

Report No.: SEWA2208000038RG04
 Rev.: 01
 Page: 1 of 143

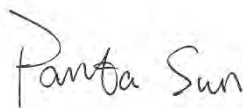
TEST REPORT

Application No.: SEWA2208000038RG
Applicant: SmartWitness USA, LLC
Address of Applicant: 1016 Lunt Avenue Schaumburg, IL 60193 United States
Manufacturer: SmartWitness USA, LLC
Address of Manufacturer: 1016 Lunt Avenue Schaumburg, IL 60193 United States
EUT Description: Dash Camera
Model No.: DC4026-NAD011
Trade Mark: Sensata
FCC ID: 2AQ2S-DC402X
Standards: FCC 47 CFR Part 2, Subpart J
 FCC 47 CFR Part 15, Subpart C
Date of Receipt: 2023/02/10
Date of Test: 2023/02/21 to 2023/03/25
Date of Issue: 2023/03/27

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

Authorized Signature:




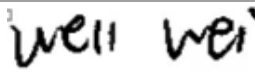
Panta Sun
 Wireless Laboratory Manager



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1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023/03/27		Original

Prepared By		 <hr/> (Ives Cheng) / Test Engineer
Checked By		 <hr/> (Well Wei) / Reviewer



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2 Test Summary

Test Item	FCC Rule No.	Test Method	Test Result	Result
Antenna Requirement	15.203/15.247(b)	--	Clause 4.1	PASS
AC Power Line Conducted Emission	15.207	ANSI C63.10 2013 Section 6.2	Clause 4.2	PASS
Duty Cycle	--	--	Clause 4.3	Reporting only
Conducted Output Power	15.247 (b)(3)	ANSI C63.10 2013 Section 11.9.1.3	Clause 4.4	PASS
DTS (6 dB) Bandwidth & 99% Occupied Bandwidth	15.247 (a)(2)	ANSI C63.10 2013 Section 11.8 Option 2 / 6.9.3	Clause 4.5	PASS
Power Spectral Density	15.247 (e)	ANSI C63.10 2013 Section 11.10.2	Clause 4.6	PASS
Band-edge for RF Conducted Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.7	PASS
RF Conducted Spurious Emissions	15.247(d)	ANSI C63.10 2013 Section 11.11	Clause 4.8	PASS
Radiated Spurious Emissions	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.9	PASS
Restricted bands around fundamental frequency (Radiated Emission)	15.247(d);15.205/15.209	ANSI C63.10 2013 Section 11.12	Clause 4.10	PASS



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3 General Information

3.1 Details of Client

Applicant:	SmartWitness USA, LLC
Address of Applicant:	1016 Lunt Avenue Schaumburg, IL 60193 United States
Manufacturer:	SmartWitness USA, LLC
Address of Manufacturer:	1016 Lunt Avenue Schaumburg, IL 60193 United States

3.2 Test Location

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

3.3 Test Facility

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

- **A2LA (Certificate No. 6336.01)**

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

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

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

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

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

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Dash Camera	
Model No.:	DC4026-NAD011	
Trade Mark:	Sensata	
Hardware Version:	V1.2	
Software Version:	SC600YNAPAR06A04_BP03.006_QDM039	
IMEI:	RF Conducted	868899060125222
	RSE & AC power line	868899060124740
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
	<input type="checkbox"/> Diversity	TXBF: 802.11n: Tx & Rx
Antenna Type:	Ceramic patch Antenna	
Antenna Gain:	2.65dBi (Ant2)	
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.	
RF Cable:	0.5dB	
Remark:	As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.	



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Operation Frequency of each channel (802.11b/g/n HT20)							
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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3.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	22~23	12
Remark: NV: Normal Voltage NT: Normal Temperature		

3.6 Description of Support Units

The EUT has been tested as an independent unit.

3.7 Worst-case configuration and mode

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

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11b	1 Mbps	/
802.11g	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/



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4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(b)
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.</p>	
<p>The antenna is Ceramic patch Antenna and no consideration of replacement. The best case gain of the antenna is 2.65dBi (Ant2). *</p> <p><i>*Note: The antenna gain are derived from the gain information report provided by the manufacturer.</i></p> <p><i>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</i></p>	



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4.2 AC Power Line Conducted Emissions

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



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



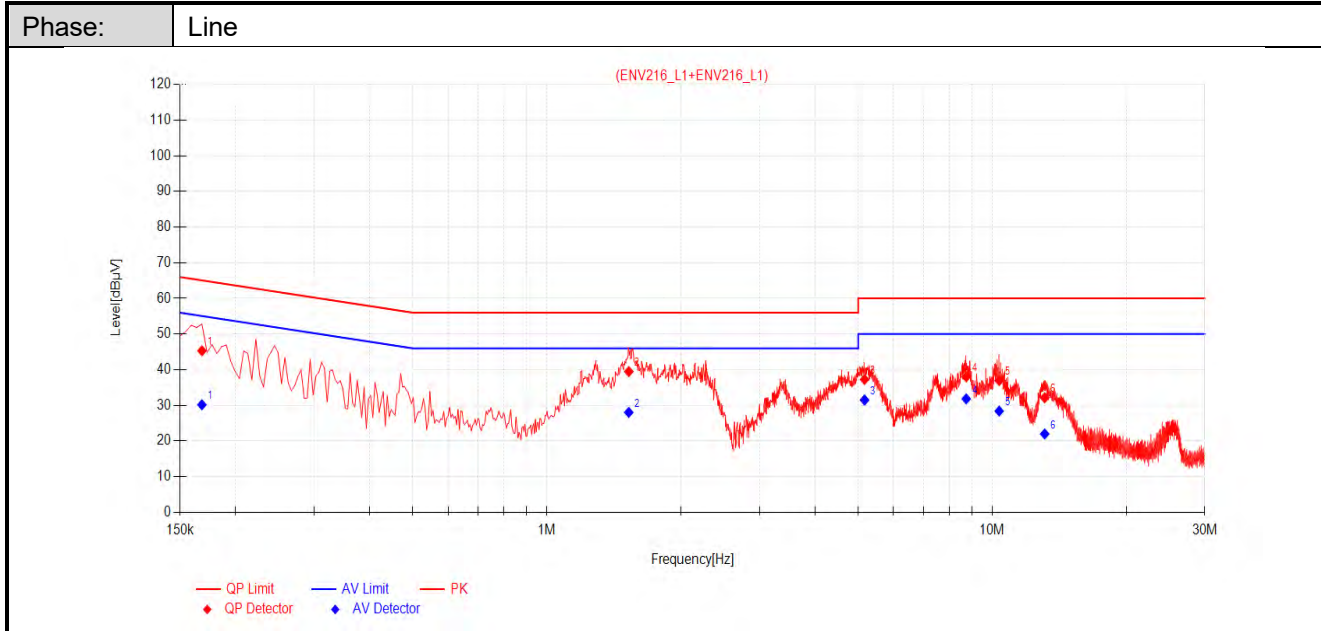
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Measurement Data

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



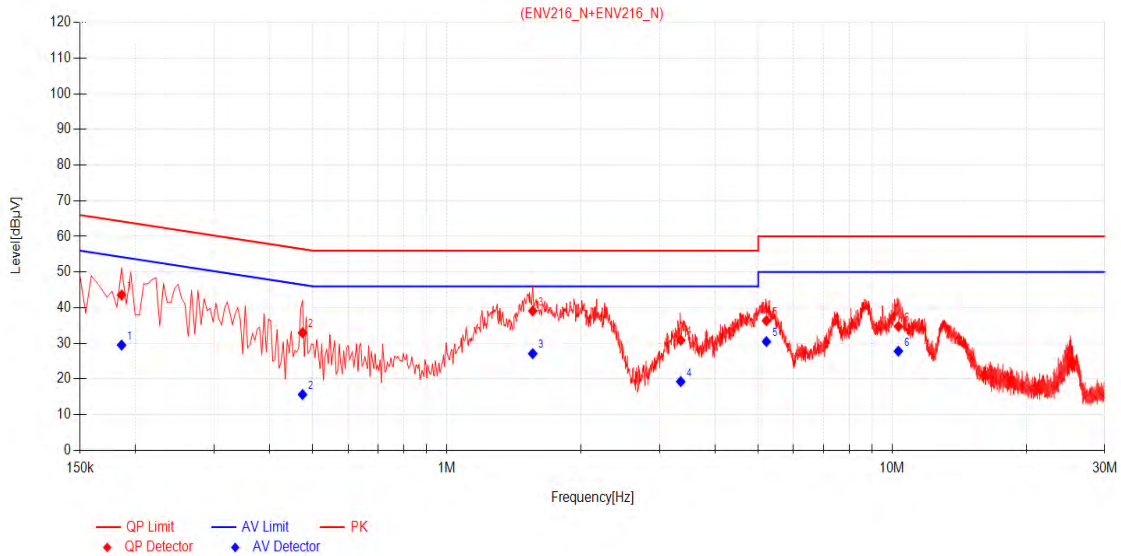
Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1680	10.71	34.59	45.30	65.06	19.76	19.46	30.17	55.06	24.89	PASS
2	1.5270	10.78	28.70	39.48	56.00	16.52	17.24	28.02	46.00	17.98	PASS
3	5.1675	10.65	26.59	37.24	60.00	22.76	20.85	31.50	50.00	18.50	PASS
4	8.7405	10.66	27.34	38.00	60.00	22.00	21.16	31.82	50.00	18.18	PASS
5	10.3650	10.63	26.30	36.93	60.00	23.07	17.78	28.41	50.00	21.59	PASS
6	13.1145	10.56	21.59	32.15	60.00	27.85	11.42	21.98	50.00	28.02	PASS

Remark:

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



Phase: Neutral



Data List											
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1860	10.68	32.88	43.56	64.21	20.65	18.83	29.51	54.21	24.70	PASS
2	0.4740	10.81	22.16	32.97	56.44	23.47	4.84	15.65	46.44	30.79	PASS
3	1.5585	10.77	28.32	39.09	56.00	16.91	16.34	27.11	46.00	18.89	PASS
4	3.3495	10.64	20.25	30.89	56.00	25.11	8.63	19.27	46.00	26.73	PASS
5	5.2170	10.63	25.72	36.35	60.00	23.65	19.85	30.48	50.00	19.52	PASS
6	10.3245	10.66	24.10	34.76	60.00	25.24	17.16	27.82	50.00	22.18	PASS

Remark:

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



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4.3 Duty Cycle

The detailed test data see: **Appendix**



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4.4 Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 :2013 Section11.9.1.3
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: Appendix	



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

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



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4.6 Power Spectral Density

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



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4.7 Band-edge for RF Conducted Emissions

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



4.8 RF Conducted Spurious Emissions

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



4.9 Radiated Spurious Emissions

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



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Test Setup:

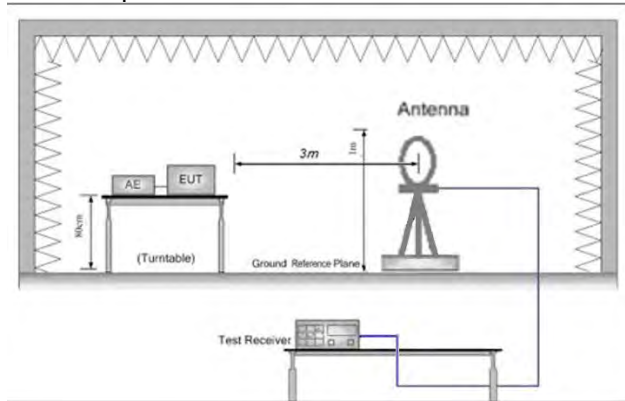


Figure 1. Below 30MHz

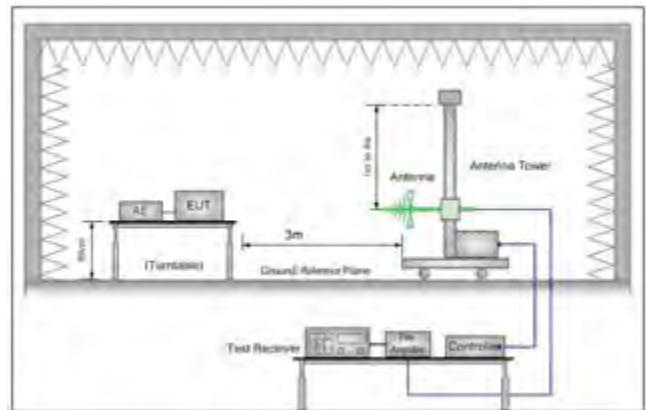


Figure 2. 30MHz to 1GHz

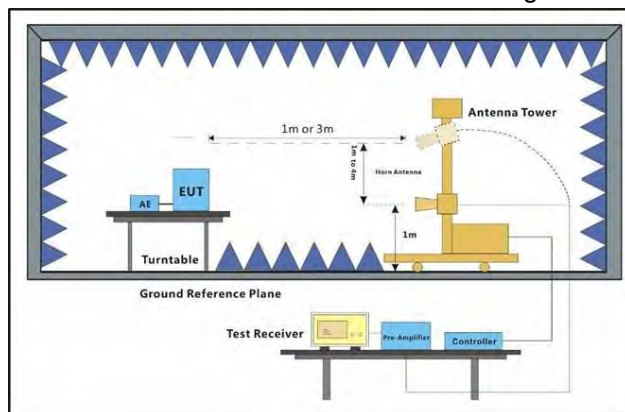


Figure 3. Above 1 GHz

Test Procedure:

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



	<p>maximum reading.</p> <p>f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>g. Test the EUT in the lowest channel, the middle channel ,the Highest channel.</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> <p>j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported</p> <p>k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.</p> <p>l. At a measurement distance of 1 meter the limit line was increased by $20 \cdot \text{LOG}(3/1) = 9.54 \text{ dB}$.</p>
Test Configuration:	<p>Measurements below 30MHz</p> <ul style="list-style-type: none"> • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold <p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW $\geq 3 \text{ MHz}$ • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 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.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see: Appendix	



4.10 Restricted bands around fundamental frequency

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

Test Setup:

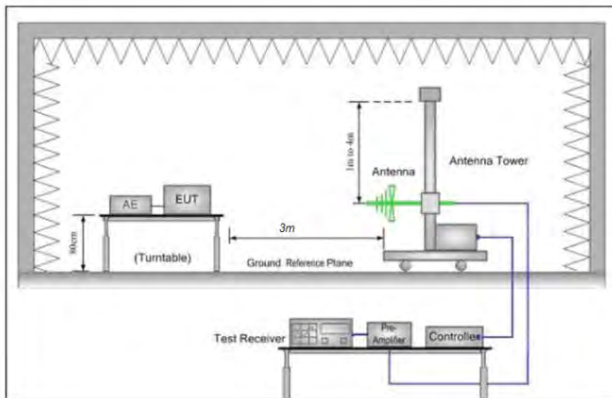


Figure 1. 30MHz to 1GHz

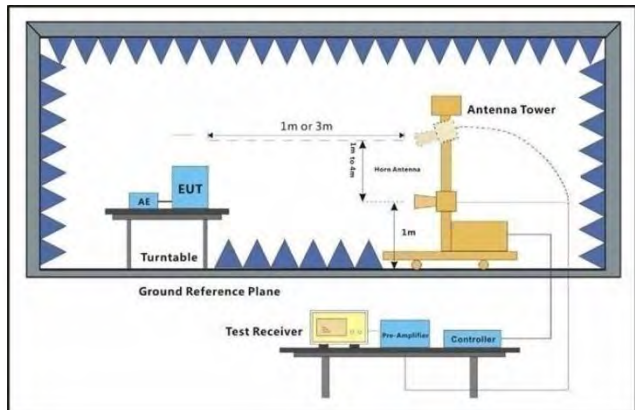


Figure 2. Above 1 GHz



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<p>Test Procedure:</p>	<ol style="list-style-type: none"> 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 X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
<p>Test Configuration:</p>	<p>Measurements Below 1000MHz</p> <ul style="list-style-type: none"> • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold <p>Peak Measurements Above 1000 MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold <p>Average Measurements Above 1000MHz</p> <ul style="list-style-type: none"> • RBW = 1 MHz • VBW = 10 Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Refer to section 3.7 for details.</p>
<p>Instruments Used:</p>	<p>Refer to section 6 for details.</p>



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Test Results:	Pass
The detailed test data see: Appendix	



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

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
7	Conduction Emission	± 2.90dB (150kHz to 30MHz)
8	Radiated Emission	± 3.13dB (9k -30MHz)
		± 4.8dB (30M -1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.80dB (Above 18GHz)

Remark:

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



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6 Equipment List

RF Test Equipment					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/05/17	2023/05/16
Measurement Software	Tonscend	JS1120-3 Test System V3.1.55	SUWI-02-09-09	NCR	NCR
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2023/02/06	2024/02/05
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2022/11/23	2023/11/22
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2022/11/23	2023/11/22
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05

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	2023/02/08	2024/02/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-06	2023/02/07	2024/02/06
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-03	2023/02/08	2024/02/07
Artificial network	ROHDE&SCHWARZ	ENV216	SUWI-01-19-04	2023/02/08	2024/02/07
Measurement Software	Tonscend	JS32-CE V4.0.0.2	SUWI-02-09-05	NCR	NCR



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RSE Test System					
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-04-02-01	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2022/05/28	2023/05/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2022/11/23	2023/11/22
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/05/16	2023/05/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/05/14	2023/05/13
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2023/02/06	2024/02/05
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2023/02/08	2024/02/07
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/06/10	2023/06/09
Measurement Software	Tonscend	JS32-RE 4.0.0.0	SUWI-02-09-04	NCR	NCR



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7 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.



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Appendix



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**DTS Bandwidth
Test Result**

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11b	Ant2	2412	7.64	2408.40	2416.04	≥0.5	PASS
		2437	7.68	2432.88	2440.56	≥0.5	PASS
		2462	7.20	2458.36	2465.56	≥0.5	PASS
11g	Ant2	2412	16.44	2403.76	2420.20	≥0.5	PASS
		2437	16.44	2428.72	2445.16	≥0.5	PASS
		2462	16.40	2453.76	2470.16	≥0.5	PASS
11n20SISO	Ant2	2412	17.64	2403.16	2420.80	≥0.5	PASS
		2437	17.64	2428.12	2445.76	≥0.5	PASS
		2462	17.00	2453.16	2470.16	≥0.5	PASS
11n40SISO	Ant2	2422	35.28	2404.32	2439.60	≥0.5	PASS
		2437	35.28	2419.32	2454.60	≥0.5	PASS
		2452	35.28	2434.32	2469.60	≥0.5	PASS

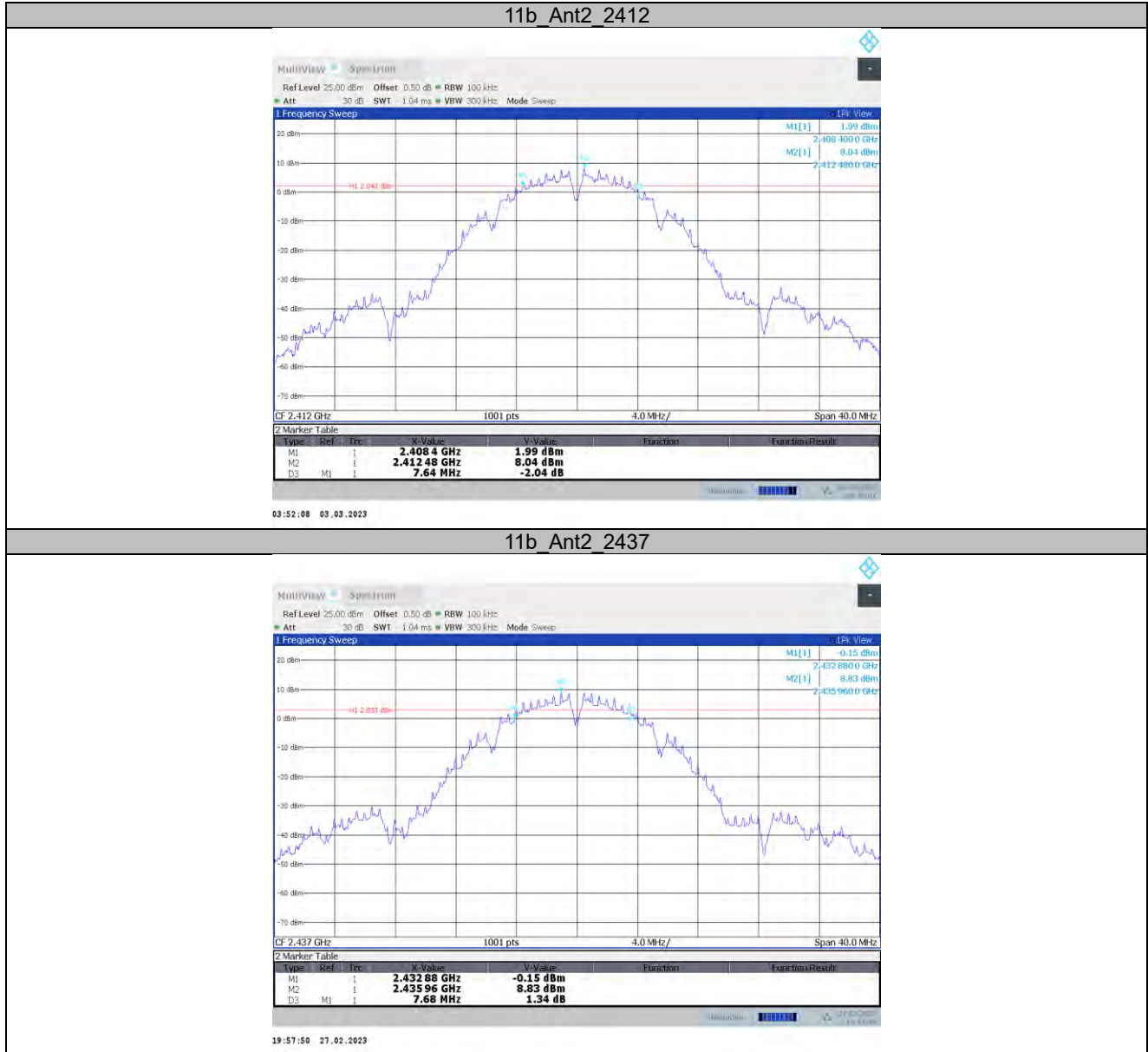


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Test Graphs

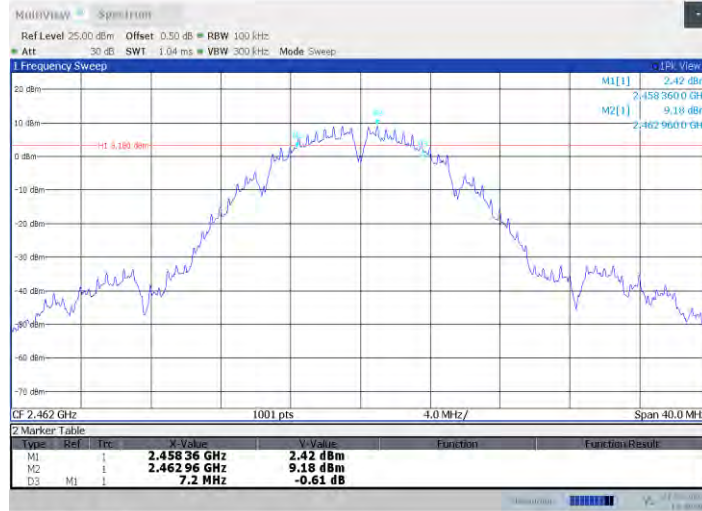


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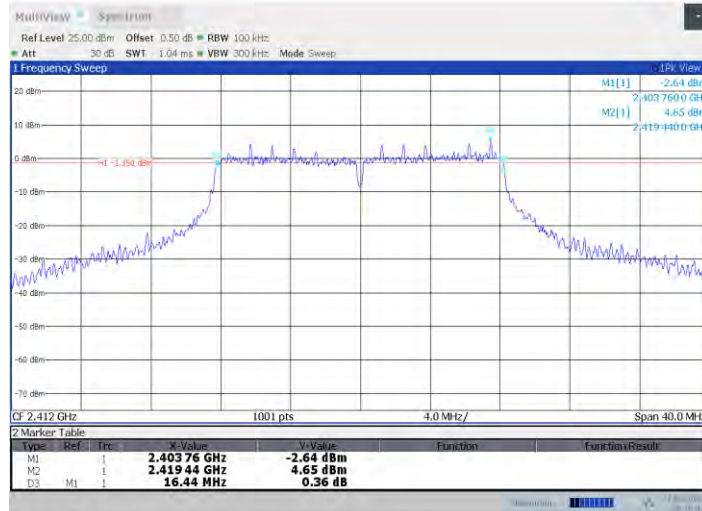
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11b Ant2 2462



19:59:29 27.02.2023

11g Ant2 2412



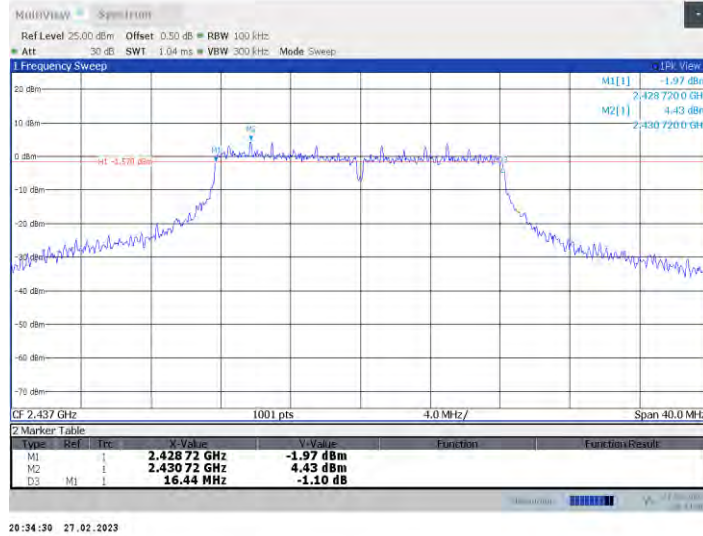
20:19:45 27.02.2023



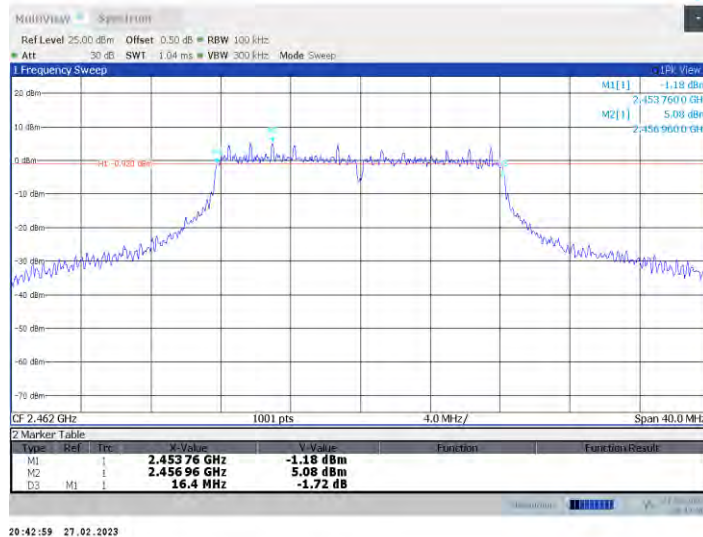
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11g Ant2 2437



11g Ant2 2462

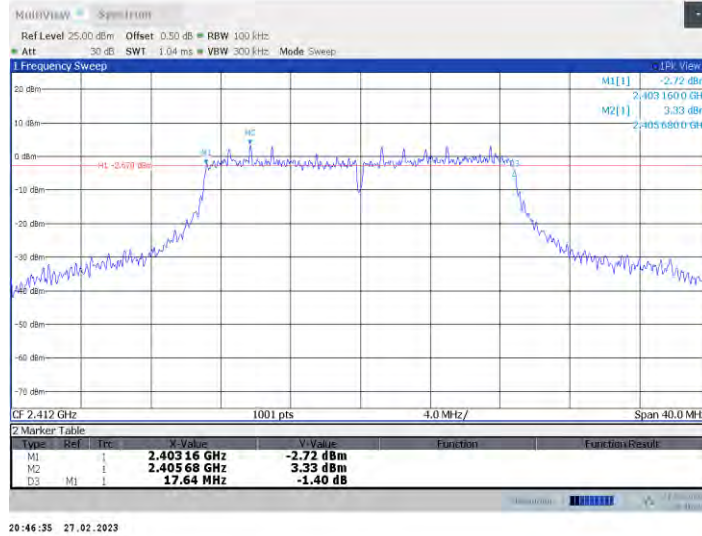


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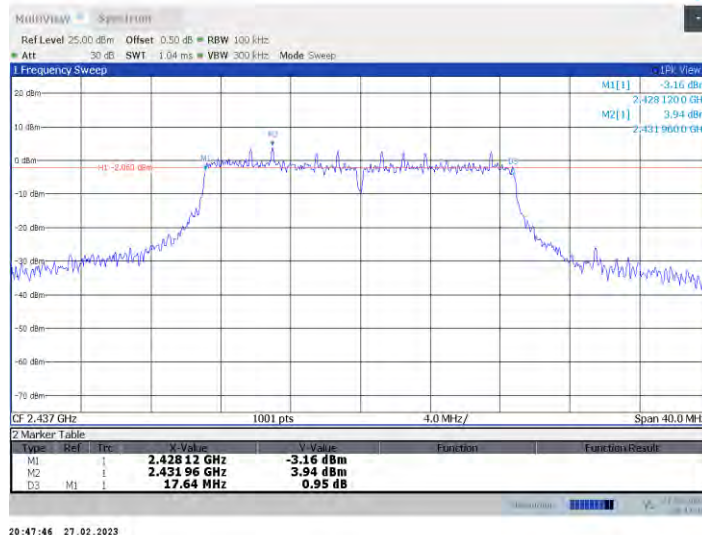
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11n20SISO_Ant2_2412



20:46:35 27.02.2023

11n20SISO_Ant2_2437



20:47:46 27.02.2023

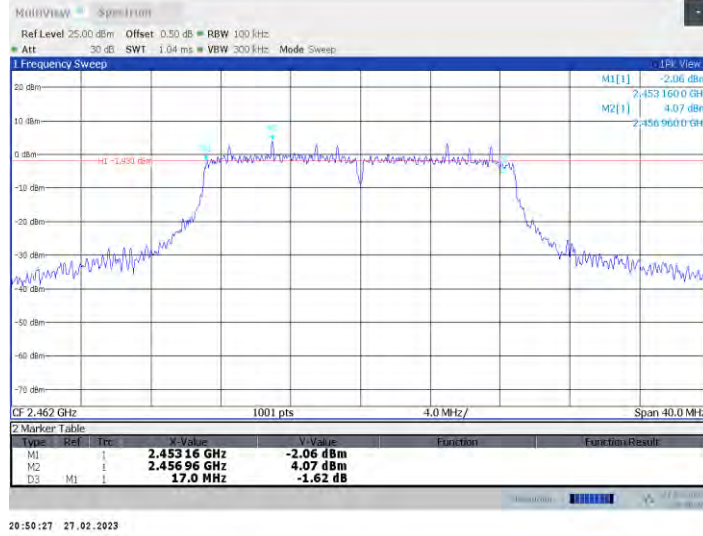


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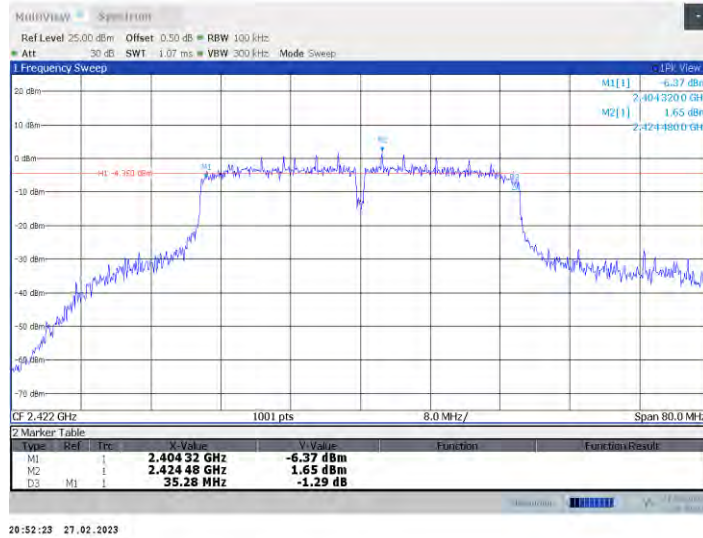
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11n20SISO_Ant2_2462



11n40SISO_Ant2_2422

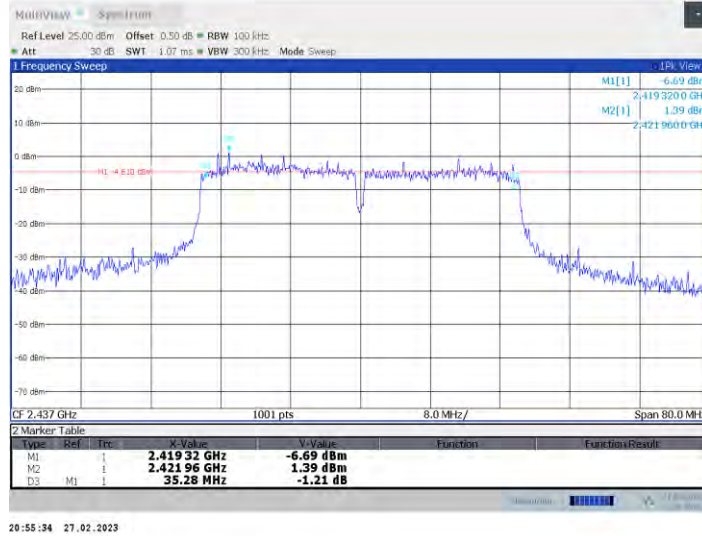


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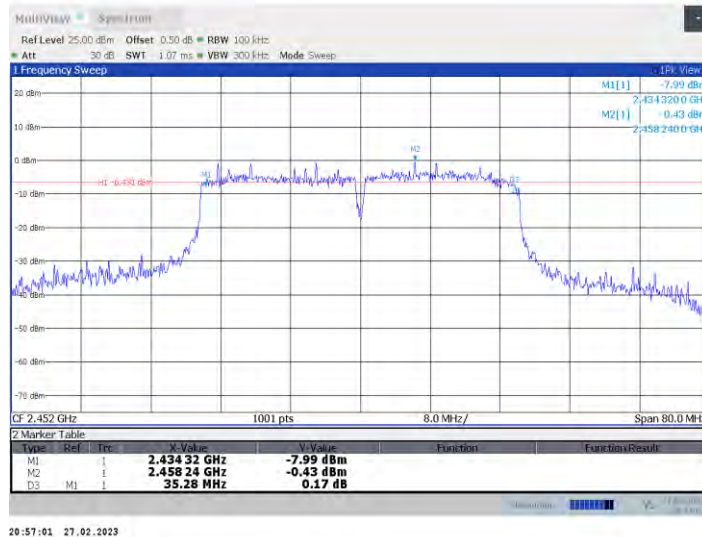
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11n40SISO_Ant2_2437



11n40SISO_Ant2_2452



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Occupied Channel Bandwidth Test Result

TestMode	Antenna	Channel Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Verdict
11b	Ant2	2412	12.663	2405.699	2418.362	Reporting only
		2437	12.737	2430.449	2443.187	
		2462	12.521	2455.583	2468.104	
11g	Ant2	2412	17.700	2403.165	2420.865	
		2437	17.829	2427.887	2445.716	
		2462	17.517	2453.069	2470.586	
11n20SISO	Ant2	2412	18.502	2402.772	2421.275	
		2437	18.520	2427.567	2446.087	
		2462	18.210	2452.780	2470.990	
11n40SISO	Ant2	2422	36.445	2403.710	2440.155	
		2437	36.905	2418.380	2455.285	
		2452	36.649	2433.430	2470.080	

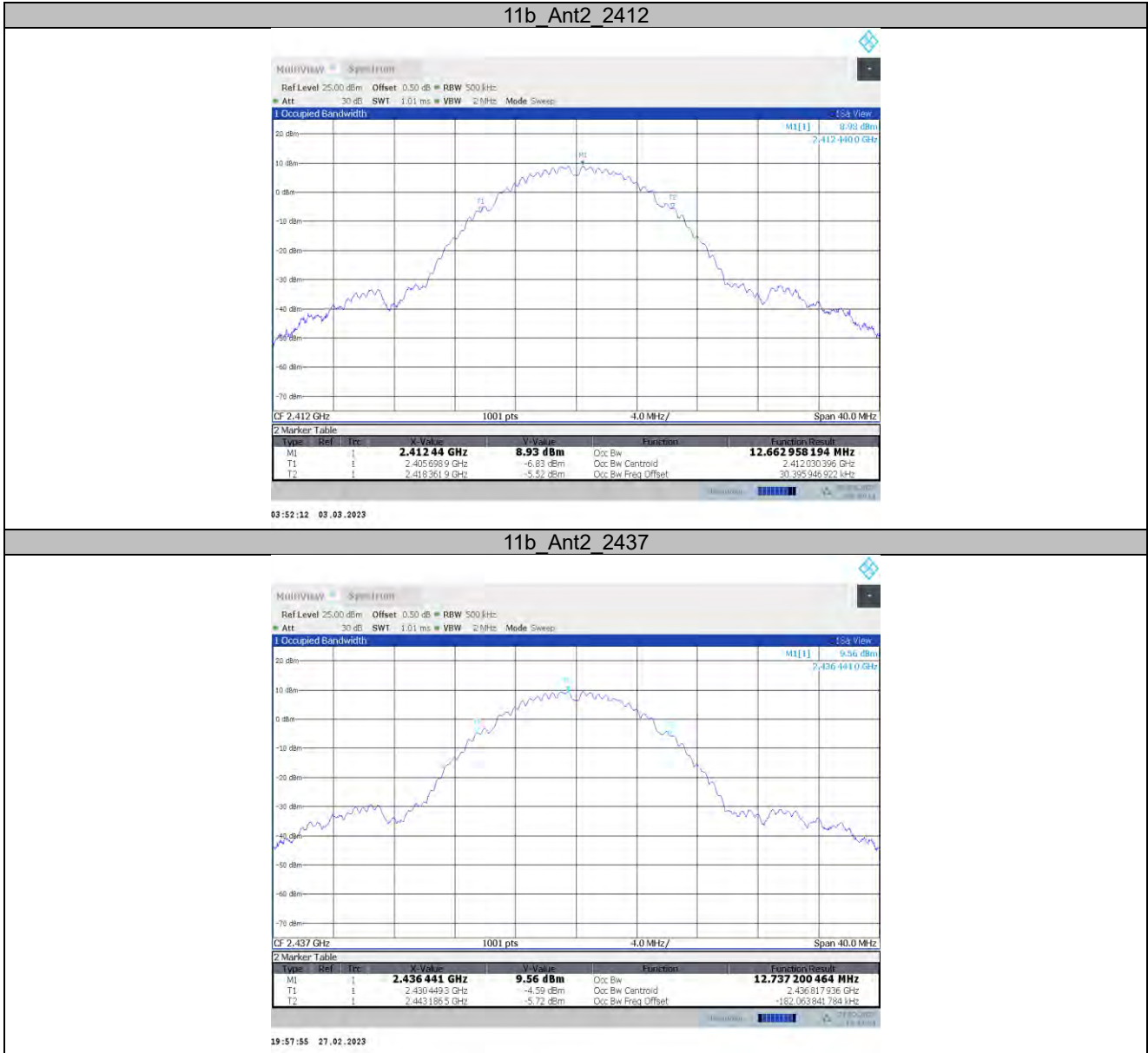


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Test Graphs

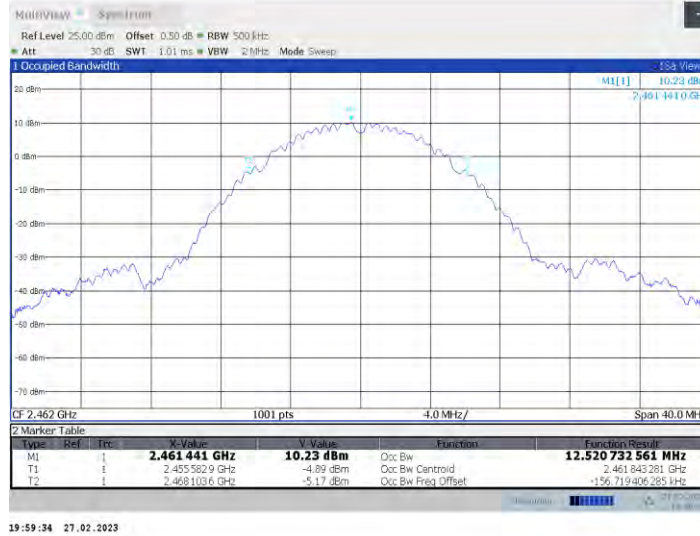


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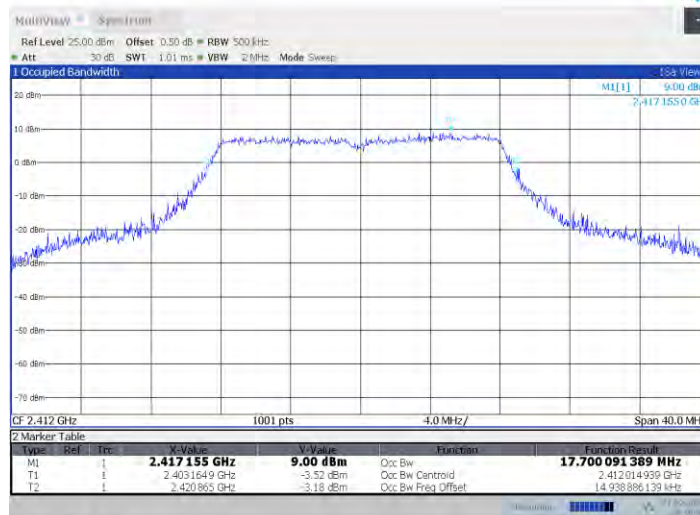
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11b Ant2 2462



19:59:34 27.02.2023

11g Ant2 2412



20:19:50 27.02.2023

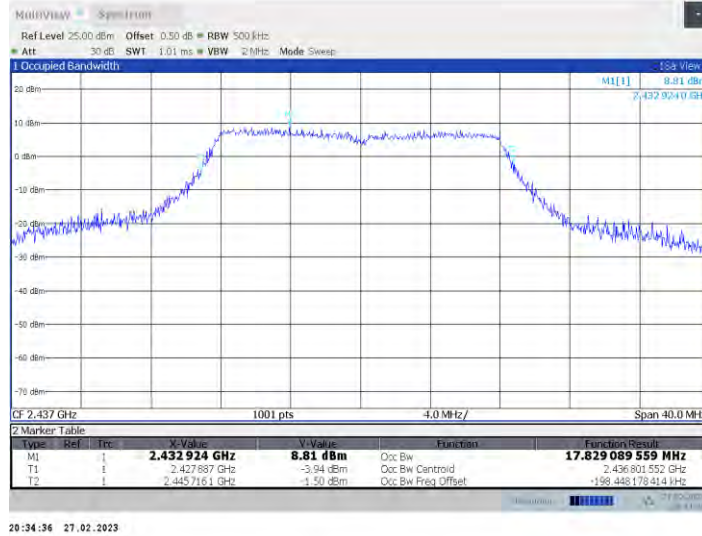


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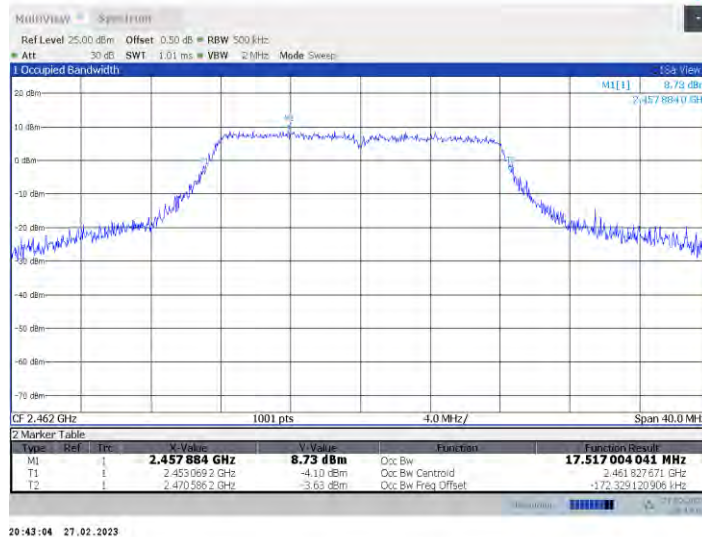
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11g Ant2 2437



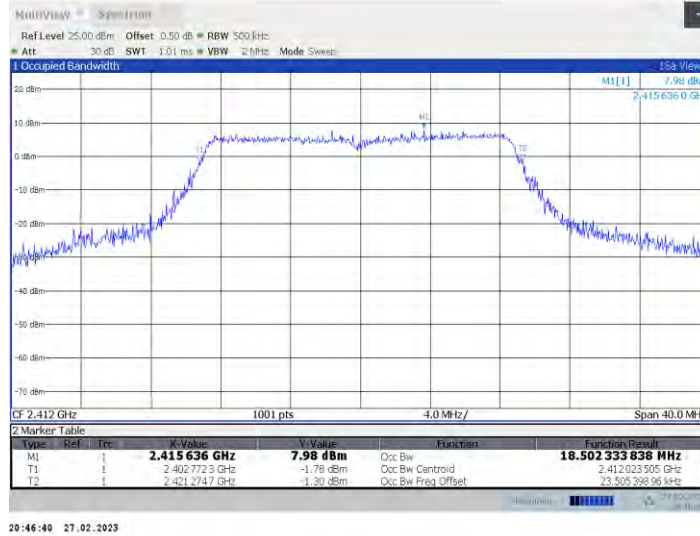
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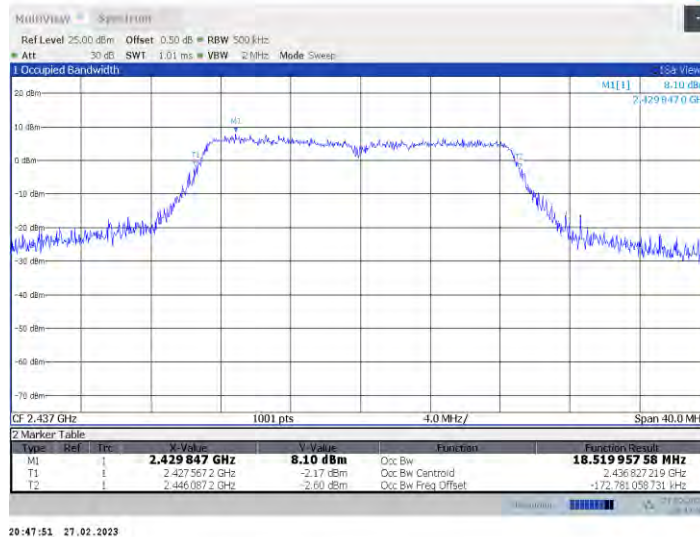
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11n20SISO_Ant2_2412



11n20SISO_Ant2_2437

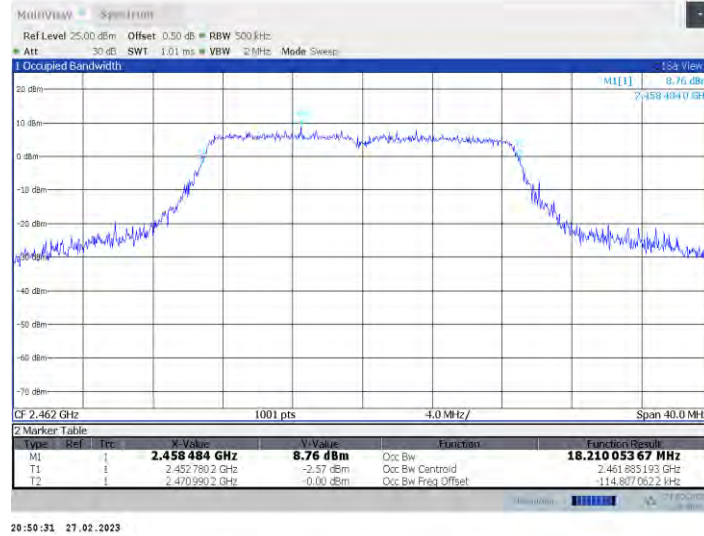


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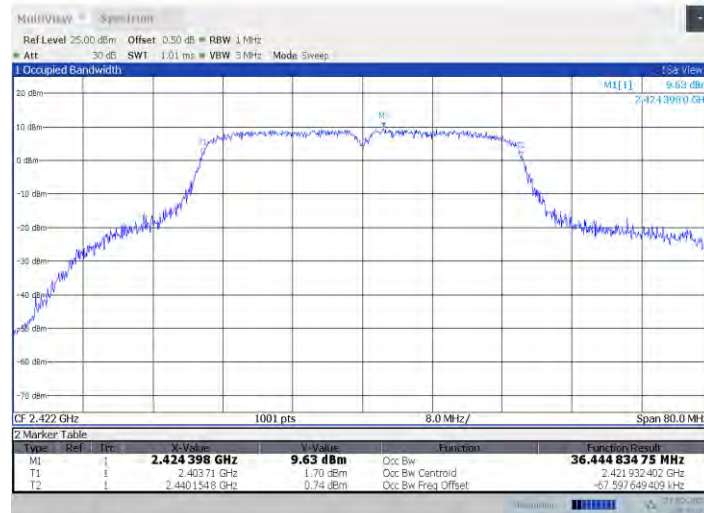
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20:50:31 27.02.2023

11n40SISO_Ant2_2422



20:52:28 27.02.2023

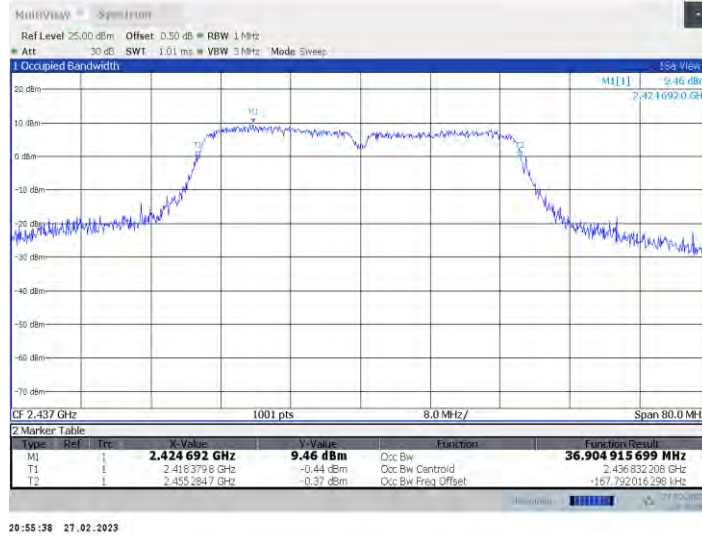


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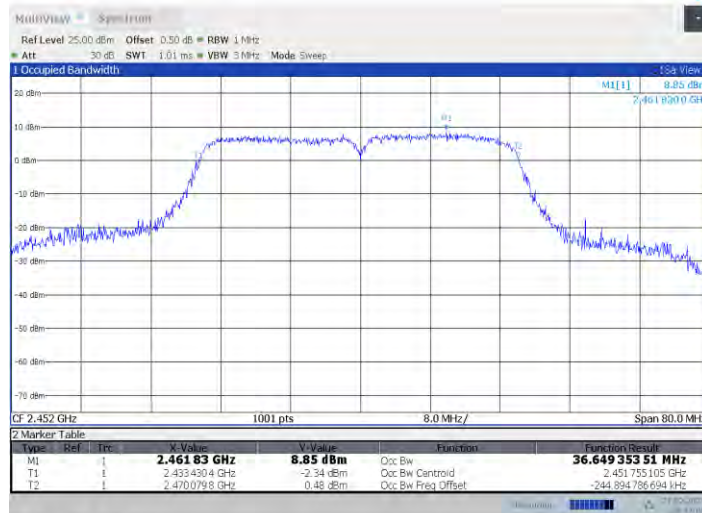
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11n40SISO_Ant2_2437



20:55:38 27.02.2023

11n40SISO_Ant2_2452



20:57:06 27.02.2023



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Report No.: SEWA2208000038RG04

Rev.: 01

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**Maximum conducted output power
Test Result Peak**

TestMode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11b	Ant2	2412	19.88	≤30.00	PASS
		2437	19.65	≤30.00	PASS
		2462	19.45	≤30.00	PASS
11g	Ant2	2412	21.56	≤30.00	PASS
		2437	21.32	≤30.00	PASS
		2462	21.22	≤30.00	PASS
11n20SISO	Ant2	2412	21.32	≤30.00	PASS
		2437	21.22	≤30.00	PASS
		2462	21.03	≤30.00	PASS
11n40SISO	Ant2	2422	20.39	≤30.00	PASS
		2437	20.32	≤30.00	PASS
		2452	20.21	≤30.00	PASS



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**Maximum power spectral density
Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11b	Ant2	2412	-4.16	≤8.00	PASS
		2437	-5.17	≤8.00	PASS
		2462	-3.69	≤8.00	PASS
11g	Ant2	2412	-13.44	≤8.00	PASS
		2437	-14.00	≤8.00	PASS
		2462	-13.45	≤8.00	PASS
11n20SISO	Ant2	2412	-15.35	≤8.00	PASS
		2437	-14.39	≤8.00	PASS
		2462	-15.31	≤8.00	PASS
11n40SISO	Ant2	2422	-18.21	≤8.00	PASS
		2437	-17.81	≤8.00	PASS
		2452	-18.91	≤8.00	PASS

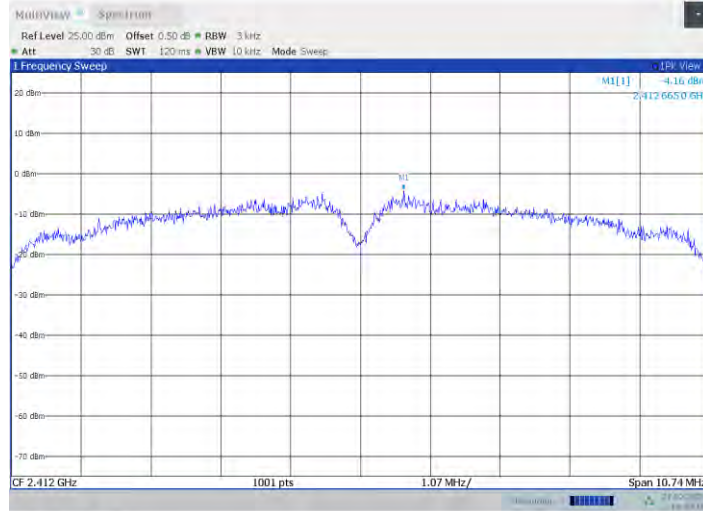


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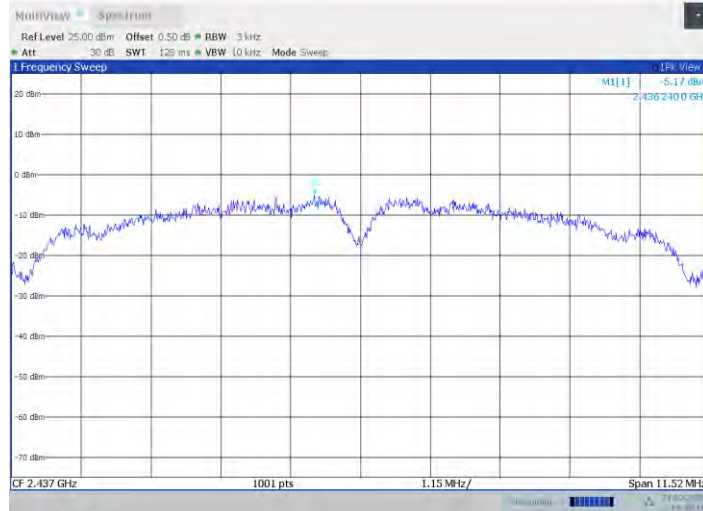
Test Graphs

11b Ant2 2412



19:53:17 27.02.2023

11b Ant2 2437



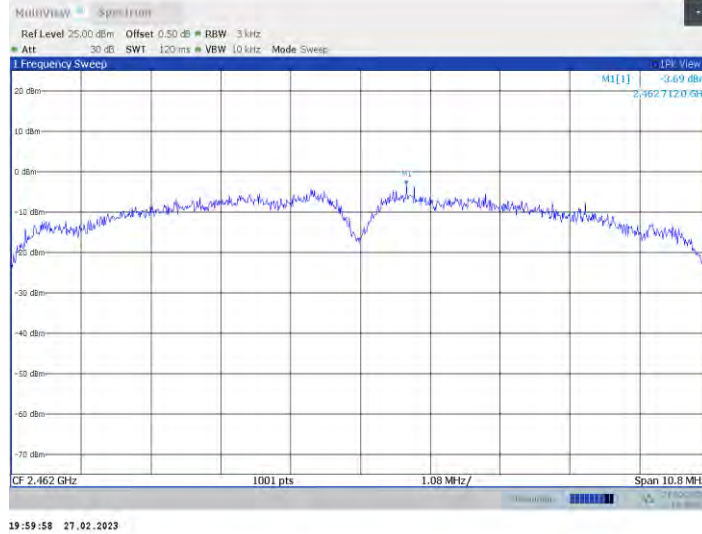
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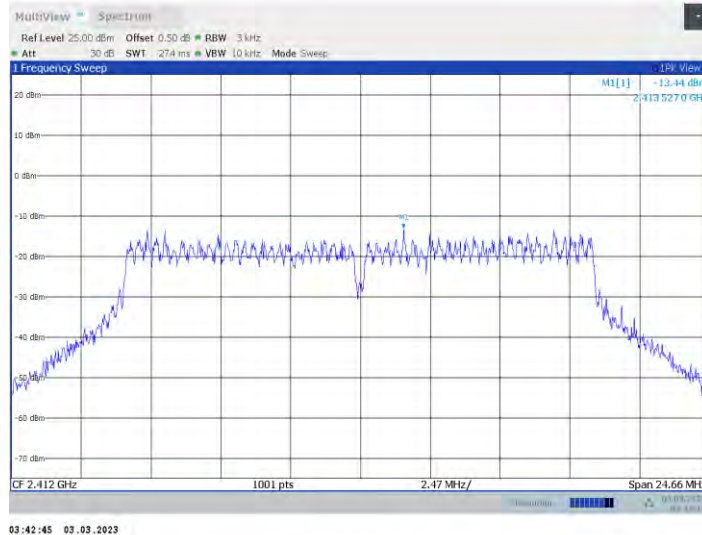
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11b Ant2 2462



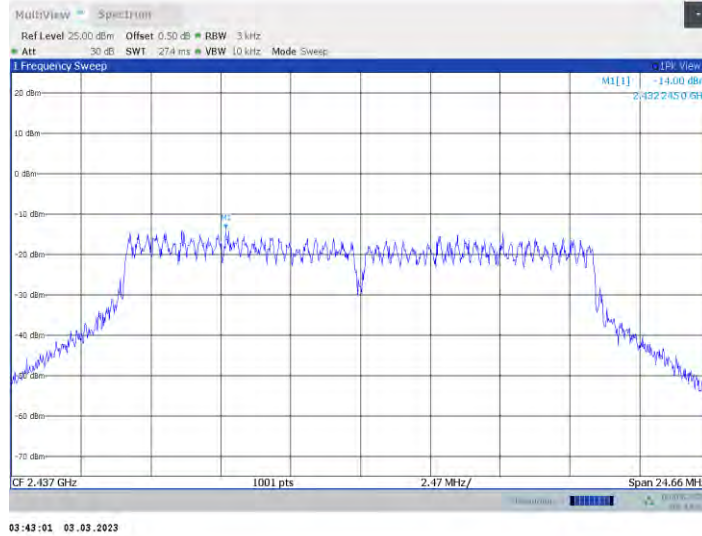
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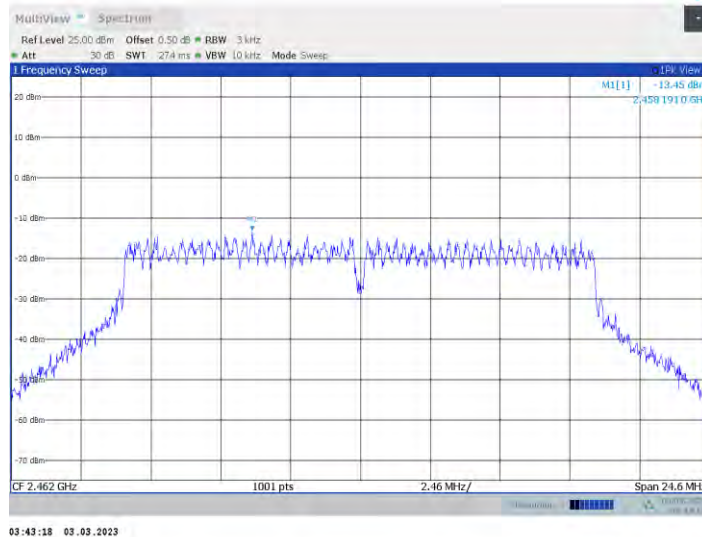
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11g Ant2 2437



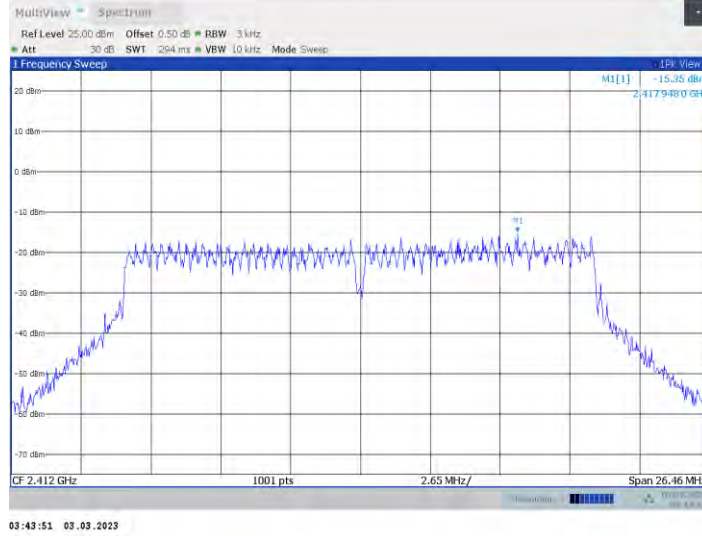
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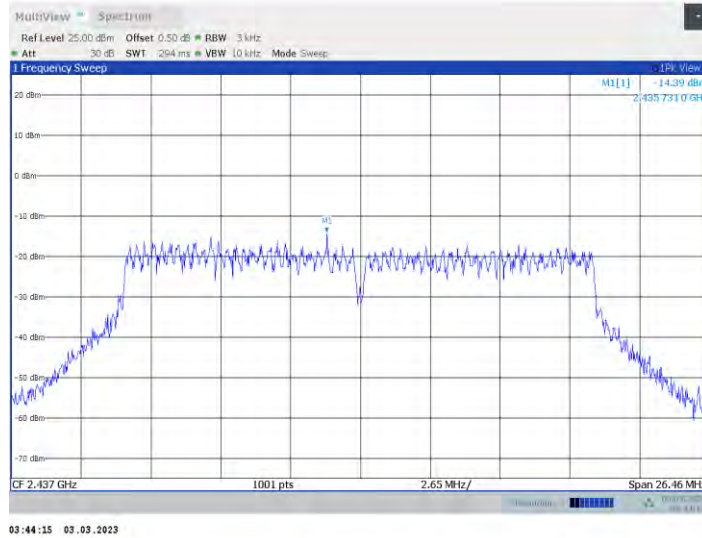
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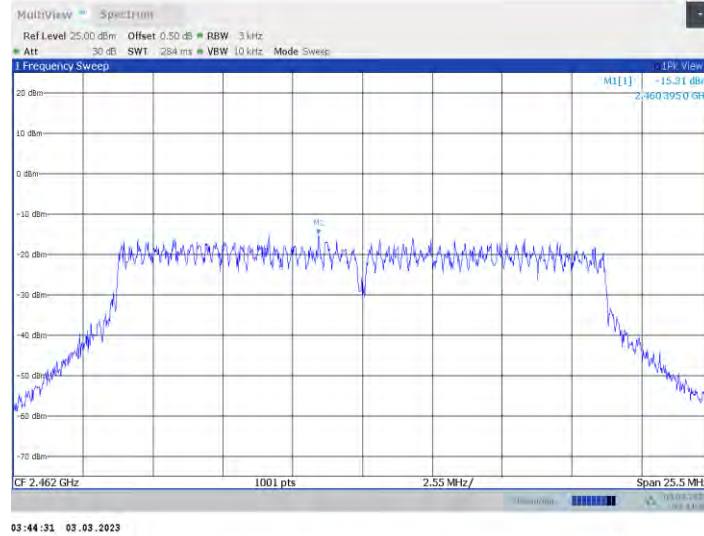
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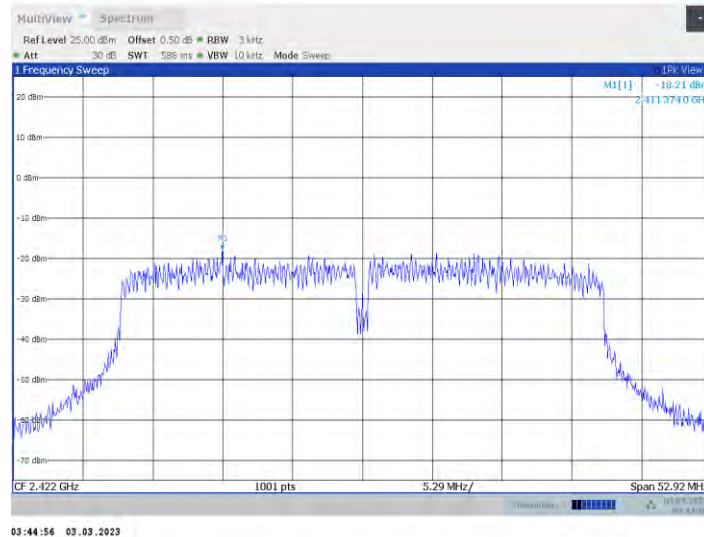
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11n20SISO_Ant2_2462



11n40SISO_Ant2_2422

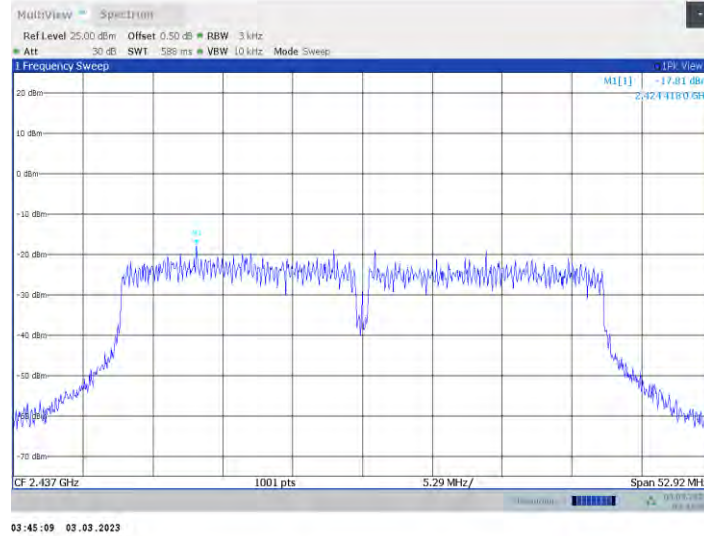


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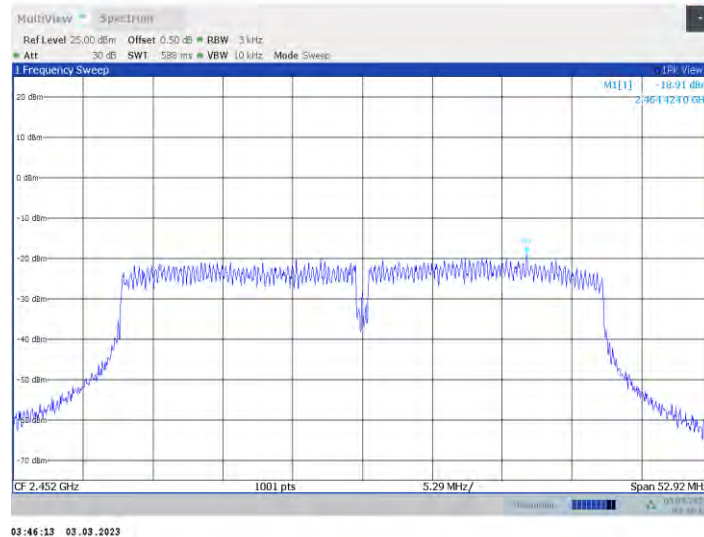
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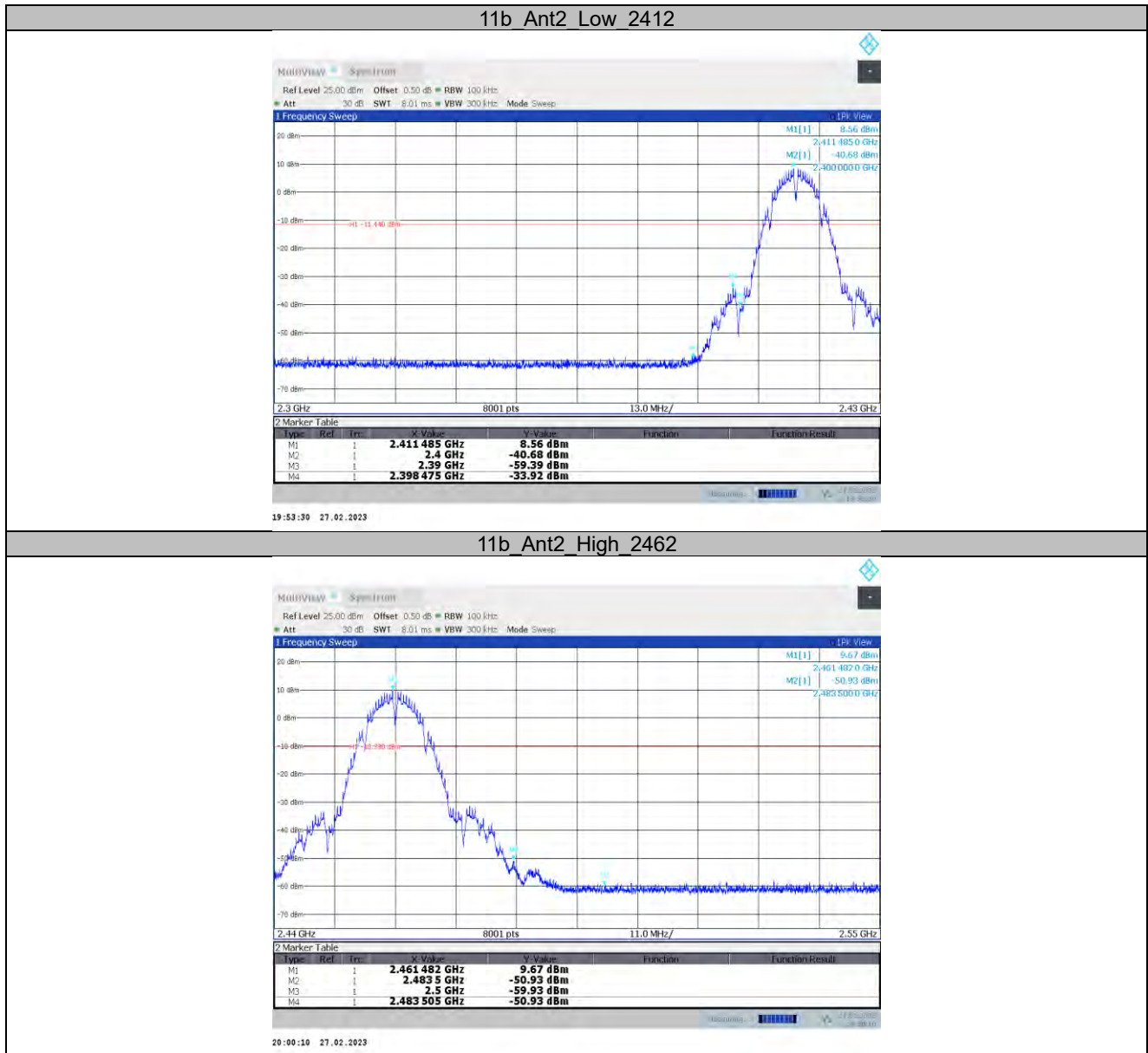
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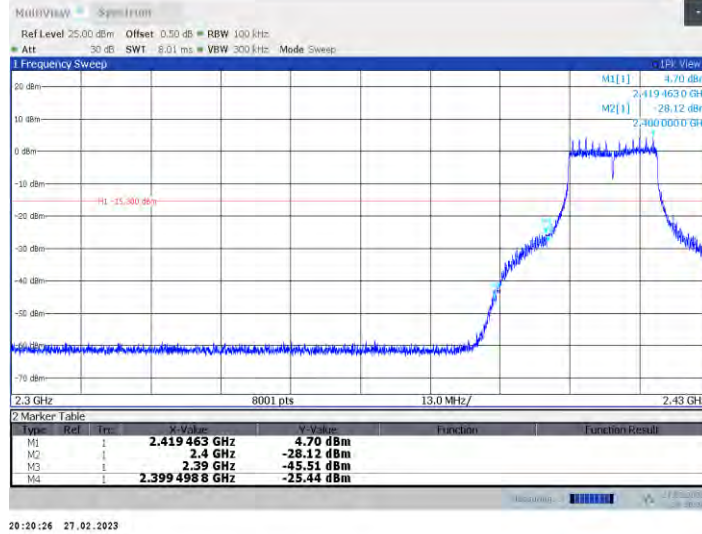
Band edge measurements Test Graphs



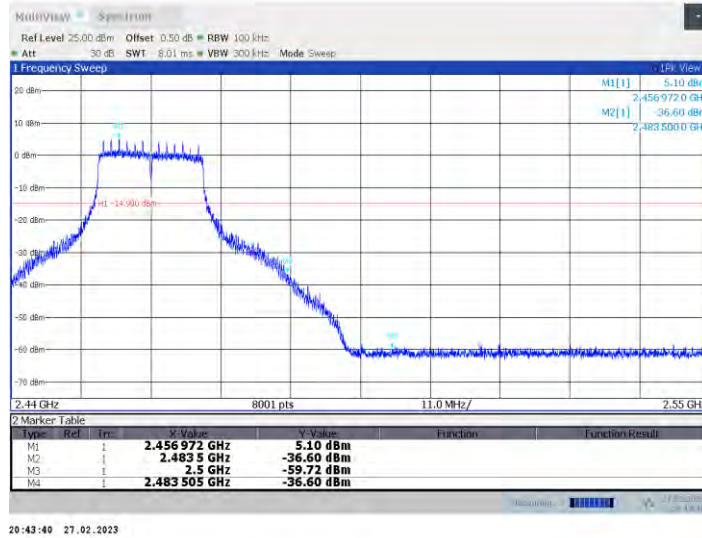
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11g_Ant2_Low_2412



11g_Ant2_High_2462

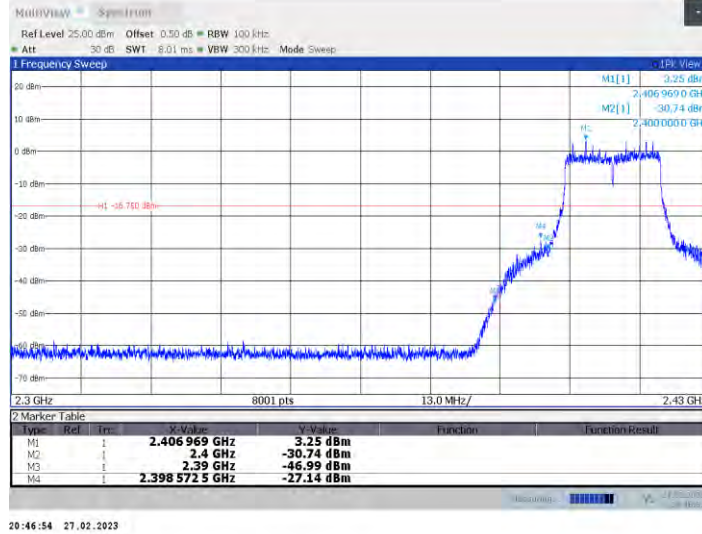


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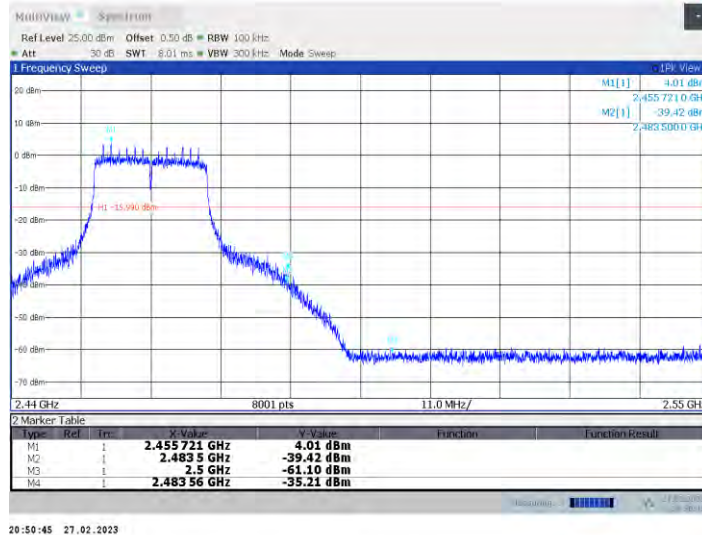
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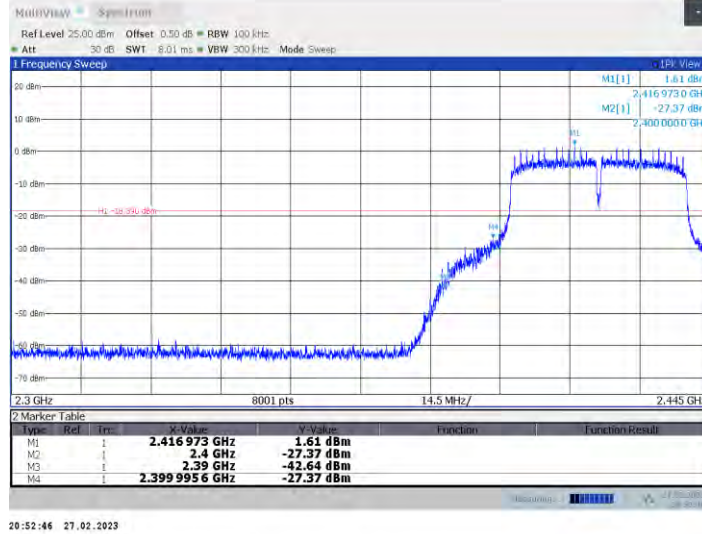


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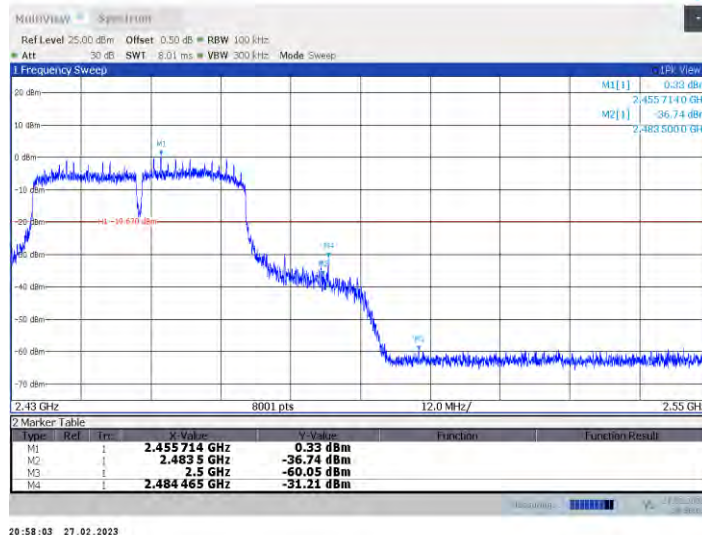
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20:52:46 27.02.2023

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20:58:03 27.02.2023



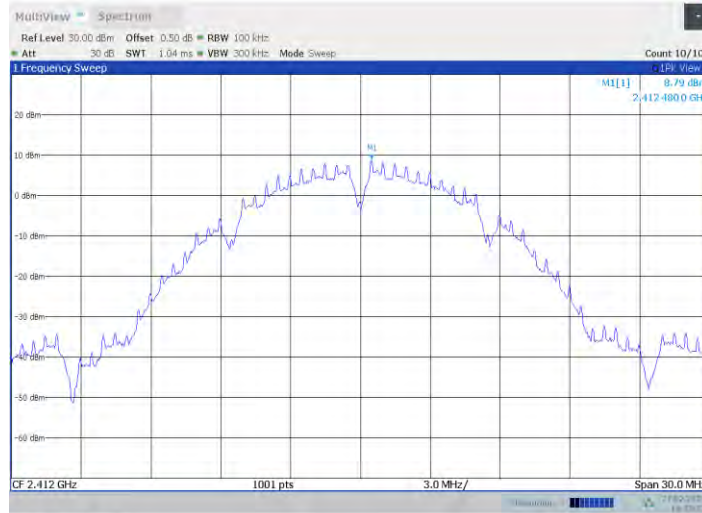
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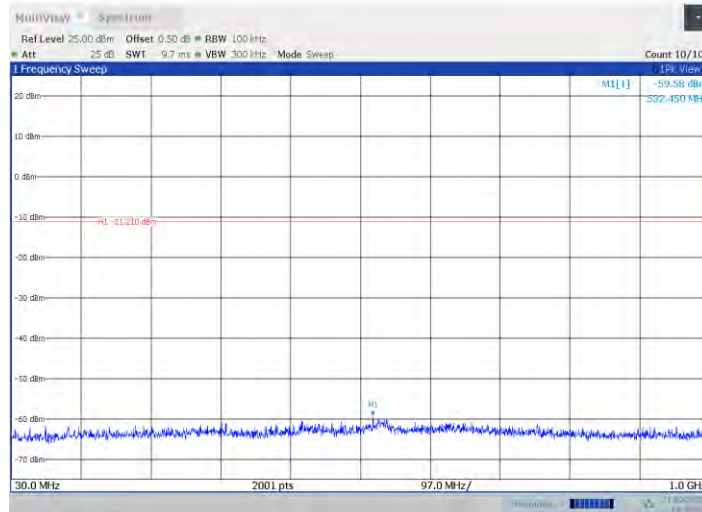
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Conducted Spurious Emission Test Graphs

11b_Ant2_2412_0~Reference



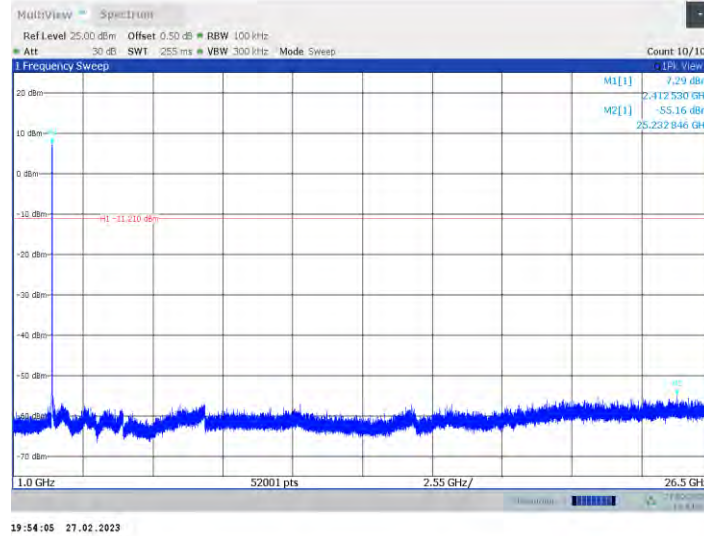
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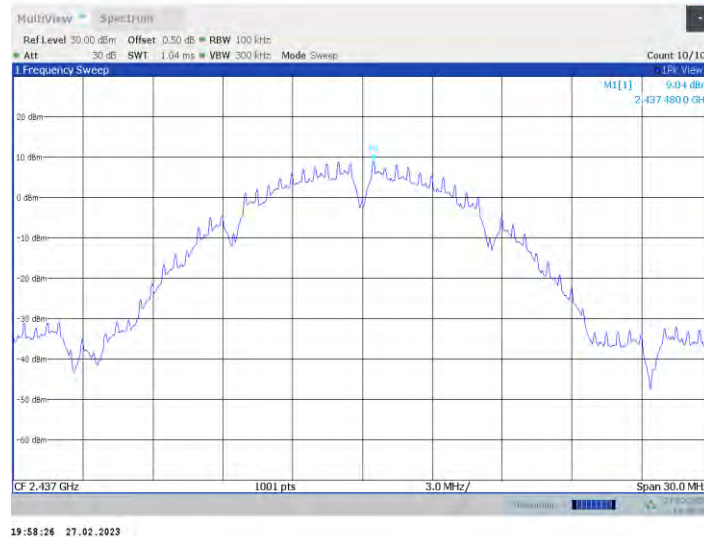
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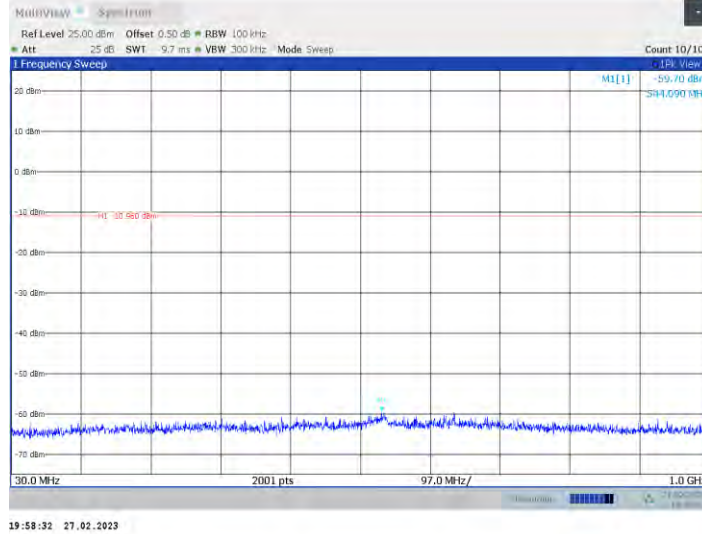
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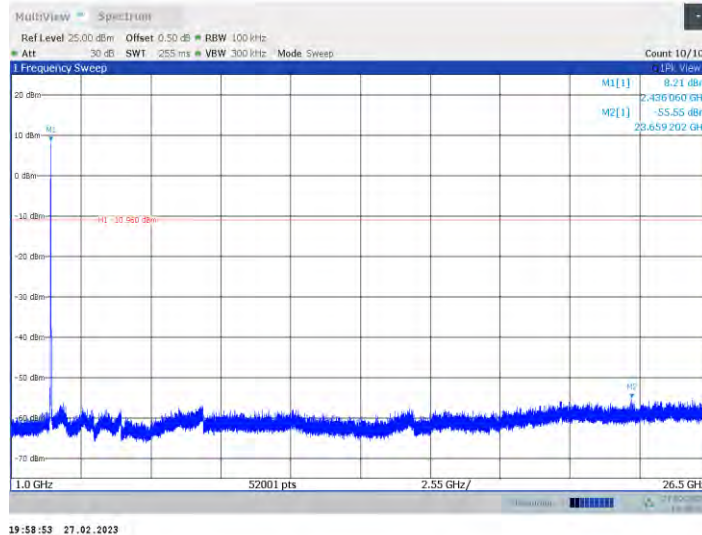
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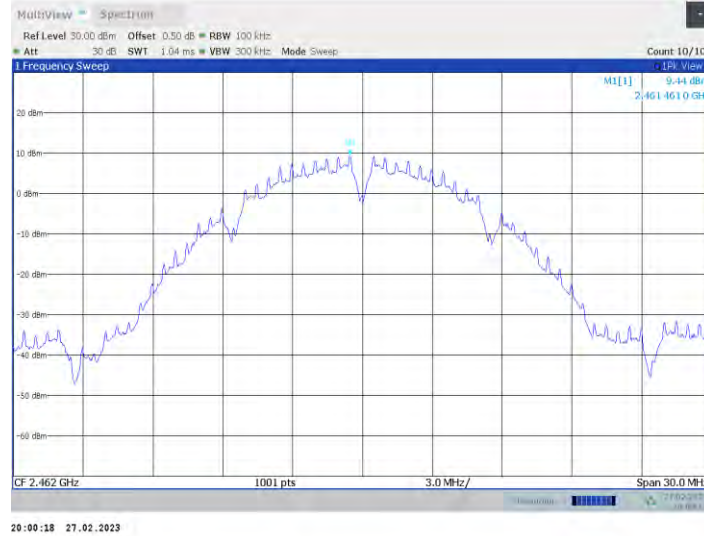


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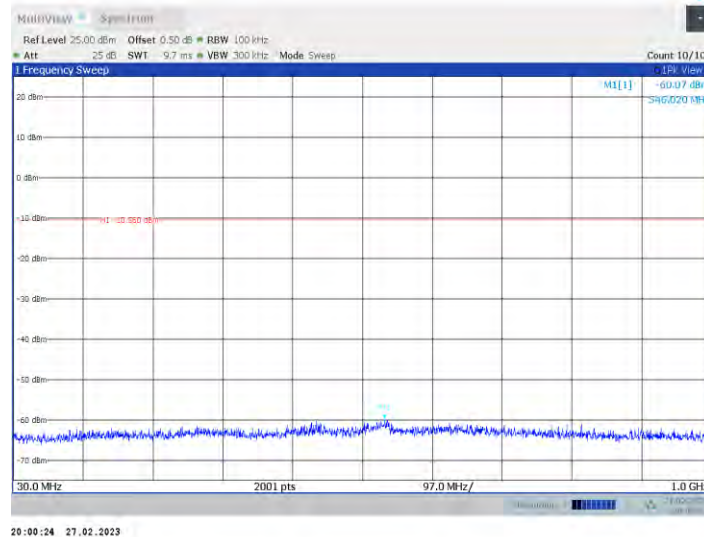
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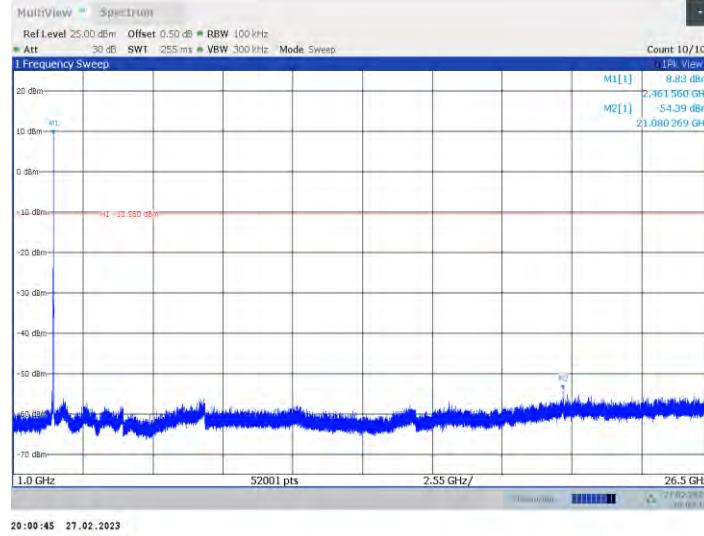


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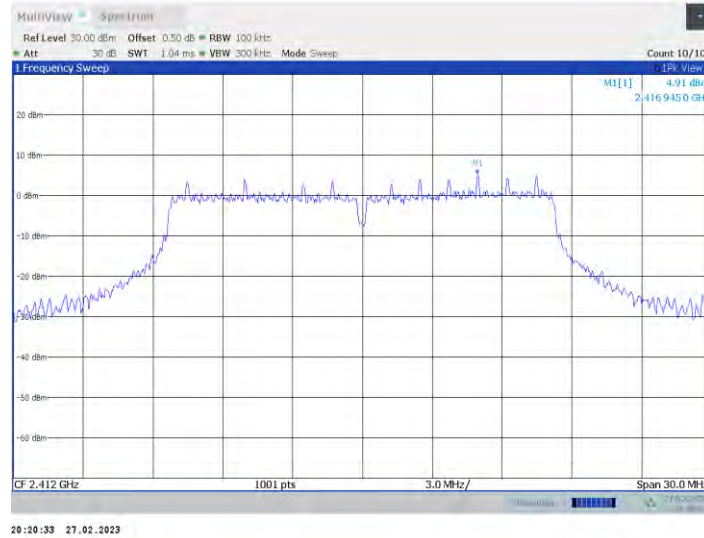
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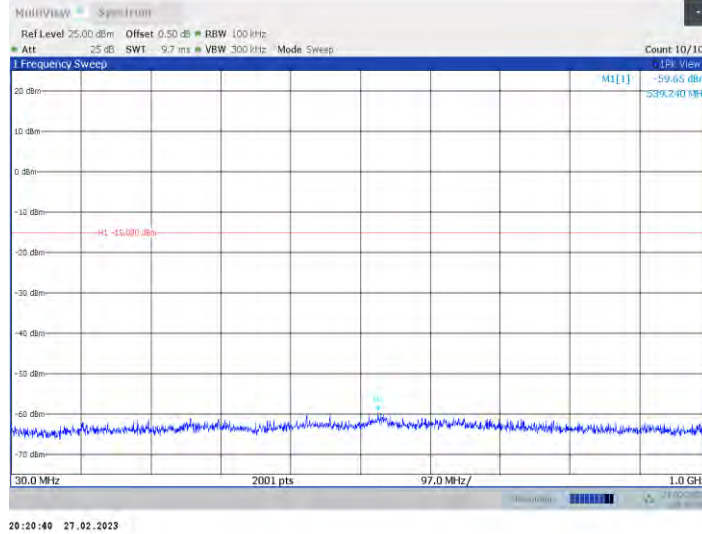
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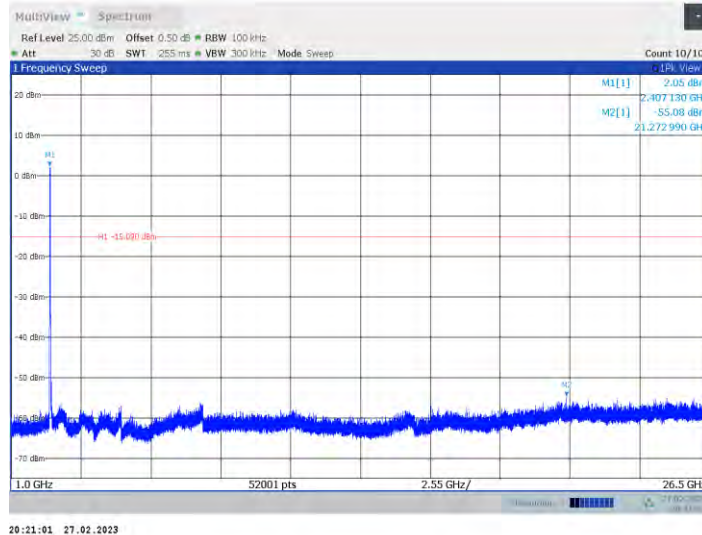
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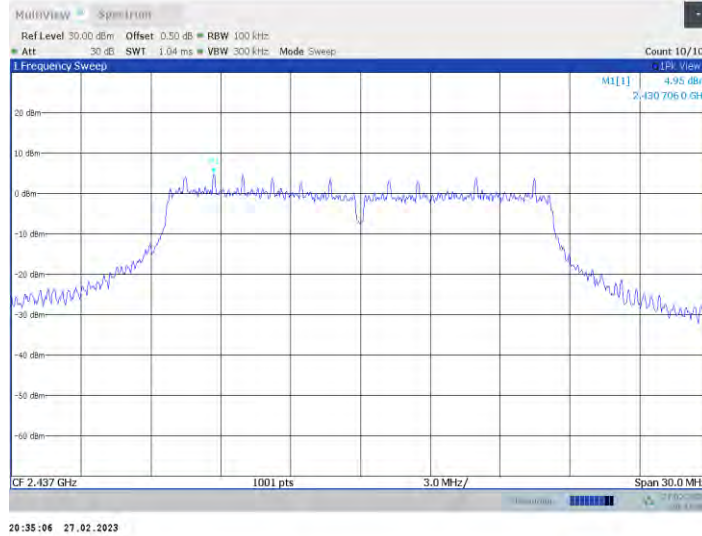


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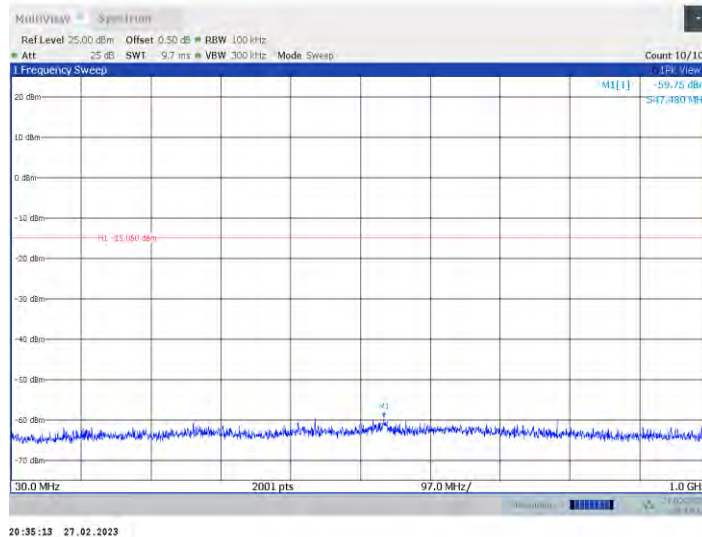
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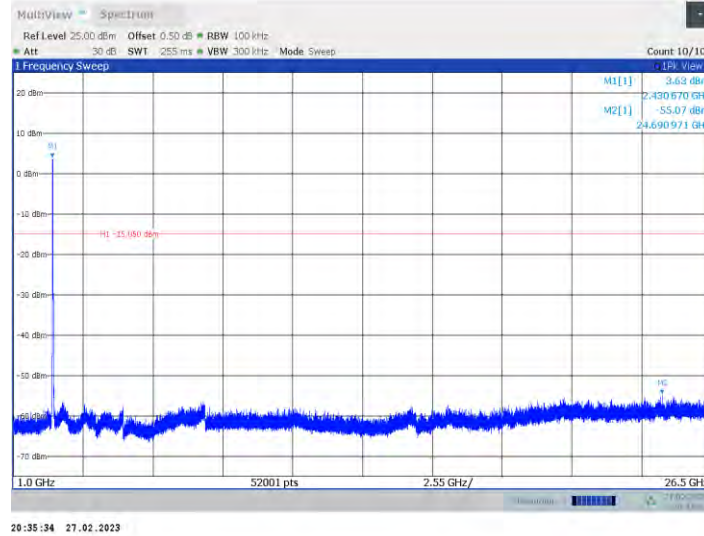
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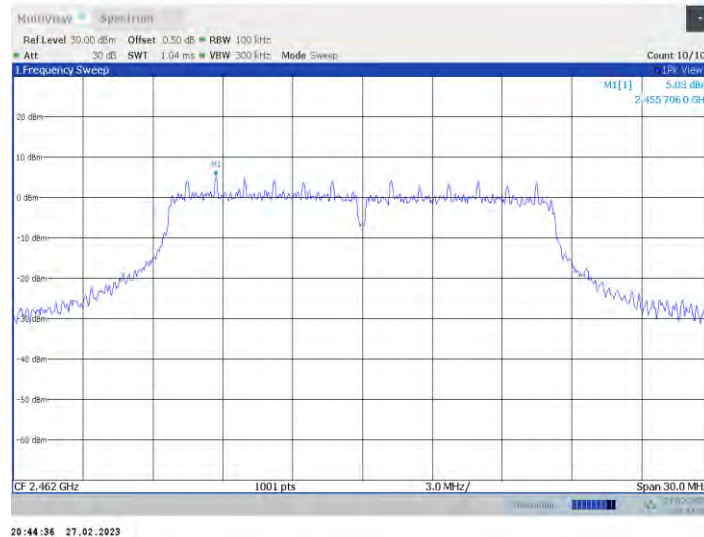
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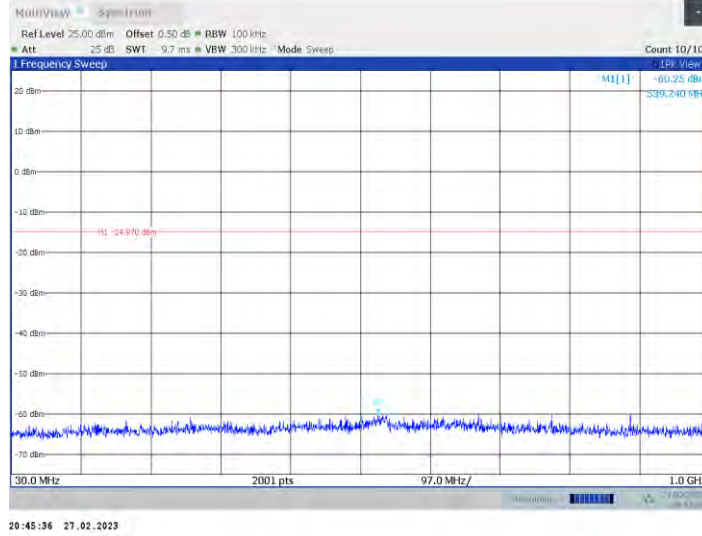
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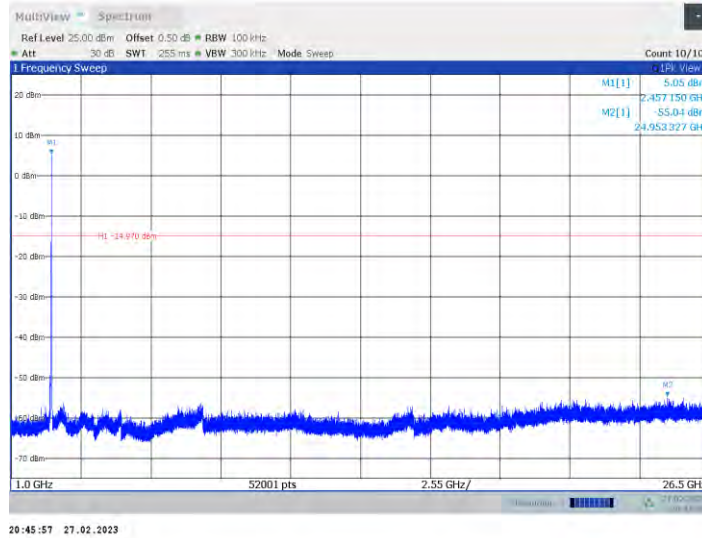
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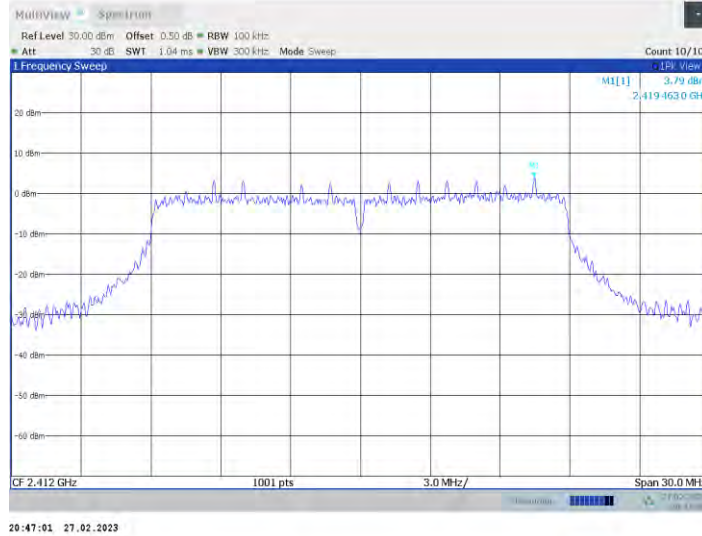
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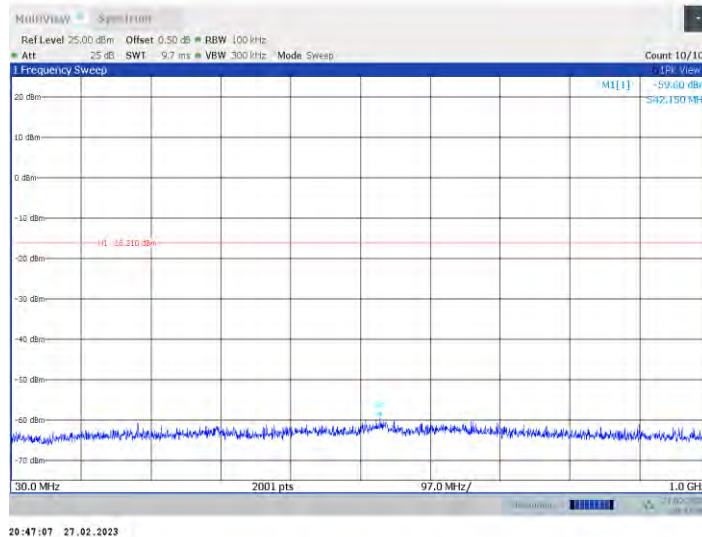
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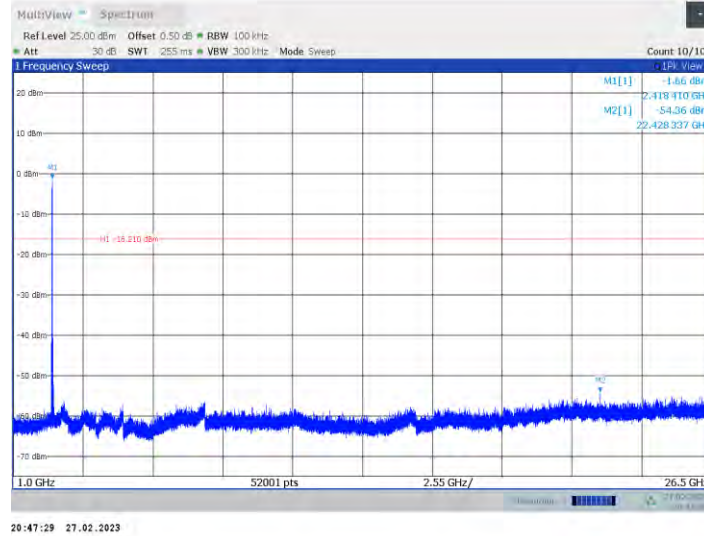


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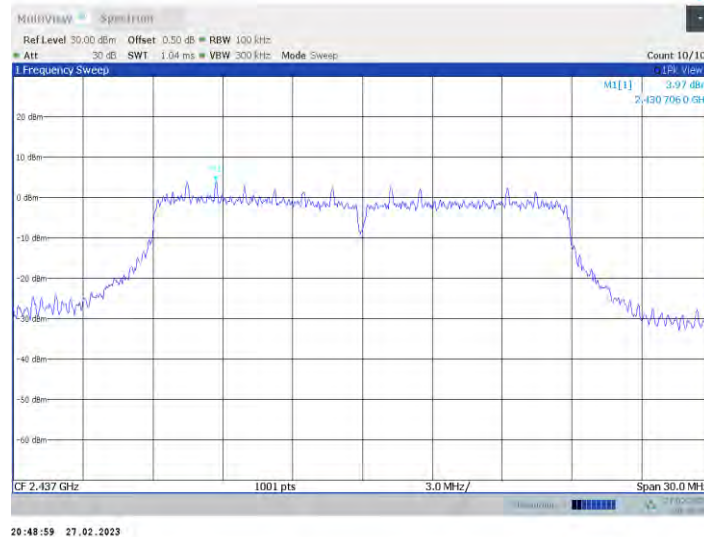
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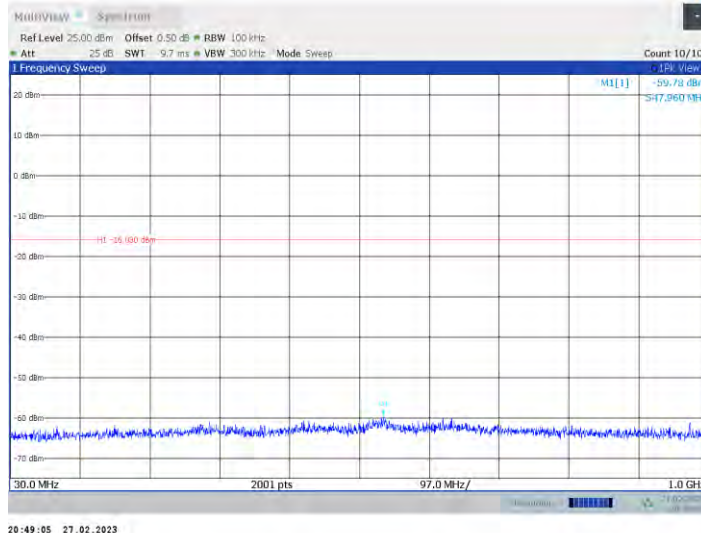
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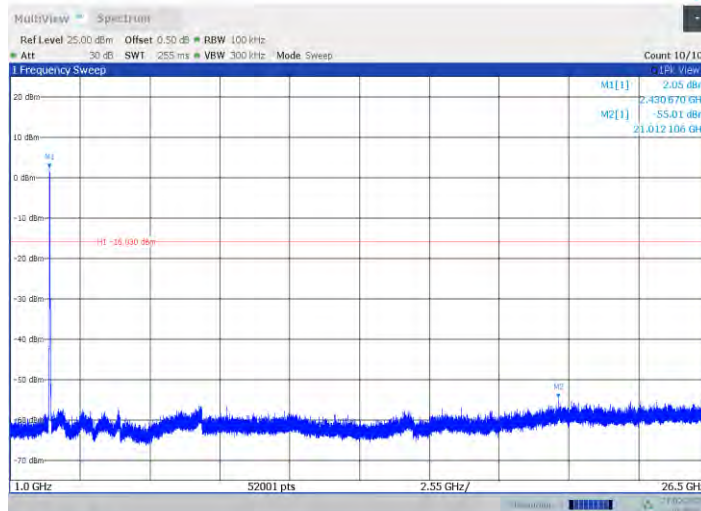
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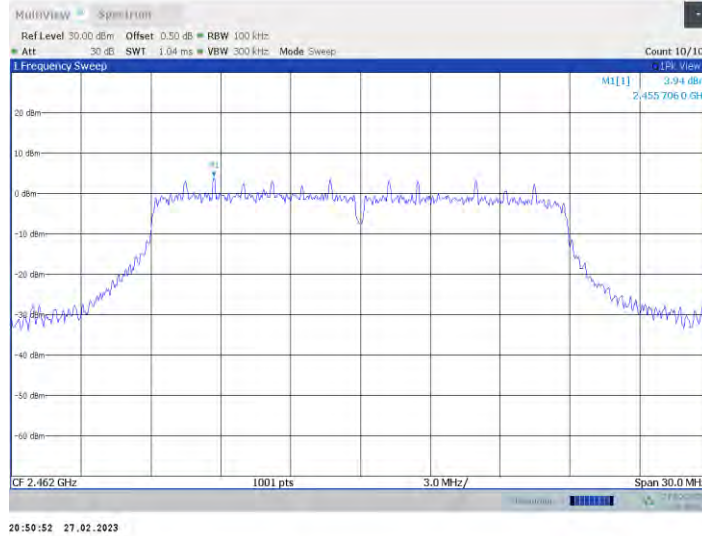
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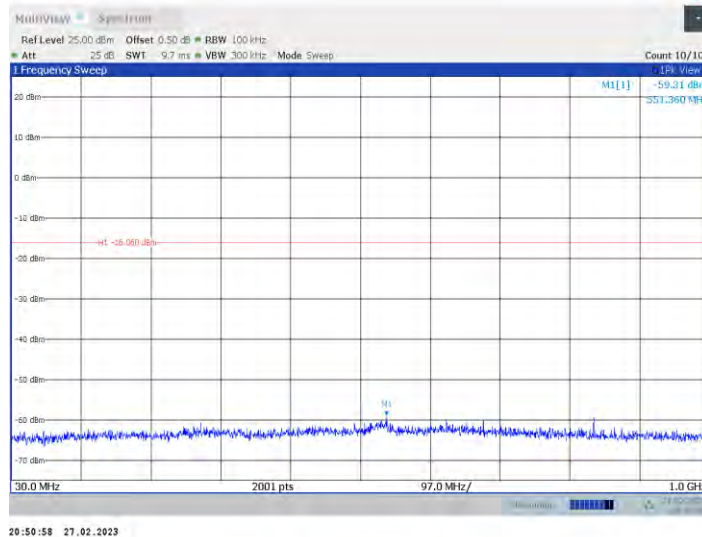
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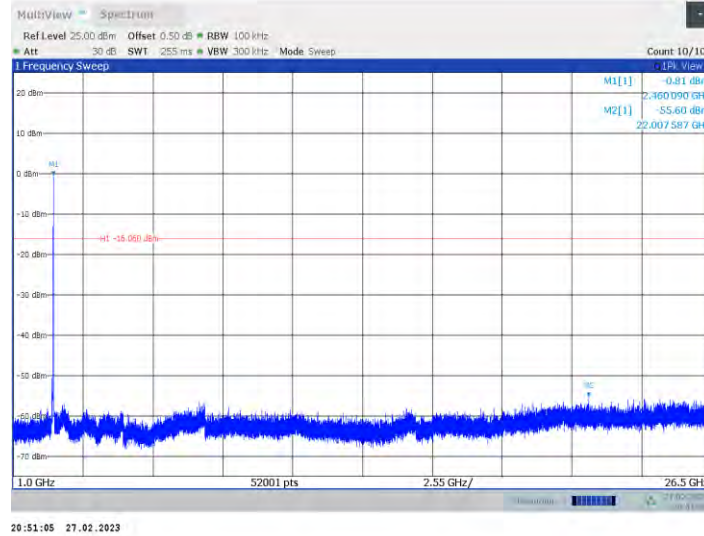


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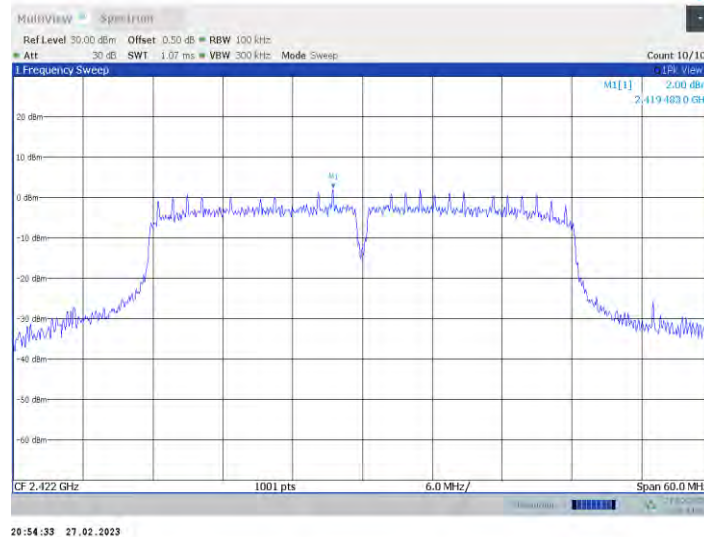
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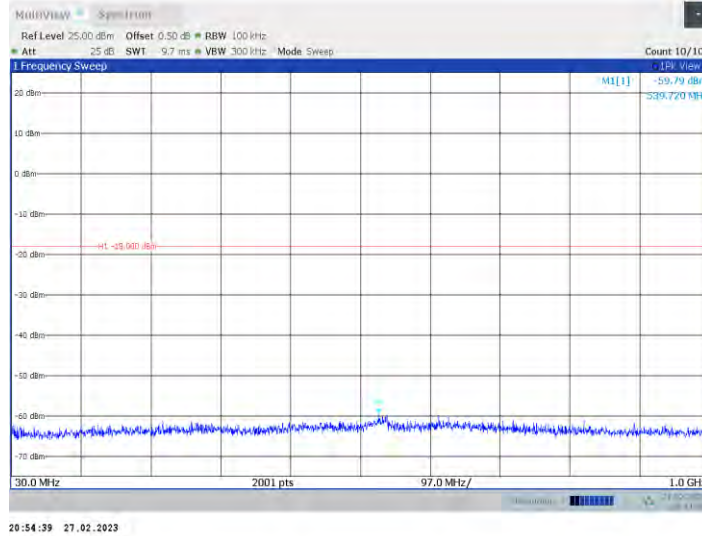
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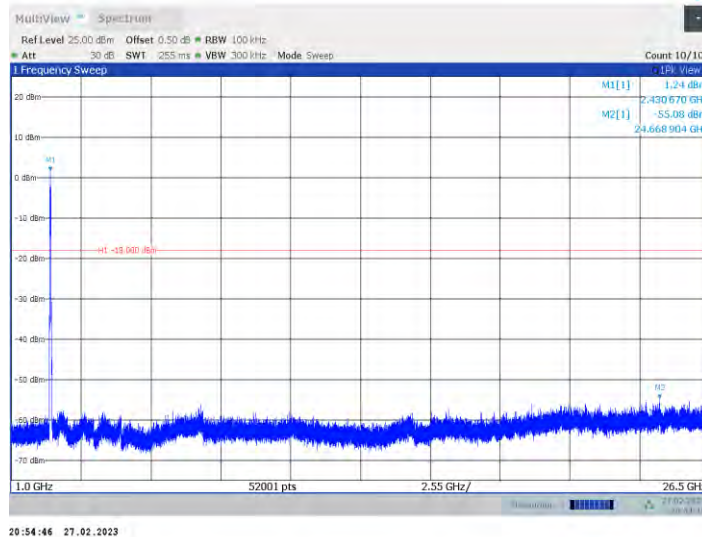
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11n40SISO_Ant2_2422_30~1000



11n40SISO_Ant2_2422_1000~26500

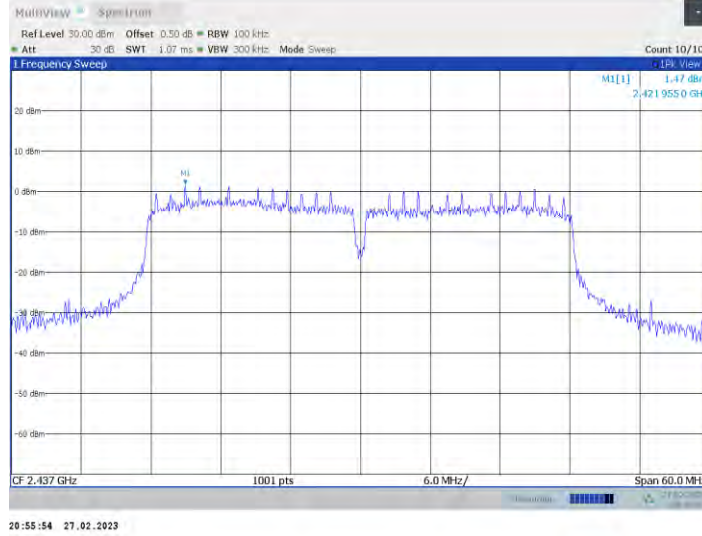


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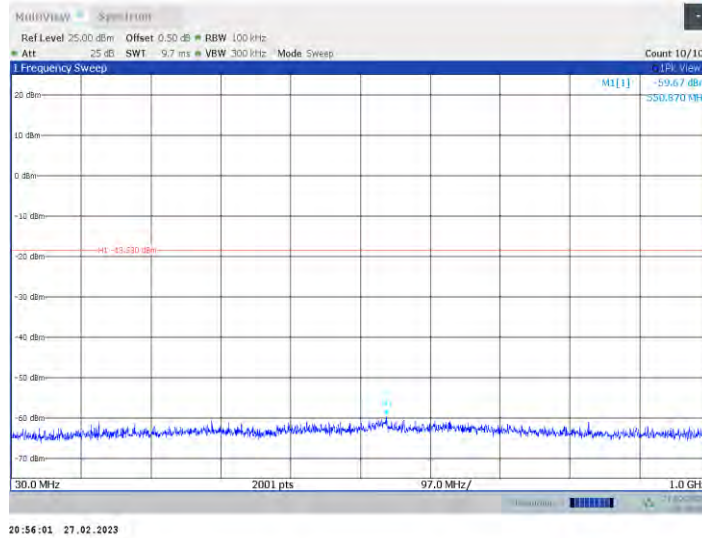
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11n40SISO_Ant2_2437_0~Reference



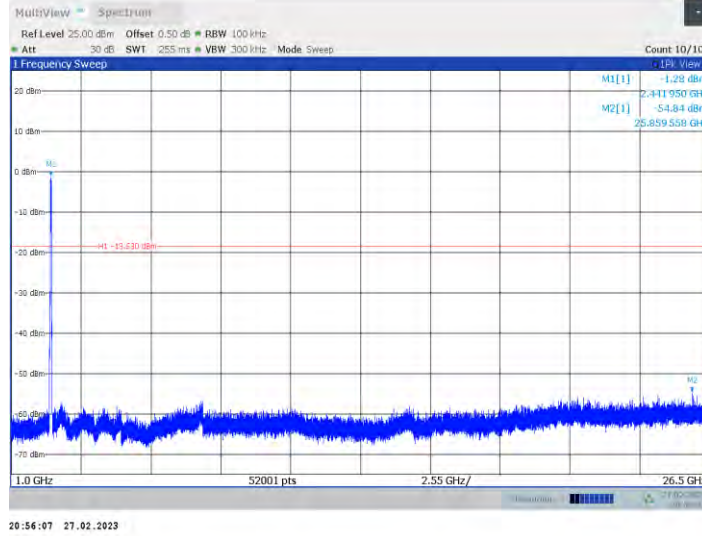
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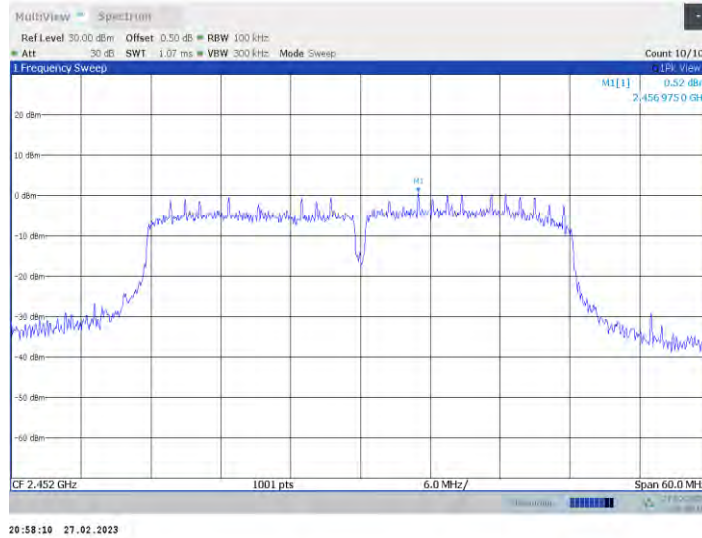
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11n40SISO_Ant2_2437_1000~26500



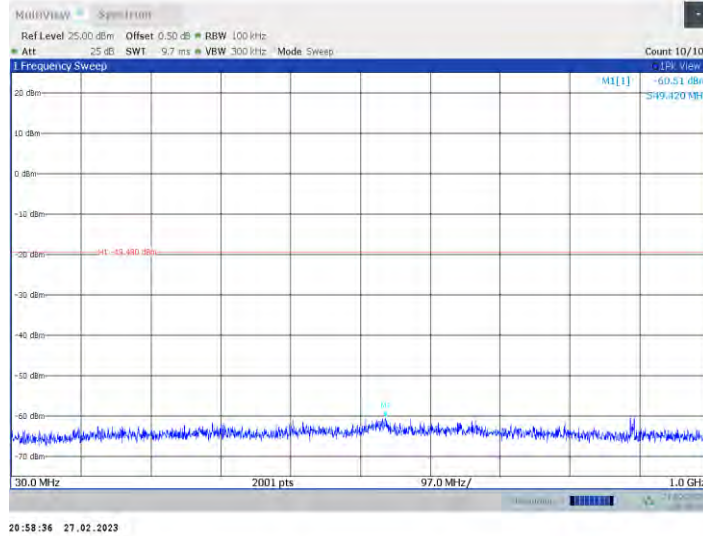
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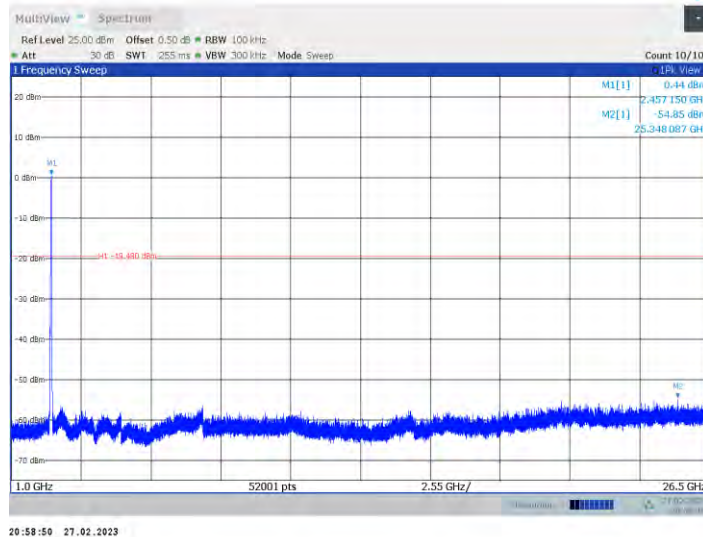
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Duty Cycle Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11b	Ant2	2412	8.24	8.43	97.75
11g	Ant2	2412	1.36	1.56	87.18
11n20SISO	Ant2	2412	1.27	1.47	86.39
11n40SISO	Ant2	2422	0.63	0.83	75.90

Note:

Radiated Emission Average VBW = 1 / T

TestMode	T[ms]	Period[ms]	Duty Cycle[%]	1/T[kHz]	VBW Setting
11b	8.24	8.43	97.75	0.12136	0.13KHz
11g	1.36	1.56	87.18	0.73529	0.75KHz
11n20SISO	1.27	1.47	86.39	0.78740	0.82KHz
11n40SISO	0.63	0.83	75.90	1.58730	1.60KHz



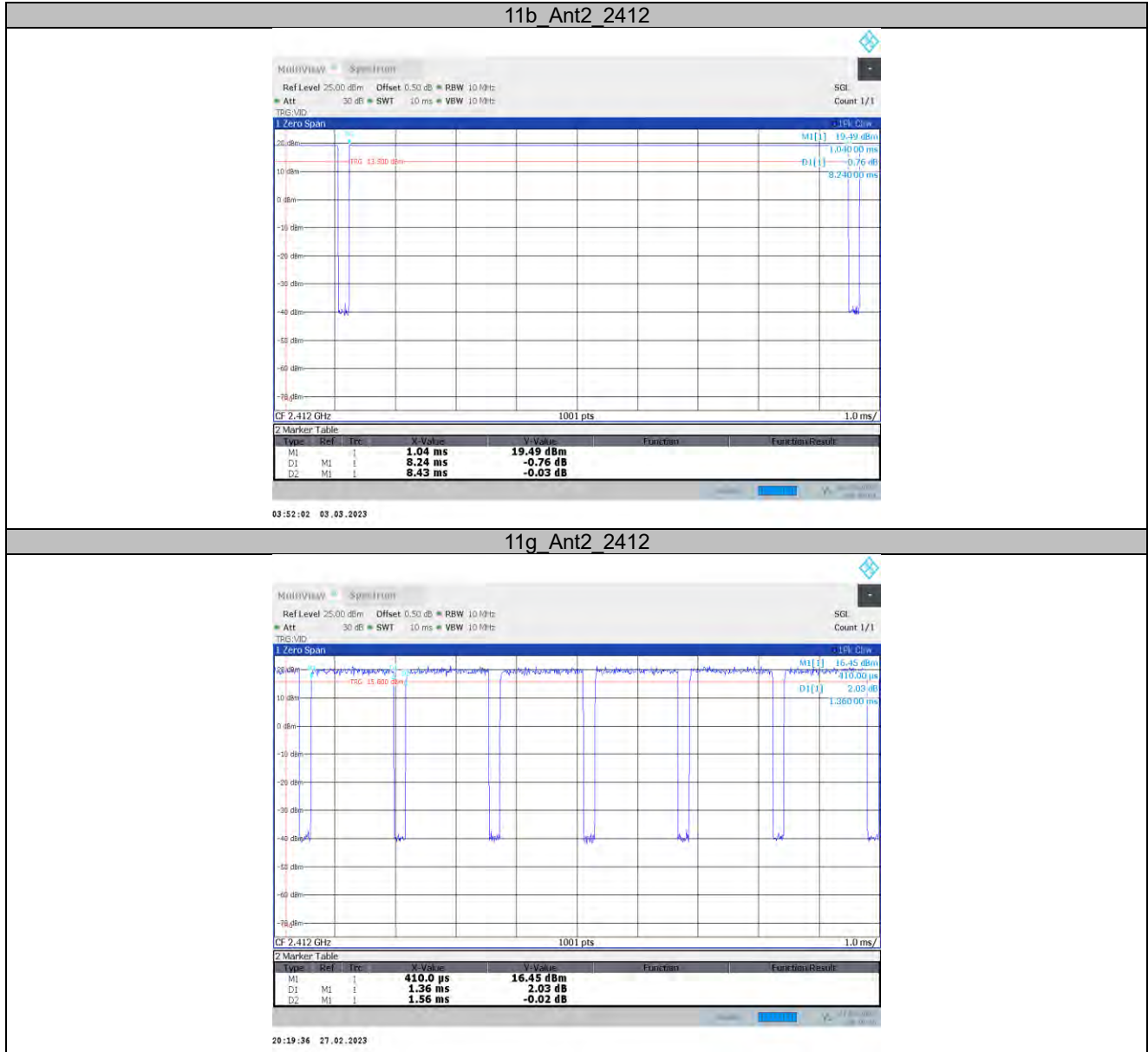
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Test Graphs

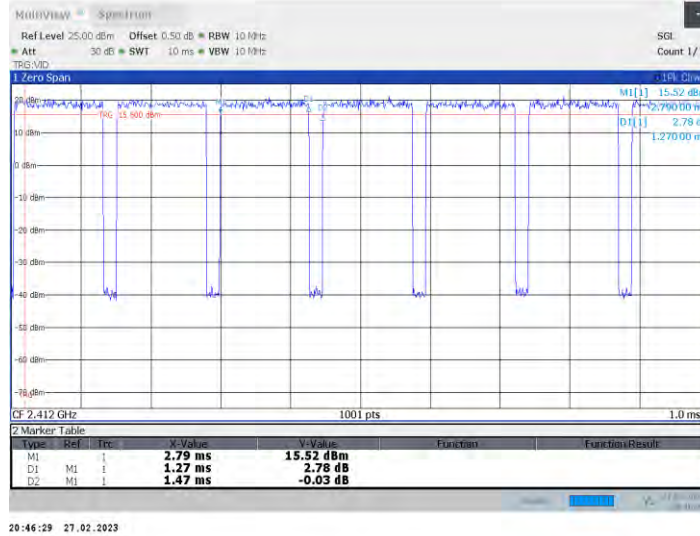


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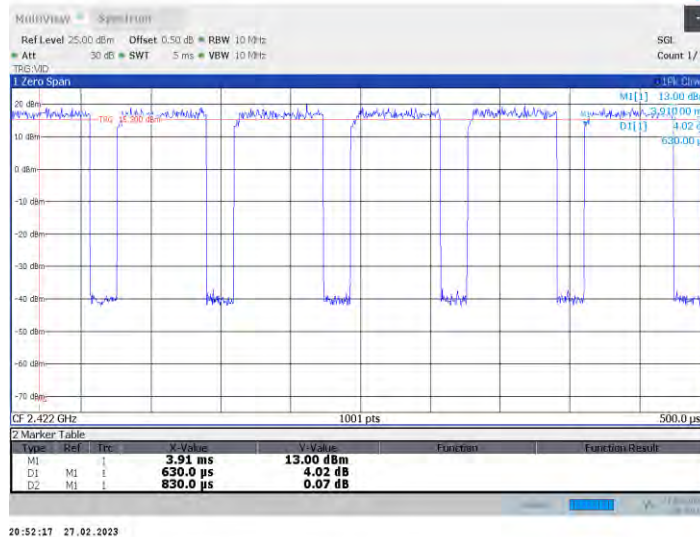
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11n20SISO_Ant2_2412



11n40SISO_Ant2_2422



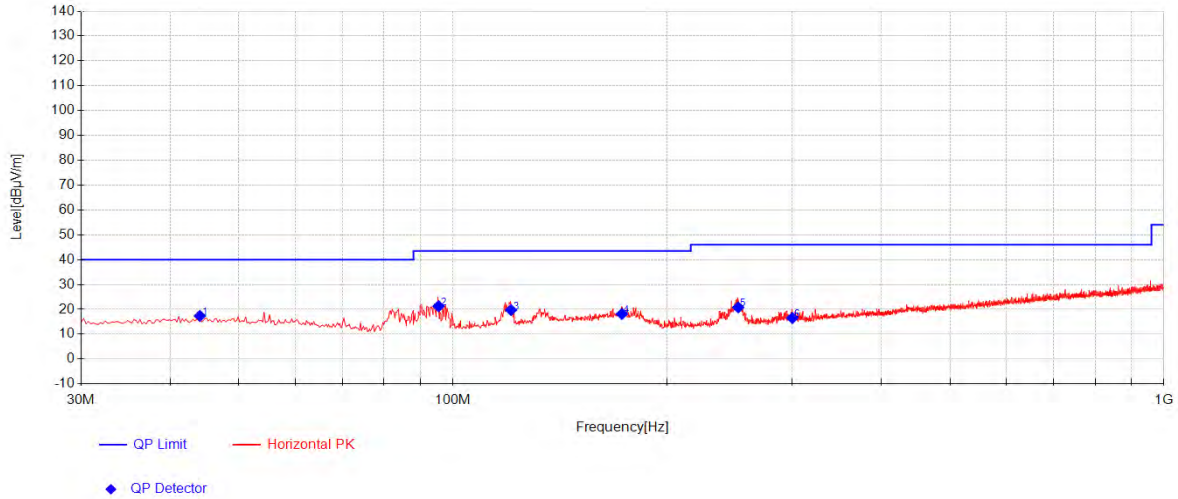
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Radiated Spurious Emissions

Radiated emission below 1GHz

Worst case Mode: 802.11n40_Channel 03



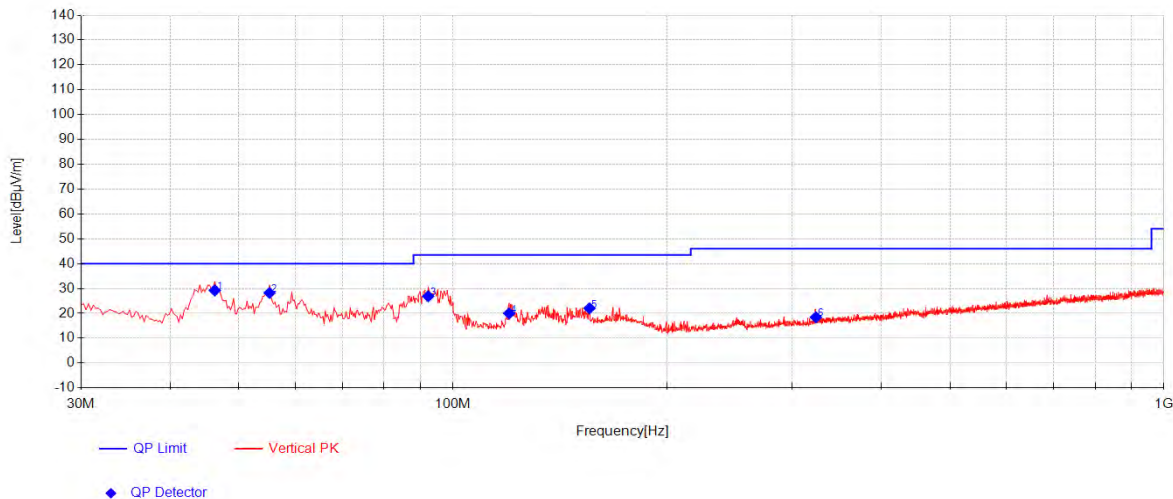
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	44.065	31.68	-28.05	13.73	17.36	40.00	22.64	158	22	Horizontal
2	95.475	38.93	-27.50	9.83	21.26	43.50	22.24	169	107	Horizontal
3	120.695	35.12	-27.67	12.28	19.73	43.50	23.77	153	339	Horizontal
4	172.8325	30.26	-26.58	14.49	18.16	43.50	25.34	201	179	Horizontal
5	251.8875	35.24	-26.08	11.62	20.77	46.00	25.23	228	27	Horizontal
6	300.145	30.02	-26.30	12.80	16.52	46.00	29.48	165	360	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	46.2475	43.65	-28.04	13.62	29.24	40.00	10.76	173	356	Vertical
2	55.22	42.91	-27.81	13.13	28.23	40.00	11.77	187	21	Vertical
3	92.3225	44.86	-27.60	9.60	26.87	43.50	16.63	142	120	Vertical
4	119.9675	35.45	-27.71	12.24	19.98	43.50	23.52	203	151	Vertical
5	155.615	35.12	-27.09	14.00	22.03	43.50	21.47	245	303	Vertical
6	323.91	31.28	-26.15	13.29	18.43	46.00	27.57	216	51	Vertical

Remark:

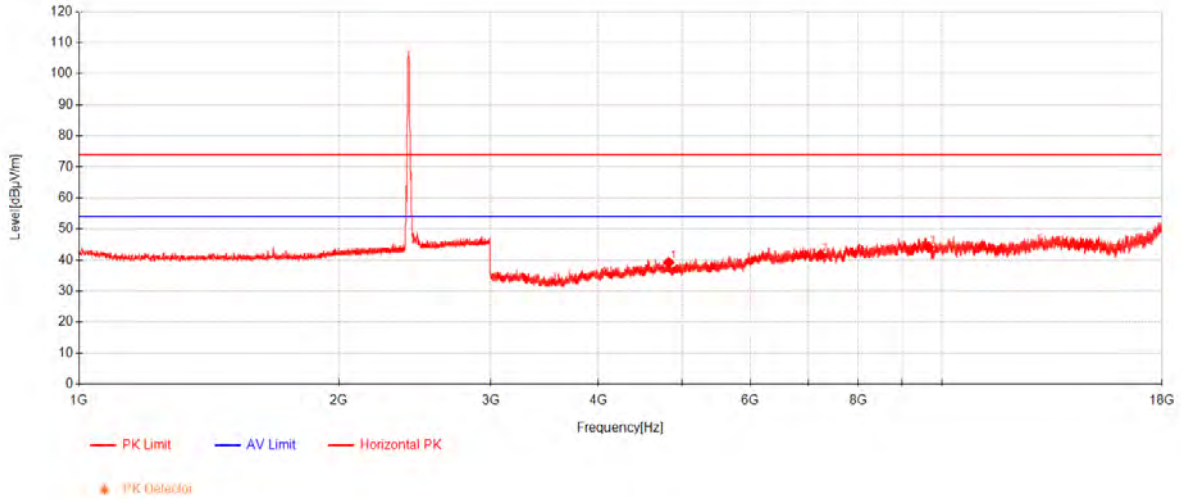
- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
 Value = Reading(dBµV) + AF(dB/m) + Factor(dB):
 AF = Antenna Factor(dB/m)
 Factor = Cable Factor(dB) - Preamplifier gain(dB)
 Margin = Limit(dBµV/m) – Value(dBµV/m)
- All channels have been tested, but only the worst case data displayed in this report.



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Transmitter emission Above 1GHz

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	51.55	32.18	-44.55	39.18	74.00	34.82	196	115	Horizontal
2	7236	47.44	36.34	-42.08	41.70	74.00	32.30	365	92	Horizontal
3	9648	43.45	38.54	-37.82	44.16	74.00	29.84	241	237	Horizontal

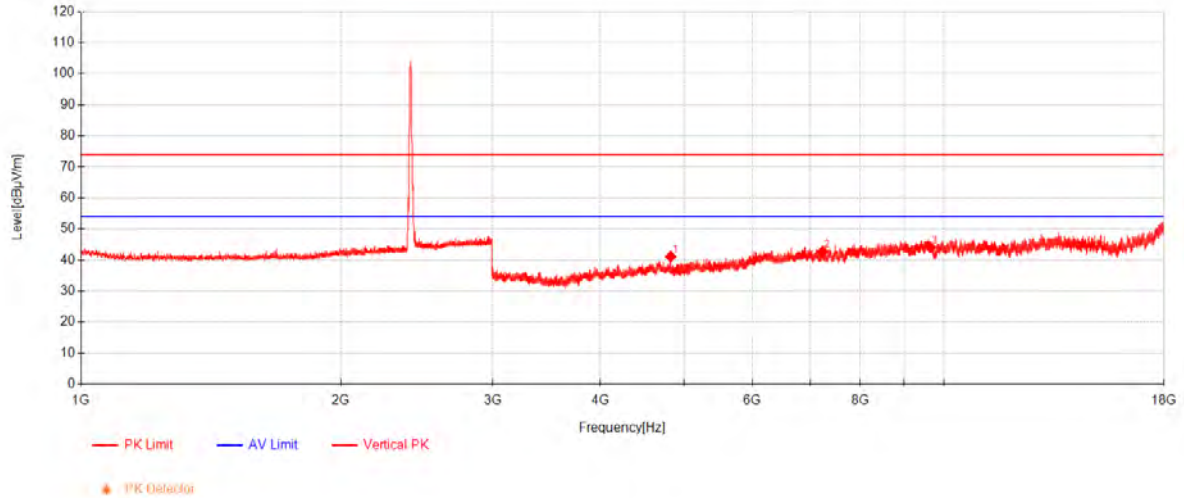


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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	53.48	32.18	-44.55	41.11	74.00	32.89	162	178	Vertical
2	7236	48.46	36.34	-42.08	42.72	74.00	31.28	254	157	Vertical
3	9648	43.36	38.54	-37.82	44.07	74.00	29.93	142	198	Vertical

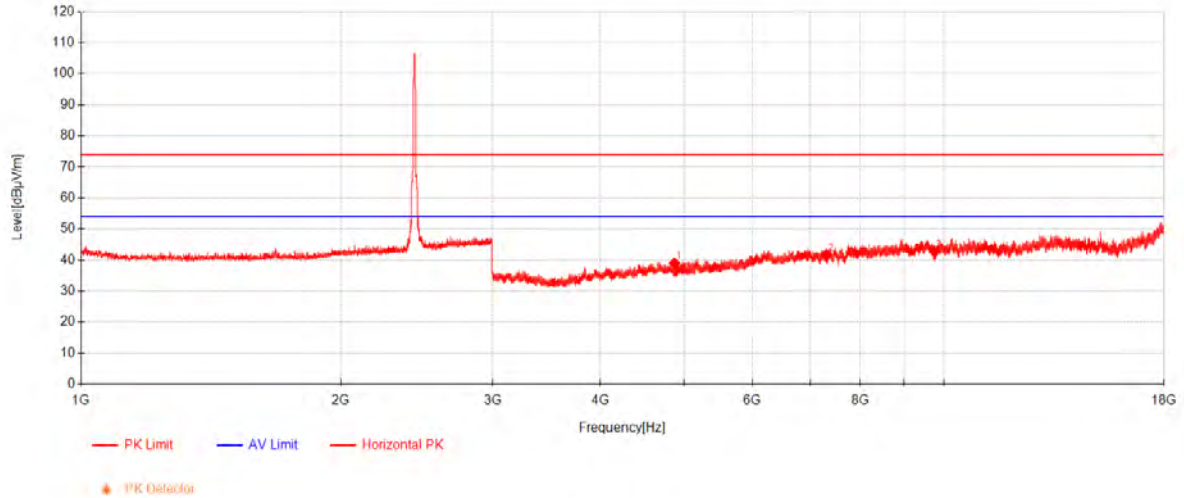


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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	51.41	32.30	-44.77	38.94	74.00	35.06	142	279	Horizontal
2	7311	47.14	36.39	-41.78	41.74	74.00	32.26	296	341	Horizontal
3	9748	41.77	38.53	-37.51	42.78	74.00	31.22	224	148	Horizontal

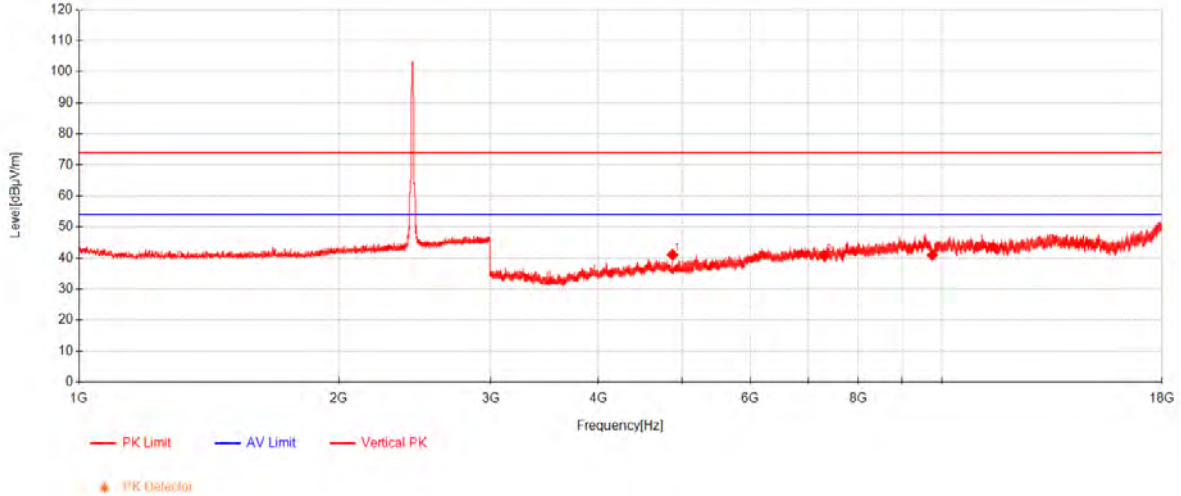


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802.11b_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	53.51	32.30	-44.77	41.04	74.00	32.96	102	157	Vertical
2	7311	46.06	36.39	-41.78	40.66	74.00	33.34	142	341	Vertical
3	9748	39.92	38.53	-37.51	40.93	74.00	33.07	296	319	Vertical

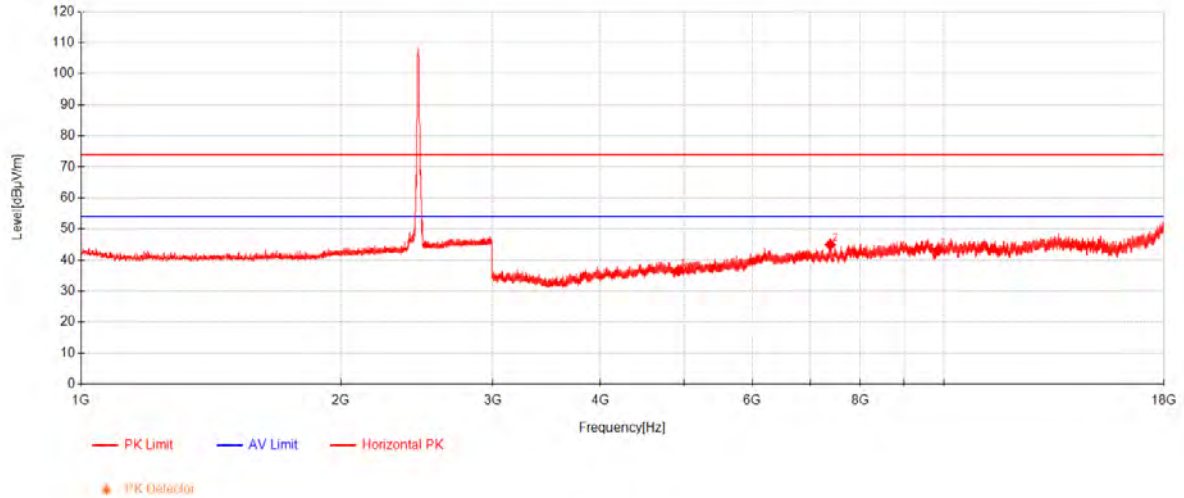


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	49.00	32.42	-44.89	36.52	74.00	37.48	142	213	Horizontal
2	7386	50.48	36.43	-41.95	44.96	74.00	29.04	296	197	Horizontal
3	9848	42.02	38.52	-37.38	43.16	74.00	30.84	243	319	Horizontal

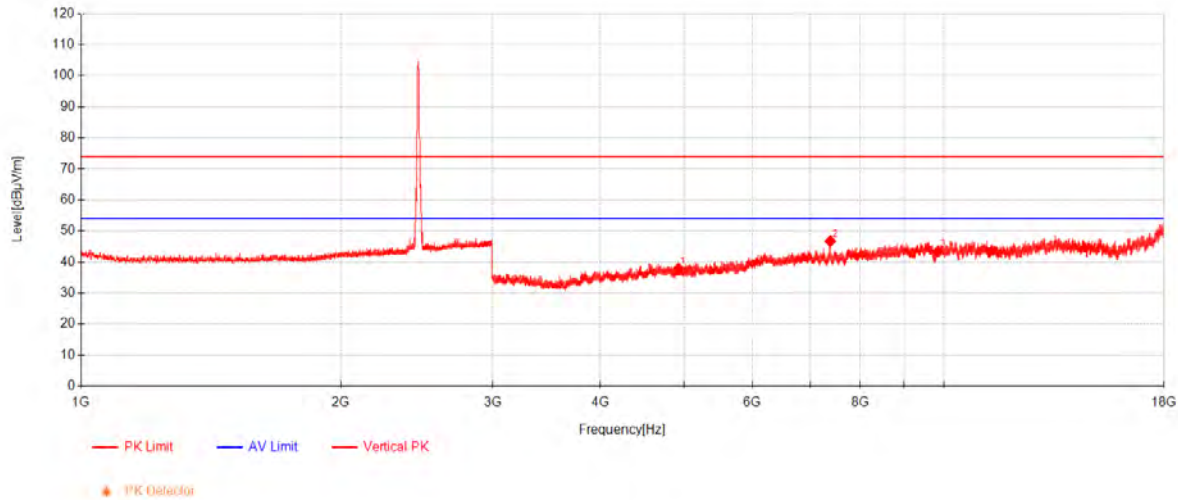


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.37	32.42	-44.89	37.89	74.00	36.11	196	278	Vertical
2	7386	52.27	36.43	-41.95	46.75	74.00	27.25	365	155	Vertical
3	9848	42.34	38.52	-37.38	43.48	74.00	30.52	284	357	Vertical

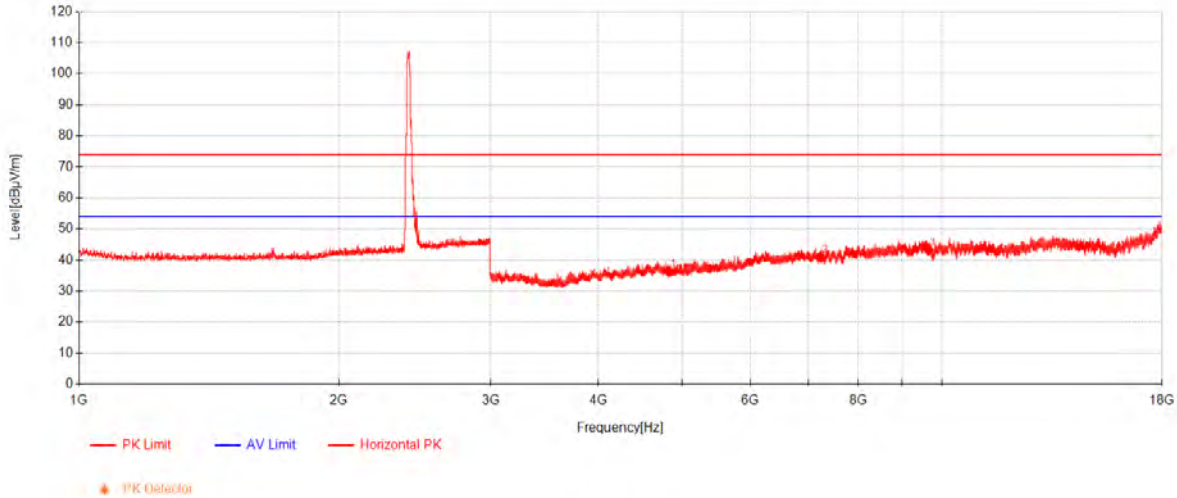


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802.11g_Channel 01



Data List										
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1	4824	48.63	32.18	-44.55	36.26	74.00	37.74	196	280	Horizontal
2	7236	46.74	36.34	-42.08	41.00	74.00	33.00	365	300	Horizontal
3	9648	42.55	38.54	-37.82	43.26	74.00	30.74	284	3	Horizontal

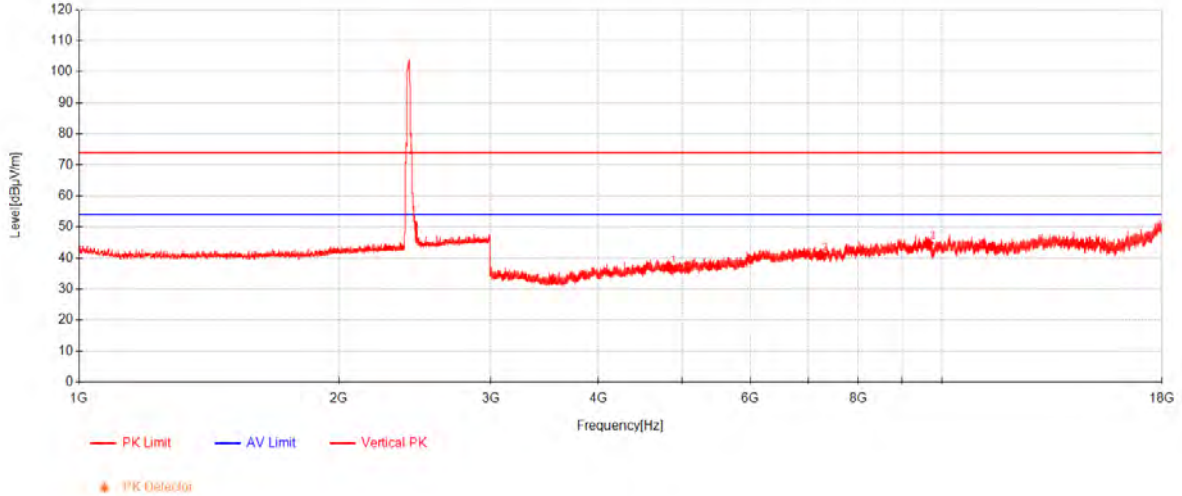


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.53	32.18	-44.55	37.16	74.00	36.84	324	1	Vertical
2	7236	46.78	36.34	-42.08	41.04	74.00	32.96	268	258	Vertical
3	9648	44.02	38.54	-37.82	44.73	74.00	29.27	296	236	Vertical

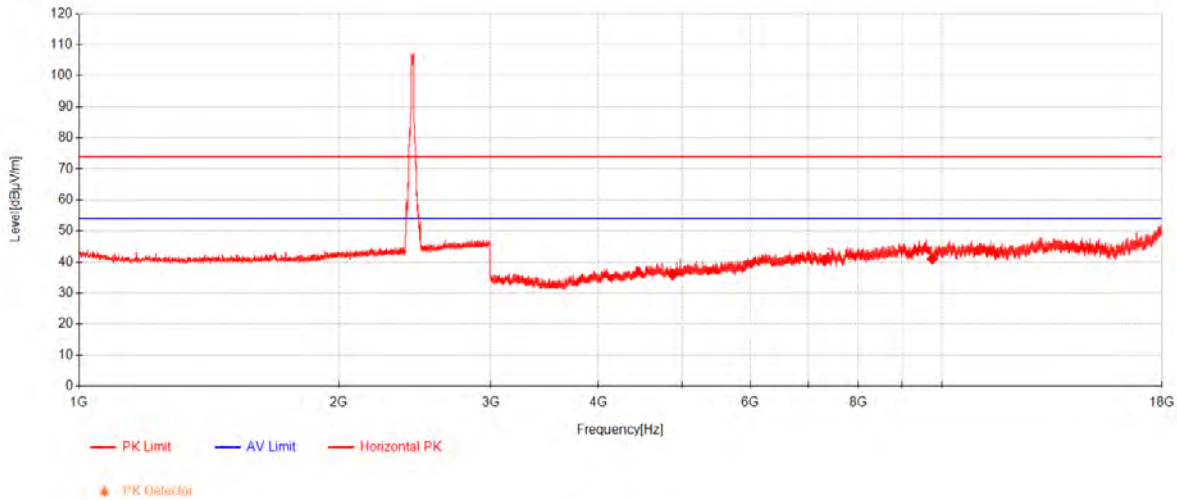


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802.11g_Channel 06



Data List										
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1	4874	48.45	32.30	-44.77	35.98	74.00	38.02	196	136	Horizontal
2	7311	45.96	36.39	-41.78	40.56	74.00	33.44	365	341	Horizontal
3	9748	40.06	38.53	-37.51	41.07	74.00	32.93	241	260	Horizontal

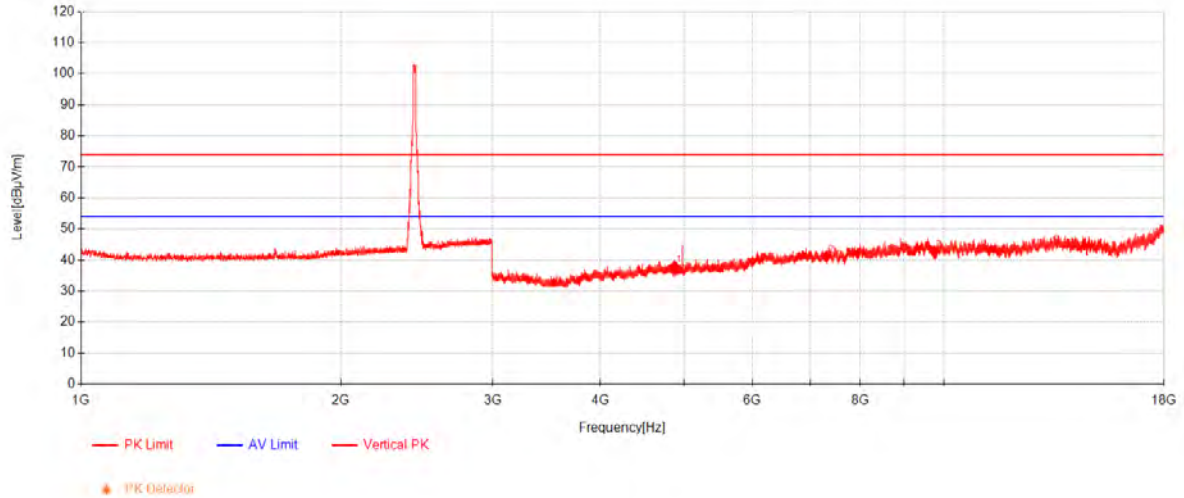


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802.11g_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	50.40	32.30	-44.77	37.93	74.00	36.07	196	219	Vertical
2	7311	46.58	36.39	-41.78	41.18	74.00	32.82	254	278	Vertical
3	9748	41.77	38.53	-37.51	42.78	74.00	31.22	142	0	Vertical

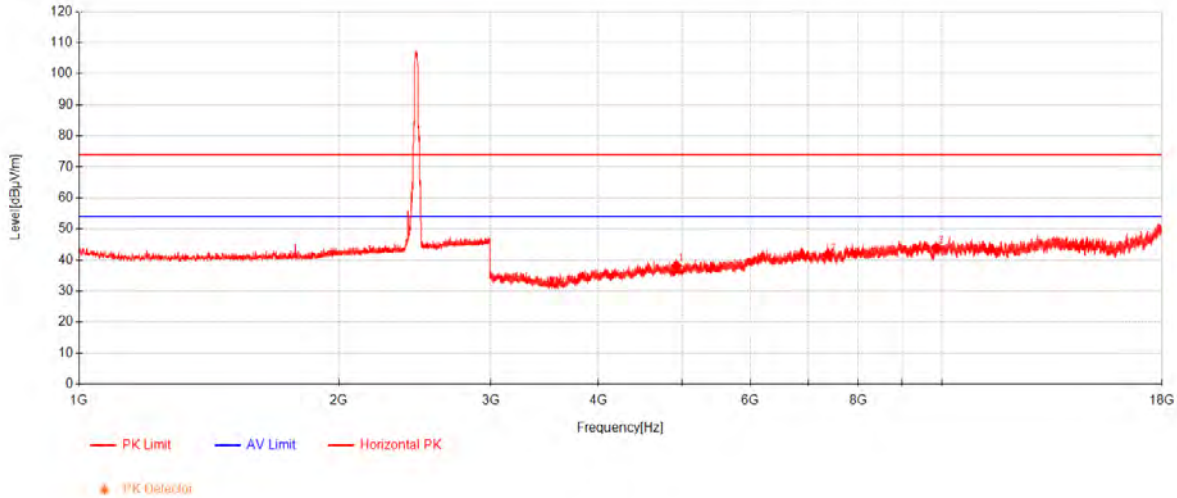


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	50.55	32.42	-44.89	38.07	74.00	35.93	196	13	Horizontal
2	7386	47.30	36.43	-41.95	41.78	74.00	32.22	285	50	Horizontal
3	9848	42.81	38.52	-37.38	43.95	74.00	30.05	241	133	Horizontal

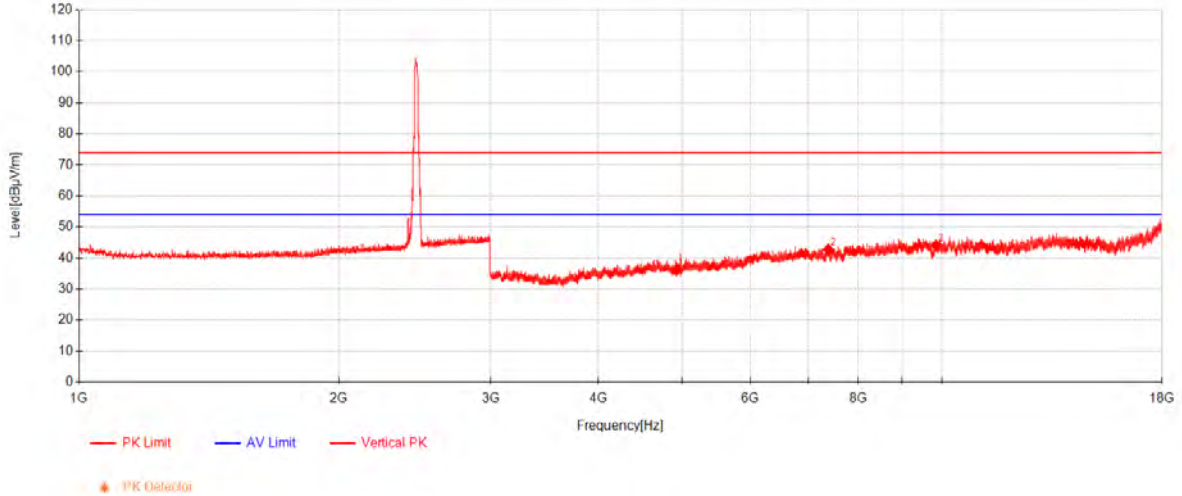


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802.11g_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.54	32.42	-44.89	36.06	74.00	37.94	296	257	Vertical
2	7386	48.22	36.43	-41.95	42.70	74.00	31.30	241	278	Vertical
3	9848	43.01	38.52	-37.38	44.15	74.00	29.85	175	2	Vertical

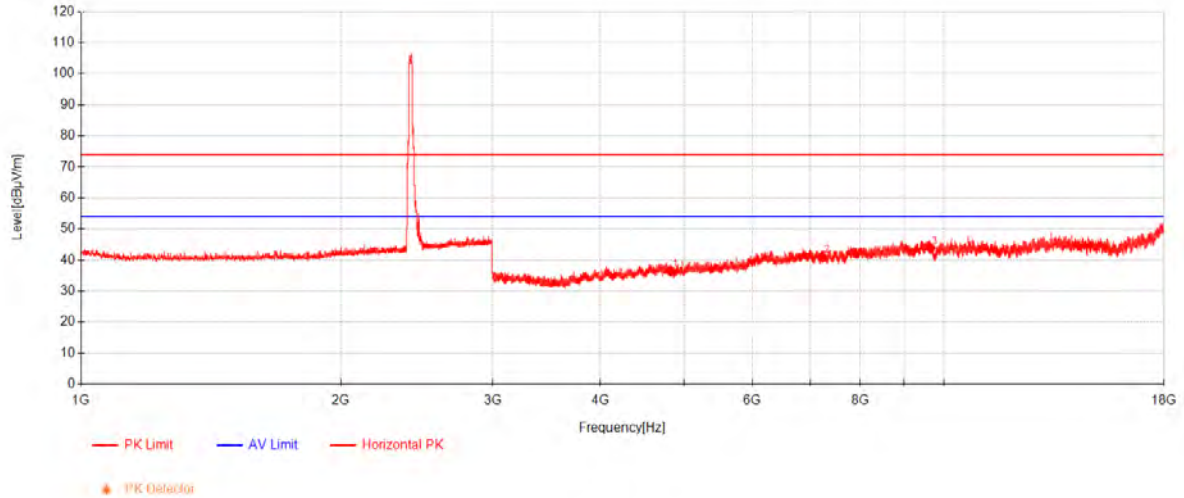


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802.11n20_Channel 01



Data List										
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1	4824	48.79	32.18	-44.55	36.42	74.00	37.58	296	212	Horizontal
2	7236	46.74	36.34	-42.08	41.00	74.00	33.00	284	136	Horizontal
3	9648	43.15	38.54	-37.82	43.86	74.00	30.14	142	254	Horizontal

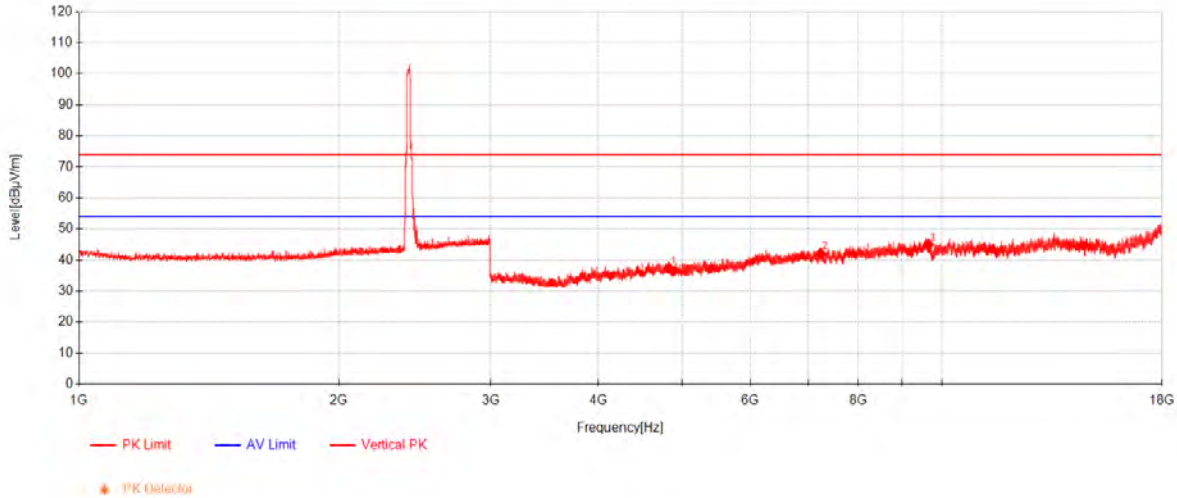


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802.11n20_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4824	49.77	32.18	-44.55	37.40	74.00	36.60	362	48	Vertical
2	7236	47.85	36.34	-42.08	42.11	74.00	31.89	284	0	Vertical
3	9648	44.27	38.54	-37.82	44.98	74.00	29.02	145	300	Vertical

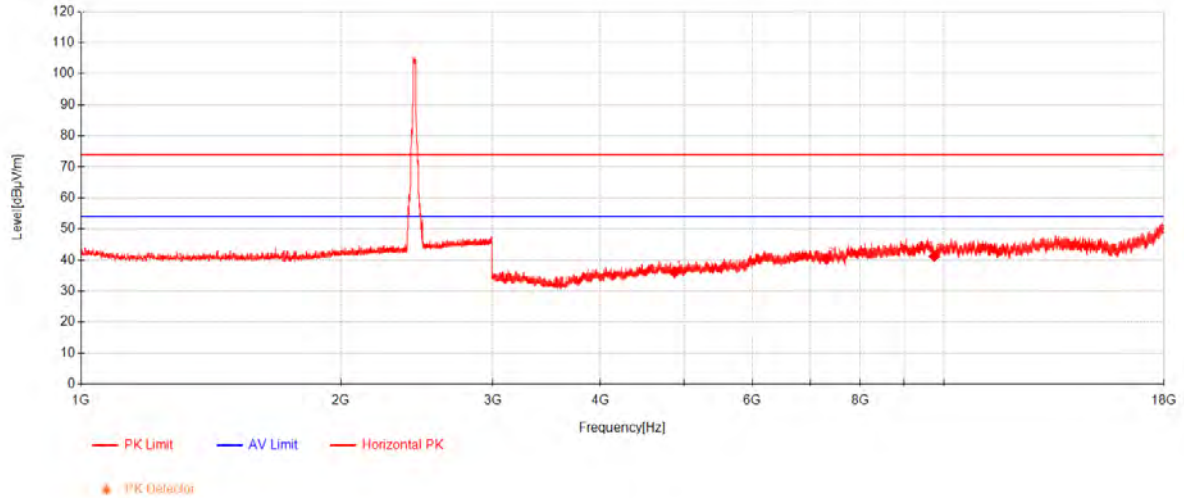


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802.11n20_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.56	32.30	-44.77	36.09	74.00	37.91	296	170	Horizontal
2	7311	45.77	36.39	-41.78	40.37	74.00	33.63	284	296	Horizontal
3	9748	40.26	38.53	-37.51	41.27	74.00	32.73	145	1	Horizontal

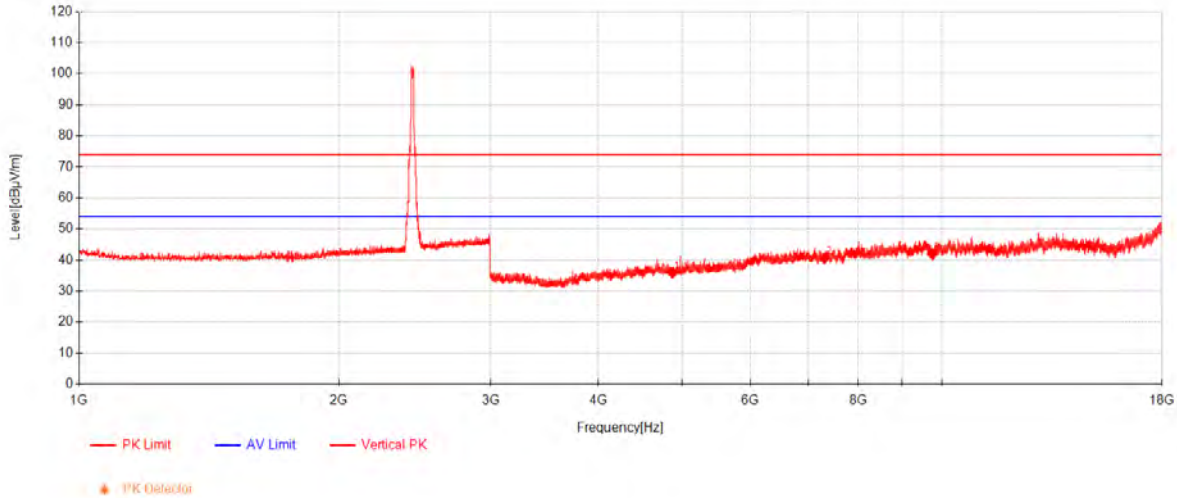


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802.11n20_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.36	32.30	-44.77	35.89	74.00	38.11	362	93	Vertical
2	7311	45.95	36.39	-41.78	40.55	74.00	33.45	284	14	Vertical
3	9748	41.01	38.53	-37.51	42.02	74.00	31.98	146	300	Vertical

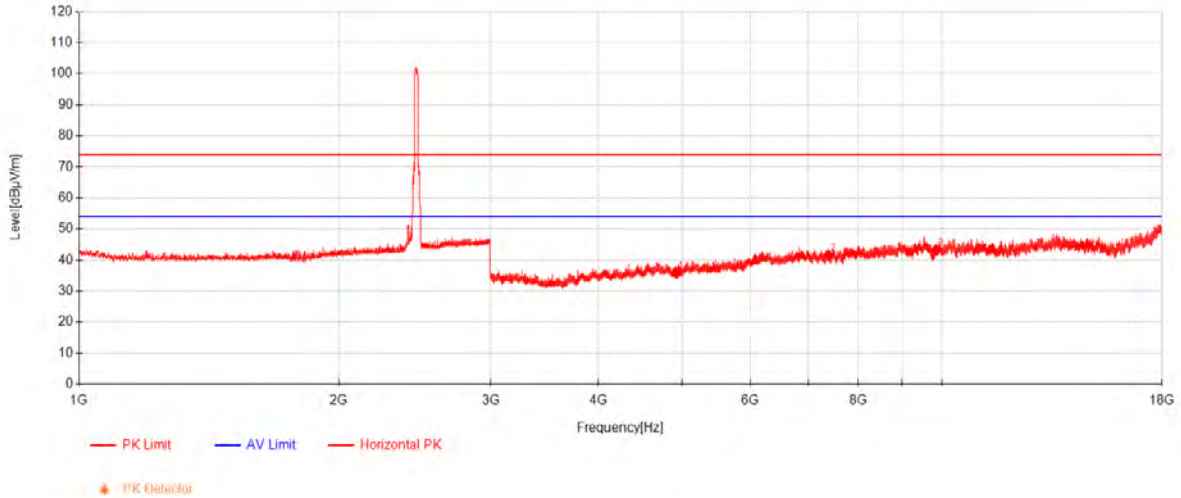


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.22	32.42	-44.89	35.74	74.00	38.26	302	1	Horizontal
2	7386	47.10	36.43	-41.95	41.58	74.00	32.42	185	111	Horizontal
3	9848	42.15	38.52	-37.38	43.29	74.00	30.71	264	3	Horizontal

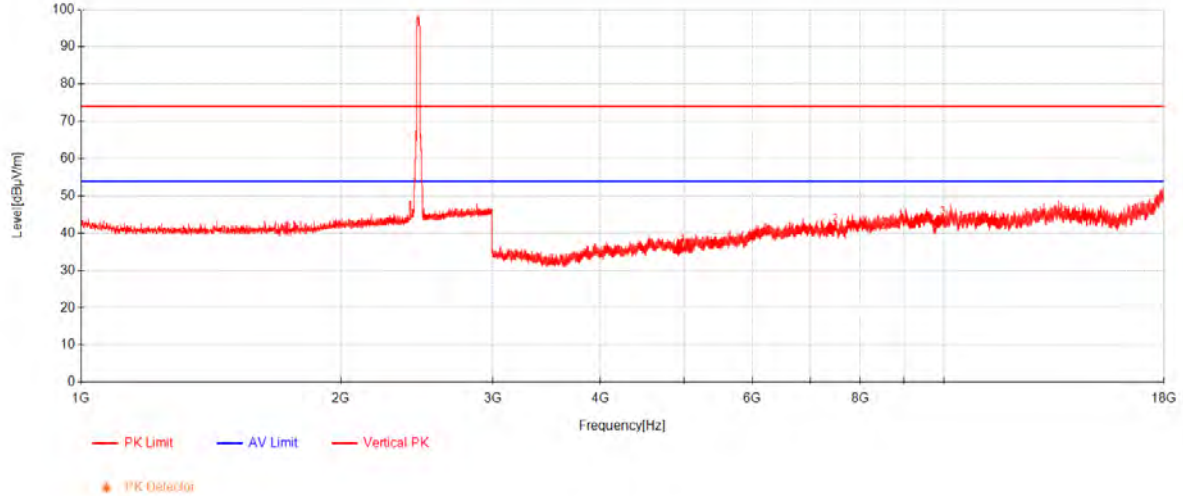


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4924	48.15	32.42	-44.89	35.67	74.00	38.33	296	264	Vertical
2	7386	46.85	36.43	-41.95	41.33	74.00	32.67	284	119	Vertical
3	9848	41.99	38.52	-37.38	43.13	74.00	30.87	142	216	Vertical

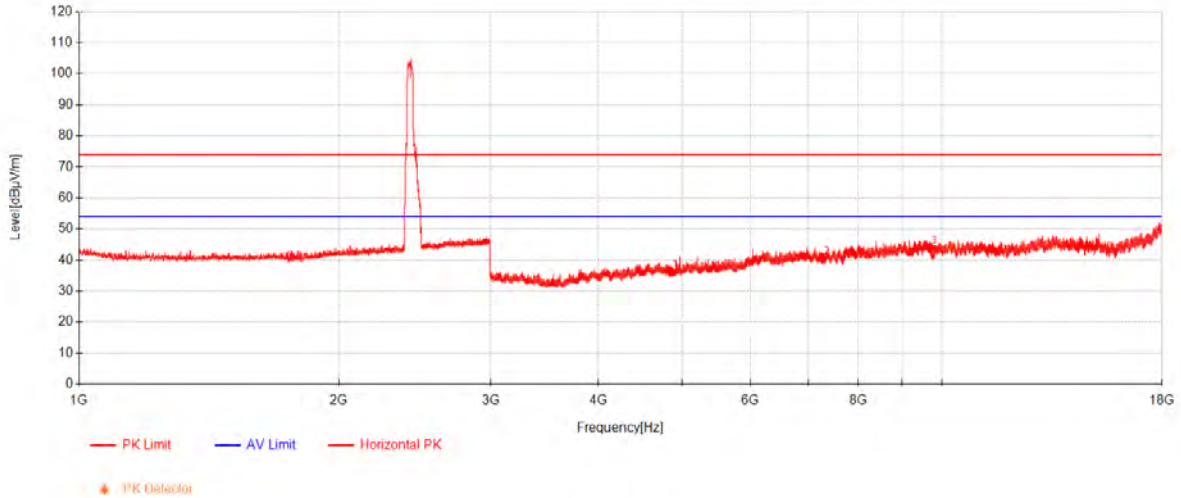


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	48.76	32.23	-44.63	36.35	74.00	37.65	296	133	Horizontal
2	7266	46.23	36.36	-41.93	40.66	74.00	33.34	254	133	Horizontal
3	9688	43.04	38.53	-37.59	43.98	74.00	30.02	142	357	Horizontal

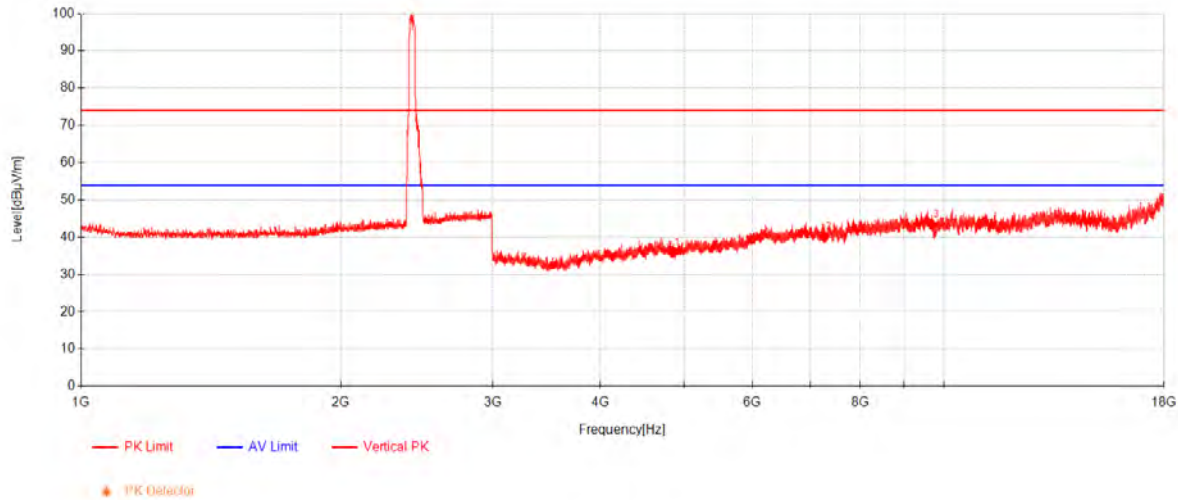


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4844	48.38	32.23	-44.63	35.97	74.00	38.03	296	114	Vertical
2	7266	45.65	36.36	-41.93	40.08	74.00	33.92	241	1	Vertical
3	9688	42.43	38.53	-37.59	43.37	74.00	30.63	148	212	Vertical

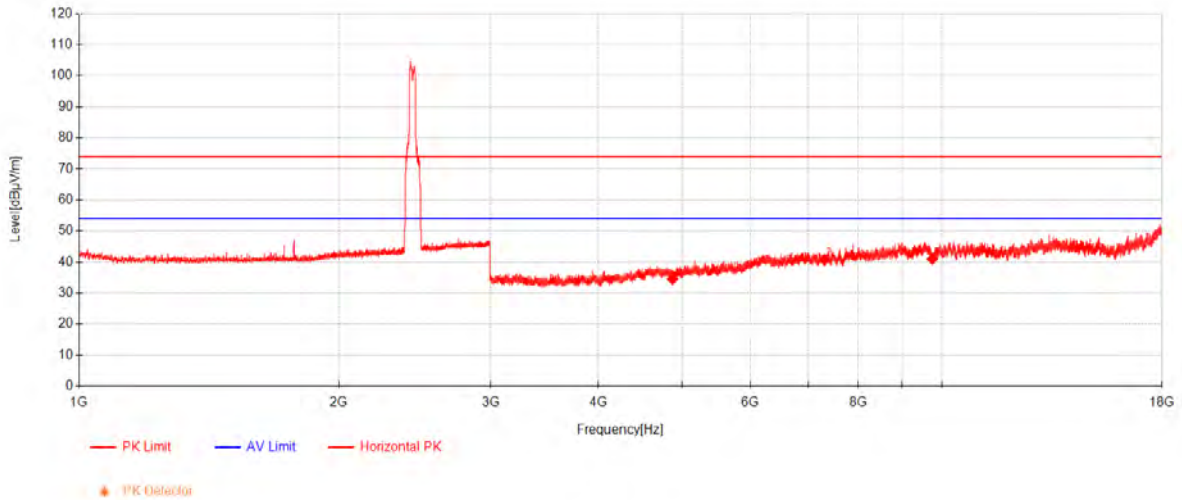


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802.11n40_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	47.03	32.30	-44.77	34.56	74.00	39.44	296	175	Horizontal
2	7311	46.12	36.39	-41.78	40.72	74.00	33.28	284	28	Horizontal
3	9748	39.97	38.53	-37.51	40.98	74.00	33.02	142	258	Horizontal

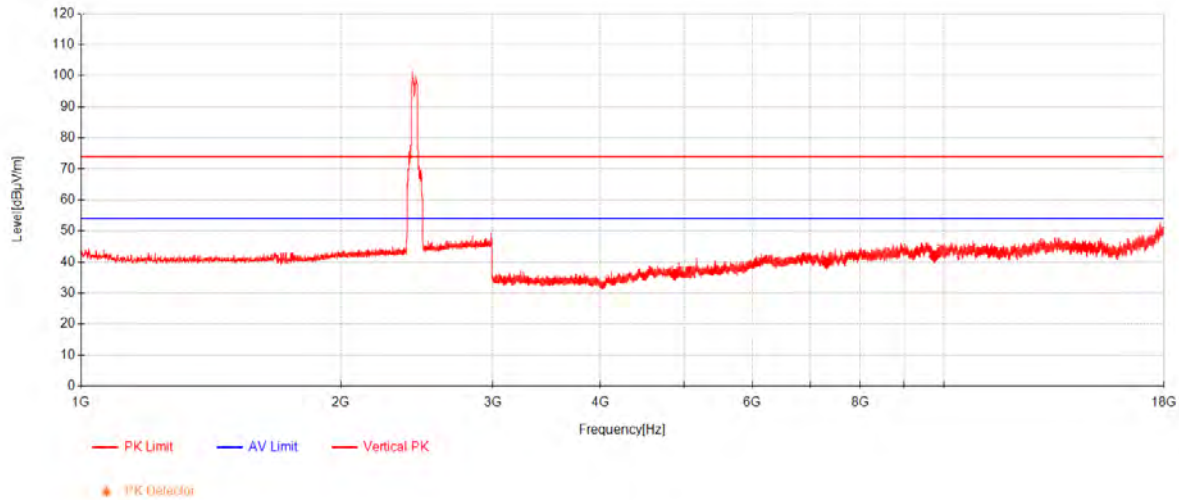


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802.11n40_Channel 06



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4874	48.47	32.30	-44.77	36.00	74.00	38.00	396	339	Vertical
2	7311	45.04	36.39	-41.78	39.64	74.00	34.36	284	357	Vertical
3	9748	40.82	38.53	-37.51	41.83	74.00	32.17	175	88	Vertical

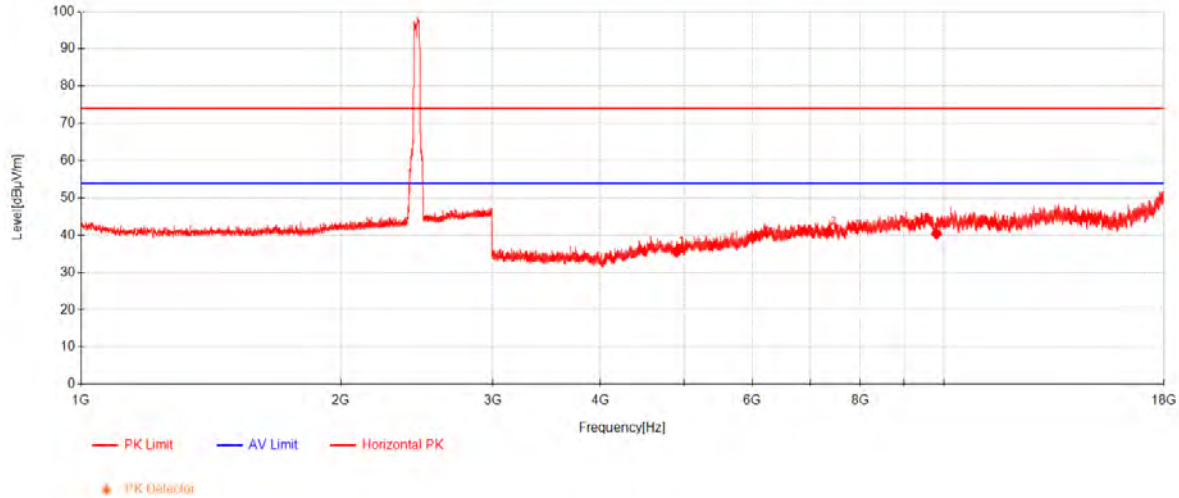


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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	48.16	32.37	-44.88	35.65	74.00	38.35	296	93	Horizontal
2	7356	46.50	36.41	-41.88	41.03	74.00	32.97	365	320	Horizontal
3	9808	39.36	38.52	-37.48	40.40	74.00	33.60	205	70	Horizontal

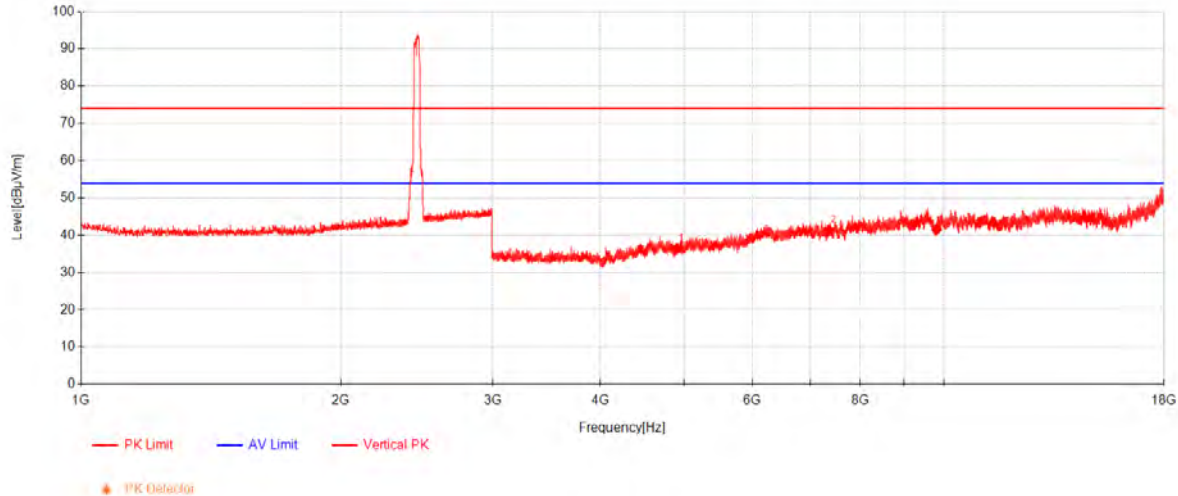


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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4904	48.93	32.37	-44.88	36.42	74.00	37.58	296	1	Vertical
2	7356	46.88	36.41	-41.88	41.41	74.00	32.59	284	215	Vertical
3	9808	40.48	38.52	-37.48	41.52	74.00	32.48	175	87	Vertical

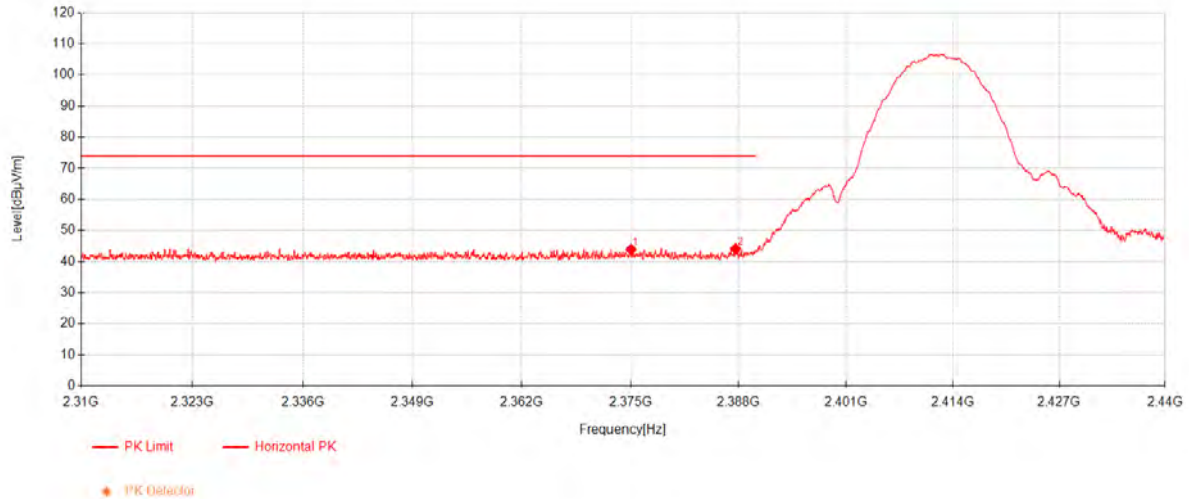
Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain.
 The basic equation with a sample calculation is as follows:
 $Level = Reading(dB\mu V) + AF(dB/m) + Factor(dB)$
 $AF = Antenna\ Factor(dB/m)$
 $Factor = Cable\ Factor(dB) - Preamplifier\ gain(dB)$
 $Margin = Limit(dB\mu V/m) - Level(dB\mu V/m)$
- 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".



Restricted bands around fundamental frequency

802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.065	40.67	27.65	-24.45	43.87	74.00	30.13	132	278	Horizontal
2	2387.6425	40.86	27.68	-24.43	44.11	74.00	29.89	132	278	Horizontal



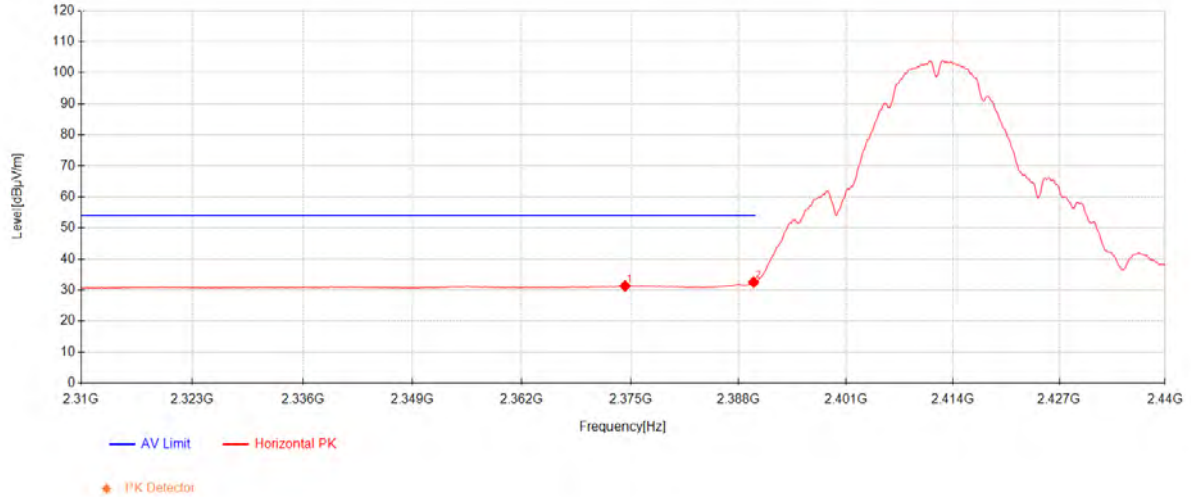
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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.35	28.12	27.65	-24.46	31.31	54.00	22.69	132	278	Horizontal
2	2389.82	29.29	27.68	-24.42	32.55	54.00	21.45	132	278	Horizontal



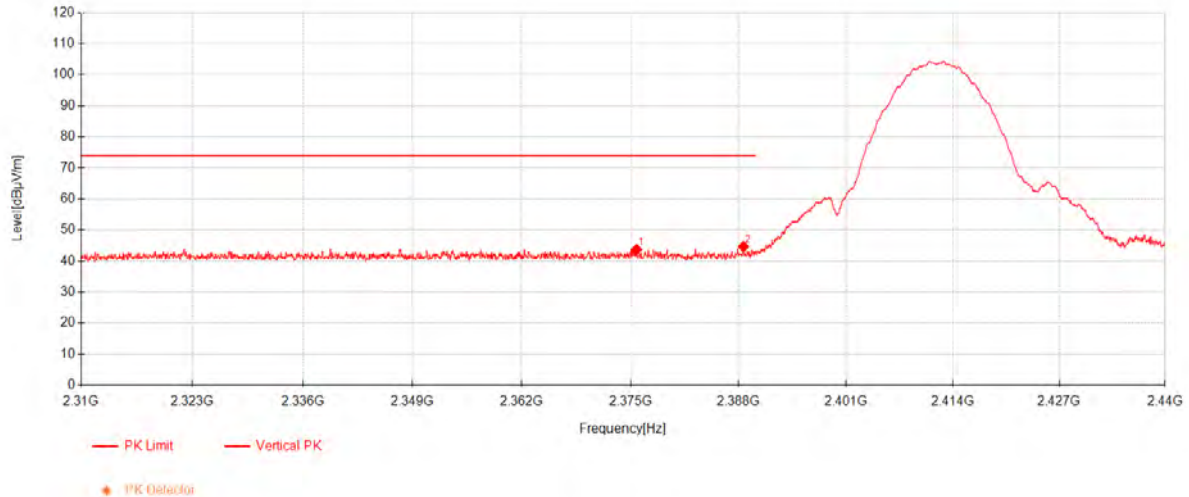
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802.11b_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2375.715	40.49	27.65	-24.45	43.69	74.00	30.31	101	75	Vertical
2	2388.585	41.41	27.68	-24.43	44.66	74.00	29.34	101	75	Vertical

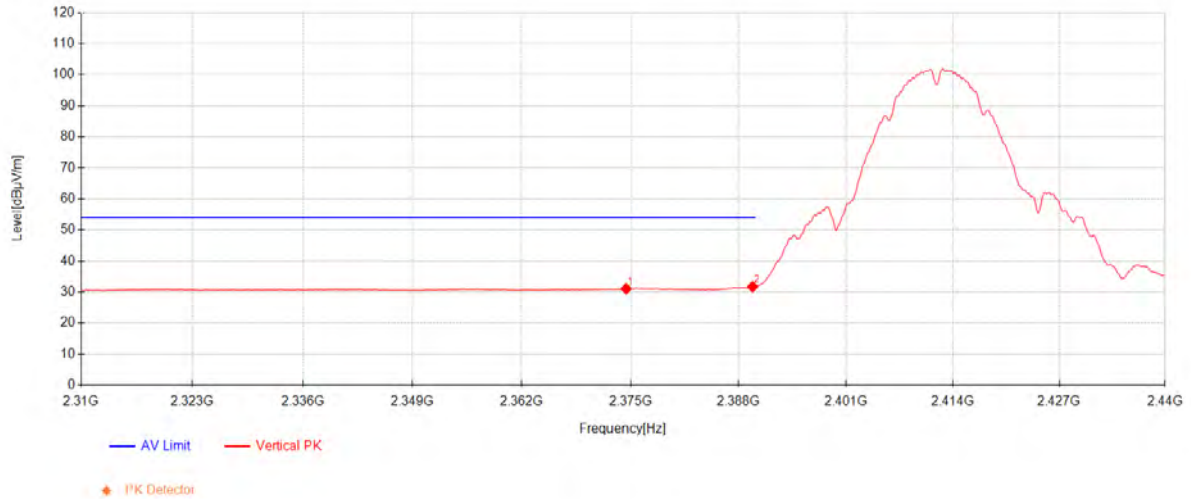


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802.11b_Channel 01



Data List										
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1	2374.48	27.89	27.65	-24.46	31.08	54.00	22.92	101	75	Vertical
2	2389.69	28.46	27.68	-24.42	31.72	54.00	22.28	101	75	Vertical



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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	49.61	27.87	-23.96	53.52	74.00	20.48	191	183	Horizontal
2	2486.38	49.06	27.87	-23.94	52.99	74.00	21.01	191	183	Horizontal

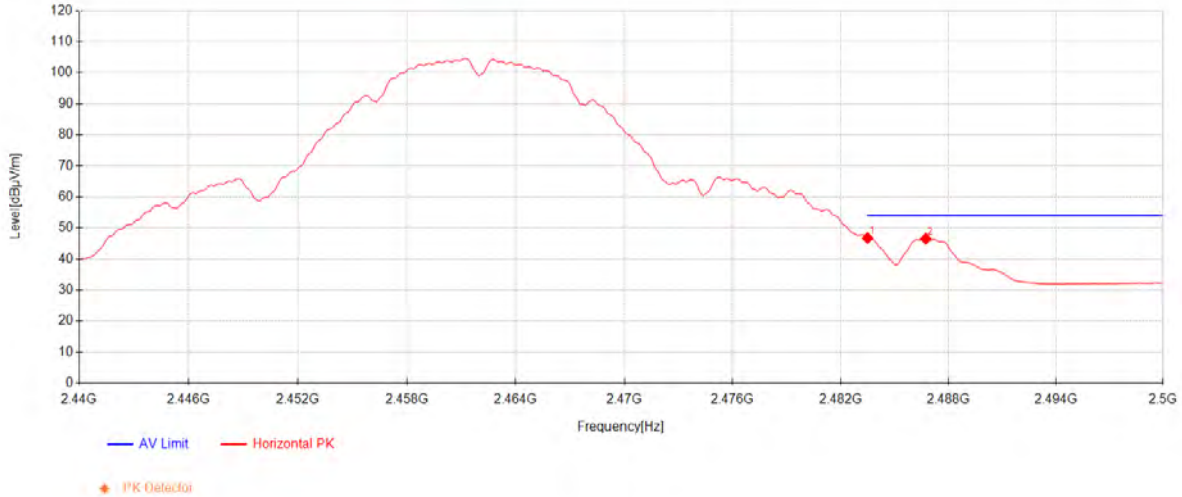


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.5	42.87	27.87	-23.96	46.78	54.00	7.22	191	183	Horizontal
2	2486.74	42.63	27.87	-23.94	46.56	54.00	7.44	191	183	Horizontal

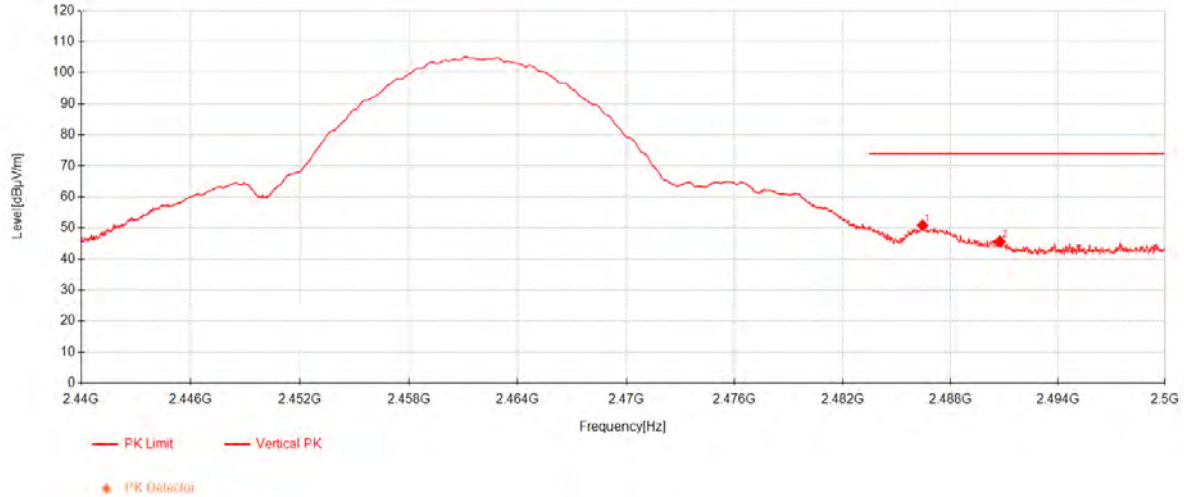


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802.11b_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.455	46.94	27.87	-23.94	50.87	74.00	23.13	102	62	Vertical
2	2490.76	41.71	27.88	-23.92	45.67	74.00	28.33	102	62	Vertical

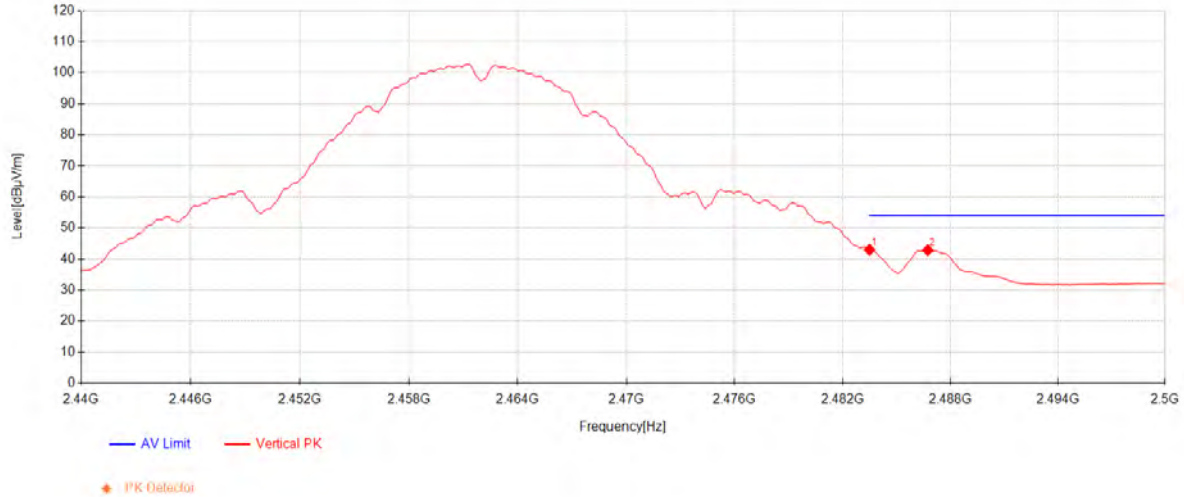


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802.11b_Channel 11



Data List										
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1	2483.5	39.09	27.87	-23.96	43.00	54.00	11.00	102	62	Vertical
2	2486.74	38.94	27.87	-23.94	42.87	54.00	11.13	102	62	Vertical

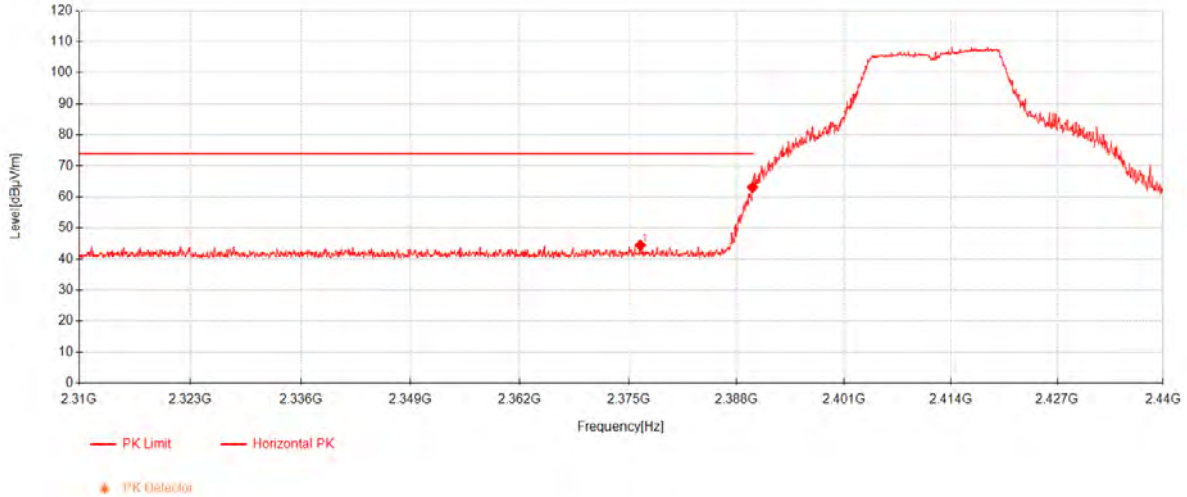


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802.11g_Channel 01



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2376.43	41.25	27.65	-24.45	44.45	74.00	29.55	159	176	Horizontal
2	2389.9175	59.82	27.68	-24.42	63.08	74.00	10.92	159	176	Horizontal

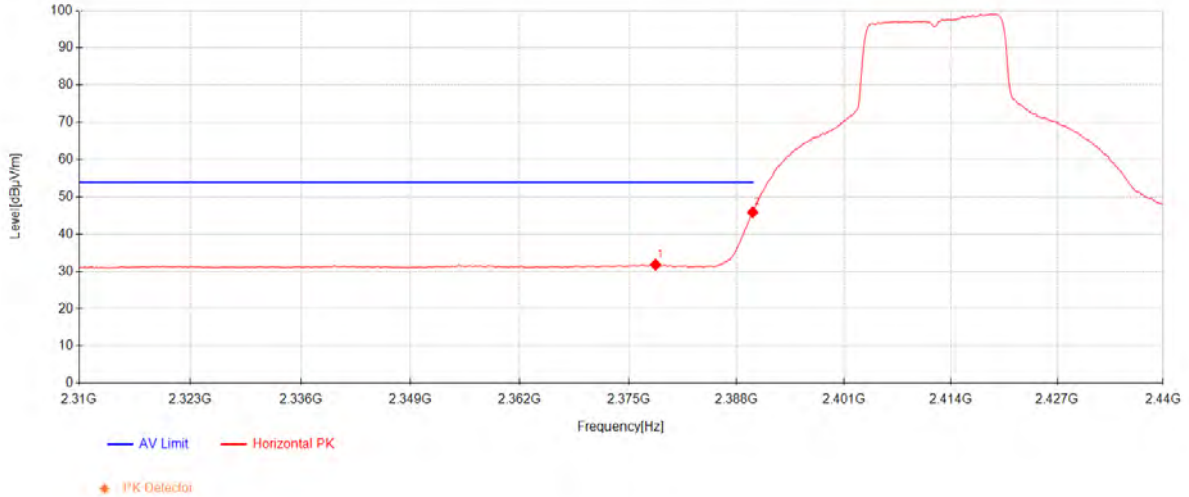


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802.11g_Channel 01



Data List										
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1	2378.25	28.60	27.66	-24.45	31.81	54.00	22.19	159	176	Horizontal
2	2389.95	42.63	27.68	-24.42	45.89	54.00	8.11	159	176	Horizontal



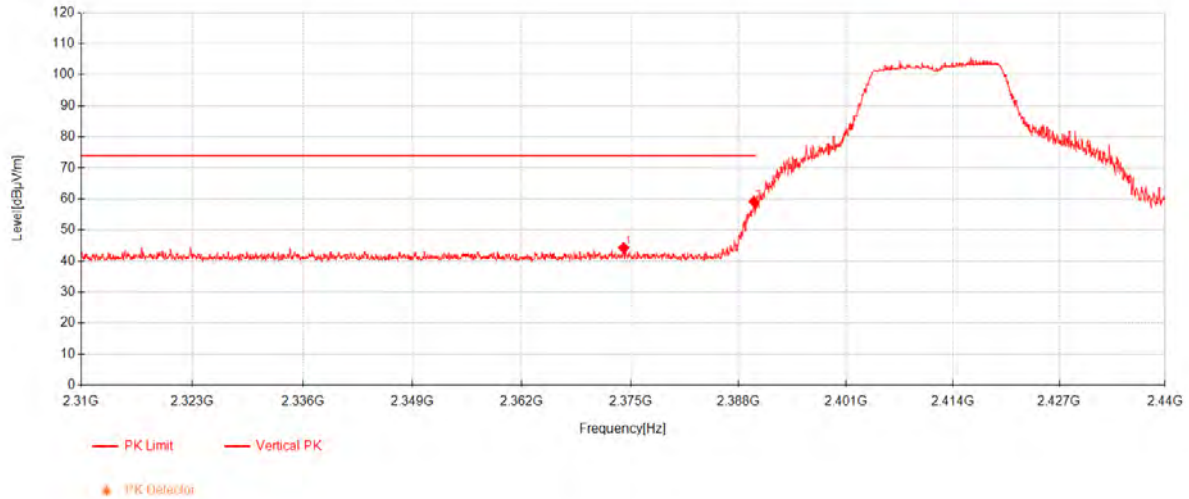
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802.11g_Channel 01



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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2374.1875	41.06	27.65	-24.46	44.25	74.00	29.75	101	72	Vertical
2	2389.8525	55.90	27.68	-24.42	59.16	74.00	14.84	101	72	Vertical

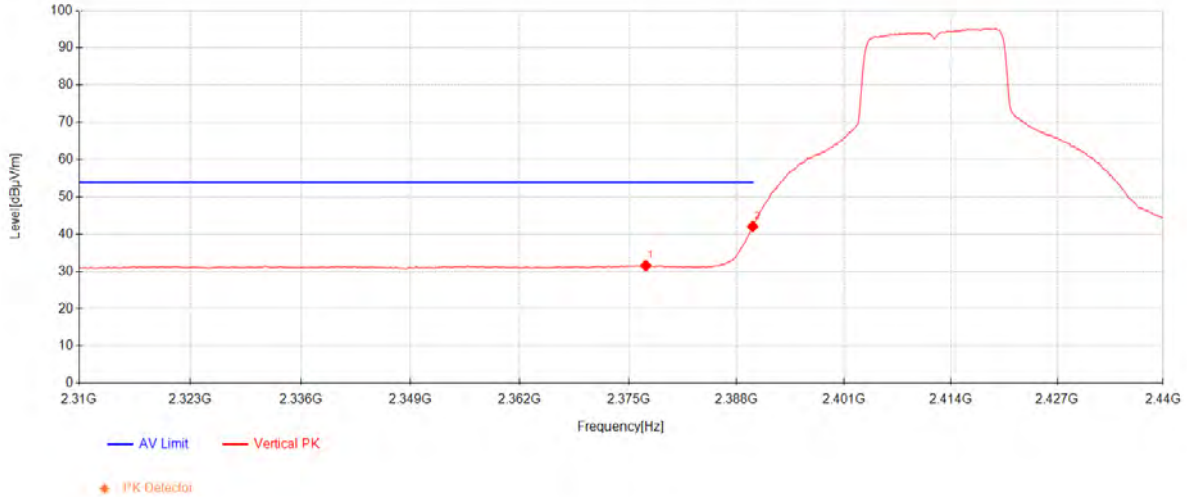


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2377.08	28.36	27.65	-24.45	31.56	54.00	22.44	101	72	Vertical
2	2389.95	38.83	27.68	-24.42	42.09	54.00	11.91	101	72	Vertical

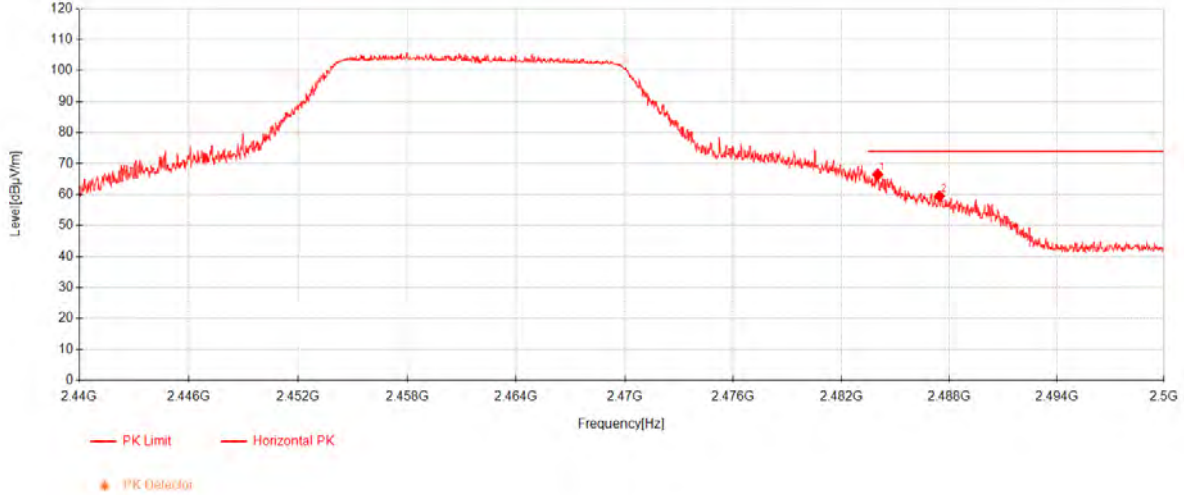


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802.11g_Channel 11



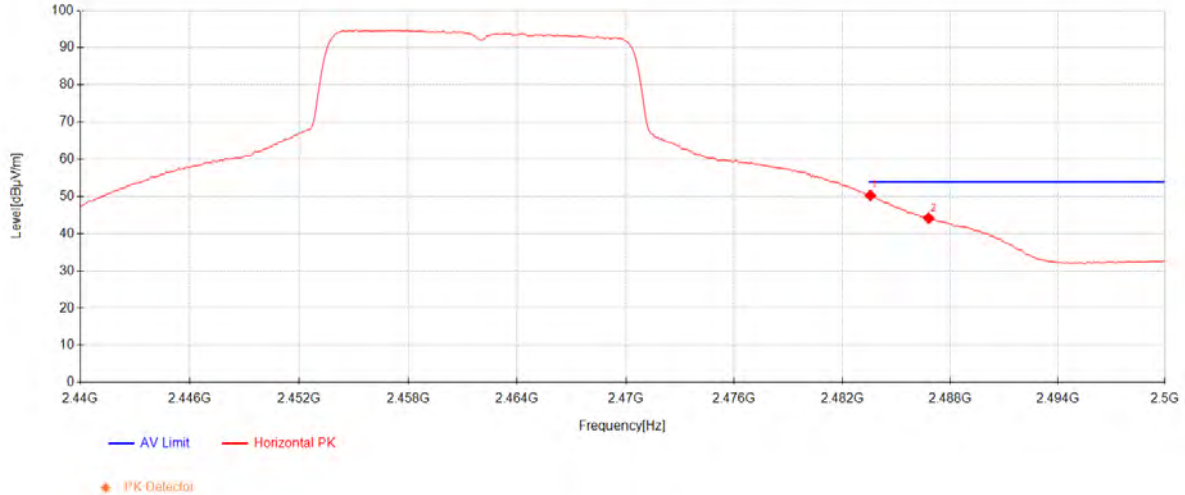
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2484.025	62.55	27.87	-23.95	66.46	74.00	7.54	221	175	Horizontal
2	2487.46	55.55	27.87	-23.94	59.49	74.00	14.51	221	175	Horizontal



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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	46.37	27.87	-23.96	50.28	54.00	3.72	221	175	Horizontal
2	2486.8	40.26	27.87	-23.94	44.19	54.00	9.81	221	175	Horizontal



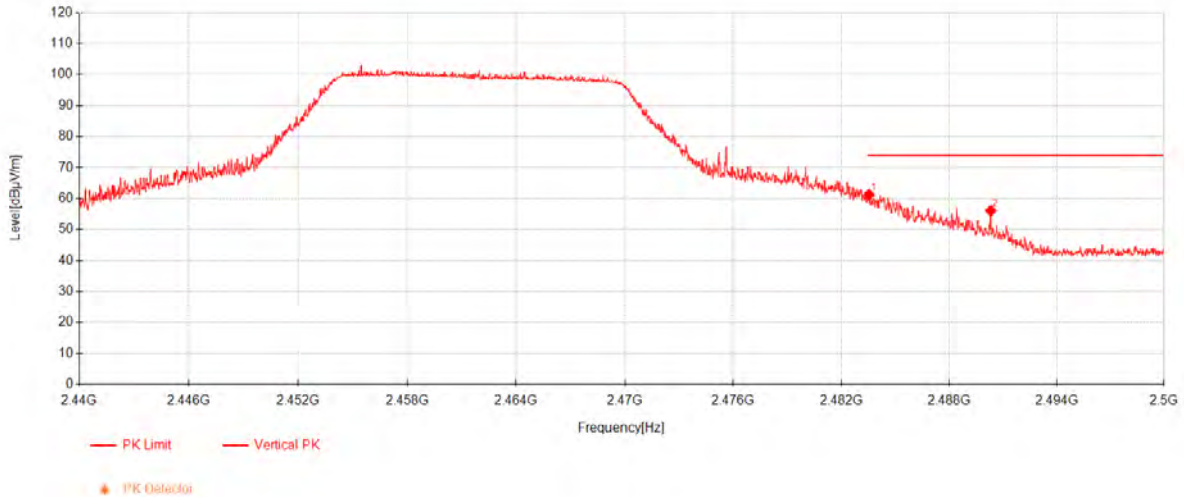
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NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.545	57.30	27.87	-23.96	61.21	74.00	12.79	102	62	Vertical
2	2490.325	52.13	27.88	-23.92	56.09	74.00	17.91	102	62	Vertical

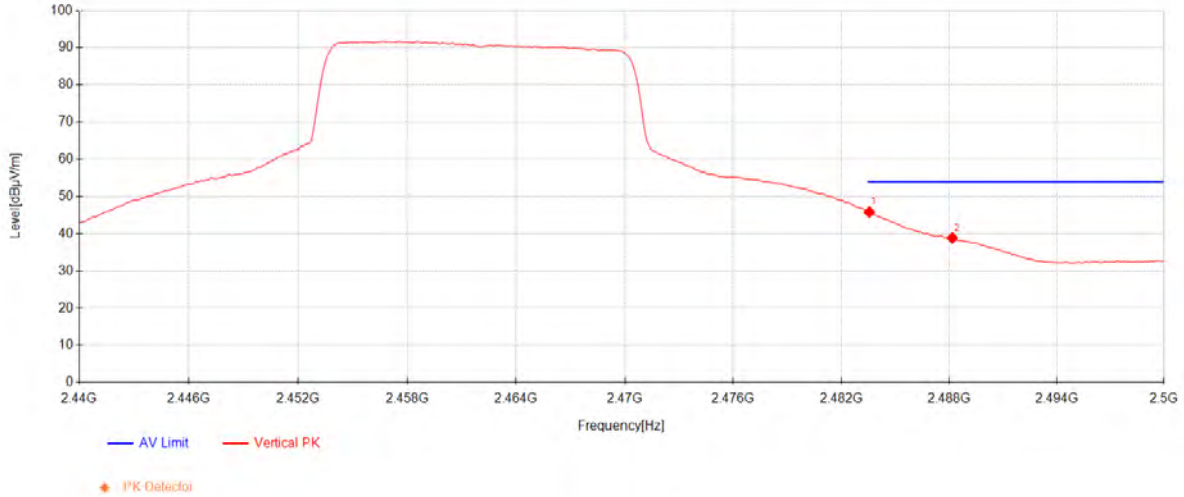


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1	2483.56	41.92	27.87	-23.96	45.83	54.00	8.17	102	62	Vertical
2	2488.18	34.91	27.88	-23.93	38.85	54.00	15.15	102	62	Vertical

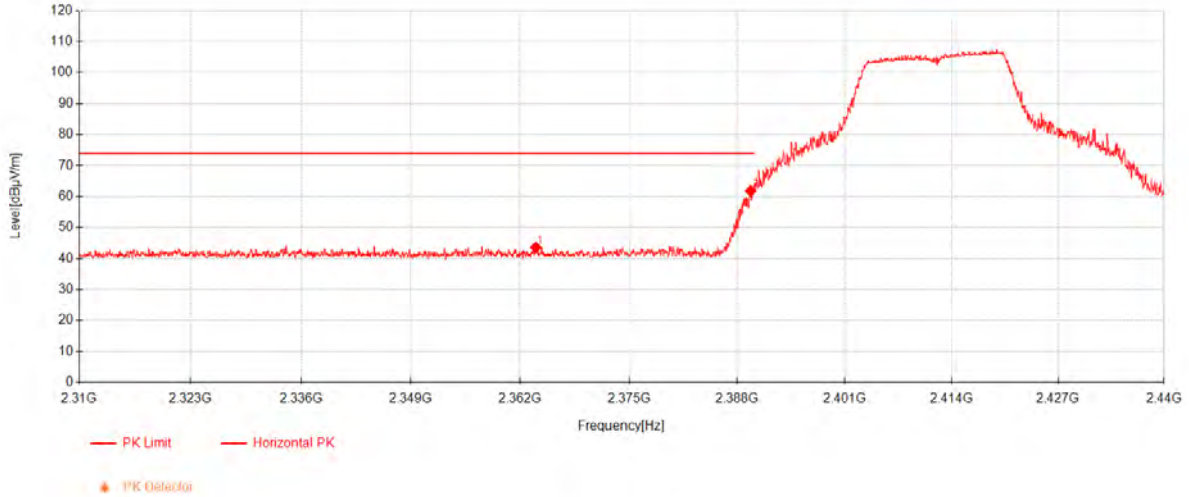


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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2363.8525	40.46	27.63	-24.48	43.61	74.00	30.39	127	181	Horizontal
2	2389.625	58.55	27.68	-24.42	61.81	74.00	12.19	127	181	Horizontal



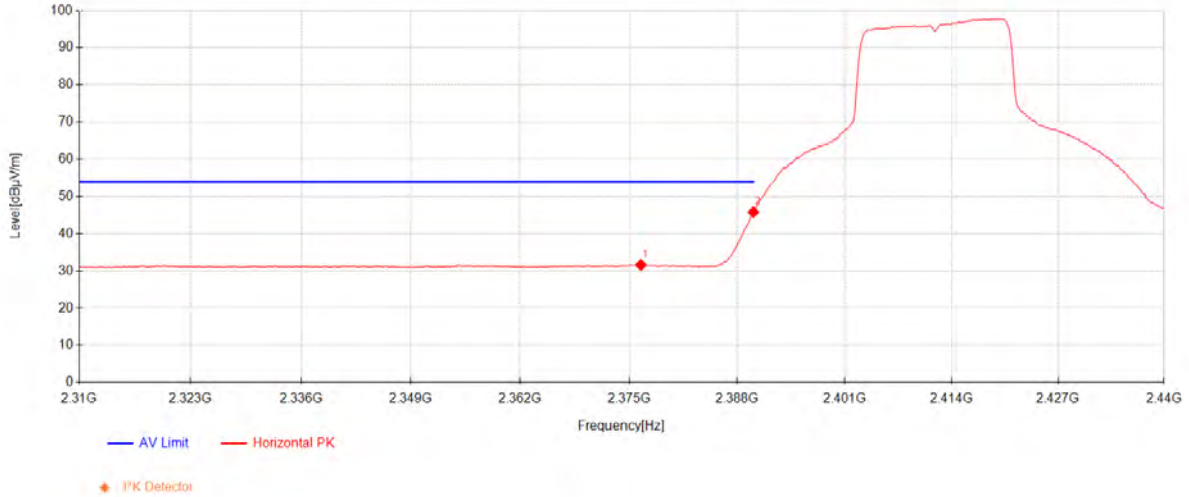
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1	2376.43	28.43	27.65	-24.45	31.63	54.00	22.37	127	181	Horizontal
2	2389.95	42.57	27.68	-24.42	45.83	54.00	8.17	127	181	Horizontal

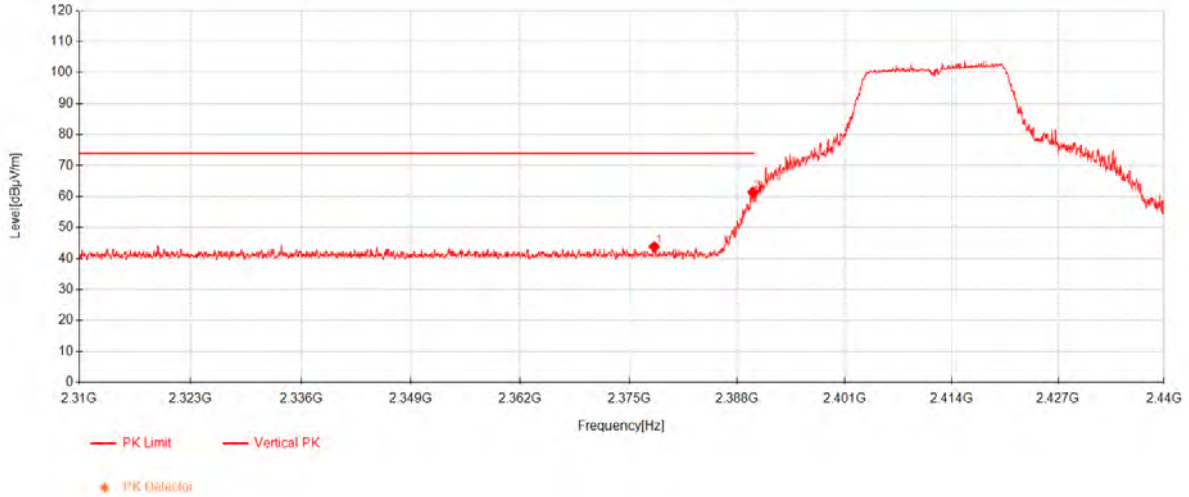


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1	2378.0225	40.59	27.66	-24.45	43.80	74.00	30.20	101	61	Vertical
2	2389.885	58.13	27.68	-24.42	61.39	74.00	12.61	101	61	Vertical



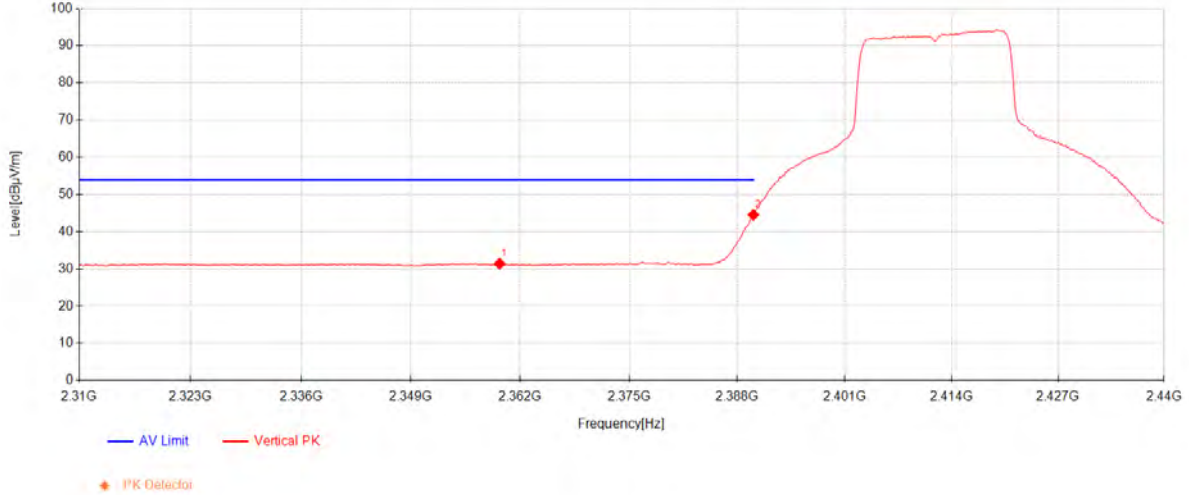
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1	2359.53	28.29	27.62	-24.49	31.42	54.00	22.58	101	61	Vertical
2	2389.95	41.31	27.68	-24.42	44.57	54.00	9.43	101	61	Vertical

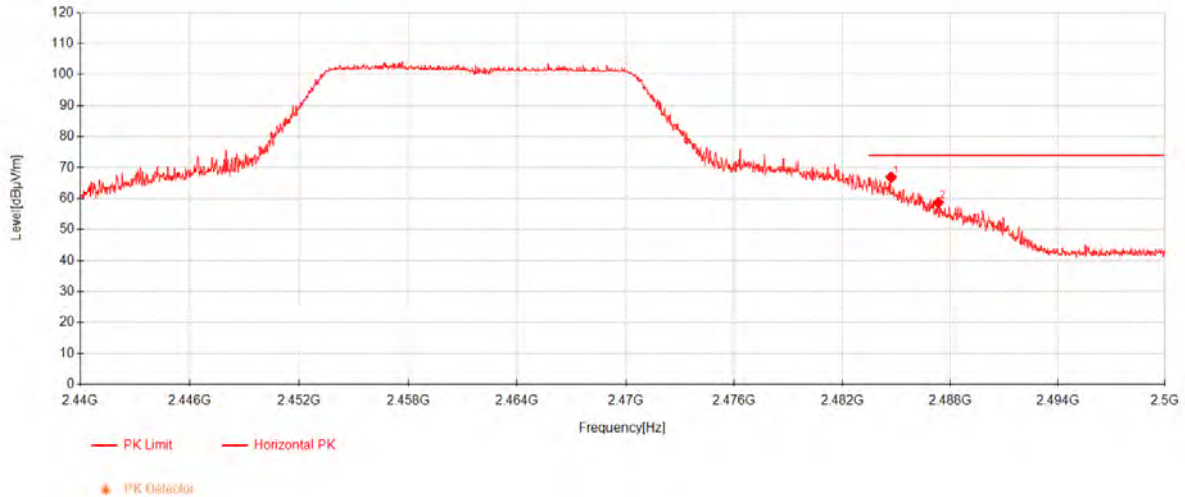


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1	2484.715	62.94	27.87	-23.95	66.86	74.00	7.14	142	105	Horizontal
2	2487.34	54.72	27.87	-23.94	58.66	74.00	15.34	142	105	Horizontal

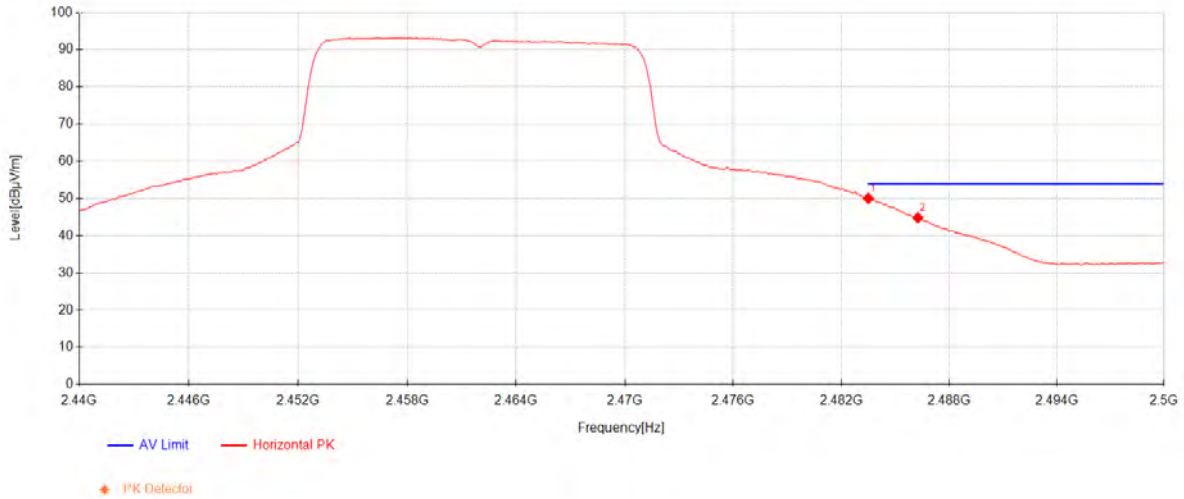


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1	2483.5	46.11	27.87	-23.96	50.02	54.00	3.98	142	105	Horizontal
2	2486.26	40.92	27.87	-23.94	44.85	54.00	9.15	142	105	Horizontal

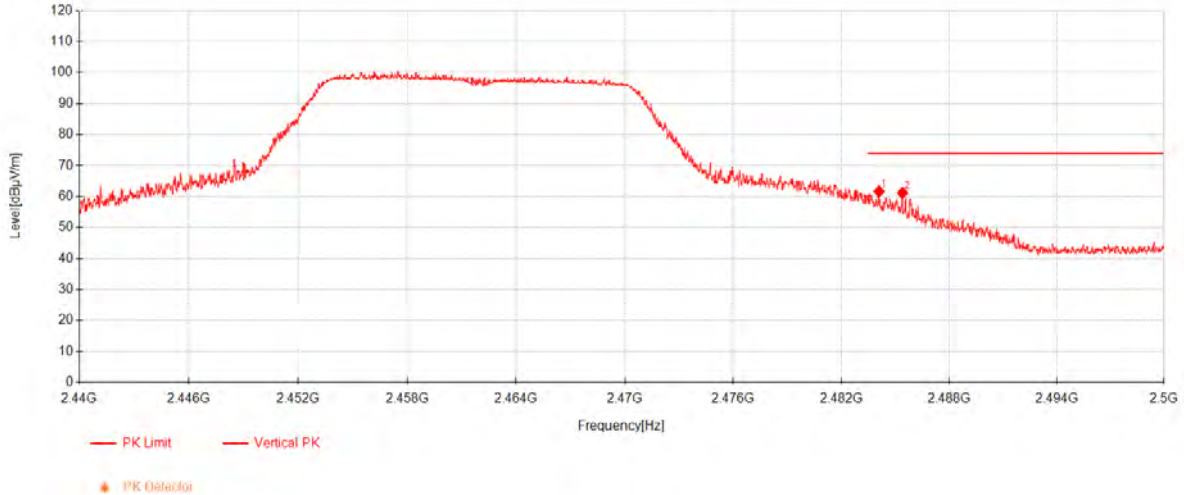


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1	2484.1	57.72	27.87	-23.95	61.63	74.00	12.37	103	62	Vertical
2	2485.405	57.27	27.87	-23.95	61.19	74.00	12.81	103	62	Vertical

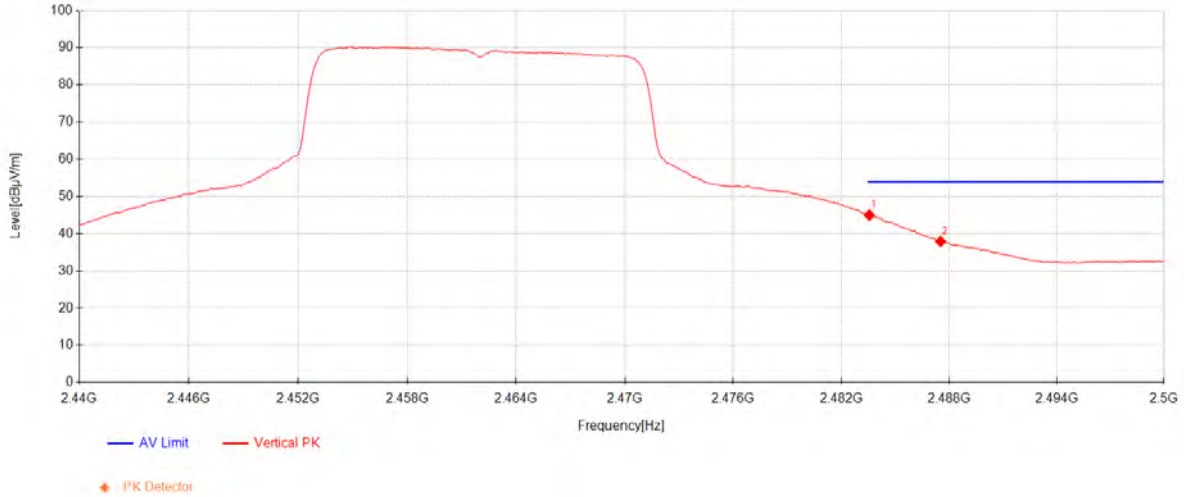


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802.11n20_Channel 11



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2483.56	41.09	27.87	-23.96	45.00	54.00	9.00	103	62	Vertical
2	2487.52	33.98	27.88	-23.94	37.92	54.00	16.08	103	62	Vertical

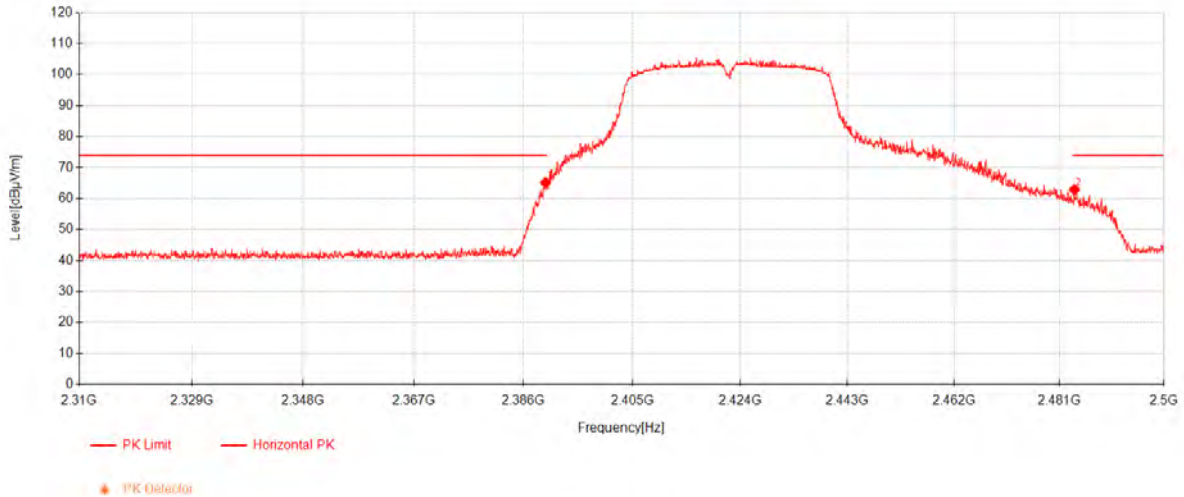


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.8466	61.87	27.68	-24.42	65.13	74.00	8.87	142	181	Horizontal
2	2483.74	58.95	27.87	-23.96	62.86	74.00	11.14	142	181	Horizontal

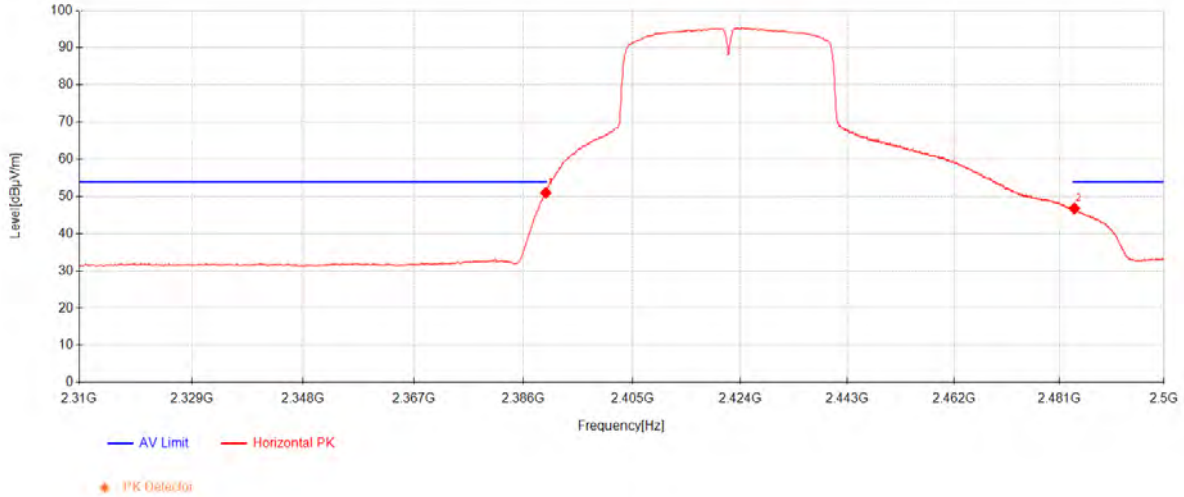


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9	47.73	27.68	-24.42	50.99	54.00	3.01	142	181	Horizontal
2	2483.74	42.89	27.87	-23.96	46.80	54.00	7.20	142	181	Horizontal

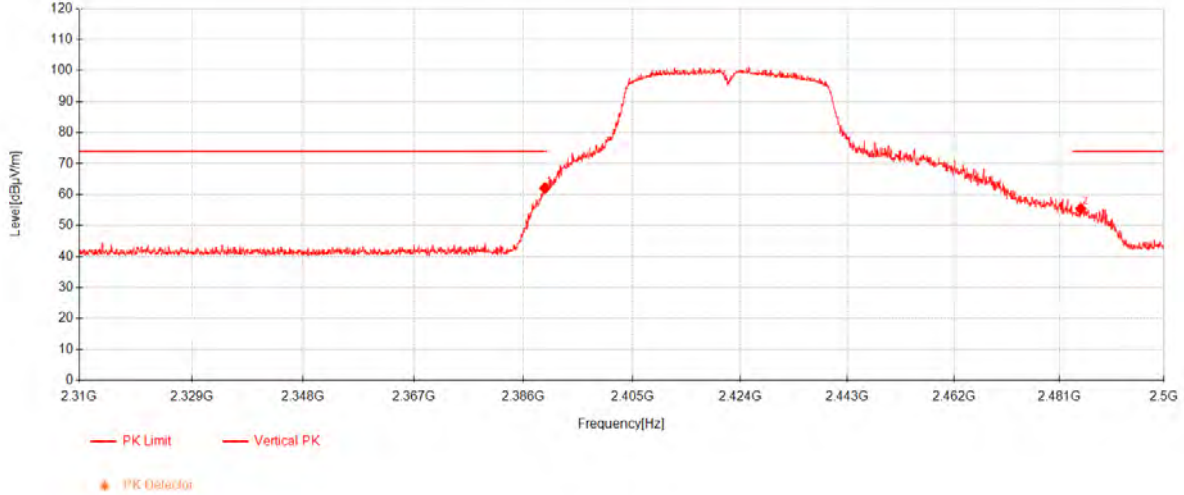


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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.7166	58.77	27.68	-24.42	62.03	74.00	11.97	102	63	Vertical
2	2484.88	51.52	27.87	-23.95	55.44	74.00	18.56	102	63	Vertical



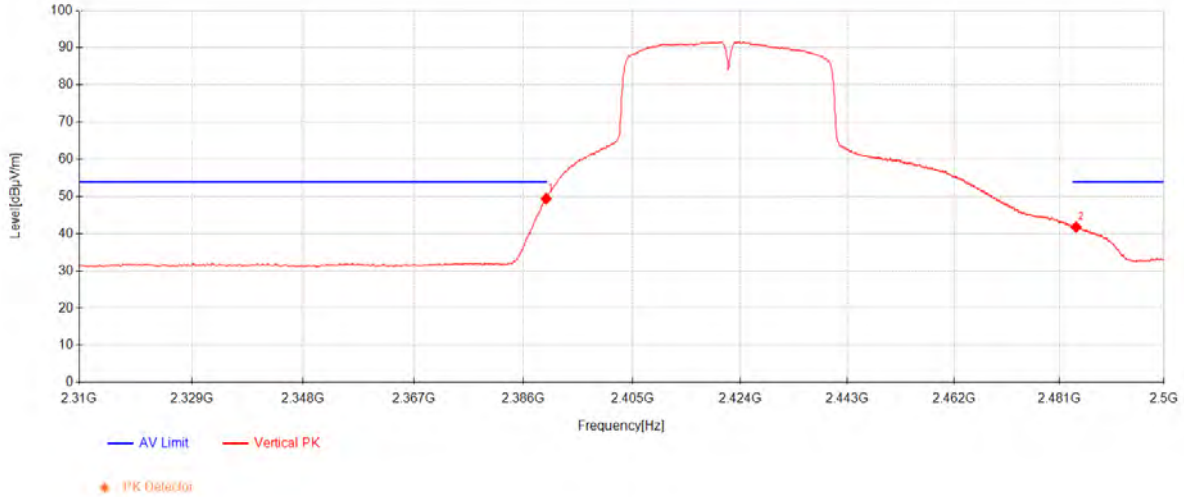
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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.95	46.17	27.68	-24.42	49.43	54.00	4.57	102	63	Vertical
2	2484.04	37.88	27.87	-23.95	41.79	54.00	12.21	102	63	Vertical

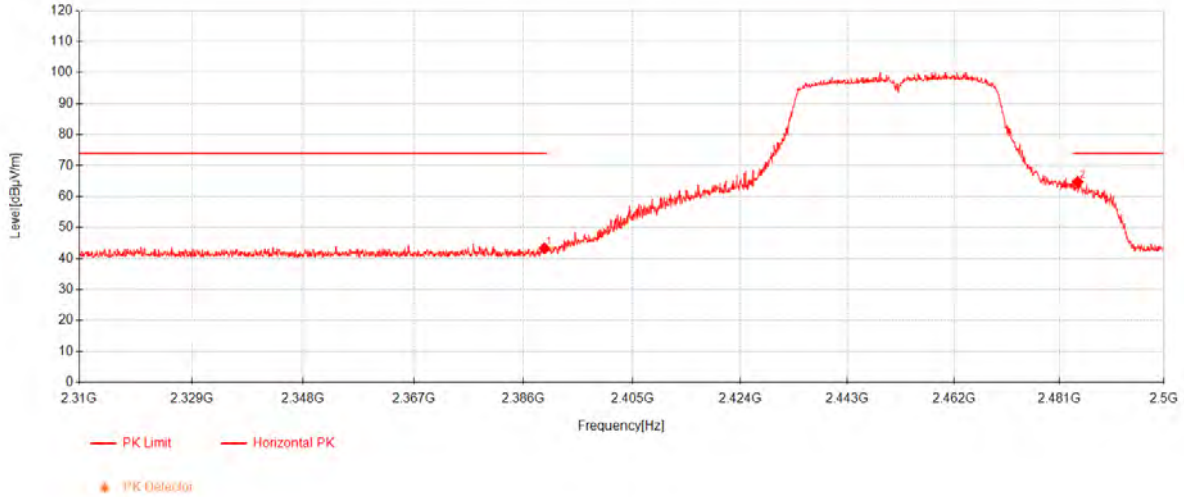


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802.11n40_Channel 09



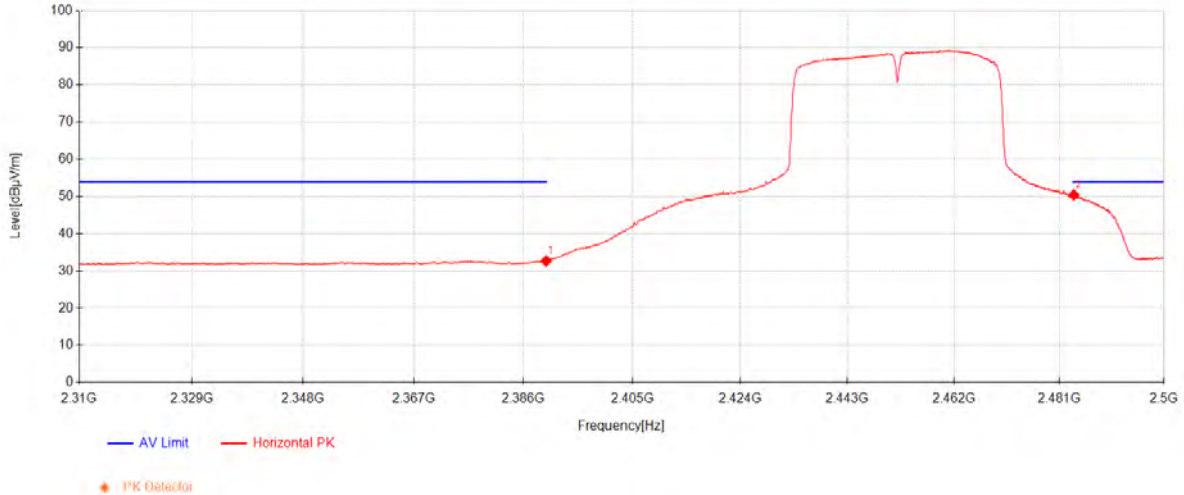
Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6299	40.06	27.68	-24.42	43.32	74.00	30.68	141	97	Horizontal
2	2484.34	60.80	27.87	-23.95	64.72	74.00	9.28	141	97	Horizontal



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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.95	29.42	27.68	-24.42	32.68	54.00	21.32	141	97	Horizontal
2	2483.62	46.49	27.87	-23.96	50.40	54.00	3.60	141	97	Horizontal

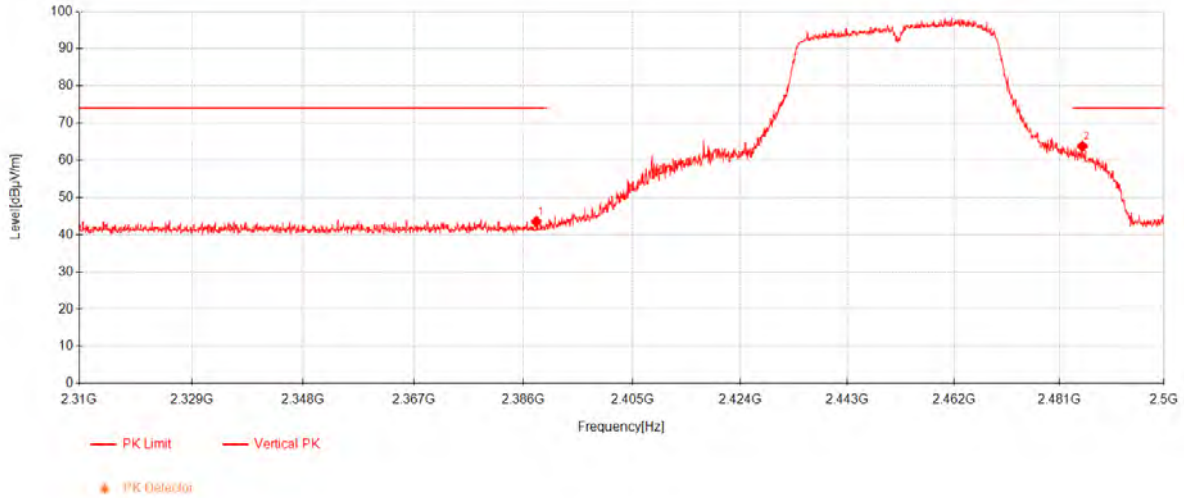


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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2388.2427	40.26	27.68	-24.43	43.51	74.00	30.49	386	85	Vertical
2	2485.18	59.84	27.87	-23.95	63.76	74.00	10.24	386	85	Vertical



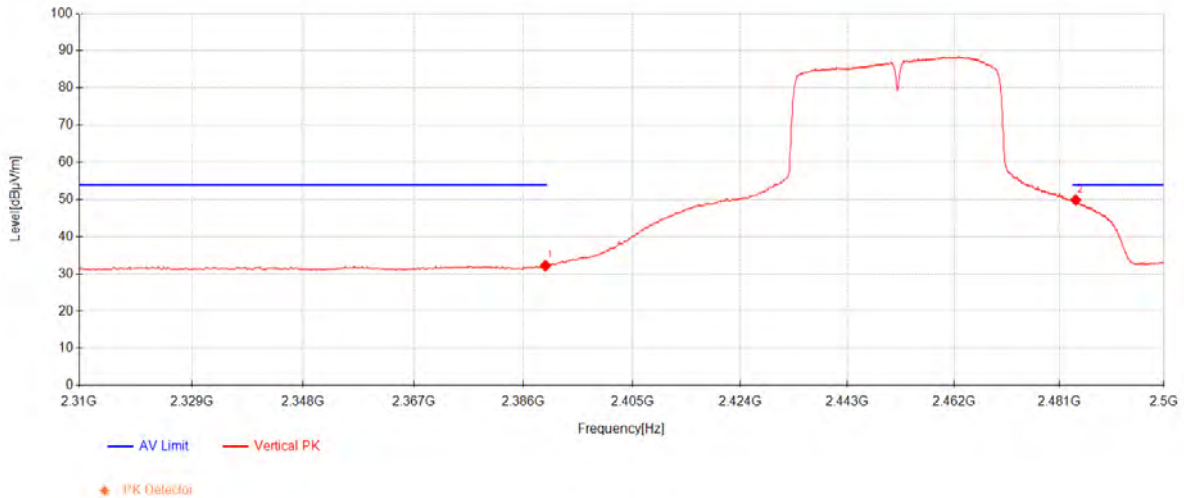
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802.11n40_Channel 09



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.82	28.95	27.68	-24.42	32.21	54.00	21.79	386	85	Vertical
2	2483.98	45.94	27.87	-23.95	49.85	54.00	4.15	386	85	Vertical

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain.

The basic equation with a sample calculation is as follows:

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

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

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

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

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



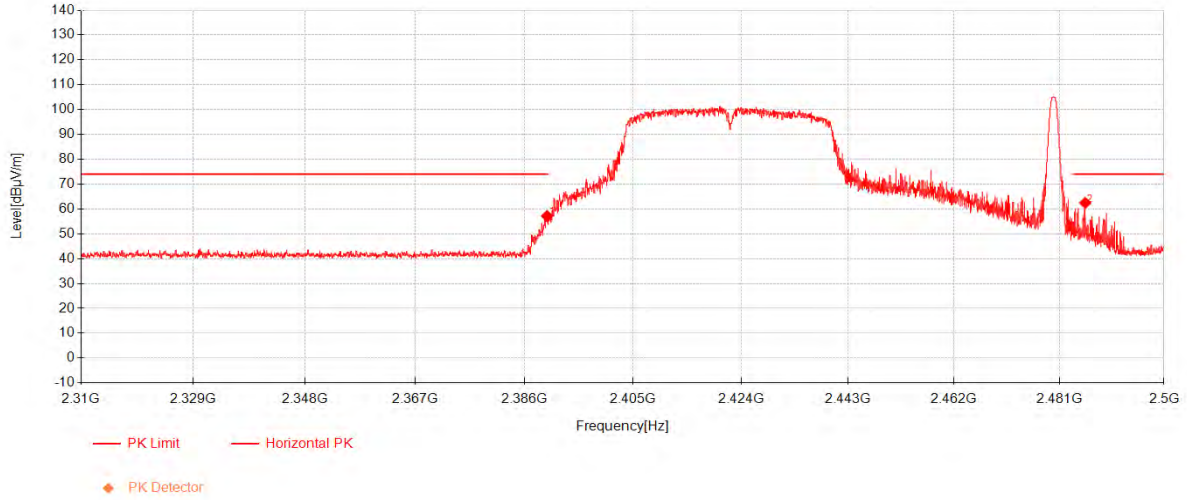
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Simultaneous TX emissions

802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.9175	53.94	27.68	-24.42	57.20	74.00	16.80	107	51	Horizontal
2	2485.66	58.49	27.87	-23.95	62.42	74.00	11.58	107	51	Horizontal



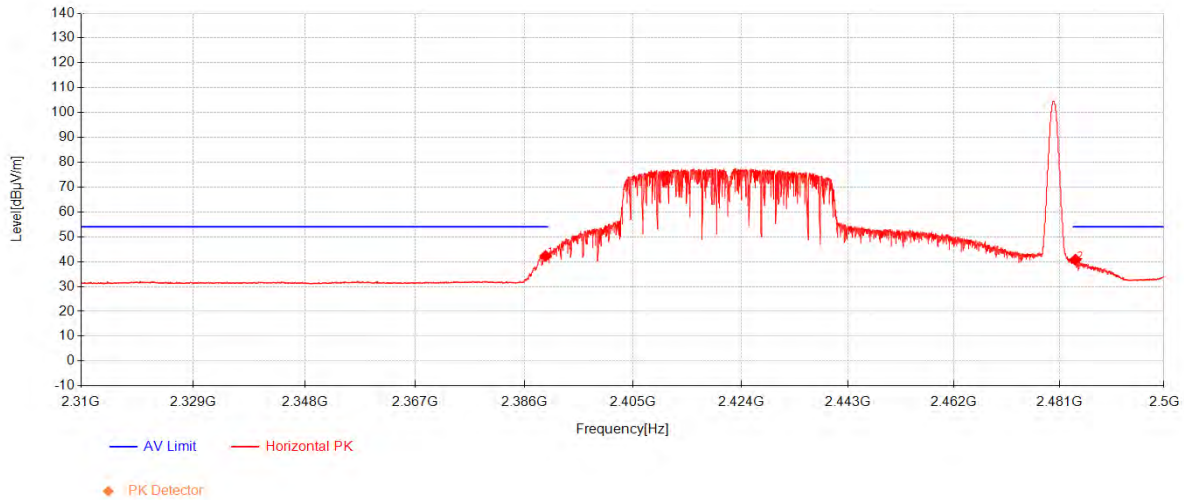
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.6575	39.01	27.68	-24.42	42.27	54.00	11.73	107	51	Horizontal
2	2483.875	36.86	27.87	-23.96	40.77	54.00	13.23	107	51	Horizontal



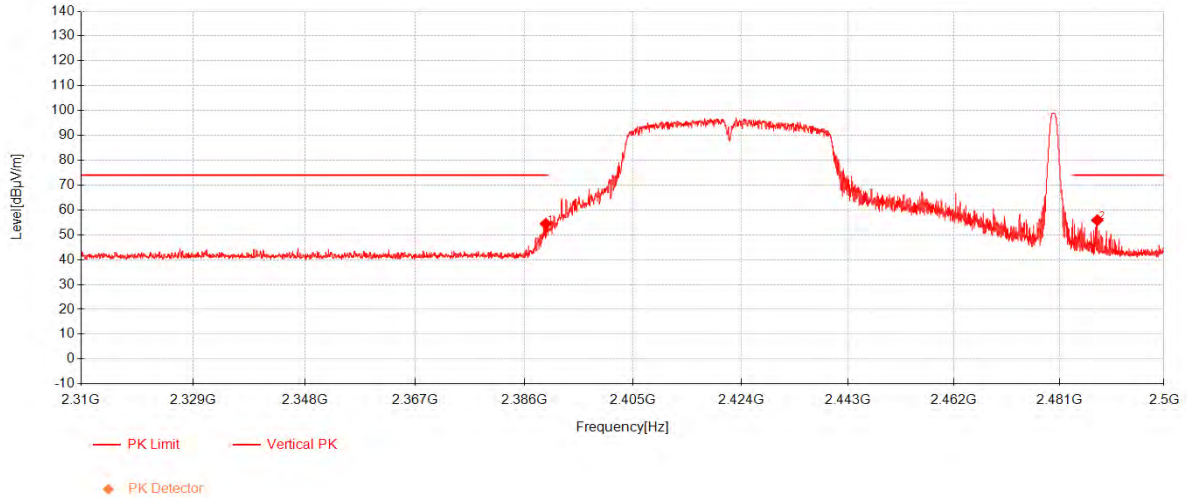
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802.11n40_Channel 03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2389.69	51.19	27.68	-24.42	54.45	74.00	19.55	143	58	Vertical
2	2487.85	51.94	27.88	-23.93	55.88	74.00	18.12	143	58	Vertical

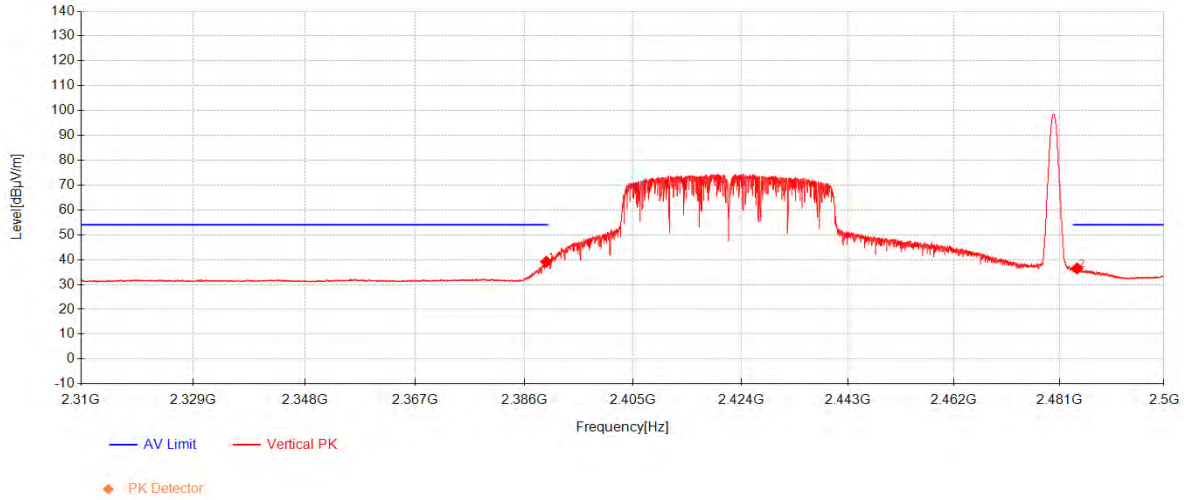


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1	2389.7875	35.92	27.68	-24.42	39.18	54.00	14.82	143	58	Vertical
2	2484.175	32.59	27.87	-23.95	36.50	54.00	17.50	143	58	Vertical

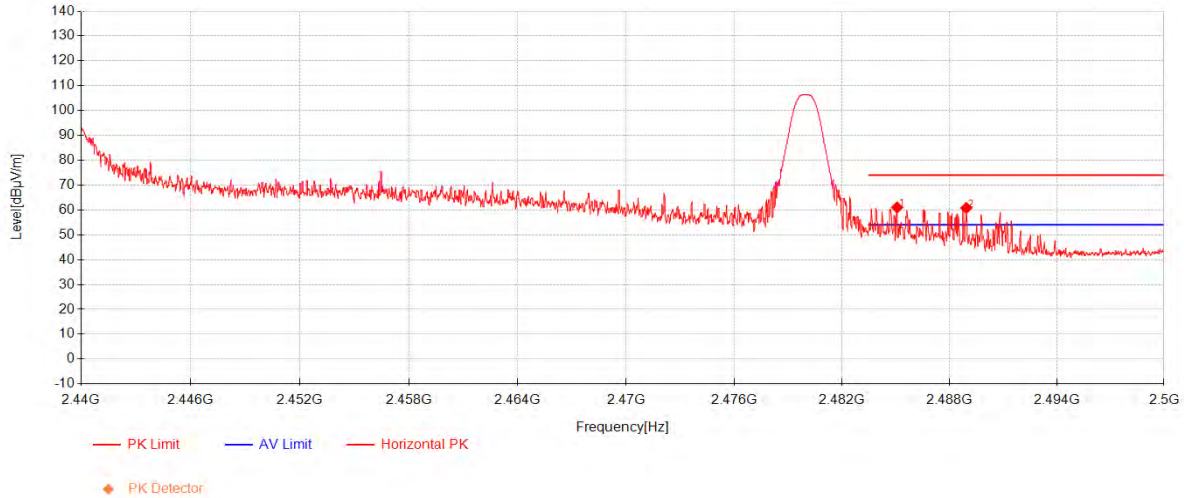


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802.GFSK_Channel 78



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2485.075	57.09	27.87	-23.95	61.01	74.00	12.99	102	56	Horizontal
2	2485.075	-	-	-	36.25	54.00	17.75	-	-	-
3	2488.9363	56.86	27.88	-23.93	60.81	74.00	13.19	102	56	Horizontal
4	2488.9363	-	-	-	36.05	54.00	17.95	-	-	-



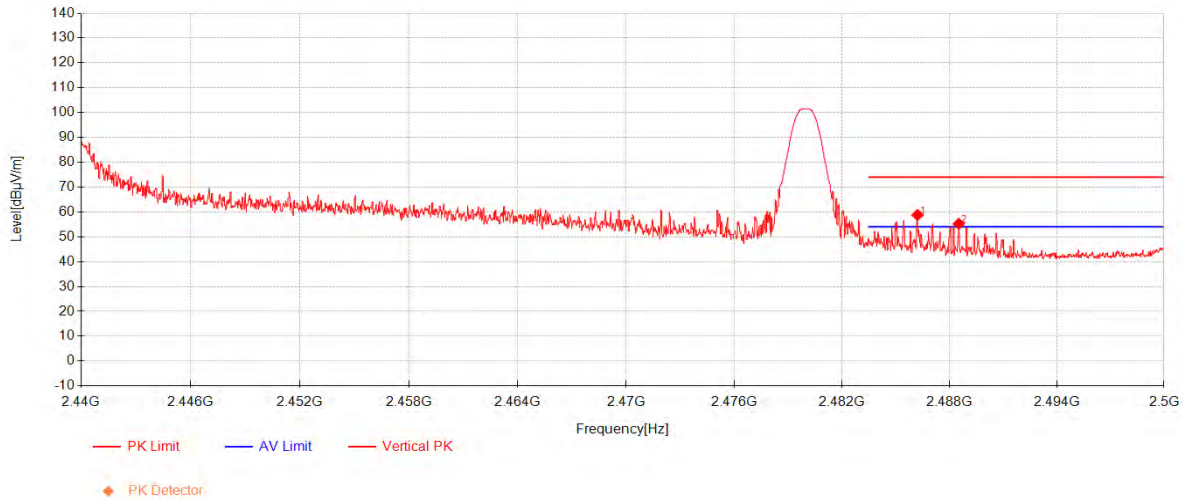
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Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2486.2154	54.86	27.87	-23.94	58.79	74.00	15.21	142	48	Vertical
2	2486.2154	-	-	-	34.03	54.00	19.97	-	-	-
3	2488.5162	51.29	27.88	-23.93	55.24	74.00	18.76	142	48	Vertical
4	2488.5162	-	-	-	30.48	54.00	23.52	-	-	-

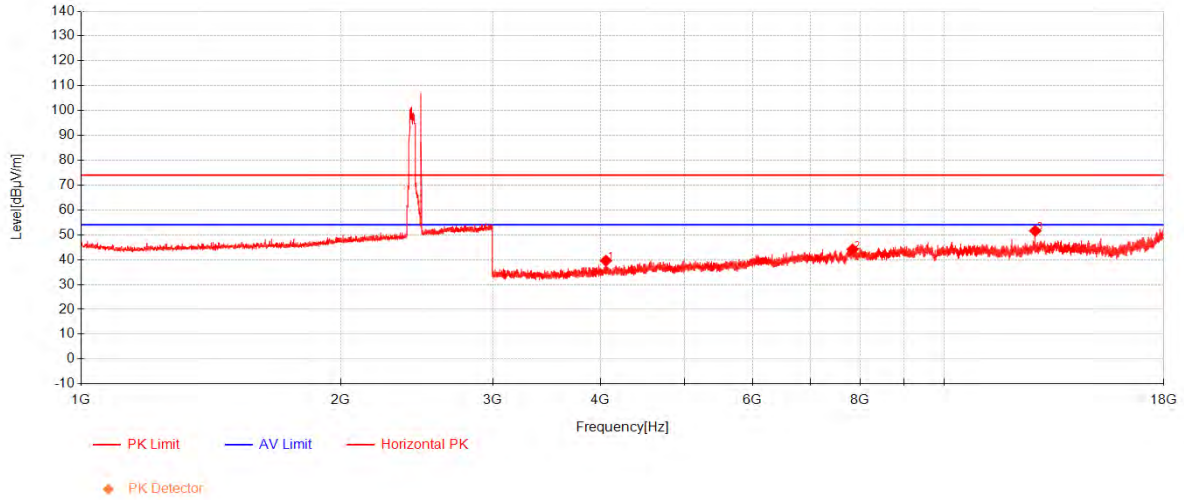


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802.GFSK-CH78&11n40-CH03



Data List										
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4058.5	54.08	30.69	-45.19	39.59	74.00	34.41	102	179	Horizontal
2	7837.5	47.60	37.18	-40.64	44.14	74.00	29.86	265	198	Horizontal
3	12762	47.33	39.36	-35.10	51.59	74.00	22.41	241	8	Horizontal

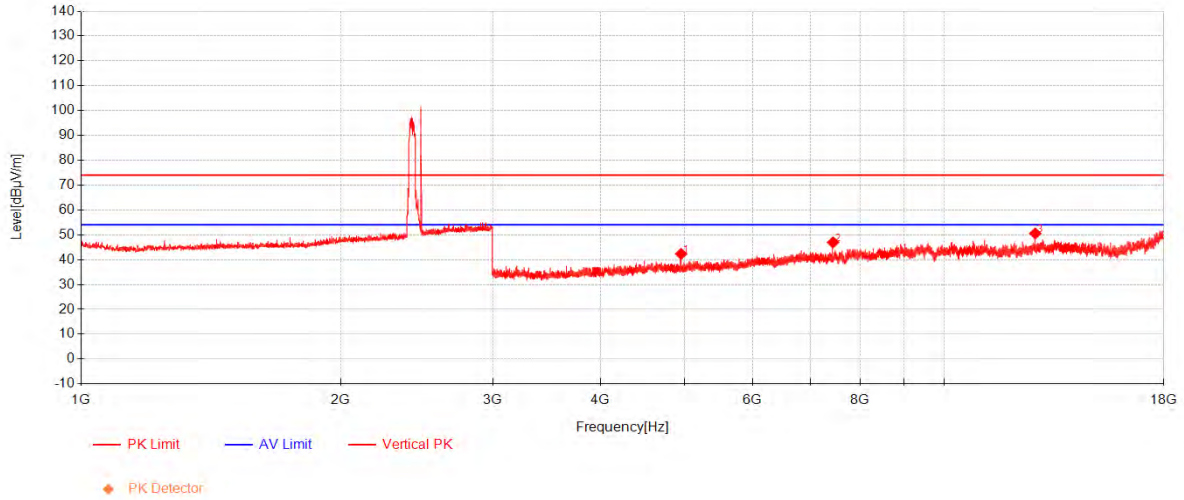


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1	4960	54.73	32.50	-44.92	42.32	74.00	31.68	102	181	Vertical
2	7440	52.32	36.46	-41.83	46.96	74.00	27.04	265	344	Vertical
3	12762	46.27	39.36	-35.10	50.53	74.00	23.47	241	357	Vertical

---End of Report---



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