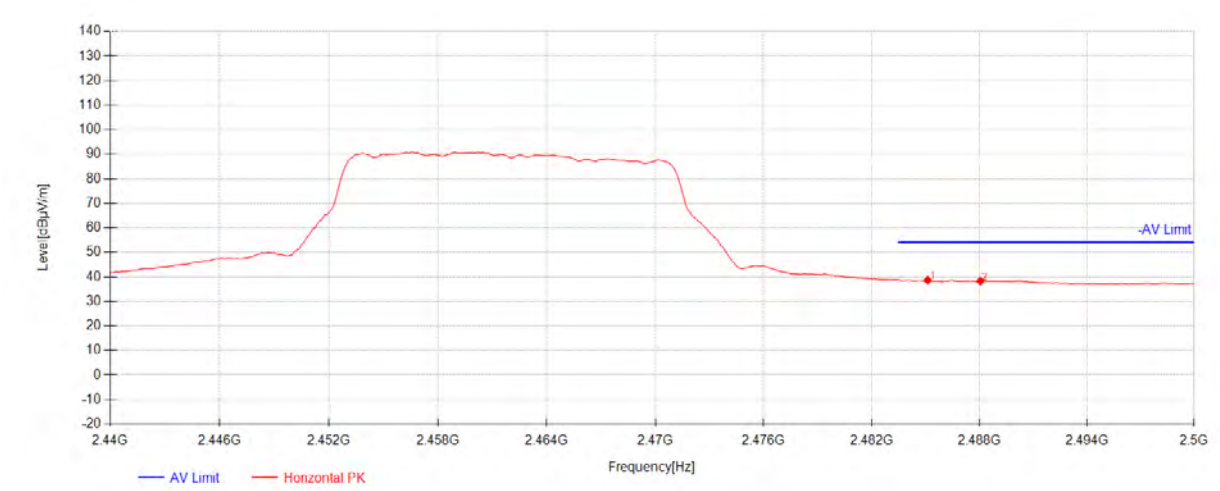
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1	2373.44	45.72	26.95	-23.57	49.09	74.00	24.91	Vertical
2	2384.75	45.86	26.97	-23.57	49.26	74.00	24.74	Vertical



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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.12	35.05	27.17	-23.54	38.68	54.00	15.32	Horizontal
2	2488.06	34.71	27.18	-23.54	38.34	54.00	15.66	Horizontal



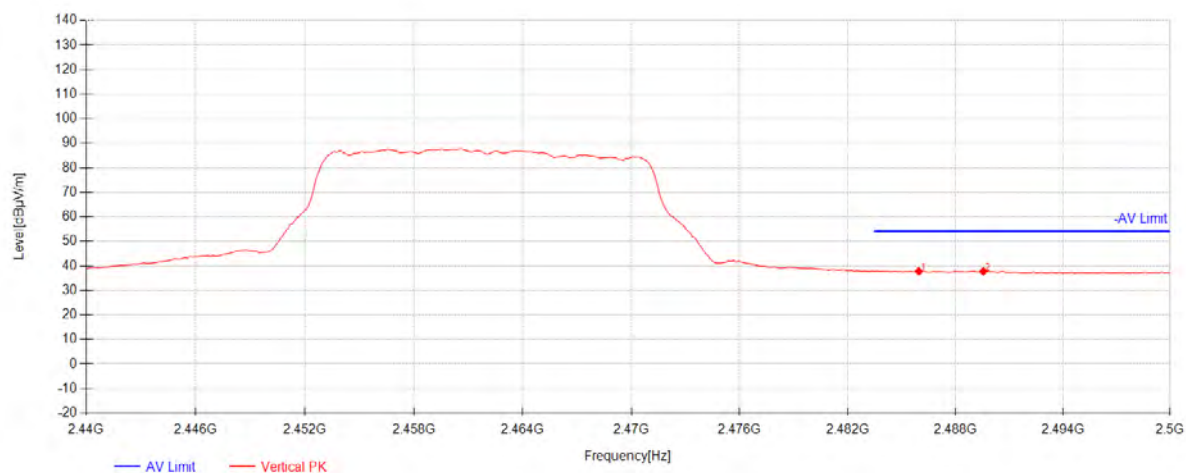
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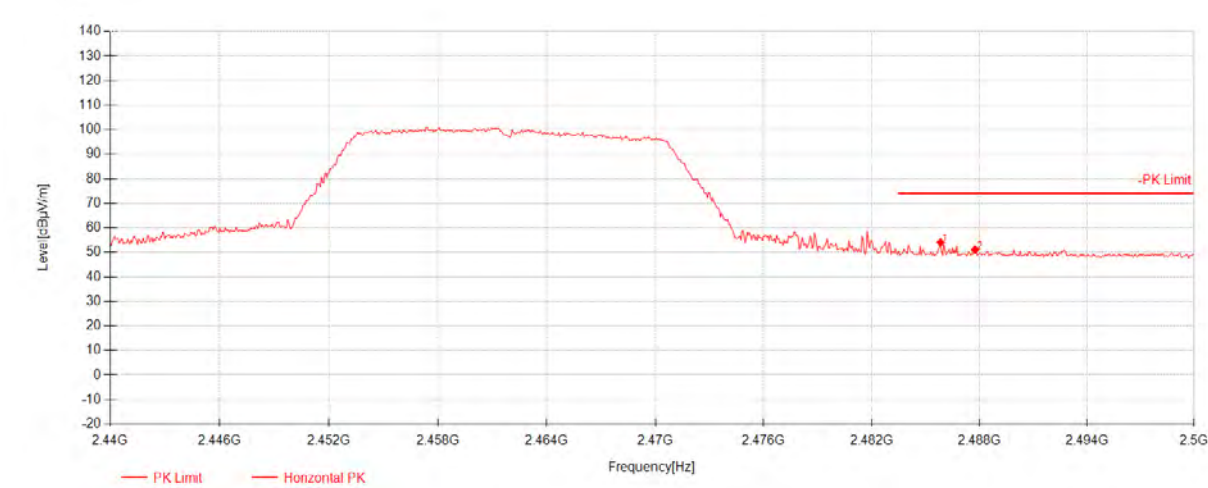
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1	2485.96	34.19	27.17	-23.54	37.82	54.00	16.18	Vertical
2	2489.56	34.16	27.18	-23.54	37.80	54.00	16.20	Vertical



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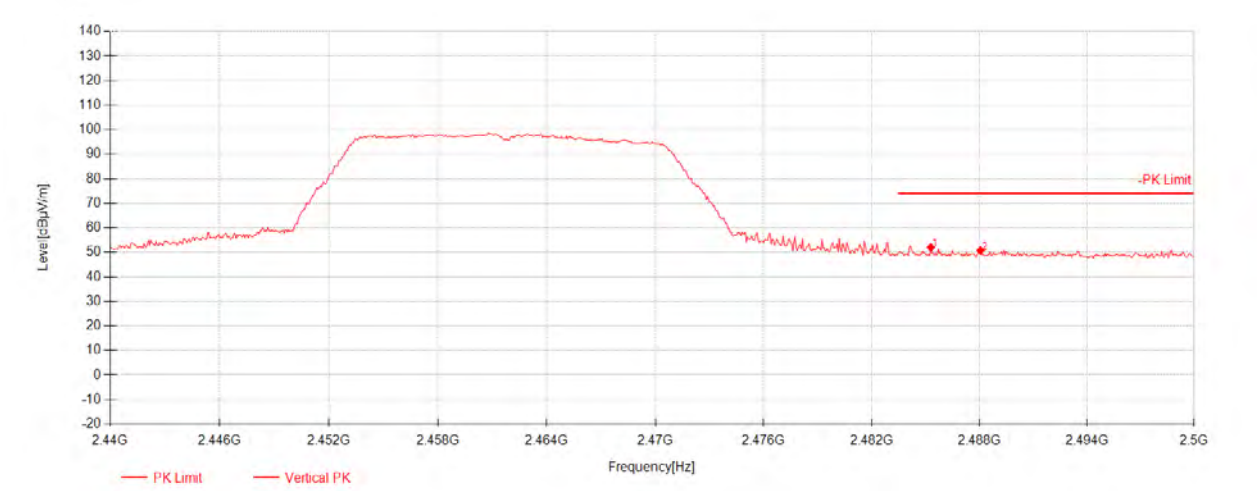
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1	2485.84	50.31	27.17	-23.54	53.94	74.00	20.06	Horizontal
2	2487.76	47.47	27.18	-23.54	51.10	74.00	22.90	Horizontal



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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2485.3	48.37	27.17	-23.54	52.00	74.00	22.00	Vertical
2	2488.06	47.09	27.18	-23.54	50.72	74.00	23.28	Vertical



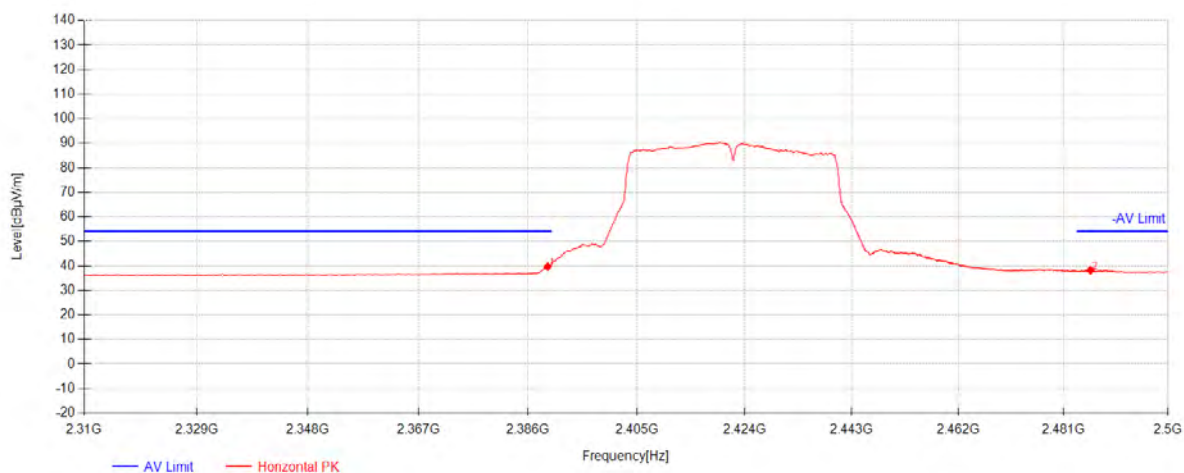
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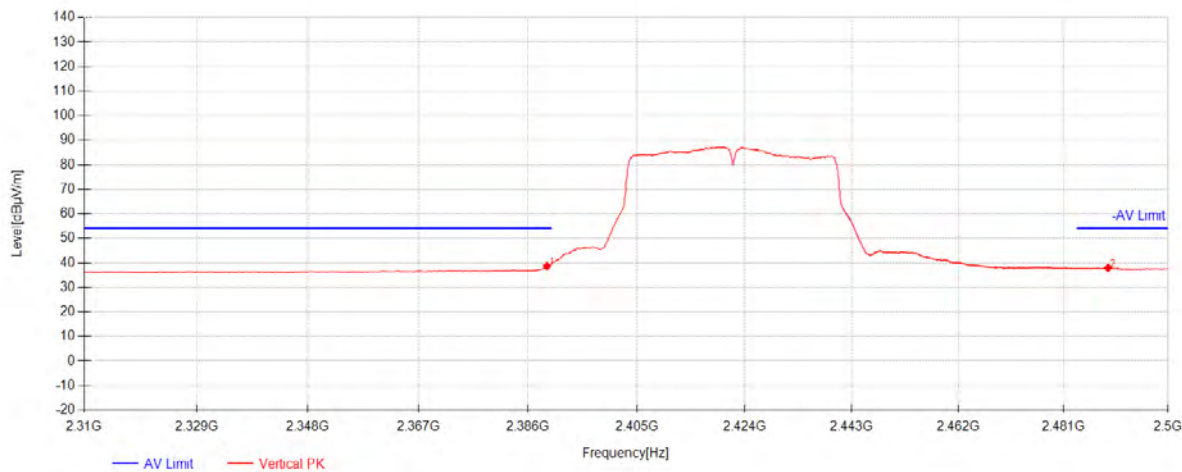
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1	2389.43	36.29	26.98	-23.57	39.70	54.00	14.30	Horizontal
2	2485.9	34.60	27.17	-23.54	38.23	54.00	15.77	Horizontal



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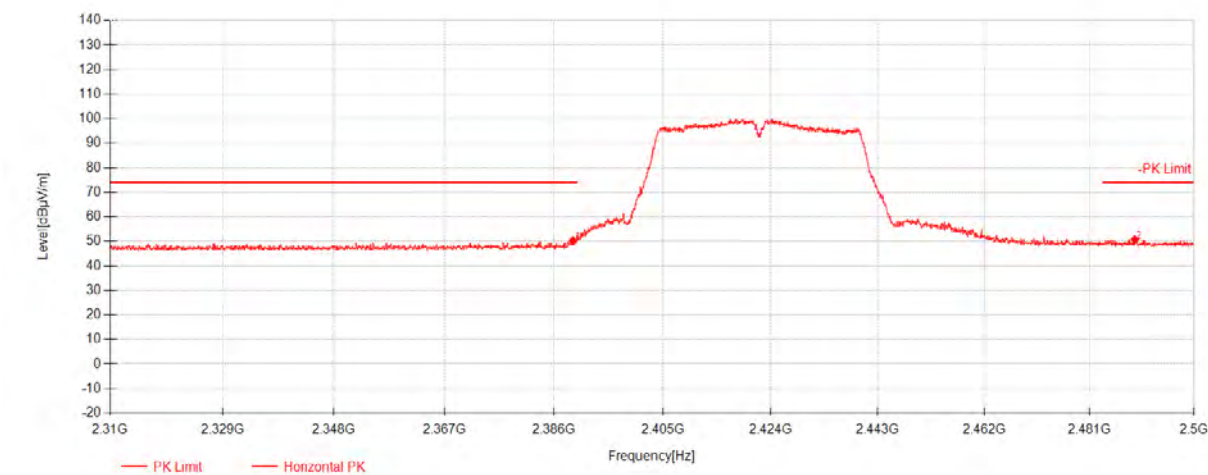
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1	2389.3	35.27	26.98	-23.57	38.68	54.00	15.32	Vertical
2	2489.08	34.36	27.18	-23.54	37.99	54.00	16.01	Vertical



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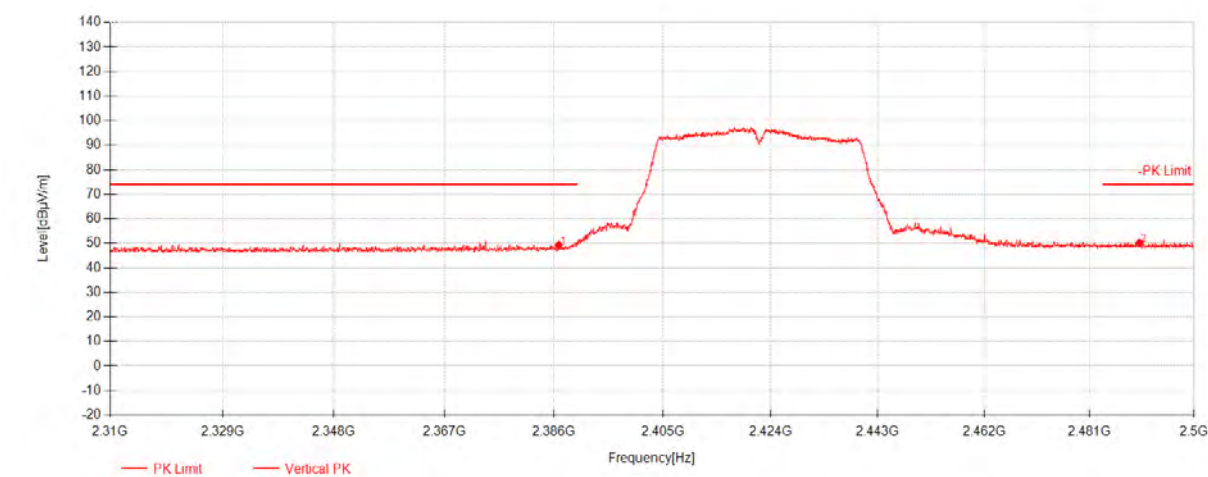
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1	2389.3	46.90	26.98	-23.57	50.31	74.00	23.69	Horizontal
2	2489.2	47.10	27.18	-23.54	50.74	74.00	23.26	Horizontal



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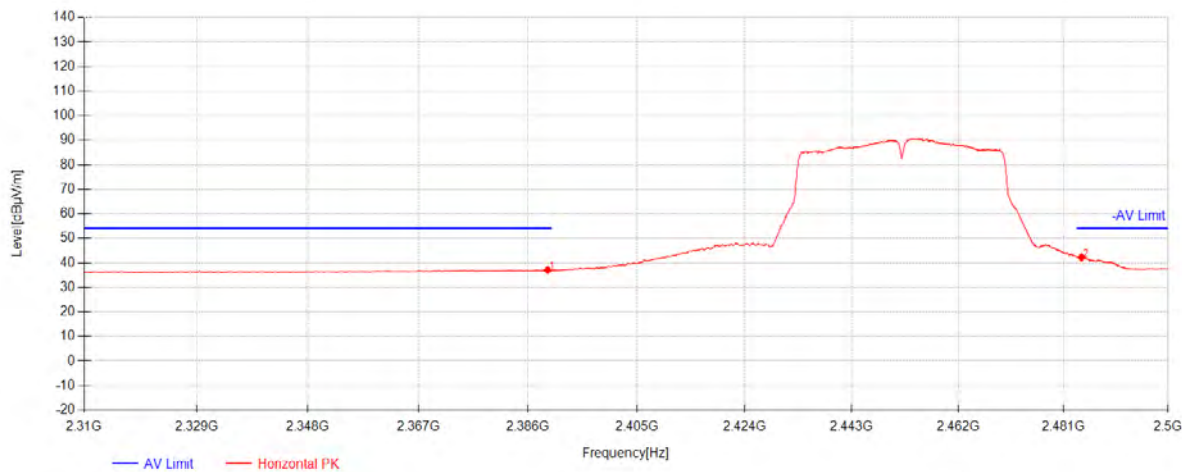
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1	2386.83	45.94	26.97	-23.57	49.34	74.00	24.66	Vertical
2	2490.04	46.56	27.18	-23.54	50.20	74.00	23.80	Vertical



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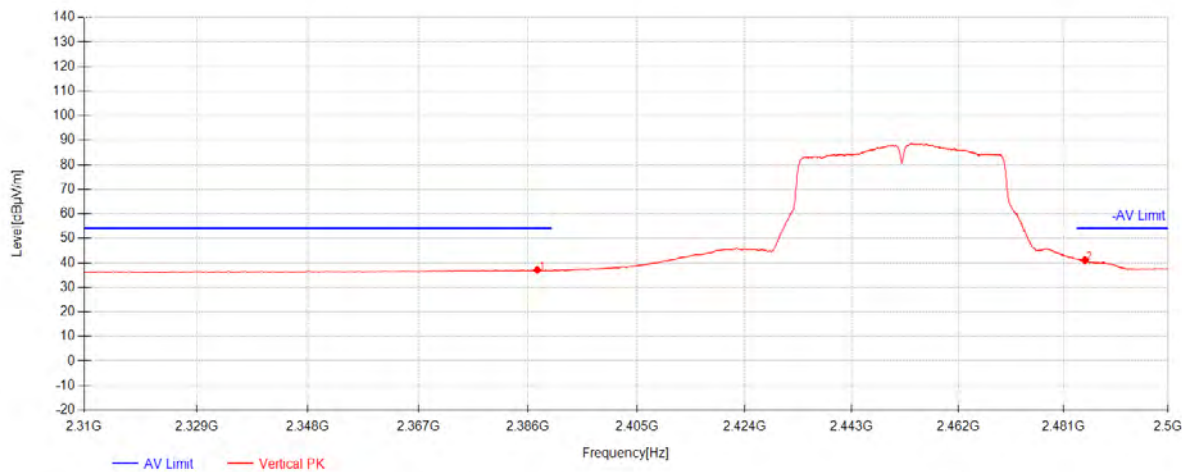
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1	2389.43	33.69	26.98	-23.57	37.10	54.00	16.90	Horizontal
2	2484.28	38.59	27.17	-23.54	42.21	54.00	11.79	Horizontal



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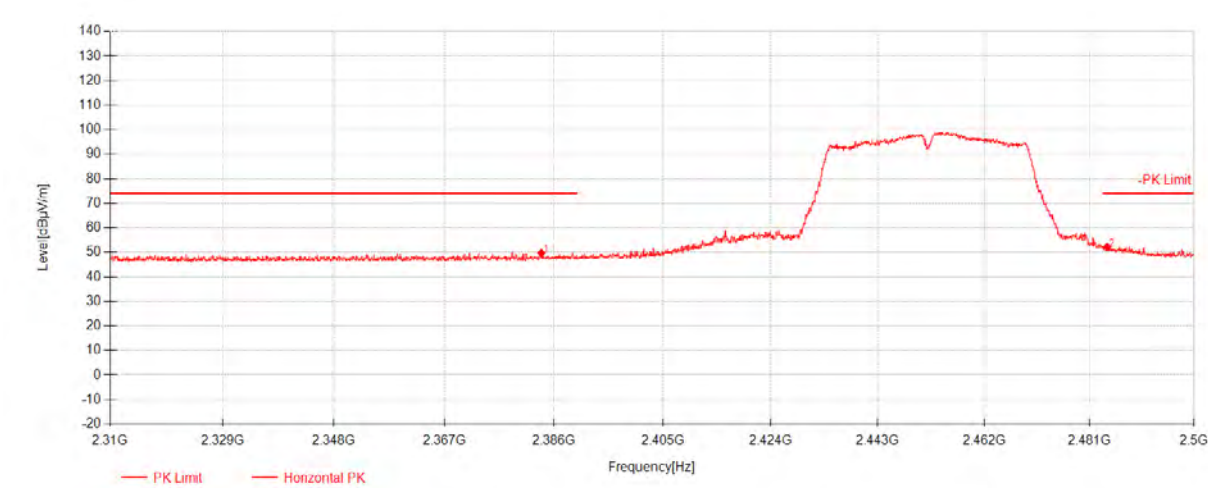
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1	2387.61	33.72	26.98	-23.57	37.12	54.00	16.88	Vertical
2	2484.88	37.44	27.17	-23.54	41.07	54.00	12.93	Vertical



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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2383.7967	46.30	26.97	-23.57	49.70	74.00	24.30	Horizontal
2	2484.22	48.51	27.17	-23.54	52.13	74.00	21.87	Horizontal



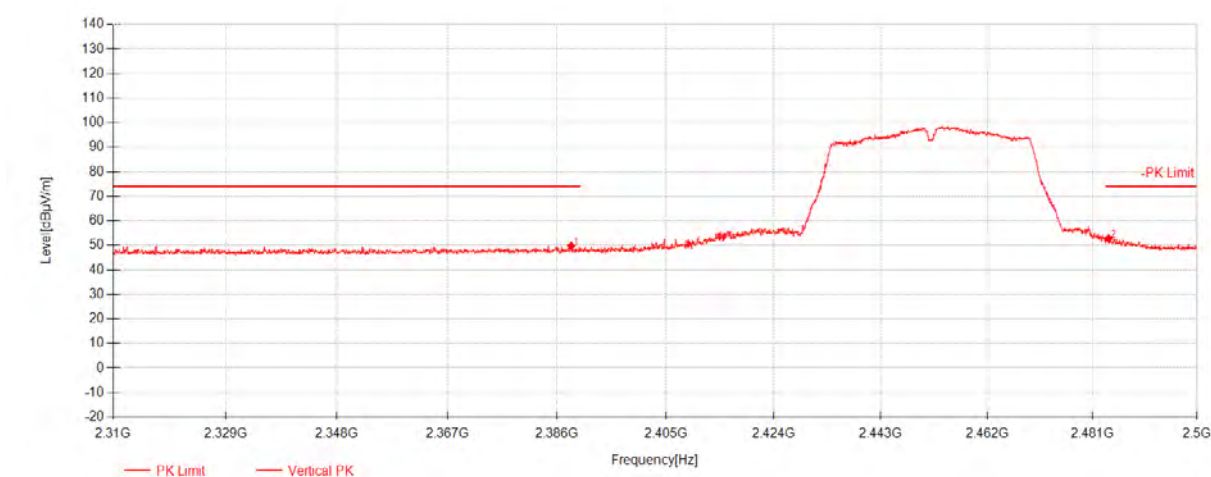
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Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	2388.4767	46.36	26.98	-23.57	49.77	74.00	24.23	Vertical
2	2483.92	49.07	27.17	-23.54	52.69	74.00	21.31	Vertical

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---